NOAA Data Report ERL PMEL-66

CTD MEASUREMENTS DURING 1997 AND 1998 AS PART OF THE GLOBAL OCEAN-ATMOSPHERE-LAND SYSTEM (GOALS)/PAN AMERICAN CLIMATE STUDIES (PACS)

VOLUME I VOLUME II (click)

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Seattle, Washington
January 1999

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Contribution No. 2050 from NOAA/Pacific Marine Environmental Laboratory

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CTD Measurements During 1997 and 1998 as Part of the Global Ocean-Atmosphere-Land System (GOALS)/Pan American Climate Studies (PACS)

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Abstract. During 1997 and 1998, 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) and Equatorial Pacific Ocean Climate Studies (EPOCS). Summaries of Sea-Bird CTD measurements and hydrographic data acquired on fifteen 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 season-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 8°N and 8°S along each meridional transect, (2) deep casts at mooring sites to a depth within 200 m of the bottom, (3) 1000 m casts every one-half degree of latitude between 3°N and 3°S, and

(4) 1000 m casts every degree between 8°N and 11°N along the ship's track-line to/from port. Physical underway operations include 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 fifteen cruises during 1997 and 1998 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–o show the cruise track and CTD station locations for each cruise. Tables 1a–o 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 (97 or 98), 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. Water samples are collected on the upcast using an electronically fired rosette sampler and analyzed for salinity using an autosalinometer (see section 4). Water sample salinity is used to calibrate CTD conducitivity (see section 6).

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.

Pre-cruise sensor calibrations are performed at Sea-Bird Electronics, Inc. in Bellevue, Washington. 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:

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

where g, h, i, j, *ctcor*, and *cpcor* are calibration coefficients, f is the instrument frequency (kHz), t is the water temperature (°C), and p is the water pressure (db). 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 ±0.004°C per year; and resolution of 0.0003°C at 24 Hz. The SBE thermometer has a fast response time of 0.070 seconds.

Pre-cruise sensor calibrations are performed at Sea-Bird Electronics, Inc. Temperature (IPTS-90) is computed according to

$$T(^\circ\mathrm{C}) = 1/\{g + h[\ln(f0/f)] + i[\ln^2(f0/f)] + j[\ln^3(f0/f)]\} - 273.15$$

where g, h, i, j, and $f0$ 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/°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.

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.

Water samples are collected during the upcast using an SBE rosette. Five or 10-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, with an accuracy of 0.003.

5. PC 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.

ROSSUM creates a summary of the bottle data. Pressure, temperature, and conductivity 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. CELLTM uses a recursive filter to remove conductivity cell thermal mass effects from the measured conductivity. Typical values are used for thermal anomaly amplitude (alpha = 0.03) and the time constant (1/beta = 9.0). 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. 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. BINAVG averages the data into 1 db pressure bins starting at 1 db (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

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.

For *Ka'imimoana* cruises beginning with GP398, adjustments were made to the bias of the thermistors using a linear fit of the sensor drift history from calibration data projected to the midpoint of each cruise. 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 0.6e–03°C. This results in errors of no more than ±0.15e–03°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.

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.

Due to power outages during GP898 salinity analyses for stations 13–17, bad bottle salinities for stations 14–17 and some of station 13 were omitted from the calibration data.

7. VAX Processing

Following the SEASOFT processing modules, PMEL Fortran program EPSBE applies post-cruise calibrations to conductivity and converts the 1-db 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 db and gaps are linearly interpolated such that a record exits every 1 db. 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.

PMEL Fortran program EPICBOMSTR creates individual bottle files in EPIC format for each cast.

8. Data Presentation

The majority of the plots which follow were produced using Plot Plus Scientific Graphics System (Denbo, 1992). Figures 3–47 are potential temperature, salinity, and sigma-theta sections for each meridian. Figures 48–62 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: Jim Davis, Dennis Sweeney, and Jonathan Shannahoff. Linda Mangum supervised CTD operations on some cruises and completed preliminary calibrations and processing at sea. This research was supported by NOAA's Office of Global Programs.

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FIGURES AND TABLES

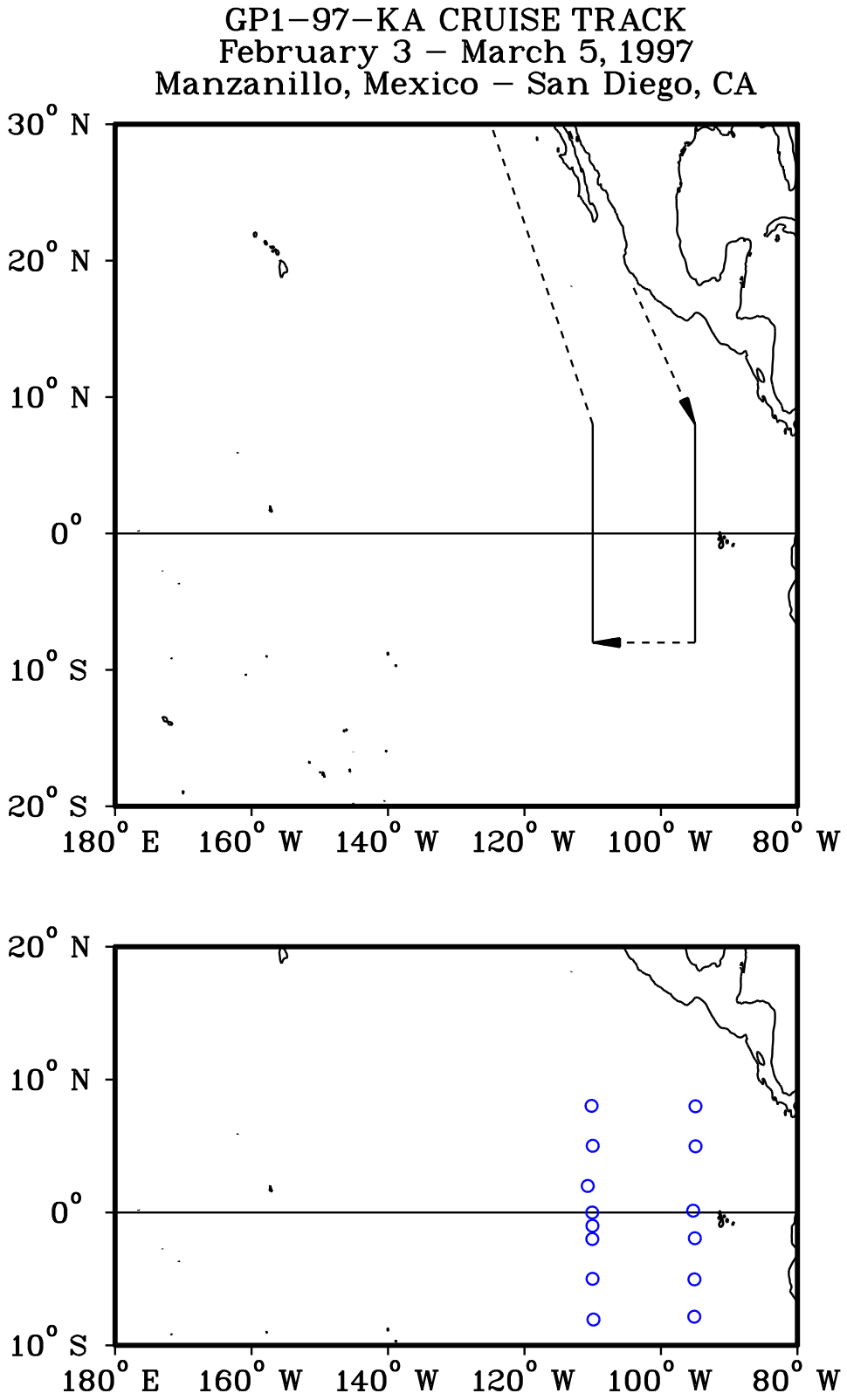

Figure 1a: GP1-97-KA cruise track and station locations.

Table 1a: GP1-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 59.6′N	94° 56.6′W	8 Feb 97	36	67	9	3712	1001
21	4° 58.8′N	94° 56.0′W	8 Feb 97	2353	37	5	3770	1002
31	0° 8.1′N	95° 16.7′W	12 Feb 97	1118	163	11	3330	3004
41	1° 56.3′S	95° 1.9′W	13 Feb 97	1809	135	10	3390	1006
51	5° 2.0′S	95° 5.6′W	14 Feb 97	2126	145	8	3834	1001
61	7° 50.5′S	95° 6.9′W	15 Feb 97	2122	136	14	3982	1001
71	8° 3.4′S	109° 53.2′W	19 Feb 97	1317	115	14	3500	3003
81	4° 59.6′S	110° 1.3′W	20 Feb 97	1520	145	12	3409	501
91	1° 59.9′S	110° 3.6′W	21 Feb 97	1039	106	18	9999	1004
101	1° 0.1′S	110° 2.4′W	21 Feb 97	1851	86	9	3921	501
111	0° 0.1′S	110° 4.3′W	22 Feb 97	928	107	10	3750	3503
121	1° 59.8′N	110° 43.8′W	24 Feb 97	1815	135	13	3750	1002
131	5° 1.1′N	110° 0.0′W	25 Feb 97	2251	48	15	3901	1000
141	8° 1.5′N	110° 10.2′W	26 Feb 97	1844	44	14	4266	1000

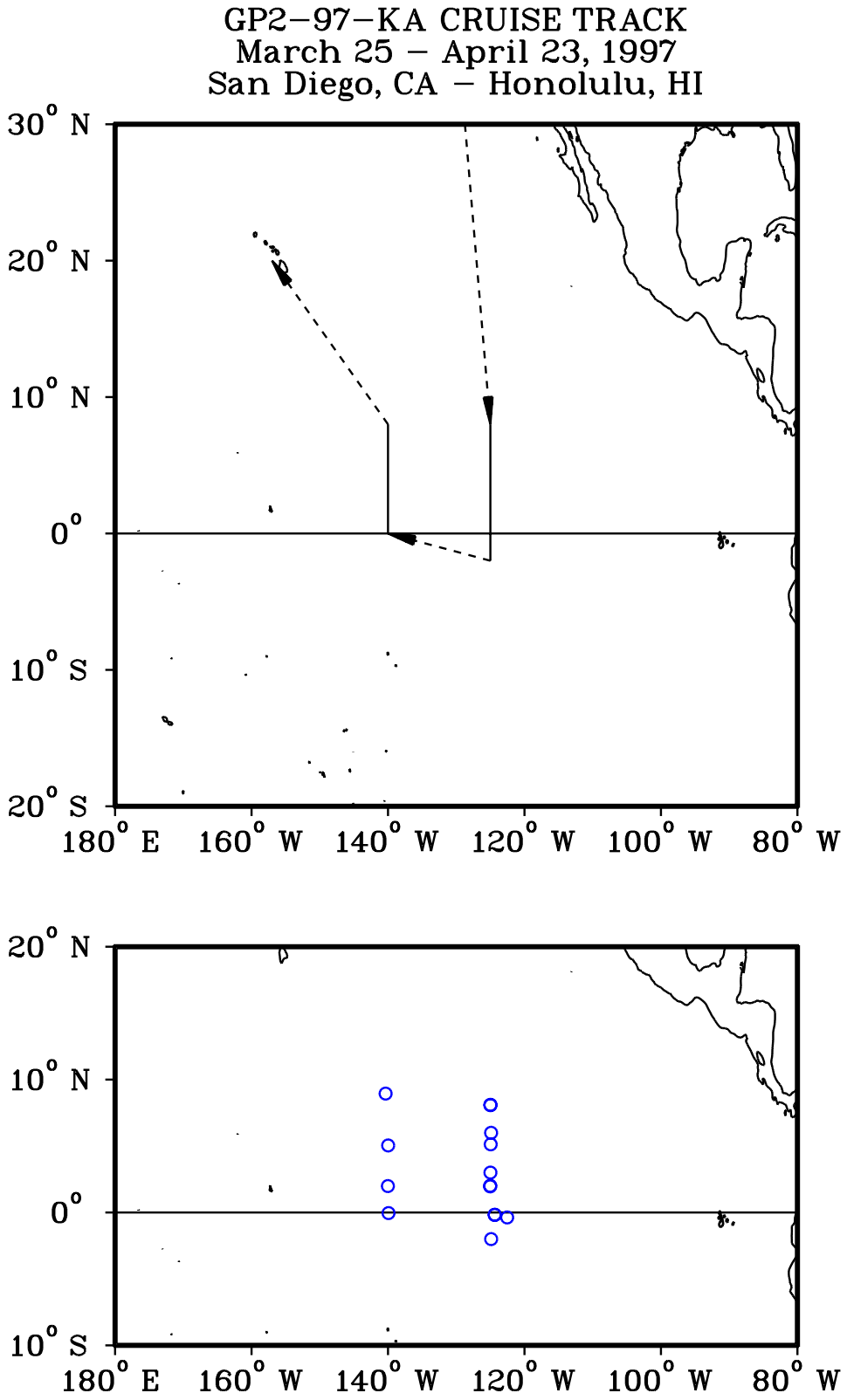

Figure 1b: GP2-97-KA cruise track and station locations.

Table 1b: GP2-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 6.0′N	124° 59.7′W	2 APR 97	20	123	14	4507	1007
12	8° 4.7′N	124° 59.6′W	2 APR 97	422	80	4	3775	502
21	5° 59.8′N	124° 53.7′W	2 APR 97	1834	175	9	4997	1004
31	5° 7.7′N	124° 57.0′W	3 APR 97	631	170	7	5010	1003
41	3° 0.2′N	124° 59.5′W	3 APR 97	2013	172	5	5089	1002
51	2° 0.5′N	125° 1.5′W	4 APR 97	916	259	1	4669	4002
61	1° 57.9′N	125° 1.5′W	4 APR 97	2204	124	7	4608	501
71	0° 22.5′S	122° 32.3′W	6 APR 97	2119	53	9	5040	502
81	0° 10.6′S	124° 21.9′W	7 APR 97	1119	64	9	4730	4001
82	0° 10.7′S	124° 21.4′W	8 APR 97	2241	81	9	5220	1002
91	2° 0.2′S	124° 53.2′W	9 APR 97	1445	81	10	4730	1004
101	0° 2.7′S	139° 55.4′W	14 APR 97	758	80	13	4330	3505
111	1° 59.3′N	140° 1.1′W	16 APR 97	429	84	13	4372	1002
121	5° 2.7′N	139° 58.9′W	17 APR 97	323	71	11	4315	502
131	8° 56.8′N	140° 21.2′W	18 APR 97	1251	223	14	5002	1002

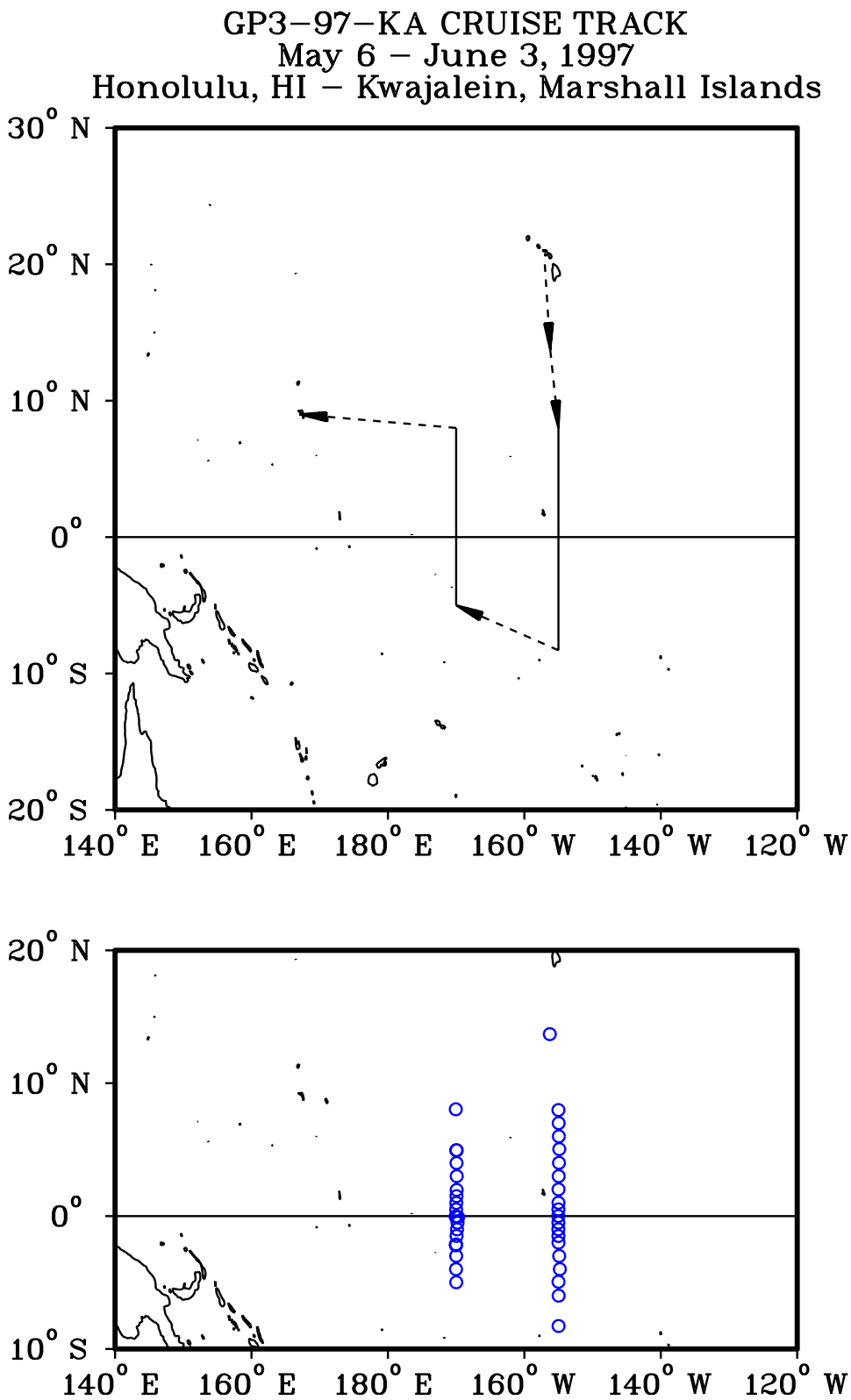

Figure 1c: GP3-97-KA cruise track and station locations.

Table 1c: GP3-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	13° 41.6′N	156° 16.2′W	9 MAY 97	46	55	7	5534	201
21	7° 58.9′N	155° 0.3′W	10 MAY 97	1335	75	17	0	1005
31	6° 59.9′N	154° 58.0′W	10 MAY 97	2047	102	18	5690	1009
41	6° 0.1′N	154° 56.6′W	11 MAY 97	405	88	10	5484	1005
51	5° 2.4′N	154° 53.0′W	11 MAY 97	1312	65	11	4632	3703
61	4° 0.3′N	154° 55.5′W	12 MAY 97	846	20	9	5310	1006
71	3° 0.3′N	154° 58.0′W	12 MAY 97	1545	88	10	4755	1004
81	2° 0.6′N	154° 59.6′W	12 MAY 97	2257	105	12	4698	1002
91	1° 0.2′N	154° 59.9′W	13 MAY 97	1241	115	13	4761	1004
101	0° 30.3′N	155° 0.2′W	13 MAY 97	1648	115	17	4693	1002
111	0° 0.5′N	155° 1.6′W	14 MAY 97	117	129	3	4693	1004
121	0° 29.7′S	155° 0.7′W	14 MAY 97	541	128	9	4909	1006
131	0° 59.4′S	155° 1.0′W	14 MAY 97	943	127	11	4755	1009
141	1° 30.0′S	155° 0.3′W	14 MAY 97	1355	120	14	4884	1007
151	1° 59.9′S	154° 59.8′W	15 MAY 97	404	96	11	4983	1005
161	3° 0.2′S	154° 53.8′W	15 MAY 97	1115	98	15	4909	1003
171	3° 59.7′S	154° 47.8′W	15 MAY 97	1753	21	6	3605	1005
181	4° 56.6′S	154° 59.9′W	16 MAY 97	40	111	9	4632	1006
191	5° 59.4′S	154° 58.3′W	16 MAY 97	818	98	10	5001	1005
201	8° 16.4′S	154° 58.9′W	17 MAY 97	802	102	8	5336	1008
211	4° 59.0′S	169° 59.0′W	21 MAY 97	738	241	4	5351	1004
221	3° 59.8′S	170° 1.2′W	21 MAY 97	1445	194	4	5695	1006
231	3° 0.0′S	169° 59.7′W	21 MAY 97	2110	149	4	5279	1005
241	2° 12.0′S	170° 1.6′W	22 MAY 97	643	174	6	4724	503
251	2° 8.2′S	170° 1.7′W	22 MAY 97	1543	3	6	4886	4006
261	2° 9.3′S	170° 1.6′W	22 MAY 97	2147	68	12	4909	302
271	1° 29.4′S	169° 56.5′W	23 MAY 97	219	183	3	5047	1010
281	1° 0.0′S	169° 52.1′W	23 MAY 97	546	147	2	0	1002
291	0° 30.1′S	169° 47.8′W	23 MAY 97	933	147	2	0	1102
301	0° 5.0′S	169° 42.9′W	23 MAY 97	1540	84	6	5279	3004
311	0° 1.6′S	170° 3.4′W	24 MAY 97	825	20	8	0	1454
321	0° 2.4′S	170° 3.3′W	25 MAY 97	132	136	7	5599	1505
331	0° 30.1′N	170° 0.0′W	25 MAY 97	610	60	14	5449	1003
341	0° 59.6′N	169° 58.5′W	25 MAY 97	1010	56	12	5413	1005
351	1° 30.2′N	169° 57.1′W	25 MAY 97	1406	50	10	5569	1004
361	1° 58.0′N	169° 55.5′W	25 MAY 97	1746	80	8	5355	1001
371	3° 0.3′N	169° 54.9′W	26 MAY 97	249	156	7	5496	1003
381	3° 59.5′N	169° 56.8′W	26 MAY 97	930	33	5	5713	1005
391	4° 56.8′N	169° 55.0′W	26 MAY 97	1556	116	8	5800	1004
401	4° 57.6′N	169° 58.7′W	27 MAY 97	250	103	4	5776	503
411	8° 2.3′N	170° 3.3′W	27 MAY 97	2340	60	12	5493	4003

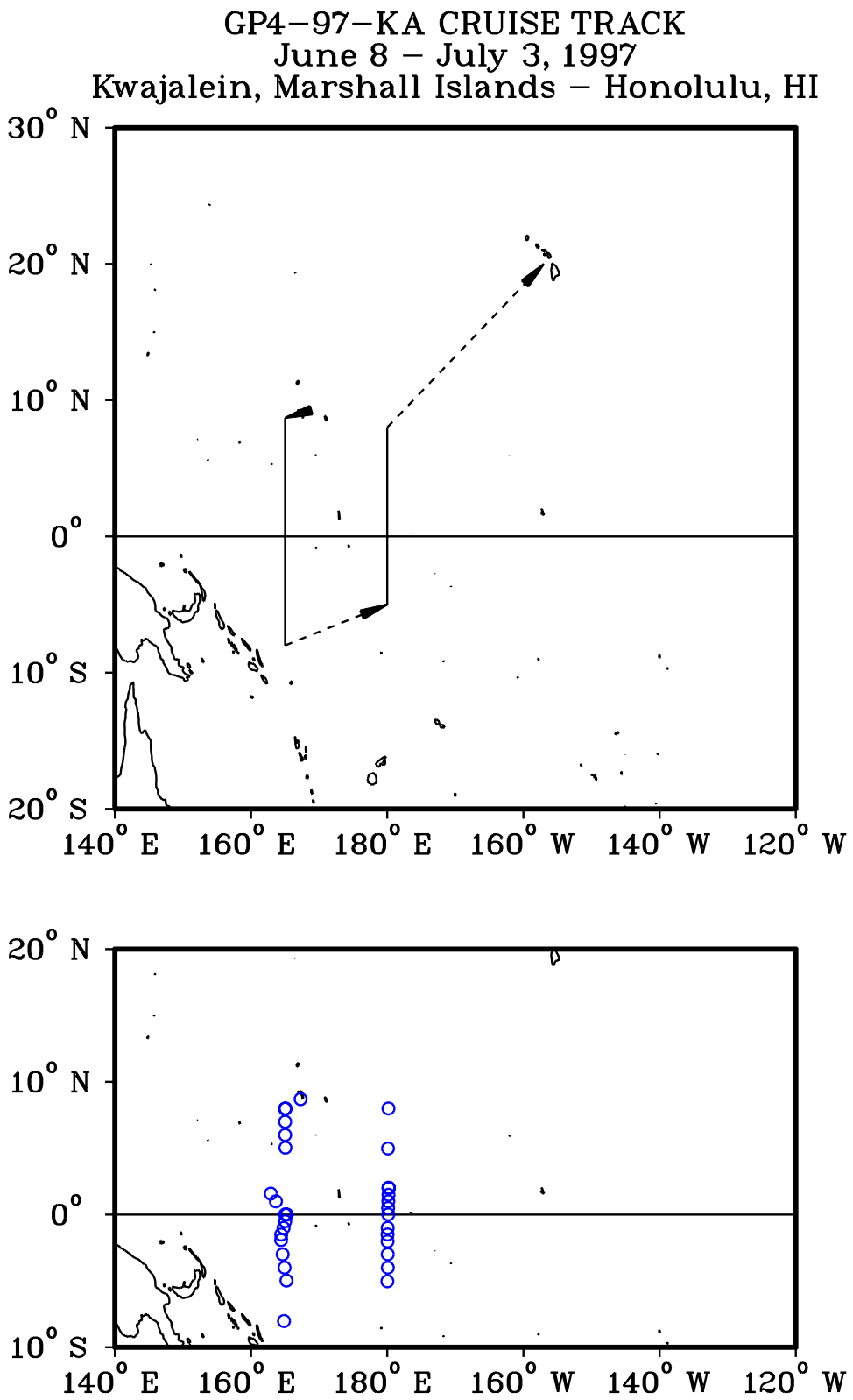

Figure 1d: GP4-97-KA cruise track and station locations.

Table 1d: GP4-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 42.0′N	167° 16.3′E	8 JUN 97	1328	23	8	0	4004
21	7° 58.3′N	164° 58.6′E	9 JUN 97	1014	70	1	5183	3005
22	7° 59.6′N	165° 4.3′E	9 JUN 97	2342	50	6	5210	1006
31	6° 59.9′N	165° 0.2′E	10 JUN 97	525	61	3	5121	1003
41	6° 0.0′N	165° 0.0′E	10 JUN 97	1153	29	3	4998	1001
51	5° 2.5′N	165° 2.5′E	11 JUN 97	401	131	3	4786	1005
61	1° 34.7′N	162° 53.6′E	12 JUN 97	852	290	10	4254	1002
71	0° 59.9′N	163° 39.3′E	12 JUN 97	1458	294	11	4295	1006
81	0° 0.3′N	165° 15.3′E	13 JUN 97	1008	292	16	4387	3004
91	0° 0.6′N	165° 0.5′E	14 JUN 97	122	191	9	4387	1003
101	0° 30.2′S	165° 0.6′E	14 JUN 97	540	168	6	4417	1008
111	1° 0.3′S	164° 46.6′E	14 JUN 97	1016	174	7	4387	1003
121	1° 30.2′S	164° 25.2′E	14 JUN 97	205	168	9	4306	1002
131	1° 54.9′S	164° 25.0′E	15 JUN 97	402	172	17	4437	1005
141	3° 0.0′S	164° 38.2′E	15 JUN 97	1144	169	12	4203	1001
151	4° 0.0′S	164° 55.1′E	15 JUN 97	1902	190	6	3807	1004
161	4° 58.5′S	165° 12.0′E	16 JUN 97	230	165	8	2539	1004
171	8° 1.3′S	164° 50.2′E	17 JUN 97	348	114	4	3899	1004
181	5° 1.9′S	179° 59.0′W	22 JUN 97	506	263	3	5973	1005
191	4° 0.1′S	179° 54.9′W	22 JUN 97	1242	255	13	5744	1001
201	2° 59.6′S	179° 55.6′W	22 JUN 97	1943	258	12	5063	1003
211	2° 1.3′S	179° 57.3′W	23 JUN 97	225	189	4	0	1004
221	1° 30.0′S	179° 57.3′W	23 JUN 97	651	242	7	5238	1006
231	1° 0.3′S	179° 56.2′W	23 JUN 97	1045	226	5	0	1003
242	0° 0.9′N	179° 50.8′W	23 JUN 97	2347	196	4	5403	1005
251	0° 29.7′N	179° 52.2′W	24 JUN 97	350	253	17	5682	1003
261	0° 59.8′N	179° 50.4′W	24 JUN 97	752	253	17	5734	1004
271	1° 29.5′N	179° 48.5′W	24 JUN 97	1150	130	2	5558	1002
281	2° 1.2′N	179° 47.6′W	24 JUN 97	1622	200	6	5484	1334
282	1° 59.2′N	179° 47.4′W	24 JUN 97	1730	206	9	5434	1003
283	2° 0.2′N	179° 46.9′W	25 JUN 97	328	143	3	5486	502
291	4° 58.8′N	179° 53.4′W	26 JUN 97	1005	95	1	5514	1003
301	7° 59.8′N	179° 49.0′W	27 JUN 97	629	191	2	5918	460

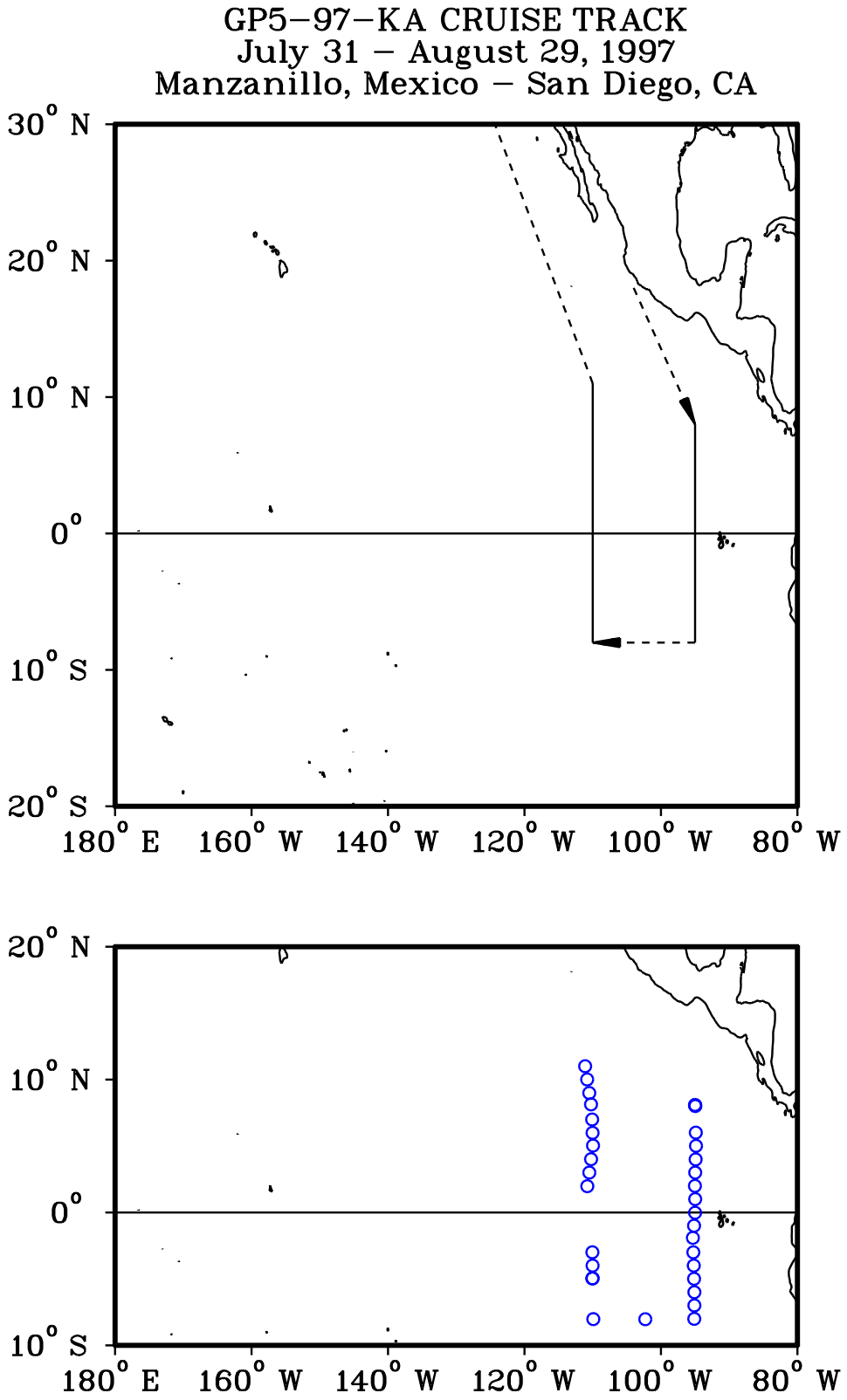

Figure 1e: GP5-97-KA cruise track and station locations.

Table 1e: GP5-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 5.7′N	95° 0.4′W	5 AUG 97	316	98	4	3642	3338
12	8° 0.6′N	94° 57.8′W	5 AUG 97	2245	75	12	3682	1397
21	6° 0.6′N	94° 53.5′W	6 AUG 97	1228	270	4	3007	1103
31	5° 0.7′N	94° 51.9′W	6 AUG 97	2057	159	5	3530	1501
41	3° 59.7′N	94° 54.9′W	7 AUG 97	408	187	3	3198	1302
51	3° 0.3′N	94° 58.8′W	7 AUG 97	1122	150	9	2691	1003
61	2° 0.0′N	95° 1.3′W	7 AUG 97	2317	183	16	2867	1503
71	1° 0.3′N	94° 58.9′W	8 AUG 97	724	174	10	3117	1010
81	0° 1.2′S	94° 59.8′W	9 AUG 97	201	184	9	3337	1003
91	0° 59.8′S	95° 9.0′W	9 AUG 97	915	145	12	3319	916
101	1° 54.6′S	95° 19.3′W	9 AUG 97	1711	173	8	3397	1004
111	2° 59.9′S	95° 15.3′W	10 AUG 97	134	142	8	3652	1003
121	3° 59.8′S	95° 11.5′W	10 AUG 97	835	161	12	3047	1002
131	4° 59.5′S	95° 9.0′W	10 AUG 97	1600	100	6	3815	1004
141	6° 0.0′S	95° 6.1′W	10 AUG 97	2300	115	8	3888	1004
151	6° 59.8′S	95° 6.1′W	11 AUG 97	554	168	10	3846	1003
161	8° 0.3′S	95° 7.1′W	12 AUG 97	400	144	12	3943	1004
171	8° 2.0′S	102° 17.7′W	13 AUG 97	2019	127	13	4138	502
181	8° 1.5′S	109° 54.9′W	16 AUG 97	358	103	17	3500	168
191	4° 58.0′S	110° 3.8′W	17 AUG 97	342	111	18	3458	338
202	4° 57.4′S	110° 0.3′W	17 AUG 97	1829	92	14	3470	1004
211	3° 59.8′S	110° 1.3′W	18 AUG 97	201	122	17	3667	502
221	2° 59.7′S	110° 3.1′W	18 AUG 97	952	135	17	3758	1005
231	1° 58.7′N	110° 47.5′W	20 AUG 97	1838	149	12	3743	1003
241	3° 0.3′N	110° 29.9′W	21 AUG 97	338	162	10	3910	1004
251	4° 0.6′N	110° 14.4′W	21 AUG 97	1017	174	12	3931	1005
261	5° 2.1′N	109° 57.4′W	21 AUG 97	1738	130	4	4016	1004
271	5° 59.7′N	110° 1.4′W	22 AUG 97	12	144	5	3682	1003
281	6° 59.8′N	110° 5.1′W	22 AUG 97	701	86	1	3530	1003
291	8° 8.1′N	110° 14.9′W	23 AUG 97	349	108	4	4022	1004
301	8° 59.6′N	110° 30.3′W	23 AUG 97	1124	118	6	3743	1002
311	10° 0.6′N	110° 49.0′W	23 AUG 97	1810	92	12	3591	1003
321	11° 0.4′N	111° 6.7′W	24 AUG 97	39	84	13	3349	1002

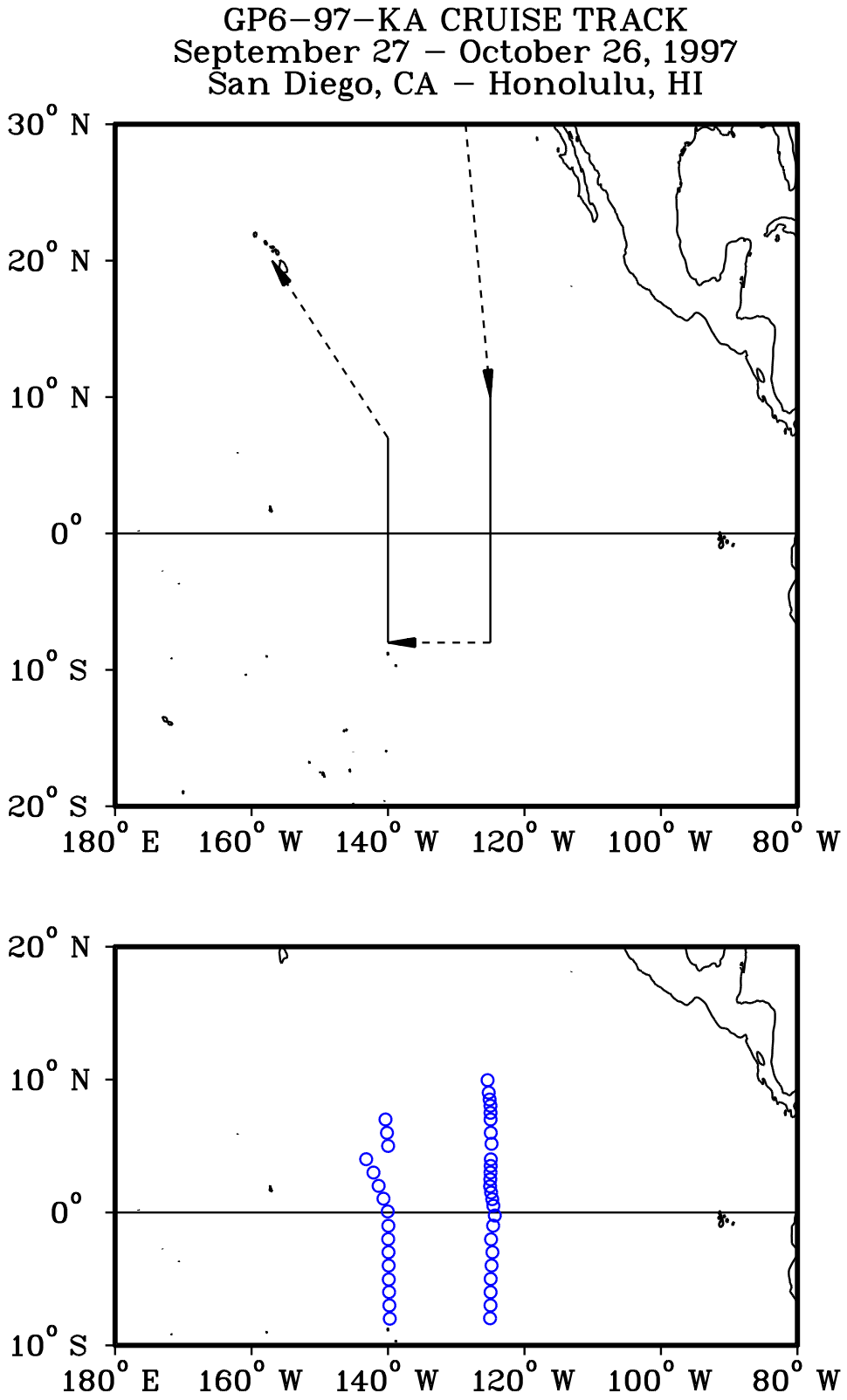

Figure 1f: GP6-97-KA cruise track and station locations.

Table 1f: GP6-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
21	9° 57.4′N	125° 24.7′W	4 OCT 97	104	13	17	4628	1004
31	9° 1.1′N	125° 14.5′W	4 OCT 97	935	17	10	4574	503
41	8° 30.0′N	125° 6.4′W	4 OCT 97	1337	4	11	4512	502
51	8° 1.9′N	124° 59.2′W	5 OCT 97	104	359	1	4634	1002
61	7° 30.0′N	124° 58.7′W	5 OCT 97	515	310	3	4567	1002
71	6° 59.9′N	124° 58.2′W	5 OCT 97	1017	323	4	4628	1005
81	5° 59.9′N	124° 56.6′W	5 OCT 97	1632	315	6	4610	1010
91	5° 10.1′N	124° 50.0′W	6 OCT 97	455	203	6	4126	1012
101	4° 0.0′N	124° 55.9′W	7 OCT 97	439	270	4	4506	1003
111	3° 30.1′N	124° 57.3′W	7 OCT 97	840	267	2	4536	1003
121	3° 0.4′N	124° 59.0′W	7 OCT 97	1248	149	17	4444	1005
131	2° 29.9′N	125° 0.5′W	7 OCT 97	1651	144	14	4536	1003
141	1° 58.2′N	125° 2.5′W	7 OCT 97	2141	142	14	4690	1004
151	1° 30.1′N	124° 53.6′W	8 OCT 97	205	135	10	4751	1003
161	1° 0.1′N	124° 43.6′W	8 OCT 97	618	105	11	4567	1003
171	0° 30.2′N	124° 33.6′W	8 OCT 97	1029	95	11	4618	1005
181	0° 13.8′S	124° 21.0′W	8 OCT 97	1640	82	13	4653	3003
191	0° 59.7′S	124° 35.7′W	9 OCT 97	546	106	13	4634	1004
201	2° 1.3′S	124° 54.2′W	9 OCT 97	1333	104	11	4721	1005
211	2° 59.7′S	124° 41.9′W	10 OCT 97	647	112	18	4573	501
221	3° 59.6′S	124° 49.5′W	10 OCT 97	1335	103	16	4475	505
231	5° 0.1′S	124° 57.2′W	11 OCT 97	519	104	12	4532	1002
241	6° 0.0′S	124° 58.1′W	11 OCT 97	1235	128	15	4536	503
251	6° 59.5′S	124° 59.0′W	11 OCT 97	1933	134	12	4591	503
261	7° 57.7′S	125° 2.8′W	12 OCT 97	619	92	13	4493	1004
271	7° 59.7′S	139° 44.5′W	17 OCT 97	1040	154	12	2840	1005
281	6° 59.8′S	139° 48.0′W	17 OCT 97	1733	79	14	3929	1004
291	5° 59.4′S	139° 50.7′W	18 OCT 97	42	108	11	3639	1003
301	5° 2.5′S	139° 53.3′W	18 OCT 97	804	112	10	4322	3006
311	3° 59.8′S	139° 54.5′W	19 OCT 97	734	122	21	4506	1004
321	2° 59.5′S	139° 55.8′W	19 OCT 97	1509	101	12	4291	1001
331	2° 0.4′S	139° 58.3′W	20 OCT 97	555	116	18	4318	502
341	1° 0.2′S	139° 57.2′W	20 OCT 97	1319	116	15	4242	502
351	0° 4.6′N	140° 2.5′W	21 OCT 97	829	135	13	4315	3008
361	1° 2.3′N	140° 40.0′W	22 OCT 97	747	110	14	4444	503
371	2° 0.1′N	141° 22.6′W	22 OCT 97	1542	131	13	4524	501
381	3° 0.3′N	142° 8.1′W	23 OCT 97	37	137	4	4475	502
391	4° 0.6′N	143° 12.1′W	23 OCT 97	1128	81	3	4506	1000
401	5° 0.5′N	139° 59.3′W	24 OCT 97	1203	216	3	4444	3003
411	5° 59.5′N	140° 9.2′W	25 OCT 97	542	163	8	4506	503
421	7° 0.0′N	140° 22.2′W	25 OCT 97	1328	141	8	5617	510

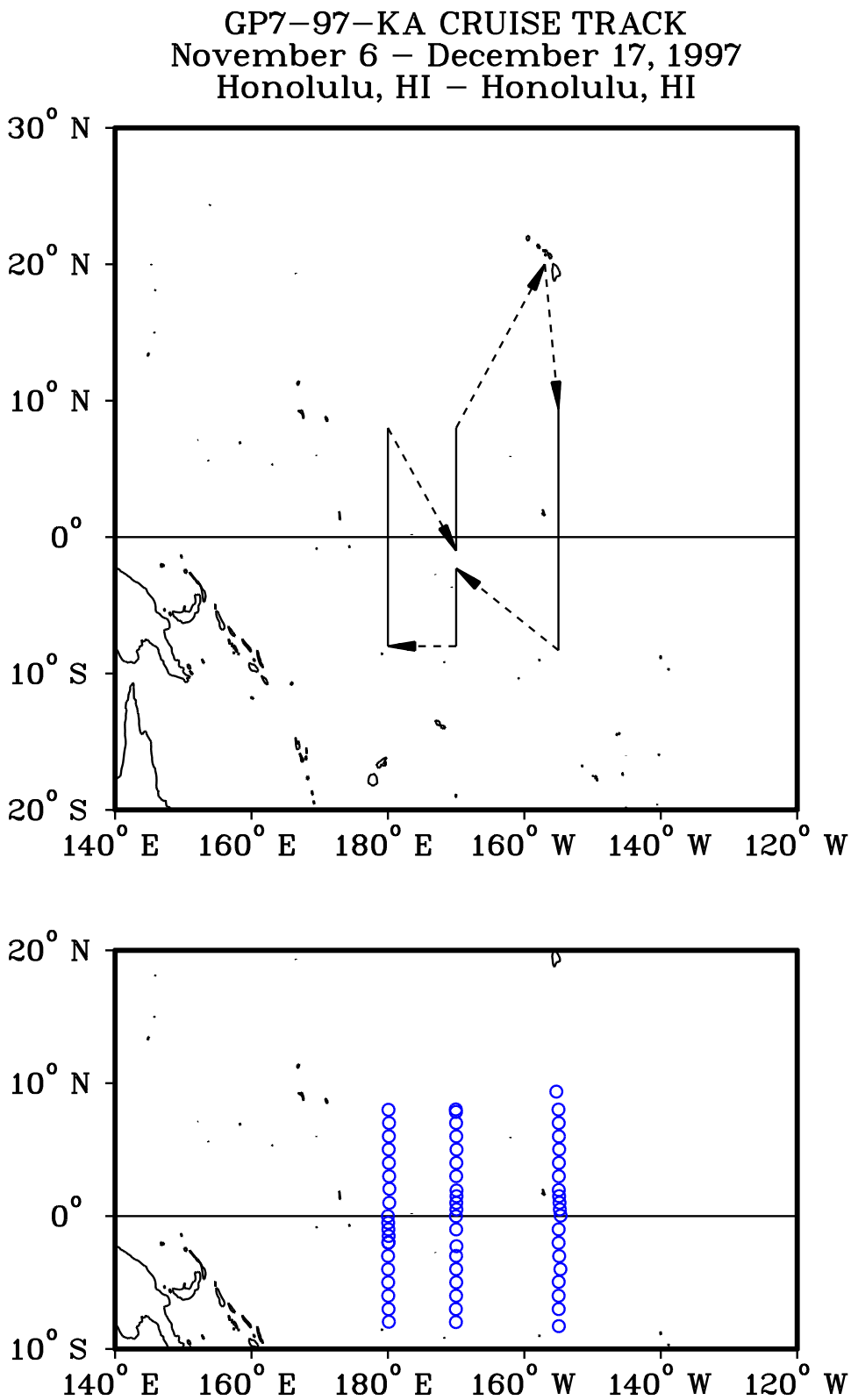

Figure 1g: GP7-97-KA cruise track and station locations.

Table 1g: GP7-97-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	9° 22.0′N	155° 18.7′W	10 NOV 97	51	347	7	5412	505
21	8° 1.0′N	155° 0.0′W	10 NOV 97	1106	349	7	5152	3003
31	7° 0.3′N	154° 57.7′W	11 NOV 97	1006	31	8	4942	1003
41	5° 59.9′N	154° 56.3′W	11 NOV 97	1701	50	7	4837	1002
51	5° 1.4′N	154° 53.9′W	12 NOV 97	12	64	1	4693	1004
61	4° 0.1′N	154° 56.1′W	12 NOV 97	728	90	0	4699	1004
71	2° 59.9′N	154° 56.8′W	12 NOV 97	1415	301	2	4796	1003
81	1° 57.8′N	154° 57.2′W	12 NOV 97	2122	259	2	4663	1004
91	1° 30.0′N	154° 54.6′W	13 NOV 97	114	226	1	4509	1004
101	1° 0.2′N	154° 50.5′W	13 NOV 97	500	82	2	4717	1003
111	0° 30.1′N	154° 47.8′W	13 NOV 97	858	155	2	4642	1004
121	0° 1.8′N	154° 41.1′W	13 NOV 97	1329	153	2	4755	3002
131	0° 59.9′S	154° 58.3′W	14 NOV 97	1151	66	6	0	1003
141	2° 0.9′S	154° 59.0′W	14 NOV 97	1910	237	6	4878	1003
151	3° 0.7′S	154° 53.9′W	15 NOV 97	244	147	1	4878	1004
161	3° 59.9′S	154° 42.8′W	15 NOV 97	1008	137	1	4454	1004
171	4° 57.0′S	154° 58.0′W	15 NOV 97	1655	89	7	5063	1002
181	5° 59.8′S	154° 58.6′W	16 NOV 97	1010	111	7	4945	1005
191	6° 59.9′S	154° 58.0′W	16 NOV 97	1716	91	13	5217	1003
201	8° 16.9′S	154° 56.7′W	17 NOV 97	706	102	9	5347	1005
211	2° 16.0′S	169° 57.5′W	21 NOV 97	1451	254	11	4387	3002
221	2° 59.9′S	170° 0.4′W	22 NOV 97	1215	357	7	5094	1002
231	3° 59.7′S	169° 59.9′W	22 NOV 97	1917	33	3	5626	1005
241	4° 59.2′S	169° 59.1′W	23 NOV 97	251	350	2	5434	1005
251	5° 59.9′S	170° 0.4′W	23 NOV 97	955	170	3	4810	1004
261	7° 0.0′S	170° 2.4′W	23 NOV 97	1647	205	4	5186	1002
271	7° 58.6′S	170° 1.9′W	24 NOV 97	935	133	6	5372	1004
281	7° 57.2′S	179° 52.0′W	27 NOV 97	738	104	7	4730	1004
291	7° 0.1′S	179° 54.7′W	27 NOV 97	1459	230	2	4632	1003
301	5° 59.8′S	179° 57.2′W	27 NOV 97	2203	292	1	4683	1003
311	4° 59.5′S	179° 57.8′W	28 NOV 97	540	237	7	5521	1004
321	4° 0.1′S	179° 58.6′W	28 NOV 97	1240	134	5	5496	1000
331	3° 0.0′S	179° 59.0′W	28 NOV 97	1946	303	8	4816	1005
341	1° 59.4′S	179° 55.8′W	29 NOV 97	725	244	13	5434	1005
342	1° 59.6′S	179° 55.7′W	29 NOV 97	1001	241	11	5403	5010
351	1° 29.9′S	179° 53.7′W	30 NOV 97	227	271	15	5236	1005
361	1° 0.1′S	179° 55.9′W	30 NOV 97	633	274	13	5341	1006
371	0° 30.2′S	179° 57.8′W	30 NOV 97	1046	314	15	5397	1003
381	0° 0.1′S	179° 59.9′W	30 NOV 97	1537	193	7	5248	3004
391	0° 59.9′N	179° 48.1′W	1 DEC 97	1046	315	7	5869	1004
401	2° 2.8′N	179° 47.2′W	1 DEC 97	1939	329	8	5465	3006
411	2° 59.9′N	179° 49.5′W	2 DEC 97	522	27	7	5651	1006
421	3° 59.9′N	179° 51.5′W	2 DEC 97	1322	346	9	5682	1005
431	5° 1.1′N	179° 53.1′W	2 DEC 97	2143	35	7	5589	1004
441	6° 0.4′N	179° 51.9′W	3 DEC 97	452	16	13	5555	1006
451	7° 0.4′N	179° 50.4′W	3 DEC 97	1150	55	12	5804	1003
461	8° 0.0′N	179° 55.3′W	4 DEC 97	455	41	11	5959	1009
471	1° 0.2′S	169° 59.8′W	7 DEC 97	1146	325	10	5248	1003
481	0° 0.7′S	170° 1.5′W	7 DEC 97	2039	17	8	5589	1006
491	0° 29.9′N	169° 57.7′W	8 DEC 97	128	29	8	5434	1005
501	0° 59.7′N	169° 59.0′W	8 DEC 97	553	355	8	5453	1003
511	1° 29.7′N	169° 56.9′W	8 DEC 97	1017	25	10	5533	1004
521	1° 55.8′N	169° 56.8′W	8 DEC 97	1444	28	12	5372	3005
531	3° 0.3′N	169° 59.5′W	9 DEC 97	1520	43	6	5465	1004
541	4° 0.2′N	169° 58.3′W	9 DEC 97	2224	100	10	5682	502
551	5° 0.4′N	169° 56.8′W	10 DEC 97	552	56	17	5744	1003
561	6° 0.1′N	169° 59.0′W	10 DEC 97	1517	54	16	5434	502
571	7° 0.3′N	170° 0.3′W	10 DEC 97	2301	70	16	5928	501
581	7° 50.5′N	170° 1.6′W	11 DEC 97	634	61	18	5549	5041
591	8° 1.6′N	170° 3.2′W	12 DEC 97	406	45	18	5477	501

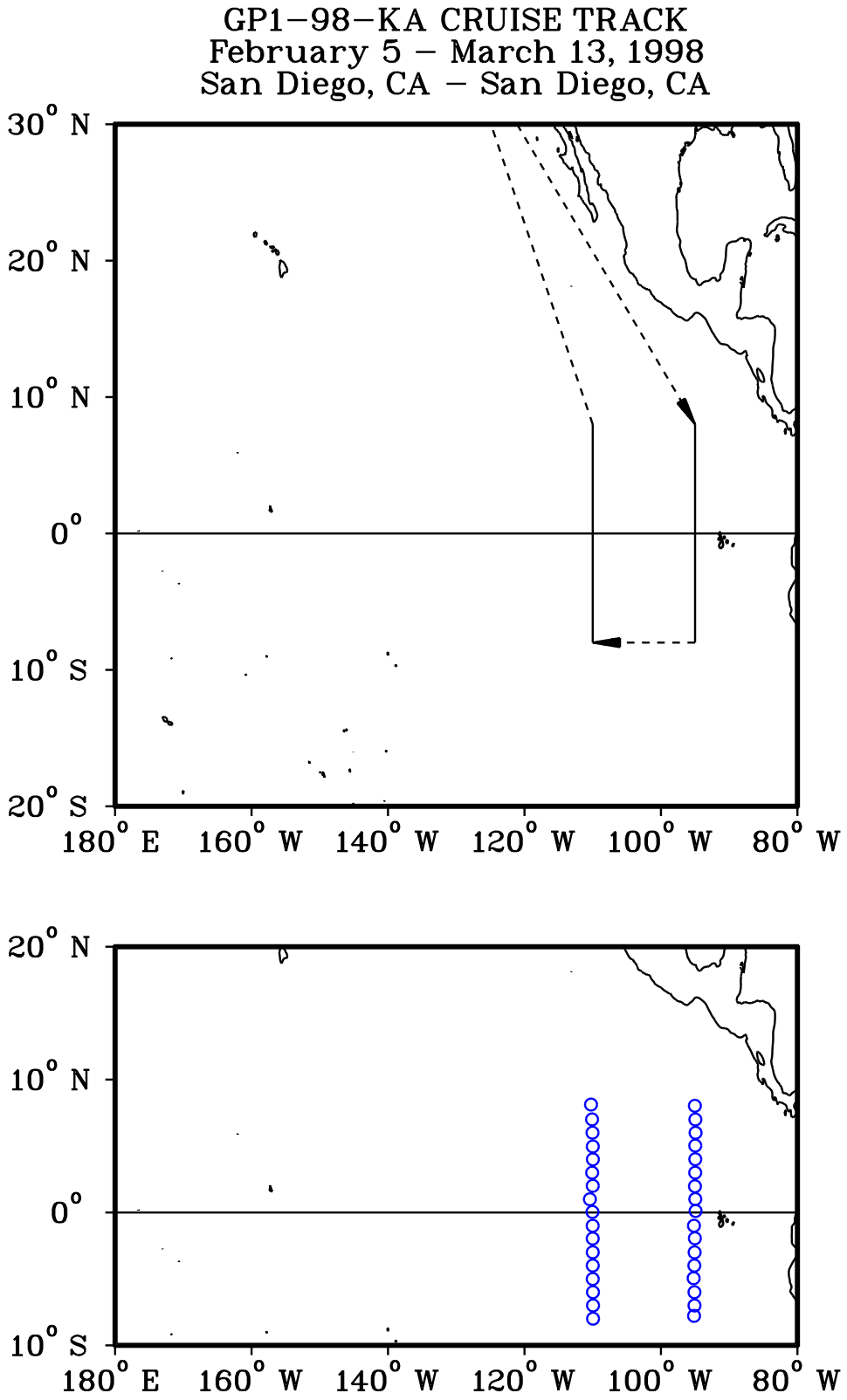

Figure 1h: GP1-98-KA cruise track and station locations.

Table 1h: GP1-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 1.7′N	95° 1.7′W	14 FEB 98	1327	308	5	3727	3505
21	6° 59.8′N	94° 57.5′W	15 FEB 98	441	51	11	3712	1006
31	5° 59.9′N	94° 55.7′W	15 FEB 98	1202	44	8	3228	1002
41	5° 1.9′N	94° 58.3′W	16 FEB 98	225	17	10	3591	1003
51	4° 0.4′N	94° 58.1′W	16 FEB 98	1025	23	9	3349	846
61	2° 59.8′N	94° 58.9′W	16 FEB 98	1824	64	8	2626	1008
71	1° 58.4′N	95° 1.0′W	17 FEB 98	249	102	10	3077	1006
81	1° 0.5′N	94° 58.1′W	17 FEB 98	1059	126	5	3500	1005
91	0° 6.7′N	94° 55.7′W	17 FEB 98	1817	129	4	3319	1003
101	0° 59.9′S	95° 9.7′W	18 FEB 98	1107	286	1	3288	1006
111	1° 56.7′S	95° 1.8′W	19 FEB 98	203	224	2	3414	1002
121	3° 0.0′S	95° 4.1′W	19 FEB 98	1256	99	3	3470	1004
131	3° 59.7′S	95° 6.4′W	19 FEB 98	2113	178	5	3561	1006
141	4° 57.0′S	95° 12.7′W	20 FEB 98	642	7	5	3773	3512
151	6° 0.0′S	95° 5.5′W	21 FEB 98	858	297	4	3895	1002
161	7° 0.1′S	95° 5.3′W	21 FEB 98	1639	147	13	3895	1001
171	7° 46.9′S	95° 8.9′W	22 FEB 98	410	162	13	3834	1008
181	7° 59.5′S	109° 57.2′W	26 FEB 98	807	109	13	3409	1004
191	6° 59.8′S	109° 57.3′W	26 FEB 98	1637	108	13	3440	502
201	5° 59.9′S	109° 57.8′W	27 FEB 98	8	161	8	3512	1004
211	5° 0.3′S	109° 59.7′W	27 FEB 98	735	102	6	3603	1006
221	3° 59.6′S	109° 59.6′W	27 FEB 98	1512	130	8	3609	1006
231	2° 59.7′S	109° 59.5′W	27 FEB 98	2211	134	2	3773	1005
241	1° 57.7′S	110° 0.0′W	28 FEB 98	543	215	7	3925	1005
251	1° 0.0′S	110° 0.3′W	28 FEB 98	1239	93	3	3955	1003
261	0° 2.4′N	110° 2.3′W	1 MAR 98	705	93	6	3724	3511
271	0° 59.7′N	110° 24.9′W	2 MAR 98	1415	169	2	3761	1004
281	2° 0.4′N	109° 59.6′W	3 MAR 98	905	327	6	3712	3512
291	2° 59.8′N	110° 5.0′W	4 MAR 98	339	40	10	3925	1005
301	3° 59.8′N	109° 58.6′W	4 MAR 98	1204	340	6	3864	1004
311	4° 58.0′N	109° 59.3′W	5 MAR 98	132	13	13	3906	1006
321	6° 0.3′N	110° 2.1′W	5 MAR 98	953	10	12	3500	1004
331	7° 0.3′N	110° 5.8′W	5 MAR 98	1726	8	15	3712	1004
341	8° 7.3′N	110° 15.0′W	6 MAR 98	812	10	17	4077	1007

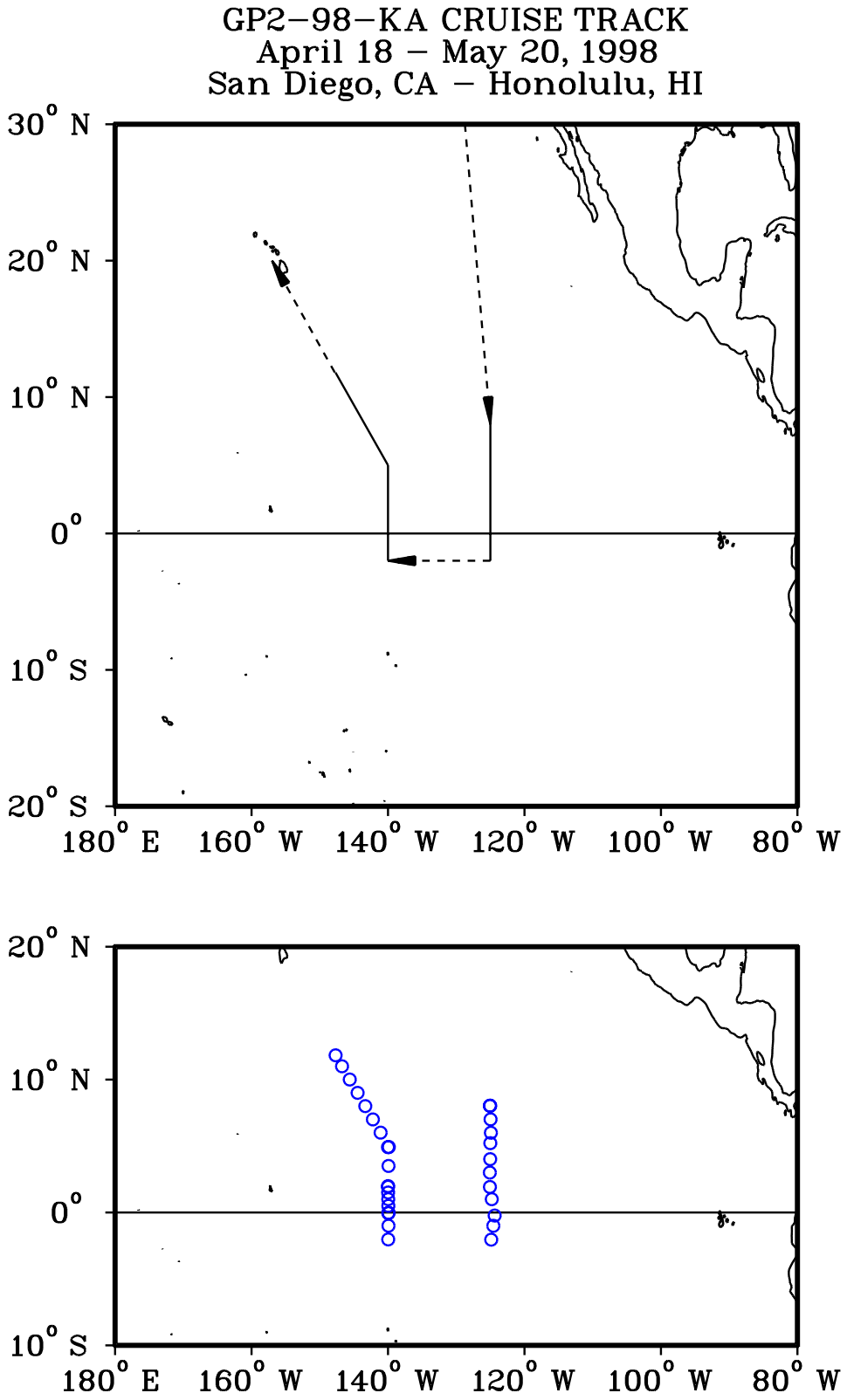

Figure 1i: GP2-98-KA cruise track and station locations.

Table 1i: GP2-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 2.0′N	125° 3.7′W	25 APR 98	452	31	18	4567	4011
12	8° 2.0′N	125° 2.1′W	25 APR 98	821	25	13	4639	504
21	7° 0.5′N	124° 58.3′W	26 APR 98	154	19	13	4644	1002
31	6° 0.0′N	124° 55.5′W	26 APR 98	900	26	7	4387	1002
41	5° 13.0′N	125° 0.5′W	26 APR 98	2133	12	11	4416	1005
51	4° 0.8′N	125° 1.7′W	27 APR 98	542	15	13	4413	1005
61	3° 0.3′N	125° 4.8′W	27 APR 98	1304	358	15	4499	1005
71	1° 55.2′N	125° 4.0′W	28 APR 98	533	323	10	4690	1003
81	0° 59.9′N	124° 47.7′W	28 APR 98	1242	304	8	4662	1004
91	0° 13.9′S	124° 22.4′W	29 APR 98	728	323	12	4733	1003
101	1° 0.1′S	124° 33.9′W	29 APR 98	1407	332	10	4731	1004
111	2° 2.7′S	124° 52.6′W	29 APR 98	2352	312	11	4694	1006
121	2° 1.7′S	139° 58.3′W	9 MAY 98	526	87	4	4321	1003
131	0° 59.9′S	139° 56.1′W	9 MAY 98	1311	4	12	4213	1004
141	0° 1.9′S	139° 54.7′W	10 MAY 98	424	7	10	4339	4007
151	0° 2.7′S	139° 57.5′W	10 MAY 98	2114	43	14	4301	502
161	0° 29.9′N	139° 57.2′W	11 MAY 98	201	63	15	4353	1002
171	1° 0.0′N	139° 58.0′W	11 MAY 98	626	59	19	4315	1003
181	1° 30.3′N	139° 59.2′W	11 MAY 98	1047	46	11	4501	1003
191	1° 55.9′N	140° 0.2′W	11 MAY 98	1429	77	21	4380	1005
192	1° 59.0′N	139° 59.2′W	12 MAY 98	245	43	18	4369	202
201	3° 30.1′N	139° 55.7′W	12 MAY 98	1500	50	23	4373	1003
211	4° 55.1′N	140° 0.4′W	13 MAY 98	713	47	21	4412	4007
212	4° 55.7′N	139° 53.0′W	13 MAY 98	1855	31	20	4491	508
221	6° 0.5′N	141° 5.1′W	14 MAY 98	1030	47	16	4948	1002
231	7° 0.1′N	142° 13.0′W	14 MAY 98	2006	24	16	5030	1005
241	8° 0.3′N	143° 20.0′W	15 MAY 98	559	60	20	4885	1004
251	9° 0.2′N	144° 27.5′W	15 MAY 98	1631	35	16	5140	1004
261	10° 0.3′N	145° 36.5′W	16 MAY 98	249	30	19	5122	1005
271	11° 0.0′N	146° 44.3′W	16 MAY 98	1314	61	17	5169	1004
281	11° 49.7′N	147° 41.0′W	16 MAY 98	2246	58	12	5427	4105

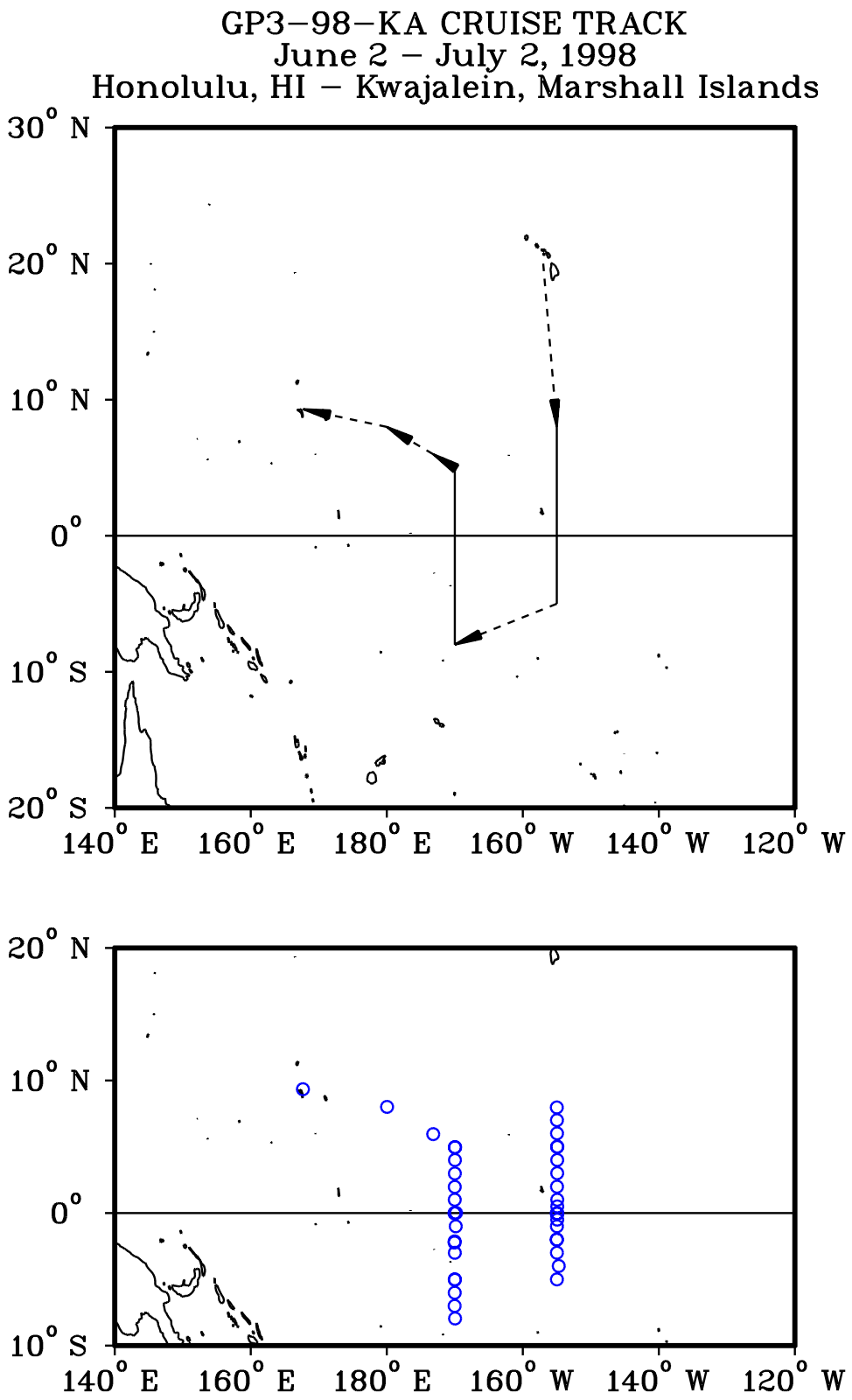

Figure 1j: GP3-98-KA cruise track and station locations.

Table 1j: GP3-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 58.1′N	155° 0.1′W	6 JUN 98	648	53	19	5212	1006
21	7° 0.5′N	154° 58.8′W	6 JUN 98	1351	64	18	4968	1005
31	6° 0.8′N	154° 58.2′W	6 JUN 98	2145	69	17	4838	4016
41	5° 1.0′N	154° 55.9′W	7 JUN 98	919	75	16	4595	4007
42	4° 59.1′N	154° 57.1′W	8 JUN 98	339	40	11	4583	202
51	4° 0.1′N	154° 56.5′W	8 JUN 98	1031	25	17	4708	1004
61	3° 0.4′N	154° 56.6′W	8 JUN 98	1722	90	11	4808	1011
71	1° 59.4′N	154° 58.3′W	9 JUN 98	1001	90	12	4658	1005
81	1° 0.3′N	154° 56.3′W	9 JUN 98	1723	113	22	4745	1005
91	0° 29.9′N	154° 56.3′W	9 JUN 98	2143	111	15	4734	1004
101	0° 2.1′S	154° 56.7′W	10 JUN 98	520	105	10	4636	1006
111	0° 29.8′S	154° 56.5′W	10 JUN 98	926	102	12	4880	1006
121	0° 1.0′S	154° 56.3′W	13 JUN 98	539	60	5	4641	4005
122	0° 1.8′S	155° 0.7′W	13 JUN 98	2351	52	7	4687	202
131	1° 0.0′S	154° 59.1′W	14 JUN 98	655	98	2	4750	1006
141	2° 0.6′S	155° 1.5′W	14 JUN 98	1448	5	8	4815	4004
142	2° 0.1′S	154° 58.9′W	15 JUN 98	440	135	9	4993	202
151	2° 59.7′S	154° 59.2′W	15 JUN 98	1146	142	6	4920	1003
161	3° 59.7′S	154° 43.0′W	15 JUN 98	1921	111	7	4630	1003
171	5° 0.3′S	154° 59.2′W	16 JUN 98	326	60	7	5005	1006
181	7° 57.3′S	169° 57.7′W	19 JUN 98	1646	90	11	5358	1004
191	7° 0.5′S	170° 1.6′W	20 JUN 98	214	90	11	4622	1006
201	6° 0.8′S	170° 0.7′W	20 JUN 98	929	82	15	4777	1004
211	5° 2.5′S	169° 59.2′W	20 JUN 98	1624	101	14	5395	1004
212	4° 59.9′S	170° 0.2′W	21 JUN 98	344	92	15	5421	201
221	3° 0.0′S	169° 59.9′W	21 JUN 98	1706	90	10	5088	1003
231	2° 8.3′S	170° 1.6′W	22 JUN 98	11	76	11	4942	1008
232	2° 13.7′S	170° 1.9′W	22 JUN 98	1023	40	18	4944	201
241	1° 0.0′S	169° 51.7′W	22 JUN 98	1119	30	10	5788	1006
251	0° 0.7′N	169° 49.0′W	23 JUN 98	1109	94	13	5269	4007
261	0° 0.9′N	170° 0.8′W	23 JUN 98	1707	77	16	5279	202
262	0° 1.3′S	170° 2.4′W	24 JUN 98	549	103	10	5605	204
271	1° 0.3′N	170° 0.5′W	24 JUN 98	1313	78	11	5463	1004
281	1° 58.3′N	170° 0.3′W	24 JUN 98	2014	79	9	5407	1007
291	2° 59.3′N	169° 59.5′W	25 JUN 98	340	86	12	5469	1008
301	4° 0.0′N	169° 58.7′W	25 JUN 98	1031	75	10	5676	1006
311	4° 57.0′N	169° 58.1′W	25 JUN 98	1711	50	10	5799	1006
312	4° 58.4′N	169° 58.6′W	26 JUN 98	325	66	15	5765	203
321	5° 57.3′N	173° 10.6′W	26 JUN 98	2306	63	19	5854	504
331	8° 0.6′N	179° 57.7′W	28 JUN 98	1736	61	19	5951	4014
341	9° 20.5′N	167° 40.1′E	2 JUL 98	207	0	0	3746	3659

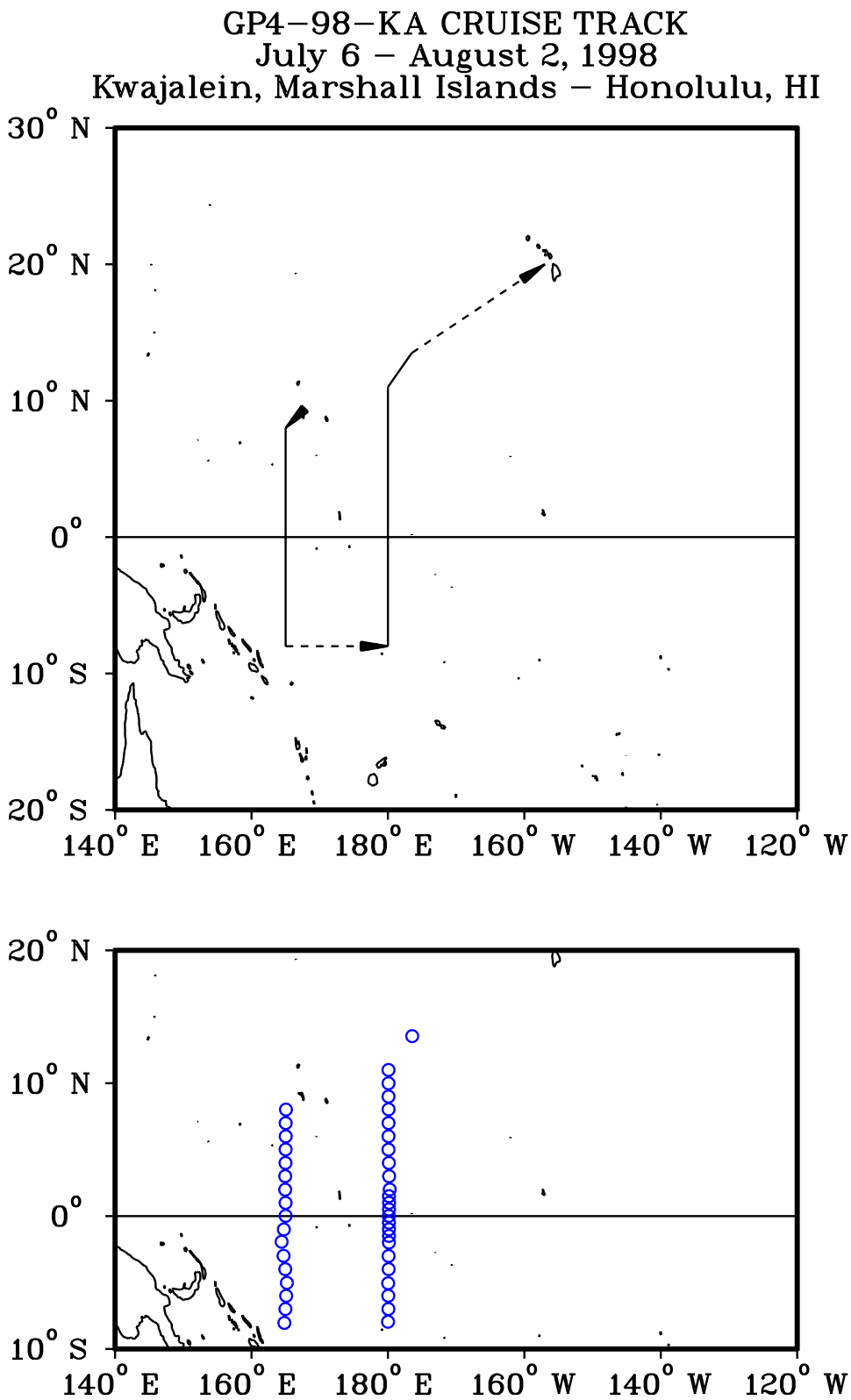

Figure 1k: GP4-98-KA cruise track and station locations.

Table 1k: GP4-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 0.9′N	165° 3.2′E	8 JUL 98	428	82	3	5215	1008
21	6° 59.9′N	165° 0.6′E	8 JUL 98	1210	19	1	5157	1006
31	6° 0.1′N	165° 0.9′E	8 JUL 98	1858	67	3	5005	1004
41	5° 0.9′N	165° 0.0′E	9 JUL 98	906	30	15	4780	1012
51	3° 59.9′N	164° 58.9′E	9 JUL 98	1622	125	8	4498	1004
61	3° 0.3′N	164° 56.4′E	9 JUL 98	2317	49	5	4198	1006
71	1° 59.4′N	164° 56.3′E	10 JUL 98	616	83	5	4189	1008
81	0° 59.7′N	164° 59.6′E	10 JUL 98	1348	155	11	4335	1004
91	0° 0.9′N	164° 59.9′E	11 JUL 98	750	105	9	4415	1010
101	1° 0.3′S	164° 44.2′E	11 JUL 98	1504	103	3	4428	1005
111	1° 55.8′S	164° 25.0′E	11 JUL 98	2202	186	3	4432	1010
121	2° 59.5′S	164° 41.7′E	12 JUL 98	1705	35	11	3635	1017
131	3° 59.9′S	164° 56.9′E	13 JUL 98	56	63	18	3249	1004
141	5° 1.5′S	165° 11.3′E	13 JUL 98	920	65	13	2479	1004
151	6° 0.0′S	165° 5.0′E	13 JUL 98	1555	88	10	3609	1003
161	6° 59.9′S	164° 58.0′E	13 JUL 98	2235	89	11	3727	1004
171	8° 2.2′S	164° 49.1′E	14 JUL 98	1050	119	19	3901	1003
181	7° 57.1′S	179° 59.3′W	18 JUL 98	1705	100	20	5382	1002
191	6° 59.8′S	179° 55.9′W	19 JUL 98	246	41	4	4610	1003
201	5° 59.8′S	179° 57.2′W	19 JUL 98	937	58	8	4648	1005
211	5° 3.3′S	179° 58.0′W	19 JUL 98	1625	46	15	5755	1003
221	3° 59.7′S	179° 53.6′W	20 JUL 98	1127	40	10	5873	1008
231	3° 0.3′S	179° 54.2′W	20 JUL 98	1822	20	8	5289	1008
241	1° 59.6′S	179° 51.4′W	21 JUL 98	138	79	13	5346	1005
251	1° 29.5′S	179° 50.9′W	21 JUL 98	533	76	11	5242	1006
261	0° 59.8′S	179° 51.3′W	21 JUL 98	915	67	14	5392	1007
271	0° 30.0′S	179° 51.1′W	21 JUL 98	1308	85	12	4693	1003
281	0° 0.8′N	179° 51.9′W	21 JUL 98	1710	87	15	5403	1003
291	0° 30.0′N	179° 50.7′W	21 JUL 98	2200	97	14	5574	1005
301	1° 0.0′N	179° 49.6′W	22 JUL 98	206	90	12	5796	1005
311	1° 30.0′N	179° 51.0′W	22 JUL 98	629	106	9	5589	1006
321	2° 0.2′N	179° 44.6′W	22 JUL 98	1738	119	16	5620	1003
331	3° 0.0′N	179° 49.8′W	23 JUL 98	925	123	15	5662	1006
341	3° 59.9′N	179° 51.9′W	23 JUL 98	1635	172	7	5672	1003
351	5° 0.1′N	179° 55.3′W	24 JUL 98	1010	122	13	5678	1006
361	6° 0.5′N	179° 54.9′W	24 JUL 98	1745	90	23	5610	1002
371	7° 0.1′N	179° 54.6′W	25 JUL 98	27	120	16	5697	1005
381	8° 1.8′N	179° 54.3′W	25 JUL 98	719	100	12	5975	1008
391	8° 59.9′N	179° 54.9′W	25 JUL 98	1417	100	12	5870	1003
401	9° 59.6′N	179° 54.8′W	25 JUL 98	2132	70	9	6243	1011
411	10° 59.8′N	179° 55.0′W	26 JUL 98	450	65	12	5752	1006
431	13° 32.6′N	176° 26.4′W	27 JUL 98	1926	68	14	5212	4006

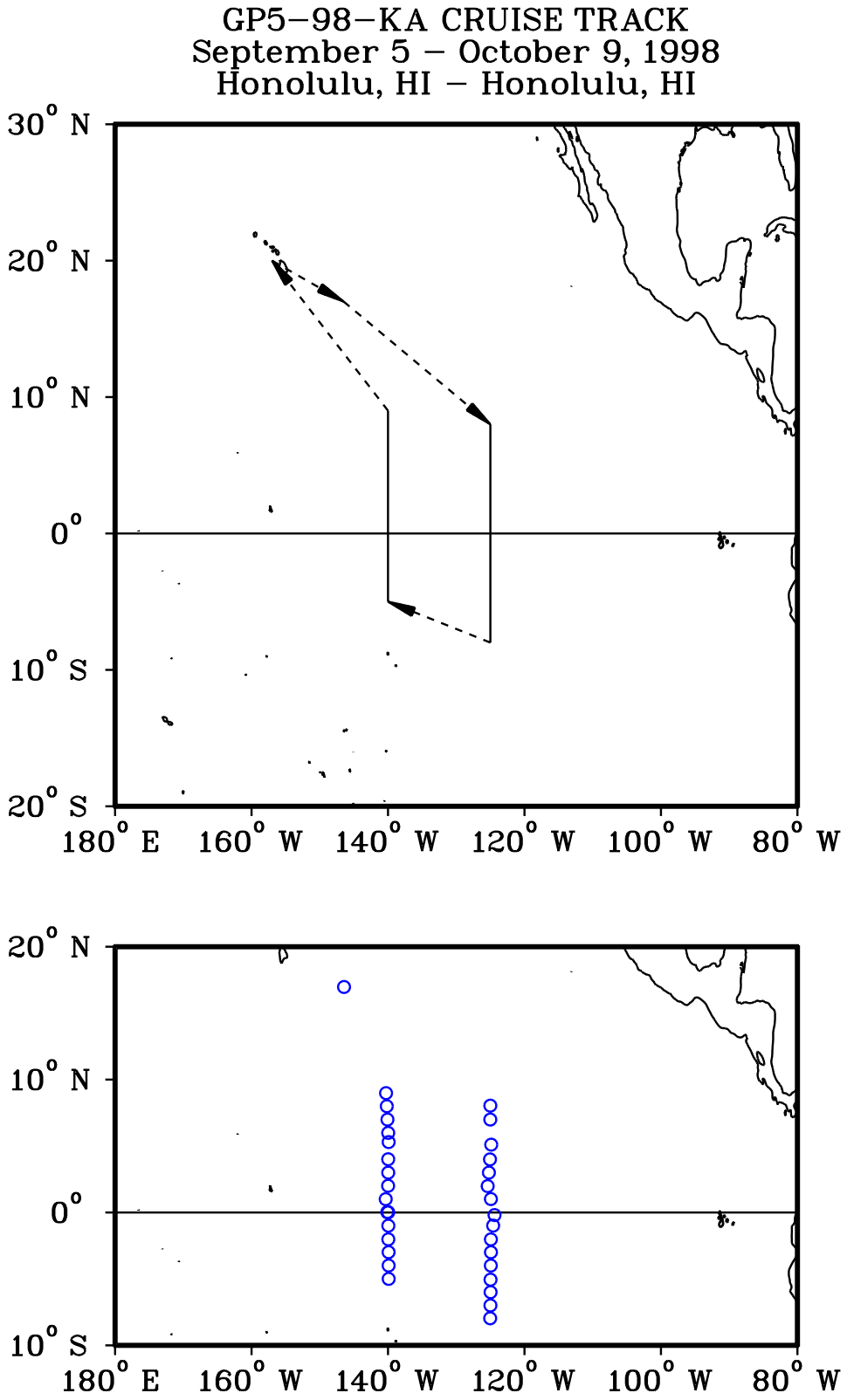

Figure 1l: GP5-98-KA cruise track and station locations.

Table 1l: GP5-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
1	16° 58.2′N	146° 26.8′W	8 SEP 98	2330	52	10	5205	1010
11	8° 2.4′N	125° 0.4′W	15 SEP 98	530	196	8	4576	1005
21	6° 59.6′N	125° 0.8′W	15 SEP 98	1311	203	10	4719	1005
31	5° 6.3′N	124° 52.5′W	16 SEP 98	529	227	8	4378	1004
41	3° 59.8′N	125° 3.5′W	16 SEP 98	1436	161	15	4403	1007
51	3° 0.1′N	125° 12.9′W	16 SEP 98	2156	155	17	4563	1005
61	1° 59.1′N	125° 23.8′W	17 SEP 98	600	125	17	4565	1004
71	1° 0.6′N	124° 55.4′W	17 SEP 98	1558	132	15	4688	1004
81	0° 11.7′S	124° 23.4′W	18 SEP 98	847	115	5	4780	1004
91	0° 59.3′S	124° 35.5′W	18 SEP 98	1527	60	4	4649	1006
101	2° 1.5′S	124° 55.4′W	19 SEP 98	744	55	14	4649	1005
111	2° 59.5′S	124° 54.9′W	19 SEP 98	1445	120	11	4647	1004
121	3° 59.7′S	124° 56.1′W	19 SEP 98	2126	108	12	4513	1004
131	5° 3.3′S	124° 58.7′W	20 SEP 98	522	136	12	4476	3005
141	5° 59.8′S	124° 58.1′W	20 SEP 98	2240	100	23	4678	1004
151	6° 59.7′S	124° 59.5′W	21 SEP 98	640	108	22	4761	1006
161	7° 57.9′S	125° 1.8′W	22 SEP 98	303	113	14	4470	1005
171	4° 59.8′S	139° 54.3′W	26 SEP 98	132	88	17	4363	1005
181	3° 59.6′S	139° 54.7′W	26 SEP 98	906	88	11	4517	1005
191	2° 59.3′S	139° 55.0′W	26 SEP 98	1626	114	14	4285	1004
201	2° 1.3′S	139° 57.3′W	27 SEP 98	719	9	4	4337	138
211	0° 59.7′S	139° 57.1′W	27 SEP 98	1715	122	9	4245	1006
221	0° 2.1′N	140° 6.3′W	28 SEP 98	928	94	14	4330	4006
222	0° 0.6′N	139° 58.5′W	29 SEP 98	729	105	18	4358	1005
231	1° 0.1′N	140° 20.2′W	29 SEP 98	1455	105	18	3725	1006
241	2° 0.4′N	139° 59.3′W	30 SEP 98	1924	133	17	4381	1005
251	2° 59.9′N	139° 58.2′W	1 OCT 98	312	118	13	4297	1004
261	4° 0.4′N	139° 58.5′W	1 OCT 98	1020	126	14	4331	1010
271	5° 18.0′N	139° 54.4′W	2 OCT 98	210	127	15	4532	1005
281	5° 59.4′N	139° 58.4′W	2 OCT 98	847	127	15	4832	1004
291	6° 59.5′N	140° 4.9′W	2 OCT 98	1808	141	11	4942	1005
301	7° 59.8′N	140° 10.8′W	3 OCT 98	251	156	15	5137	1007
311	8° 59.0′N	140° 17.3′W	3 OCT 98	2333	148	5	4871	1004

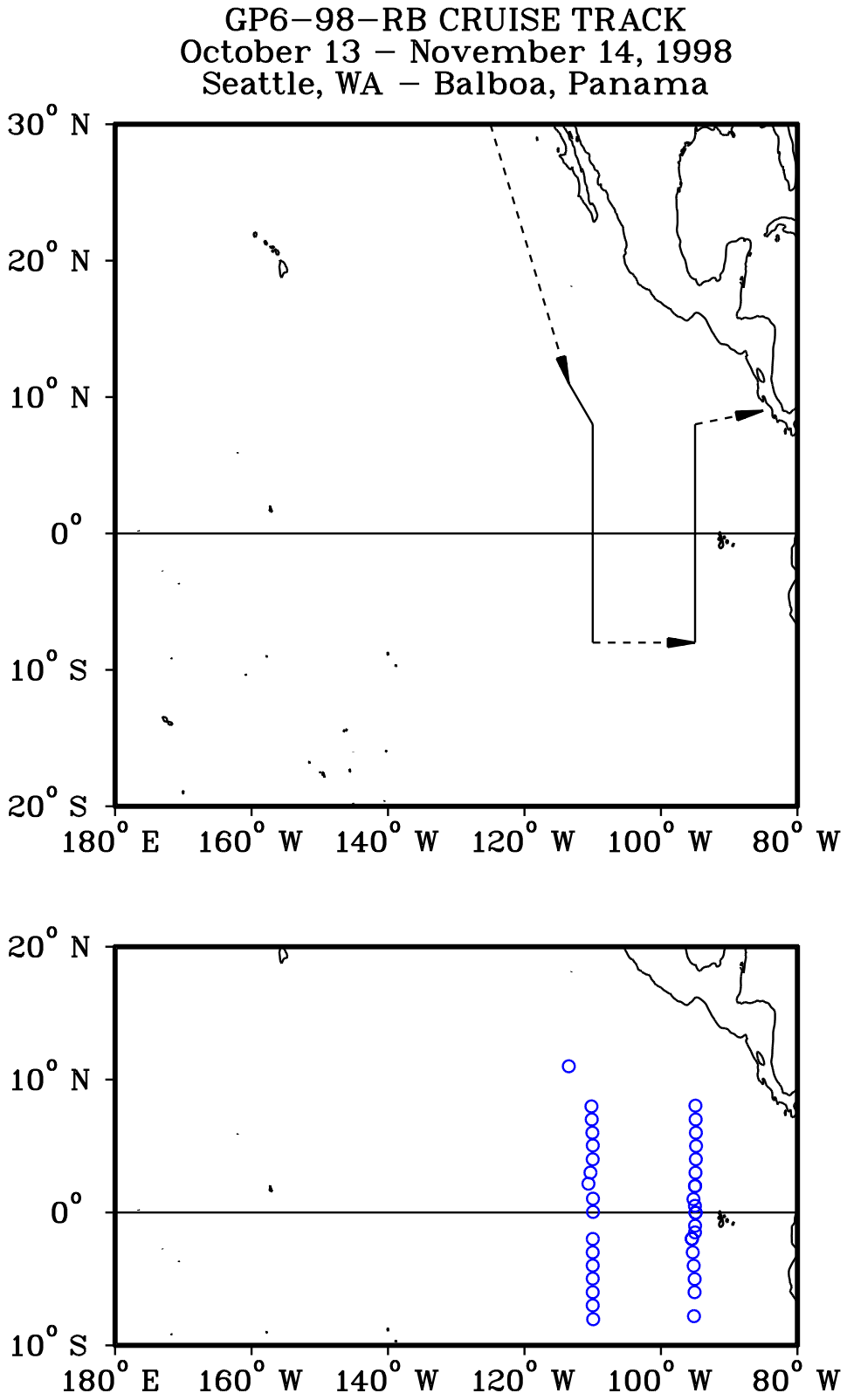

Figure 1m: GP6-98-RB cruise track and station locations.

Table 1m: GP6-98-RB CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	11° 0.2′N	113° 30.3′W	21 OCT 98	2132	10	5	4024	1001
21	7° 59.1′N	110° 11.2′W	22 OCT 98	2355	225	12	4154	1001
31	7° 0.0′N	110° 8.7′W	24 OCT 98	5	220	12	3633	1002
41	6° 0.2′N	110° 3.2′W	24 OCT 98	556	180	17	3562	1001
51	5° 2.7′N	109° 59.4′W	24 OCT 98	1221	170	21	3941	1014
61	4° 0.1′N	110° 0.1′W	24 OCT 98	2148	165	22	3873	1002
71	3° 0.3′N	110° 19.9′W	25 OCT 98	403	150	18	3783	1009
81	2° 10.0′N	110° 37.7′W	25 OCT 98	1324	140	15	3757	1005
91	1° 2.4′N	109° 57.9′W	26 OCT 98	1115	115	11	3768	1001
101	0° 2.6′N	109° 57.4′W	27 OCT 98	41	95	9	3806	1002
111	1° 59.5′S	109° 59.4′W	28 OCT 98	205	110	8	3941	1001
121	3° 0.0′S	110° 0.0′W	28 OCT 98	814	105	10	3748	1001
131	3° 59.6′S	110° 0.0′W	28 OCT 98	1349	120	14	3668	1001
141	4° 58.6′S	109° 59.8′W	29 OCT 98	107	125	15	3583	1001
151	6° 0.0′S	110° 0.0′W	29 OCT 98	730	120	18	3731	1002
161	6° 59.7′S	110° 0.0′W	29 OCT 98	1315	105	11	3598	1001
171	8° 2.1′S	109° 56.1′W	30 OCT 98	409	115	13	3397	1002
181	7° 48.2′S	95° 9.6′W	3 NOV 98	147	122	15	3924	1002
191	6° 0.0′S	95° 4.6′W	4 NOV 98	925	105	10	3898	1002
201	5° 0.8′S	95° 3.8′W	4 NOV 98	1714	100	10	3817	1003
211	4° 0.5′S	95° 12.3′W	4 NOV 98	2249	135	12	3705	1004
221	3° 0.0′S	95° 20.4′W	5 NOV 98	437	90	4	3545	1001
231	1° 58.8′S	95° 28.2′W	5 NOV 98	1123	80	2	3352	3003
232	1° 58.8′S	95° 28.2′W	5 NOV 98	1326	180	4	3352	201
241	1° 30.0′S	95° 0.5′W	5 NOV 98	2358	0	0	3336	1001
251	1° 0.0′S	95° 0.0′W	6 NOV 98	343	130	7	3322	1002
261	0° 1.0′S	94° 55.8′W	6 NOV 98	1300	170	7	3369	3003
262	0° 1.0′S	94° 55.8′W	6 NOV 98	1445	140	7	3369	201
271	0° 30.0′N	95° 1.3′W	7 NOV 98	502	175	14	3281	1001
281	1° 0.0′N	95° 14.3′W	7 NOV 98	836	185	14	3500	1000
291	1° 59.2′N	95° 0.0′W	8 NOV 98	230	177	20	3111	3002
292	1° 59.7′N	95° 0.5′W	8 NOV 98	416	162	17	3126	203
301	2° 59.6′N	94° 56.2′W	8 NOV 98	2324	150	16	3262	1001
311	4° 0.5′N	94° 53.1′W	9 NOV 98	504	175	15	3285	1002
321	5° 0.2′N	94° 51.5′W	9 NOV 98	1539	167	12	3441	1002
331	6° 0.1′N	94° 52.7′W	9 NOV 98	2105	180	10	3767	1002
341	6° 59.9′N	94° 54.8′W	10 NOV 98	235	190	9	3735	1002
351	8° 2.3′N	94° 57.0′W	10 NOV 98	1218	200	3	3670	1002

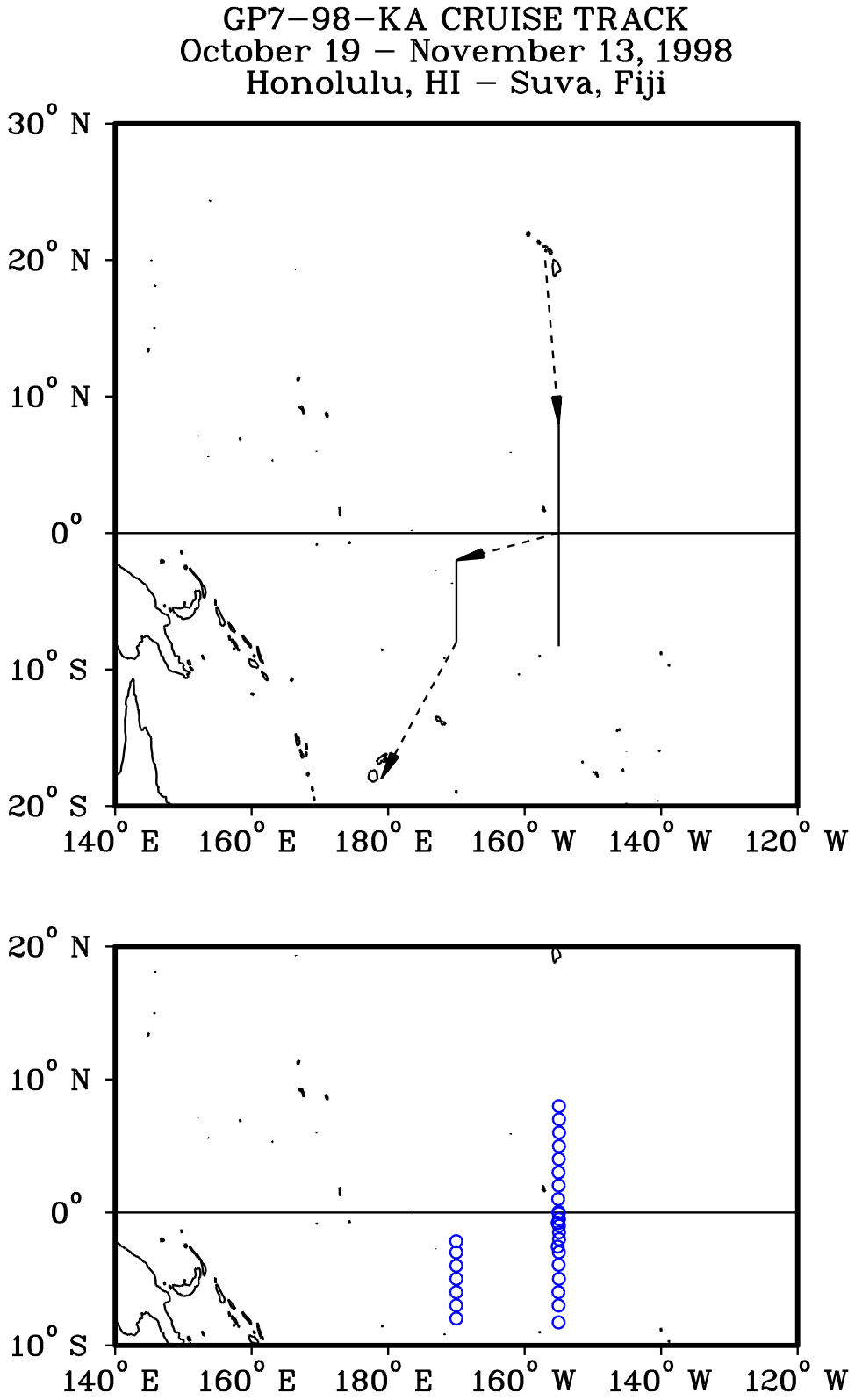

Figure 1n: GP7-98-KA cruise track and station locations.

Table 1n: GP7-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 59.7′N	154° 58.8′W	24 OCT 98	423	155	14	5222	1003
21	7° 0.3′N	154° 58.2′W	24 OCT 98	1302	105	17	4965	1004
31	6° 0.6′N	154° 57.3′W	24 OCT 98	2116	83	8	4834	1003
41	4° 59.4′N	154° 58.2′W	25 OCT 98	743	51	4	4571	1005
51	4° 0.8′N	155° 0.3′W	25 OCT 98	1738	190	1	4679	1003
61	3° 0.8′N	155° 2.5′W	26 OCT 98	535	124	13	4771	1005
71	2° 1.7′N	155° 1.4′W	26 OCT 98	2256	147	18	4773	1004
81	1° 0.6′N	155° 5.5′W	27 OCT 98	1355	130	17	4736	1007
91	0° 3.6′S	155° 0.6′W	28 OCT 98	340	93	9	4697	1006
101	0° 30.0′S	154° 58.4′W	28 OCT 98	757	72	12	4890	1005
111	1° 0.0′S	154° 58.5′W	28 OCT 98	1136	70	10	4755	1005
121	1° 29.9′S	154° 58.0′W	28 OCT 98	1516	70	10	4886	1003
131	2° 0.7′S	154° 57.7′W	28 OCT 98	1923	66	15	4995	1004
141	2° 59.6′S	154° 59.4′W	29 OCT 98	209	50	18	4930	1004
151	3° 56.5′S	155° 1.8′W	29 OCT 98	829	60	13	2075	1004
161	4° 59.6′S	154° 58.9′W	30 OCT 98	302	32	11	5027	1006
171	8° 16.1′S	155° 1.6′W	31 OCT 98	746	357	7	5341	1006
181	7° 0.0′S	155° 2.2′W	31 OCT 98	1637	40	10	5224	1008
191	5° 59.8′S	155° 3.6′W	1 NOV 98	2	41	6	5258	1004
201	2° 33.9′S	155° 10.0′W	1 NOV 98	2315	43	9	4904	200
211	0° 47.4′S	155° 7.9′W	2 NOV 98	1326	68	10	3227	200
212	0° 47.2′S	155° 8.9′W	2 NOV 98	1441	70	15	3319	3004
221	0° 2.3′N	155° 1.9′W	3 NOV 98	900	82	16	4681	1005
231	2° 9.9′S	170° 1.6′W	7 NOV 98	615	71	14	4963	1005
241	2° 59.7′S	170° 1.4′W	7 NOV 98	1248	60	11	5066	1003
251	4° 0.1′S	170° 0.8′W	7 NOV 98	1924	74	17	5732	1005
261	4° 59.6′S	170° 0.2′W	8 NOV 98	301	74	17	5421	1005
271	5° 59.7′S	170° 1.1′W	8 NOV 98	1026	92	16	4708	1006
281	6° 59.6′S	170° 1.3′W	8 NOV 98	1814	65	16	4778	1007
291	7° 58.7′S	170° 0.7′W	9 NOV 98	919	54	14	5376	1005

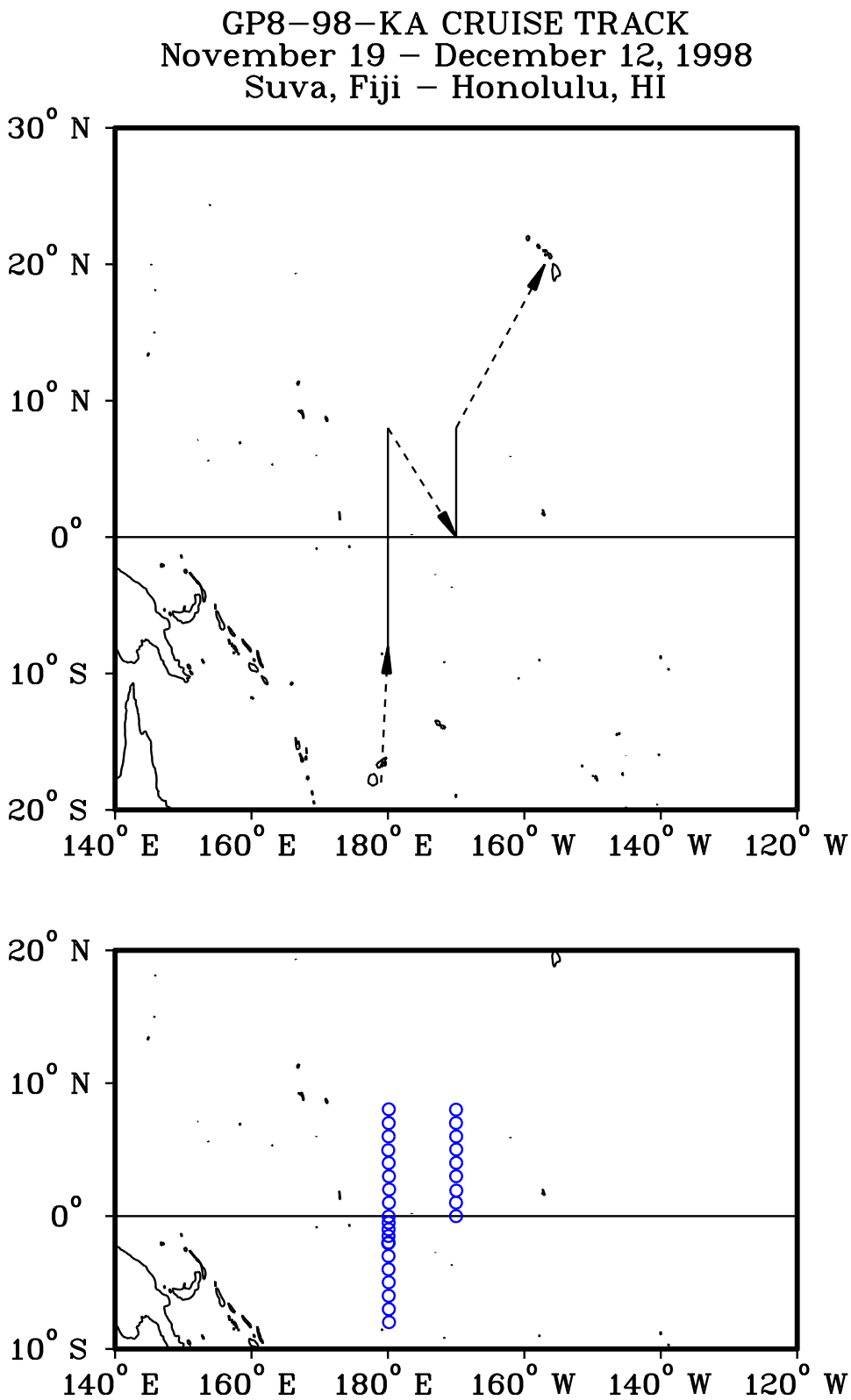

Figure 1o: GP8-98-KA cruise track and station locations.

Table 1o: GP8-98-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 59.1′S	179° 50.5′W	22 NOV 98	734	49	5	5538	1005
21	7° 0.4′S	179° 52.3′W	22 NOV 98	1456	180	4	5257	1006
31	5° 59.9′S	179° 53.6′W	22 NOV 98	2215	263	9	4899	1004
41	4° 59.1′S	179° 53.0′W	23 NOV 98	600	74	2	5629	1004
51	4° 0.4′S	179° 54.9′W	23 NOV 98	1332	21	15	6003	1006
61	3° 0.1′S	179° 55.3′W	23 NOV 98	2128	35	7	5401	1004
71	2° 2.1′S	179° 58.6′E	24 NOV 98	949	39	15	5393	4005
81	1° 59.8′S	179° 54.0′W	24 NOV 98	2146	74	9	5314	1006
91	0° 59.8′S	179° 54.4′W	25 NOV 98	623	62	11	5356	1006
101	0° 30.0′S	179° 54.1′W	25 NOV 98	1049	59	12	4653	1006
111	0° 1.8′N	179° 53.9′W	25 NOV 98	1722	78	14	5402	1004
121	1° 0.2′N	179° 51.3′W	26 NOV 98	1122	66	12	5842	1004
131	2° 0.3′N	179° 49.5′W	26 NOV 98	1935	121	11	5471	1011
141	2° 59.5′N	179° 51.2′W	27 NOV 98	309	119	20	5663	1006
151	3° 59.8′N	179° 53.3′W	27 NOV 98	1031	142	14	5703	1004
161	4° 57.6′N	179° 57.0′W	27 NOV 98	1746	149	21	5380	1005
171	6° 0.0′N	179° 54.4′W	28 NOV 98	224	147	20	5498	1003
181	7° 0.0′N	179° 53.4′W	28 NOV 98	932	144	14	5827	1003
191	8° 2.1′N	179° 52.6′W	28 NOV 98	1754	152	14	5910	1002
201	0° 0.3′S	170° 0.8′W	2 DEC 98	2332	98	37	5550	1002
211	1° 0.7′N	170° 1.2′W	3 DEC 98	732	157	4	5463	1002
221	1° 55.2′N	169° 58.7′W	3 DEC 98	1630	73	3	5397	1004
231	3° 0.0′N	170° 0.1′W	4 DEC 98	256	236	47	5487	1008
241	4° 0.4′N	169° 59.7′W	4 DEC 98	1024	28	8	5673	1003
251	5° 0.8′N	169° 59.2′W	4 DEC 98	1737	72	14	5804	1005
261	6° 0.1′N	169° 59.9′W	5 DEC 98	133	76	15	5425	1003
271	7° 0.4′N	170° 1.3′W	5 DEC 98	915	75	26	5989	1002
281	8° 0.6′N	170° 1.0′W	6 DEC 98	226	70	20	5521	1002

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

Cruise	Temp. Sensor S/N	Drift Correction °C	Viscous Heat Correction °C
GP398	2026	0.000109	–0.0006
GP498	2026	0.000206	–0.0006
GP598	2026	0.000432	–0.0006
GP798	2026	0.000578	–0.0006
GP898	2026	0.000675	–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 Fit Bias (mS/cm)	Pressure Correction Beta	Minimum Fit Slope	Maximum Fit Slope
GP197	1–6	1467	P127	Calcos1	39	40	97.50	0.002087	–0.025678563		1.0009262	1.0009638
	7–14	1467	P127	Calcos2	56	59	94.92	0.001931	–0.023852768		1.0009401	1.0010155
GP297	1–8	1467	P127	Calcos1	64	70	91.43	0.002766	–0.026944072		1.0010991	1.0012349
	9–13	1469	P127	Calcos1	33	35	94.29	0.002120	0.008019998		0.9999984	1.0000441
	2, 8		P127	Calcos1	11	11	100.00	0.002663	–0.009929637		1.0002716	1.0003796
GP397	1–27	1469	P130	Calcos3	146	160	91.25	0.002293	–0.003114562		1.0005042	1.0007716
	29–40	1536	P130	Calcos3	51	61	83.61	0.000837	–0.005480338		1.0002551	1.0003776
	25,28,30,31,41	1537	P130	Calcos3	34	39	87.18	0.000748	–0.021174820		1.0007864	1.0011089
GP497	1–17	1536	P130	Calcop3	101	122	82.79	0.000813	–0.008783065	4.1647099e-007	1.0004982	1.0005514
	18–29	1536	P130	Calcop3	64	75	85.33	0.000762	–0.012301793	2.2680421e-006	1.0006075	1.0007091
GP597	1–5	1536/1467	P130	Calcos2	28	33	84.85	0.002317	–0.031347916		1.0012617	1.0015644
	6–32	1467/1469	P130	Calcos3	125	143	87.41	0.001983	–0.004869412		0.9998995	0.9999970
GP697	2–26	1536	P130	Calcop2	130	146	89.04	0.000969	–0.012709966	6.9759176e-007	1.0002533	1.0002871
	28–42	1536	P130	Calcop2	72	82	87.80	0.001191	–0.017907535	1.1967037e-006	1.0004481	1.0005116
GP797	1–20	1536	P130	Calcop1	128	149	85.91	0.001408	–0.014960263	5.1027392e-007	1.0004086	1.0004406
	21–59	1536	P130	Calcop1	335	462	72.51	0.001493	–0.016891421	5.5873249e-007	1.0004968	1.0005381
GP198	1–34	1536	P127	Calcop2	260	376	69.15	0.001494	–0.021680330	9.0721519e-007	1.0007042	1.0007459
GP298	1–11	1536	P127	Calcop2	105	135	77.78	0.001309	–0.012401920	8.8076851e-007	1.0002304	1.0002474
	12–19	1536	P127	Calcop1	68	82	82.93	0.002497	–0.006284314	9.7291910e-007	0.9999921	1.0000273
	20–28	1536	P127	Calcop2	86	106	81.13	0.001049	–0.012169303	6.8877508e-007	1.0002114	1.0002223
GP398	1–34	1536	P127	Calcop4	290	378	76.72	0.001015	–0.009440483	4.7234494e-007	1.0000625	1.0001405
GP498	1–43	1536	P127	Calcop4	365	488	74.80	0.001165	–0.009564218	3.2069263e-007	1.0000968	1.0001483
GP598	0	1536	P127	Calcop0	11	11	100.00	0.000240	–0.591093850	–6.2301439e-005	1.0197296	1.0197296
	1–17	1536	P127	Calcop1	165	203	81.28	0.001435	–0.009925754	1.7198771e-007	1.0000914	1.0001003
	18–26	1536	P127	Calcop1	80	106	75.47	0.001407	–0.008593210	3.3902804e-007	0.9999743	1.0001110
	27–31	1536	P127	Calcop0	46	58	79.31	0.002025	–0.015873065	2.8028602e-006	1.0001948	1.0001948
GP698	1–18	1473	P133	Calcop3	120	138	79.47	0.001270	–0.014603804	3.7086808e-006	1.0001870	1.0002701
	19–35	1473/1921	P133	Calcop2	138	181	76.24	0.001378	–0.011277530	9.4984781e-007	1.0002516	1.0003121
GP798	1–29	1536	P127	Calcop3	260	310	83.87	0.001676	–0.007654385	–1.8101290e-008	1.0000010	1.0000467
GP898	1–28	1536	P127	Calcop4	184	240	76.67	0.001435	–0.009748257	6.9818194e-007	1.0000375	1.0000898

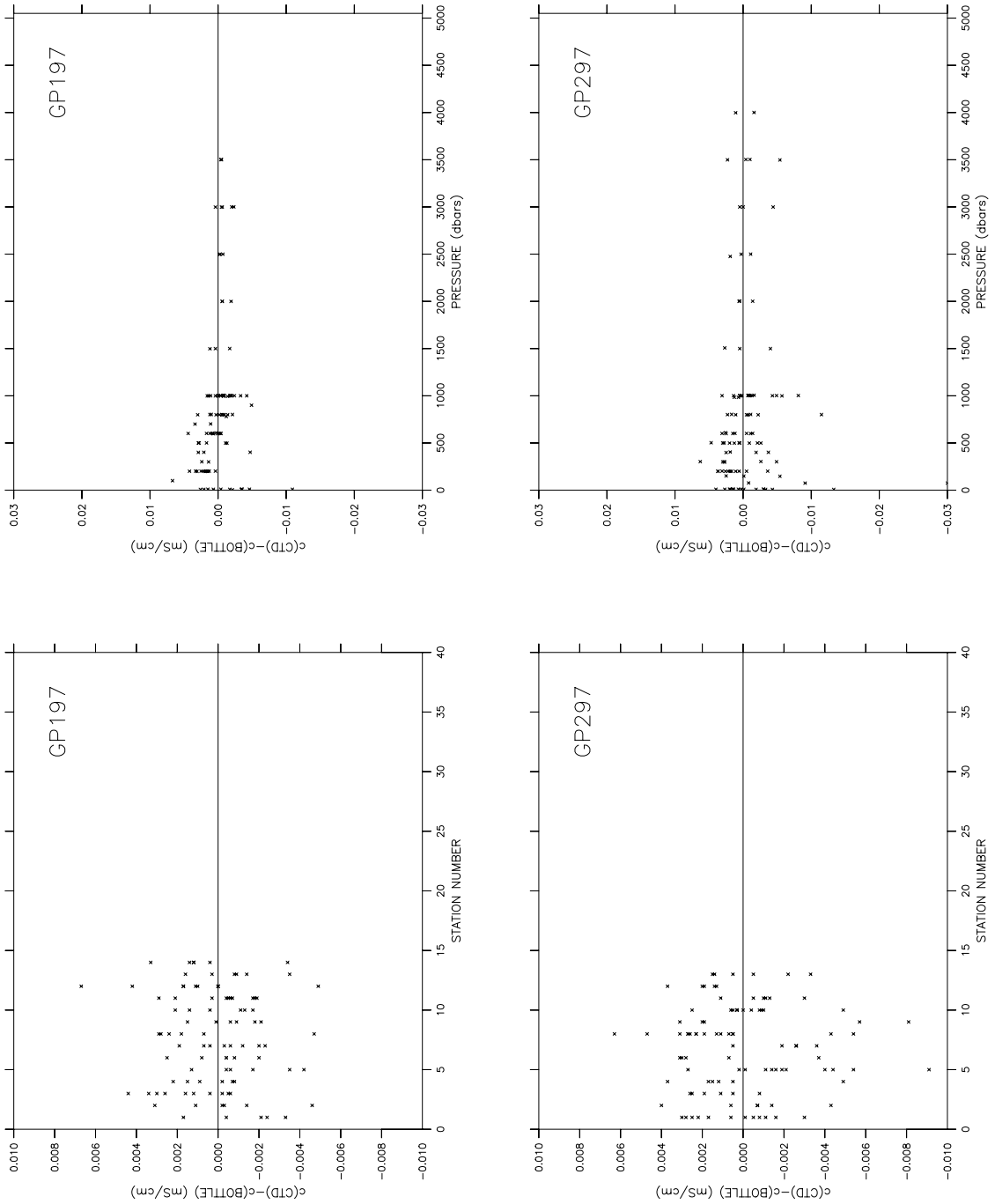

Figure 2a: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP197 (upper panels) and GP297 (lower panels).

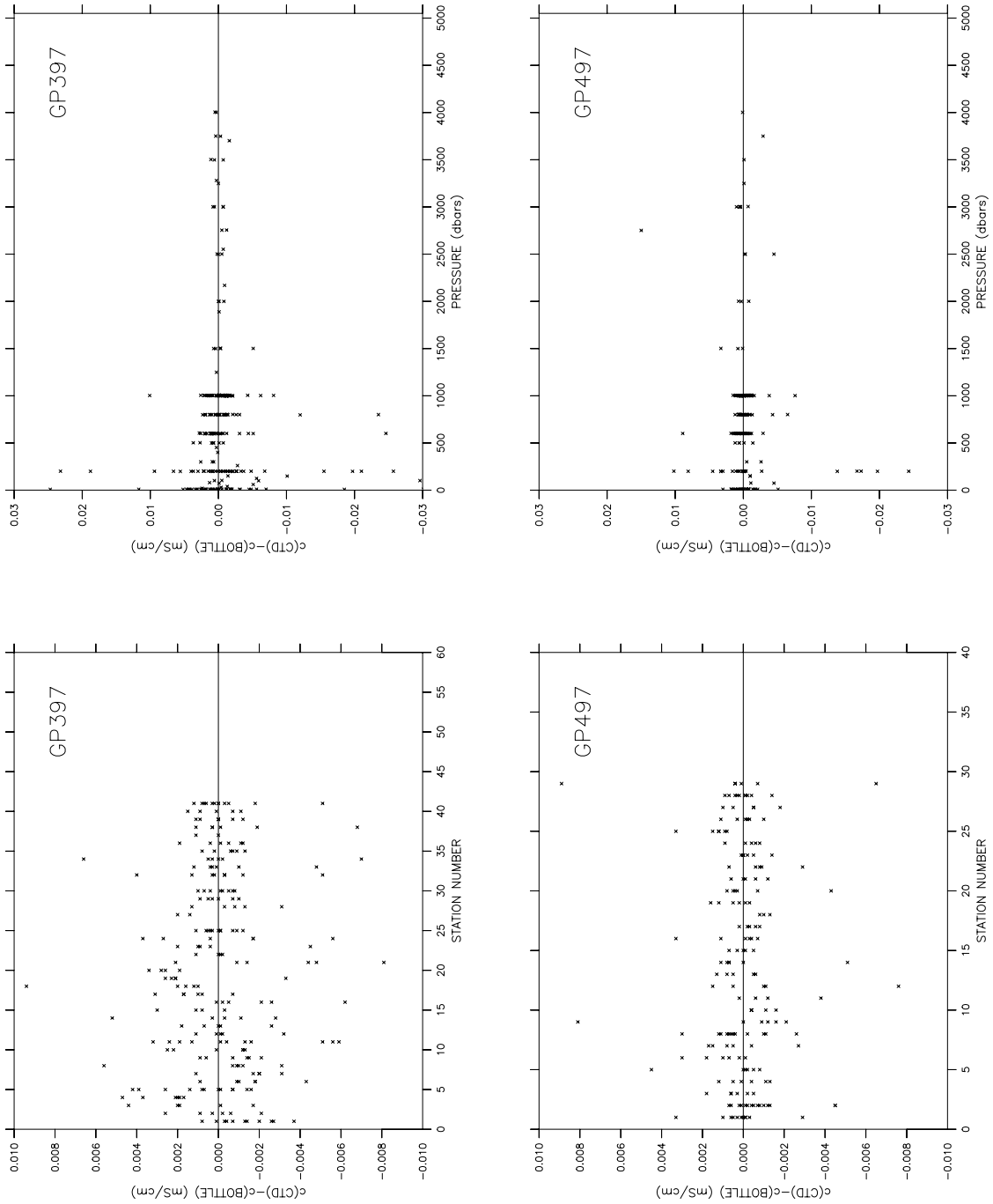

Figure 2b: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP397 (upper panels) and GP497 (lower panels).

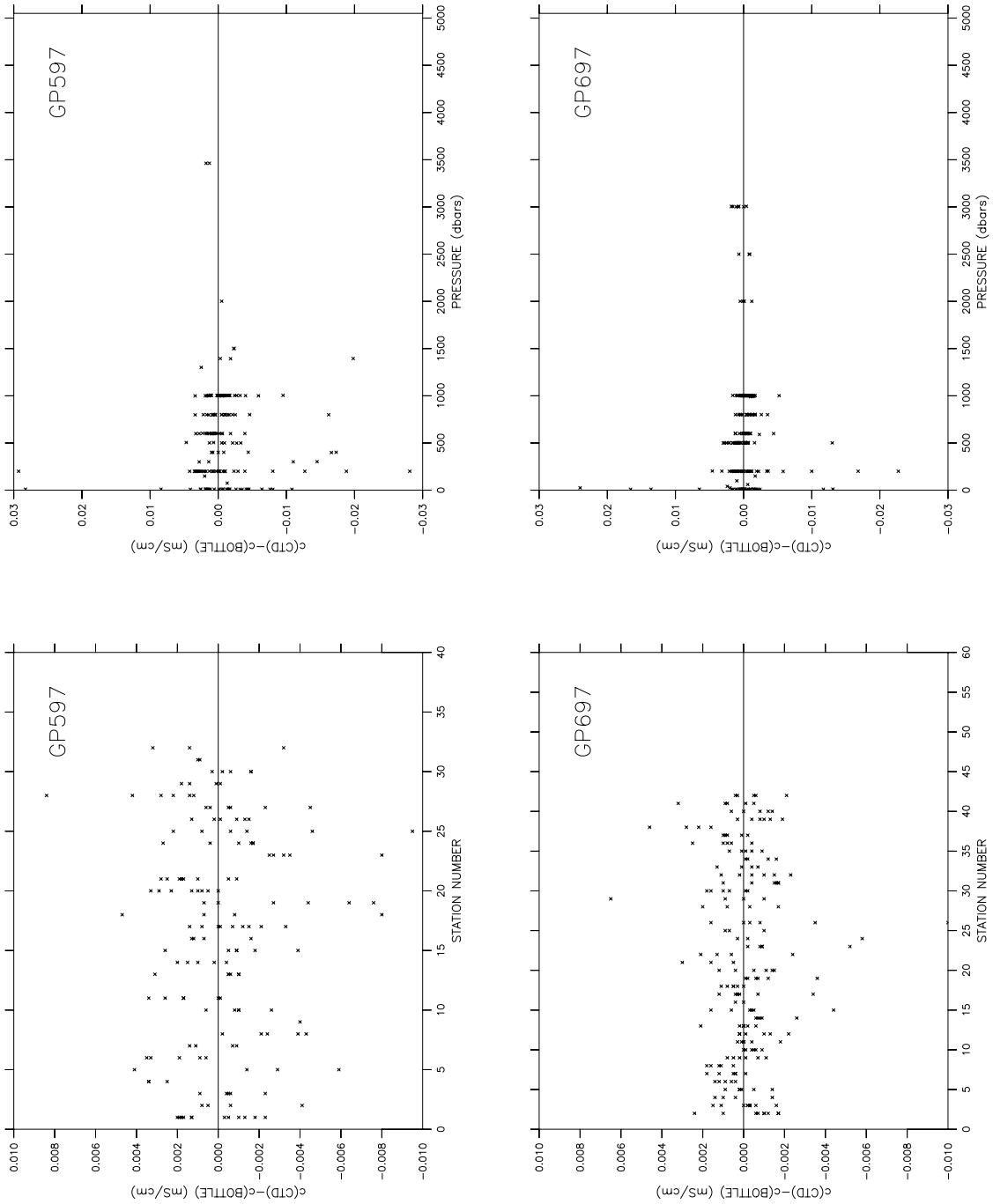

Figure 2c: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP597 (upper panels) and GP697 (lower panels).

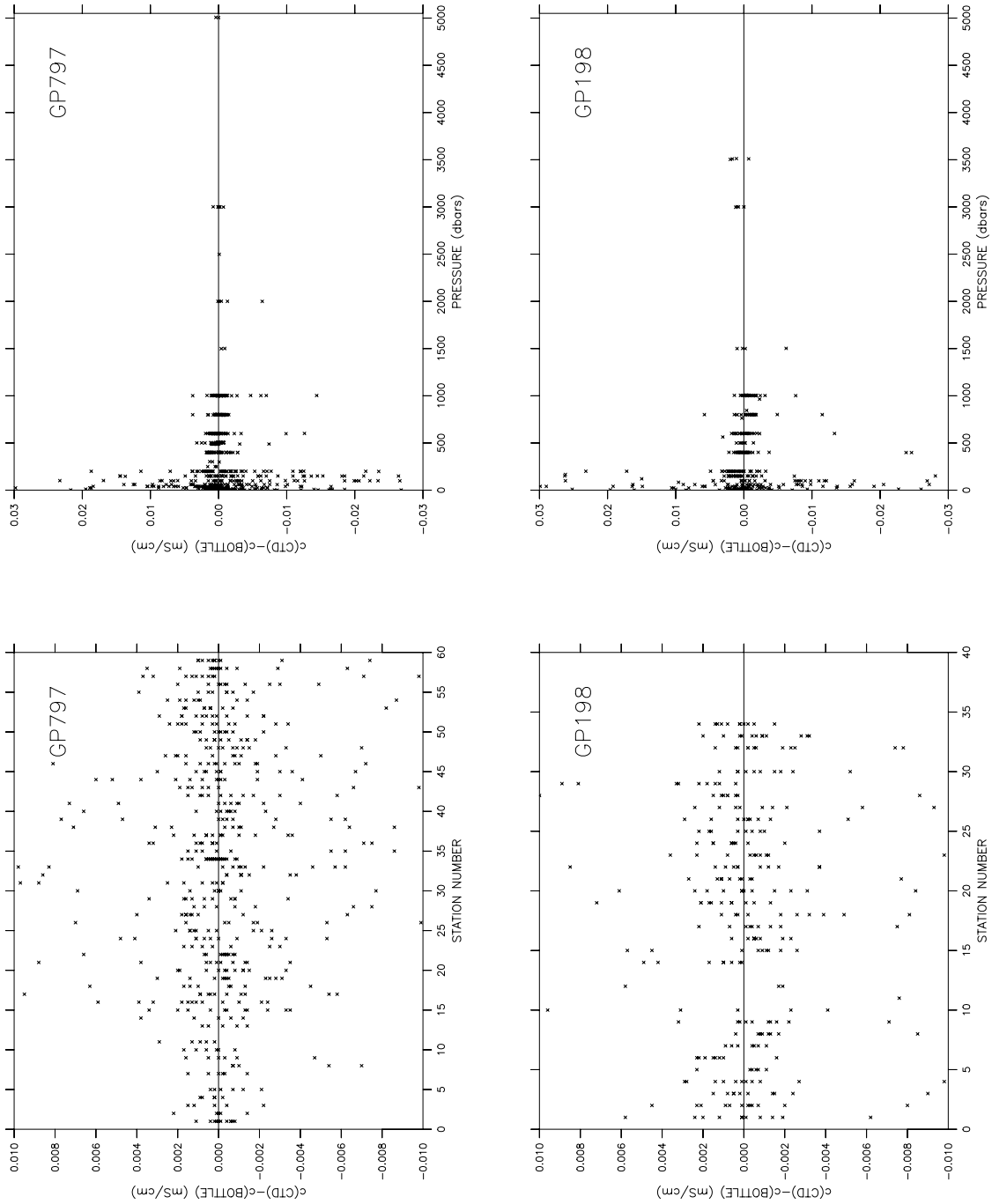

Figure 2d: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP797 (upper panels) and GP198 (lower panels).

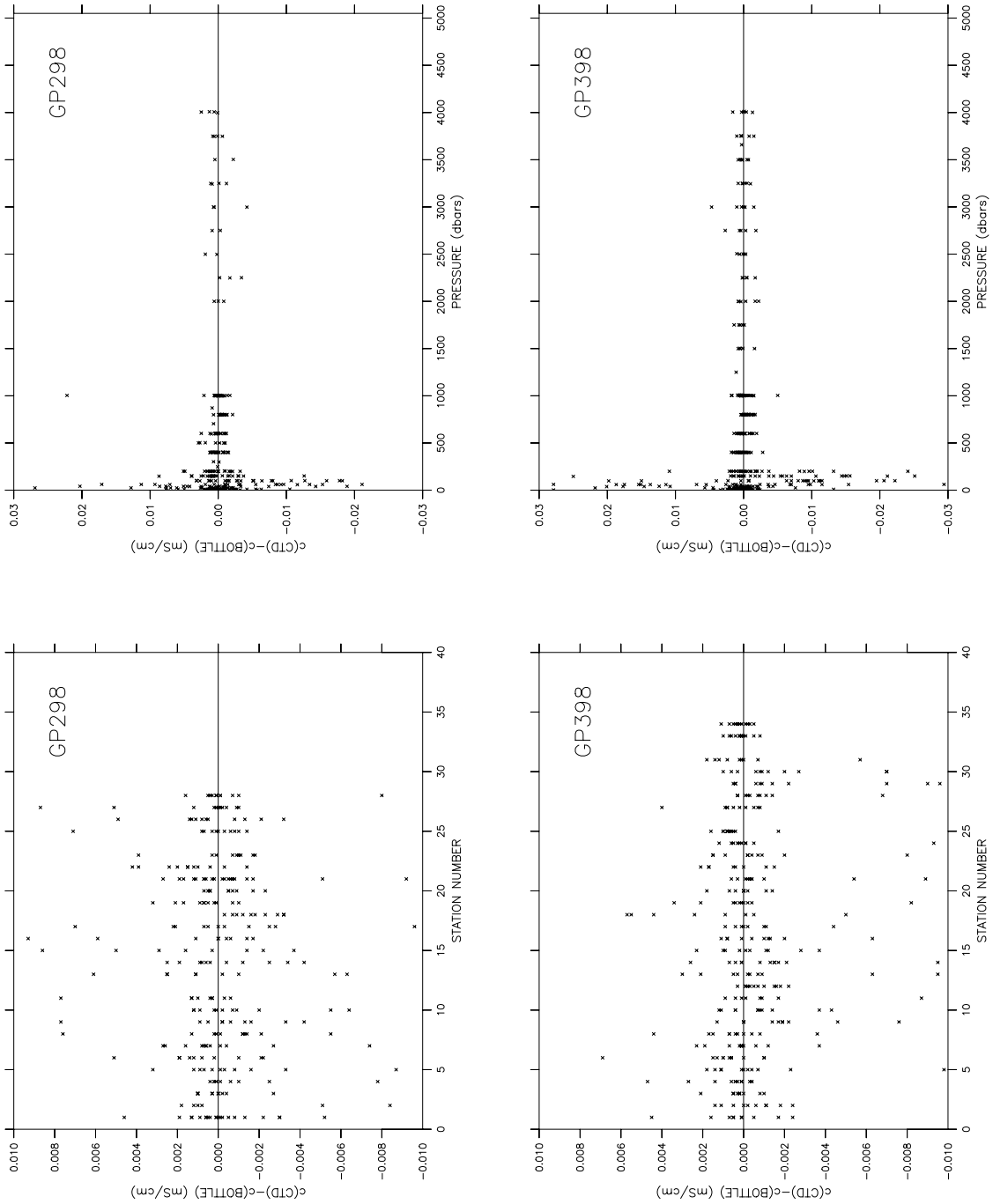

Figure 2e: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP298 (upper panels) and GP398 (lower panels).

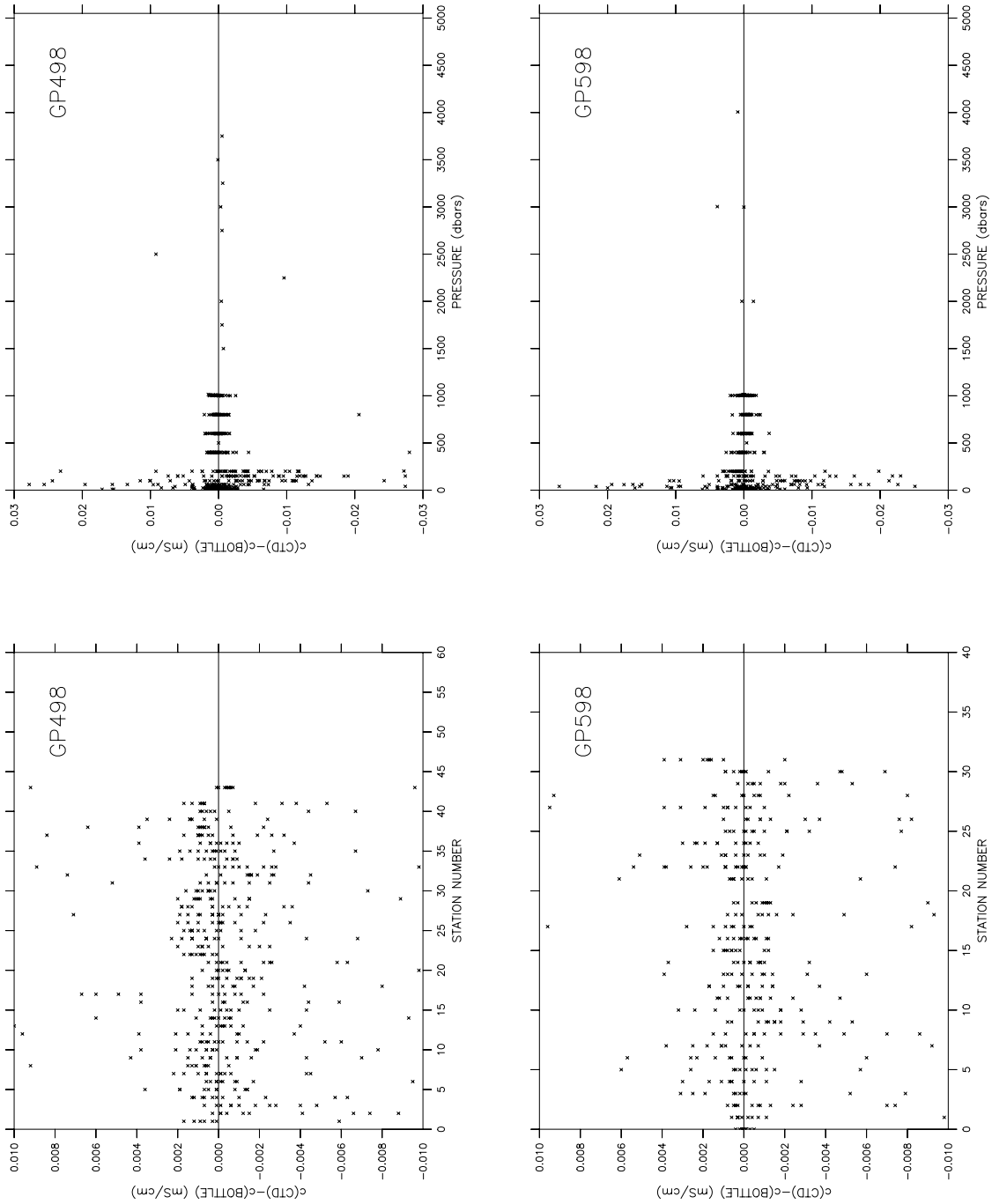

Figure 2f: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP498 (upper panels) and GP598 (lower panels).

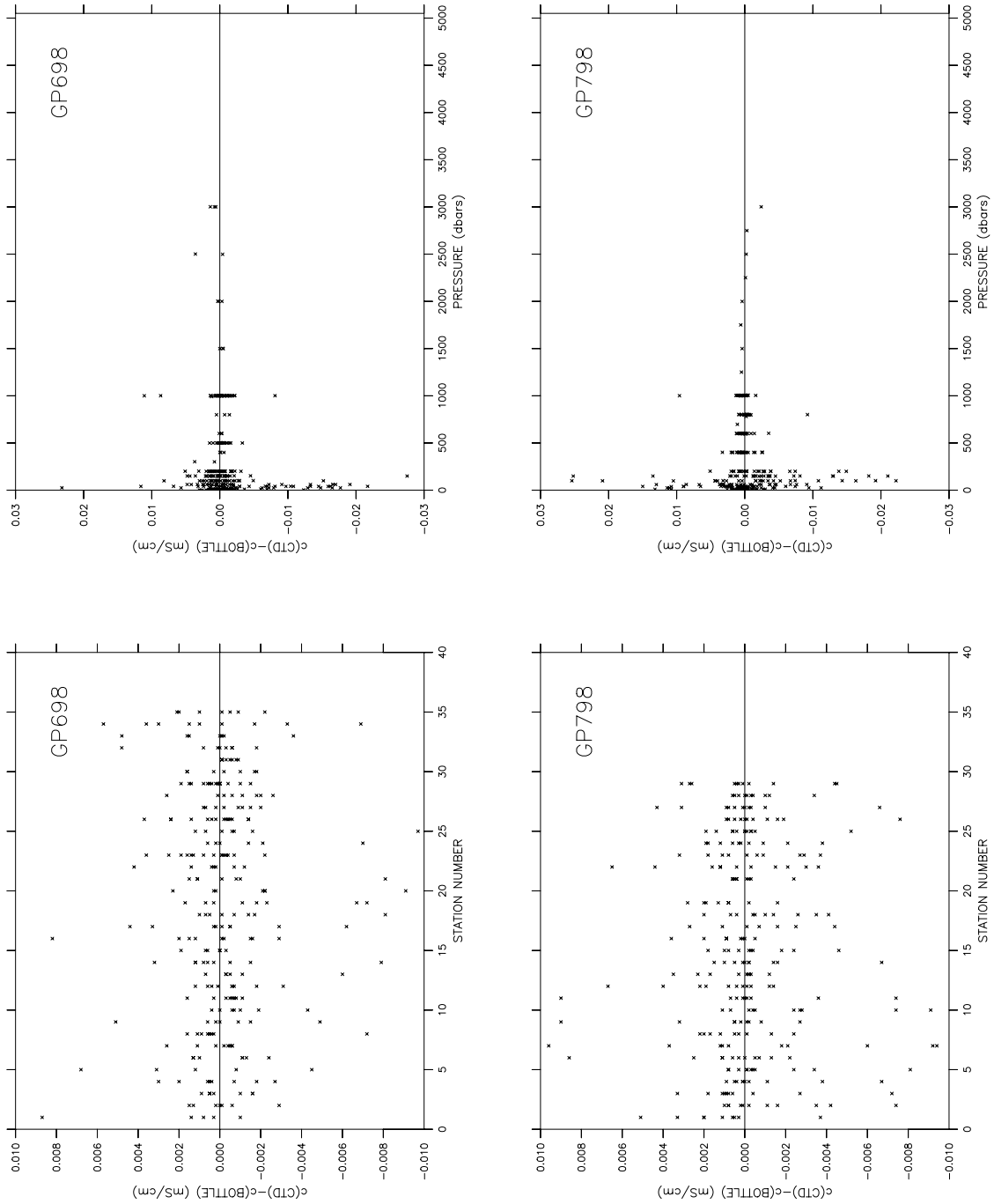

Figure 2g: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP698 (upper panels) and GP798 (lower panels).

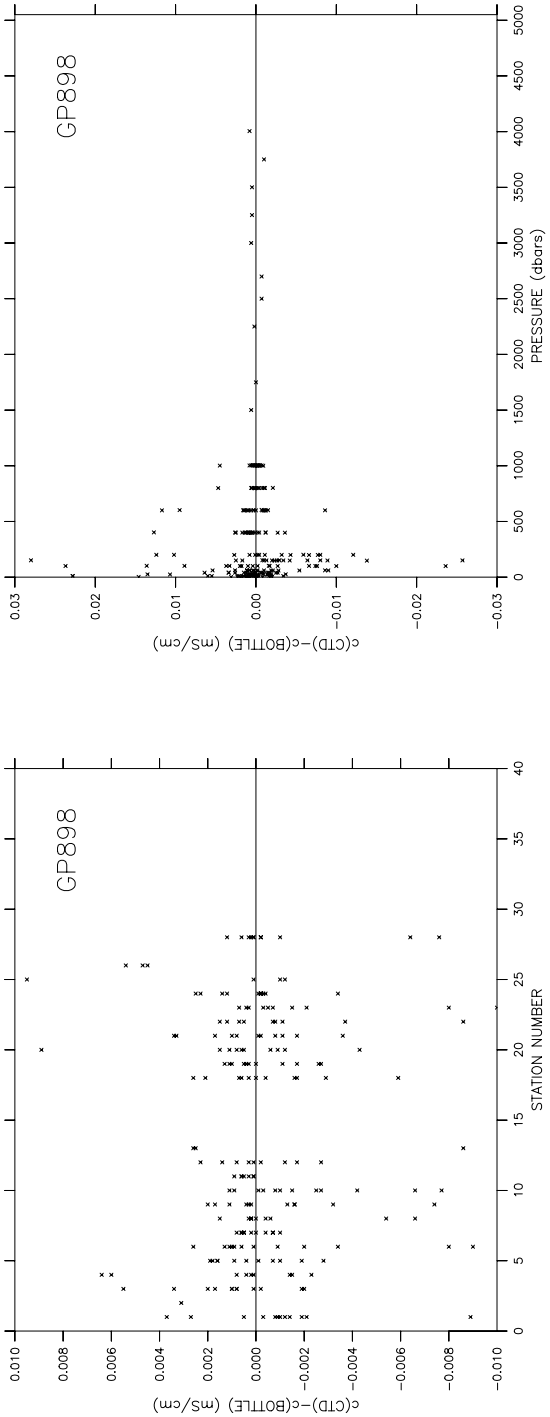

Figure 2h: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP898.

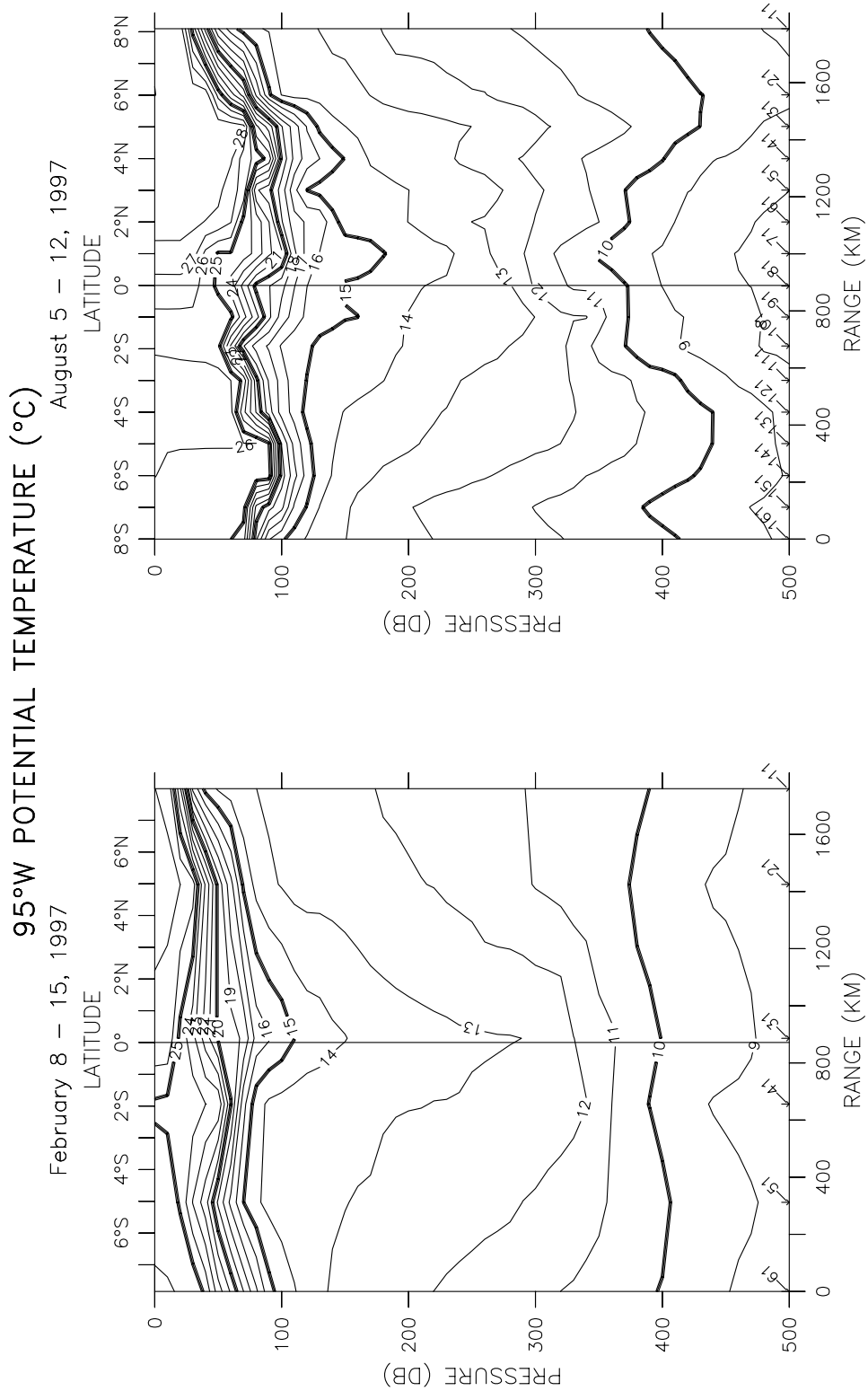

Figure 3: GP1-97-KA winter and GP5-97-KA summer potential temperature (°C) sections along 95°W. Contour intervals are 1°C.

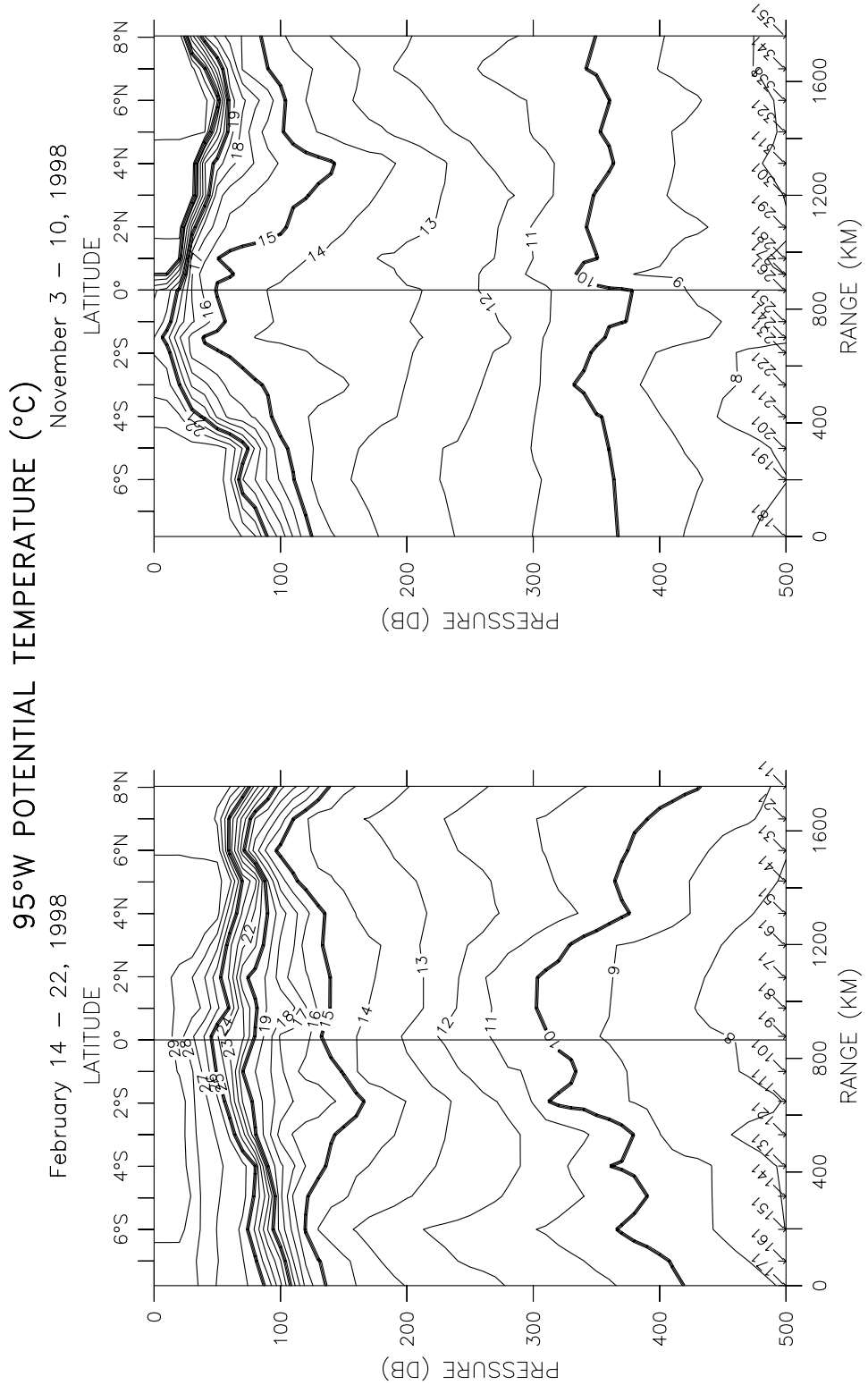

Figure 4: GP1-98-KA winter and GP6-98-RB fall potential temperature (°C) sections along 95°W. Contour intervals are 1°C.

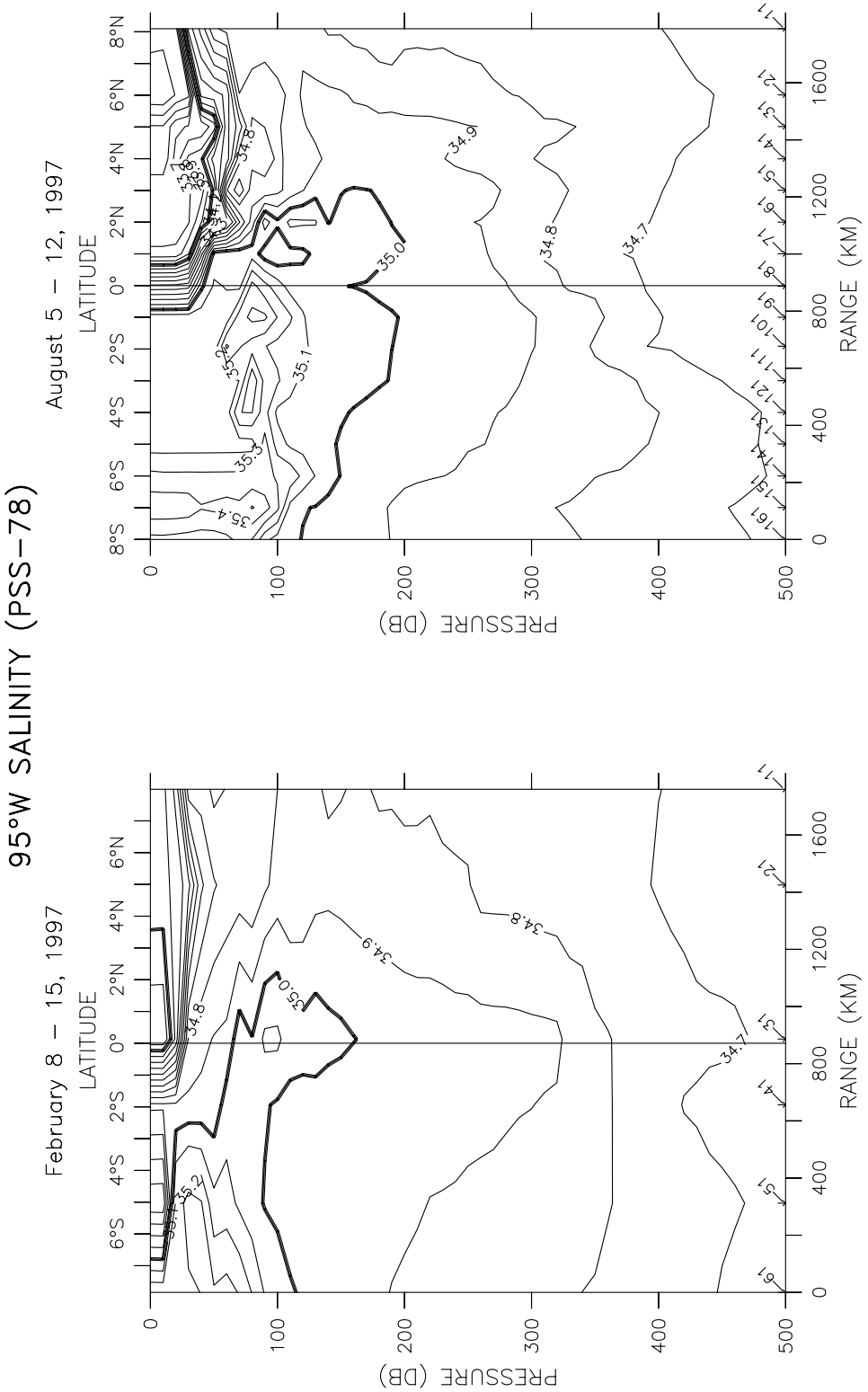

Figure 5: GP1-97-KA winter and GP5-97-KA summer salinity (PSS-78) sections along 95°W. Contour intervals are 0.1 PSS.

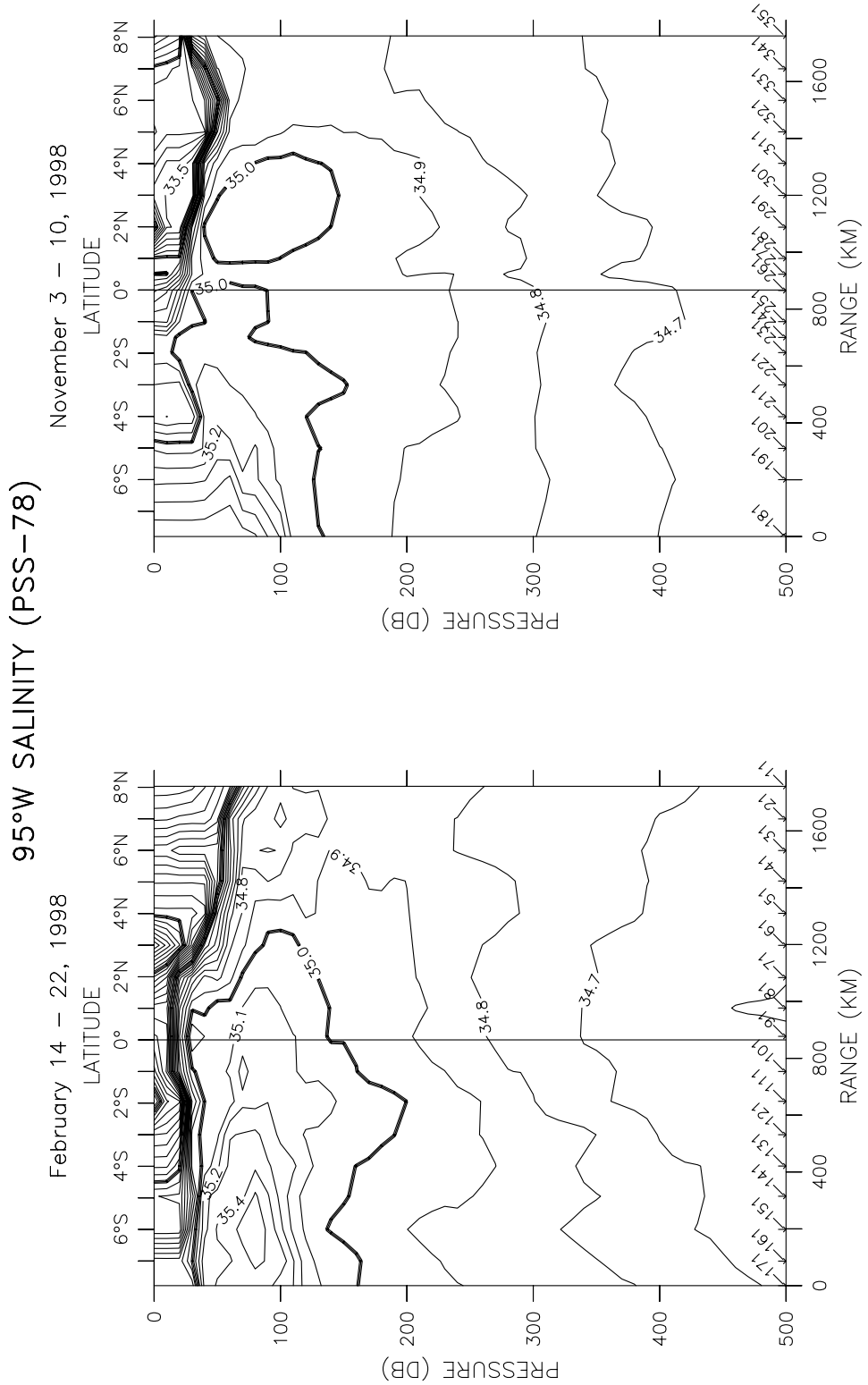

Figure 6: GP1-98-KA winter and GP6-98-RB fall salinity (PSS-78) sections along 95°W. Contour intervals are 0.1 PSS.

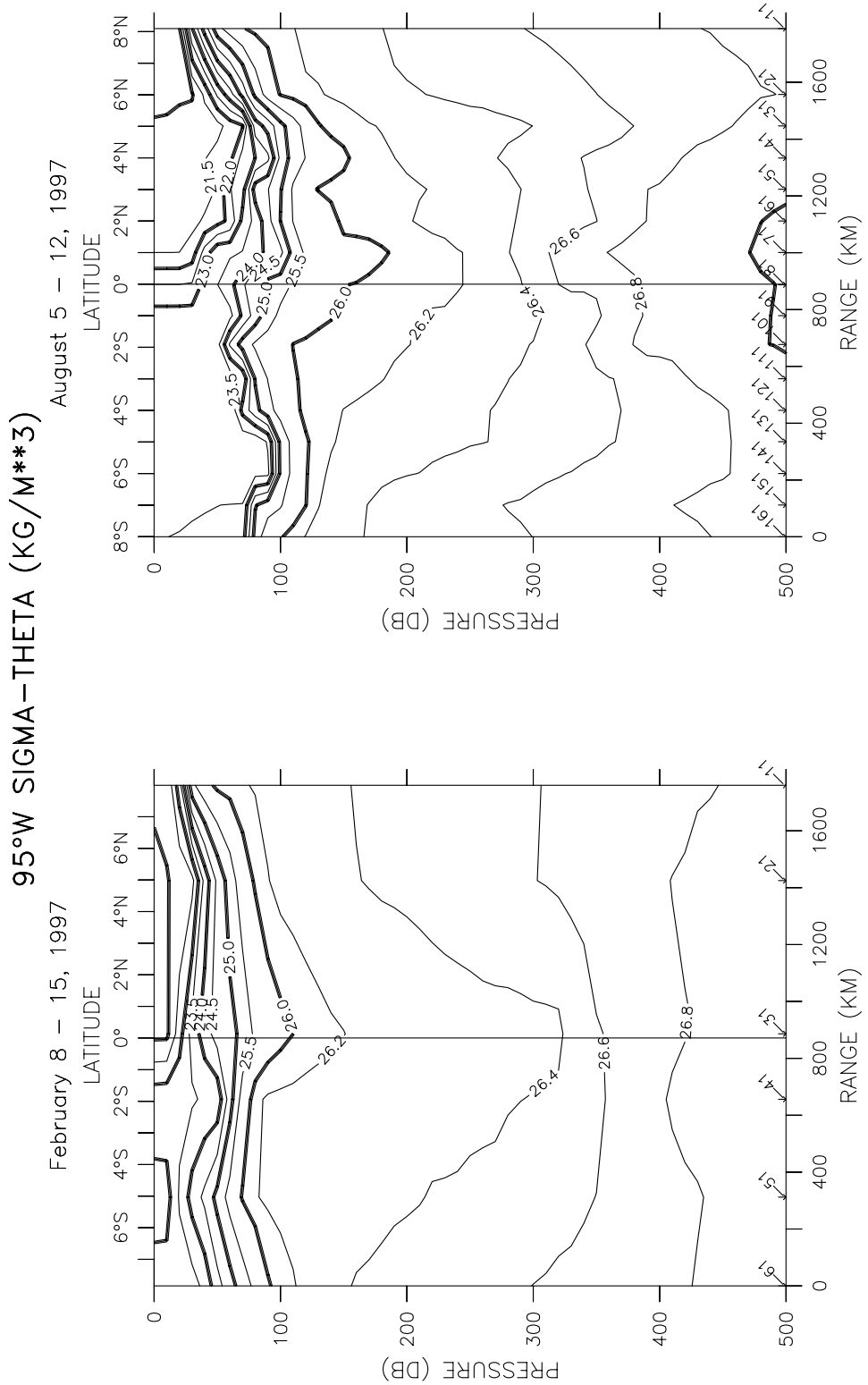

Figure 7: GP1-97-KA winter and GP5-97-KA summer potential density (kg/m^3) sections along 95°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

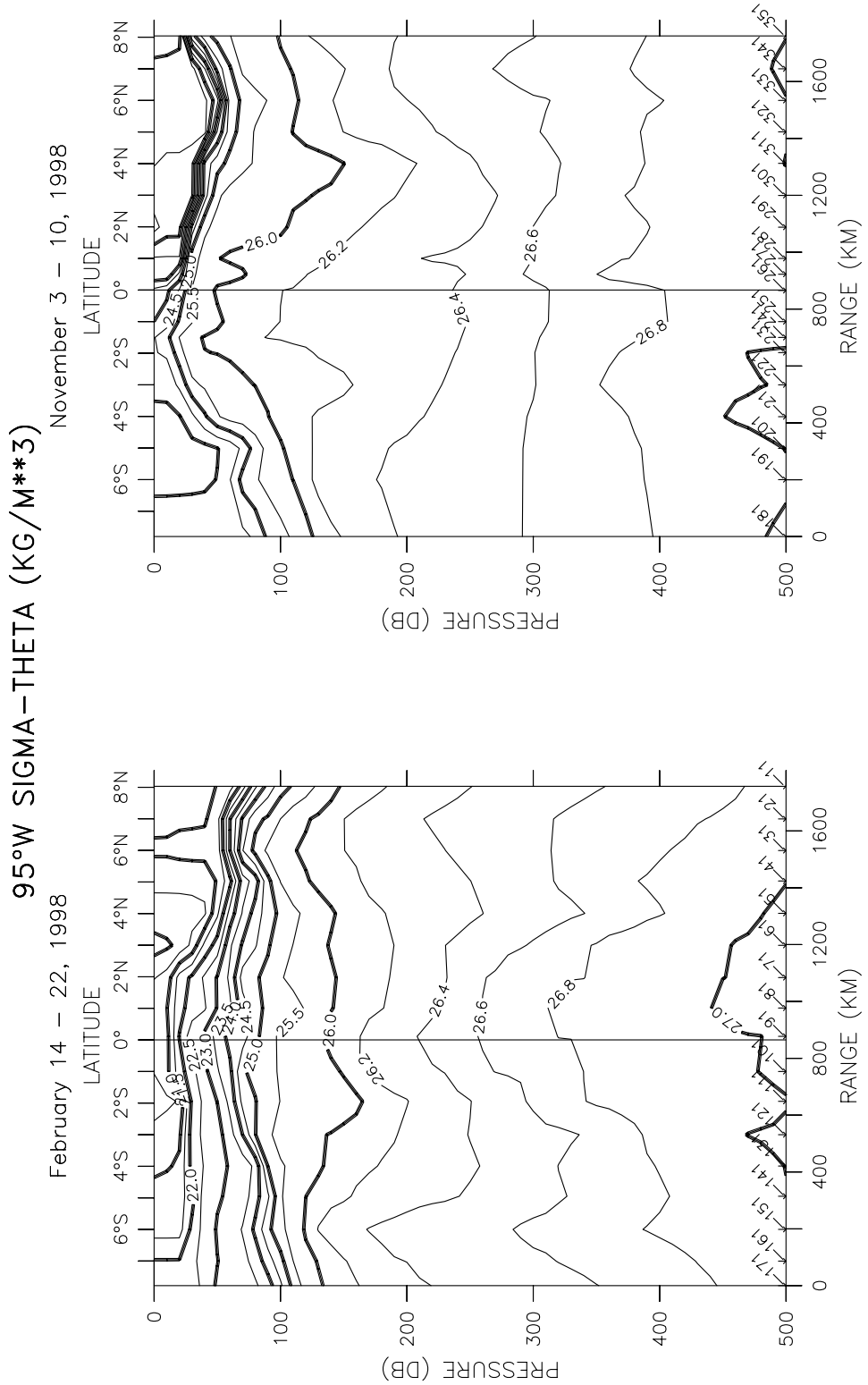

Figure 8: GP1-98-KA winter and GP6-98-RB fall potential density (kg/m^3) sections along 95°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

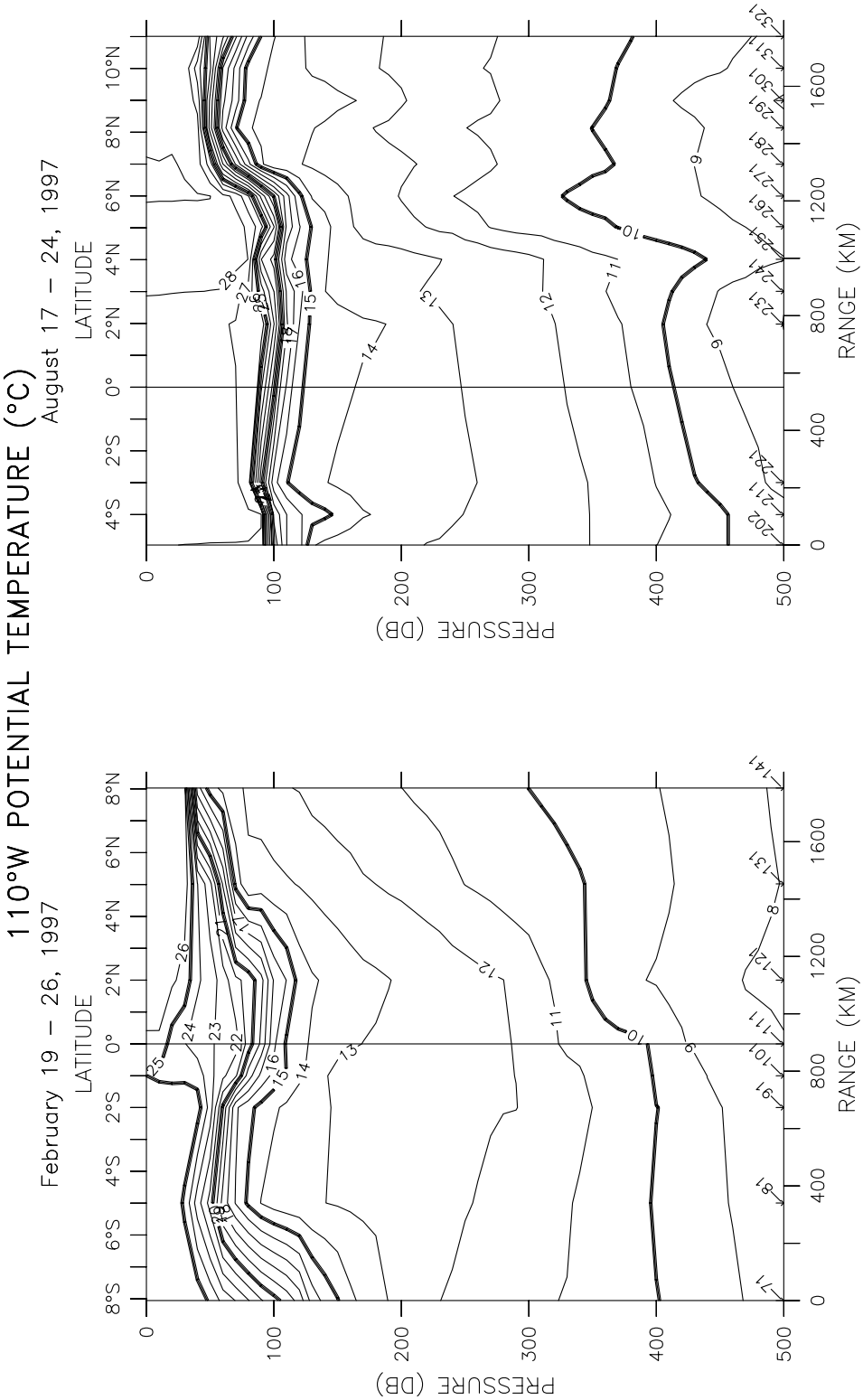

Figure 9: GP1-97-KA winter and GP5-97-KA summer potential temperature (°C) sections along 110°W. Contour intervals are 1°C.

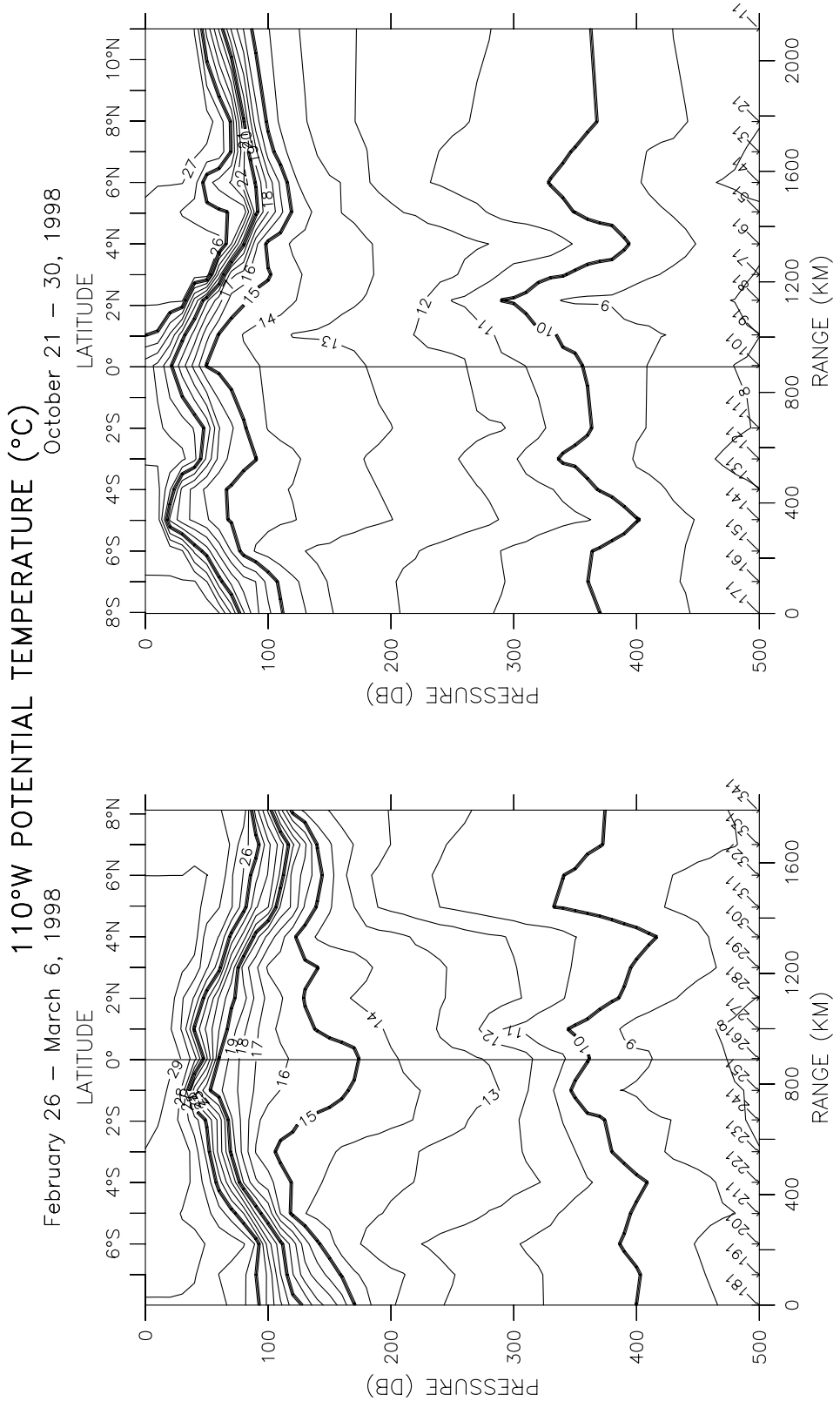

Figure 10: GP1-98-KA winter and GP6-98-RB fall potential temperature (°C) sections along 110°W. Contour intervals are 1°C.

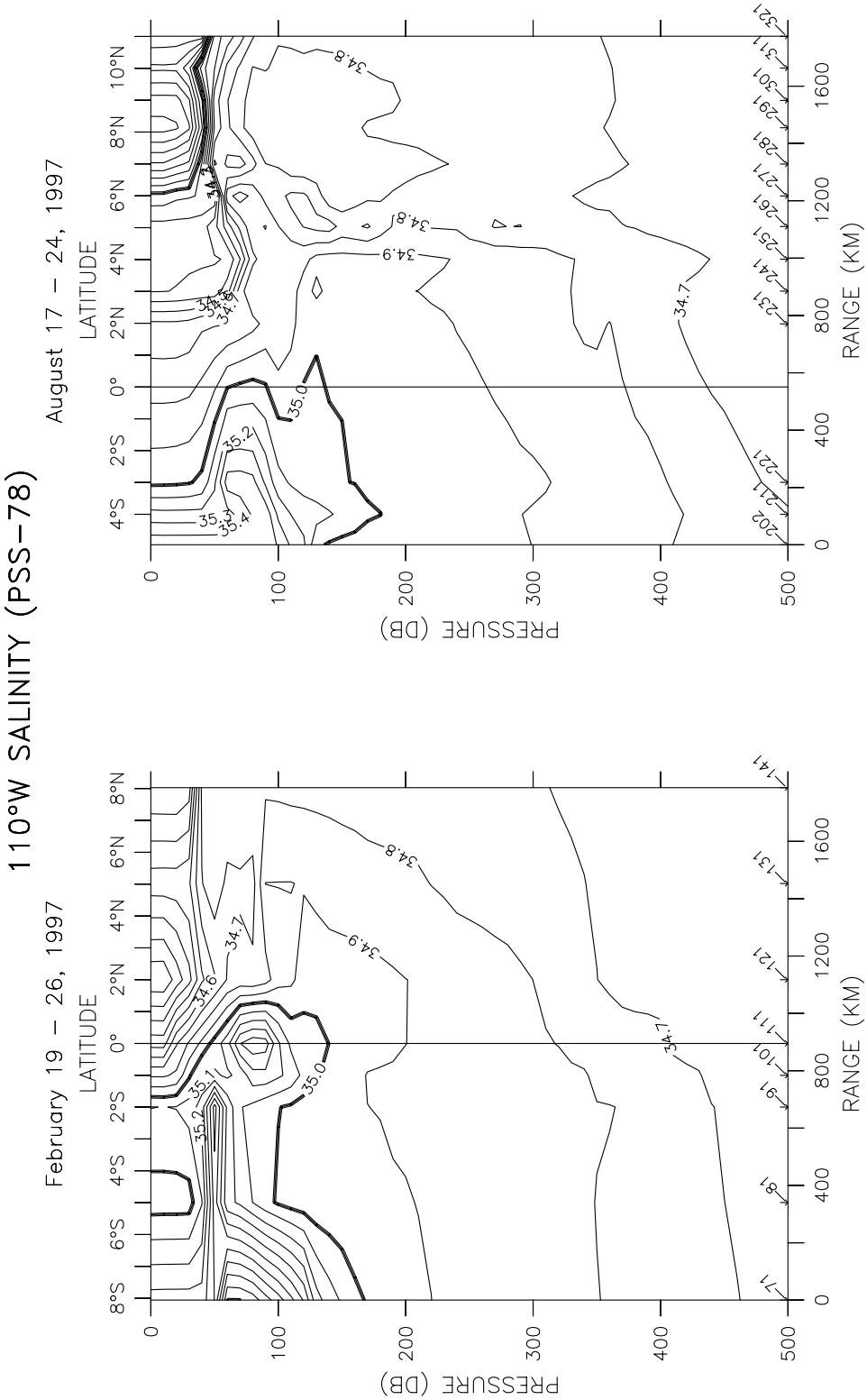

Figure 11: GP1-97-KA winter and GP5-97-KA summer salinity (PSS-78) sections along 110°W. Contour intervals are 0.1 PSS.

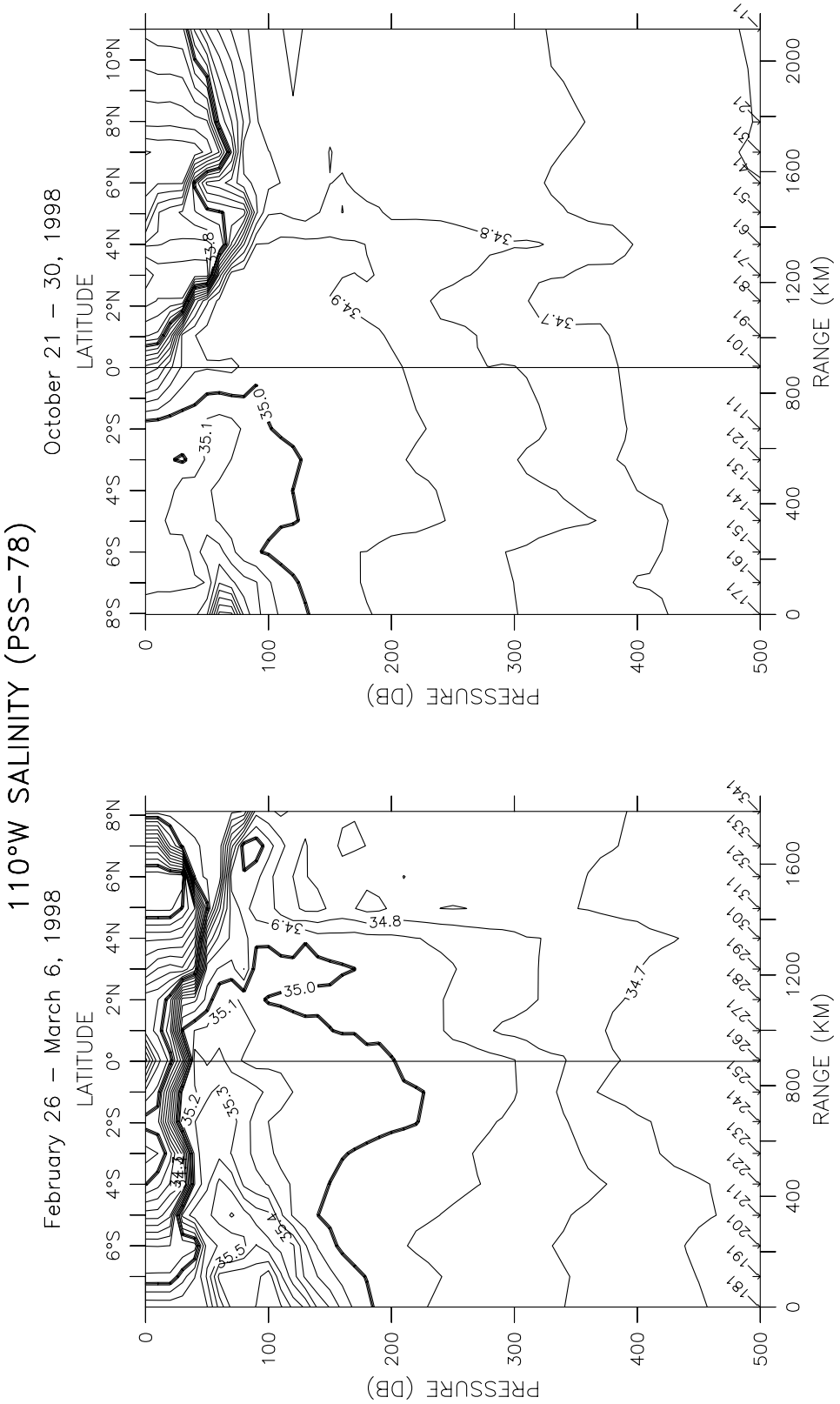

Figure 12: GP1-98-KA winter and GP6-98-RB fall salinity (PSS-78) sections along 110°W. Contour intervals are 0.1 PSS.

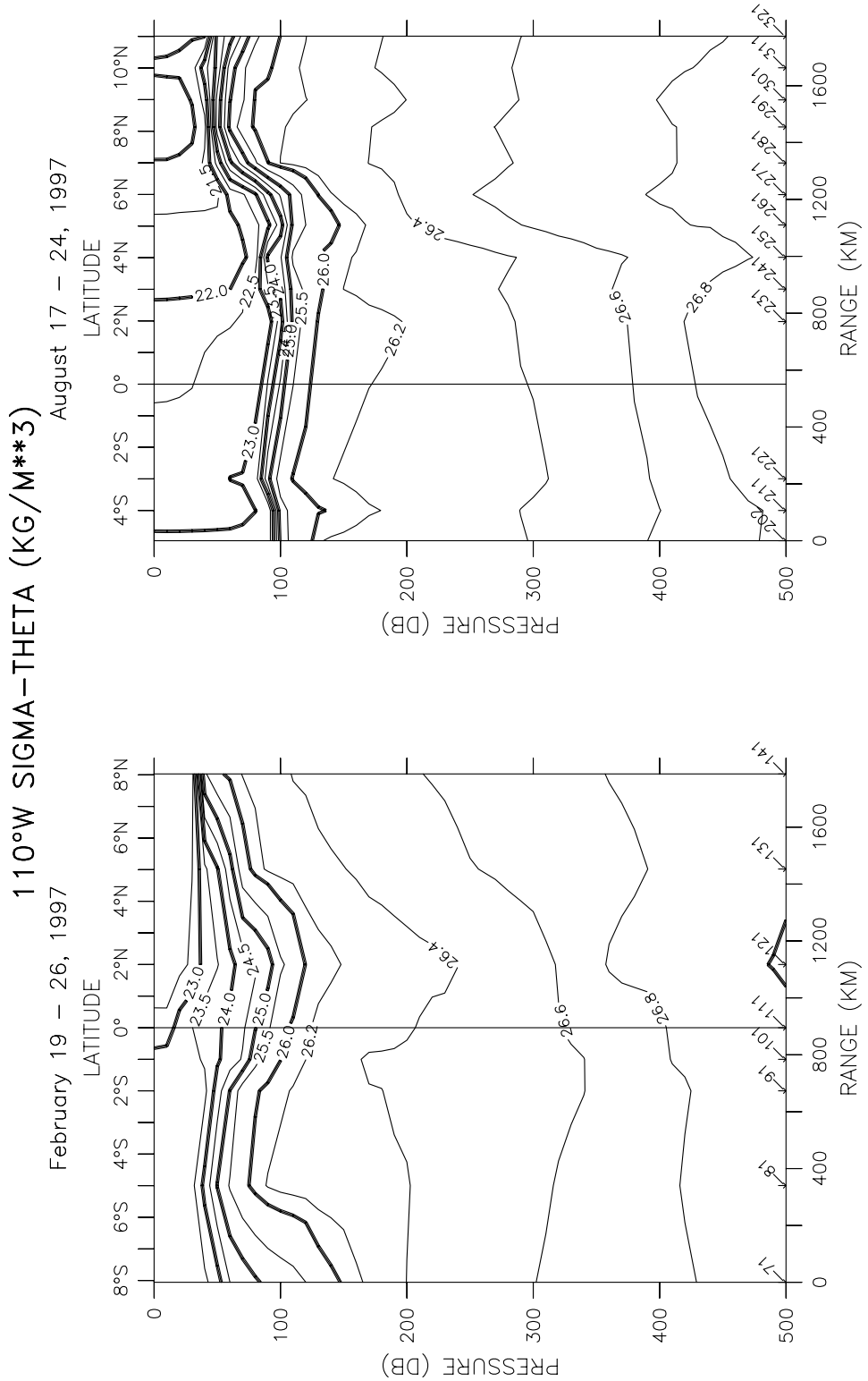

Figure 13: GP1-97-KA winter and GP5-97-KA summer potential density (kg/m^3) sections along 110°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

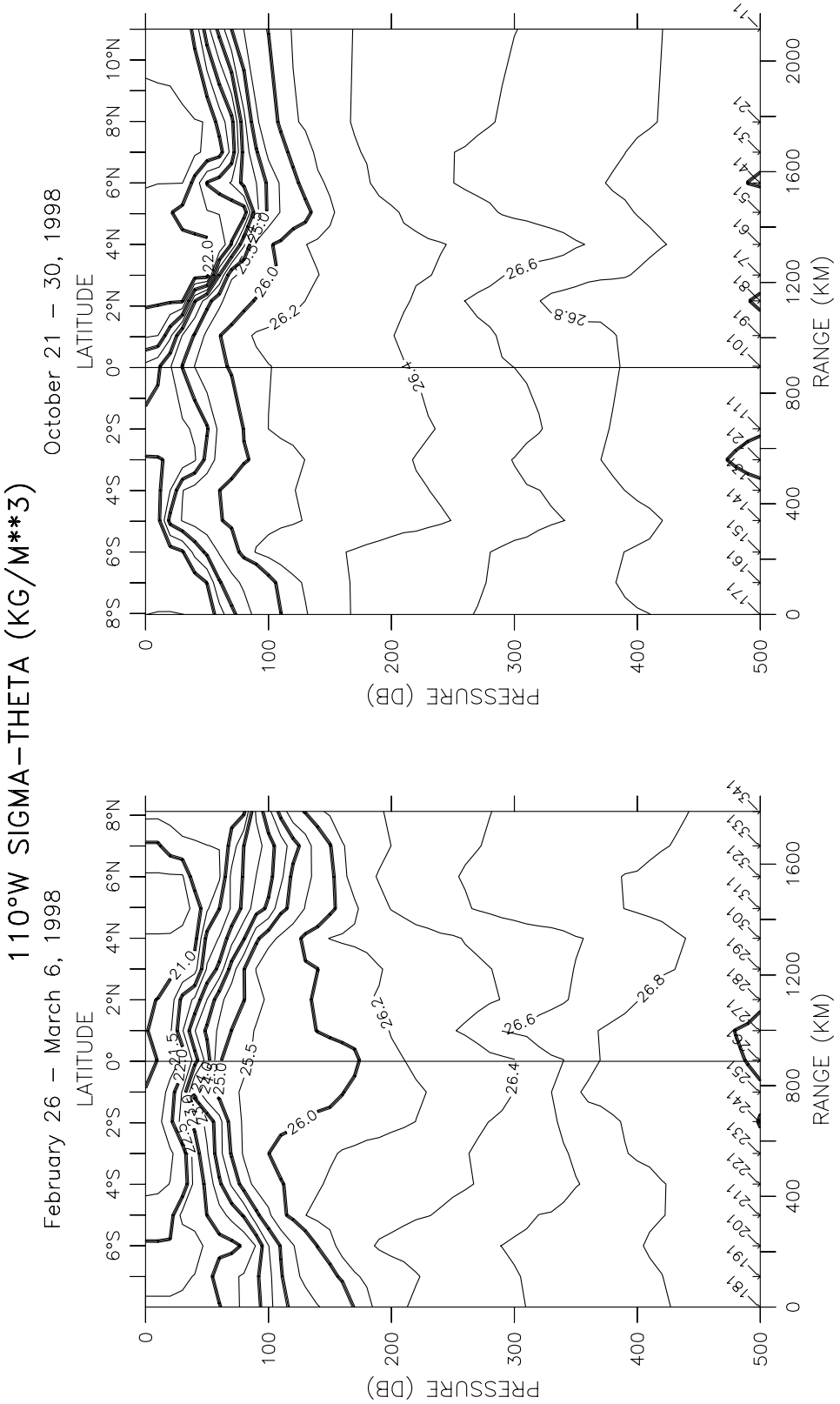

Figure 14: GP1-98-KA winter and GP6-98-RB fall potential density (kg/m^3) sections along 110°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

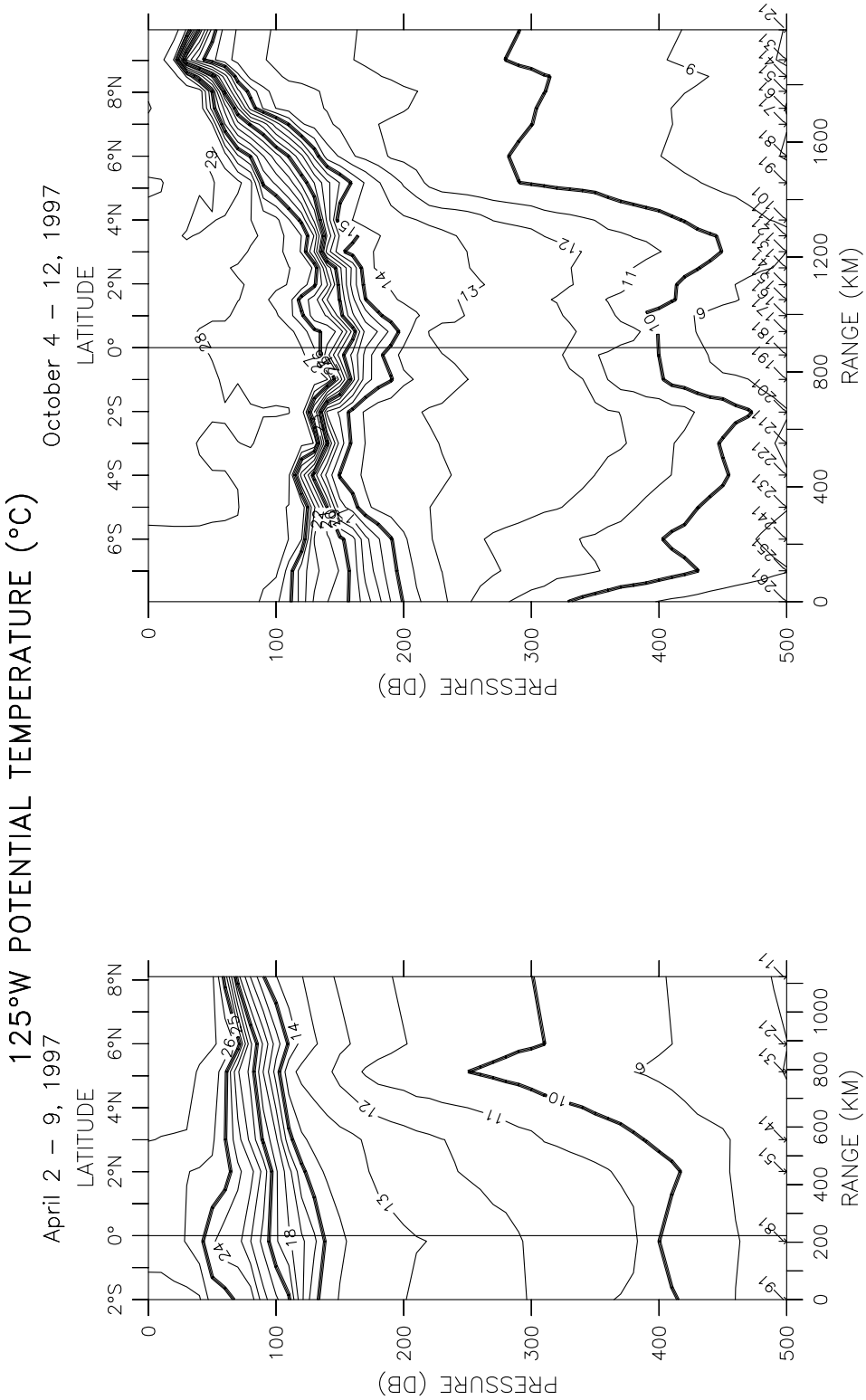

Figure 15: GP2-97-KA spring and GP6-97-KA fall potential temperature (°C) sections along 125°W. Contour intervals are 1°C.

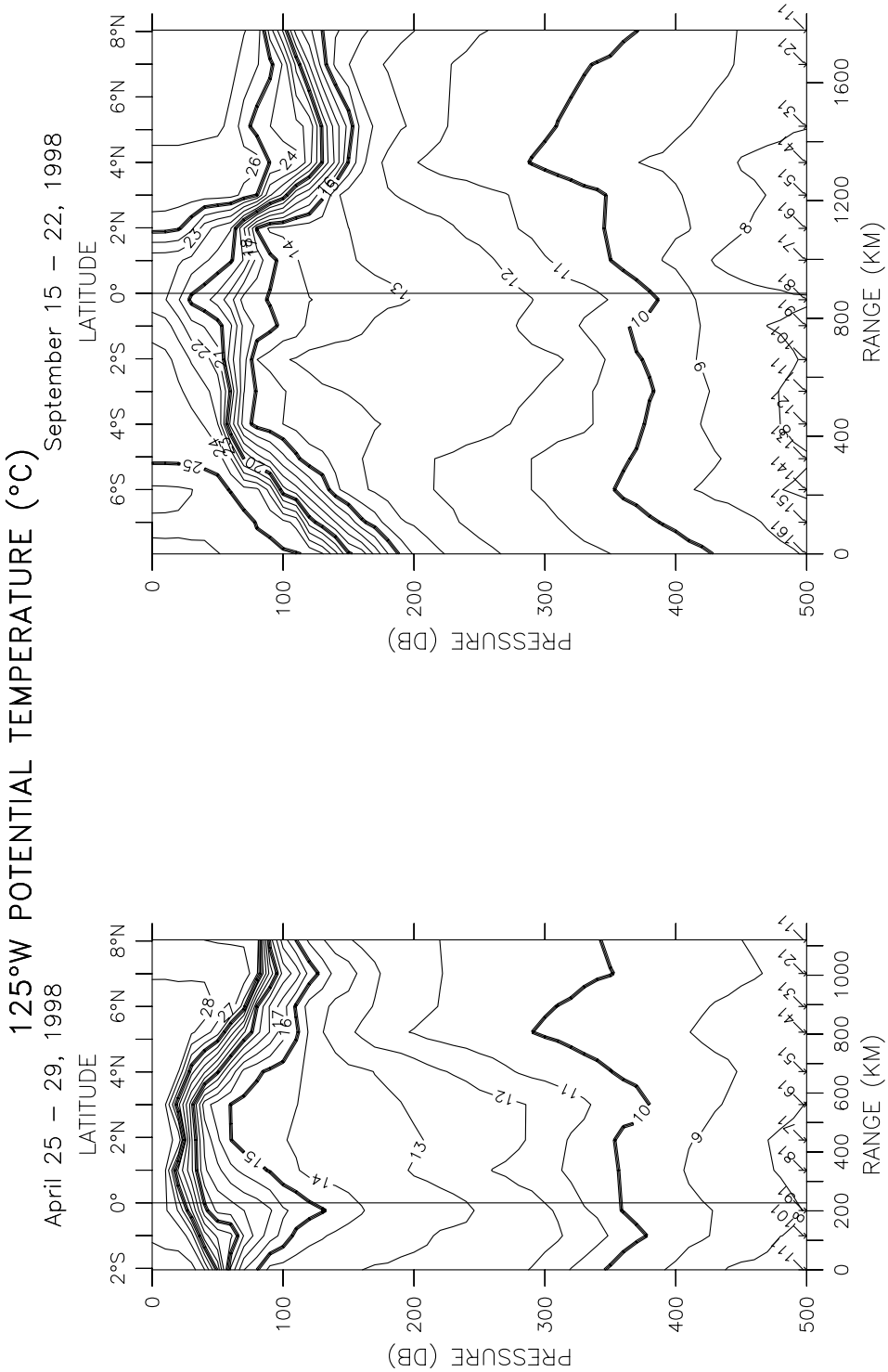

Figure 16: GP2-98-KA spring and GP5-98-KA summer potential temperature (°C) sections along 125°W. Contour intervals are 1°C.

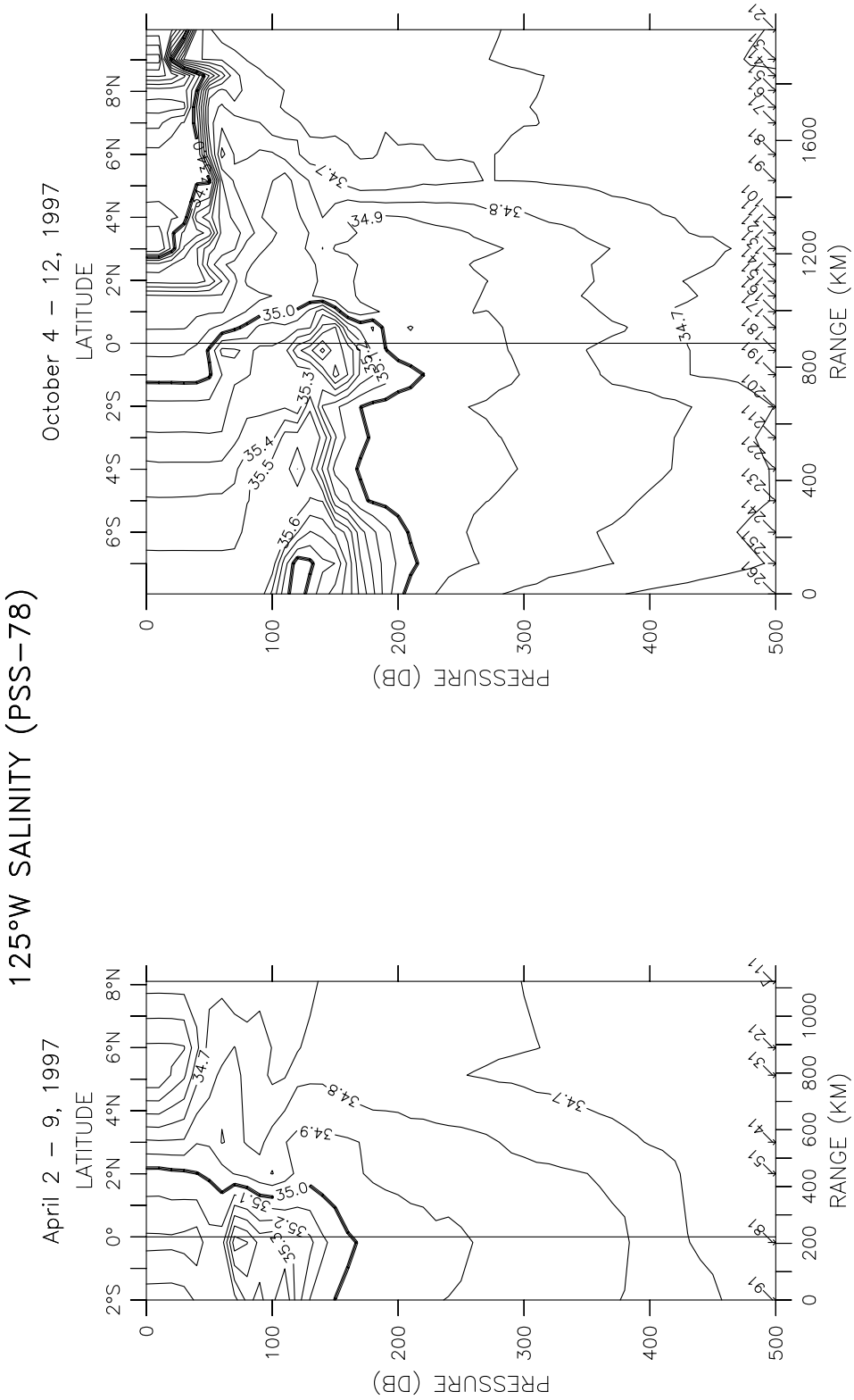

Figure 17: GP2-97-KA spring and GP6-97-KA fall salinity (PSS-78) sections along 125°W. Contour intervals are 0.1 PSS.

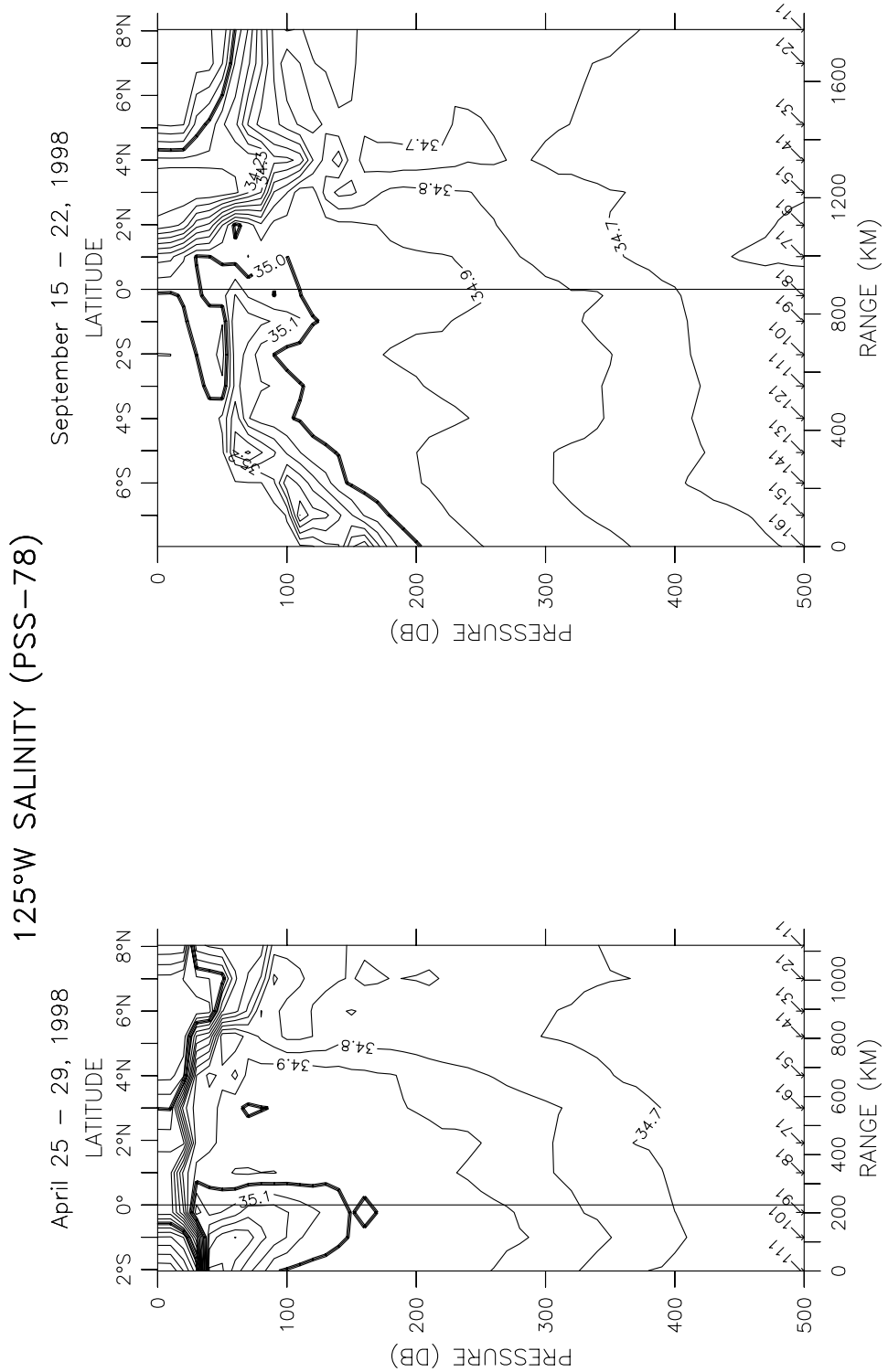

Figure 18: GP2-98-KA spring and GP5-98-KA summer salinity (PSS-78) sections along 125°W. Contour intervals are 0.1 PSS.

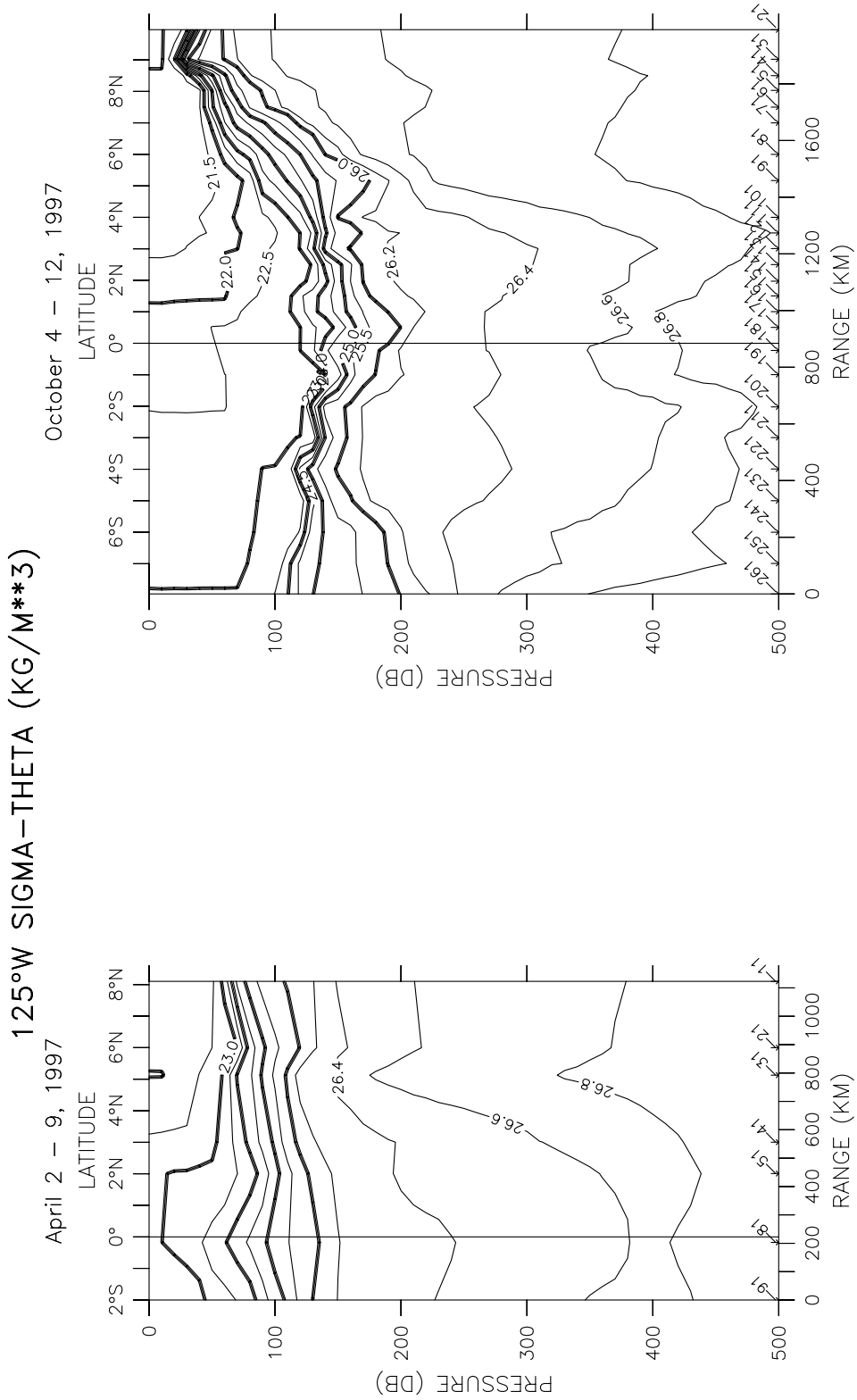

Figure 19: GP2-97-KA spring and GP6-97-KA fall potential density (kg/m^3) sections along 125°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

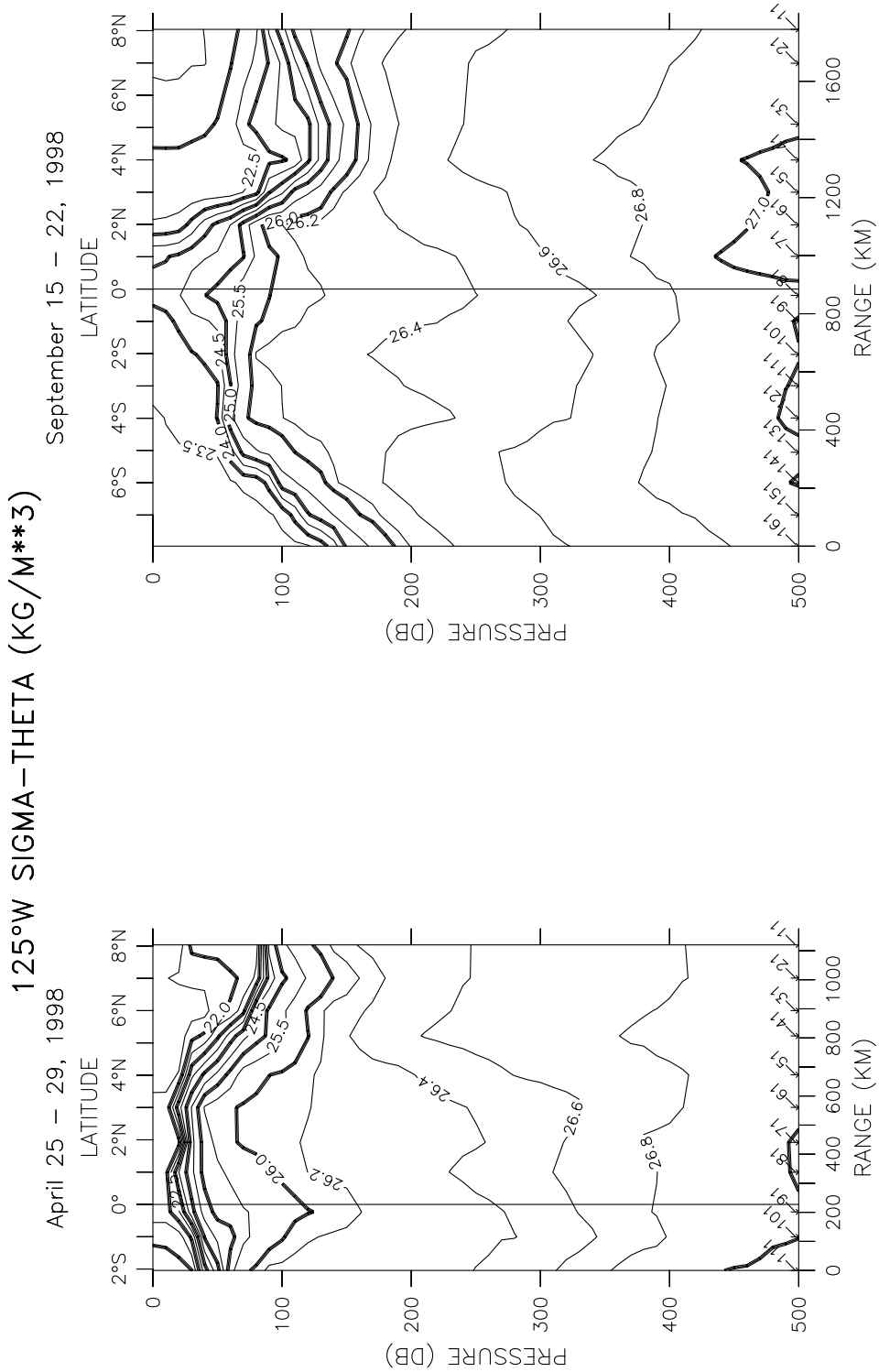

Figure 20: GP2-98-KA spring and GP5-98-KA summer potential density (kg/m^3) sections along 125°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

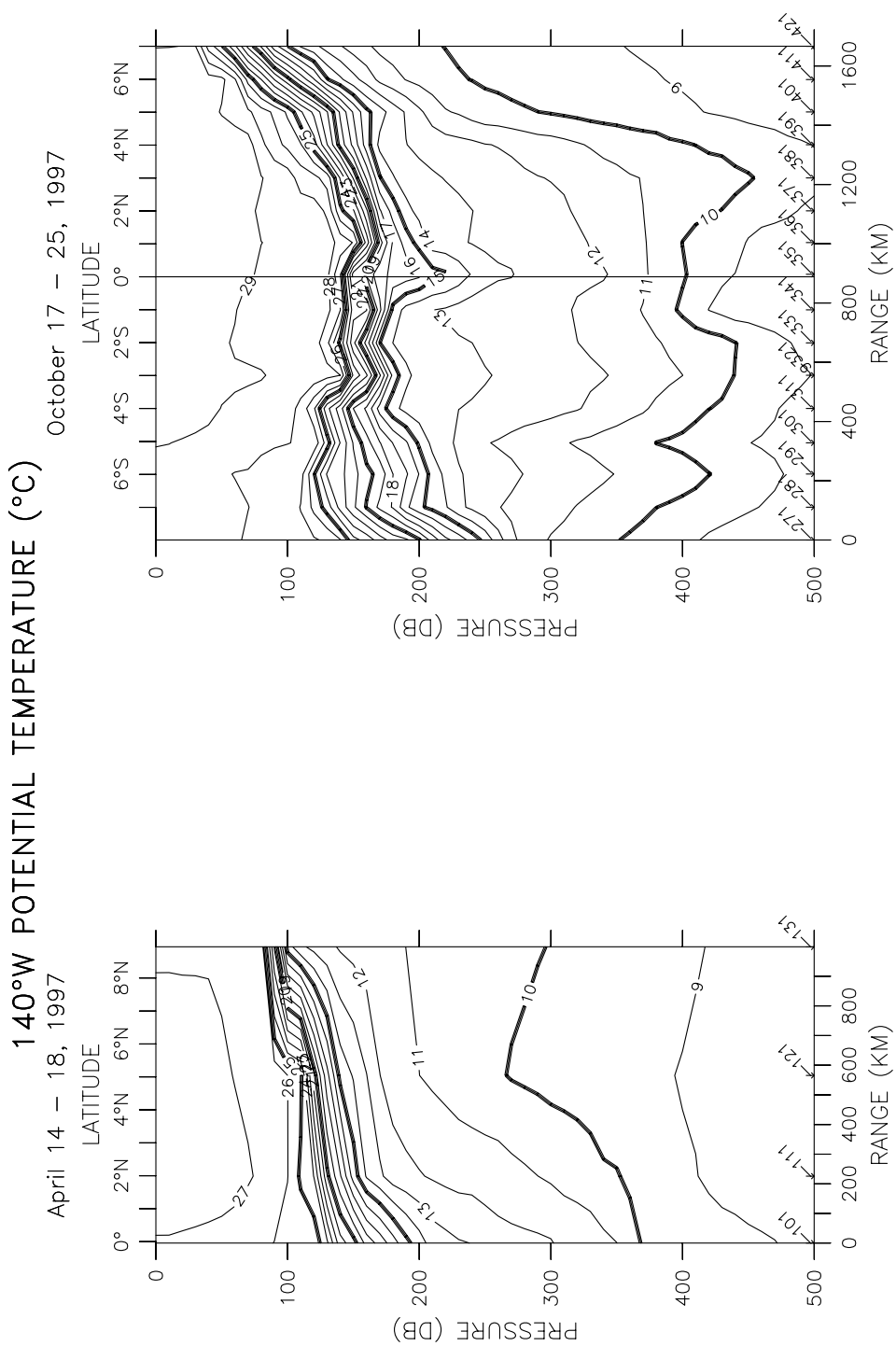

Figure 21: GP2-97-KA spring and GP6-97-KA fall potential temperature (°C) sections along 140°W. Contour intervals are 1°C.

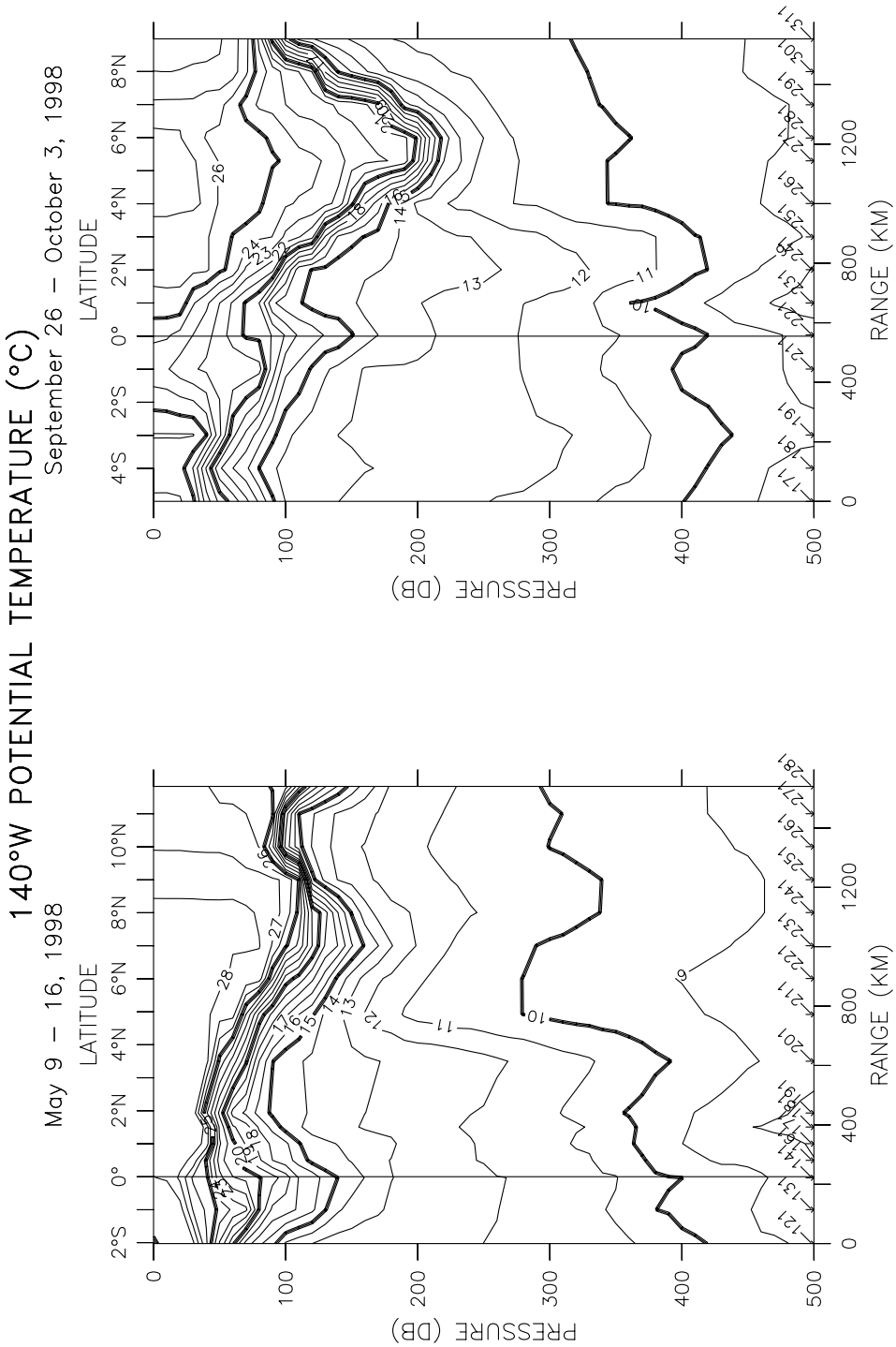

Figure 22: GP2-98-KA spring and GP5-98-KA summer potential temperature (°C) sections along 140°W. Contour intervals are 1°C.

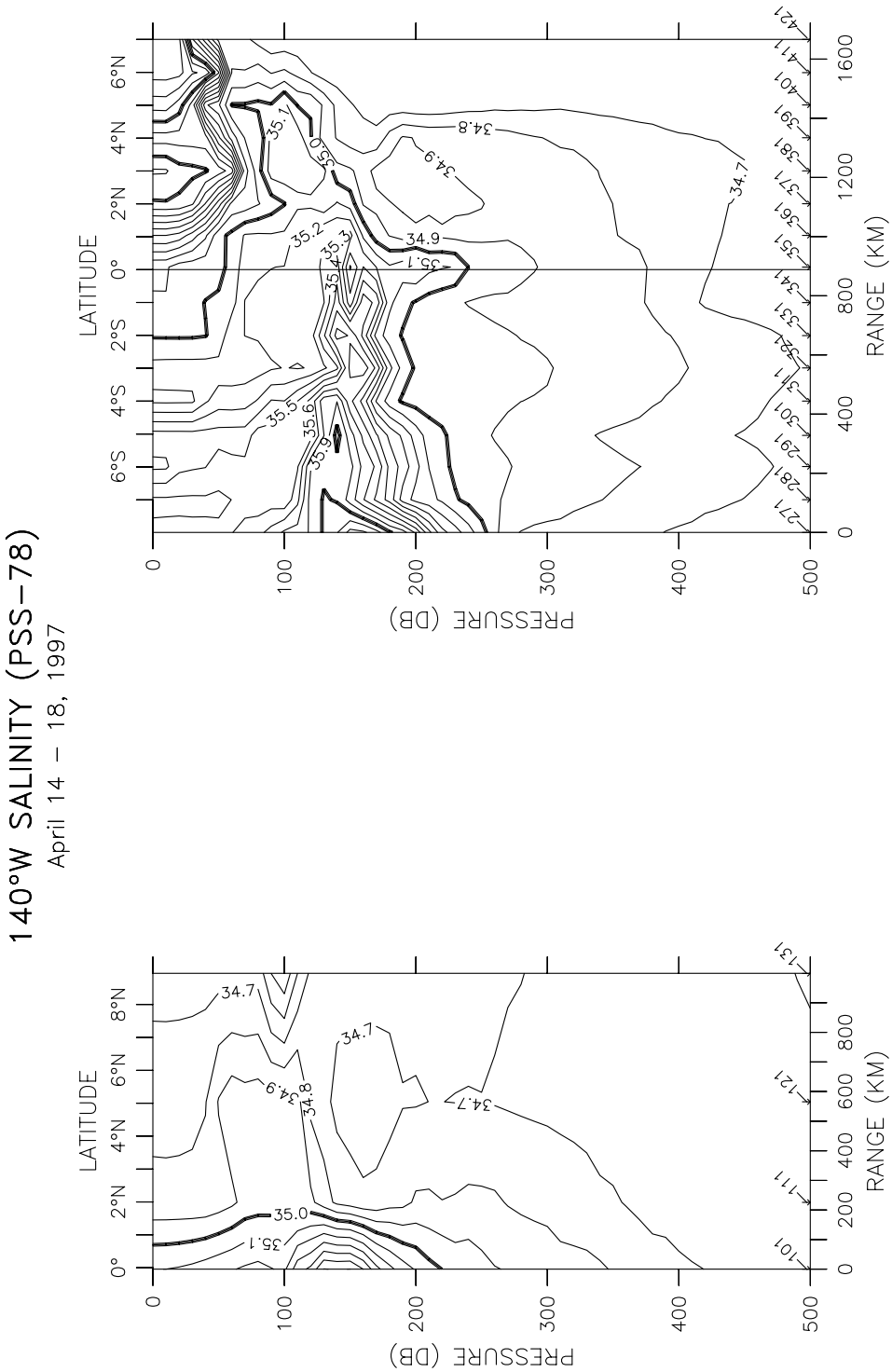

Figure 23: GP2-97-KA spring and GP6-97-KA fall salinity (PSS-78) sections along 140°W. Contour intervals are 0.1 PSS.

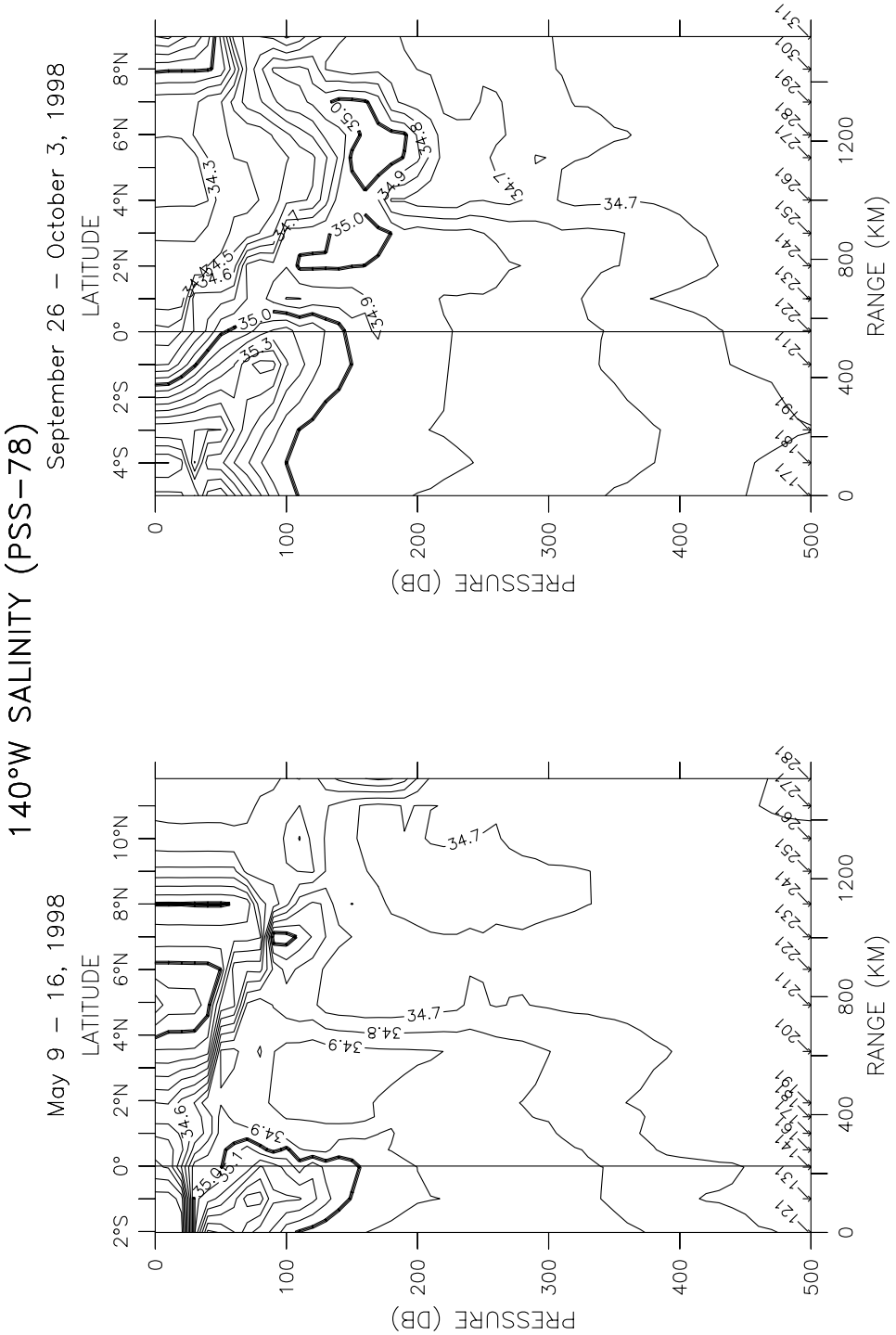

Figure 24: GP2-98-KA spring and GP5-98-KA summer salinity (PSS-78) sections along 140°W. Contour intervals are 0.1 PSS.

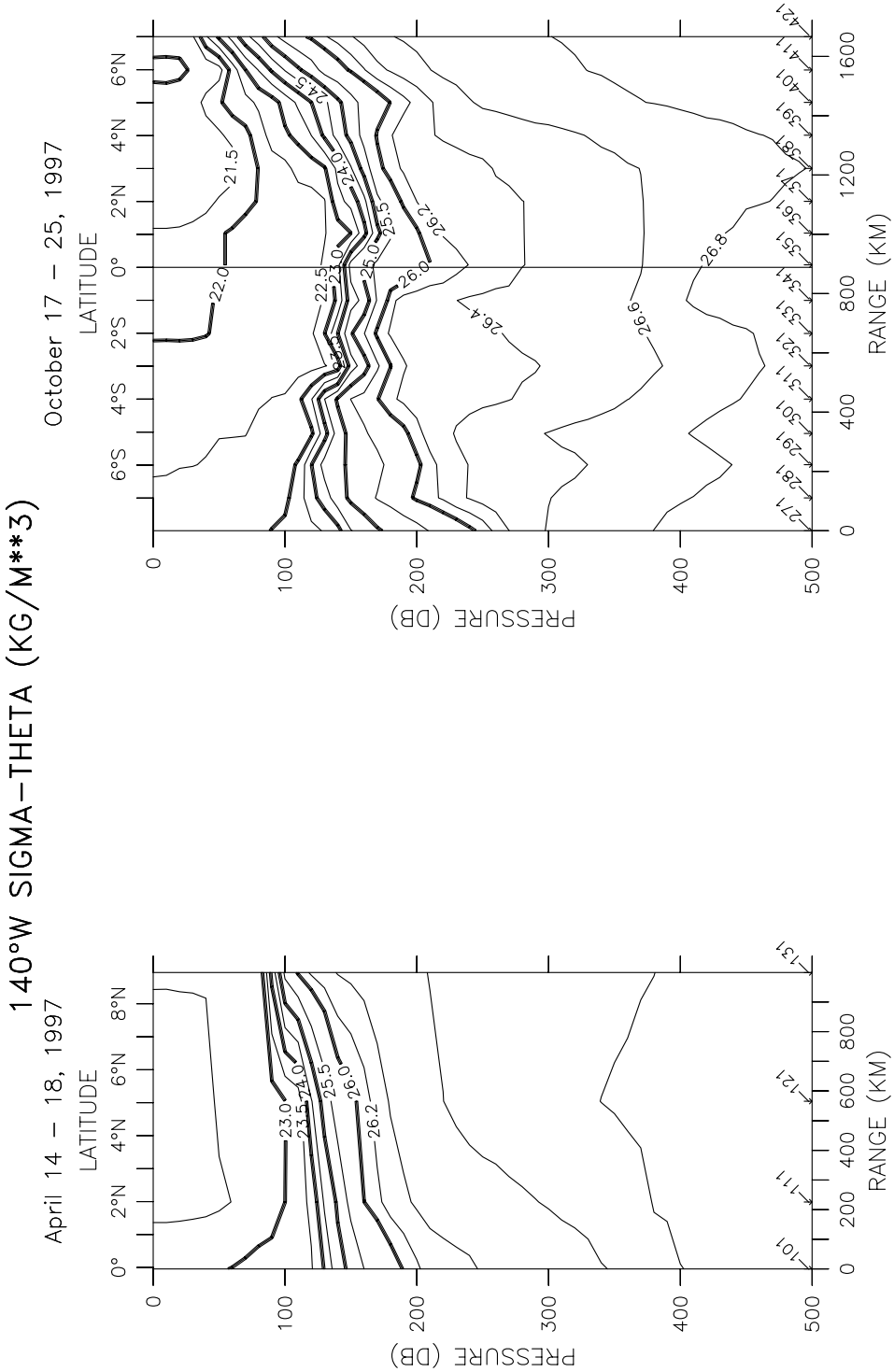

Figure 25: GP2-97-KA spring and GP6-97-KA fall potential density (kg/m^3) sections along 140°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

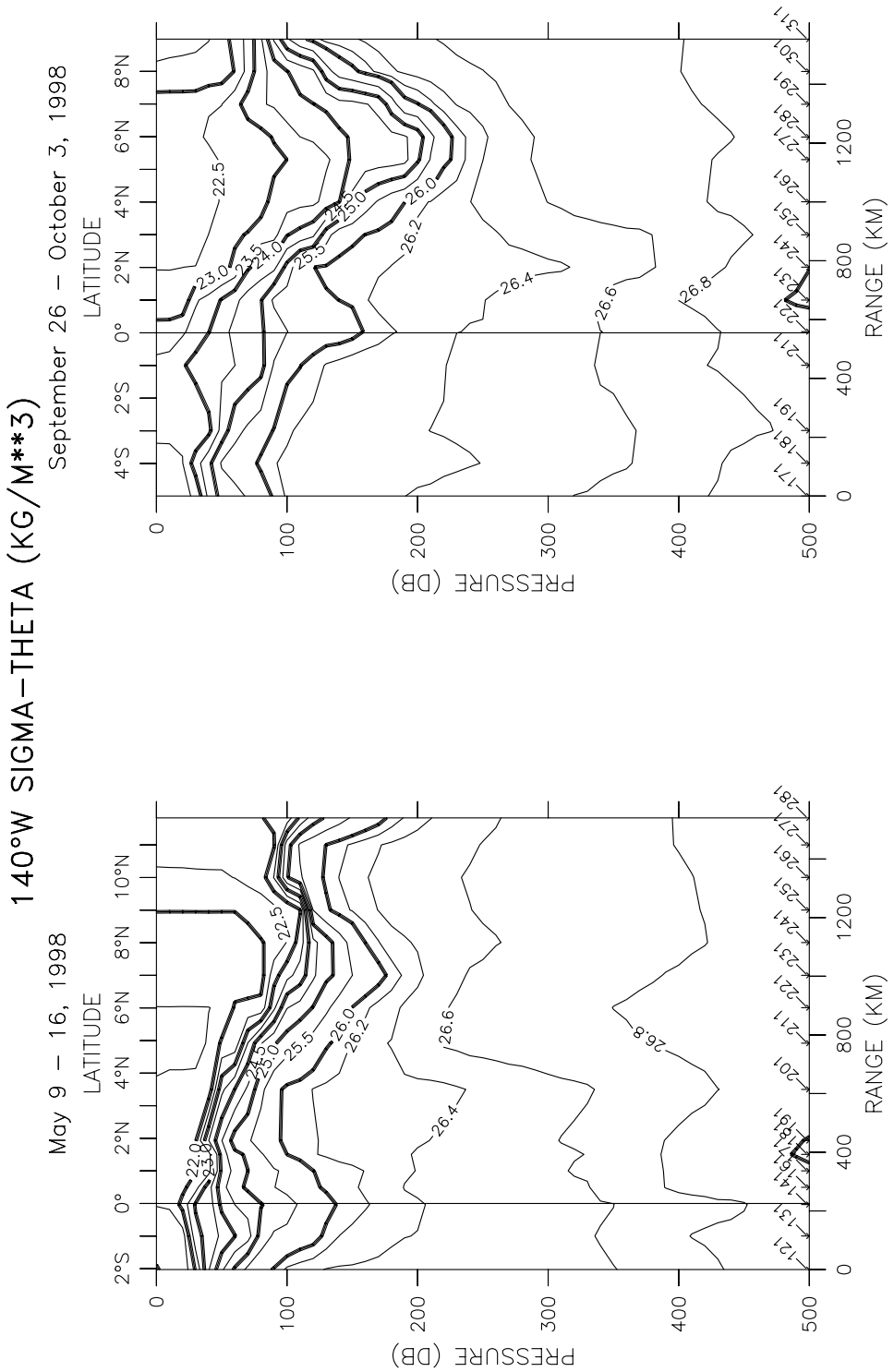

Figure 26: GP2-98-KA spring and GP5-98-KA summer potential density (kg/m^3) sections along 140°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

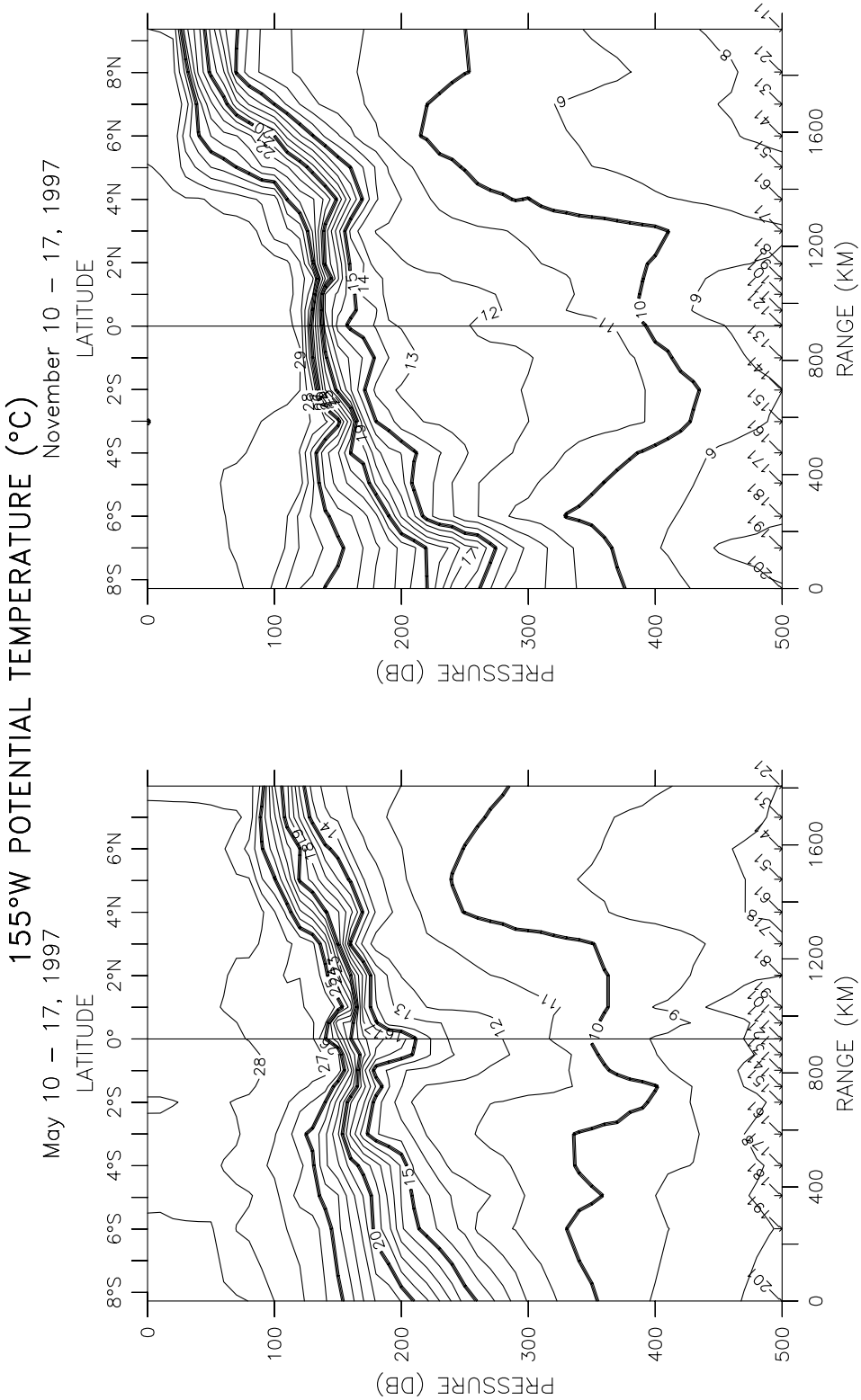

Figure 27: GP3-97-KA spring and GP7-97-KA fall potential temperature (°C) sections along 155°W. Contour intervals are 1°C.

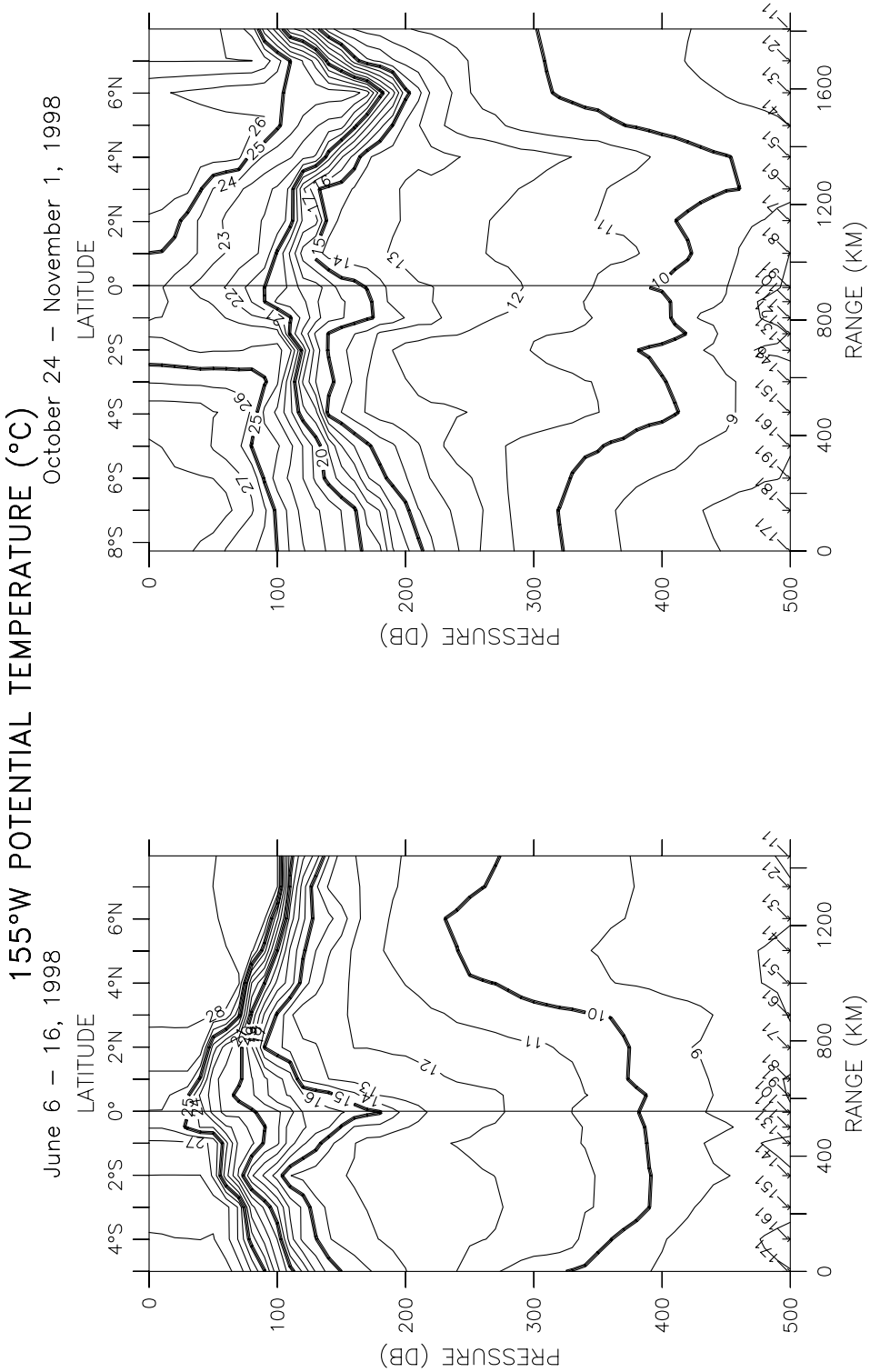

Figure 28: GP3-98-KA spring and GP7-98-KA fall potential temperature (°C) sections along 155°W. Contour intervals are 1°C.

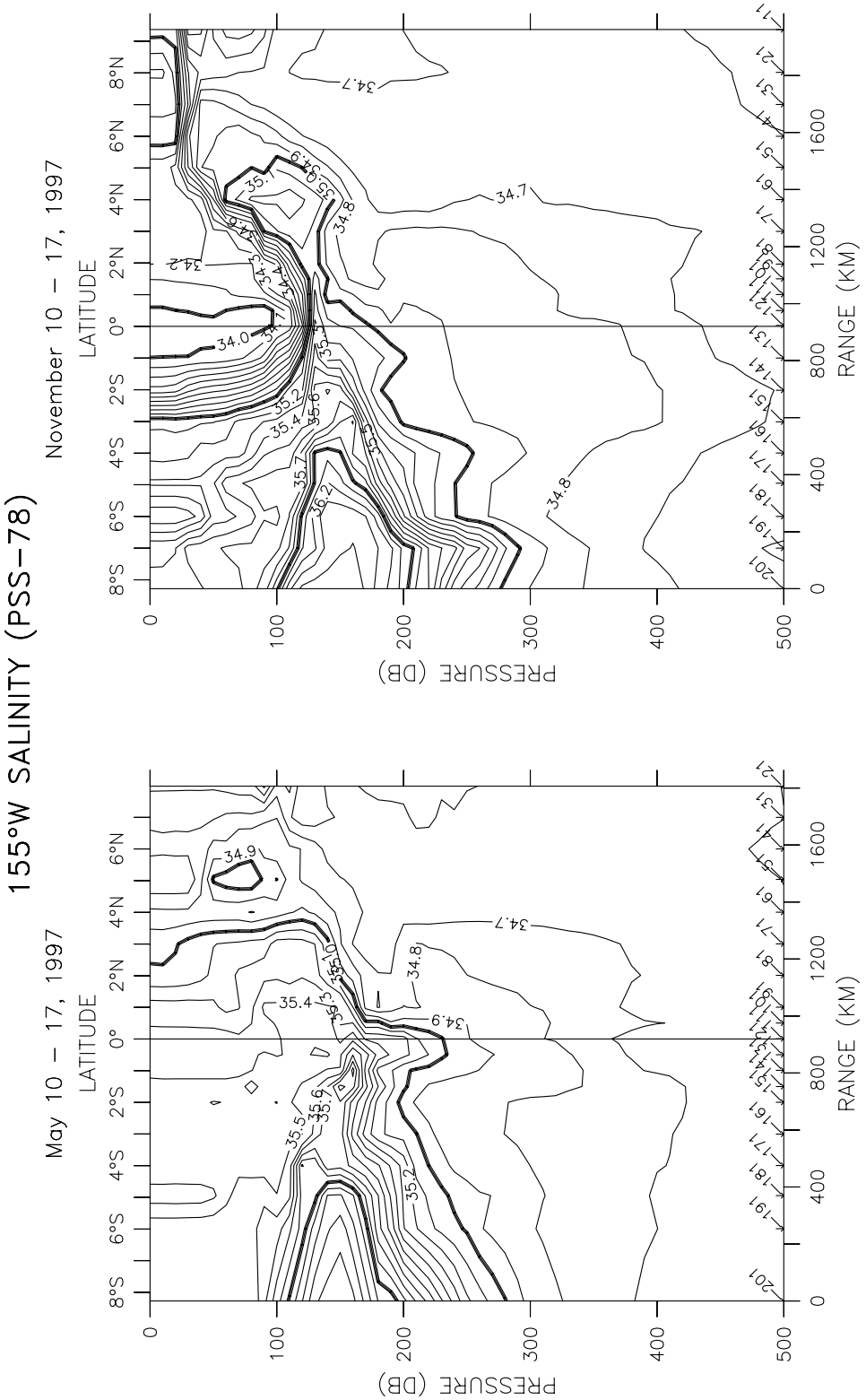

Figure 29: GP3-97-KA spring and GP7-97-KA fall salinity (PSS-78) sections along 155°W. Contour intervals are 0.1 PSS.

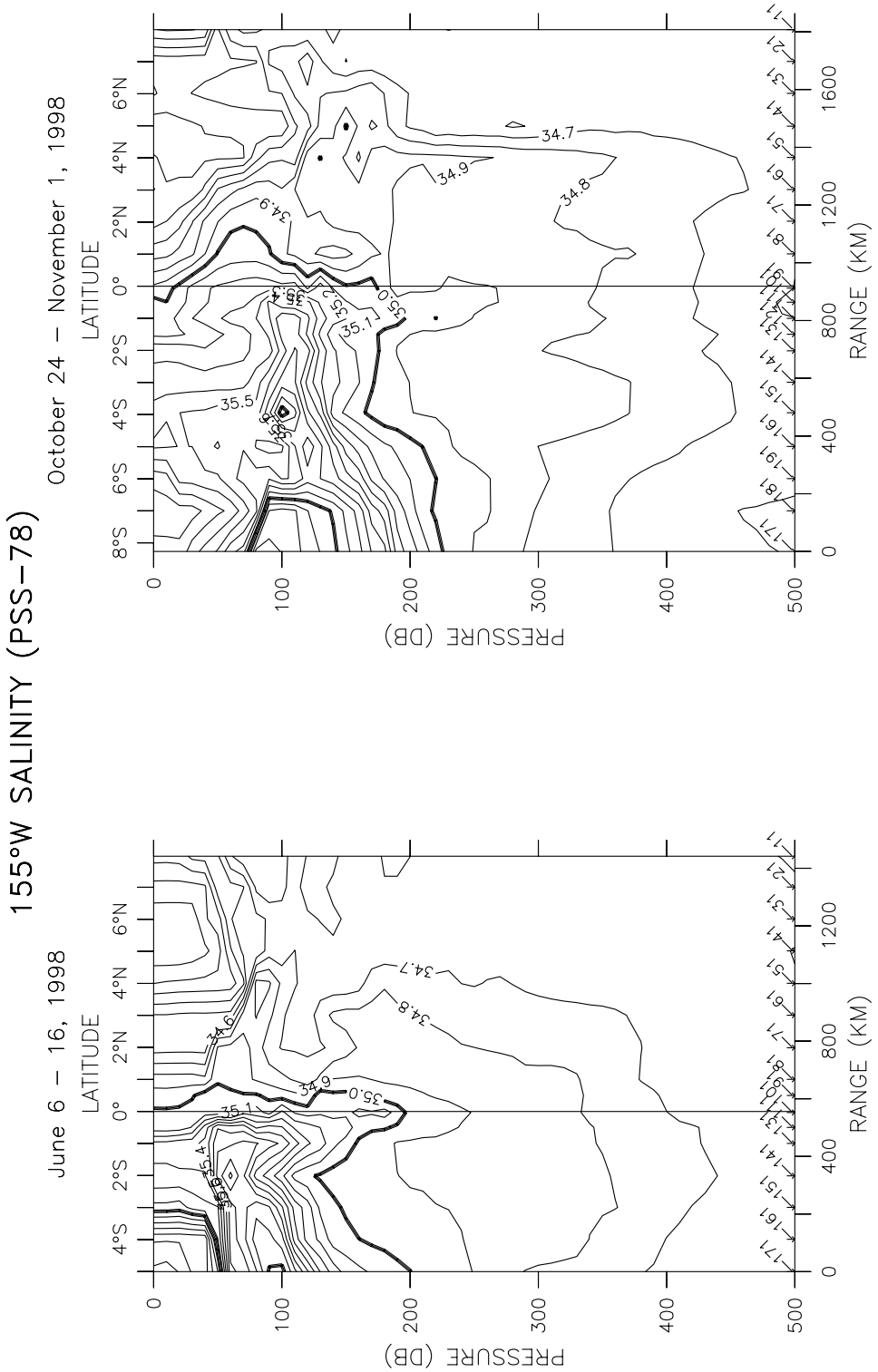

Figure 30: GP3-98-KA spring and GP7-98-KA fall salinity (PSS-78) sections along 155°W. Contour intervals are 0.1 PSS.

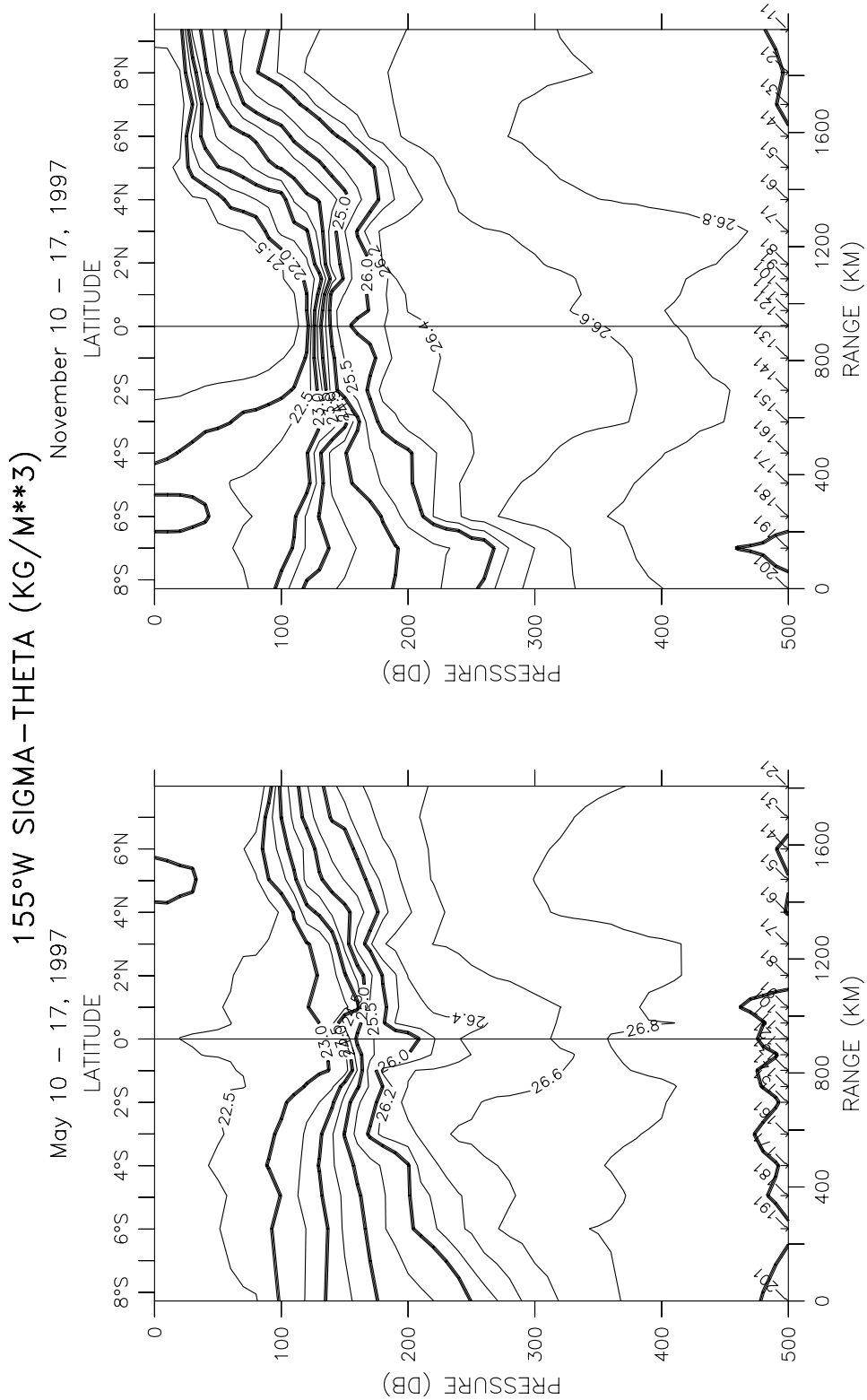

Figure 31: GP3-97-KA spring and GP7-97-KA fall potential density (kg/m^3) sections along 155°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

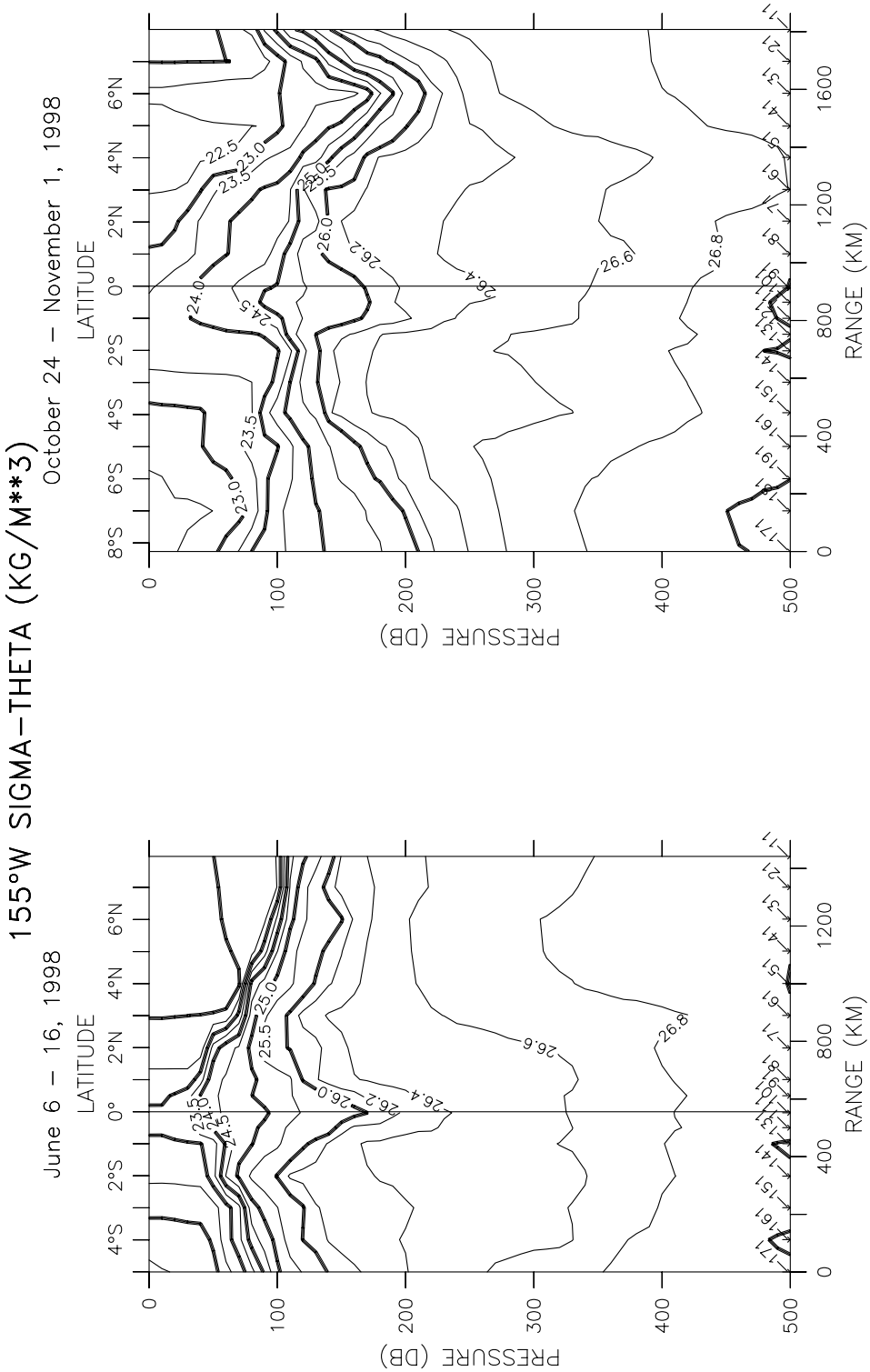

Figure 32: GP3-98-KA spring and GP7-98-KA fall potential density (kg/m^3) sections along 155°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

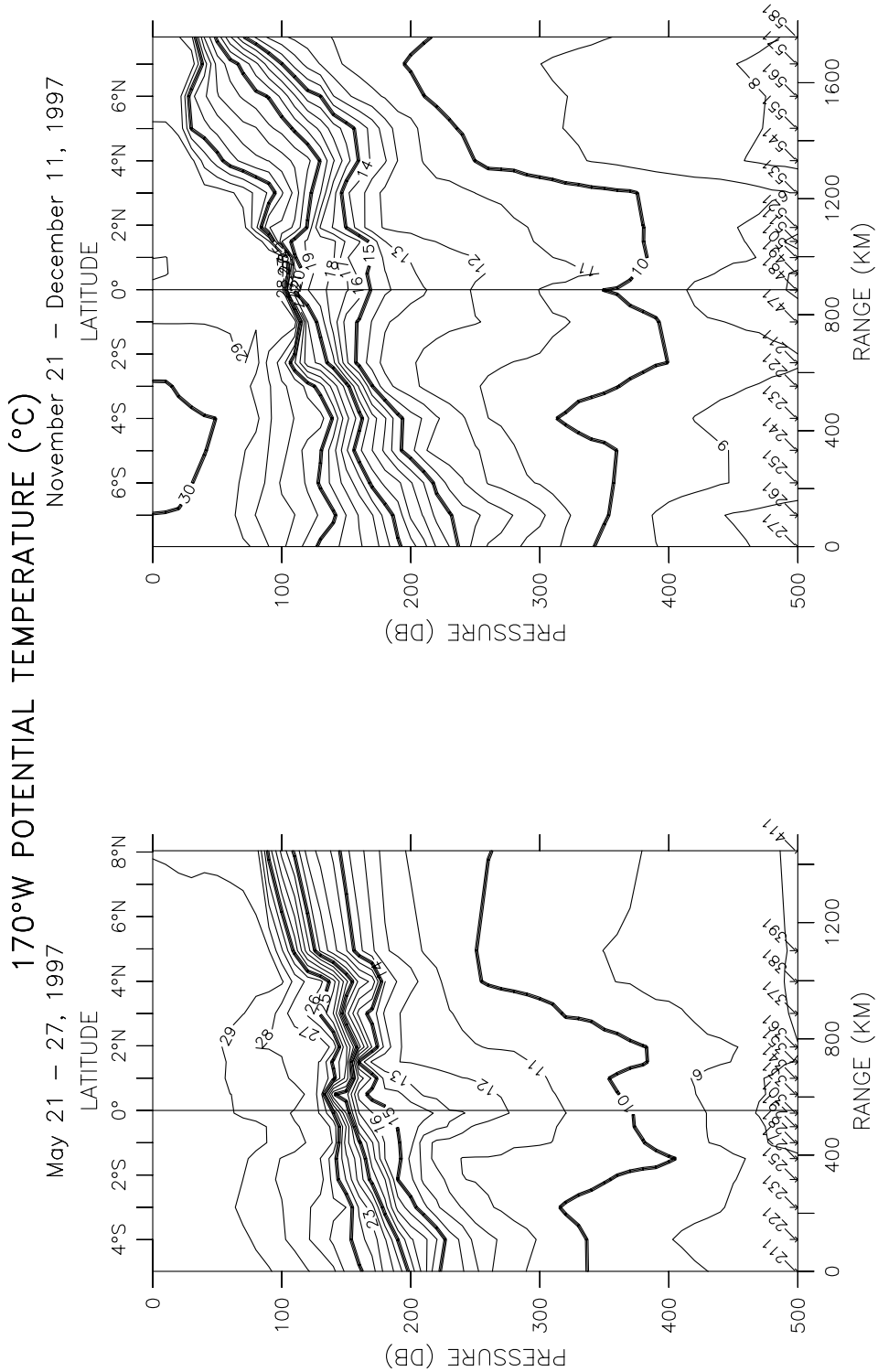

Figure 33: GP3-97-KA spring and GP7-97-KA fall potential temperature (°C) sections along 170°W. Contour intervals are 1°C.

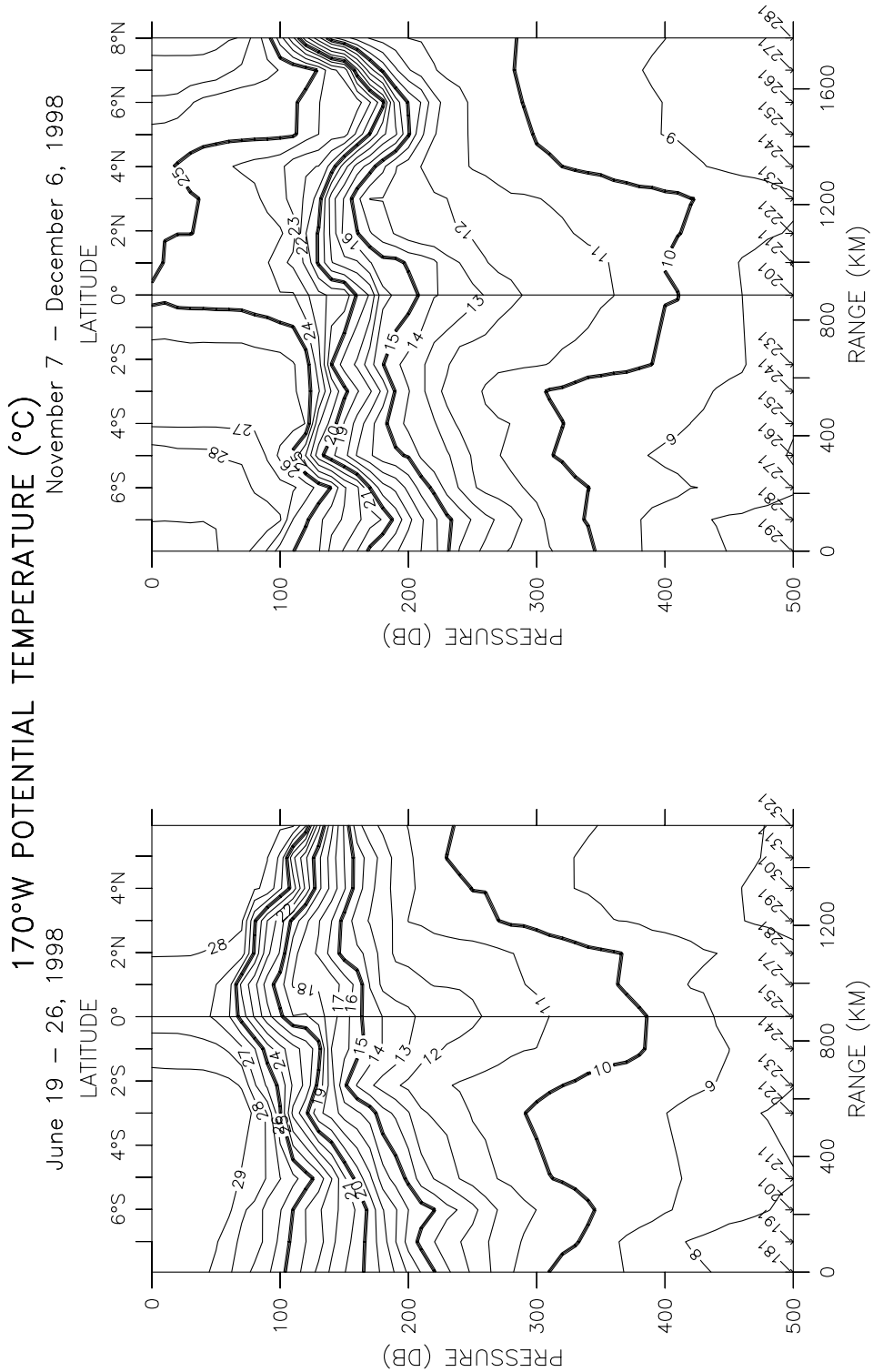

Figure 34: GP3-98-KA spring and GP7/8-98-KA fall potential temperature (°C) sections along 170°W. Contour intervals are 1°C.

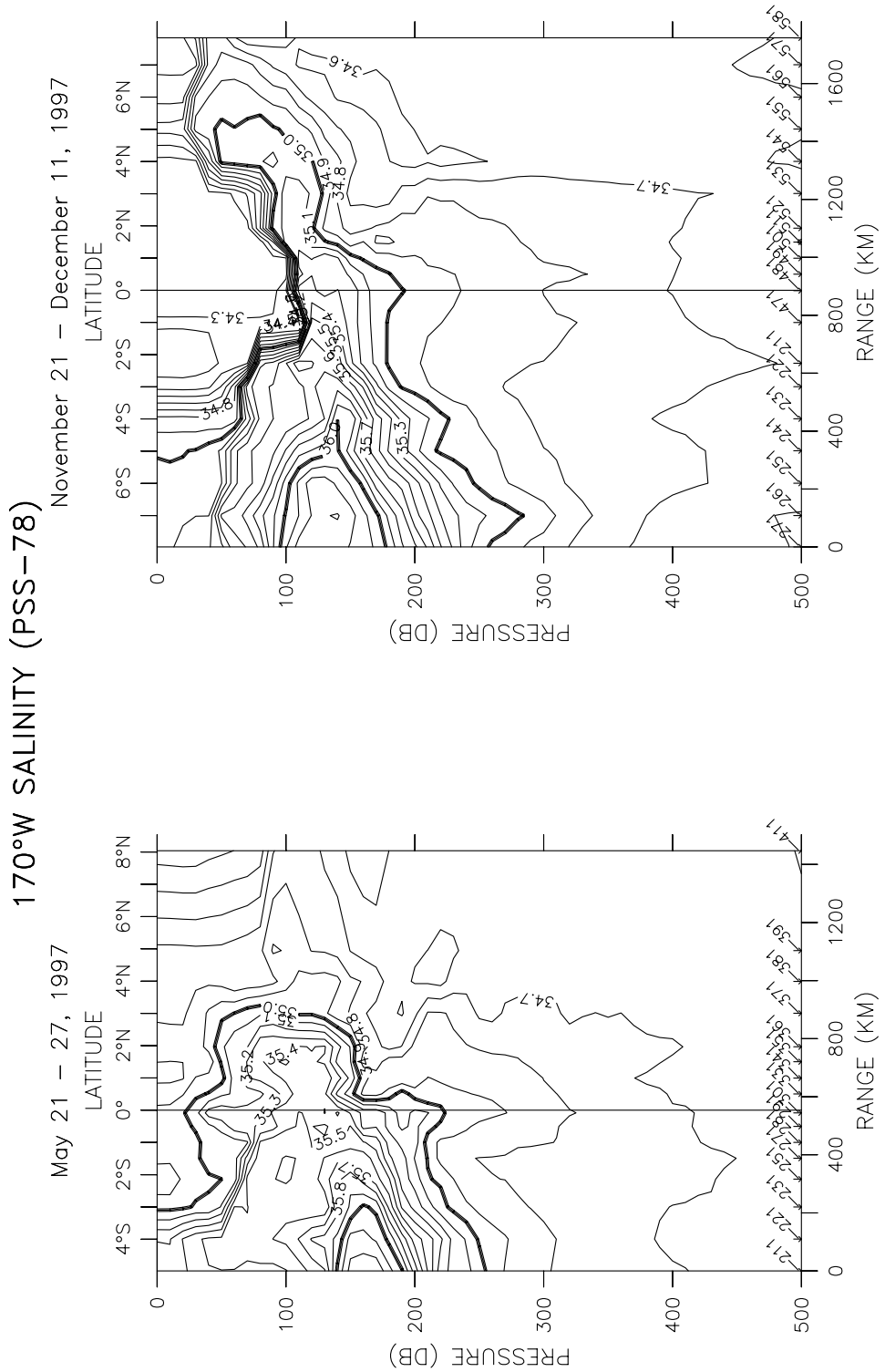

Figure 35: GP3-97-KA spring and GP7-97-KA fall salinity (PSS-78) sections along 170°W. Contour intervals are 0.1 PSS.

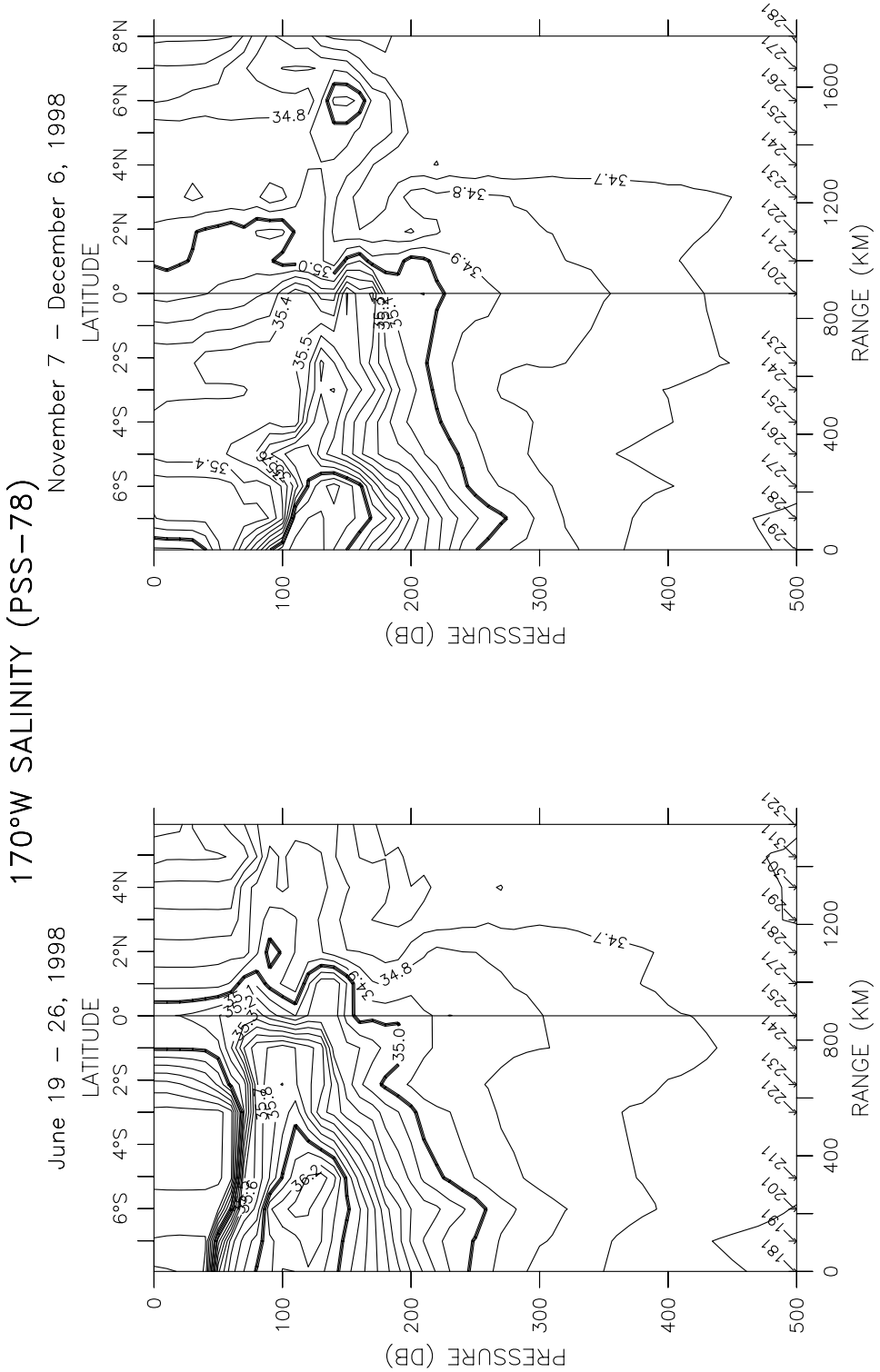

Figure 36: GP3-98-KA spring and GP7/8-98-KA fall salinity (PSS-78) sections along 170°W. Contour intervals are 0.1 PSS.

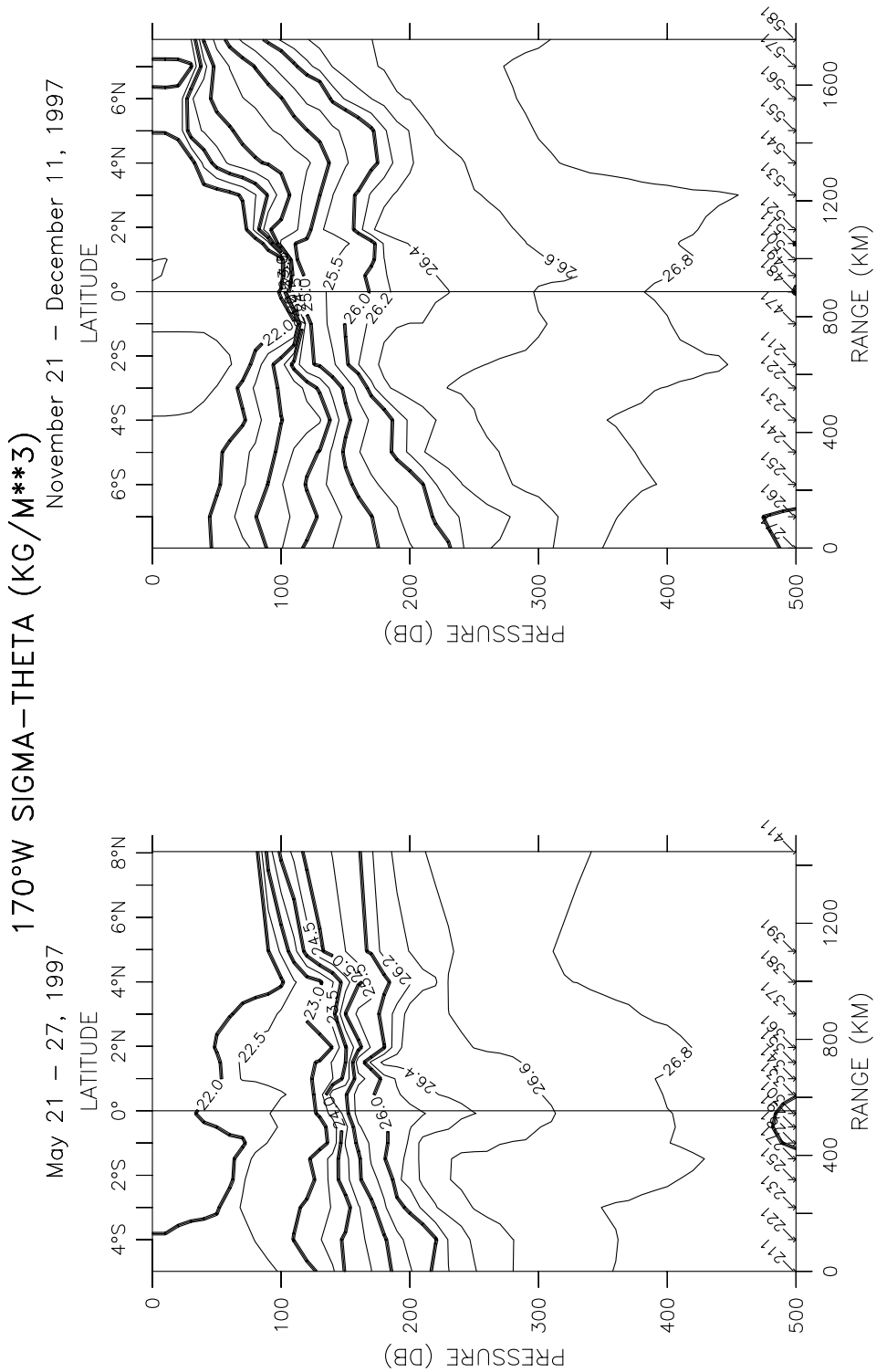

Figure 37: GP3-97-KA spring and GP7-97-KA fall potential density (kg/m^3) sections along 170°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

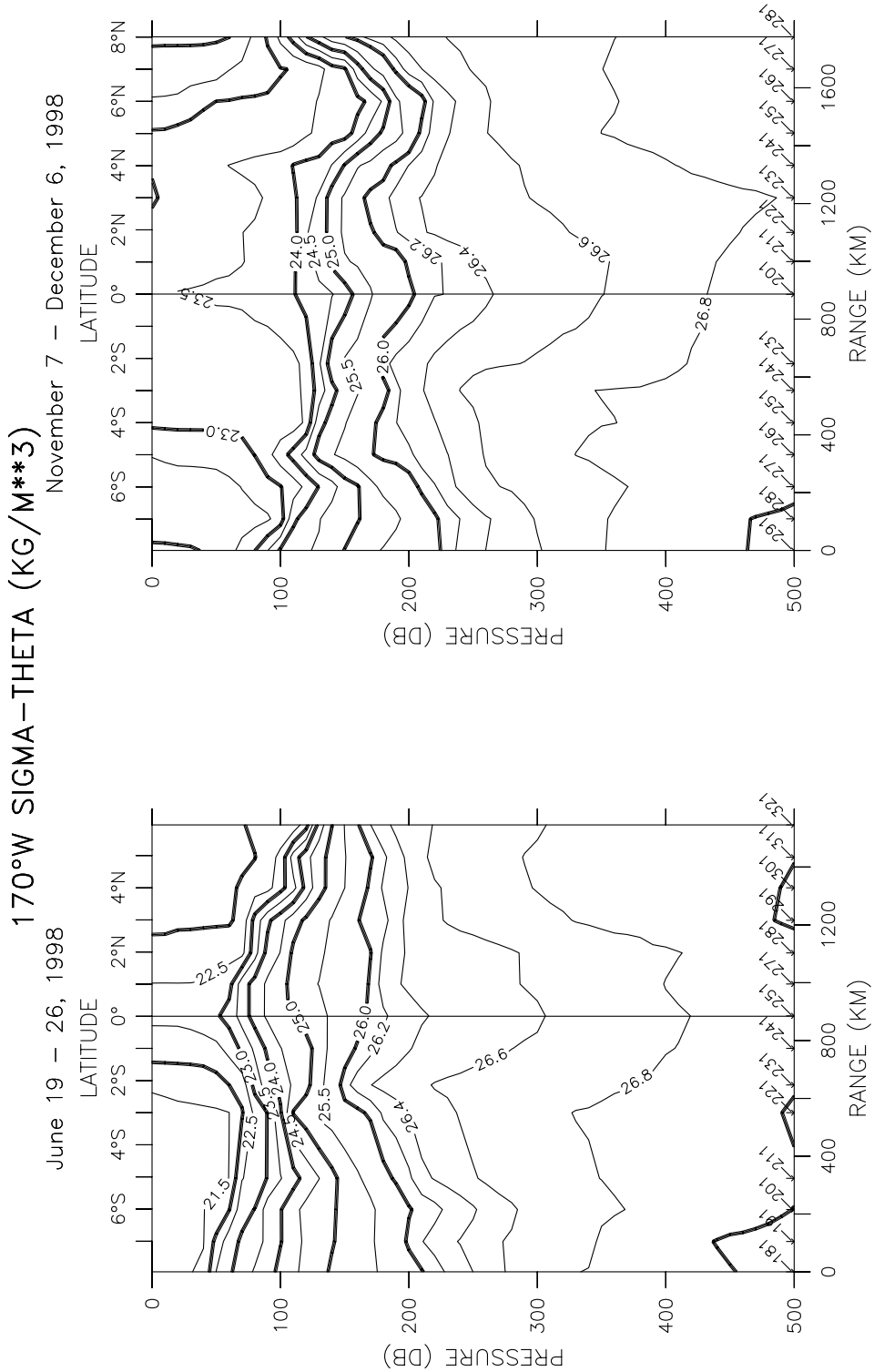

Figure 38: GP3-98-KA spring and GP7/8-98-KA fall potential density (kg/m^3) sections along 170°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

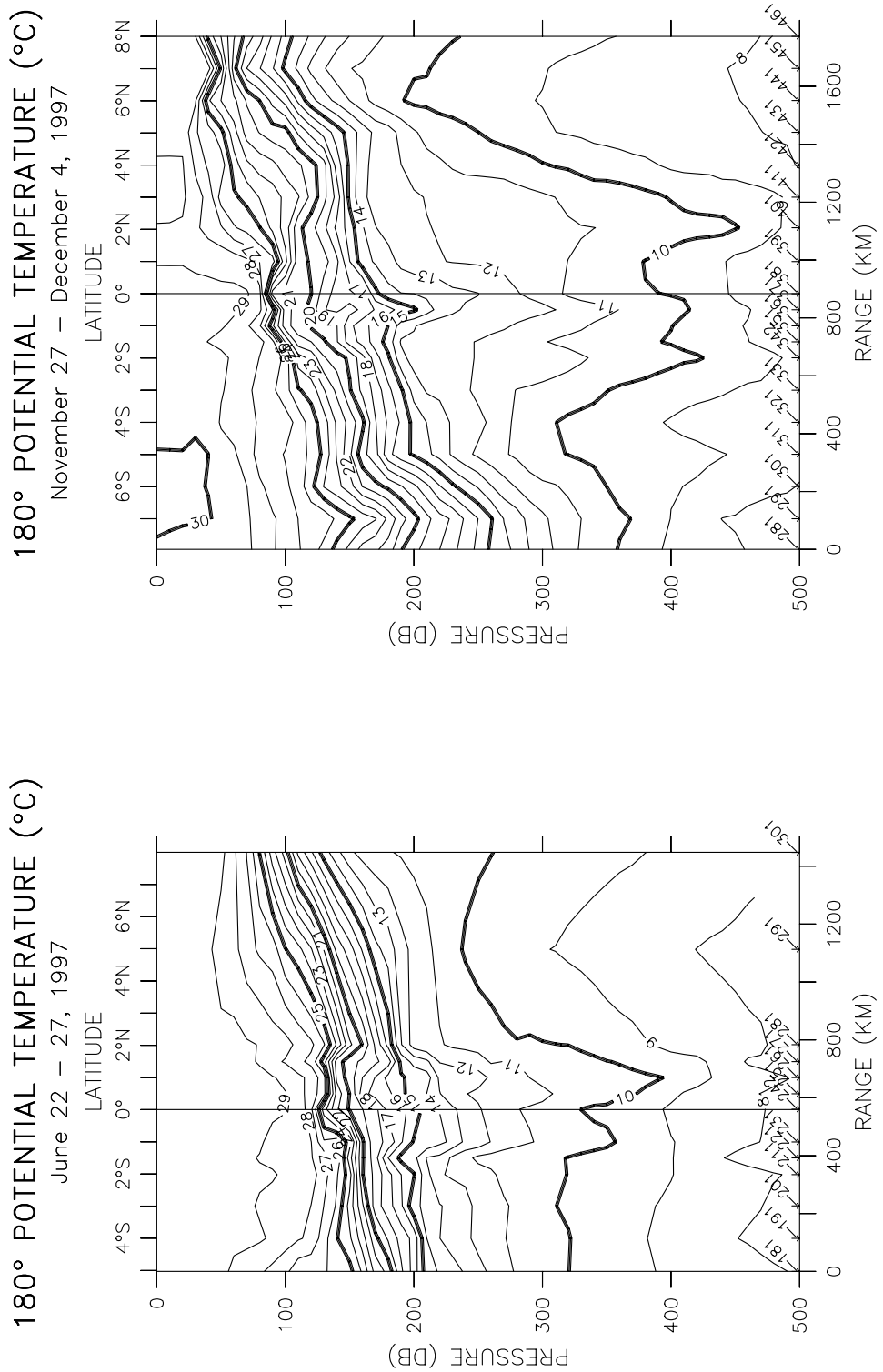

Figure 39: GP4-97-KA spring and GP7-97-KA fall potential temperature (°C) sections along 180°. Contour intervals are 1°C.

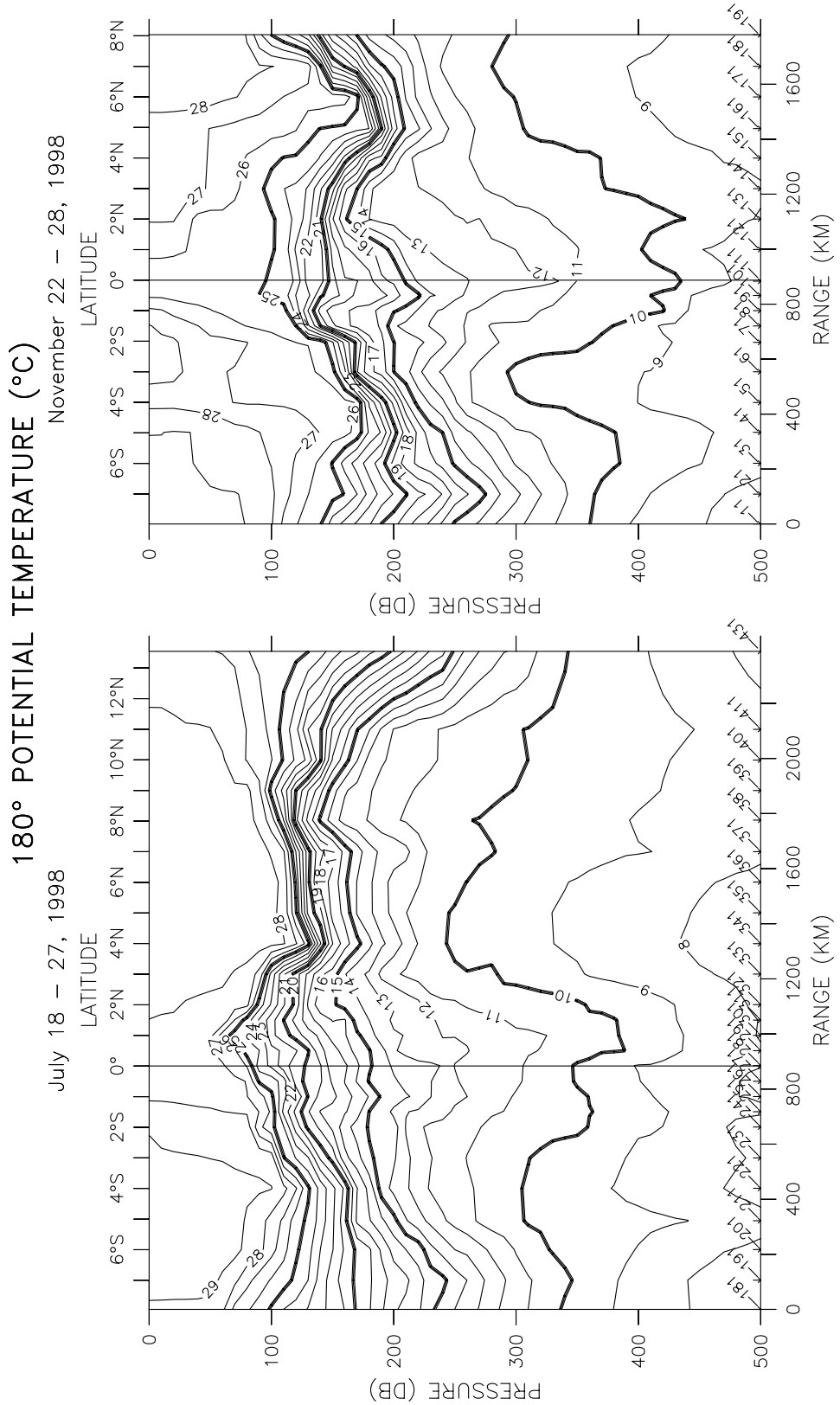

Figure 40: GP4-98-KA summer and GP8-98-KA fall potential temperature (°C) sections along 180°. Contour intervals are 1°C.

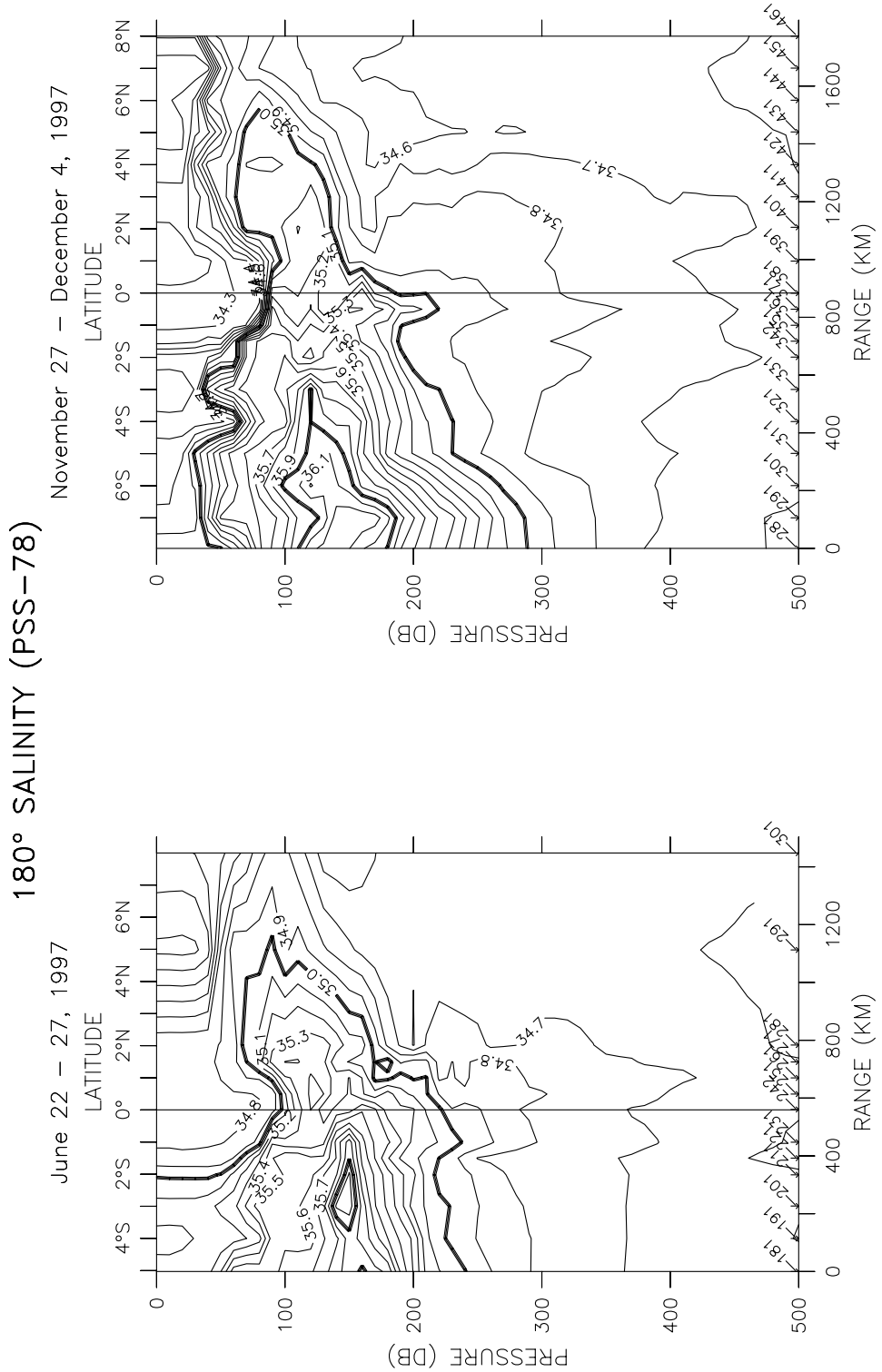

Figure 41: GP4-97-KA spring and GP7-97-KA fall salinity (PSS-78) sections along 180°. Contour intervals are 0.1 PSS.

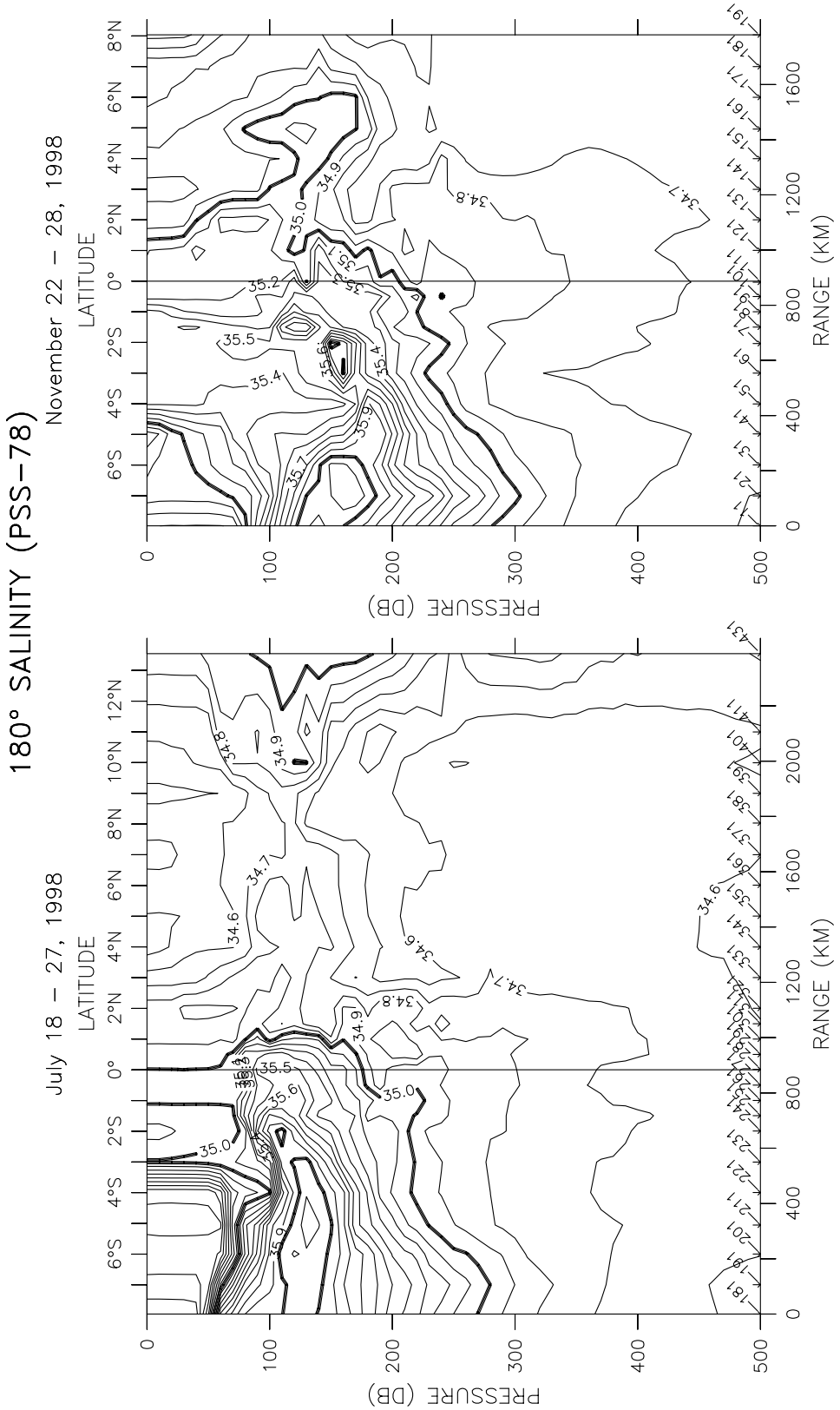

Figure 42: GP4-98-KA summer and GP8-98-KA fall salinity (PSS-78) sections along 180°. Contour intervals are 0.1 PSS.

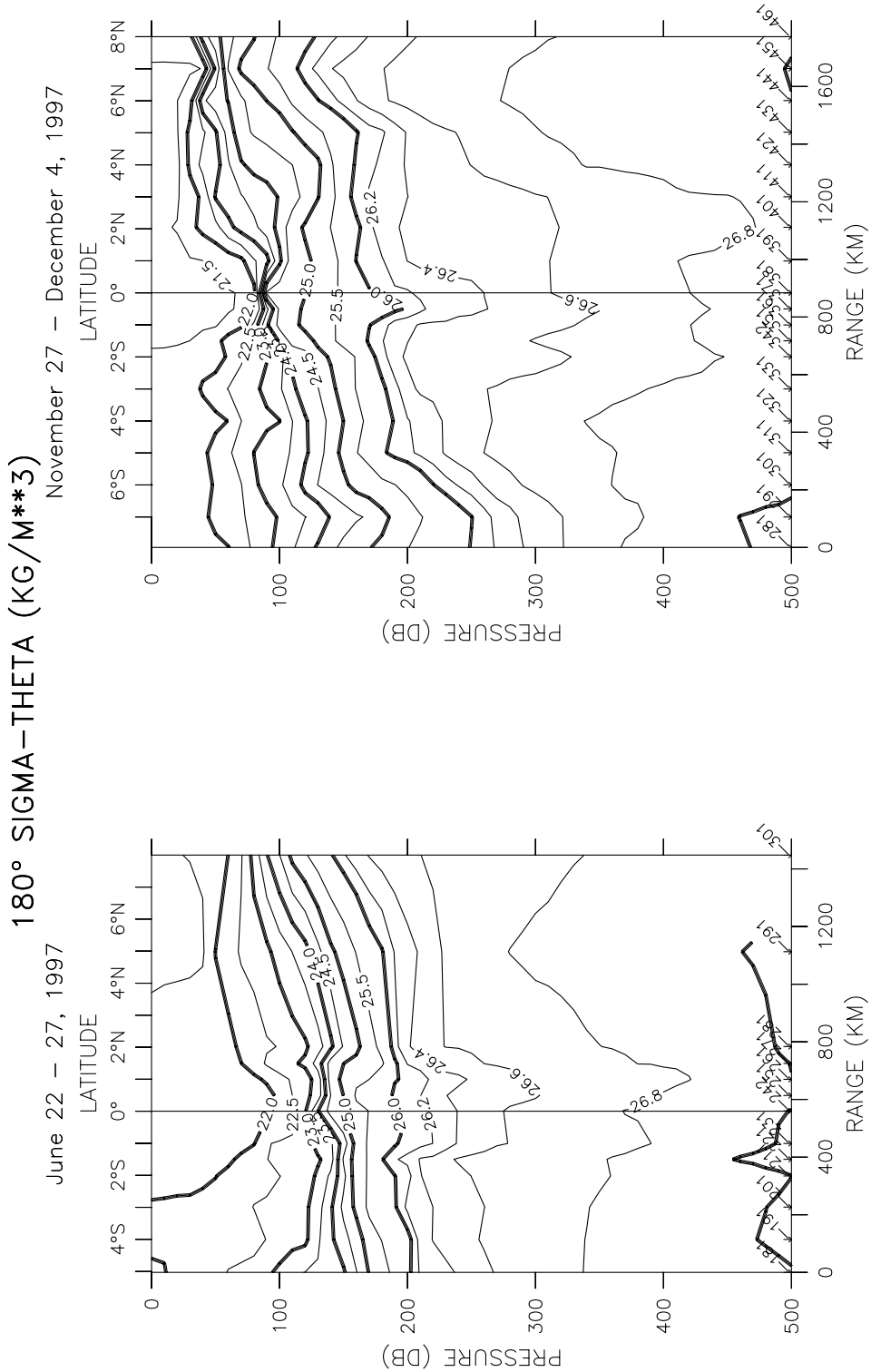

Figure 43: GP4-97-KA spring and GP7-97-KA fall potential density (kg/m^3) sections along 180°. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

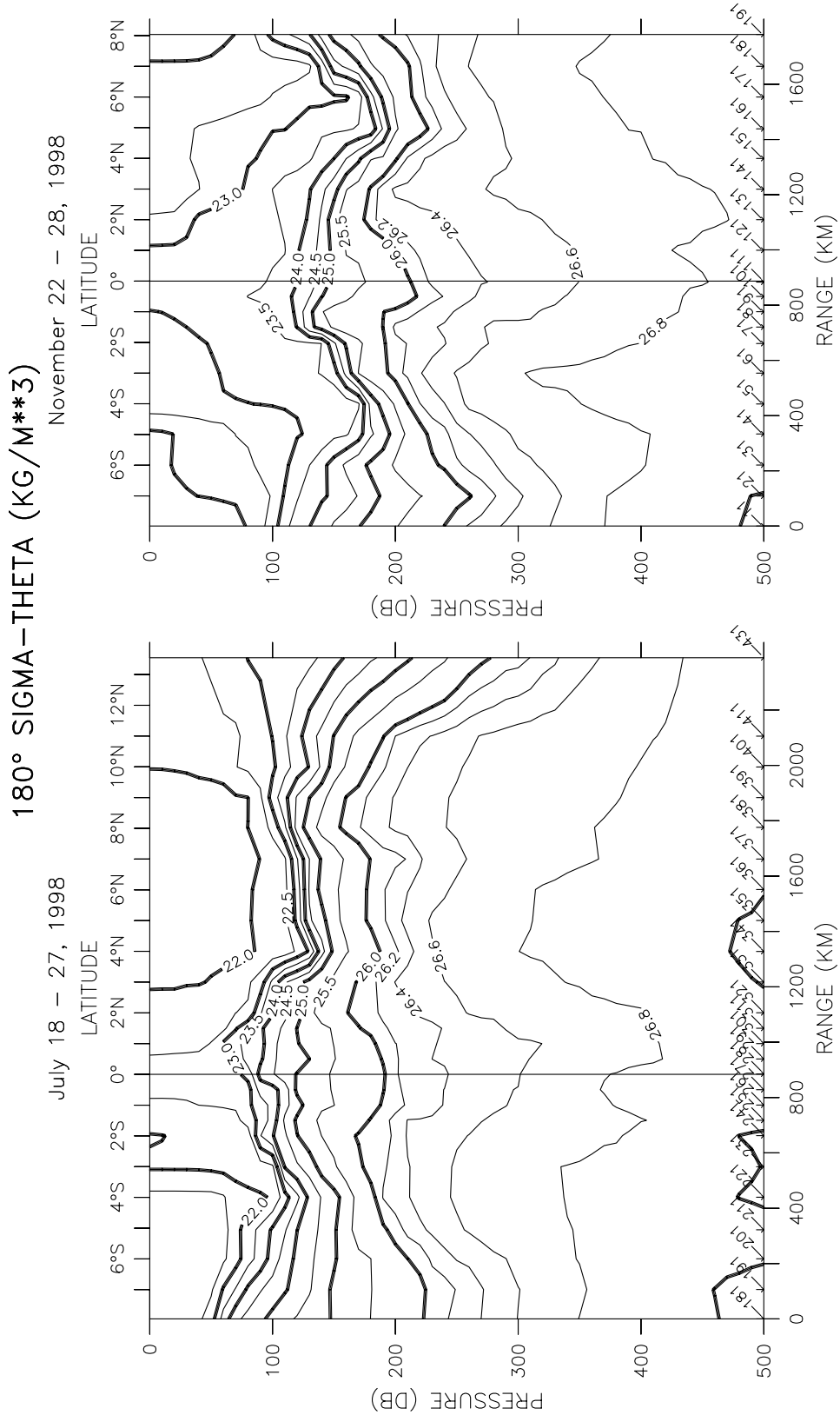

Figure 44: GP4-98-KA summer and GP8-98-KA fall potential density (kg/m^3) sections along 180°. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

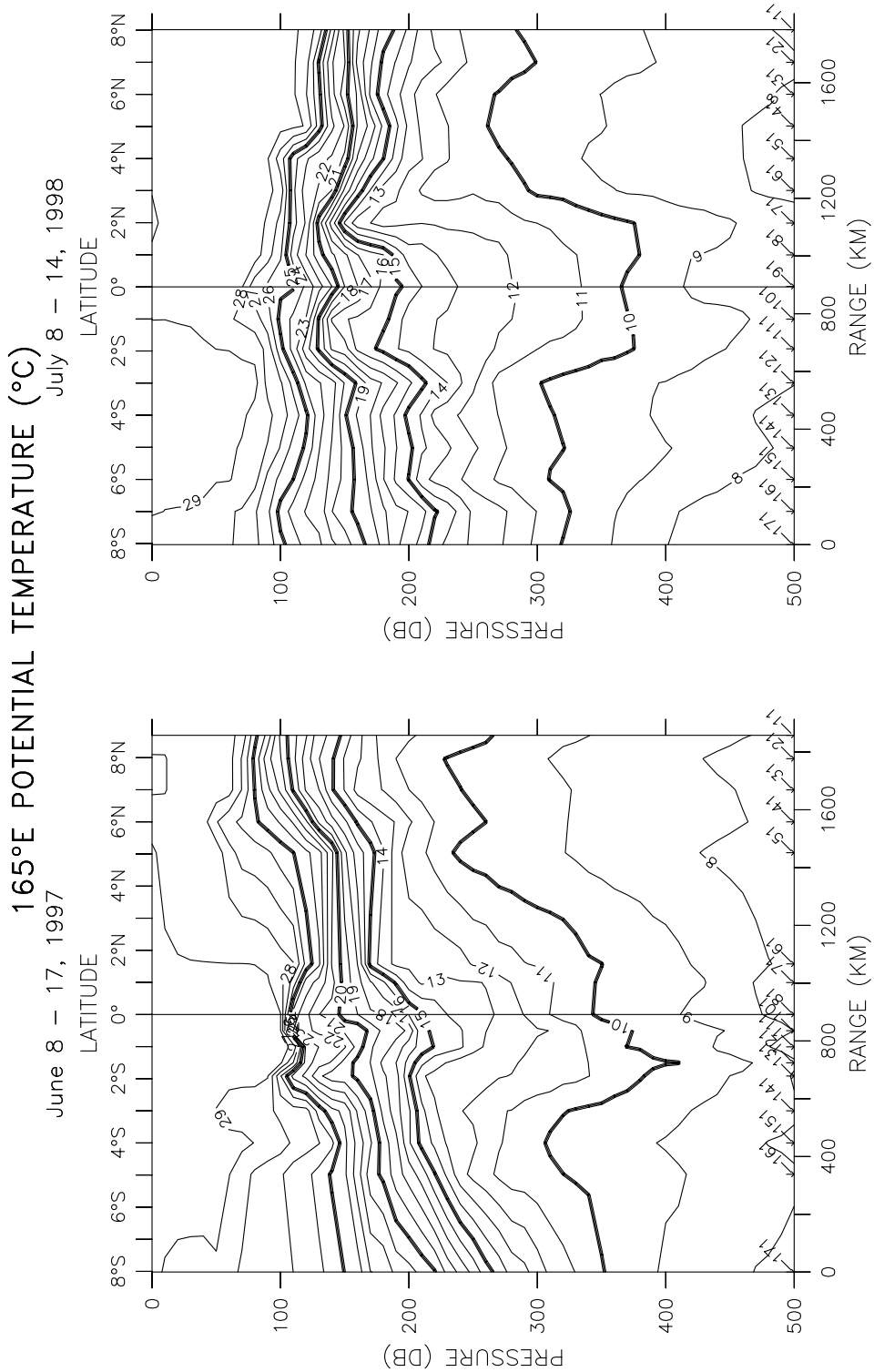

Figure 45: GP4-97-KA spring and GP4-98-KA summer potential temperature (°C) sections along 165°E. Contour intervals are 1°C.

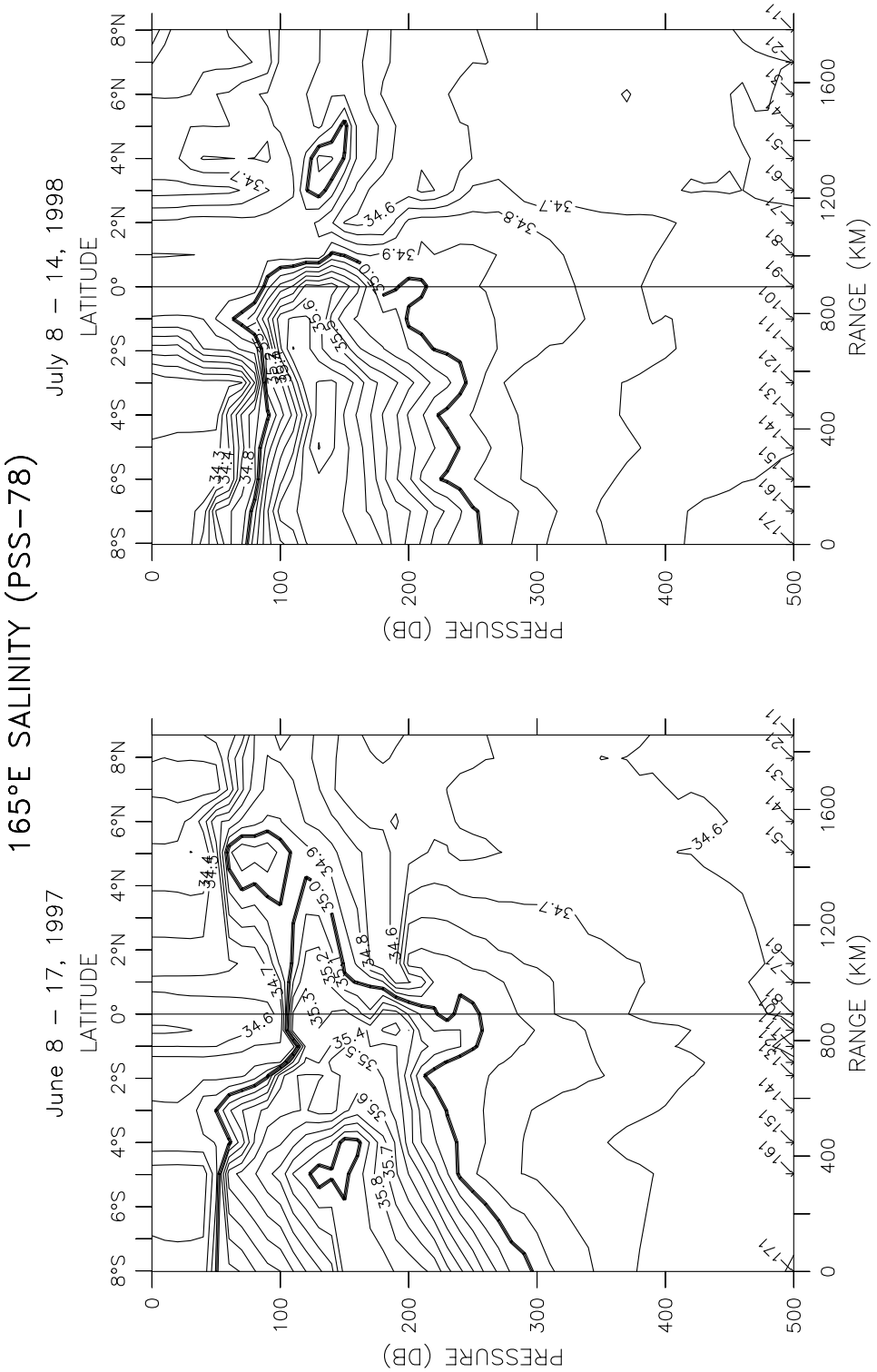

Figure 46: GP4-97-KA spring and GP4-98-KA summer salinity (PSS-78) sections along 165°E. Contour intervals are 0.1 PSS.

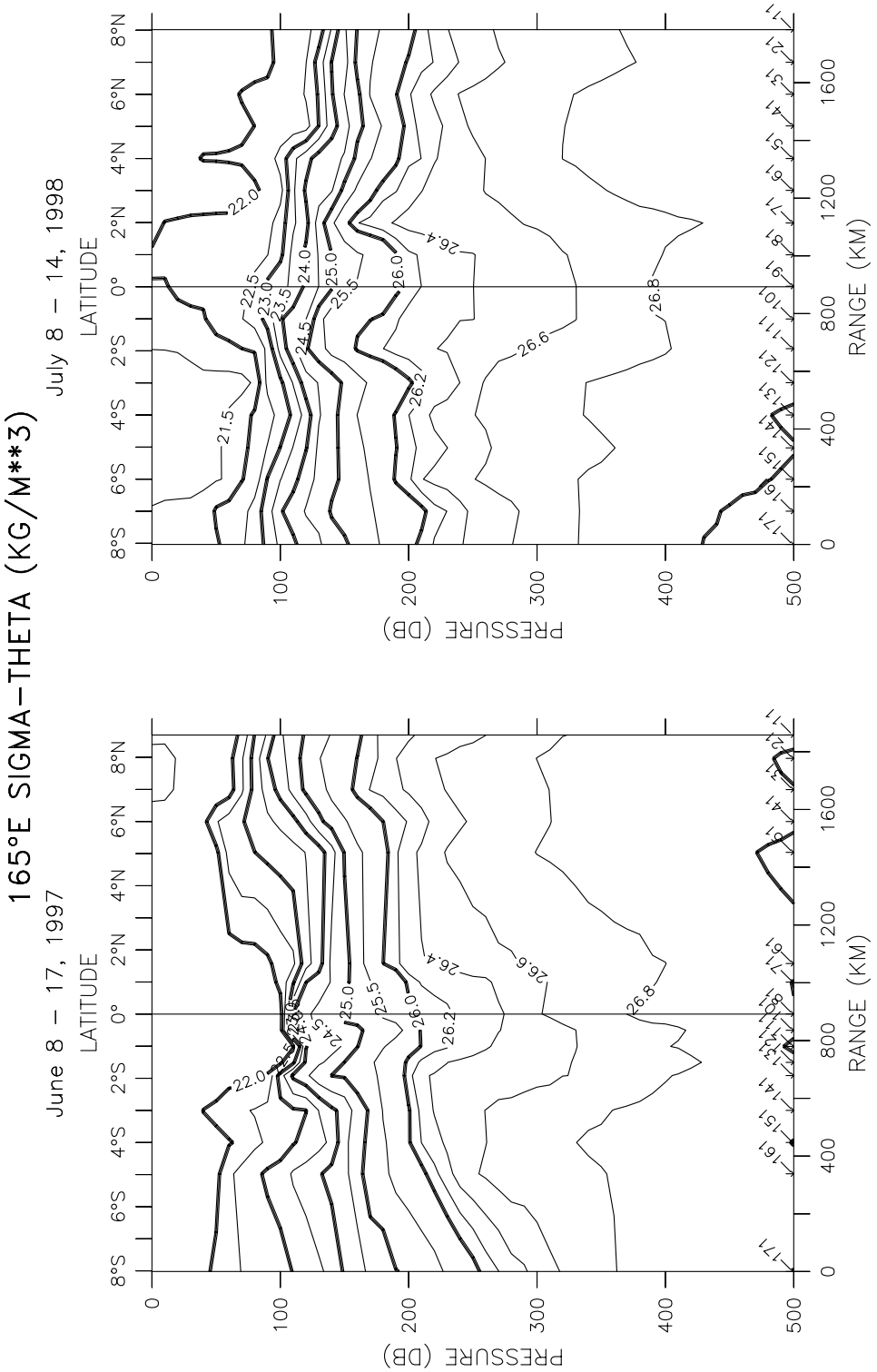

Figure 47: GP4-97-KA spring and GP4-98-KA summer potential density (kg/m^3) sections along 165°E. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

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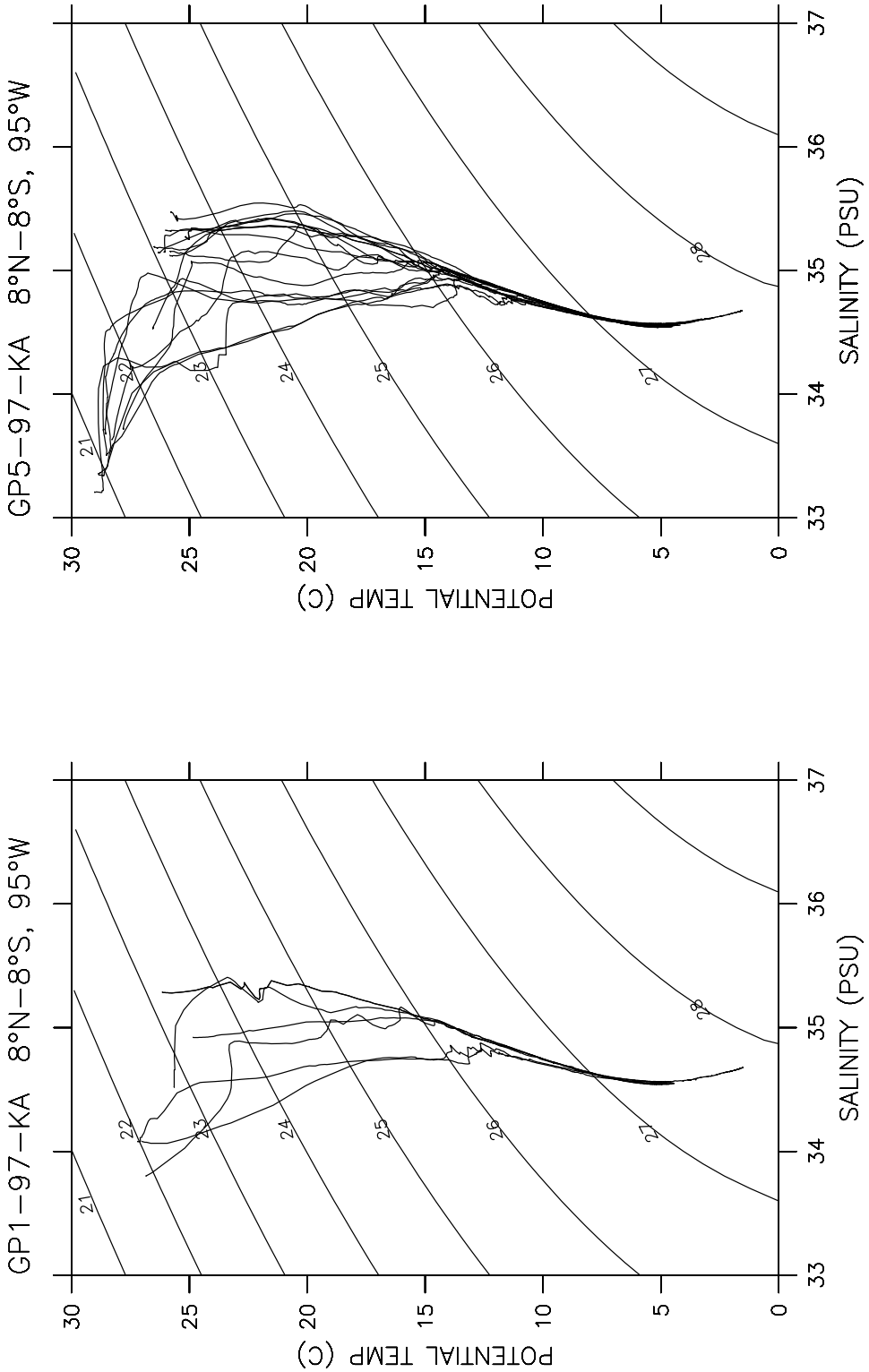


Figure 48: GP1-97-KA winter and GP5-97-KA summer composite TS diagrams along 95°W.

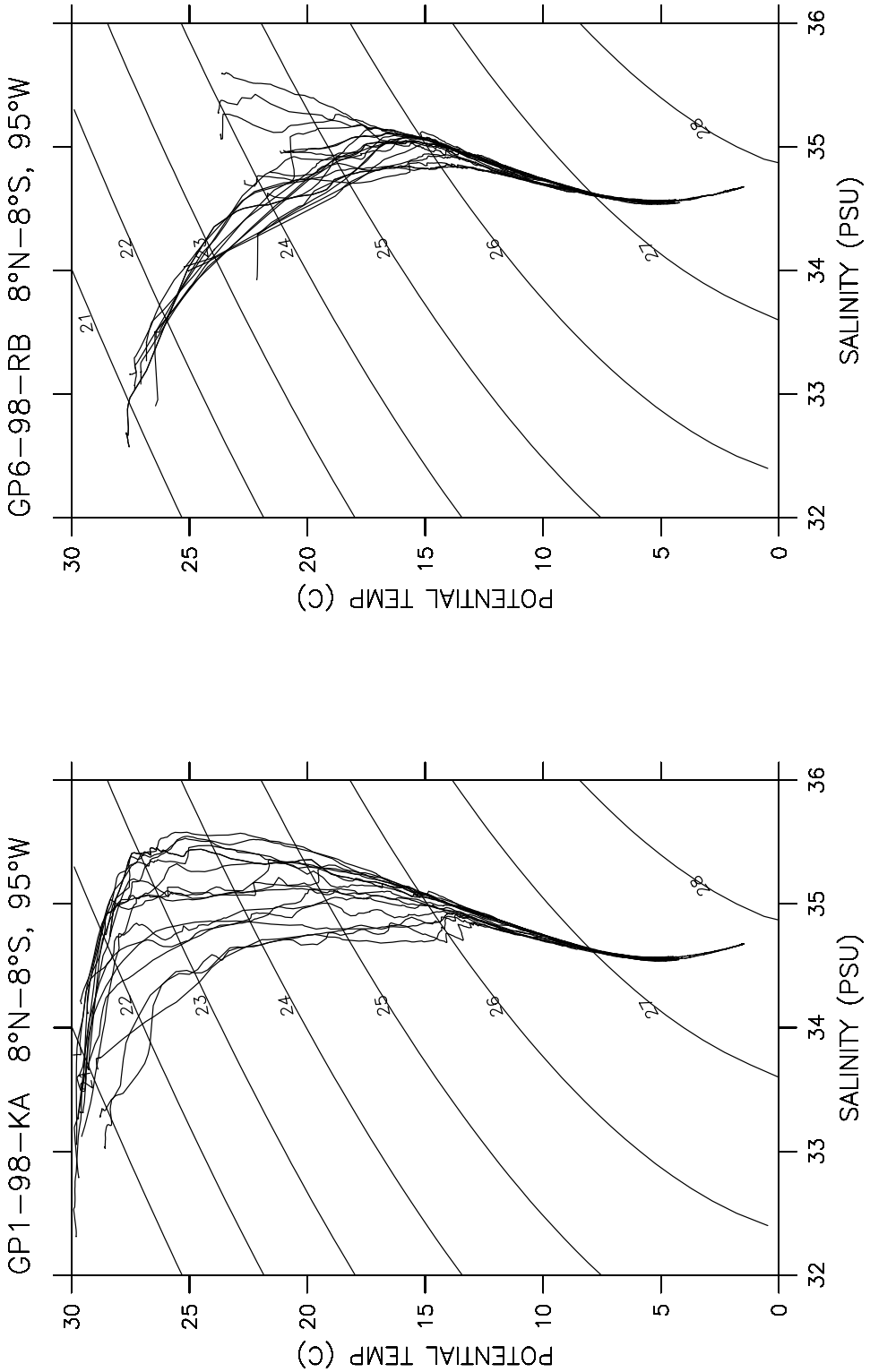


Figure 49: GP1-98-KA winter and GP6-98-RB fall composite TS diagrams along 95°W.

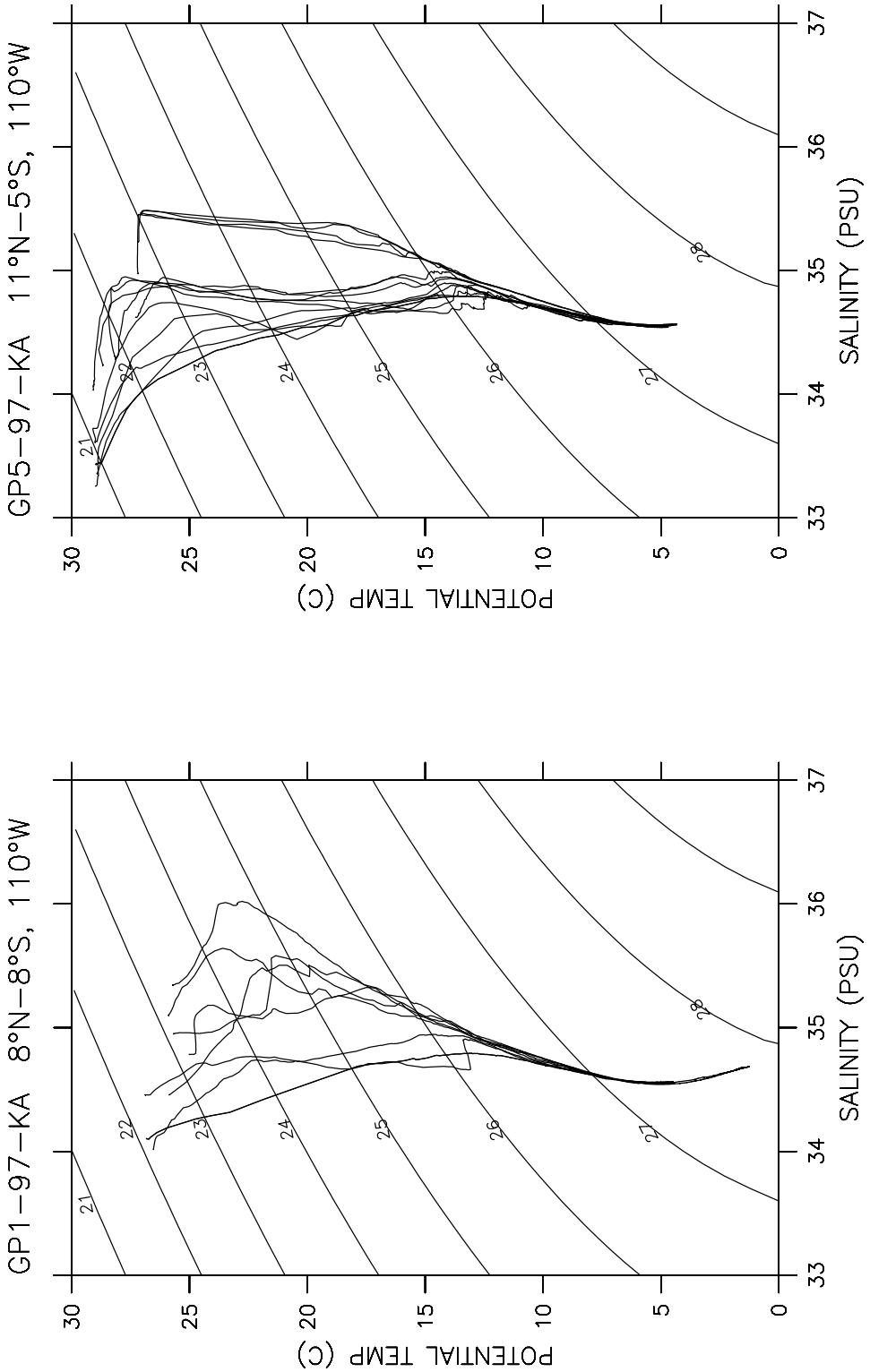


Figure 50: GP1-97-KA winter and GP5-97-KA summer composite TS diagrams along 110°W.

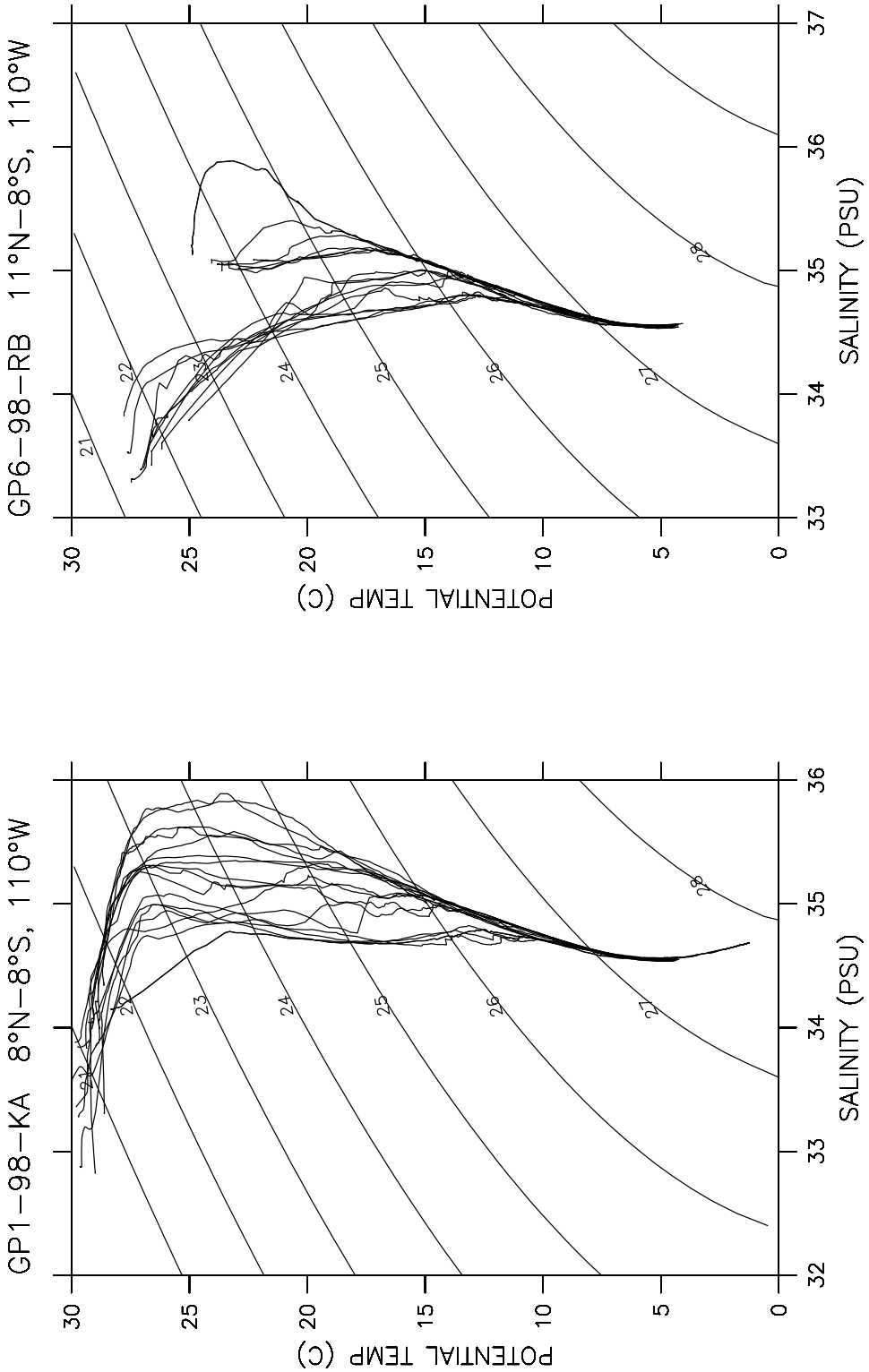


Figure 51: GP1-98-KA winter and GP6-98-RB fall composite TS diagrams along 110°W.

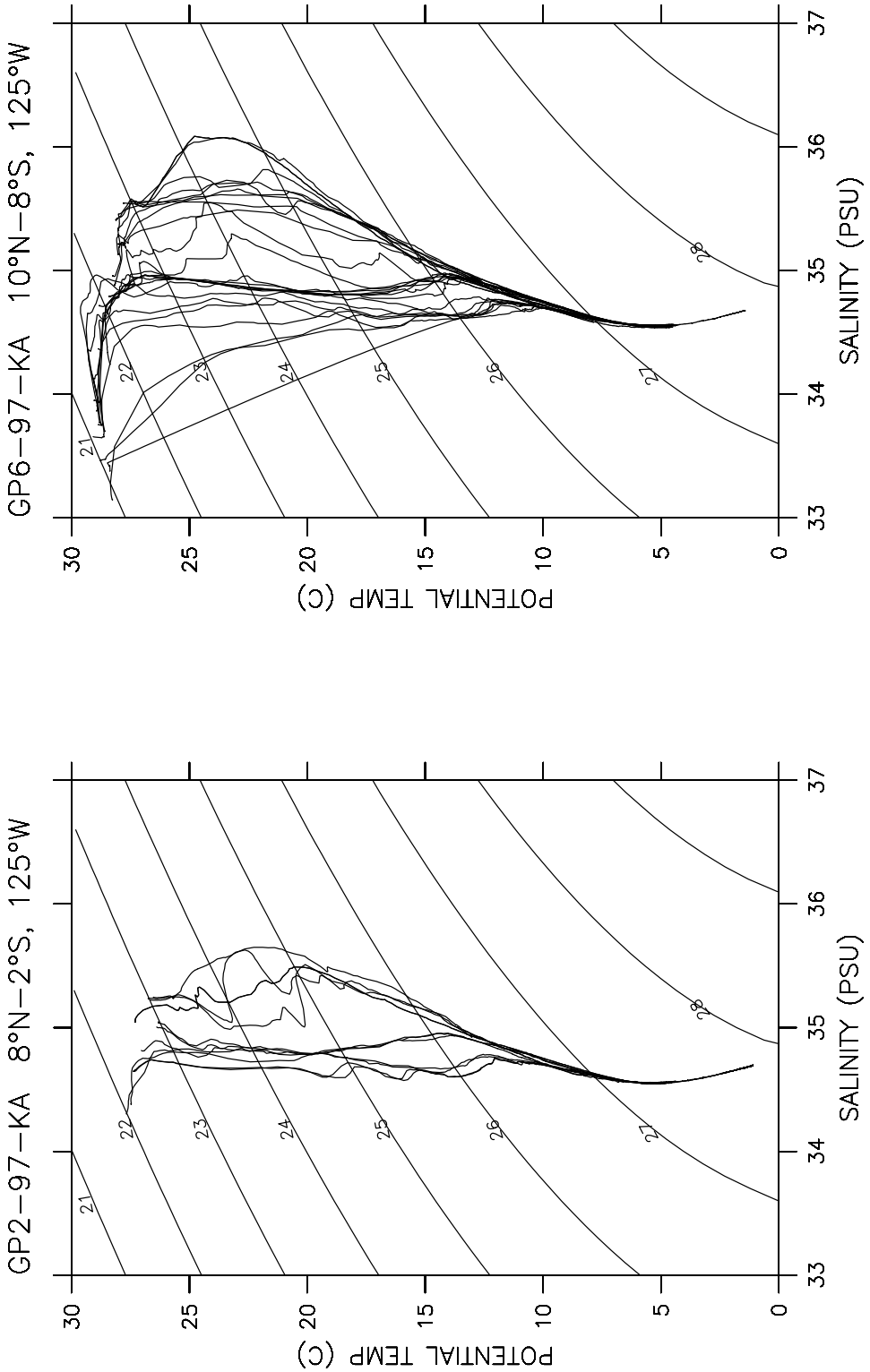


Figure 52: GP2-97-KA spring and GP6-97-KA fall composite TS diagrams along 125°W.

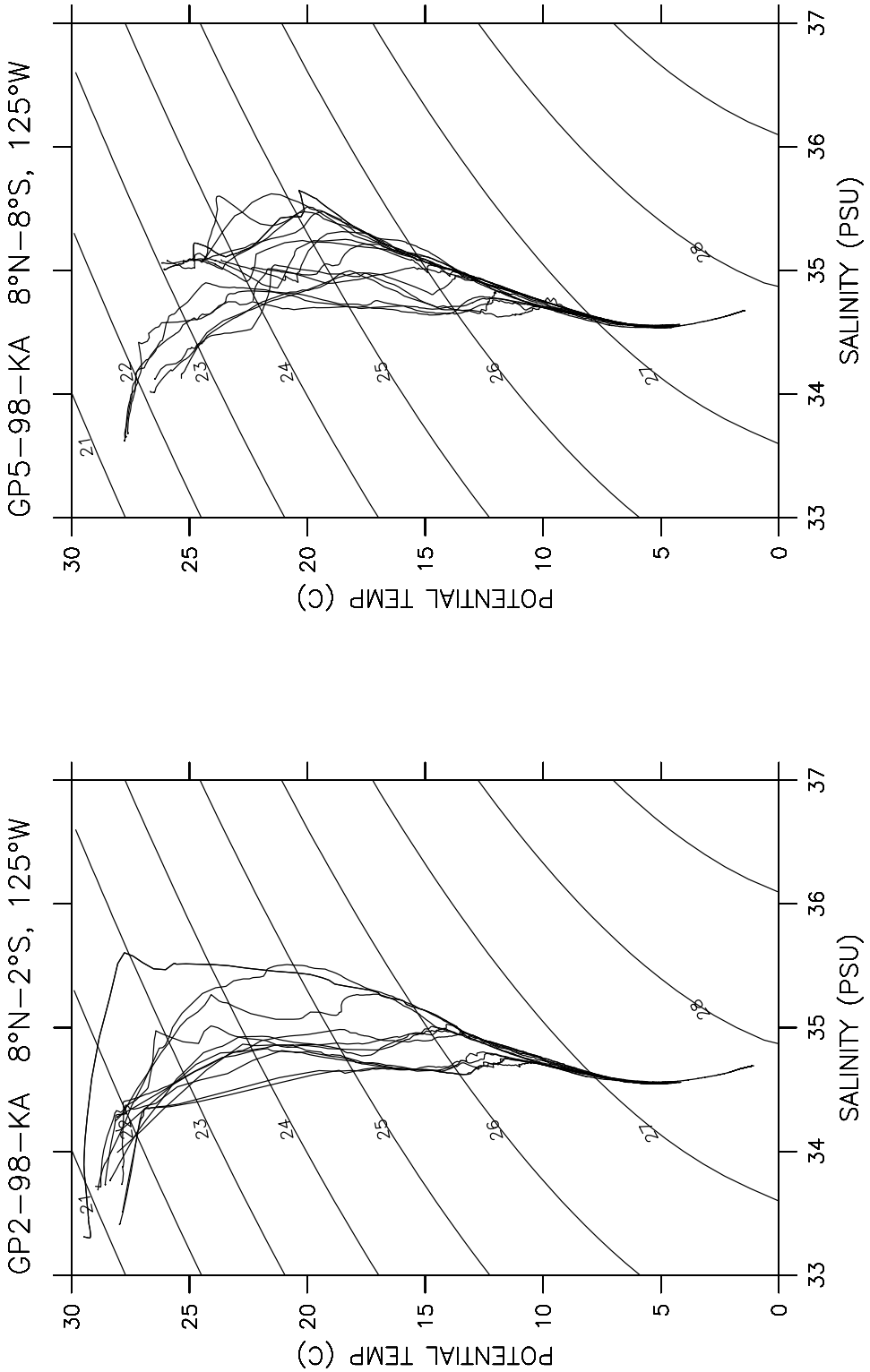


Figure 53: GP2-98-KA spring and GP5-98-KA summer composite TS diagrams along 125°W.

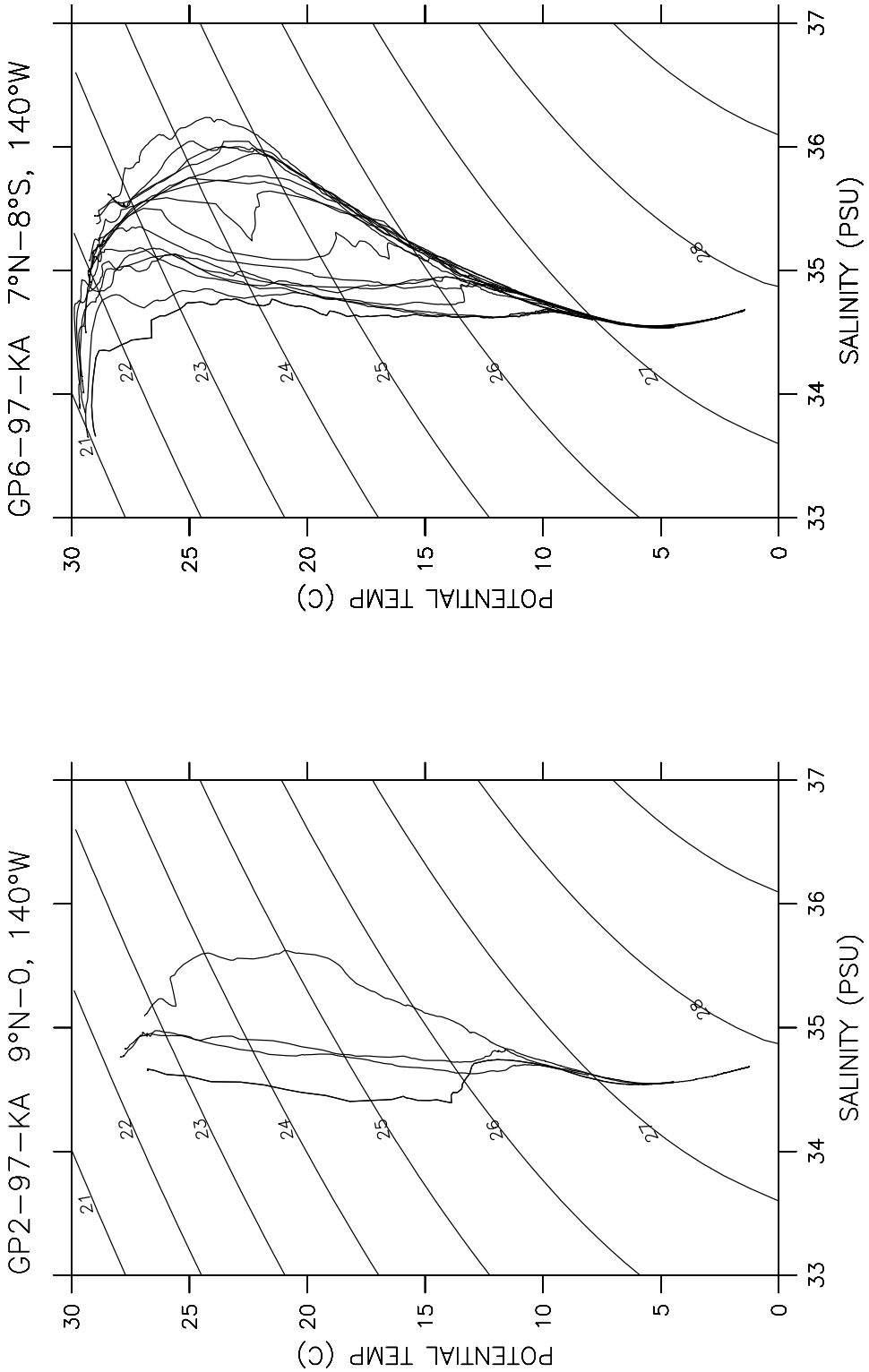


Figure 54: GP2-97-KA spring and GP6-97-KA fall composite TS diagrams along 140°W.

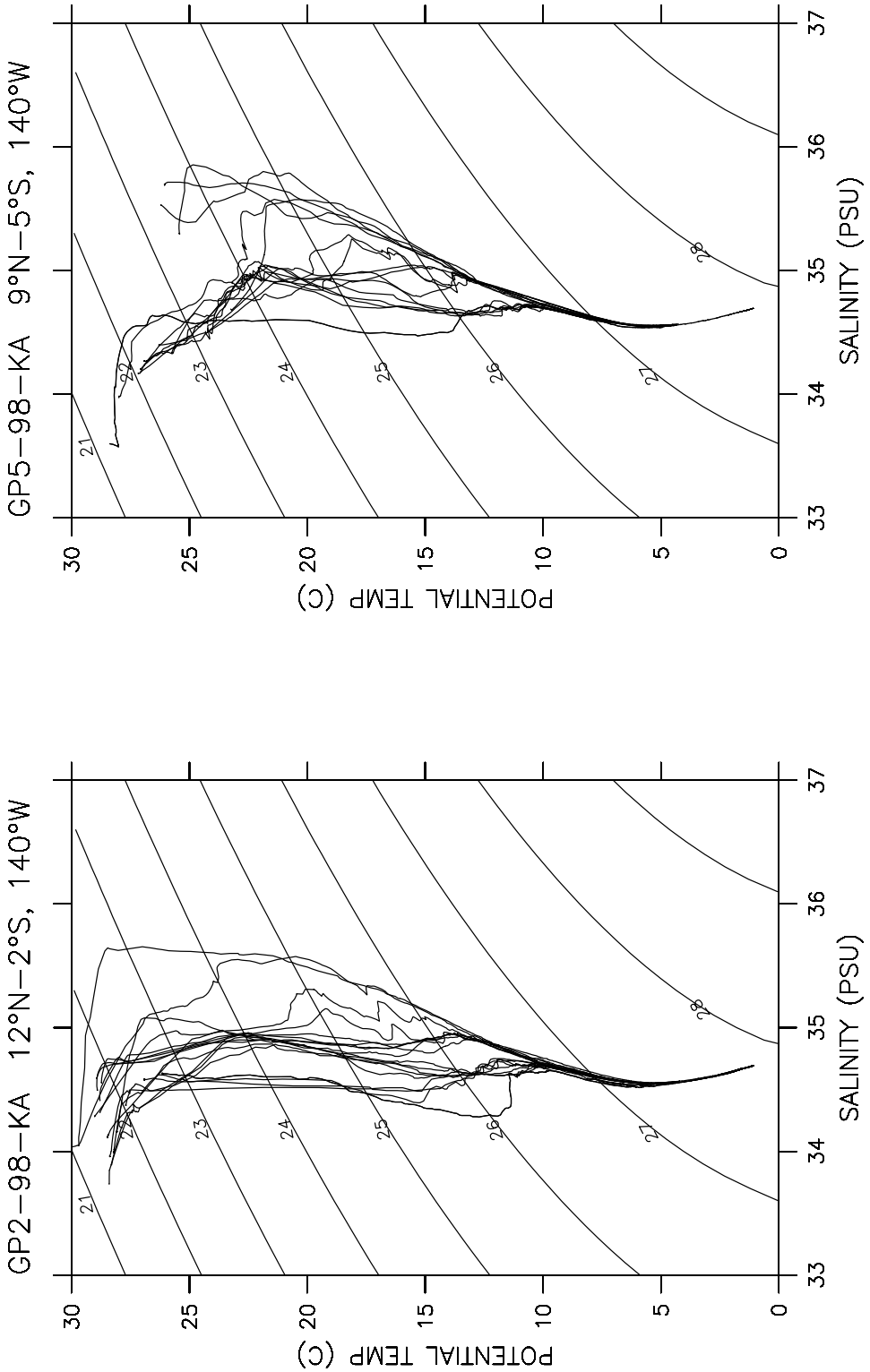


Figure 55: GP2-98-KA spring and GP5-98-KA summer composite TS diagrams along 140°W.

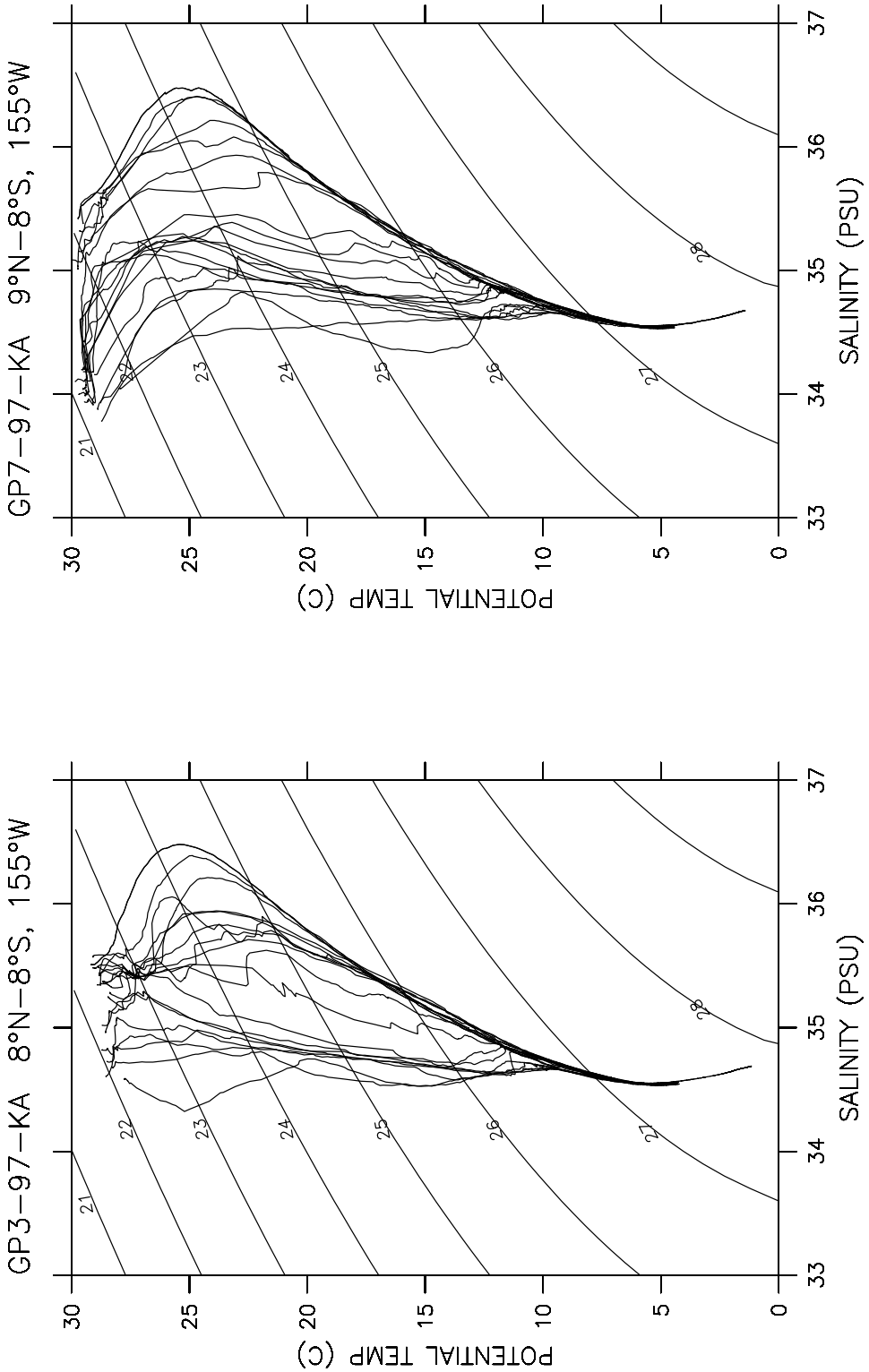


Figure 56: GP3-97-KA spring and GP7-97-KA fall composite TS diagrams along 155°W.

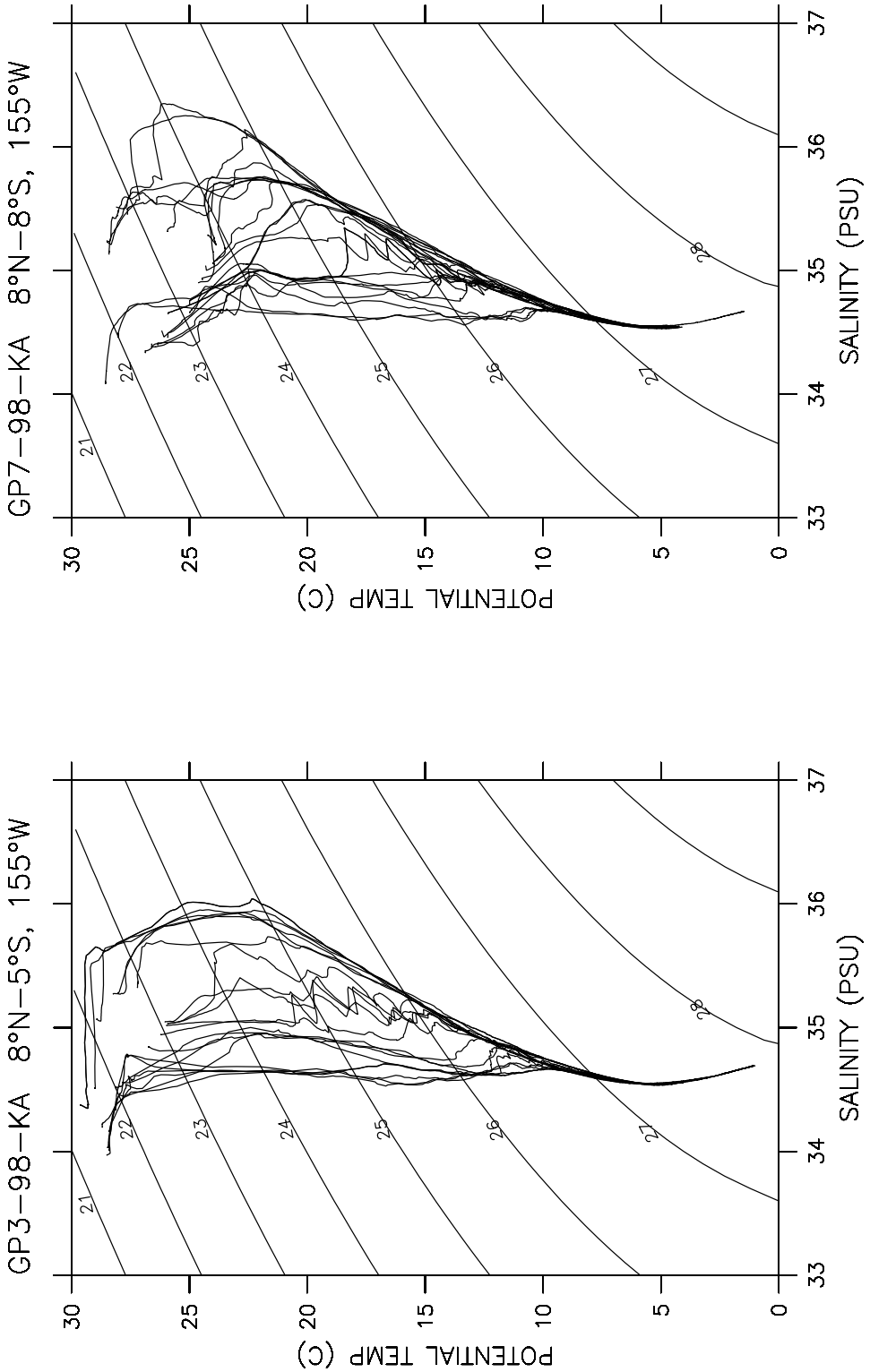


Figure 57: GP3-98-KA spring and GP7-98-KA fall composite TS diagrams along 155°W.

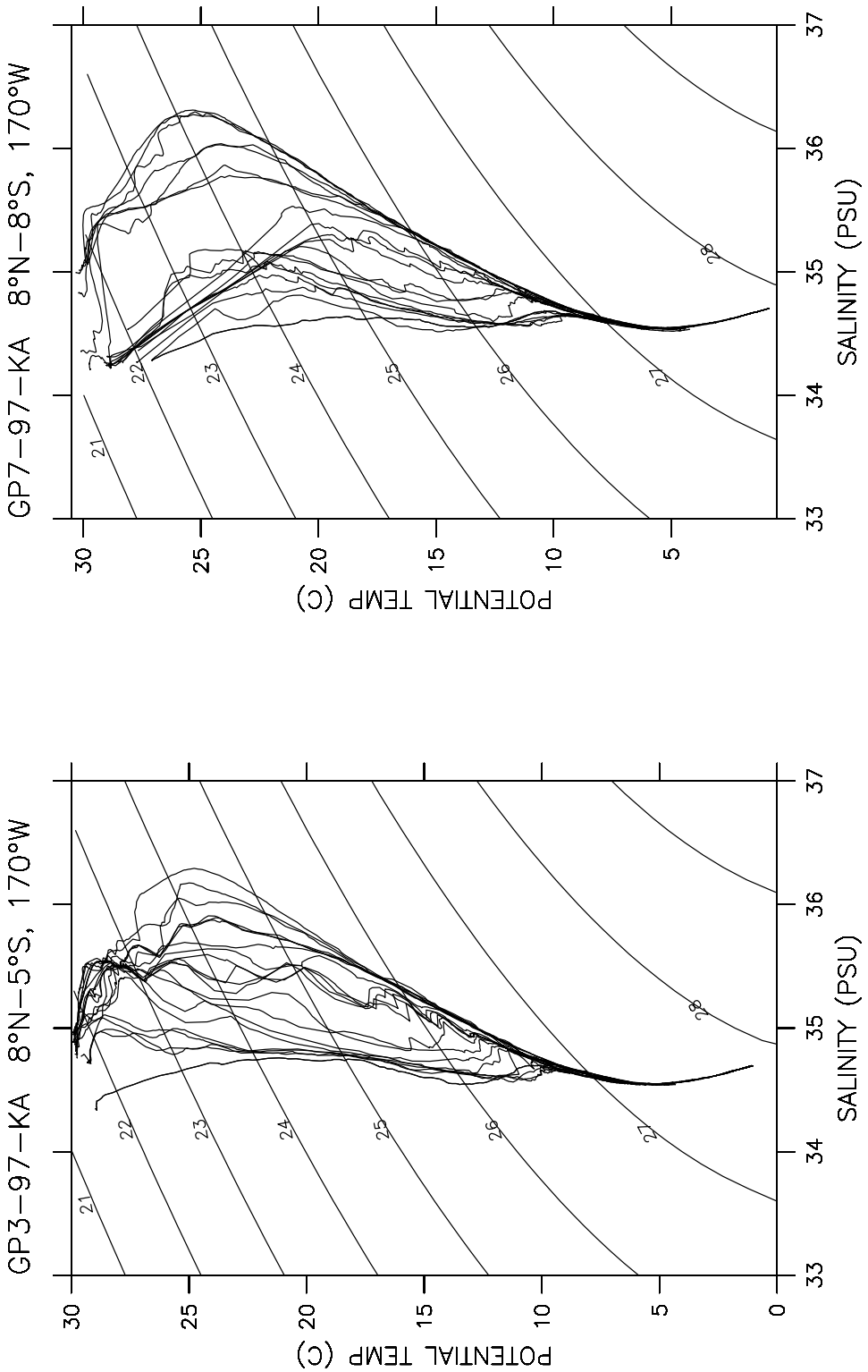


Figure 58: GP3-97-KA spring and GP7-97-KA fall composite TS diagrams along 170°W.

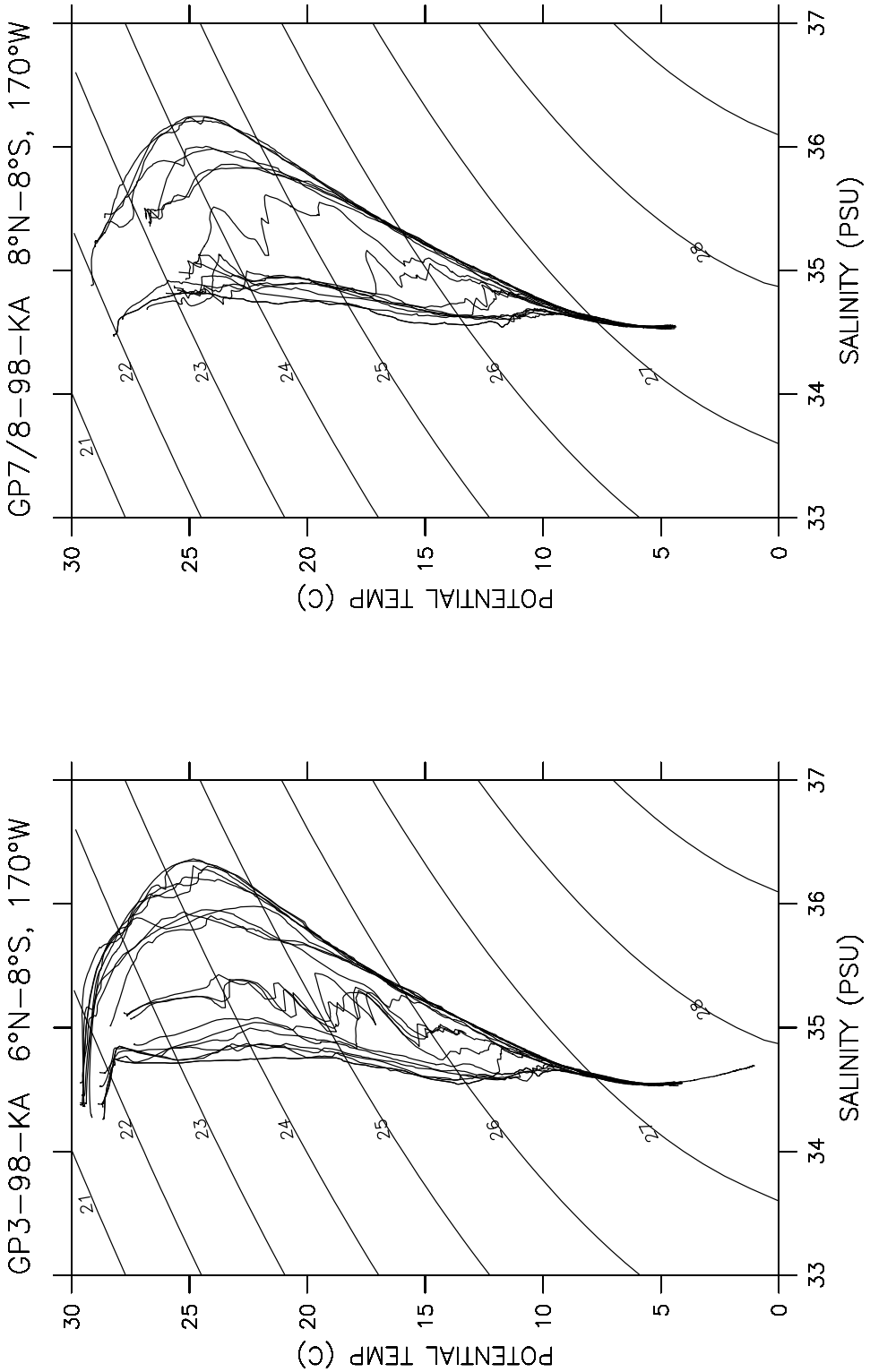


Figure 59: GP3-98-KA spring and GP7/8-98-KA fall composite TS diagrams along 170°W.

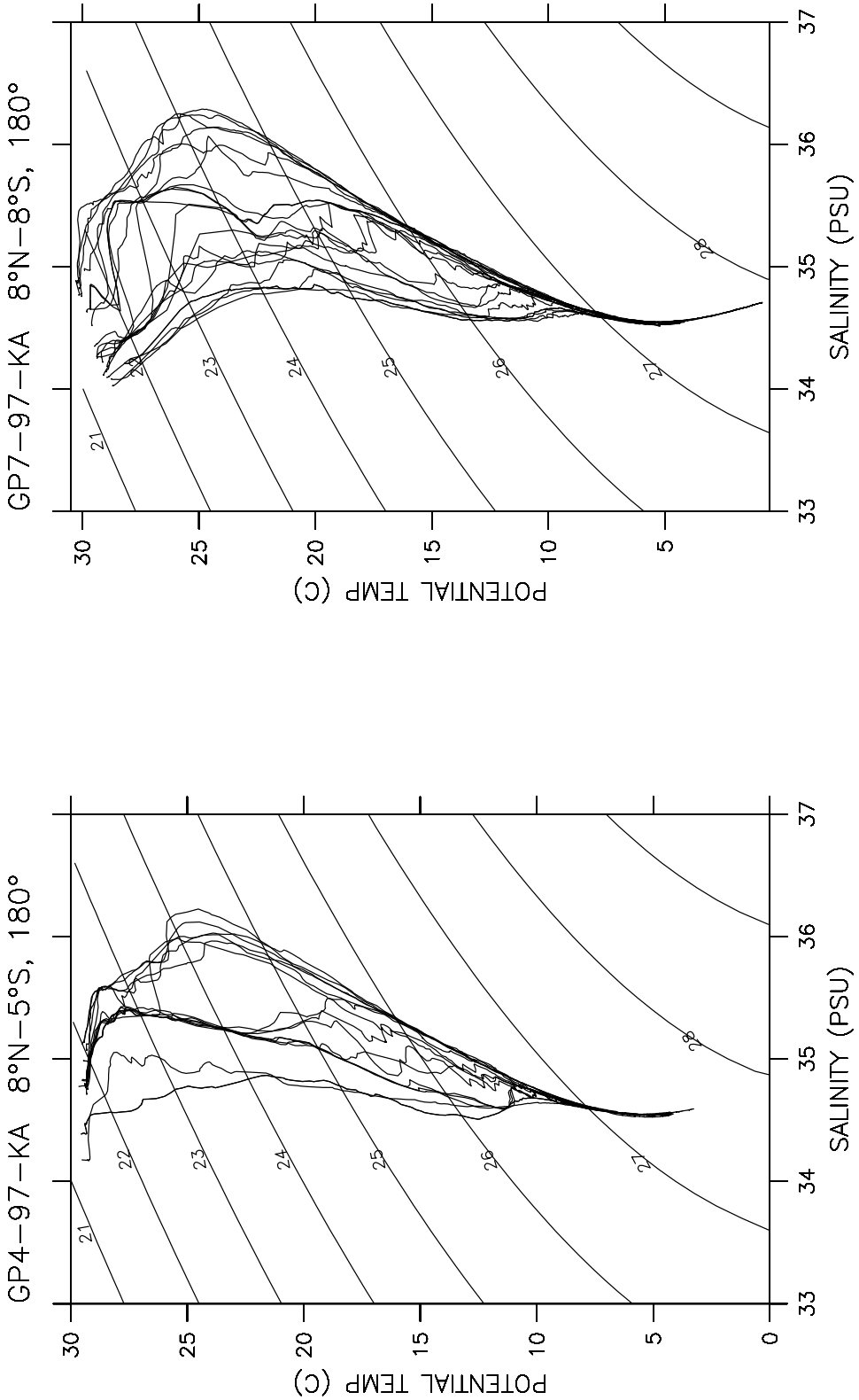


Figure 60: GP4-97-KA spring and GP7-97-KA fall composite TS diagrams along 180°.

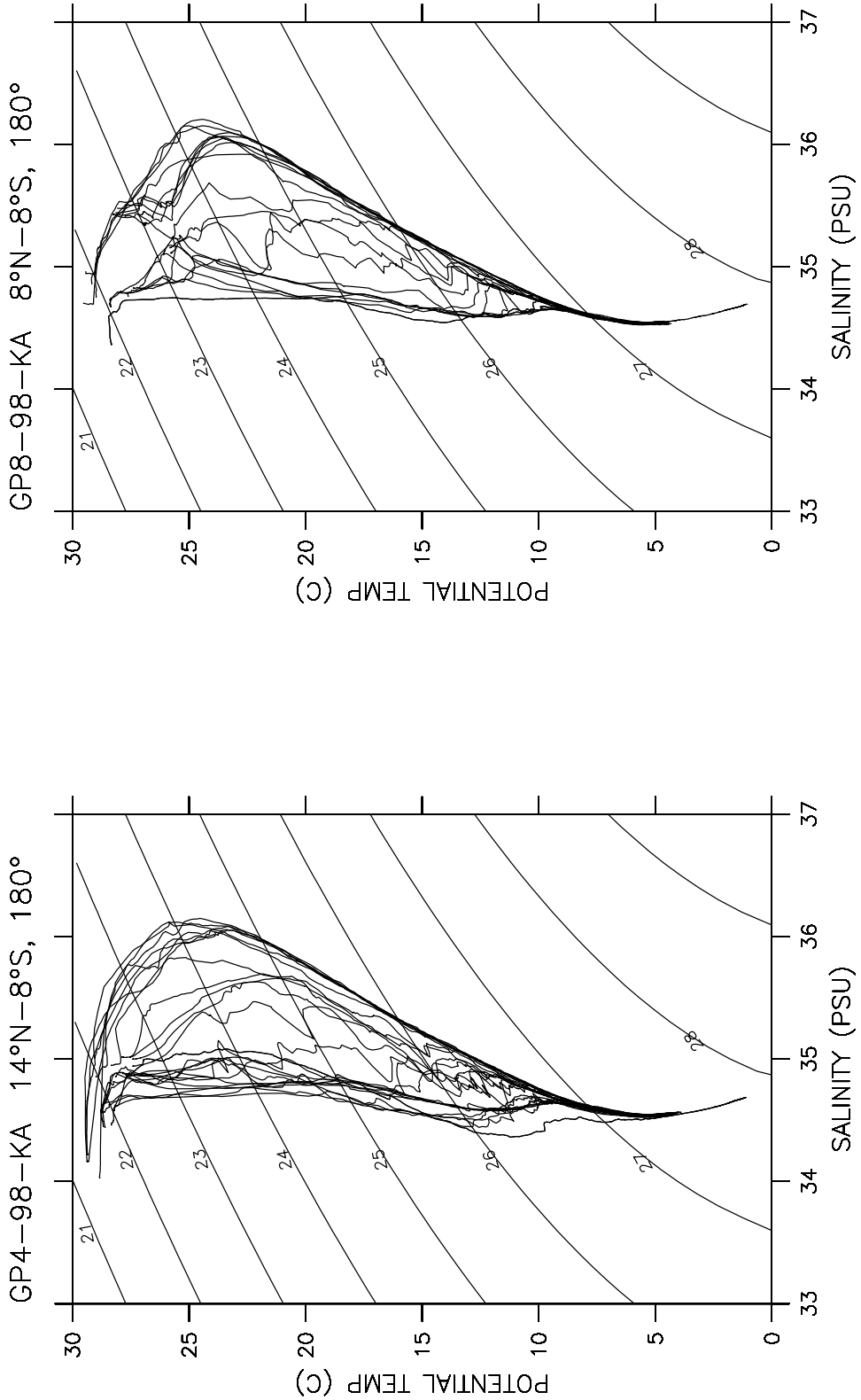


Figure 61: GP4-98-KA summer and GP8-98-KA fall composite TS diagrams along 180°.

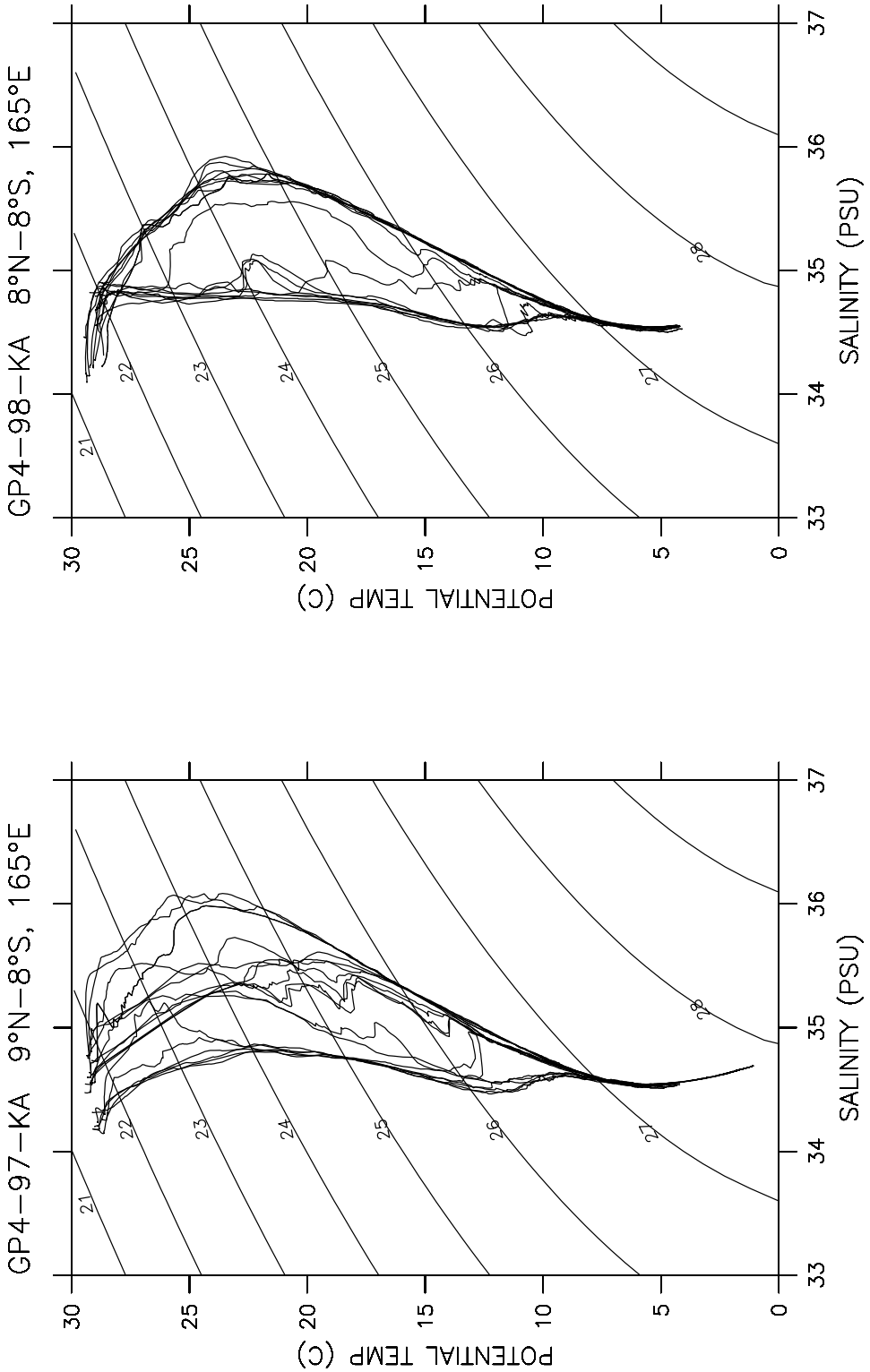
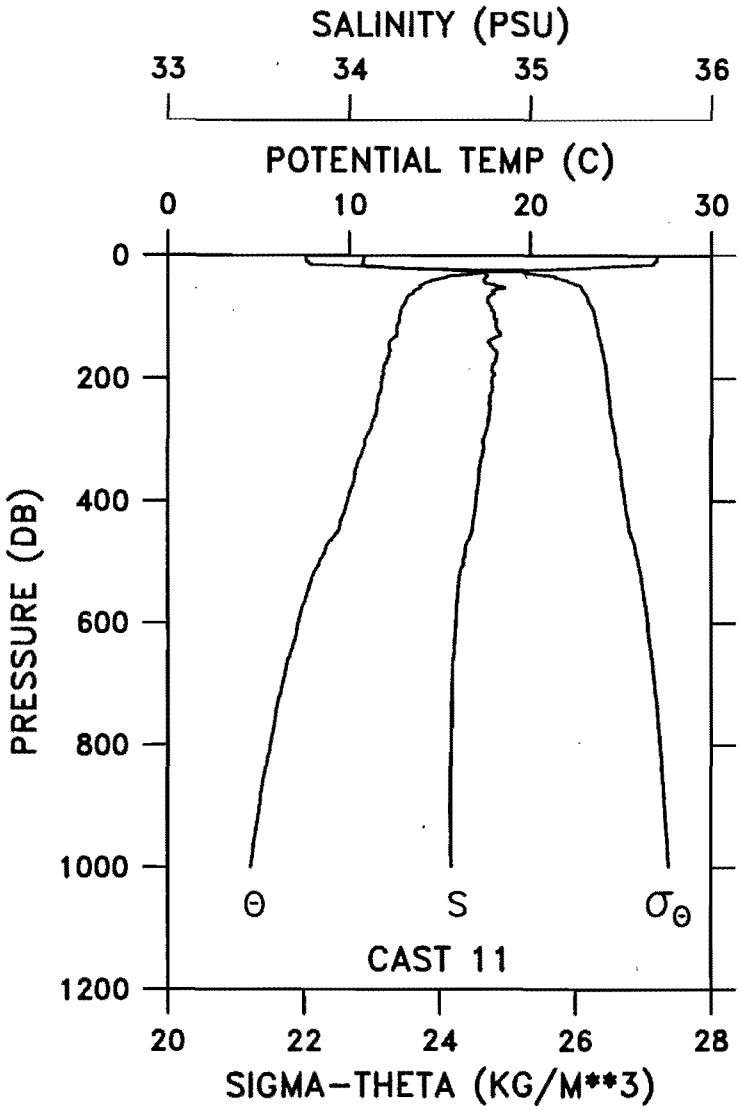


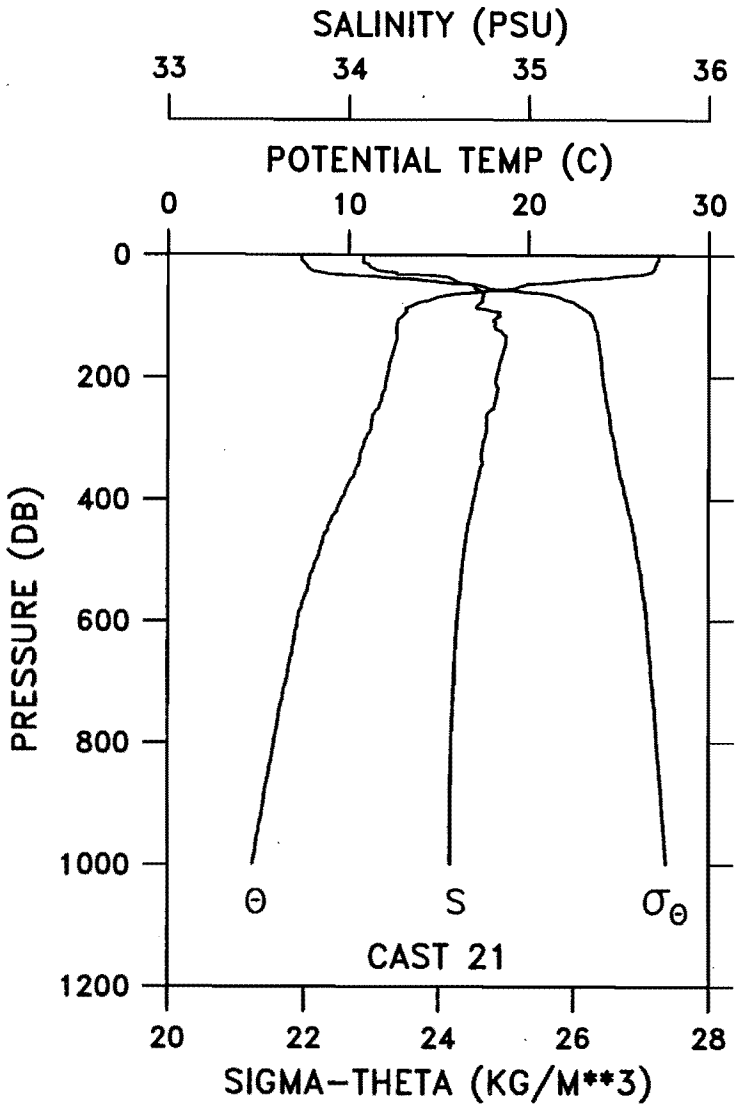
Figure 62: GP4-97-KA spring and GP4-98-KA summer composite TS diagrams along 165°E.

GP1-97-KA
February 3–March 5, 1997
CTD and Hydrographic Data Summary



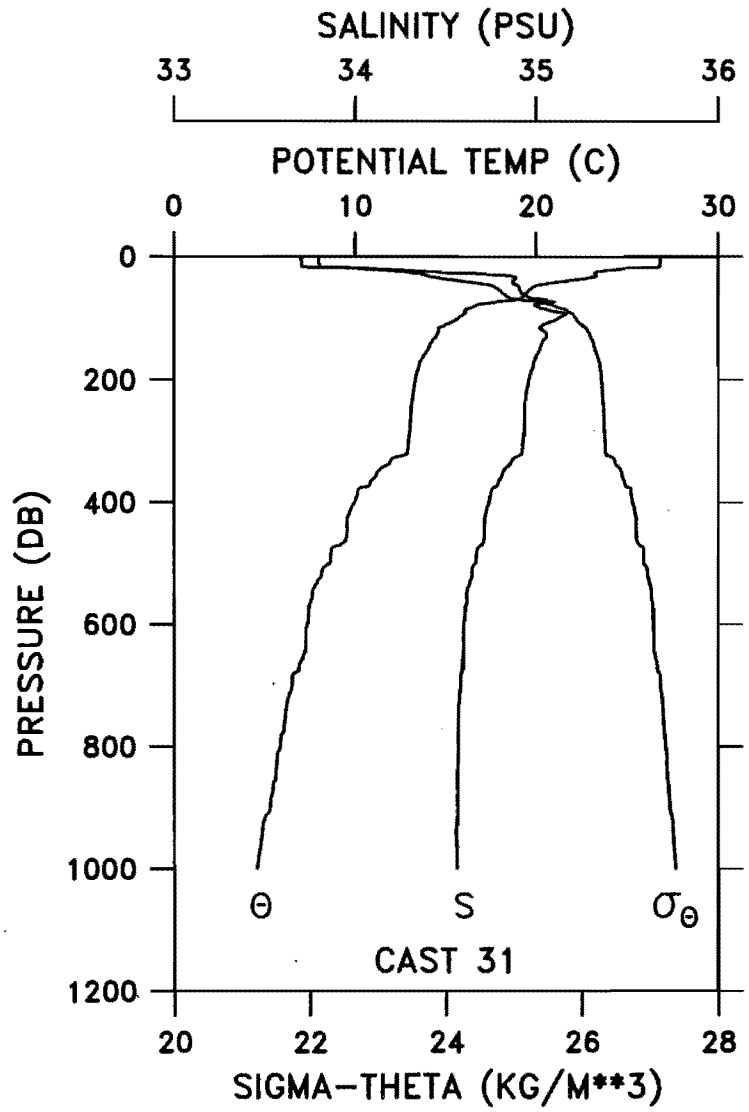
CAST GP1-97-KA-0011 DATE 08 FEB 97 TIME 0036 GMT
LAT 07 59.6N LONG 94 56.6W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 067 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 26.5 WET 24.0 DEPTH 3712 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.002	34.082	22.028	0.000
10	26.901	34.075	22.055	0.058
20	23.234	34.230	23.284	0.112
30	16.791	34.756	25.377	0.145
40	14.630	34.745	25.856	0.168
50	13.877	34.826	26.079	0.189
60	13.526	34.795	26.128	0.208
70	13.155	34.763	26.178	0.227
80	13.003	34.775	26.219	0.245
90	12.816	34.792	26.269	0.263
100	12.755	34.800	26.287	0.280
110	12.702	34.808	26.304	0.298
120	12.598	34.817	26.332	0.315
130	12.613	34.831	26.340	0.332
140	12.207	34.767	26.369	0.349
150	12.204	34.790	26.388	0.366
160	12.190	34.814	26.409	0.383
170	12.057	34.806	26.428	0.399
180	11.903	34.789	26.444	0.415
190	11.848	34.792	26.457	0.432
200	11.793	34.787	26.464	0.448
250	11.496	34.776	26.510	0.527
300	10.893	34.741	26.593	0.605
350	10.322	34.719	26.677	0.678
400	9.910	34.701	26.734	0.749
450	9.374	34.679	26.806	0.817
500	8.361	34.630	26.929	0.881
550	7.686	34.600	27.007	0.939
600	7.179	34.592	27.072	0.995
650	6.743	34.578	27.122	1.048
700	6.319	34.570	27.172	1.099
750	5.951	34.566	27.216	1.147
800	5.646	34.563	27.252	1.194
900	5.061	34.562	27.321	1.282
1000	4.578	34.565	27.378	1.365
1001	4.574	34.564	27.378	1.366



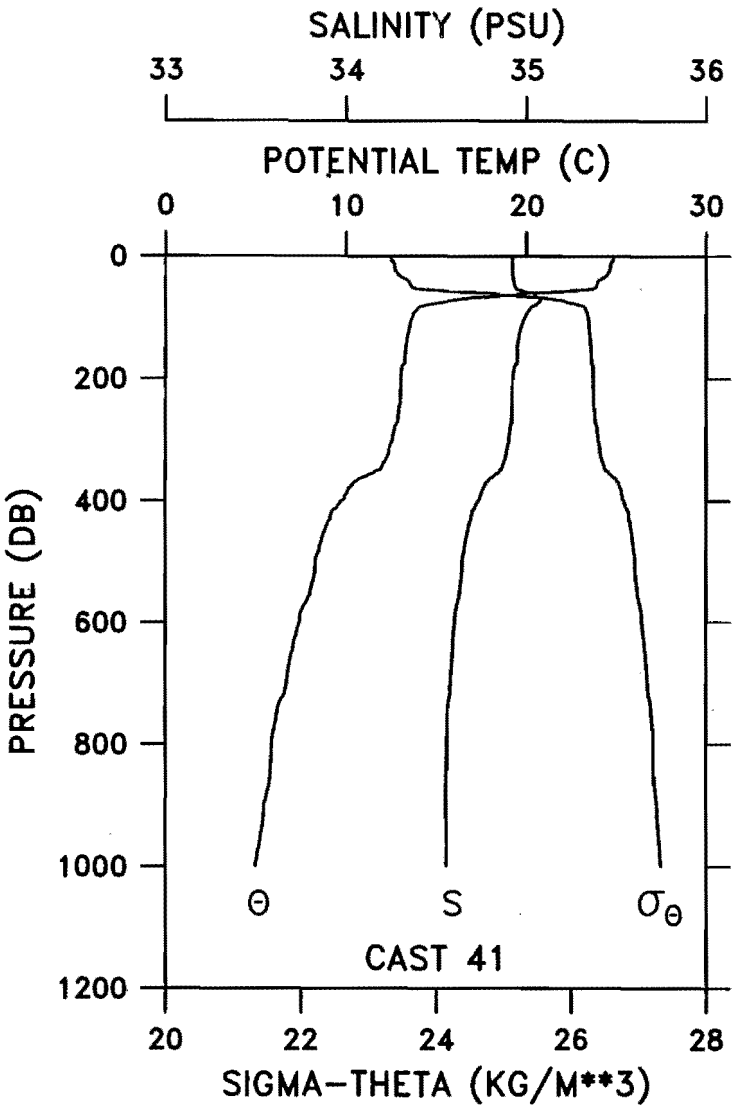
CAST GP1-97-KA-0021 DATE 08 FEB 97 TIME 2353 GMT
LAT 04 58.8N LONG 94 56.0W WEATHER 1 SEA STATE 1
BAROMETER 09 WIND DIR 037 T SPD 05 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 27.3 WET 24.2 DEPTH 3770 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.197	34.081	21.965	0.000
10	27.115	34.079	21.990	0.058
20	27.011	34.120	22.054	0.116
30	26.490	34.267	22.329	0.173
40	22.828	34.582	23.668	0.222
50	19.656	34.691	24.617	0.260
60	17.308	34.734	25.238	0.291
70	14.793	34.740	25.818	0.315
80	13.693	34.722	26.037	0.336
90	13.177	34.782	26.189	0.355
100	12.936	34.838	26.281	0.373
110	12.698	34.816	26.311	0.390
120	12.641	34.817	26.323	0.407
130	12.655	34.863	26.356	0.424
140	12.631	34.874	26.369	0.441
150	12.527	34.866	26.383	0.458
160	12.430	34.856	26.395	0.475
170	12.323	34.846	26.408	0.491
180	12.228	34.836	26.419	0.508
190	12.173	34.829	26.424	0.524
200	12.092	34.821	26.433	0.541
250	11.649	34.806	26.506	0.621
300	10.944	34.756	26.596	0.699
350	10.388	34.731	26.675	0.772
400	9.583	34.694	26.784	0.842
450	8.826	34.660	26.880	0.907
500	8.194	34.636	26.959	0.967
550	7.687	34.621	27.023	1.025
600	7.132	34.603	27.088	1.079
650	6.857	34.593	27.118	1.132
700	6.501	34.585	27.160	1.183
750	6.108	34.578	27.205	1.233
800	5.838	34.571	27.234	1.280
900	5.248	34.566	27.302	1.371
1000	4.660	34.564	27.368	1.455
1002	4.658	34.563	27.368	1.457



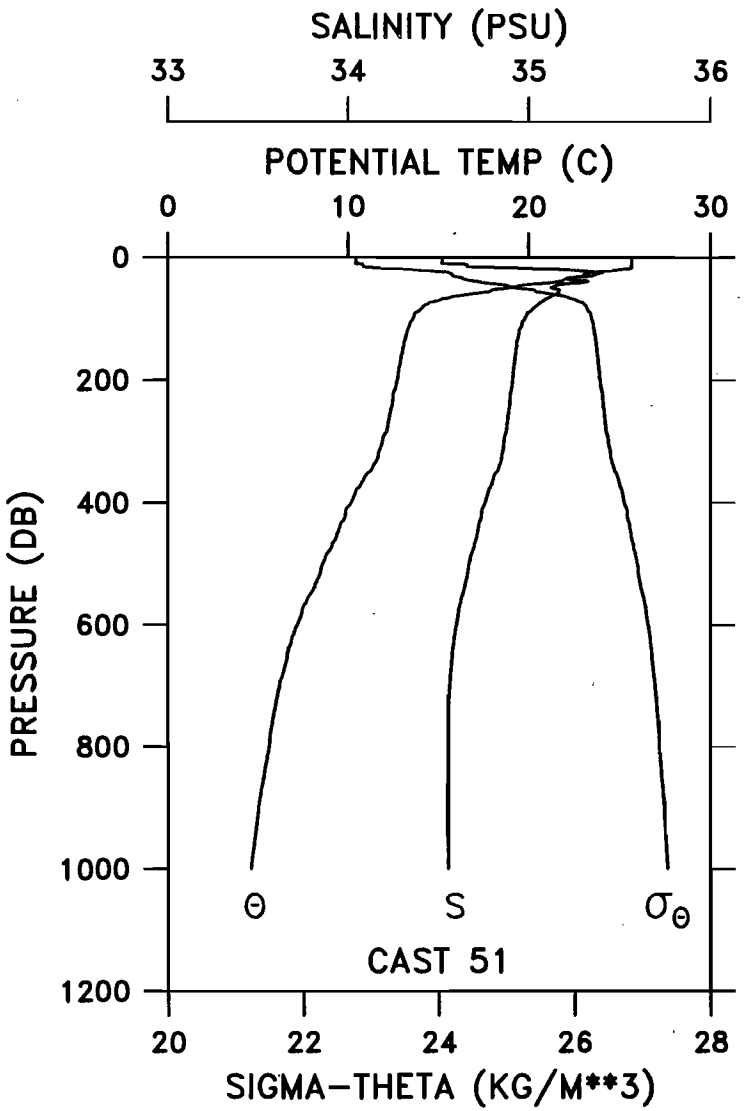
CAST GP1-97-KA-0031 DATE 12 FEB 97 TIME 1118 GMT
LAT 00 08.1N LONG 95 16.7W WEATHER 9 SEA STATE 3
BAROMETER 09 WIND DIR 163 T SPD 11 KT VISIBILITY 0
CLOUD X AMOUNT 9 DRY 25.4 WET 23.5 DEPTH 3330 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.846	33.802	21.867	0.000
10	26.824	33.802	21.873	0.059
20	24.681	34.127	22.780	0.117
30	23.320	34.819	23.706	0.162
40	21.533	34.870	24.251	0.201
50	19.818	34.906	24.739	0.235
60	19.408	34.924	24.860	0.267
70	18.810	35.061	25.117	0.297
80	16.615	35.004	25.609	0.323
90	16.102	35.123	25.820	0.345
100	15.687	35.124	25.915	0.367
110	15.023	35.041	25.999	0.388
120	14.608	35.041	26.090	0.407
130	14.481	35.059	26.131	0.427
140	14.185	35.032	26.173	0.446
150	14.039	35.021	26.196	0.464
160	13.801	35.003	26.232	0.483
170	13.605	34.989	26.262	0.501
180	13.504	34.982	26.277	0.519
190	13.399	34.969	26.289	0.537
200	13.338	34.961	26.295	0.554
250	13.092	34.938	26.327	0.643
300	12.953	34.928	26.347	0.731
350	11.244	34.817	26.589	0.814
400	9.984	34.740	26.752	0.886
450	9.562	34.715	26.803	0.953
500	8.601	34.663	26.918	1.017
550	7.643	34.615	27.025	1.075
600	7.351	34.601	27.056	1.130
650	7.145	34.596	27.081	1.185
700	6.497	34.583	27.159	1.237
750	6.114	34.572	27.200	1.286
800	5.836	34.571	27.235	1.333
900	5.287	34.565	27.297	1.424
1000	4.557	34.562	27.378	1.507
1500	3.049	34.605	27.565	1.867
2000	2.076	34.646	27.682	2.150
2500	1.717	34.665	27.726	2.398
3000	1.525	34.677	27.750	2.629
3004	1.525	34.677	27.749	2.631



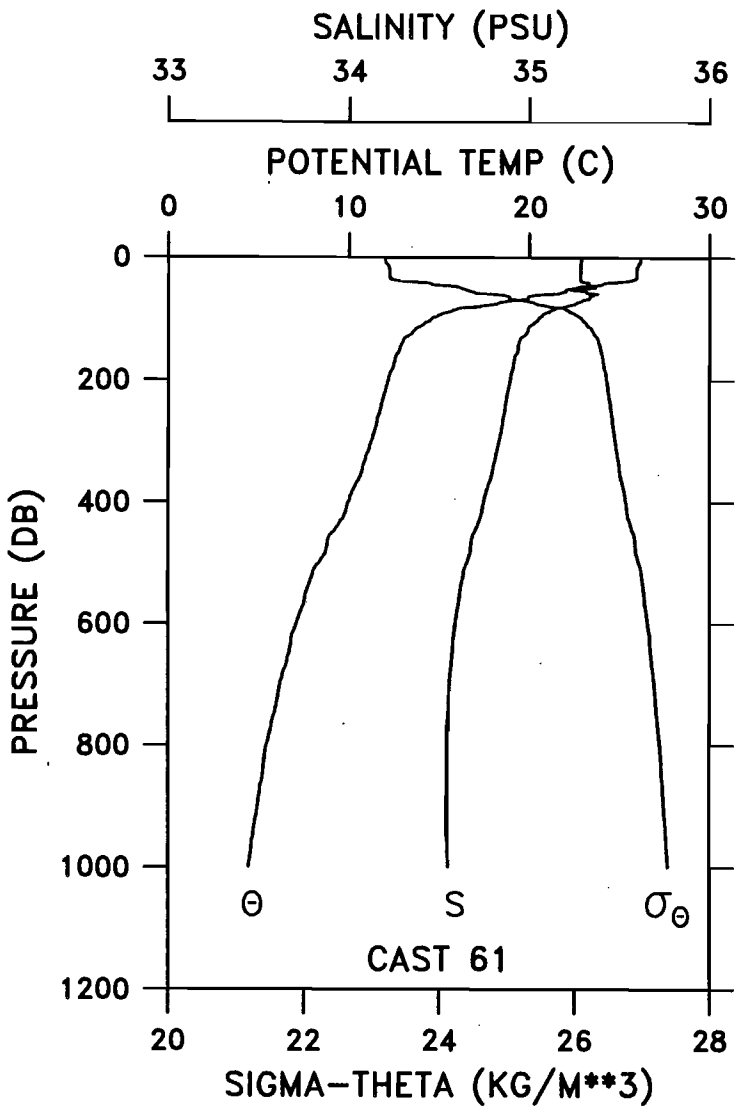
CAST GP1-97-KA-0041 DATE 13 FEB 97 TIME 1809 GMT
LAT 01 56.3S LONG 95 01.9W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 135 T SPD 10 KT VISIBILITY 7
CLOUD 8 AMOUNT 1 DRY 26.1 WET 23.0 DEPTH 3390 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.841	34.922	23.333	0.000
10	24.723	34.920	23.367	0.045
20	24.666	34.921	23.384	0.090
30	24.517	34.922	23.430	0.135
40	24.009	34.929	23.586	0.179
50	23.859	34.936	23.636	0.222
60	20.051	35.046	24.785	0.261
70	16.323	35.080	25.736	0.289
80	14.376	35.054	26.150	0.309
90	13.817	35.009	26.233	0.328
100	13.644	34.989	26.253	0.346
110	13.541	34.976	26.265	0.364
120	13.469	34.965	26.271	0.381
130	13.388	34.957	26.281	0.399
140	13.344	34.951	26.286	0.417
150	13.286	34.947	26.294	0.434
160	13.259	34.949	26.301	0.452
170	13.245	34.949	26.304	0.469
180	13.077	34.932	26.326	0.487
190	13.034	34.926	26.329	0.504
200	13.021	34.924	26.330	0.522
250	12.913	34.919	26.348	0.609
300	12.551	34.902	26.406	0.695
350	11.704	34.852	26.531	0.778
400	9.757	34.732	26.784	0.849
450	8.817	34.674	26.892	0.913
500	8.310	34.644	26.948	0.974
550	8.033	34.630	26.978	1.033
600	7.419	34.601	27.046	1.090
650	6.986	34.588	27.097	1.144
700	6.696	34.578	27.128	1.196
750	6.166	34.563	27.186	1.247
800	5.899	34.557	27.216	1.295
900	5.468	34.552	27.265	1.390
1000	4.981	34.555	27.324	1.480
1006	4.953	34.555	27.328	1.485



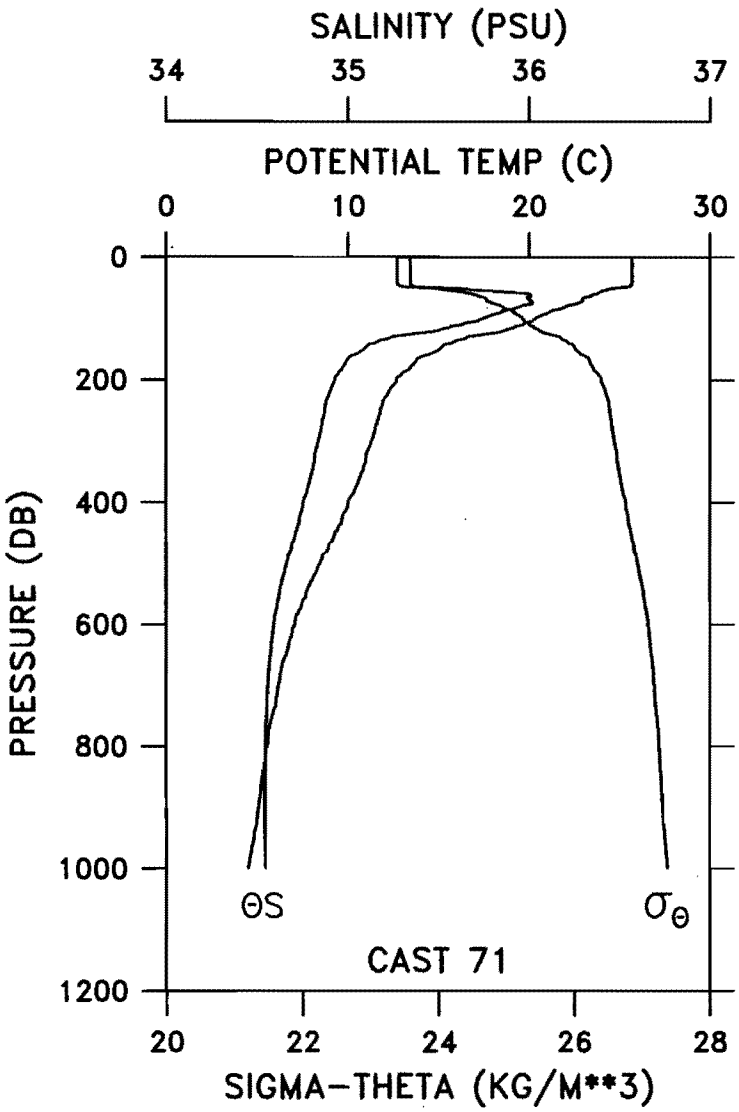
CAST GP1-97-KA-0051 DATE 14 FEB 97 TIME 2126 GMT
LAT 05 02.0S LONG 95 05.6W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 145 T SPD 08 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 26.8 WET 24.0 DEPTH 3834 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.647	34.523	22.785	0.000
10	25.645	34.520	22.783	0.051
20	24.865	35.227	23.556	0.099
30	22.950	35.347	24.213	0.138
40	21.415	35.309	24.617	0.173
50	18.818	35.130	25.168	0.203
60	16.700	35.142	25.696	0.229
70	14.998	35.080	26.035	0.250
80	14.148	35.035	26.184	0.269
90	13.727	34.993	26.240	0.287
100	13.563	34.977	26.261	0.305
110	13.395	34.962	26.284	0.323
120	13.266	34.946	26.298	0.340
130	13.174	34.941	26.313	0.358
140	13.086	34.933	26.324	0.375
150	13.022	34.929	26.334	0.392
160	12.950	34.924	26.345	0.409
170	12.906	34.921	26.351	0.427
180	12.825	34.916	26.363	0.444
190	12.777	34.913	26.371	0.461
200	12.718	34.910	26.380	0.478
250	12.337	34.888	26.438	0.561
300	11.910	34.863	26.500	0.643
350	11.177	34.820	26.603	0.721
400	10.177	34.758	26.733	0.793
450	9.410	34.715	26.828	0.861
500	8.595	34.669	26.923	0.924
550	7.912	34.634	27.000	0.983
600	7.185	34.599	27.077	1.039
650	6.608	34.576	27.138	1.091
700	6.184	34.562	27.183	1.141
750	5.836	34.555	27.222	1.189
800	5.606	34.554	27.249	1.235
900	5.017	34.552	27.318	1.324
1000	4.594	34.554	27.368	1.408
1001	4.596	34.554	27.367	1.408



CAST GP1-97-KA-0061 DATE 15 FEB 97 TIME 2122 GMT
LAT 07 50.5S LONG 95 06.9W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 136 T SPD 14 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 25.9 WET 24.3 DEPTH 3982 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.146	35.287	23.206	0.000
10	26.069	35.284	23.228	0.047
20	25.942	35.283	23.267	0.093
30	25.927	35.283	23.272	0.139
40	24.735	35.302	23.652	0.184
50	22.500	35.315	24.317	0.223
60	20.848	35.342	24.797	0.258
70	18.989	35.292	25.249	0.287
80	17.175	35.196	25.624	0.313
90	15.349	35.092	25.966	0.335
100	14.546	35.049	26.109	0.354
110	14.068	35.009	26.180	0.373
120	13.567	34.990	26.270	0.391
130	13.127	34.955	26.333	0.409
140	12.922	34.940	26.363	0.426
150	12.795	34.936	26.385	0.443
160	12.602	34.919	26.410	0.459
170	12.525	34.913	26.420	0.476
180	12.431	34.907	26.434	0.492
190	12.259	34.898	26.461	0.508
200	12.180	34.892	26.472	0.525
250	11.717	34.863	26.537	0.603
300	11.230	34.831	26.602	0.680
350	10.712	34.795	26.668	0.754
400	9.965	34.746	26.760	0.824
450	9.066	34.694	26.868	0.890
500	8.355	34.654	26.949	0.952
550	7.592	34.616	27.032	1.009
600	7.079	34.591	27.086	1.064
650	6.652	34.573	27.130	1.116
700	6.164	34.558	27.182	1.167
750	5.830	34.550	27.219	1.215
800	5.424	34.543	27.263	1.261
900	4.939	34.543	27.320	1.349
1000	4.452	34.549	27.380	1.431
1001	4.450	34.549	27.380	1.432

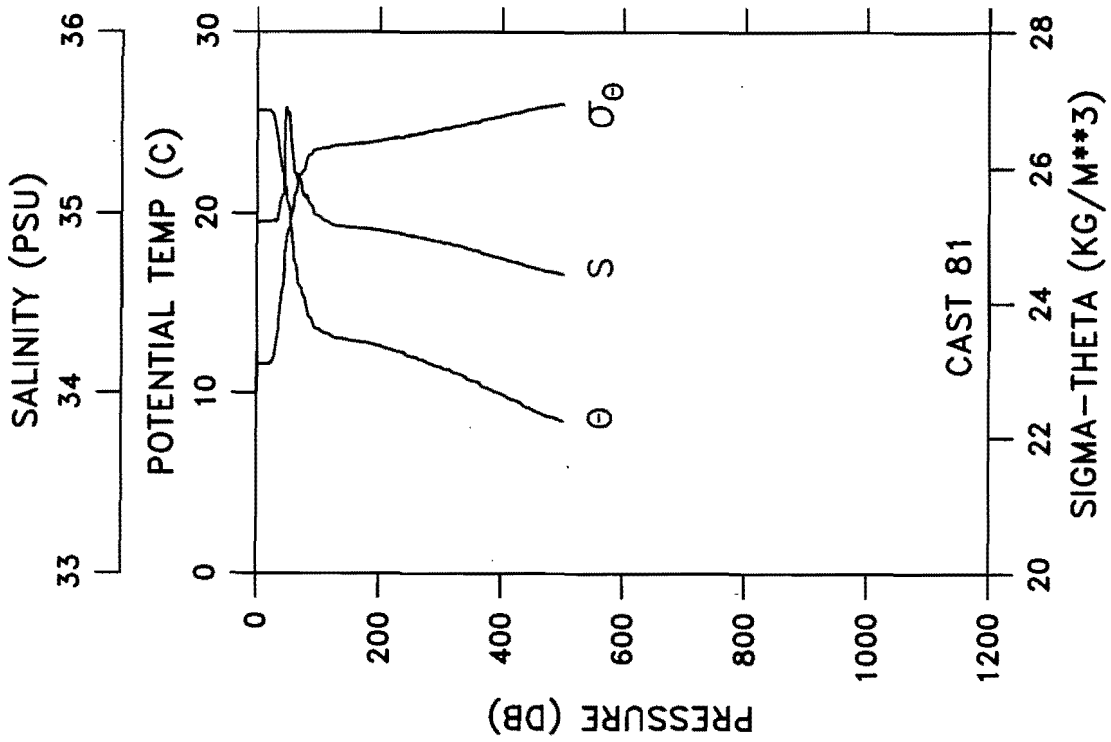


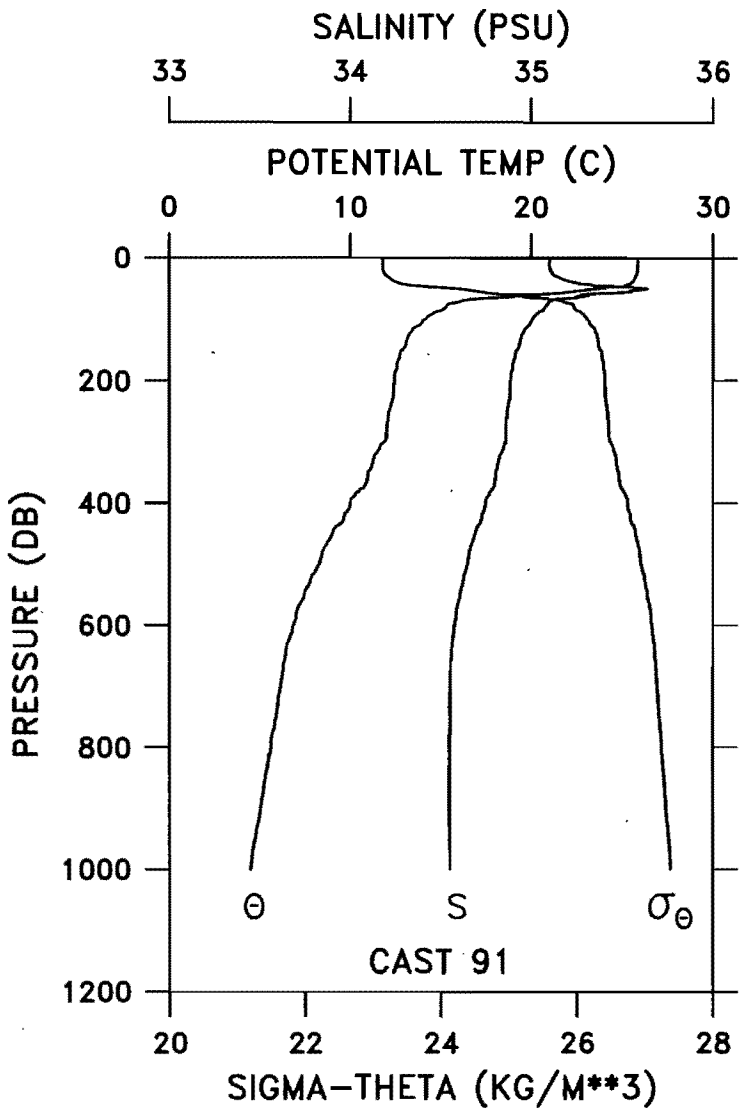
CAST GP1-97-KA-0071 DATE 19 FEB 97 TIME 1317 GMT
LAT 08 03.4S LONG 109 53.2W WEATHER 9 SEA STATE 3
BAROMETER 09 WIND DIR 115 T SPD 14 KT VISIBILITY 0
CLOUD X AMOUNT 9 DRY 25.0 WET 21.4 DEPTH 3500 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.706	35.342	23.385	0.000
10	25.708	35.343	23.385	0.045
20	25.703	35.344	23.387	0.090
30	25.704	35.344	23.387	0.135
40	25.699	35.344	23.389	0.180
50	24.796	35.504	23.786	0.224
60	23.679	36.004	24.498	0.262
70	22.958	36.001	24.707	0.295
80	22.050	35.953	24.930	0.326
90	21.092	35.842	25.111	0.356
100	20.362	35.745	25.236	0.384
110	19.618	35.627	25.342	0.411
120	18.594	35.489	25.499	0.437
130	16.556	35.239	25.804	0.461
140	15.708	35.149	25.929	0.483
150	15.060	35.086	26.026	0.503
160	14.218	35.024	26.161	0.523
170	13.735	34.991	26.236	0.541
180	13.420	34.969	26.285	0.559
190	12.969	34.947	26.358	0.577
200	12.676	34.927	26.402	0.594
250	11.790	34.872	26.530	0.674
300	11.290	34.837	26.596	0.751
350	10.780	34.803	26.662	0.825
400	10.015	34.755	26.758	0.895
450	9.279	34.710	26.846	0.962
500	8.465	34.662	26.938	1.025
550	7.697	34.622	27.022	1.083
600	7.072	34.593	27.088	1.138
650	6.591	34.573	27.138	1.190
700	6.158	34.558	27.183	1.239
750	5.813	34.551	27.221	1.288
800	5.519	34.544	27.253	1.334
900	5.067	34.541	27.304	1.423
1000	4.478	34.546	27.374	1.507
1500	2.861	34.598	27.577	1.856
2000	2.121	34.641	27.674	2.136
2500	1.700	34.669	27.730	2.383
3000	1.504	34.680	27.753	2.615
3003	1.502	34.680	27.753	2.616

CAST GP1-97-KA-0081 DATE 20 FEB 97 TIME 1520 GMT
LAT 04 59.6S LONG 110 01.3W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 145 T SPD 12 KT VISIBILITY 0
CLOUD 1 AMOUNT 3 DRY 25.6 WET 23.6 DEPTH 3409 M

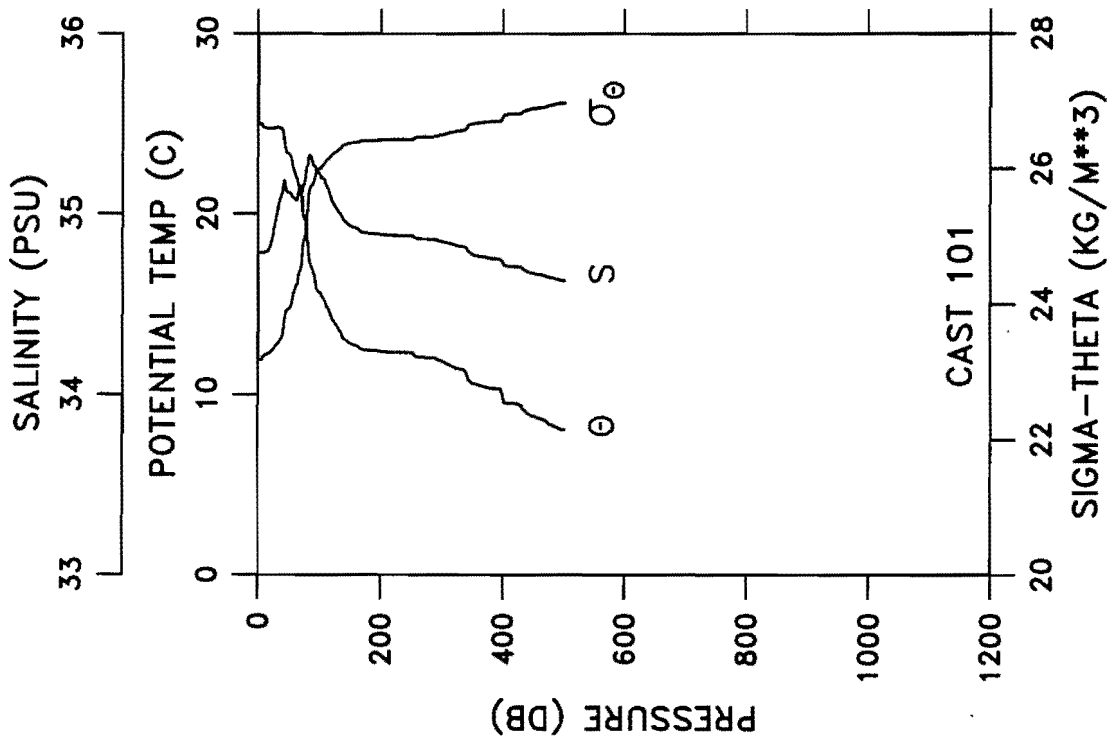
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.669	34.951	23.101	0.000
10	25.667	34.953	23.103	0.048
20	25.661	34.953	23.105	0.095
30	24.830	34.956	23.361	0.142
40	22.472	35.094	24.157	0.184
50	20.590	35.553	25.027	0.217
60	17.592	35.231	25.550	0.245
70	15.928	35.181	25.904	0.267
80	14.772	35.098	26.098	0.288
90	13.964	35.030	26.219	0.306
100	13.546	34.986	26.272	0.324
110	13.324	34.957	26.295	0.342
120	13.192	34.942	26.310	0.359
130	13.035	34.929	26.332	0.376
140	13.006	34.926	26.335	0.393
150	12.930	34.921	26.346	0.411
160	12.877	34.919	26.355	0.428
170	12.830	34.916	26.363	0.445
180	12.789	34.914	26.369	0.462
190	12.708	34.910	26.382	0.479
200	12.626	34.905	26.394	0.495
250	12.047	34.876	26.484	0.578
300	11.459	34.842	26.569	0.656
350	10.714	34.798	26.670	0.731
400	9.944	34.749	26.766	0.801
450	9.119	34.700	26.864	0.867
500	8.451	34.662	26.940	0.929
501	8.449	34.660	26.939	0.930





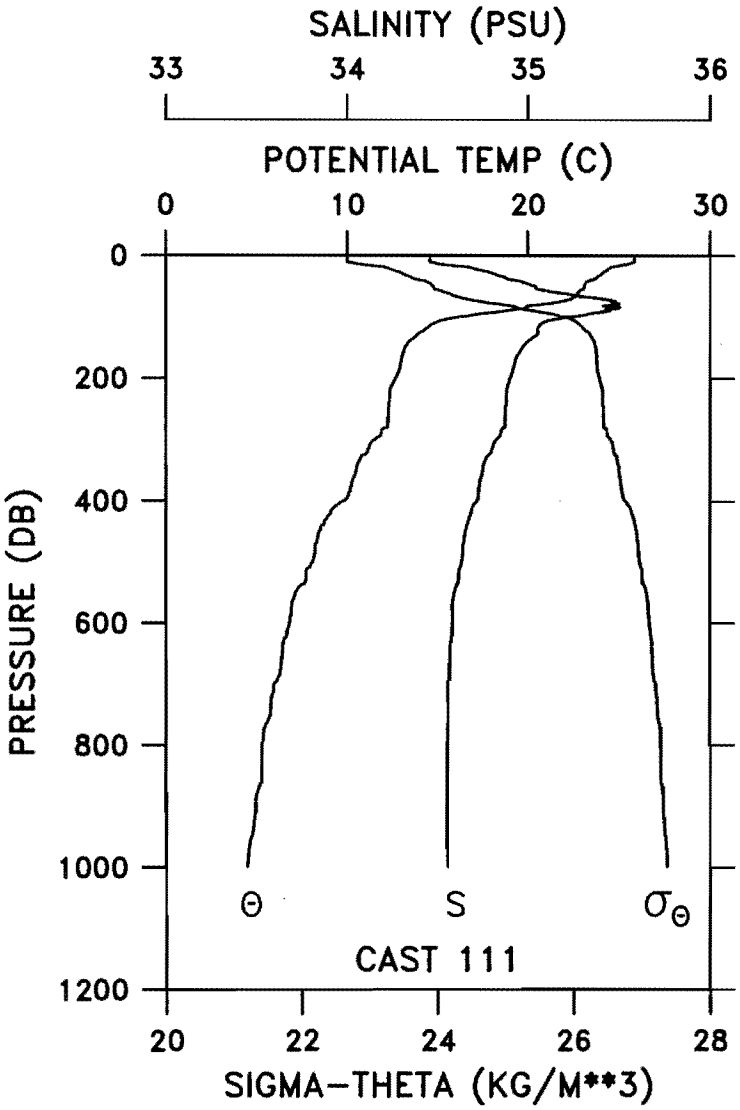
CAST GP1-97-KA-0091 DATE 21 FEB 97 TIME 1039 GMT
LAT 01 59.9S LONG 110 03.6W WEATHER 5 SEA STATE 3
BAROMETER 07 WIND DIR 106 T SPD 18 KT VISIBILITY 1
CLOUD X AMOUNT 9 DRY 24.9 WET 24.0 DEPTH 9999 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.884	35.102	23.149	0.000
10	25.880	35.098	23.147	0.047
20	25.871	35.104	23.154	0.094
30	25.756	35.141	23.218	0.141
40	25.510	35.248	23.374	0.187
50	23.590	35.641	24.250	0.229
60	19.802	35.270	25.021	0.263
70	16.168	35.106	25.791	0.289
80	15.310	35.076	25.963	0.310
90	14.646	35.033	26.075	0.330
100	14.148	35.004	26.159	0.349
110	13.806	34.986	26.217	0.367
120	13.396	34.960	26.282	0.385
130	13.189	34.944	26.312	0.403
140	13.083	34.935	26.327	0.420
150	12.909	34.922	26.351	0.437
160	12.743	34.911	26.376	0.454
170	12.603	34.900	26.395	0.471
180	12.577	34.898	26.398	0.487
190	12.451	34.888	26.415	0.504
200	12.435	34.886	26.417	0.521
250	12.144	34.869	26.460	0.603
300	11.889	34.859	26.501	0.684
350	10.998	34.805	26.625	0.761
400	10.011	34.749	26.754	0.833
450	9.029	34.692	26.873	0.899
500	8.280	34.648	26.956	0.960
550	7.476	34.608	27.043	1.017
600	6.840	34.578	27.108	1.071
650	6.408	34.561	27.153	1.122
700	6.126	34.554	27.184	1.171
750	5.867	34.552	27.216	1.219
800	5.581	34.549	27.248	1.266
900	5.007	34.547	27.315	1.355
1000	4.448	34.553	27.383	1.437
1004	4.426	34.552	27.384	1.440



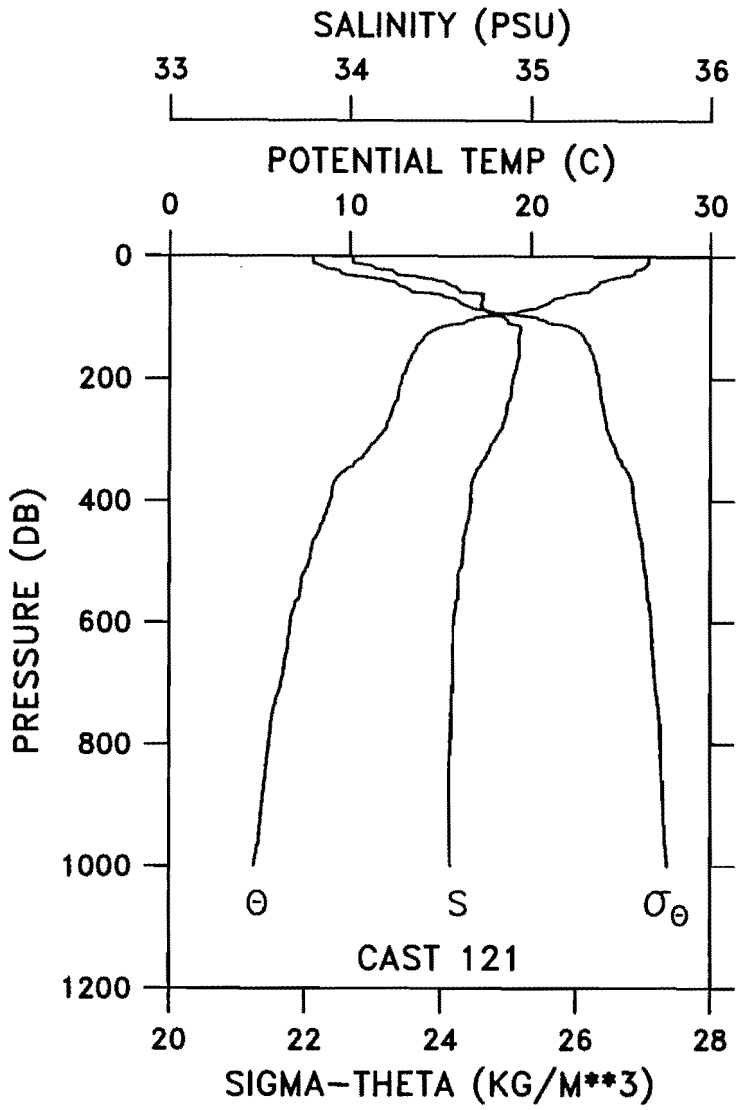
CAST GP1-97-KA-0101 DATE 21 FEB 97 TIME 1851 GMT
LAT 01 00.1S LONG 110 02.4W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 086 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 25.5 WET 25.0 DEPTH 3921 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.009	34.786	23.179	0.000
10	24.794	34.785	23.243	0.047
20	24.726	34.820	23.290	0.093
30	24.785	34.985	23.397	0.138
40	24.614	35.124	23.554	0.182
50	23.315	35.115	23.931	0.223
60	22.230	35.083	24.218	0.262
70	21.164	35.131	24.550	0.298
80	18.515	35.262	25.346	0.328
90	16.715	35.266	25.787	0.351
100	15.662	35.219	25.994	0.372
110	14.988	35.166	26.104	0.392
120	14.204	35.070	26.199	0.411
130	13.677	35.014	26.266	0.429
140	13.054	34.961	26.352	0.447
150	12.812	34.932	26.378	0.464
160	12.702	34.919	26.390	0.480
170	12.479	34.896	26.417	0.497
180	12.454	34.892	26.418	0.514
190	12.436	34.890	26.420	0.530
200	12.390	34.886	26.426	0.547
250	12.319	34.878	26.433	0.629
300	11.826	34.846	26.503	0.710
350	10.628	34.775	26.667	0.787
400	9.851	34.728	26.766	0.859
450	8.803	34.670	26.892	0.924
500	8.078	34.631	26.973	0.984
501	8.079	34.631	26.972	0.985



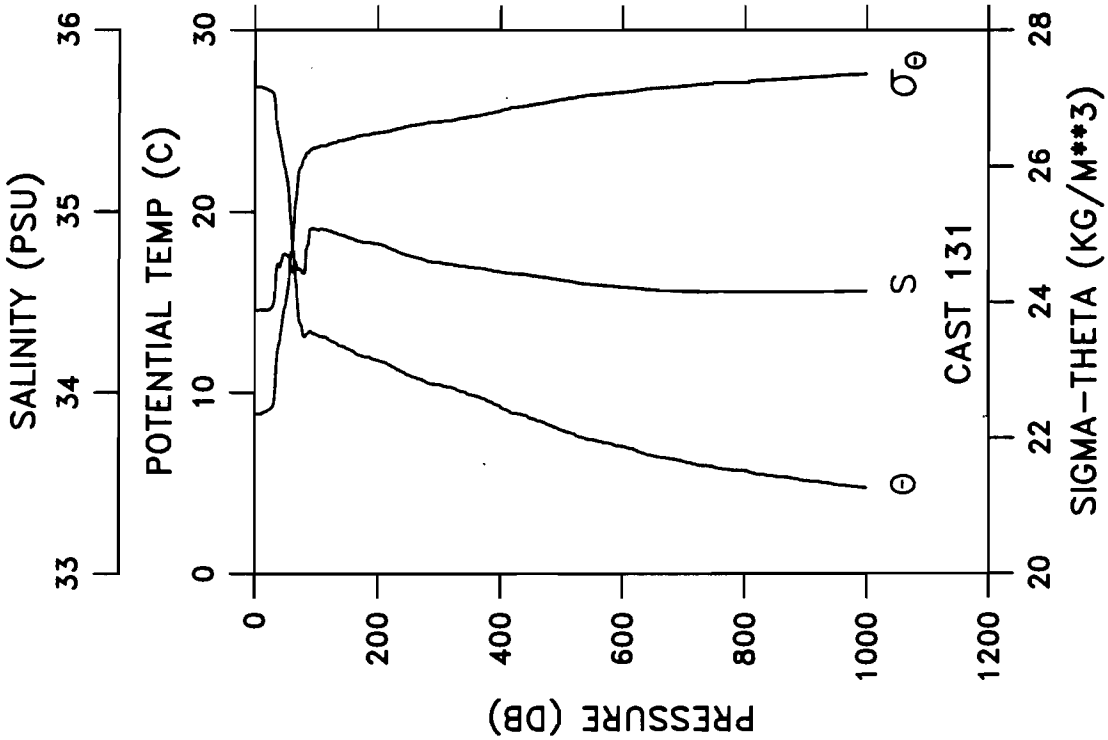
CAST GP1-97-KA-0111 DATE 22 FEB 97 TIME 0928 GMT
LAT 00 00.1S LONG 110 04.3W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 107 T SPD 10 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 24.9 WET 23.5 DEPTH 3750 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.861	34.459	22.671	0.000
10	25.859	34.456	22.669	0.052
20	24.498	34.691	23.261	0.101
30	24.046	34.815	23.489	0.146
40	23.487	34.925	23.737	0.189
50	23.105	35.041	23.936	0.229
60	22.772	35.160	24.122	0.269
70	22.438	35.397	24.397	0.306
80	20.561	35.470	24.972	0.339
90	18.772	35.450	25.424	0.367
100	16.183	35.215	25.872	0.390
110	14.843	35.077	26.067	0.410
120	14.305	35.051	26.163	0.430
130	13.862	35.046	26.252	0.448
140	13.420	34.997	26.306	0.466
150	13.189	34.967	26.330	0.483
160	13.076	34.947	26.338	0.500
170	12.991	34.930	26.341	0.517
180	12.929	34.922	26.348	0.535
190	12.826	34.913	26.361	0.552
200	12.666	34.901	26.383	0.569
250	12.283	34.876	26.439	0.652
300	11.505	34.825	26.547	0.733
350	10.500	34.750	26.670	0.808
400	9.817	34.718	26.763	0.878
450	8.468	34.654	26.931	0.941
500	8.068	34.633	26.976	1.001
550	7.143	34.591	27.077	1.057
600	6.798	34.583	27.118	1.109
650	6.405	34.569	27.159	1.160
700	5.949	34.559	27.211	1.209
750	5.749	34.559	27.236	1.256
800	5.323	34.554	27.284	1.301
900	4.939	34.551	27.327	1.388
1000	4.479	34.557	27.383	1.470
1500	2.756	34.612	27.597	1.809
2000	2.081	34.645	27.681	2.085
2500	1.685	34.666	27.728	2.329
3000	1.442	34.676	27.754	2.560
3500	1.246	34.688	27.778	2.782
3503	1.244	34.688	27.778	2.783



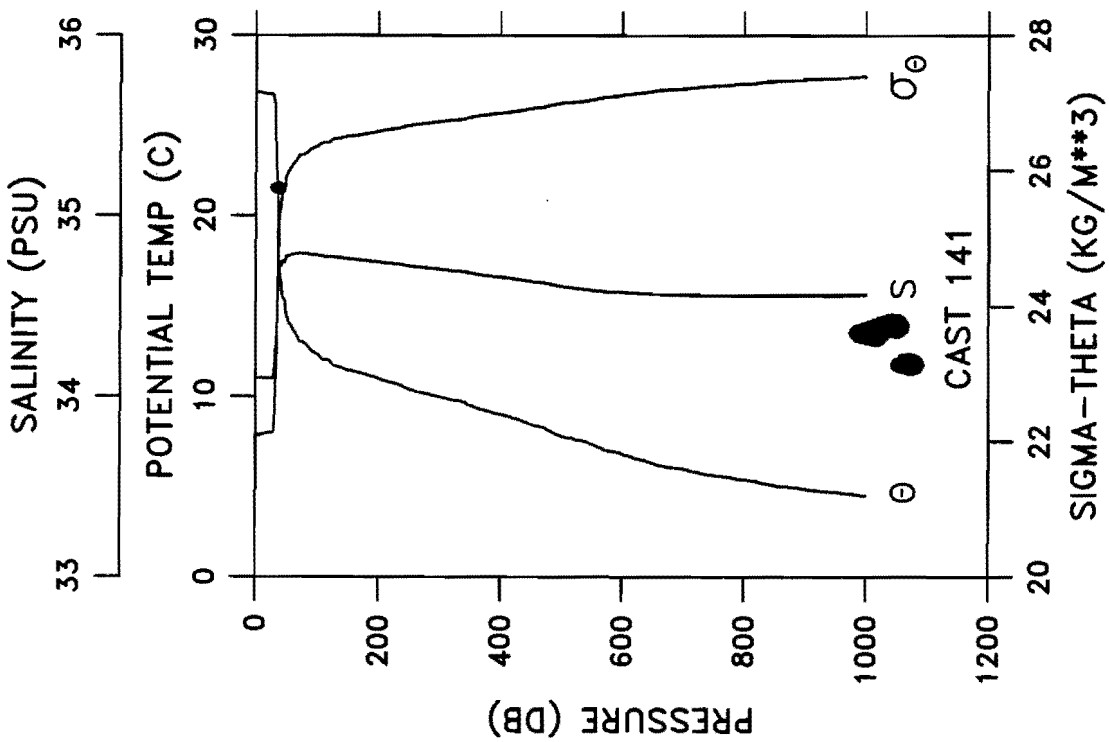
CAST GP1-97-KA-0121 DATE 24 FEB 97 TIME 1815 GMT
LAT 01 59.8N LONG 110 43.8W WEATHER 1 SEA STATE 4
BAROMETER 10 WIND DIR 135 T SPD 13 KT VISIBILITY 7
CLOUD 8 AMOUNT 6 DRY 25.3 WET 23.9 DEPTH 3750 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.531	34.018	22.128	0.000
10	26.529	34.015	22.127	0.057
20	26.187	34.141	22.330	0.113
30	25.636	34.264	22.592	0.166
40	24.161	34.481	23.203	0.216
50	23.535	34.589	23.469	0.261
60	22.544	34.707	23.844	0.304
70	21.248	34.734	24.225	0.343
80	20.665	34.721	24.374	0.380
90	19.346	34.759	24.749	0.414
100	16.898	34.857	25.430	0.443
110	15.970	34.880	25.663	0.468
120	14.609	34.945	26.016	0.489
130	14.105	34.934	26.115	0.509
140	13.896	34.932	26.157	0.528
150	13.645	34.935	26.211	0.546
160	13.418	34.936	26.259	0.565
170	13.252	34.926	26.286	0.583
180	13.147	34.922	26.303	0.600
190	13.029	34.911	26.319	0.618
200	12.876	34.901	26.342	0.635
250	12.368	34.868	26.416	0.720
300	11.473	34.799	26.533	0.802
350	9.770	34.701	26.758	0.875
400	8.928	34.670	26.872	0.939
450	8.299	34.638	26.945	1.001
500	7.755	34.621	27.013	1.058
550	7.246	34.596	27.067	1.113
600	6.705	34.574	27.124	1.165
650	6.517	34.572	27.147	1.216
700	6.182	34.567	27.187	1.266
750	5.721	34.560	27.240	1.313
800	5.515	34.555	27.262	1.359
900	5.131	34.550	27.303	1.448
1000	4.691	34.556	27.359	1.533
1002	4.687	34.555	27.359	1.535



CAST GP1-97-KA-0131 DATE 25 FEB 97 TIME 2251 GMT
LAT 05 01.1N LONG 110 00.0W WEATHER 1 SEA STATE 4
BAROMETER 07 WIND DIR 048 T SPD 15 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 27.8 WET 26.0 DEPTH 3901 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.865	34.456	22.353	0.000
10	26.869	34.458	22.353	0.055
20	26.715	34.456	22.401	0.109
30	26.517	34.487	22.486	0.163
40	24.033	34.695	23.403	0.212
50	22.273	34.765	23.964	0.254
60	18.894	34.675	24.801	0.290
70	14.640	34.684	25.807	0.317
80	13.083	34.662	26.115	0.337
90	13.400	34.901	26.236	0.355
100	13.217	34.902	26.274	0.373
110	13.098	34.902	26.298	0.391
120	12.945	34.894	26.322	0.408
130	12.781	34.884	26.348	0.425
140	12.581	34.871	26.377	0.442
150	12.442	34.861	26.396	0.459
160	12.291	34.850	26.417	0.475
170	12.083	34.837	26.447	0.492
180	12.000	34.831	26.458	0.508
190	11.881	34.828	26.478	0.524
200	11.810	34.823	26.488	0.540
250	10.982	34.759	26.592	0.617
300	10.465	34.721	26.654	0.690
350	9.907	34.694	26.729	0.761
400	9.254	34.668	26.818	0.829
450	8.601	34.649	26.907	0.892
500	7.954	34.623	26.985	0.952
550	7.386	34.598	27.048	1.008
600	7.026	34.584	27.088	1.062
650	6.492	34.569	27.148	1.114
700	6.182	34.560	27.182	1.164
750	5.865	34.561	27.223	1.212
800	5.678	34.557	27.244	1.258
900	5.112	34.557	27.311	1.348
1000	4.693	34.561	27.363	1.432
1000	4.693	34.561	27.363	1.432



CAST GP1-97-KA-0141 DATE 26 FEB 97 TIME 1844 GMT
LAT 08 01.5N LONG 110 10.2W WEATHER 1 SEA STATE 4
BAROMETER 10 WIND DIR 044 T SPD 14 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 27.7 WET 24.7 DEPTH 4266 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.825	34.104	22.101	0.000
10	26.793	34.102	22.109	0.057
20	26.727	34.101	22.129	0.114
30	26.393	34.151	22.272	0.171
40	16.457	34.724	25.431	0.211
50	14.445	34.776	25.920	0.234
60	13.731	34.787	26.079	0.254
70	13.111	34.793	26.211	0.273
80	12.920	34.791	26.248	0.291
90	12.536	34.786	26.319	0.308
100	12.340	34.783	26.355	0.325
110	12.038	34.776	26.409	0.342
120	11.957	34.774	26.423	0.358
130	11.684	34.770	26.471	0.374
140	11.604	34.768	26.484	0.390
150	11.455	34.762	26.507	0.405
160	11.390	34.759	26.517	0.421
170	11.302	34.756	26.531	0.436
180	11.222	34.753	26.543	0.452
190	11.108	34.747	26.560	0.467
200	11.005	34.744	26.576	0.482
250	10.399	34.722	26.666	0.555
300	9.997	34.705	26.723	0.625
350	9.520	34.685	26.787	0.693
400	9.028	34.663	26.850	0.758
450	8.469	34.639	26.919	0.820
500	7.802	34.611	26.998	0.879
550	7.362	34.589	27.044	0.936
600	6.807	34.579	27.114	0.989
650	6.314	34.569	27.172	1.040
700	5.992	34.564	27.209	1.088
750	5.633	34.560	27.251	1.134
800	5.380	34.559	27.281	1.179
900	4.867	34.561	27.342	1.265
1000	4.480	34.564	27.388	1.346
1000	4.480	34.564	27.388	1.346

CAST GP1-97-KA-0011 LAT 07 59.6N LONG 94 56.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.950	34.084	26.948	22.041
200.	11.823	34.784	11.797	26.462
601.	7.217	34.589	7.159	27.073
802.	5.714	34.564	5.644	27.251
1000.	4.658	34.568	4.577	27.378
1000.	4.657	34.567	4.576	27.378

CAST GP1-97-KA-0021 LAT 04 58.8N LONG 94 56.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.079	34.075	27.076	21.996
199.	12.141	34.817	12.115	26.427
601.	7.185	34.601	7.127	27.087
800.	5.889	34.572	5.818	27.236
1001.	4.741	34.563	4.659	27.368
1000.	4.742	34.562	4.660	27.368

CAST GP1-97-KA-0031 LAT 00 08.1N LONG 95 16.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
8.	26.817	33.807	26.815	21.882
601.	7.448	34.600	7.388	27.053
700.	6.581	34.580	6.516	27.157
799.	5.938	34.566	5.866	27.230
999.	4.656	34.561	4.576	27.377
1498.	3.114	34.605	3.005	27.570
2000.	2.220	34.647	2.080	27.682
2498.	1.901	34.665	1.723	27.725
2997.	1.747	34.678	1.525	27.749
2999.	1.747	34.677	1.525	27.749

CAST GP1-97-KA-0041 LAT 01 56.3S LONG 95 01.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	24.701	34.920	24.698	23.375
201.	13.046	34.919	13.018	26.329
602.	7.353	34.594	7.294	27.059
800.	5.967	34.557	5.895	27.216
1005.	5.042	34.556	4.958	27.328
1004.	5.044	34.556	4.960	27.327

CAST GP1-97-KA-0051 LAT 05 02.0S LONG 95 05.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	25.677	34.668	25.675	22.883
202.	12.747	34.907	12.720	26.378
601.	7.259	34.598	7.200	27.074
801.	5.691	34.554	5.621	27.247
1000.	4.685	34.559	4.604	27.367
1000.	4.678	34.556	4.597	27.367

CAST GP1-97-KA-0061 LAT 07 50.5S LONG 95 06.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.106	35.286	26.103	23.218
202.	12.212	34.888	12.185	26.469
601.	7.103	34.586	7.045	27.087
801.	5.459	34.542	5.391	27.266
1000.	4.531	34.551	4.451	27.379
1001.	4.525	34.549	4.445	27.380

CAST GP1-97-KA-0071 LAT 08 03.4S LONG 109 53.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	12.584	34.915	12.557	26.417
598.	7.012	34.586	6.955	27.100
780.	5.671	34.547	5.603	27.243
1500.	2.994	34.597	2.887	27.574
2000.	2.264	34.642	2.123	27.674
2500.	1.881	34.669	1.703	27.729
3001.	1.726	34.682	1.504	27.753
3000.	1.726	34.682	1.504	27.753

CAST GP1-97-KA-0081 LAT 04 59.6S LONG 110 01.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.676	34.953	25.674	23.101
201.	12.656	34.900	12.629	26.391
301.	11.497	34.836	11.459	26.566
402.	9.982	34.750	9.935	26.764
501.	8.502	34.657	8.449	26.939
501.	8.504	34.657	8.450	26.939

CAST GP1-97-KA-0091 LAT 01 59.9S LONG 110 03.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
5.	25.878	35.098	25.877	23.146
200.	12.463	34.884	12.436	26.417
599.	6.836	34.574	6.779	27.114
798.	5.647	34.549	5.577	27.249
1004.	4.506	34.553	4.426	27.385
1003.	4.506	34.554	4.426	27.384

CAST GP1-97-KA-0101 LAT 01 00.1S LONG 110 02.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	24.801	34.785	24.799	23.240
202.	12.403	34.882	12.376	26.426
299.	11.853	34.841	11.814	26.503
402.	9.593	34.706	9.547	26.801
498.	8.131	34.631	8.080	26.972
499.	8.131	34.631	8.079	26.972

CAST GP1-97-KA-0111 LAT 00 00.1S LONG 110 04.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	25.813	34.462	25.810	22.690
400.	10.116	34.722	10.068	26.726
799.	5.381	34.554	5.313	27.285
1001.	4.534	34.561	4.454	27.387
1501.	2.859	34.614	2.753	27.598
1999.	2.212	34.648	2.073	27.682
2500.	1.854	34.667	1.676	27.729
2999.	1.662	34.676	1.442	27.754
3501.	1.513	34.688	1.246	27.777
3501.	1.512	34.688	1.245	27.778

CAST GP1-97-KA-0121 LAT 01 59.8N LONG 110 43.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.444	34.056	26.441	22.205
101.	16.746	34.841	16.729	25.462
201.	12.908	34.896	12.880	26.340
501.	7.812	34.618	7.761	27.011
602.	6.760	34.571	6.704	27.123
702.	6.267	34.565	6.203	27.184
802.	5.586	34.553	5.516	27.261
900.	5.213	34.555	5.137	27.302
999.	4.776	34.556	4.694	27.358
1001.	4.772	34.556	4.690	27.358

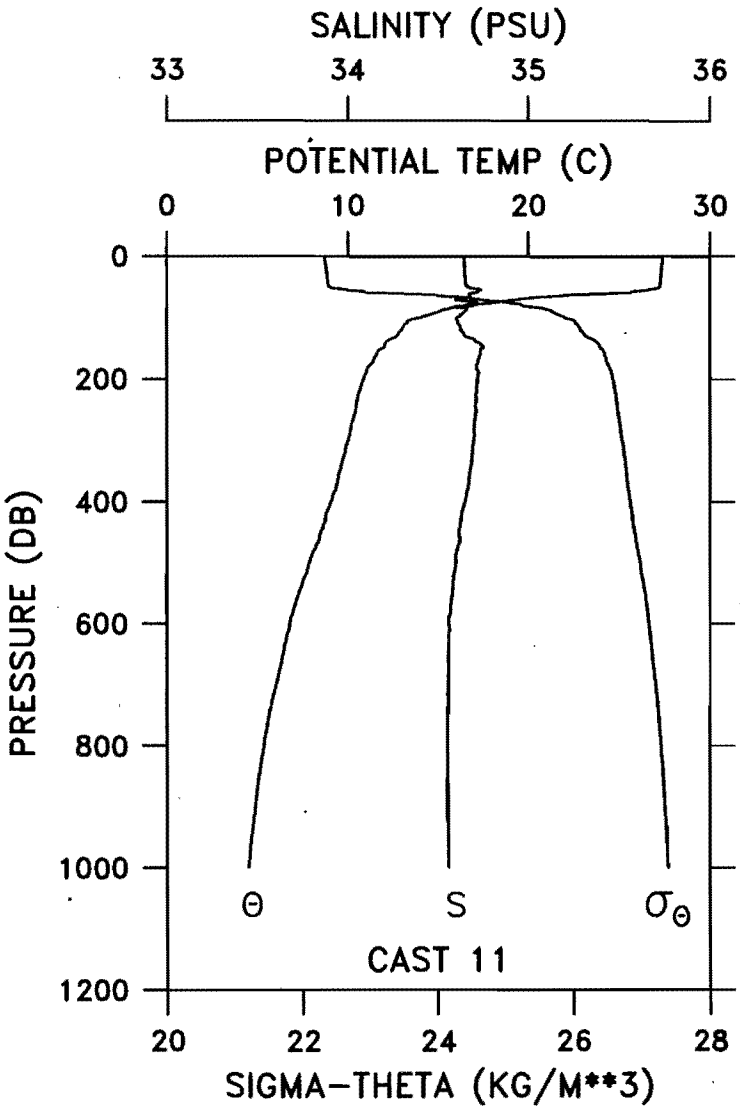
CAST GP1-97-KA-0131 LAT 05 01.1N LONG 110 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.875	34.462	26.872	22.353
200.	11.851	34.820	11.825	26.485
607.	6.990	34.581	6.932	27.099
797.	5.759	34.558	5.689	27.242
994.	4.801	34.562	4.720	27.359
995.	4.800	34.562	4.718	27.359

CAST GP1-97-KA-0141 LAT 08 01.5N LONG 110 10.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	26.830	34.104	26.828	22.098
202.	10.918	34.734	10.894	26.590
601.	6.789	34.574	6.733	27.121
802.	5.444	34.557	5.376	27.281
999.	4.564	34.563	4.484	27.387
999.	4.564	34.562	4.484	27.387

GP2-97-KA
March 25–April 23, 1997
CTD and Hydrographic Data Summary

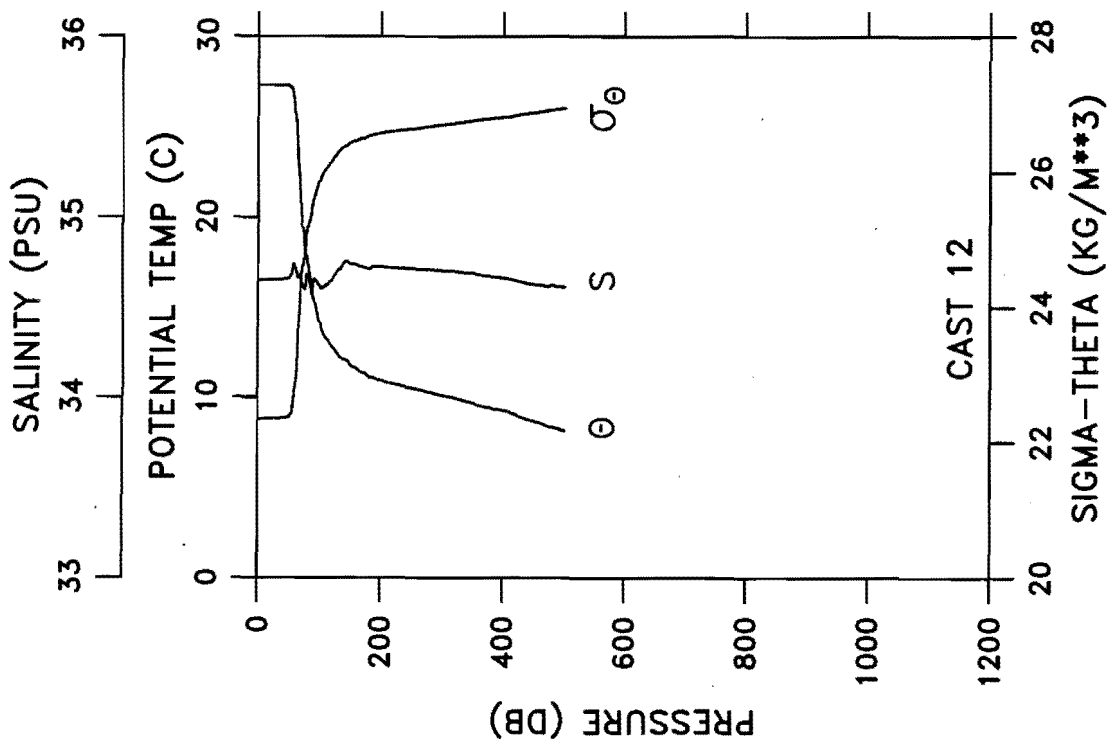


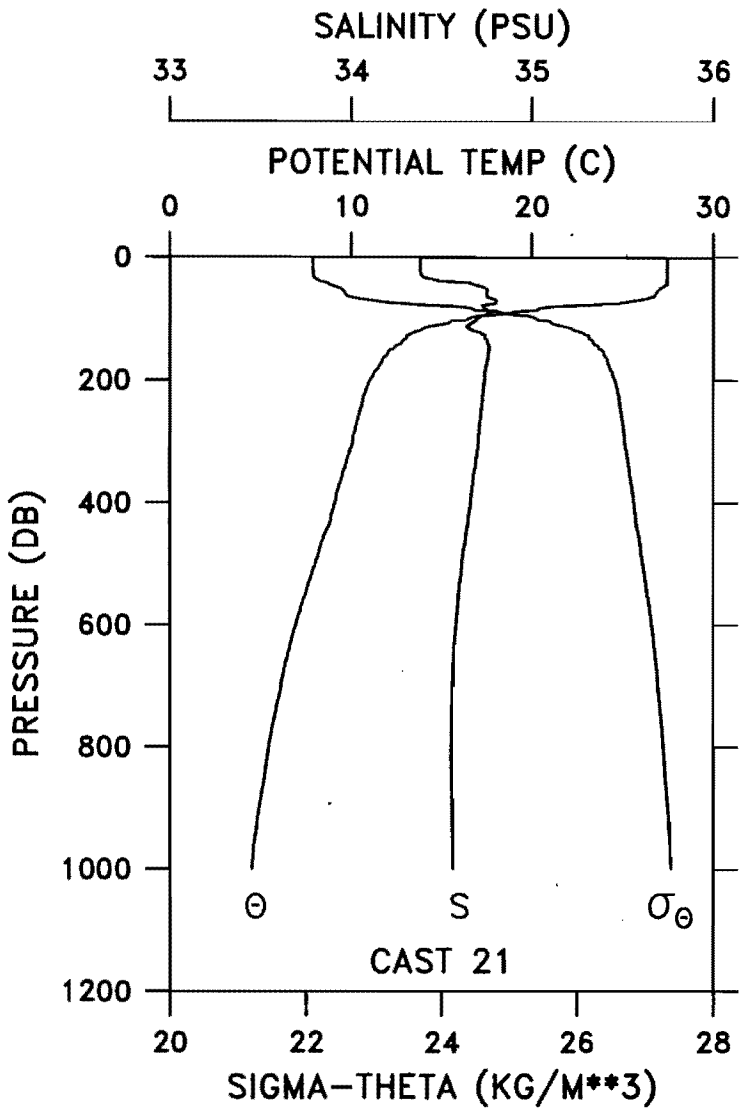
CAST GP2-97-KA-0011 DATE 02 APR 97 TIME 0020 GMT
LAT 08 06.0N LONG 124 59.7W WEATHER 1 SEA STATE 6
BAROMETER 08 WIND DIR 123 T SPD 14 KT VISIBILITY 7
CLOUD 8 AMOUNT 6 DRY 26.4 WET 27.3 DEPTH 4507 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.387	34.648	22.331	0.000
10	27.371	34.647	22.335	0.055
20	27.325	34.648	22.351	0.110
30	27.295	34.651	22.362	0.165
40	27.268	34.653	22.373	0.219
50	27.201	34.668	22.406	0.274
60	24.648	34.682	23.209	0.326
70	19.365	34.600	24.623	0.364
80	16.963	34.644	25.251	0.394
90	15.058	34.648	25.689	0.418
100	14.040	34.603	25.873	0.441
110	13.234	34.616	26.049	0.461
120	13.025	34.627	26.099	0.480
130	12.694	34.655	26.187	0.499
140	12.117	34.726	26.354	0.517
150	11.892	34.741	26.409	0.534
160	11.606	34.733	26.457	0.550
170	11.427	34.723	26.482	0.566
180	11.123	34.713	26.530	0.582
190	11.015	34.727	26.561	0.597
200	10.876	34.719	26.579	0.612
250	10.454	34.712	26.649	0.685
300	10.014	34.699	26.715	0.756
350	9.559	34.678	26.775	0.824
400	9.064	34.650	26.834	0.890
450	8.490	34.618	26.900	0.953
500	7.871	34.601	26.980	1.013
550	7.279	34.583	27.051	1.069
600	6.778	34.562	27.105	1.123
650	6.399	34.559	27.153	1.174
700	6.013	34.560	27.203	1.223
750	5.627	34.556	27.248	1.270
800	5.350	34.555	27.281	1.315
900	4.872	34.555	27.337	1.400
1000	4.493	34.561	27.385	1.482
1007	4.479	34.562	27.387	1.487

CAST GP2-97-KA-0012 DATE 02 APR 97 TIME 0422 GMT
LAT 08 04.7N LONG 124 59.6W WEATHER 1 SEA STATE 5
BAROMETER 12 WIND DIR 080 T SPD 04 KT VISIBILITY 7
CLOUD 8 AMOUNT 6 DRY 27.5 WET 24.8 DEPTH 3775 M

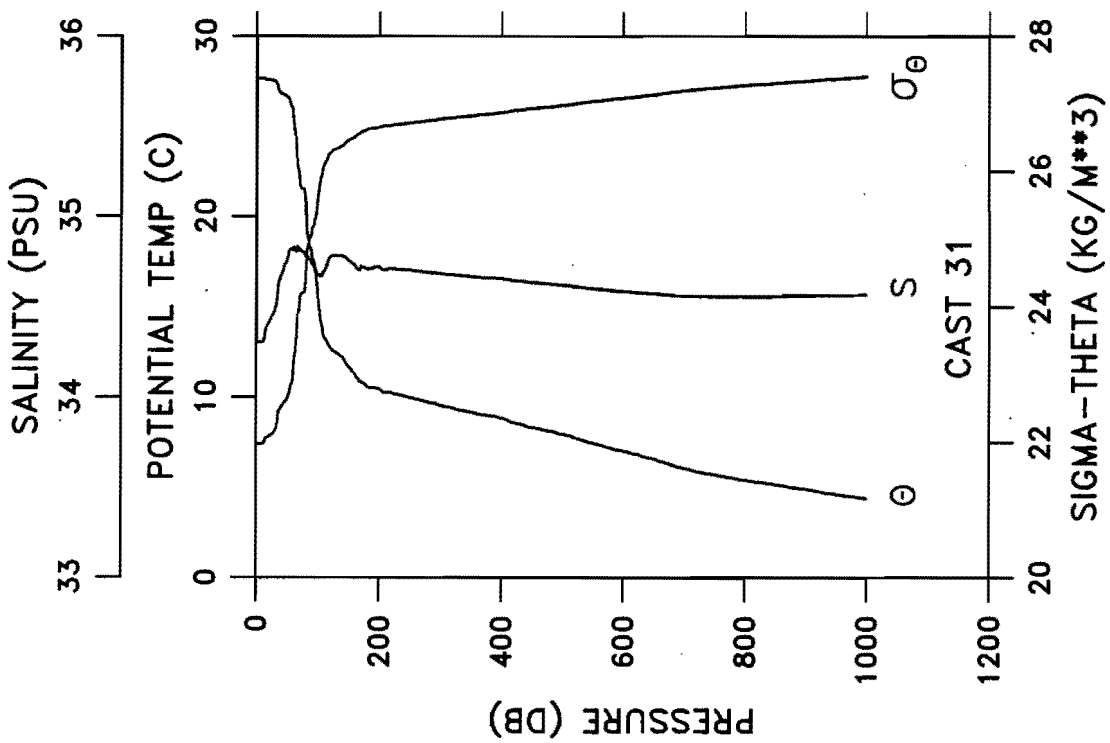
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.343	34.649	22.346	0.000
10	27.344	34.652	22.348	0.055
20	27.331	34.653	22.353	0.110
30	27.322	34.654	22.356	0.164
40	27.309	34.656	22.362	0.219
50	27.286	34.660	22.372	0.274
60	25.863	34.719	22.866	0.328
70	20.589	34.672	24.357	0.372
80	17.675	34.683	25.110	0.404
90	15.503	34.632	25.578	0.431
100	14.169	34.618	25.857	0.453
110	13.295	34.616	26.037	0.474
120	12.824	34.646	26.155	0.493
130	12.373	34.703	26.287	0.512
140	12.086	34.745	26.375	0.529
150	11.766	34.741	26.433	0.545
160	11.600	34.736	26.460	0.561
170	11.353	34.723	26.496	0.577
180	11.129	34.712	26.528	0.593
190	11.044	34.724	26.553	0.608
200	10.930	34.725	26.574	0.623
250	10.519	34.716	26.641	0.697
300	10.106	34.703	26.702	0.768
350	9.704	34.692	26.762	0.837
400	9.278	34.663	26.809	0.904
450	8.691	34.629	26.877	0.968
500	8.160	34.614	26.947	1.029
502	8.130	34.612	26.950	1.031





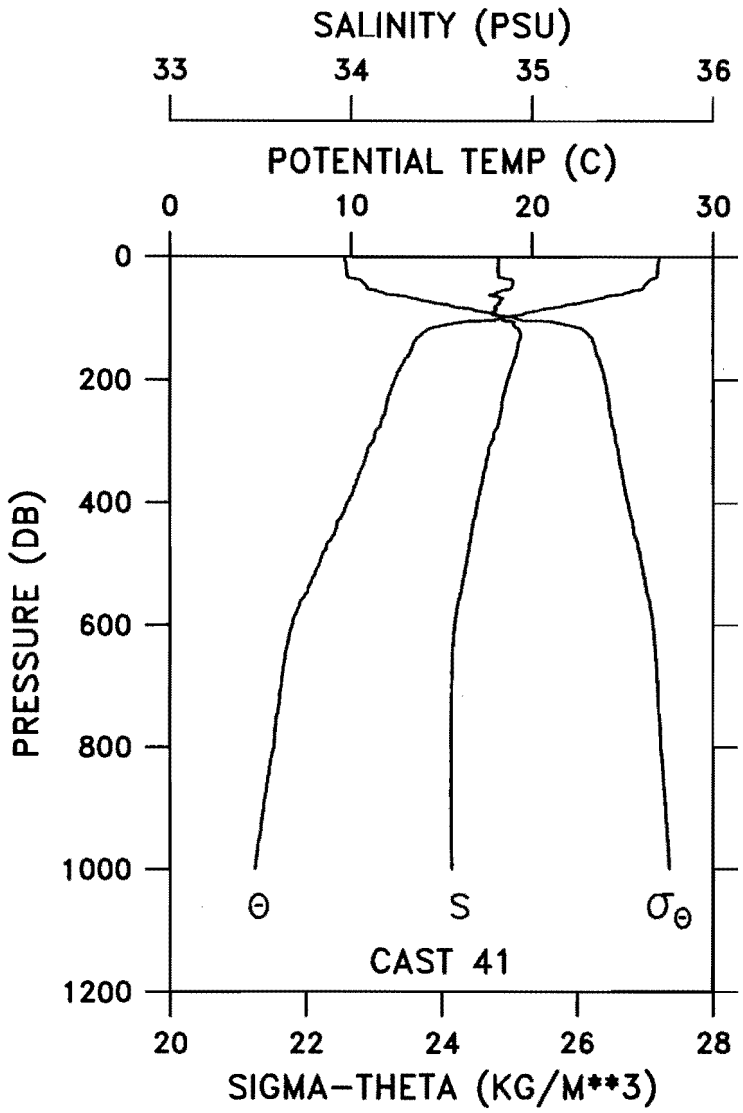
CAST GP2-97-KA-0021 DATE 02 APR 97 TIME 1834 GMT
LAT 05 59.8N LONG 124 53.7W WEATHER 1 SEA STATE 4
BAROMETER 12 WIND DIR 175 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.2 WET 24.0 DEPTH 4997 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.481	34.383	22.101	0.000
10	27.468	34.382	22.105	0.057
20	27.467	34.383	22.106	0.114
30	27.473	34.393	22.111	0.172
40	27.459	34.576	22.253	0.228
50	27.078	34.743	22.502	0.283
60	26.819	34.751	22.590	0.336
70	25.651	34.804	22.995	0.388
80	21.190	34.735	24.242	0.432
90	18.840	34.764	24.882	0.466
100	16.490	34.695	25.401	0.494
110	14.886	34.648	25.726	0.518
120	13.650	34.687	26.018	0.539
130	13.072	34.740	26.178	0.558
140	12.766	34.755	26.250	0.577
150	12.203	34.764	26.367	0.594
160	11.953	34.757	26.410	0.611
170	11.696	34.752	26.454	0.627
180	11.483	34.745	26.489	0.643
190	11.242	34.739	26.529	0.658
200	11.038	34.738	26.565	0.674
250	10.485	34.720	26.650	0.747
300	10.087	34.704	26.706	0.818
350	9.546	34.679	26.778	0.886
400	9.097	34.661	26.838	0.952
450	8.567	34.637	26.902	1.015
500	8.011	34.615	26.970	1.075
550	7.474	34.594	27.032	1.132
600	6.931	34.581	27.098	1.186
650	6.469	34.568	27.151	1.237
700	6.114	34.561	27.191	1.286
750	5.770	34.558	27.232	1.334
800	5.450	34.556	27.270	1.380
900	4.908	34.560	27.337	1.467
1000	4.514	34.564	27.385	1.548
1004	4.504	34.564	27.386	1.551



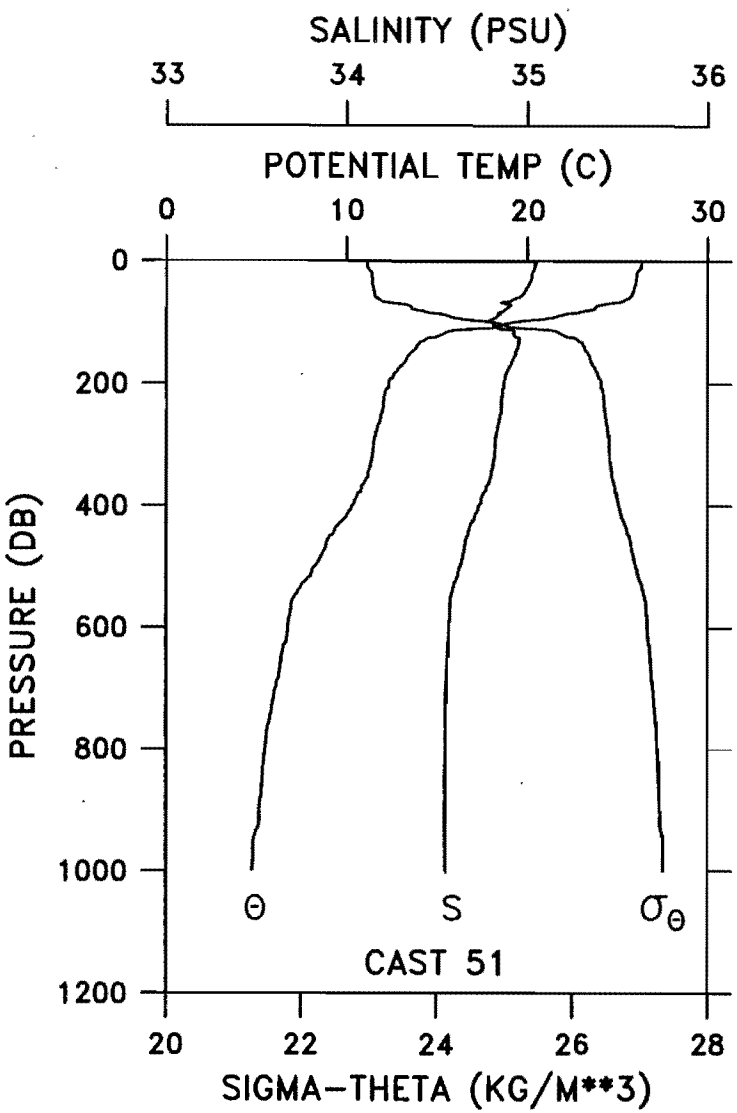
CAST GP2-97-KA-0031 DATE 03 APR 97 TIME 0631 GMT
LAT 05 07.7N LONG 124 57.0W WEATHER 1 SEA STATE 4
BAROMETER 12 WIND DIR 170 T SPD 07 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.0 WET 25.5 DEPTH 5010 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.667	34.304	21.982	0.000
10	27.666	34.306	21.983	0.058
20	27.588	34.408	22.085	0.116
30	27.479	34.481	22.176	0.173
40	26.841	34.669	22.521	0.228
50	26.665	34.756	22.642	0.281
60	25.366	34.827	23.100	0.331
70	22.108	34.821	24.053	0.375
80	20.707	34.779	24.406	0.412
90	17.969	34.738	25.080	0.443
100	15.545	34.677	25.603	0.470
110	13.325	34.691	26.088	0.491
120	12.740	34.773	26.270	0.510
130	12.449	34.780	26.332	0.527
140	12.205	34.781	26.380	0.544
150	11.657	34.756	26.465	0.560
160	11.295	34.730	26.512	0.576
170	10.881	34.722	26.581	0.591
180	10.612	34.708	26.618	0.606
190	10.542	34.716	26.637	0.620
200	10.470	34.720	26.652	0.635
250	10.005	34.702	26.719	0.704
300	9.573	34.683	26.777	0.772
350	9.192	34.667	26.827	0.837
400	8.859	34.655	26.871	0.901
450	8.347	34.634	26.934	0.962
500	7.968	34.619	26.980	1.021
550	7.474	34.600	27.037	1.078
600	7.042	34.585	27.086	1.132
650	6.593	34.573	27.138	1.184
700	6.067	34.560	27.197	1.234
750	5.726	34.556	27.237	1.281
800	5.406	34.556	27.275	1.327
900	4.915	34.561	27.337	1.413
1000	4.388	34.567	27.401	1.493
1003	4.386	34.567	27.401	1.496



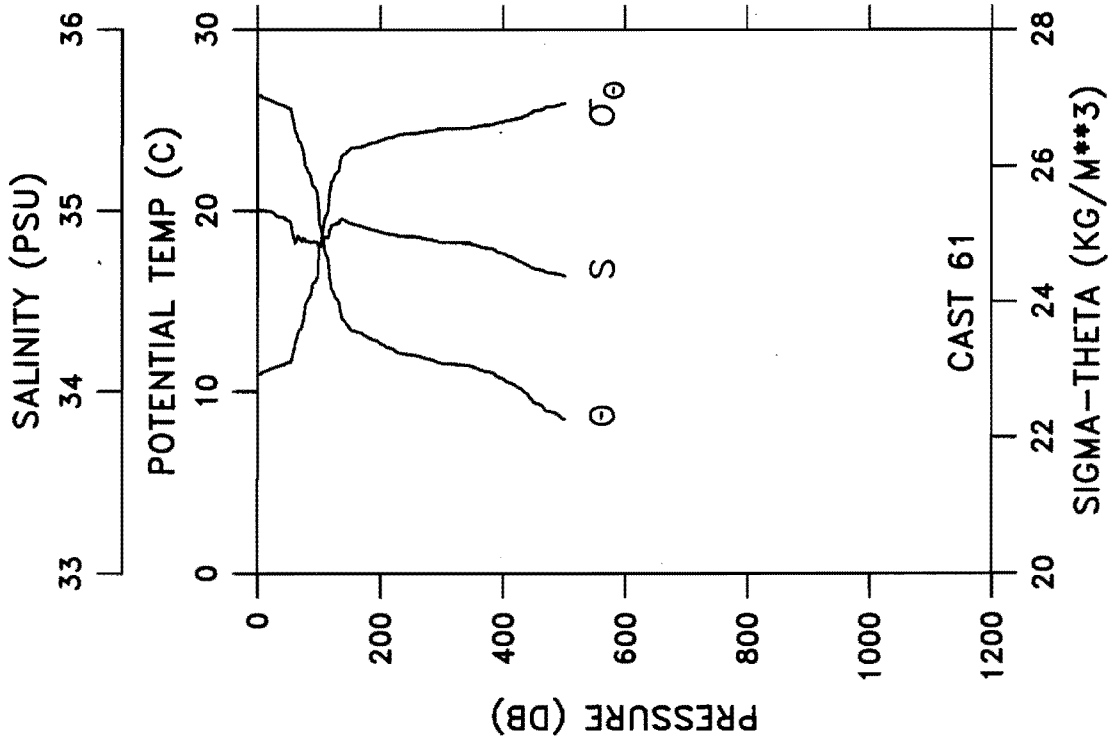
CAST GP2-97-KA-0041 DATE 03 APR 97 TIME 2013 GMT
LAT 03 00.2N LONG 124 59.5W WEATHER 1 SEA STATE 4
BAROMETER 11 WIND DIR 172 T SPD 05 KT VISIBILITY 7
CLOUD 8 AMOUNT 5 DRY 28.2 WET 24.9 DEPTH 5089 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.037	34.817	22.570	0.000
10	26.966	34.812	22.589	0.053
20	26.940	34.813	22.598	0.105
30	26.918	34.814	22.606	0.158
40	26.411	34.895	22.827	0.209
50	26.156	34.886	22.901	0.259
60	25.060	34.794	23.169	0.308
70	23.400	34.825	23.687	0.352
80	21.732	34.792	24.136	0.392
90	19.818	34.780	24.643	0.428
100	18.186	34.838	25.103	0.459
110	15.337	34.896	25.819	0.484
120	14.155	34.928	26.099	0.505
130	13.765	34.932	26.185	0.523
140	13.447	34.923	26.243	0.542
150	13.316	34.918	26.266	0.560
160	13.165	34.912	26.292	0.577
170	12.918	34.899	26.331	0.595
180	12.716	34.885	26.361	0.612
190	12.523	34.874	26.390	0.629
200	12.396	34.864	26.408	0.646
250	11.877	34.828	26.480	0.727
300	11.211	34.780	26.566	0.806
350	10.503	34.734	26.657	0.880
400	9.798	34.696	26.749	0.952
450	9.127	34.665	26.836	1.018
500	8.255	34.636	26.950	1.080
550	7.471	34.604	27.040	1.137
600	6.730	34.574	27.120	1.191
650	6.362	34.561	27.159	1.241
700	6.143	34.557	27.184	1.290
750	5.878	34.554	27.216	1.339
800	5.741	34.553	27.232	1.386
900	5.162	34.554	27.303	1.476
1000	4.689	34.558	27.360	1.561
1002	4.678	34.558	27.361	1.562



CAST GP2-97-KA-0051 DATE 04 APR 97 TIME 0916 GMT
LAT 02 00.5N LONG 125 01.5W WEATHER 2 SEA STATE 4
BAROMETER 10 WIND DIR 259 T SPD 01 KT VISIBILITY 7
CLOUD 6 AMOUNT 5 DRY 24.7 WET 24.5 DEPTH 4669 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.311	35.038	22.966	0.000
10	26.294	35.040	22.973	0.049
20	26.059	35.025	23.036	0.097
30	26.019	35.019	23.044	0.146
40	25.941	35.002	23.055	0.194
50	25.842	34.984	23.072	0.242
60	25.616	34.943	23.112	0.290
70	24.236	34.894	23.493	0.337
80	23.376	34.870	23.728	0.380
90	21.671	34.829	24.181	0.419
100	19.153	34.796	24.827	0.454
110	17.357	34.845	25.311	0.484
120	15.280	34.924	25.852	0.507
130	14.275	34.951	26.092	0.528
140	13.870	34.944	26.172	0.547
150	13.550	34.933	26.230	0.565
160	13.320	34.918	26.265	0.583
170	13.083	34.904	26.302	0.601
180	12.784	34.887	26.349	0.618
190	12.555	34.875	26.385	0.635
200	12.335	34.869	26.424	0.652
250	11.929	34.850	26.487	0.733
300	11.500	34.822	26.546	0.812
350	11.198	34.800	26.585	0.889
400	10.335	34.735	26.688	0.963
450	9.081	34.667	26.845	1.032
500	8.271	34.629	26.942	1.094
550	7.133	34.581	27.070	1.151
600	6.782	34.571	27.111	1.204
650	6.400	34.563	27.156	1.255
700	6.088	34.555	27.190	1.304
750	5.770	34.551	27.227	1.352
800	5.524	34.552	27.258	1.398
900	5.203	34.548	27.293	1.488
1000	4.774	34.552	27.346	1.574
1500	3.141	34.597	27.551	1.940
2000	2.222	34.637	27.663	2.230
2500	1.665	34.666	27.730	2.477
3000	1.463	34.674	27.751	2.709
3500	1.202	34.688	27.781	2.933
4000	1.122	34.692	27.789	3.150
4002	1.122	34.692	27.789	3.151

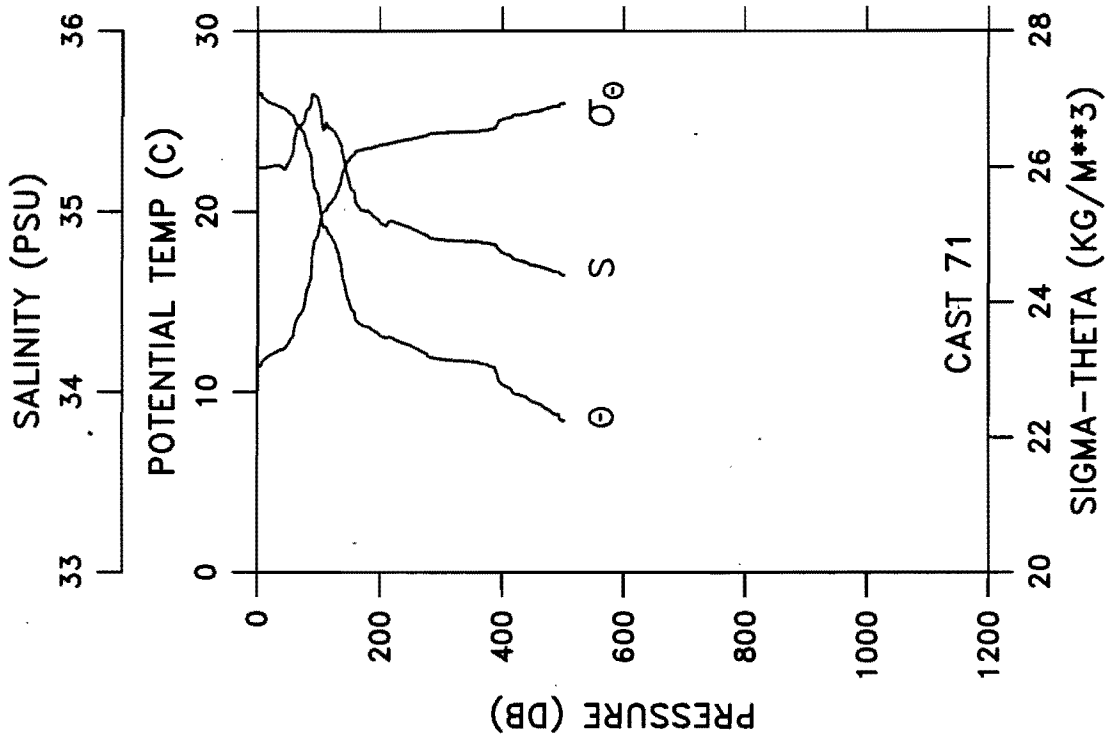


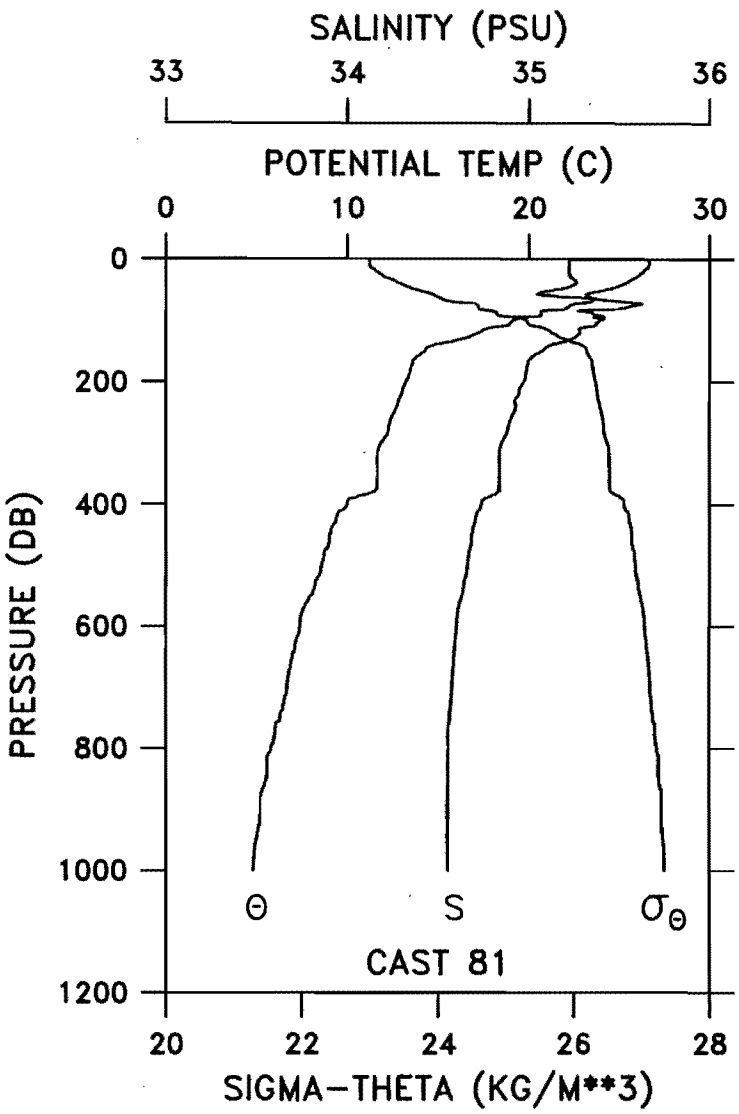
CAST GP2-97-KA-0061 DATE 04 APR 97 TIME 2204 GMT
LAT 01 57.9N LONG 125 01.5W WEATHER 1 SEA STATE 4
BAROMETER 08 WIND DIR 124 T SPD 07 KT VISIBILITY 7
CLOUD 6 AMOUNT 5 DRY 28.6 WET 27.0 DEPTH 4608 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.387	35.006	22.918	0.000
10	26.242	35.000	22.960	0.049
20	26.117	34.997	22.996	0.098
30	25.958	34.975	23.029	0.147
40	25.843	34.965	23.058	0.195
50	25.673	34.946	23.096	0.243
60	24.640	34.832	23.325	0.290
70	23.755	34.838	23.593	0.334
80	22.356	34.833	23.992	0.376
90	21.348	34.830	24.271	0.414
100	19.549	34.788	24.719	0.450
110	17.721	34.858	25.233	0.480
120	15.702	34.921	25.755	0.506
130	15.073	34.929	25.902	0.528
140	13.941	34.951	26.162	0.548
150	13.508	34.931	26.237	0.566
160	13.325	34.922	26.267	0.584
170	13.238	34.914	26.279	0.602
180	12.985	34.902	26.320	0.620
190	12.853	34.894	26.341	0.637
200	12.656	34.883	26.371	0.654
250	12.035	34.858	26.473	0.736
300	11.562	34.828	26.539	0.816
350	11.367	34.815	26.565	0.894
400	10.714	34.764	26.644	0.970
450	9.417	34.684	26.803	1.041
500	8.503	34.642	26.917	1.105
501	8.500	34.640	26.915	1.107

CAST GP2-97-KA-0071 DATE 06 APR 97 TIME 2119 GMT
LAT 00 22.5S LONG 122 32.3W WEATHER 0 SEA STATE 3
BAROMETER 09 WIND DIR 053 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 28.0 WET 26.7 DEPTH 5040 M

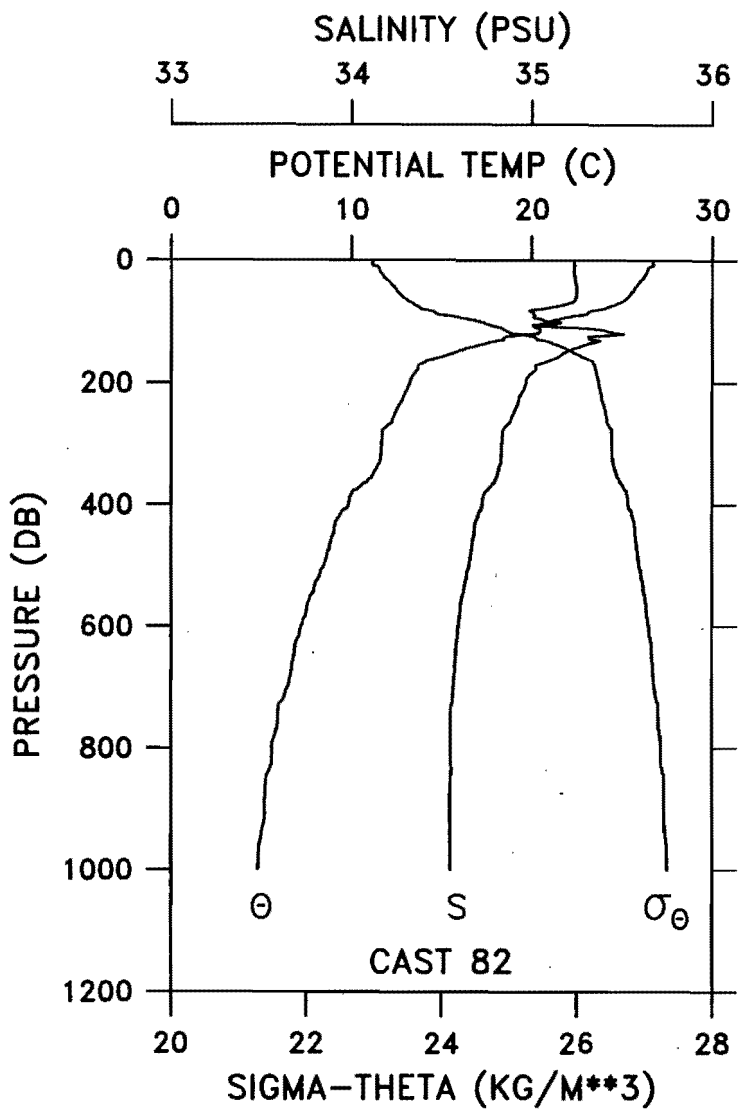
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.528	35.247	23.056	0.000
10	26.258	35.243	23.138	0.048
20	26.035	35.251	23.213	0.095
30	25.907	35.255	23.257	0.141
40	25.745	35.248	23.302	0.187
50	25.539	35.268	23.380	0.233
60	25.076	35.401	23.623	0.277
70	24.607	35.478	23.824	0.319
80	23.678	35.562	24.164	0.359
90	21.894	35.650	24.743	0.395
100	20.545	35.597	25.074	0.425
110	19.146	35.473	25.346	0.453
120	18.626	35.459	25.468	0.479
130	17.816	35.413	25.635	0.504
140	16.156	35.300	25.944	0.526
150	14.901	35.156	26.114	0.546
160	14.007	35.055	26.229	0.565
170	13.719	35.007	26.252	0.583
180	13.623	35.007	26.272	0.601
190	13.393	34.973	26.293	0.619
200	13.122	34.939	26.322	0.637
250	12.580	34.910	26.407	0.723
300	11.841	34.845	26.499	0.804
350	11.708	34.837	26.518	0.884
400	10.445	34.774	26.699	0.962
450	9.472	34.704	26.810	1.031
500	8.431	34.650	26.933	1.095
502	8.422	34.648	26.934	1.097





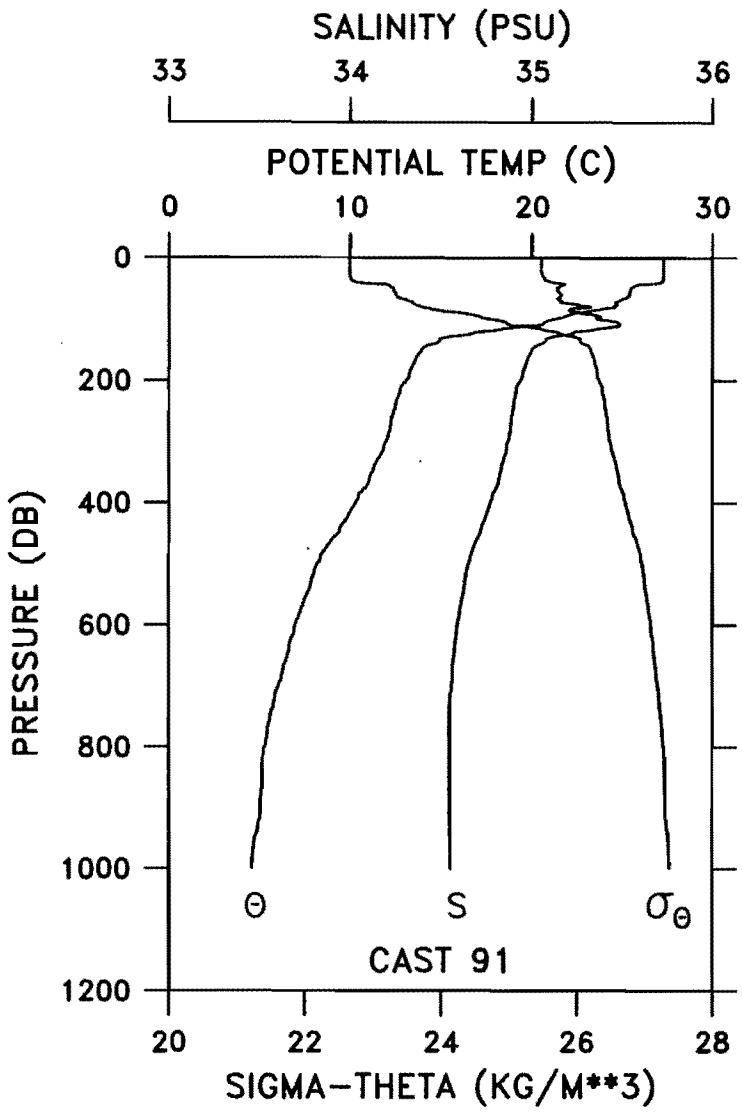
CAST GP2-97-KA-0081 DATE 07 APR 97 TIME 1119 GMT
LAT 00 10.6S LONG 124 21.9W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 064 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 25.9 WET 24.7 DEPTH 4730 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.663	35.225	22.997	0.000
10	26.657	35.224	22.997	0.049
20	26.347	35.222	23.094	0.097
30	25.927	35.234	23.235	0.144
40	25.290	35.258	23.450	0.189
50	24.222	35.141	23.684	0.233
60	23.288	35.148	23.964	0.273
70	23.360	35.559	24.254	0.312
80	22.027	35.505	24.595	0.346
90	20.678	35.370	24.865	0.378
100	19.114	35.394	25.294	0.407
110	18.176	35.326	25.479	0.434
120	17.219	35.284	25.681	0.458
130	16.225	35.228	25.872	0.481
140	14.724	35.120	26.126	0.501
150	14.228	35.068	26.192	0.520
160	13.785	35.014	26.244	0.538
170	13.592	34.994	26.268	0.556
180	13.463	34.986	26.289	0.574
190	13.358	34.979	26.304	0.592
200	13.203	34.968	26.328	0.609
250	12.558	34.914	26.415	0.695
300	11.848	34.848	26.500	0.777
350	11.657	34.836	26.527	0.856
400	10.005	34.738	26.747	0.933
450	9.037	34.684	26.865	0.998
500	8.595	34.661	26.917	1.061
550	7.983	34.630	26.986	1.121
600	7.400	34.601	27.049	1.177
650	6.967	34.587	27.098	1.232
700	6.679	34.576	27.129	1.284
750	6.288	34.564	27.171	1.335
800	5.791	34.558	27.230	1.383
900	5.215	34.551	27.294	1.474
1000	4.792	34.554	27.345	1.560
1500	3.013	34.603	27.567	1.918
2000	2.255	34.638	27.661	2.206
2500	1.706	34.665	27.726	2.456
3000	1.483	34.676	27.751	2.689
3500	1.231	34.690	27.781	2.913
4000	1.112	34.696	27.794	3.126
4001	1.113	34.696	27.794	3.127



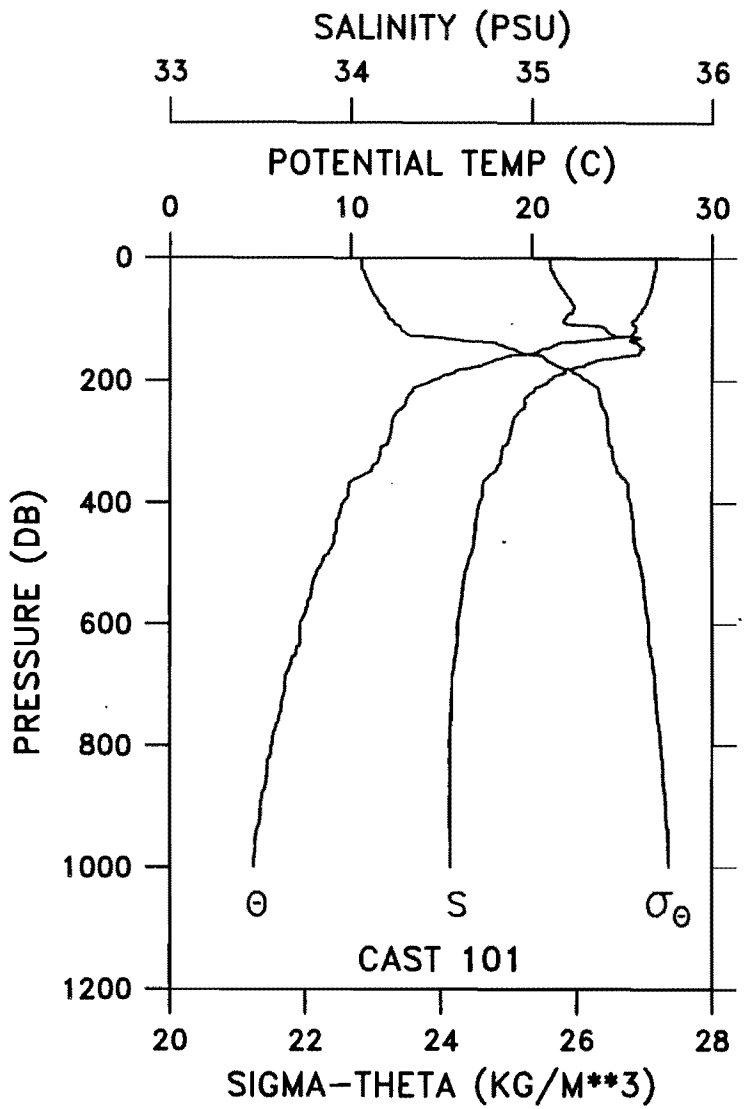
CAST GP2-97-KA-0082 DATE 08 APR 97 TIME 2241 GMT
LAT 00 10.7S LONG 124 21.4W WEATHER 0 SEA STATE 3
BAROMETER 07 WIND DIR 081 T SPD 09 KT VISIBILITY 7
CLOUD 8 AMOUNT 1 DRY 27.5 WET 24.3 DEPTH 5220 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.741	35.235	22.980	0.000
10	26.519	35.237	23.051	0.049
20	26.363	35.233	23.098	0.097
30	26.151	35.239	23.169	0.144
40	25.849	35.246	23.268	0.191
50	25.632	35.249	23.338	0.236
60	25.328	35.245	23.428	0.281
70	24.730	35.203	23.579	0.326
80	23.739	35.025	23.739	0.368
90	22.444	35.020	24.109	0.409
100	21.081	35.125	24.568	0.445
110	20.285	35.236	24.868	0.477
120	20.093	35.511	25.128	0.508
130	18.338	35.368	25.471	0.534
140	16.837	35.267	25.759	0.558
150	15.762	35.184	25.944	0.580
160	14.652	35.127	26.147	0.600
170	13.751	35.031	26.264	0.618
180	13.615	35.016	26.281	0.636
190	13.351	34.980	26.307	0.654
200	13.238	34.968	26.320	0.672
250	12.433	34.900	26.429	0.757
300	11.678	34.834	26.522	0.837
350	11.211	34.810	26.590	0.916
400	9.855	34.726	26.763	0.987
450	9.007	34.682	26.869	1.052
500	8.510	34.654	26.925	1.114
550	7.731	34.617	27.013	1.173
600	7.224	34.595	27.069	1.228
650	6.796	34.580	27.116	1.281
700	6.453	34.568	27.153	1.333
750	5.925	34.554	27.210	1.382
800	5.601	34.553	27.250	1.429
900	5.201	34.550	27.295	1.518
1000	4.813	34.553	27.342	1.604
1002	4.767	34.551	27.346	1.606



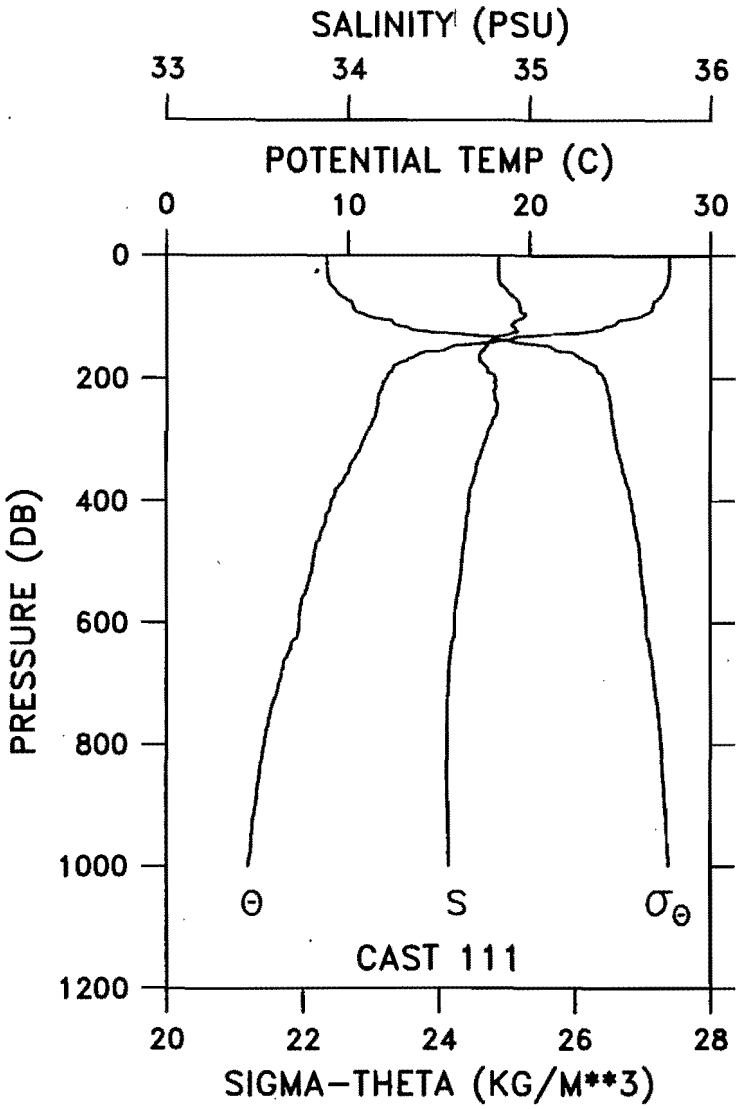
CAST GP2-97-KA-0091 DATE 09 APR 97 TIME 1445 GMT
LAT 02 00.2S LONG 124 53.2W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 081 T SPD 10 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 26.8 WET 24.3 DEPTH 4730 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.302	35.052	22.662	0.000
10	27.300	35.050	22.662	0.052
20	27.304	35.048	22.659	0.104
30	27.301	35.059	22.668	0.156
40	27.131	35.114	22.764	0.207
50	25.482	35.140	23.302	0.254
60	25.419	35.164	23.339	0.300
70	24.808	35.162	23.524	0.345
80	24.575	35.329	23.720	0.388
90	22.391	35.269	24.313	0.428
100	21.167	35.378	24.737	0.462
110	20.167	35.488	25.091	0.493
120	17.229	35.245	25.649	0.519
130	15.190	35.096	26.005	0.541
140	14.586	35.048	26.100	0.561
150	13.909	34.998	26.205	0.580
160	13.675	34.982	26.242	0.598
170	13.511	34.969	26.265	0.616
180	13.349	34.957	26.289	0.634
190	13.230	34.947	26.306	0.652
200	13.056	34.935	26.332	0.669
250	12.381	34.893	26.433	0.753
300	11.954	34.866	26.494	0.835
350	11.179	34.824	26.607	0.913
400	10.288	34.771	26.723	0.986
450	9.314	34.713	26.843	1.054
500	8.188	34.650	26.971	1.115
550	7.624	34.620	27.031	1.172
600	6.977	34.591	27.100	1.226
650	6.532	34.571	27.145	1.278
700	6.036	34.556	27.198	1.327
750	5.595	34.546	27.245	1.374
800	5.269	34.547	27.284	1.419
900	5.049	34.547	27.310	1.506
1000	4.566	34.553	27.370	1.590
1004	4.563	34.553	27.370	1.593



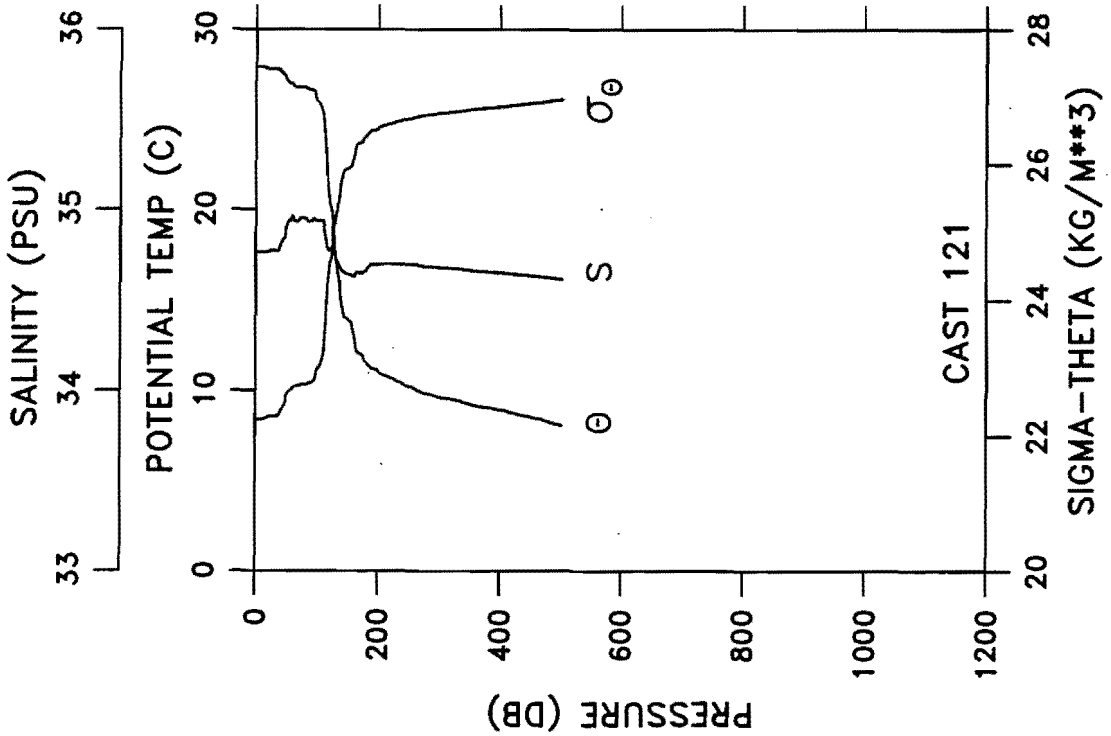
CAST GP2-97-KA-0101 DATE 14 APR 97 TIME 0758 GMT
LAT 00 02.7S LONG 139 55.4W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 080 T SPD 13 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 26.6 WET 24.4 DEPTH 4330 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.903	35.098	22.825	0.000
10	26.901	35.100	22.827	0.050
20	26.839	35.109	22.853	0.100
30	26.775	35.124	22.885	0.150
40	26.699	35.145	22.925	0.200
50	26.625	35.169	22.966	0.249
60	26.530	35.192	23.014	0.298
70	26.399	35.216	23.073	0.347
80	26.227	35.234	23.141	0.394
90	25.977	35.205	23.197	0.442
100	25.734	35.177	23.252	0.489
110	25.768	35.361	23.379	0.535
120	25.679	35.422	23.454	0.580
130	24.204	35.604	24.039	0.623
140	21.401	35.593	24.837	0.658
150	20.449	35.602	25.103	0.689
160	18.623	35.501	25.501	0.716
170	17.634	35.332	25.617	0.741
180	16.462	35.229	25.818	0.765
190	15.303	35.148	26.019	0.786
200	14.449	35.091	26.162	0.806
250	12.604	34.932	26.420	0.893
300	12.081	34.871	26.474	0.975
350	11.010	34.792	26.612	1.054
400	9.596	34.713	26.797	1.123
450	9.183	34.687	26.844	1.188
500	8.406	34.648	26.936	1.251
550	7.832	34.617	26.998	1.310
600	7.215	34.592	27.067	1.366
650	6.968	34.583	27.095	1.420
700	6.371	34.563	27.160	1.471
750	6.053	34.555	27.195	1.521
800	5.604	34.549	27.246	1.568
900	5.001	34.549	27.318	1.657
1000	4.616	34.554	27.365	1.740
1500	2.830	34.607	27.587	2.088
2000	2.121	34.642	27.675	2.367
2500	1.651	34.665	27.730	2.610
3000	1.414	34.676	27.756	2.840
3500	1.263	34.685	27.774	3.062
3505	1.262	34.684	27.774	3.064



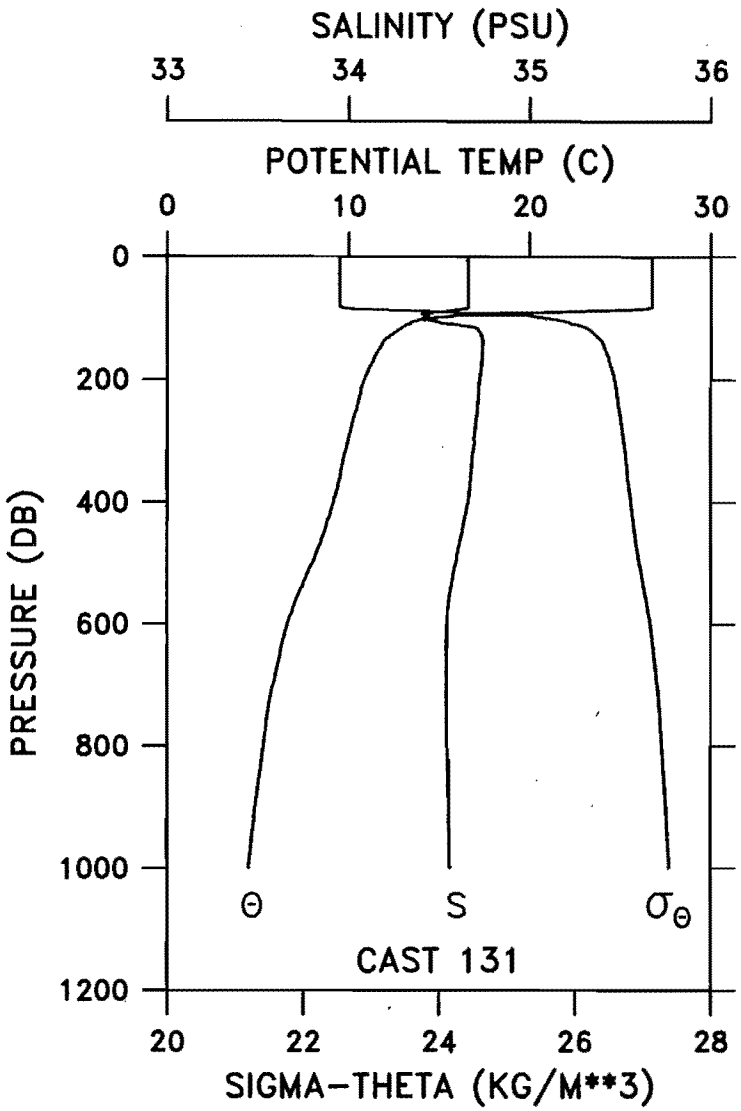
CAST GP2-97-KA-0111 DATE 16 APR 97 TIME 0429 GMT
LAT 01 59.3N LONG 140 01.1W WEATHER 9 SEA STATE 4
BAROMETER 10 WIND DIR 084 T SPD 13 KT VISIBILITY 6
CLOUD 9 AMOUNT 7 DRY 26.8 WET 24.8 DEPTH 4372 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.731	34.829	22.356	0.000
10	27.734	34.829	22.355	0.055
20	27.725	34.829	22.358	0.110
30	27.700	34.829	22.366	0.164
40	27.660	34.831	22.380	0.219
50	27.561	34.851	22.428	0.274
60	27.380	34.881	22.508	0.327
70	27.101	34.929	22.634	0.380
80	26.838	34.943	22.728	0.432
90	26.703	34.950	22.776	0.484
100	26.027	34.963	22.999	0.534
110	24.804	34.906	23.332	0.581
120	23.977	34.923	23.592	0.625
130	20.240	34.847	24.583	0.665
140	18.124	34.778	25.073	0.696
150	15.556	34.753	25.659	0.722
160	13.884	34.724	25.998	0.744
170	13.197	34.725	26.141	0.764
180	12.482	34.760	26.310	0.782
190	12.277	34.771	26.359	0.799
200	12.071	34.814	26.431	0.816
250	11.539	34.819	26.536	0.895
300	10.859	34.760	26.615	0.972
350	10.063	34.707	26.712	1.044
400	9.080	34.664	26.843	1.111
450	8.534	34.648	26.916	1.173
500	8.069	34.627	26.971	1.233
550	7.670	34.607	27.014	1.291
600	7.317	34.591	27.052	1.346
650	6.695	34.565	27.118	1.400
700	6.163	34.554	27.180	1.450
750	5.681	34.547	27.235	1.498
800	5.354	34.546	27.273	1.544
900	4.898	34.549	27.330	1.630
1000	4.490	34.556	27.381	1.712
1002	4.486	34.556	27.381	1.713



CAST GP2-97-KA-0121 DATE 17 APR 97 TIME 0323 GMT
LAT 05 02.7N LONG 139 58.9W WEATHER 0 SEA STATE 4
BAROMETER 10 WIND DIR 071 T SPD 11 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 27.3 WET 24.5 DEPTH 4315 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.917	34.765	22.247	0.000
10	27.914	34.763	22.247	0.056
20	27.810	34.767	22.283	0.111
30	27.793	34.774	22.295	0.167
40	27.689	34.795	22.344	0.222
50	27.194	34.907	22.588	0.276
60	26.952	34.960	22.705	0.329
70	26.796	34.942	22.741	0.380
80	26.777	34.951	22.754	0.431
90	26.637	34.934	22.785	0.482
100	26.010	34.936	22.984	0.533
110	25.311	34.935	23.199	0.581
120	20.454	34.772	24.469	0.622
130	17.349	34.736	25.229	0.654
140	14.660	34.666	25.789	0.679
150	13.913	34.643	25.930	0.701
160	13.026	34.627	26.100	0.721
170	12.019	34.649	26.313	0.739
180	11.534	34.663	26.416	0.756
190	11.194	34.695	26.503	0.772
200	11.005	34.694	26.537	0.788
250	10.226	34.699	26.679	0.862
300	9.652	34.681	26.762	0.930
350	9.282	34.667	26.812	0.996
400	8.958	34.652	26.853	1.061
450	8.567	34.636	26.902	1.123
500	8.104	34.617	26.958	1.184
502	8.077	34.616	26.961	1.186



CAST GP2-97-KA-0131 DATE 18 APR 97 TIME 1251 GMT
LAT 08 56.8N LONG 140 21.2W WEATHER 5 SEA STATE 5
BAROMETER 11 WIND DIR 223 T SPD 14 KT VISIBILITY 6
CLOUD 8 AMOUNT 2 DRY 26.0 WET 23.2 DEPTH 5002 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.768	34.661	22.538	0.000
10	26.771	34.662	22.538	0.053
20	26.772	34.662	22.538	0.106
30	26.770	34.662	22.539	0.159
40	26.771	34.663	22.539	0.212
50	26.772	34.663	22.539	0.265
60	26.770	34.663	22.539	0.319
70	26.766	34.663	22.540	0.372
80	26.751	34.665	22.546	0.425
90	20.868	34.499	24.150	0.474
100	14.502	34.417	25.631	0.503
110	13.230	34.602	26.039	0.525
120	12.695	34.721	26.238	0.543
130	12.271	34.734	26.331	0.561
140	11.890	34.742	26.410	0.578
150	11.697	34.740	26.445	0.594
160	11.481	34.738	26.484	0.610
170	11.346	34.736	26.507	0.626
180	11.149	34.732	26.540	0.641
190	10.997	34.729	26.566	0.656
200	10.879	34.725	26.584	0.671
250	10.416	34.712	26.656	0.744
300	9.974	34.696	26.720	0.815
350	9.579	34.677	26.771	0.883
400	9.180	34.661	26.824	0.949
450	8.659	34.627	26.880	1.013
500	8.019	34.594	26.952	1.074
550	7.258	34.561	27.037	1.131
600	6.607	34.545	27.114	1.184
650	6.210	34.541	27.163	1.235
700	5.818	34.542	27.214	1.283
750	5.495	34.544	27.255	1.330
800	5.300	34.546	27.280	1.374
900	4.813	34.555	27.344	1.460
1000	4.463	34.561	27.388	1.541
1002	4.462	34.560	27.387	1.543

CAST GP2-97-KA-0011 LAT 08 06.0N LONG 124 59.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.383	34.651	27.381	22.334
200.	10.897	34.713	10.873	26.577
599.	6.927	34.563	6.871	27.091
800.	5.457	34.555	5.389	27.276
1006.	4.561	34.563	4.481	27.386
1005.	4.563	34.563	4.482	27.386

CAST GP2-97-KA-0012 LAT 08 04.7N LONG 124 59.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.324	34.653	27.322	22.356
201.	10.944	34.720	10.919	26.574
300.	10.120	34.696	10.085	26.703
399.	9.321	34.658	9.277	26.808
502.	8.181	34.611	8.129	26.950
501.	8.195	34.610	8.142	26.948

CAST GP2-97-KA-0021 LAT 05 59.8N LONG 124 53.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.434	34.332	27.432	22.081
201.	10.910	34.729	10.885	26.586
602.	6.959	34.579	6.902	27.100
797.	5.533	34.556	5.464	27.268
1000.	4.588	34.569	4.508	27.385
1002.	4.586	34.565	4.505	27.385

CAST GP2-97-KA-0031 LAT 05 07.7N LONG 124 57.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.658	34.303	27.656	21.986
200.	10.537	34.714	10.513	26.642
600.	7.056	34.581	6.998	27.091
800.	5.482	34.554	5.413	27.274
1003.	4.465	34.568	4.386	27.401
1002.	4.466	34.566	4.387	27.400

CAST GP2-97-KA-0041 LAT 03 00.2N LONG 124 59.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
12.	26.966	34.813	26.963	22.592
199.	12.406	34.856	12.379	26.407
602.	6.759	34.569	6.703	27.122
803.	5.770	34.552	5.700	27.238
1002.	4.760	34.563	4.678	27.361
1002.	4.761	34.557	4.680	27.361

CAST GP2-97-KA-0051 LAT 02 00.5N LONG 125 01.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	26.287	35.046	26.285	22.980
75.	23.561	34.879	23.545	23.680
149.	13.419	34.918	13.398	26.250
299.	11.547	34.820	11.508	26.544
500.	8.424	34.635	8.371	26.929
1001.	4.903	34.552	4.820	27.341
1500.	3.230	34.604	3.119	27.554
2001.	2.345	34.640	2.204	27.666
2500.	1.839	34.667	1.662	27.730
2999.	1.683	34.680	1.462	27.751
3498.	1.469	34.694	1.204	27.781
4001.	1.440	34.693	1.123	27.789

CAST GP2-97-KA-0061 LAT 01 57.9N LONG 125 01.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	26.216	34.998	26.214	22.967
202.	12.596	34.871	12.568	26.382
300.	11.587	34.821	11.548	26.538
401.	10.699	34.762	10.651	26.650
500.	8.556	34.636	8.502	26.915

CAST GP2-97-KA-0071 LAT 00 22.5S LONG 122 32.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	26.260	35.251	26.258	23.137
202.	13.085	34.926	13.057	26.322
304.	11.859	34.842	11.819	26.500
401.	10.445	34.765	10.396	26.699
499.	8.487	34.647	8.434	26.931
499.	8.490	34.650	8.437	26.931

CAST GP2-97-KA-0081 LAT 00 10.6S LONG 124 21.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.560	35.225	26.558	23.031
76.	23.169	35.596	23.154	24.326
148.	14.680	35.102	14.658	26.122
302.	11.755	34.833	11.716	26.519
503.	8.658	34.657	8.604	26.917
1001.	4.946	34.550	4.863	27.337
1507.	3.108	34.601	2.998	27.569
2004.	2.389	34.639	2.246	27.663
2475.	1.882	34.663	1.706	27.727
3000.	1.705	34.675	1.484	27.751
3499.	1.496	34.687	1.230	27.780
3998.	1.430	34.695	1.113	27.793

CAST GP2-97-KA-0082 LAT 00 10.7S LONG 124 21.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	26.622	35.241	26.620	23.020
609.	7.201	34.587	7.142	27.076
800.	5.672	34.551	5.603	27.250
984.	4.939	34.550	4.857	27.336
983.	4.939	34.550	4.857	27.336

CAST GP2-97-KA-0091 LAT 02 00.2S LONG 124 53.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	27.305	35.046	27.303	22.658
200.	13.090	34.929	13.062	26.327
601.	7.036	34.585	6.978	27.098
801.	5.302	34.559	5.234	27.288
999.	4.646	34.560	4.565	27.370
1002.	4.646	34.562	4.565	27.370

CAST GP2-97-KA-0101 LAT 00 02.7S LONG 139 55.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	26.857	35.102	26.854	22.844
76.	26.374	35.216	26.357	23.086
151.	20.902	35.612	20.873	24.998
301.	11.842	34.848	11.803	26.505
499.	8.324	34.640	8.272	26.949
1000.	4.640	34.555	4.560	27.372
1500.	2.922	34.608	2.815	27.589
2000.	2.227	34.644	2.087	27.680
2499.	1.819	34.666	1.642	27.732
3000.	1.633	34.676	1.413	27.757
3503.	1.530	34.685	1.263	27.774
3502.	1.529	34.685	1.262	27.774

CAST GP2-97-KA-0111 LAT 01 59.3N LONG 140 01.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	27.727	34.830	27.724	22.357
199.	12.055	34.810	12.029	26.437
601.	7.372	34.590	7.313	27.052
803.	5.416	34.546	5.348	27.274
1001.	4.567	34.557	4.487	27.381
1001.	4.567	34.557	4.487	27.381

CAST GP2-97-KA-0121 LAT 05 02.7N LONG 139 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.899	34.761	27.897	22.252
202.	10.953	34.689	10.928	26.549
404.	8.955	34.646	8.911	26.857
498.	8.170	34.615	8.118	26.955
499.	8.158	34.614	8.106	26.957

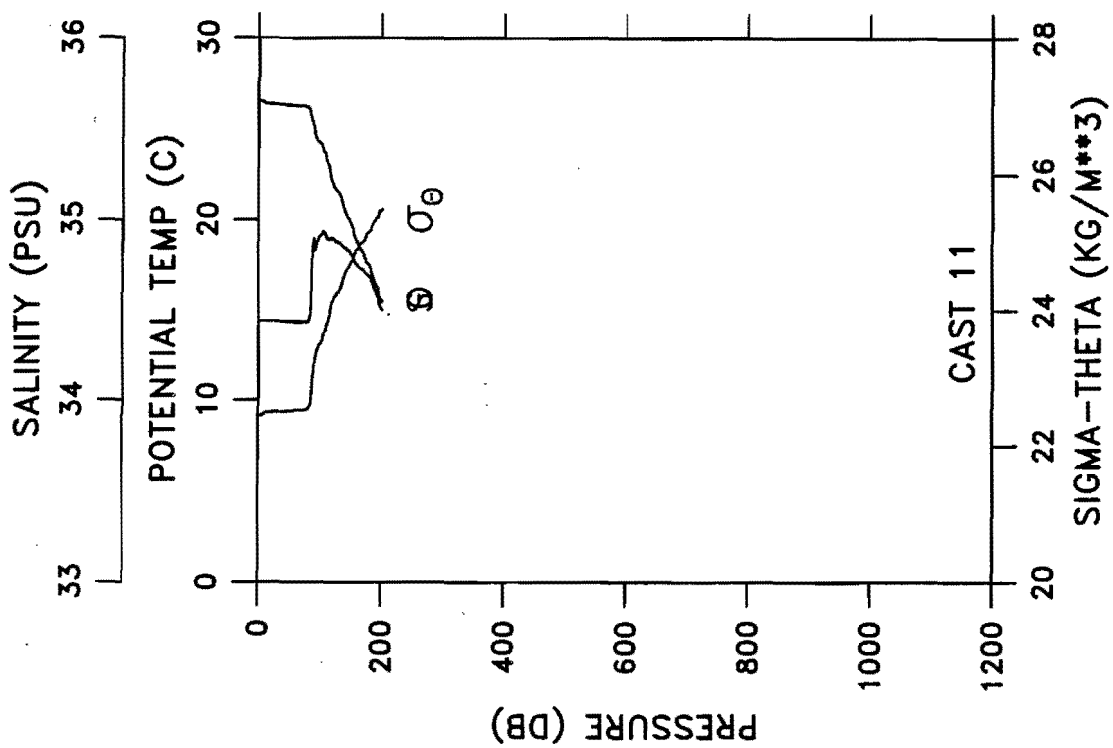
CAST GP2-97-KA-0131 LAT 08 56.8N LONG 140 21.2W

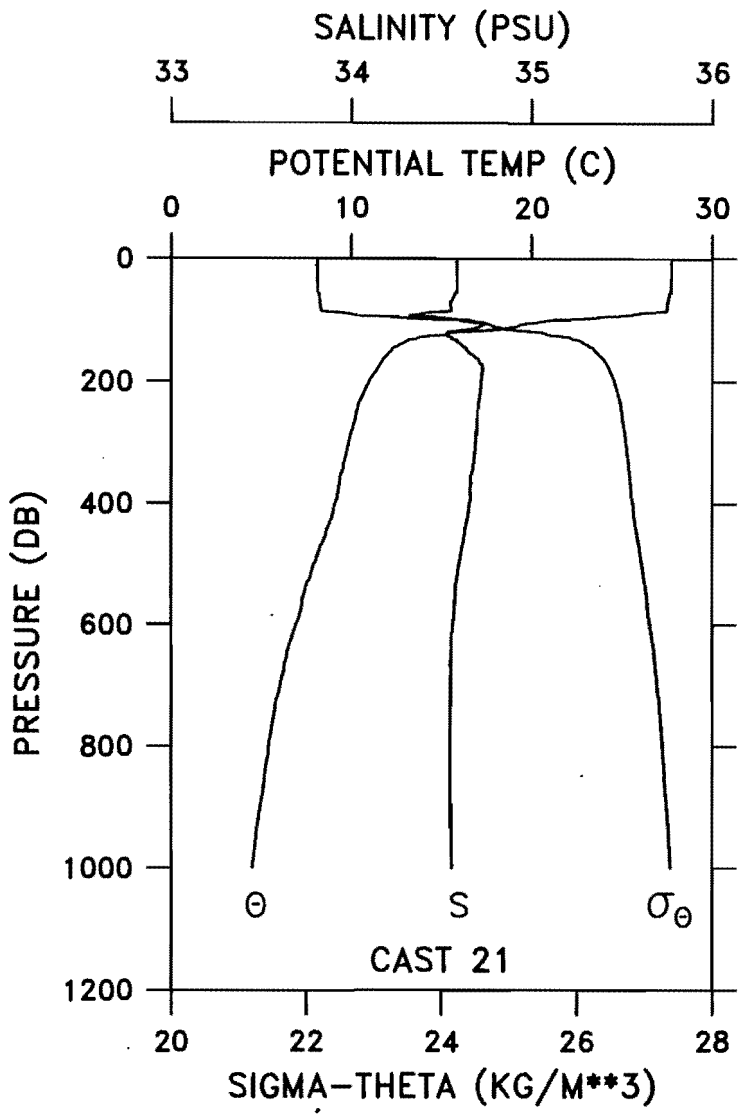
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	26.758	34.668	26.756	22.545
201.	10.866	34.721	10.841	26.587
600.	6.790	34.544	6.734	27.097
799.	5.386	34.547	5.318	27.277
1001.	4.542	34.559	4.462	27.388
1001.	4.542	34.560	4.462	27.388

GP3-97-KA
May 6–June 3, 1997
CTD and Hydrographic Data Summary

CAST GP3-97-KA-0011 DATE 09 MAY 97 TIME 0046 GMT
LAT 13 41.6N LONG 156 16.2W WEATHER 2 SEA STATE 3
BAROMETER 12 WIND DIR 055 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 5 DRY 25.2 WET 24.0 DEPTH 5534 M

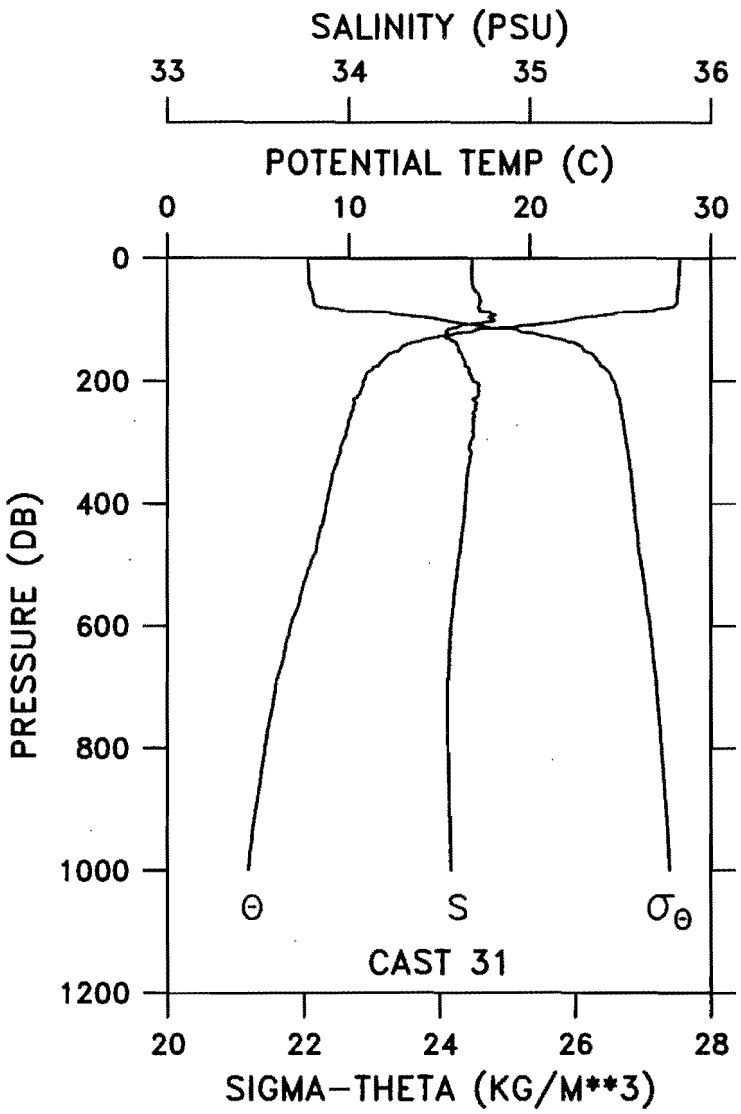
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.553	34.442	22.441	0.000
10	26.452	34.438	22.470	0.054
20	26.383	34.438	22.492	0.107
30	26.376	34.438	22.494	0.161
40	26.366	34.437	22.497	0.214
50	26.315	34.432	22.509	0.268
60	26.290	34.431	22.516	0.321
70	26.277	34.432	22.520	0.375
80	26.230	34.432	22.535	0.428
90	25.200	34.899	23.206	0.479
100	24.238	34.911	23.505	0.525
110	23.391	34.901	23.747	0.568
120	22.083	34.898	24.119	0.608
130	21.505	34.873	24.260	0.646
140	20.521	34.843	24.505	0.682
150	19.783	34.815	24.679	0.715
160	18.780	34.752	24.889	0.748
170	18.230	34.725	25.006	0.778
180	17.508	34.688	25.154	0.807
190	16.466	34.602	25.335	0.835
200	15.496	34.507	25.483	0.861
201	15.459	34.498	25.485	0.864





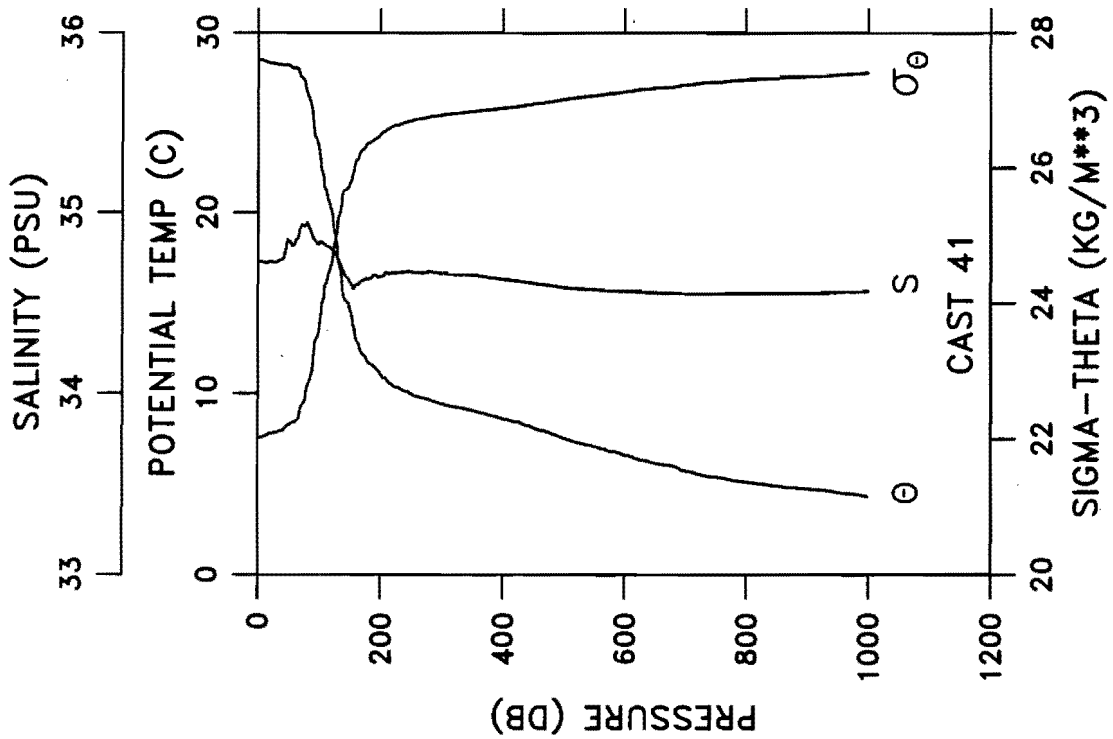
CAST GP3-97-KA-0021 DATE 10 MAY 97 TIME 1335 GMT
LAT 07 58.9N LONG 155 00.3W WEATHER 1 SEA STATE 4
BAROMETER 11 WIND DIR 075 T SPD 17 KT VISIBILITY 7
CLOUD 8 AMOUNT DRY 26.9 WET 24.7 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.754	34.585	22.164	0.000
10	27.753	34.586	22.166	0.057
20	27.753	34.587	22.167	0.113
30	27.756	34.588	22.166	0.170
40	27.733	34.587	22.173	0.226
50	27.722	34.588	22.178	0.283
60	27.620	34.572	22.199	0.340
70	27.548	34.551	22.206	0.396
80	27.514	34.552	22.218	0.453
90	25.711	34.379	22.656	0.508
100	21.059	34.652	24.214	0.554
110	19.228	34.722	24.752	0.588
120	15.689	34.530	25.457	0.618
130	13.624	34.558	25.924	0.641
140	12.658	34.613	26.162	0.661
150	12.223	34.642	26.269	0.679
160	11.887	34.687	26.368	0.697
170	11.632	34.715	26.438	0.713
180	11.420	34.728	26.487	0.729
190	11.202	34.725	26.525	0.745
200	10.991	34.720	26.560	0.760
250	10.287	34.702	26.670	0.833
300	9.881	34.690	26.730	0.903
350	9.486	34.670	26.781	0.971
400	9.108	34.655	26.831	1.036
450	8.613	34.629	26.889	1.100
500	7.952	34.598	26.966	1.160
550	7.384	34.578	27.033	1.217
600	6.945	34.564	27.083	1.272
650	6.421	34.555	27.147	1.324
700	6.047	34.552	27.193	1.373
750	5.703	34.549	27.234	1.421
800	5.415	34.550	27.270	1.466
900	4.930	34.553	27.329	1.554
1000	4.496	34.559	27.383	1.635
1005	4.485	34.559	27.384	1.639



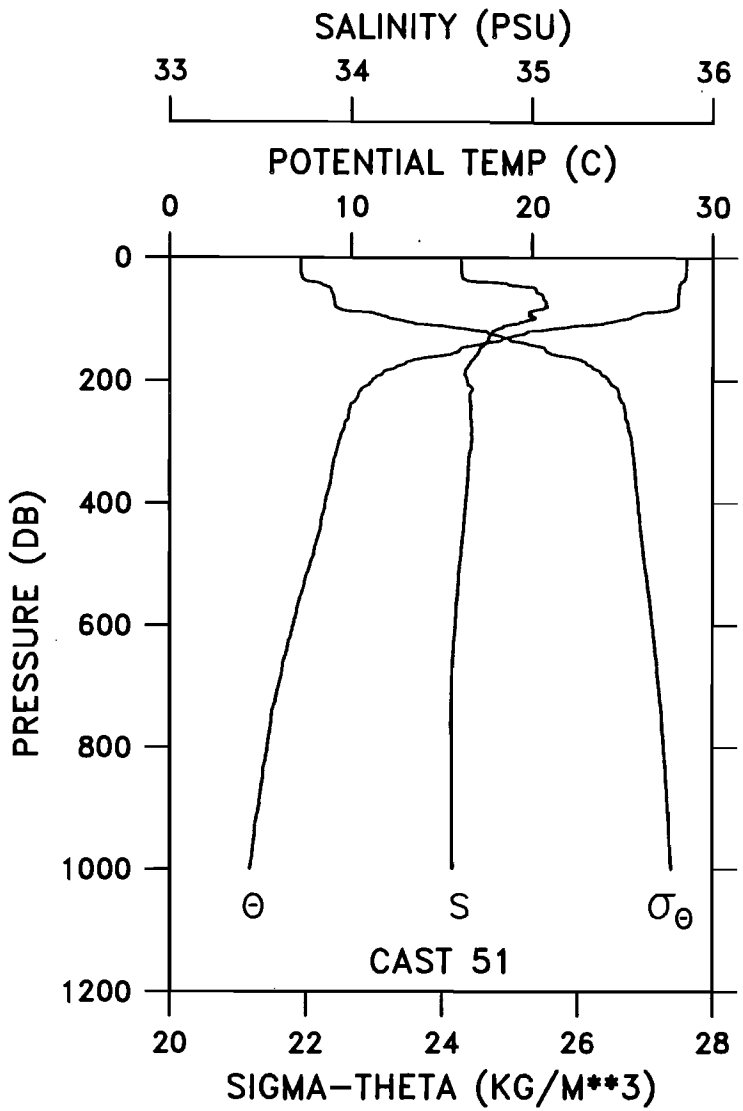
CAST GP3-97-KA-0031 DATE 10 MAY 97 TIME 2047 GMT
LAT 06 59.9N LONG 154 58.0W WEATHER 1 SEA STATE 4
BAROMETER 12 WIND DIR 102 T SPD 18 KT VISIBILITY 7
CLOUD 2 AMOUNT 6 DRY 29.0 WET 25.5 DEPTH 5690 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.284	34.681	22.064	0.000
10	28.273	34.679	22.066	0.058
20	28.248	34.678	22.074	0.115
30	28.237	34.679	22.078	0.173
40	28.227	34.681	22.082	0.230
50	28.182	34.690	22.104	0.288
60	28.143	34.718	22.138	0.345
70	28.129	34.726	22.149	0.402
80	27.804	34.719	22.249	0.459
90	24.634	34.785	23.292	0.510
100	22.194	34.799	24.012	0.552
110	19.399	34.613	24.624	0.589
120	16.797	34.536	25.207	0.619
130	14.441	34.541	25.740	0.644
140	13.163	34.593	26.046	0.666
150	12.775	34.605	26.132	0.685
160	12.050	34.624	26.288	0.703
170	11.729	34.640	26.361	0.721
180	11.301	34.665	26.460	0.737
190	10.942	34.674	26.532	0.753
200	10.775	34.685	26.571	0.768
250	10.148	34.689	26.684	0.840
300	9.666	34.672	26.753	0.909
350	9.114	34.654	26.829	0.975
400	8.768	34.640	26.873	1.038
450	8.340	34.622	26.926	1.100
500	7.870	34.601	26.980	1.159
550	7.311	34.579	27.044	1.216
600	6.752	34.562	27.108	1.269
650	6.385	34.554	27.150	1.321
700	5.915	34.544	27.204	1.369
750	5.626	34.546	27.241	1.416
800	5.332	34.547	27.277	1.462
900	4.823	34.556	27.343	1.548
1000	4.428	34.562	27.393	1.628
1009	4.392	34.562	27.396	1.636



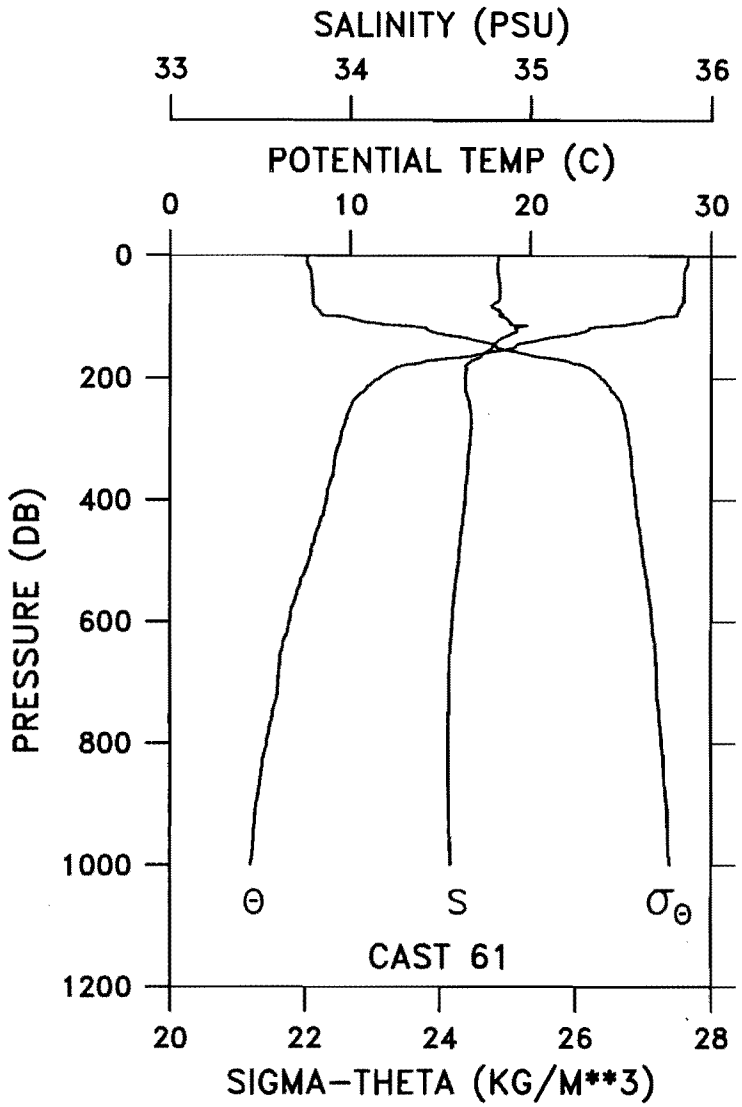
CAST GP3-97-KA-0041 DATE 11 MAY 97 TIME 0405 GMT
LAT 06 00.1N LONG 154 56.6W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 088 T SPD 10 KT VISIBILITY 7
CLOUD 2 AMOUNT 6 DRY 27.9 WET 25.2 DEPTH 5484 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.498	34.729	22.029	0.000
10	28.427	34.722	22.048	0.058
20	28.317	34.728	22.088	0.115
30	28.271	34.725	22.101	0.173
40	28.224	34.740	22.128	0.230
50	28.199	34.842	22.213	0.287
60	28.046	34.827	22.252	0.343
70	27.561	34.924	22.483	0.398
80	26.675	34.946	22.782	0.451
90	25.107	34.867	23.210	0.500
100	23.424	34.831	23.684	0.545
110	21.298	34.821	24.277	0.584
120	20.065	34.797	24.591	0.619
130	17.399	34.746	25.225	0.651
140	15.265	34.667	25.657	0.676
150	14.565	34.614	25.769	0.700
160	12.867	34.605	26.114	0.721
170	12.160	34.625	26.268	0.740
180	11.668	34.634	26.368	0.757
190	11.461	34.656	26.424	0.774
200	11.016	34.646	26.497	0.790
250	9.981	34.671	26.699	0.863
300	9.435	34.665	26.785	0.930
350	9.067	34.654	26.837	0.995
400	8.608	34.631	26.891	1.058
450	8.120	34.609	26.949	1.118
500	7.541	34.586	27.016	1.176
550	7.078	34.575	27.073	1.231
600	6.610	34.567	27.131	1.283
650	6.160	34.558	27.183	1.333
700	5.721	34.553	27.235	1.380
750	5.392	34.550	27.272	1.426
800	5.108	34.553	27.308	1.469
900	4.724	34.558	27.356	1.552
1000	4.312	34.566	27.408	1.632
1005	4.301	34.566	27.409	1.636



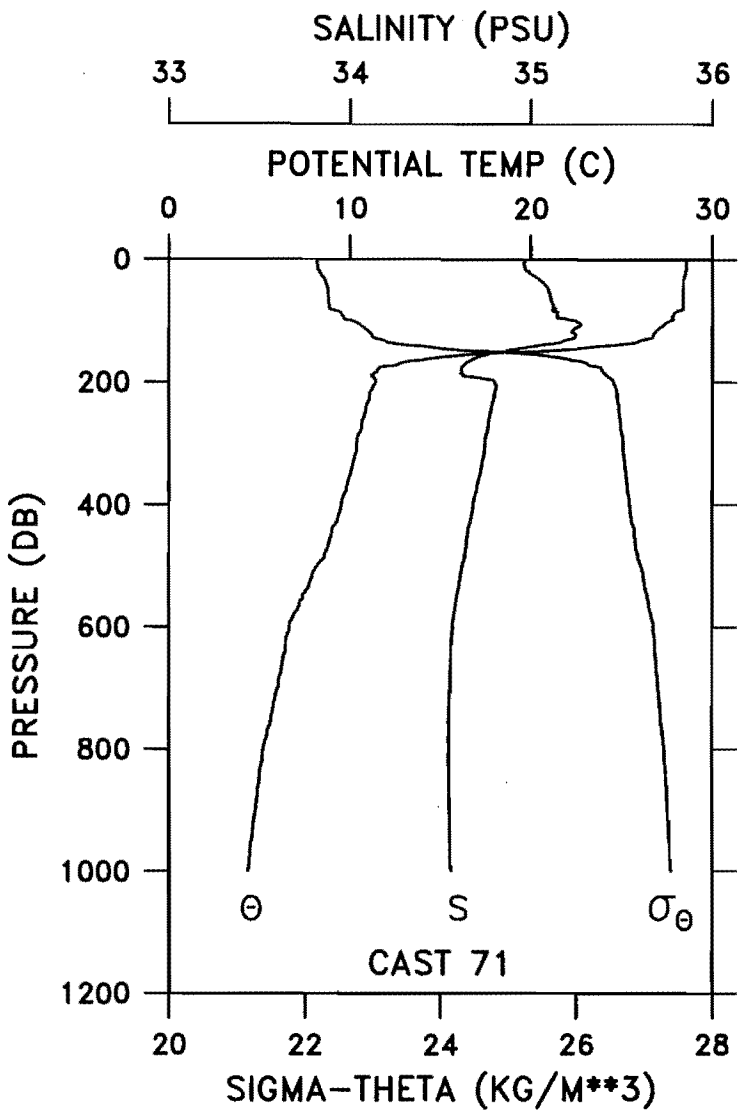
CAST GP3-97-KA-0051 DATE 11 MAY 97 TIME 1312 GMT
LAT 05 02.4N LONG 154 53.0W WEATHER 1 SEA STATE 2
BAROMETER 09 WIND DIR 065 T SPD 11 KT VISIBILITY 7
CLOUD 5 AMOUNT DRY 27.4 WET 25.3 DEPTH 4632 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.533	34.607	21.926	0.000
10	28.542	34.608	21.924	0.059
20	28.541	34.609	21.925	0.118
30	28.495	34.612	21.943	0.177
40	28.230	34.777	22.154	0.235
50	28.128	35.017	22.367	0.291
60	28.103	35.055	22.405	0.345
70	28.091	35.073	22.422	0.400
80	28.057	35.084	22.442	0.454
90	26.066	34.980	23.000	0.507
100	25.113	35.002	23.310	0.554
110	22.841	34.860	23.875	0.598
120	19.755	34.786	24.664	0.635
130	18.645	34.758	24.928	0.667
140	17.235	34.740	25.260	0.696
150	15.976	34.707	25.528	0.722
160	14.802	34.684	25.773	0.746
170	13.026	34.657	26.123	0.767
180	12.391	34.637	26.232	0.786
190	11.673	34.625	26.360	0.803
200	11.172	34.638	26.463	0.820
250	9.885	34.658	26.705	0.893
300	9.325	34.663	26.802	0.960
350	8.938	34.644	26.850	1.024
400	8.571	34.631	26.897	1.086
450	8.217	34.617	26.941	1.147
500	7.745	34.599	26.997	1.205
550	7.234	34.588	27.061	1.261
600	6.788	34.574	27.113	1.314
650	6.360	34.561	27.160	1.365
700	5.986	34.555	27.203	1.413
750	5.591	34.551	27.249	1.460
800	5.380	34.551	27.275	1.505
900	4.879	34.556	27.337	1.591
1000	4.416	34.560	27.392	1.672
1500	3.029	34.604	27.566	2.023
2000	2.165	34.639	27.669	2.309
2500	1.722	34.663	27.723	2.557
3000	1.475	34.675	27.751	2.792
3500	1.237	34.685	27.776	3.016
3703	1.170	34.689	27.784	3.104



CAST GP3-97-KA-0061 DATE 12 MAY 97 TIME 0846 GMT
LAT 04 00.3N LONG 154 55.5W WEATHER 5 SEA STATE 2
BAROMETER 09 WIND DIR 020 T SPD 09 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 27.5 WET 26.0 DEPTH 5310 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.699	34.822	22.033	0.000
10	28.700	34.819	22.030	0.058
20	28.574	34.817	22.071	0.116
30	28.518	34.820	22.091	0.173
40	28.499	34.825	22.102	0.230
50	28.481	34.830	22.111	0.288
60	28.476	34.830	22.112	0.345
70	28.465	34.827	22.114	0.402
80	28.342	34.792	22.128	0.460
90	28.167	34.829	22.213	0.517
100	27.047	34.843	22.587	0.572
110	25.730	34.891	23.037	0.624
120	23.234	34.920	23.807	0.668
130	22.083	34.882	24.106	0.708
140	20.111	34.818	24.595	0.744
150	19.108	34.787	24.832	0.776
160	17.348	34.743	25.235	0.806
170	14.856	34.687	25.763	0.832
180	12.878	34.641	26.140	0.853
190	12.152	34.642	26.282	0.871
200	11.649	34.638	26.375	0.888
250	9.980	34.668	26.696	0.964
300	9.462	34.668	26.783	1.031
350	9.097	34.653	26.831	1.096
400	8.701	34.639	26.883	1.159
450	8.164	34.620	26.951	1.220
500	7.724	34.604	27.004	1.278
550	7.083	34.582	27.078	1.333
600	6.655	34.570	27.127	1.385
650	6.153	34.558	27.184	1.435
700	6.010	34.553	27.198	1.483
750	5.693	34.547	27.234	1.531
800	5.376	34.546	27.271	1.576
900	4.778	34.551	27.345	1.662
1000	4.457	34.558	27.386	1.743
1006	4.412	34.559	27.392	1.748

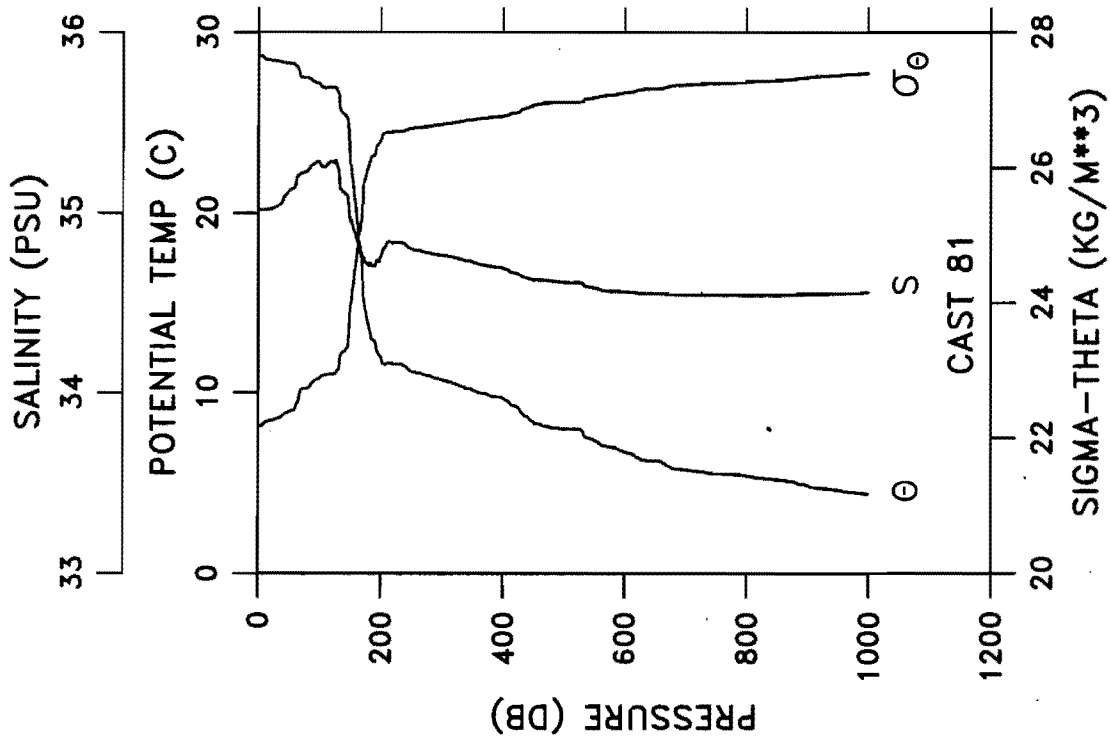


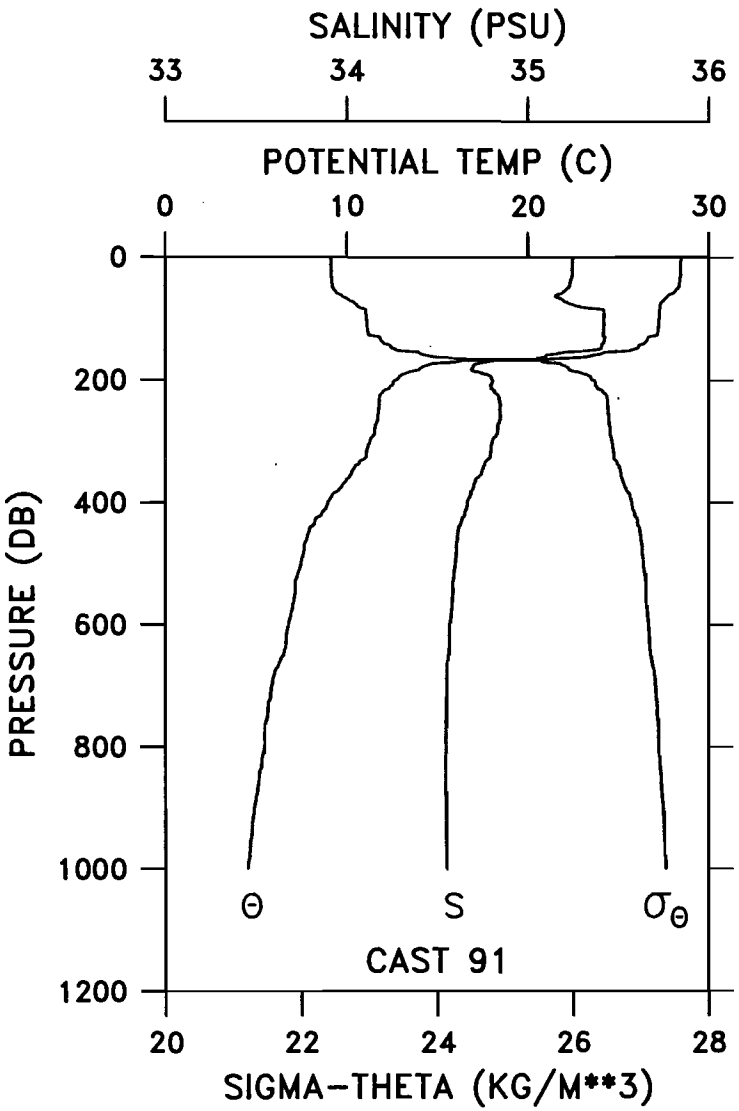
CAST GP3-97-KA-0071 DATE 12 MAY 97 TIME 1545 GMT
LAT 03 00.3N LONG 154 58.0W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 088 T SPD 10 KT VISIBILITY 7
CLOUD 3 AMOUNT DRY 27.5 WET 25.2 DEPTH 4755 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.553	34.966	22.190	0.000
10	28.558	34.965	22.187	0.056
20	28.521	34.990	22.218	0.113
30	28.445	35.035	22.277	0.169
40	28.414	35.075	22.318	0.224
50	28.401	35.097	22.338	0.279
60	28.406	35.108	22.345	0.334
70	28.407	35.117	22.351	0.389
80	28.405	35.138	22.367	0.444
90	27.860	35.143	22.550	0.498
100	27.604	35.252	22.715	0.551
110	27.125	35.254	22.871	0.602
120	26.787	35.243	22.971	0.652
130	26.212	35.199	23.119	0.701
140	24.154	35.036	23.624	0.747
150	19.890	34.810	24.647	0.786
160	14.811	34.697	25.780	0.813
170	12.688	34.636	26.173	0.833
180	11.522	34.616	26.381	0.851
190	11.194	34.640	26.461	0.867
200	11.414	34.801	26.546	0.883
250	10.838	34.776	26.630	0.957
300	10.383	34.745	26.687	1.029
350	10.017	34.718	26.729	1.099
400	9.520	34.681	26.784	1.167
450	8.954	34.649	26.851	1.233
500	8.163	34.620	26.951	1.295
550	7.363	34.590	27.045	1.352
600	6.625	34.567	27.129	1.405
650	6.292	34.559	27.166	1.455
700	5.981	34.552	27.202	1.504
750	5.610	34.546	27.243	1.551
800	5.190	34.546	27.294	1.596
900	4.770	34.551	27.346	1.680
1000	4.329	34.560	27.402	1.761
1004	4.301	34.560	27.405	1.764

CAST GP3-97-KA-0081 DATE 12 MAY 97 TIME 2257 GMT
LAT 02 00.6N LONG 154 59.6W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 105 T SPD 12 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 28.0 WET 26.6 DEPTH 4698 M

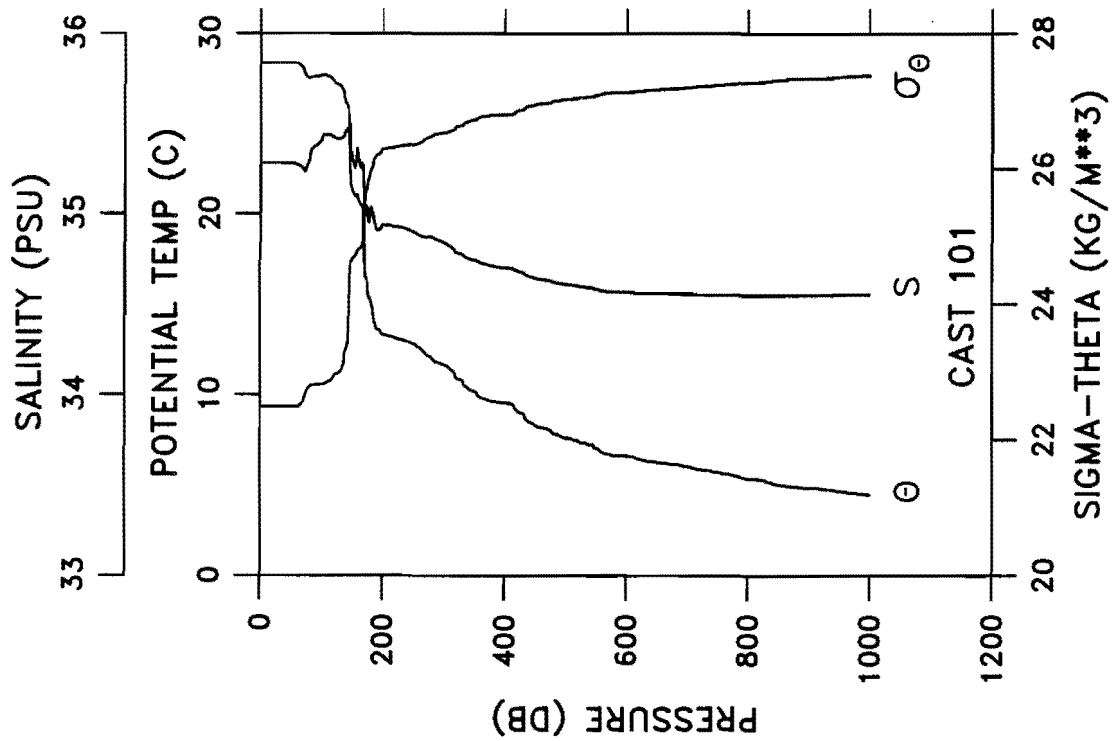
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.701	35.020	22.181	0.000
10	28.582	35.018	22.219	0.056
20	28.474	35.024	22.259	0.112
30	28.418	35.038	22.288	0.168
40	28.353	35.071	22.335	0.223
50	28.303	35.123	22.390	0.278
60	28.207	35.149	22.441	0.332
70	27.520	35.221	22.719	0.385
80	27.493	35.234	22.738	0.437
90	27.288	35.272	22.832	0.488
100	27.157	35.283	22.883	0.538
110	26.934	35.257	22.934	0.588
120	26.982	35.290	22.944	0.638
130	26.678	35.251	23.011	0.687
140	25.488	35.114	23.280	0.735
150	22.830	34.953	23.948	0.780
160	20.022	34.856	24.647	0.816
170	16.746	34.762	25.392	0.846
180	13.695	34.708	26.026	0.868
190	12.892	34.704	26.186	0.887
200	11.961	34.758	26.409	0.905
250	11.195	34.800	26.585	0.982
300	10.727	34.765	26.642	1.056
350	10.183	34.728	26.709	1.128
400	9.712	34.694	26.762	1.197
450	8.393	34.627	26.922	1.262
500	8.002	34.614	26.971	1.320
550	7.373	34.583	27.039	1.378
600	6.734	34.562	27.110	1.432
650	6.243	34.552	27.168	1.482
700	5.746	34.545	27.225	1.530
750	5.536	34.545	27.251	1.576
800	5.395	34.543	27.267	1.621
900	4.886	34.547	27.329	1.709
1000	4.390	34.557	27.393	1.790
1002	4.387	34.557	27.393	1.791





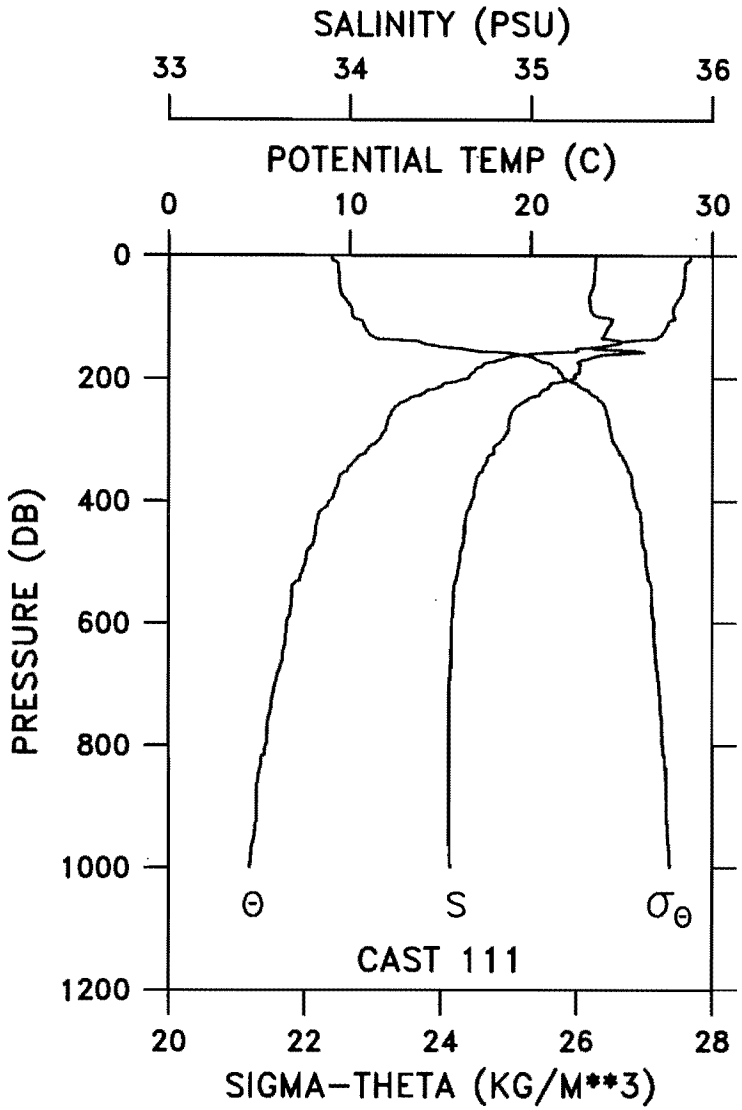
CAST GP3-97-KA-0091 DATE 13 MAY 97 TIME 1241 GMT
LAT 01 00.2N LONG 154 59.9W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 115 T SPD 13 KT VISIBILITY 7
CLOUD 3 AMOUNT DRY 27.7 WET 25.6 DEPTH 4761 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.451	35.249	22.436	0.000
10	28.441	35.247	22.437	0.054
20	28.433	35.244	22.438	0.108
30	28.438	35.247	22.438	0.162
40	28.383	35.236	22.448	0.216
50	28.302	35.223	22.466	0.270
60	27.886	35.166	22.559	0.324
70	27.505	35.194	22.704	0.376
80	27.309	35.280	22.832	0.427
90	27.273	35.420	22.949	0.477
100	27.240	35.420	22.959	0.526
110	27.217	35.418	22.965	0.576
120	27.178	35.418	22.978	0.625
130	26.633	35.427	23.158	0.674
140	26.448	35.416	23.209	0.722
150	25.829	35.391	23.383	0.768
160	23.564	35.102	23.849	0.811
170	16.141	34.777	25.545	0.845
180	14.091	34.692	25.931	0.868
190	13.206	34.761	26.167	0.888
200	12.720	34.802	26.296	0.906
250	11.751	34.845	26.517	0.988
300	11.287	34.802	26.570	1.066
350	10.293	34.742	26.700	1.140
400	8.956	34.666	26.864	1.207
450	7.894	34.613	26.986	1.267
500	7.474	34.600	27.037	1.323
550	7.144	34.585	27.072	1.378
600	6.790	34.570	27.109	1.430
650	6.512	34.561	27.140	1.482
700	5.873	34.553	27.215	1.530
750	5.643	34.549	27.241	1.577
800	5.471	34.548	27.261	1.622
900	4.909	34.548	27.328	1.710
1000	4.567	34.553	27.370	1.793
1004	4.537	34.553	27.373	1.796



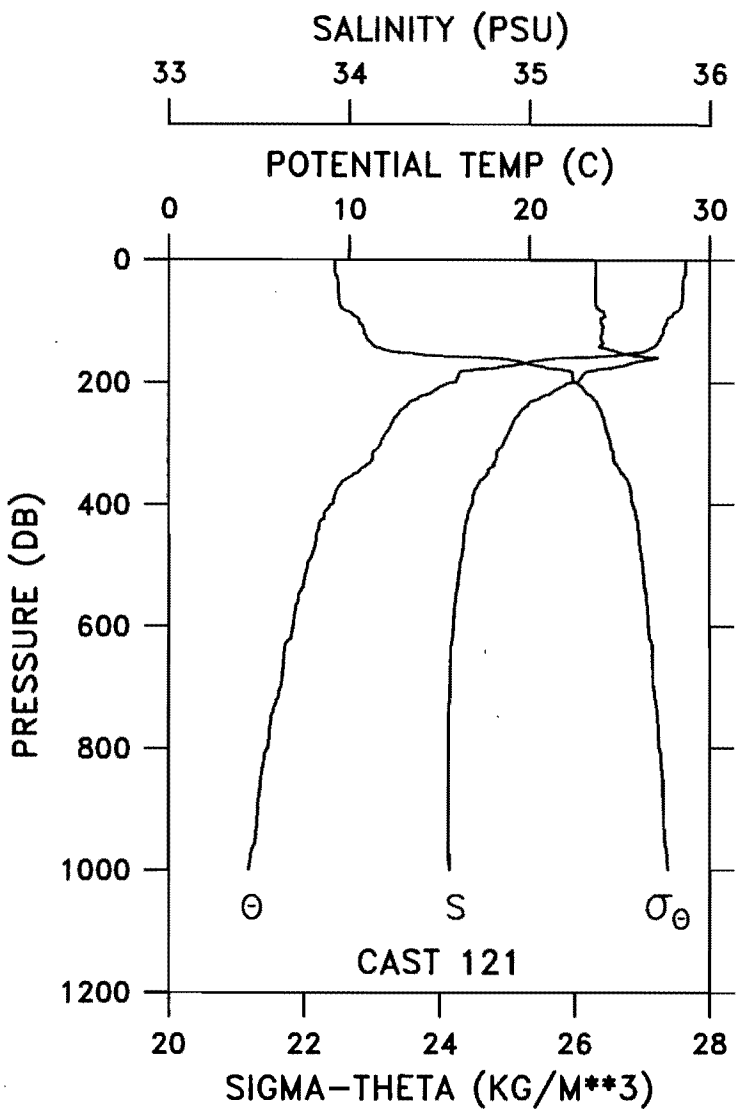
CAST GP3-97-KA-0101 DATE 13 MAY 97 TIME 1648 GMT
LAT 00 30.3N LONG 155 00.2W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 115 T SPD 17 KT VISIBILITY 7
CLOUD 2 AMOUNT 6 DRY 25.9 WET 24.5 DEPTH 4693 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.374	35.285	22.488	0.000
10	28.376	35.283	22.486	0.053
20	28.376	35.282	22.486	0.107
30	28.376	35.282	22.485	0.161
40	28.367	35.280	22.487	0.214
50	28.364	35.279	22.487	0.268
60	28.320	35.272	22.496	0.322
70	28.030	35.244	22.570	0.375
80	27.515	35.299	22.779	0.427
90	27.598	35.375	22.810	0.478
100	27.657	35.408	22.816	0.528
110	27.598	35.435	22.854	0.579
120	27.310	35.421	22.937	0.629
130	27.096	35.414	23.001	0.679
140	26.114	35.460	23.347	0.727
150	21.195	35.290	24.863	0.766
160	20.702	35.301	24.805	0.798
170	17.153	35.027	25.499	0.829
180	15.141	35.036	25.970	0.852
190	13.583	34.912	26.207	0.871
200	13.296	34.939	26.287	0.889
250	12.813	34.900	26.353	0.977
300	11.630	34.838	26.534	1.059
350	10.192	34.744	26.720	1.133
400	9.553	34.701	26.794	1.200
450	8.306	34.643	26.947	1.264
500	7.614	34.608	27.023	1.321
550	7.045	34.583	27.084	1.376
600	6.620	34.568	27.130	1.428
650	6.281	34.560	27.169	1.478
700	6.028	34.554	27.197	1.526
750	5.705	34.551	27.235	1.574
800	5.343	34.549	27.277	1.619
900	4.857	34.549	27.335	1.705
1000	4.459	34.556	27.384	1.787
1002	4.450	34.555	27.385	1.789



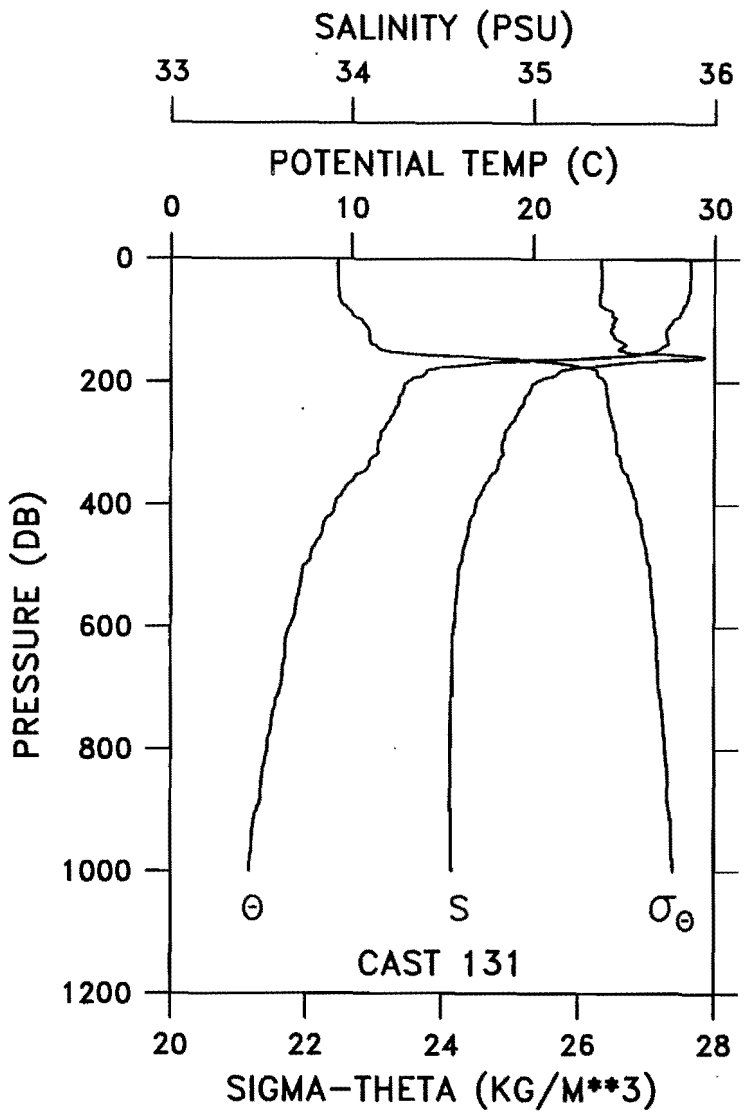
CAST GP3-97-KA-0111 DATE 14 MAY 97 TIME 0117 GMT
LAT 00 00.5N LONG 155 01.6W WEATHER 1 SEA STATE 3
BAROMETER 06 WIND DIR 129 T SPD 03 KT VISIBILITY 7
CLOUD 3 AMOUNT 6 DRY 29.9 WET 26.9 DEPTH 4693 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.784	35.358	22.408	0.000
10	28.626	35.355	22.458	0.054
20	28.490	35.352	22.500	0.108
30	28.467	35.350	22.506	0.161
40	28.451	35.348	22.510	0.215
50	28.415	35.342	22.518	0.268
60	28.330	35.330	22.537	0.321
70	28.139	35.322	22.594	0.374
80	27.942	35.326	22.661	0.427
90	27.839	35.332	22.700	0.479
100	27.913	35.382	22.713	0.531
110	27.572	35.440	22.867	0.582
120	27.404	35.420	22.906	0.632
130	27.136	35.402	22.979	0.681
140	25.021	35.496	23.711	0.729
150	23.327	35.368	24.120	0.770
160	20.037	35.469	25.111	0.804
170	18.221	35.285	25.437	0.831
180	17.300	35.270	25.651	0.856
190	16.809	35.268	25.766	0.879
200	16.491	35.240	25.819	0.901
250	12.431	34.904	26.432	0.995
300	11.643	34.839	26.532	1.076
350	9.890	34.734	26.763	1.148
400	8.895	34.672	26.878	1.213
450	8.132	34.633	26.966	1.273
500	7.577	34.606	27.027	1.329
550	6.818	34.575	27.109	1.383
600	6.527	34.565	27.141	1.435
650	6.308	34.560	27.166	1.485
700	5.875	34.551	27.213	1.533
750	5.583	34.548	27.248	1.580
800	5.384	34.547	27.271	1.625
900	4.877	34.547	27.331	1.710
1000	4.488	34.554	27.379	1.793
1004	4.485	34.554	27.379	1.796



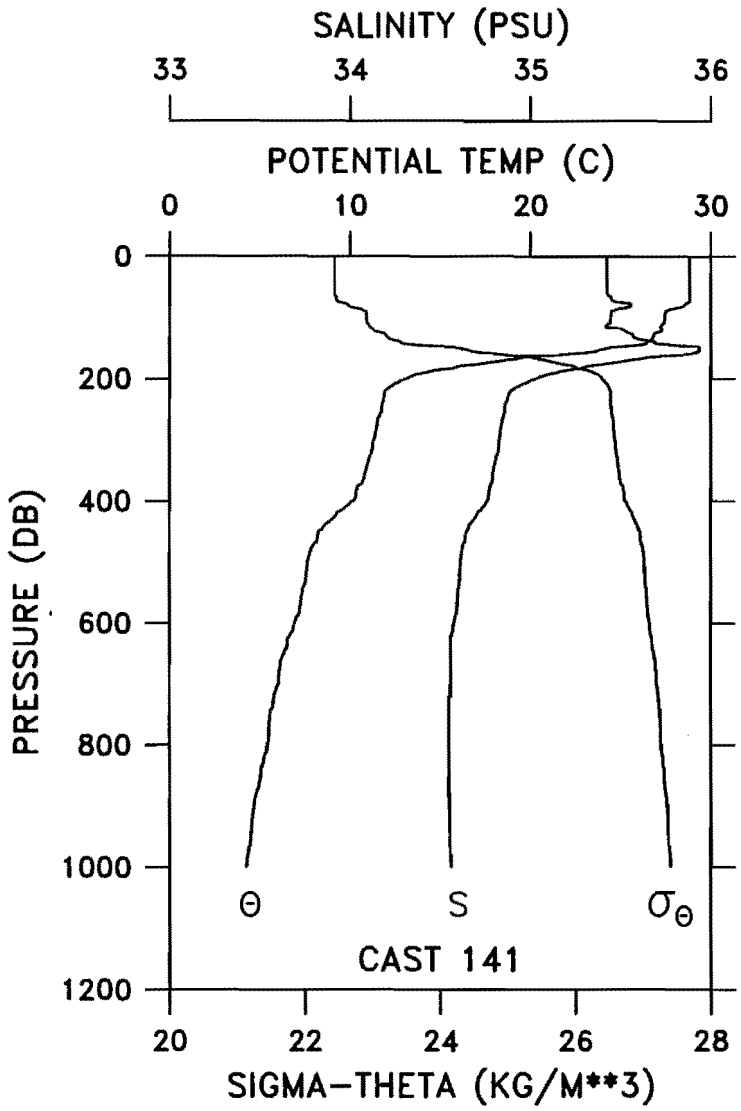
CAST GP3-97-KA-0121 DATE 14 MAY 97 TIME 0541 GMT
LAT 00 29.7S LONG 155 00.7W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 128 T SPD 09 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 26.0 DEPTH 4909 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.660	35.369	22.457	0.000
10	28.658	35.368	22.457	0.054
20	28.654	35.368	22.458	0.108
30	28.538	35.365	22.494	0.161
40	28.512	35.365	22.503	0.215
50	28.502	35.364	22.505	0.268
60	28.486	35.365	22.511	0.322
70	28.460	35.367	22.521	0.375
80	28.325	35.383	22.578	0.429
90	27.943	35.414	22.727	0.481
100	27.623	35.394	22.816	0.532
110	27.473	35.408	22.875	0.582
120	27.405	35.403	22.894	0.633
130	27.240	35.398	22.943	0.682
140	26.928	35.384	23.032	0.732
150	26.267	35.487	23.319	0.780
160	21.694	35.696	24.834	0.820
170	19.399	35.544	25.336	0.849
180	16.791	35.364	25.845	0.874
190	16.009	35.289	25.969	0.895
200	15.671	35.231	26.001	0.915
250	12.747	34.944	26.401	1.007
300	11.734	34.854	26.527	1.088
350	10.244	34.764	26.726	1.164
400	9.043	34.680	26.861	1.229
450	8.192	34.636	26.960	1.290
500	7.706	34.613	27.014	1.347
550	7.220	34.591	27.066	1.403
600	6.903	34.577	27.100	1.456
650	6.386	34.562	27.157	1.507
700	6.204	34.558	27.178	1.557
750	5.681	34.549	27.237	1.605
800	5.493	34.548	27.259	1.650
900	4.935	34.547	27.324	1.737
1000	4.405	34.554	27.389	1.820
1006	4.378	34.555	27.393	1.825



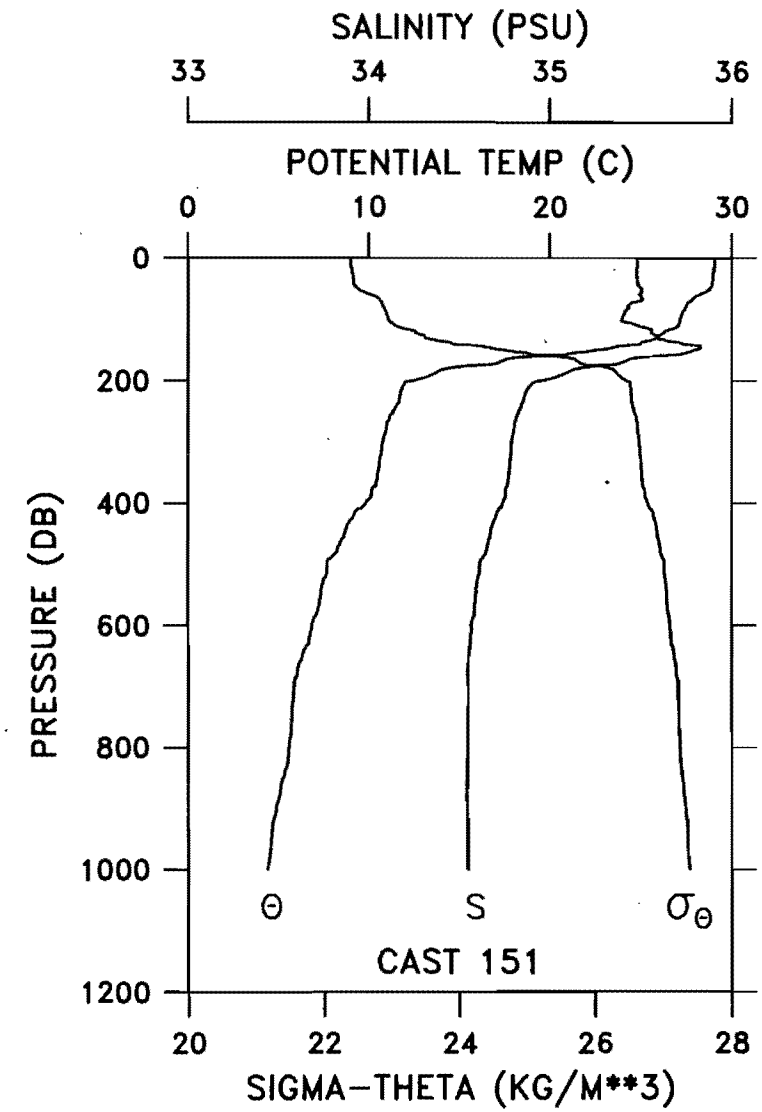
CAST GP3-97-KA-0131 DATE 14 MAY 97 TIME 0943 GMT
LAT 00 59.4S LONG 155 01.0W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 127 T SPD 11 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 26.3 WET 25.3 DEPTH 4755 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.664	35.374	22.460	0.000
10	28.667	35.374	22.458	0.054
20	28.667	35.375	22.459	0.108
30	28.656	35.375	22.463	0.161
40	28.643	35.375	22.467	0.215
50	28.629	35.373	22.470	0.269
60	28.571	35.369	22.487	0.323
70	28.474	35.369	22.518	0.376
80	28.272	35.397	22.606	0.430
90	28.125	35.437	22.684	0.482
100	27.704	35.450	22.832	0.533
110	27.498	35.443	22.894	0.584
120	27.346	35.432	22.934	0.634
130	27.395	35.459	22.938	0.683
140	27.264	35.512	23.021	0.733
150	26.702	35.503	23.194	0.781
160	23.428	35.939	24.523	0.824
170	17.451	35.468	25.766	0.852
180	14.307	35.170	26.254	0.872
190	13.920	35.112	26.292	0.890
200	13.081	35.016	26.389	0.907
250	12.341	34.915	26.458	0.990
300	11.450	34.828	26.559	1.069
350	10.304	34.776	26.725	1.144
400	9.110	34.688	26.857	1.210
450	8.355	34.644	26.941	1.271
500	7.366	34.599	27.052	1.328
550	7.028	34.581	27.085	1.382
600	6.589	34.567	27.134	1.434
650	6.333	34.561	27.163	1.484
700	6.064	34.556	27.194	1.533
750	5.598	34.549	27.247	1.580
800	5.336	34.547	27.277	1.625
900	4.778	34.547	27.342	1.711
1000	4.366	34.557	27.395	1.791
1009	4.337	34.557	27.398	1.798



CAST GP3-97-KA-0141 DATE 14 MAY 97 TIME 1355 GMT
LAT 01 30.0S LONG 155 00.3W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 120 T SPD 14 KT VISIBILITY 7
CLOUD 4 AMOUNT DRY 28.3 WET 25.2 DEPTH 4884 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.823	35.428	22.447	0.000
10	28.829	35.423	22.441	0.054
20	28.834	35.423	22.439	0.108
30	28.832	35.423	22.440	0.162
40	28.828	35.423	22.442	0.216
50	28.831	35.425	22.442	0.270
60	28.830	35.427	22.444	0.324
70	28.807	35.449	22.468	0.378
80	28.511	35.556	22.647	0.431
90	27.484	35.447	22.900	0.483
100	27.457	35.444	22.907	0.532
110	27.315	35.427	22.941	0.582
120	27.302	35.521	23.015	0.632
130	26.818	35.573	23.209	0.680
140	26.458	35.695	23.416	0.726
150	24.189	35.938	24.297	0.767
160	21.750	35.837	24.925	0.802
170	18.403	35.531	25.579	0.829
180	15.904	35.298	26.000	0.851
190	14.063	35.130	26.275	0.870
200	13.027	35.022	26.405	0.888
250	11.742	34.856	26.527	0.967
300	11.294	34.825	26.586	1.044
350	10.862	34.794	26.641	1.119
400	10.065	34.756	26.751	1.190
450	8.247	34.644	26.958	1.254
500	7.652	34.611	27.020	1.311
550	7.350	34.597	27.052	1.367
600	6.906	34.575	27.097	1.421
650	6.324	34.558	27.162	1.472
700	5.993	34.556	27.203	1.520
750	5.538	34.550	27.255	1.567
800	5.385	34.548	27.272	1.612
900	4.676	34.550	27.356	1.697
1000	4.249	34.559	27.409	1.776
1007	4.243	34.559	27.410	1.782

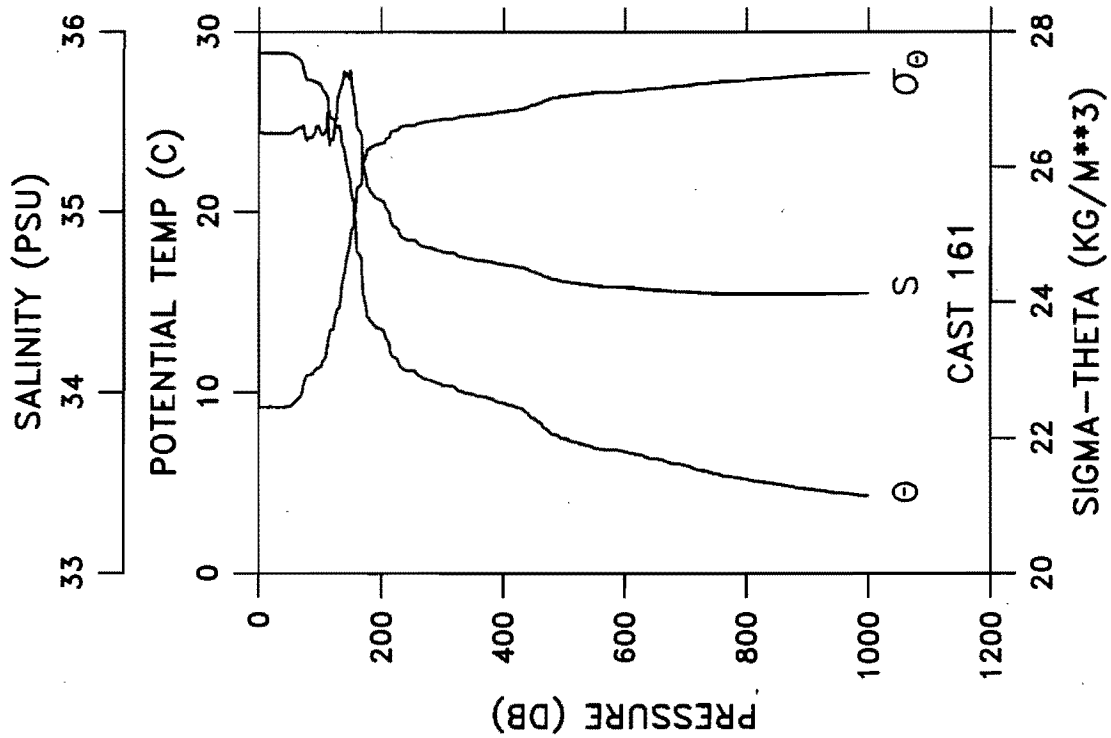


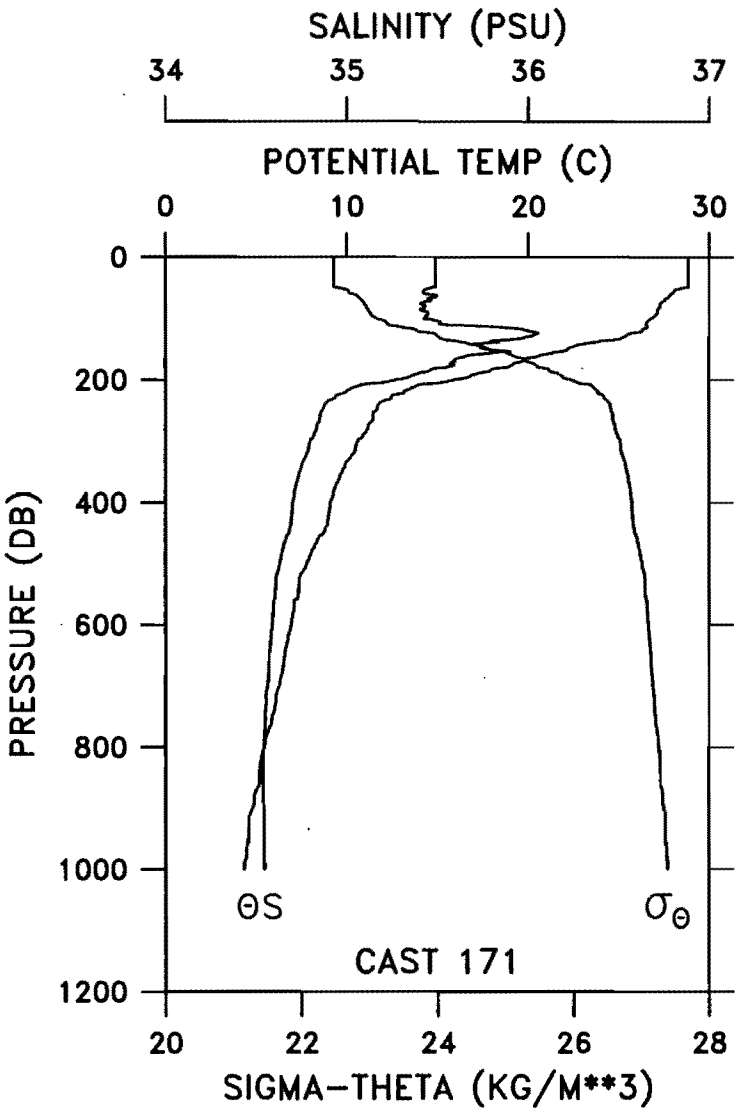
CAST GP3-97-KA-0151 DATE 15 MAY 97 TIME 0404 GMT
LAT 01 59.9S LONG 154 59.8W WEATHER 1 SEA STATE 3
BAROMETER 06 WIND DIR 096 T SPD 11 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 28.7 WET 25.6 DEPTH 4983 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.090	35.483	22.399	0.000
10	29.089	35.485	22.401	0.054
20	29.024	35.481	22.420	0.109
30	28.962	35.481	22.440	0.163
40	28.948	35.484	22.447	0.217
50	28.803	35.505	22.511	0.271
60	28.203	35.496	22.703	0.323
70	27.789	35.495	22.838	0.374
80	27.490	35.436	22.890	0.424
90	27.303	35.411	22.933	0.474
100	27.187	35.398	22.960	0.524
110	27.097	35.487	23.056	0.573
120	26.347	35.561	23.350	0.620
130	25.943	35.593	23.501	0.665
140	24.993	35.734	23.900	0.707
150	22.521	35.792	24.674	0.743
160	19.079	35.559	25.429	0.774
170	17.238	35.399	25.764	0.797
180	14.358	35.157	26.233	0.818
190	13.513	35.067	26.341	0.835
200	12.442	34.949	26.464	0.852
250	11.355	34.829	26.578	0.930
300	10.769	34.789	26.653	1.003
350	10.509	34.775	26.688	1.075
400	9.830	34.740	26.779	1.145
450	8.642	34.672	26.918	1.208
500	7.684	34.614	27.017	1.267
550	7.306	34.591	27.054	1.322
600	6.822	34.566	27.102	1.376
650	6.280	34.553	27.164	1.427
700	5.837	34.551	27.219	1.475
750	5.711	34.550	27.234	1.522
800	5.560	34.548	27.251	1.568
900	4.826	34.544	27.334	1.657
1000	4.376	34.552	27.390	1.738
1005	4.362	34.552	27.391	1.742

CAST GP3-97-KA-0161 DATE 15 MAY 97 TIME 1115 GMT
LAT 03 00.2S LONG 154 53.8W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 098 T SPD 15 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 27.8 WET 25.7 DEPTH 4909 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.829	35.441	22.455	0.000
10	28.828	35.438	22.452	0.054
20	28.821	35.439	22.455	0.108
30	28.828	35.438	22.453	0.162
40	28.822	35.438	22.455	0.216
50	28.784	35.439	22.468	0.269
60	28.625	35.458	22.535	0.323
70	28.259	35.467	22.663	0.376
80	27.342	35.411	22.919	0.427
90	27.259	35.437	22.966	0.476
100	27.061	35.447	23.037	0.525
110	26.447	35.455	23.238	0.573
120	25.188	35.399	23.587	0.617
130	24.782	35.651	23.902	0.659
140	23.189	35.759	24.456	0.697
150	21.128	35.748	25.030	0.730
160	17.841	35.470	25.673	0.757
170	15.404	35.257	26.081	0.780
180	14.095	35.124	26.263	0.798
190	13.618	35.077	26.327	0.816
200	13.460	35.061	26.347	0.833
250	11.189	34.842	26.619	0.911
300	10.388	34.776	26.711	0.982
350	9.893	34.736	26.764	1.051
400	9.423	34.708	26.821	1.118
450	8.593	34.667	26.922	1.181
500	7.484	34.613	27.046	1.238
550	6.949	34.589	27.103	1.292
600	6.739	34.579	27.123	1.344
650	6.357	34.566	27.164	1.394
700	5.961	34.556	27.207	1.443
750	5.505	34.547	27.257	1.489
800	5.212	34.544	27.289	1.533
900	4.655	34.545	27.354	1.618
1000	4.294	34.549	27.397	1.697
1003	4.273	34.550	27.399	1.700



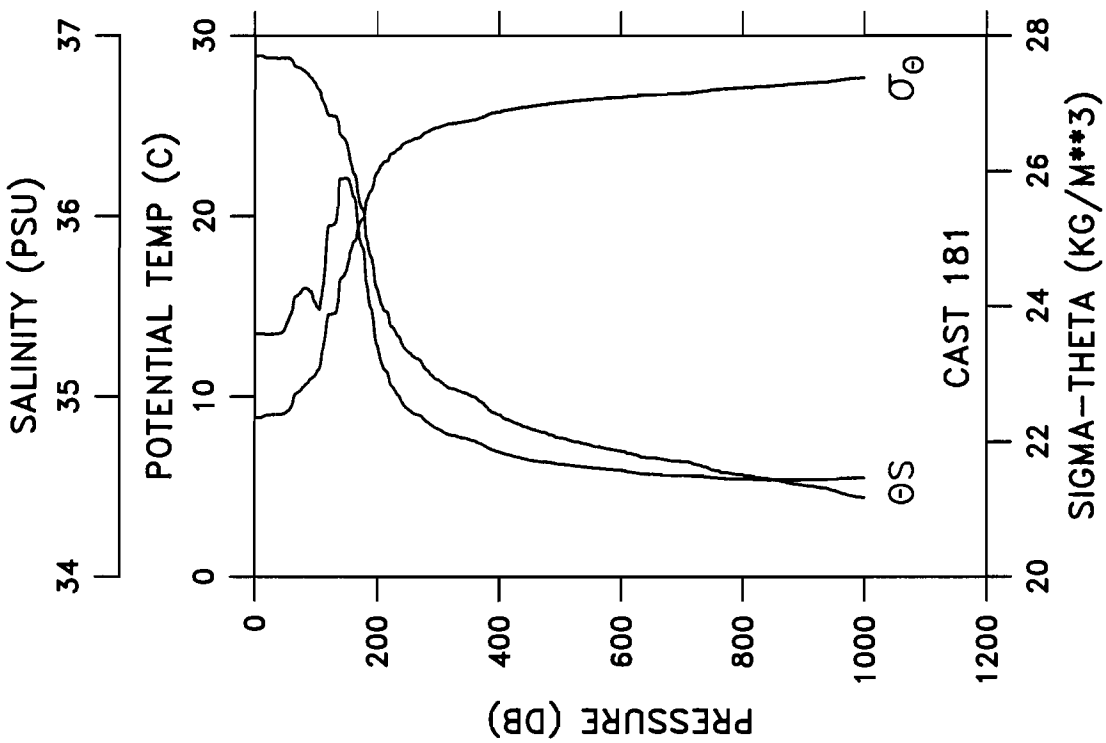


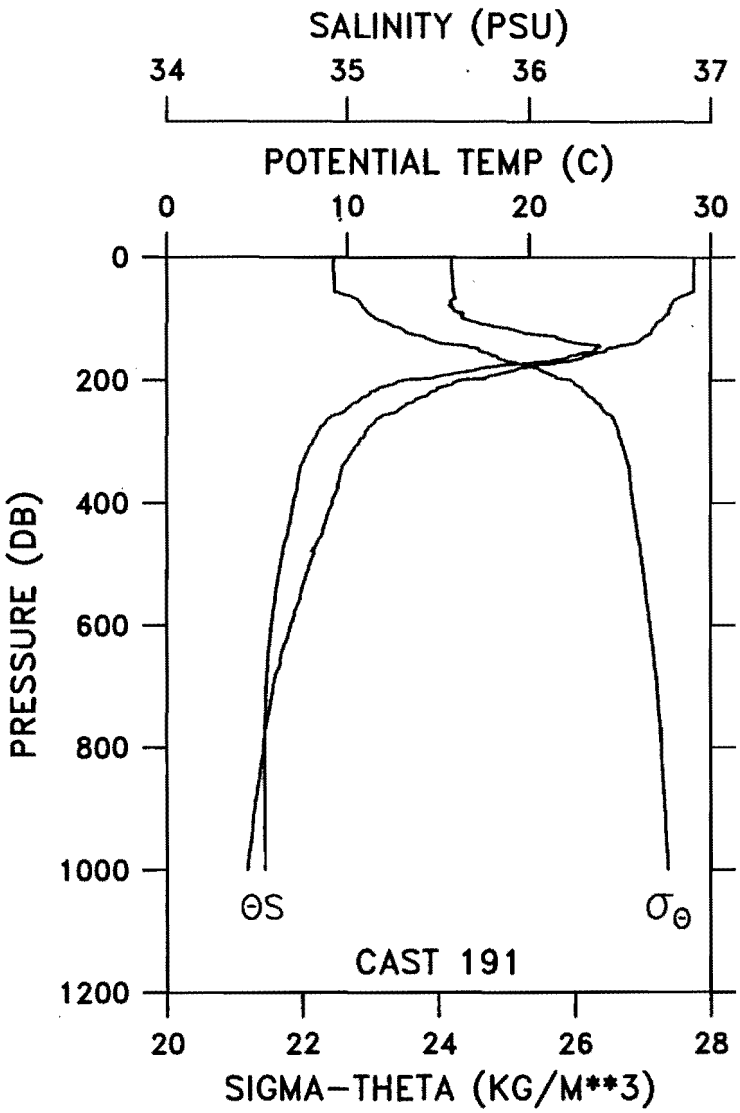
CAST GP3-97-KA-0171 DATE 15 MAY 97 TIME 1753 GMT
LAT 03 59.7S LONG 154 47.8W WEATHER SEA STATE 3
BAROMETER 08 WIND DIR 021 T SPD 06 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 29.4 WET 25.6 DEPTH 3605 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.858	35.486	22.479	0.000
10	28.858	35.487	22.480	0.054
20	28.860	35.488	22.480	0.107
30	28.860	35.489	22.480	0.161
40	28.860	35.489	22.480	0.214
50	28.547	35.458	22.561	0.268
60	27.855	35.445	22.779	0.320
70	27.540	35.461	22.893	0.370
80	27.284	35.431	22.953	0.420
90	27.149	35.447	23.009	0.469
100	26.782	35.425	23.110	0.518
110	26.510	35.551	23.291	0.565
120	26.285	36.001	23.701	0.609
130	25.187	35.979	24.026	0.649
140	23.164	35.736	24.446	0.687
150	22.170	35.764	24.752	0.720
160	20.612	35.666	25.108	0.751
170	19.576	35.593	25.327	0.778
180	18.451	35.511	25.552	0.804
190	17.137	35.384	25.778	0.828
200	15.861	35.262	25.982	0.850
250	11.602	34.866	26.561	0.935
300	10.614	34.799	26.689	1.009
350	9.751	34.740	26.792	1.077
400	9.122	34.702	26.865	1.142
450	8.720	34.679	26.911	1.204
500	7.800	34.629	27.013	1.263
550	7.333	34.606	27.062	1.317
600	6.928	34.589	27.105	1.370
650	6.587	34.575	27.140	1.422
700	6.274	34.563	27.172	1.472
750	5.887	34.552	27.213	1.521
800	5.452	34.543	27.260	1.567
900	4.798	34.539	27.333	1.655
1000	4.346	34.547	27.389	1.735
1005	4.340	34.547	27.390	1.739

CAST GP3-97-KA-0181 DATE 16 MAY 97 TIME 0040 GMT
LAT 04 56.6S LONG 154 59.9W WEATHER 1 SEA STATE 3
BAROMETER 05 WIND DIR 111 T SPD 09 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 28.9 WET 25.6 DEPTH 4632 M

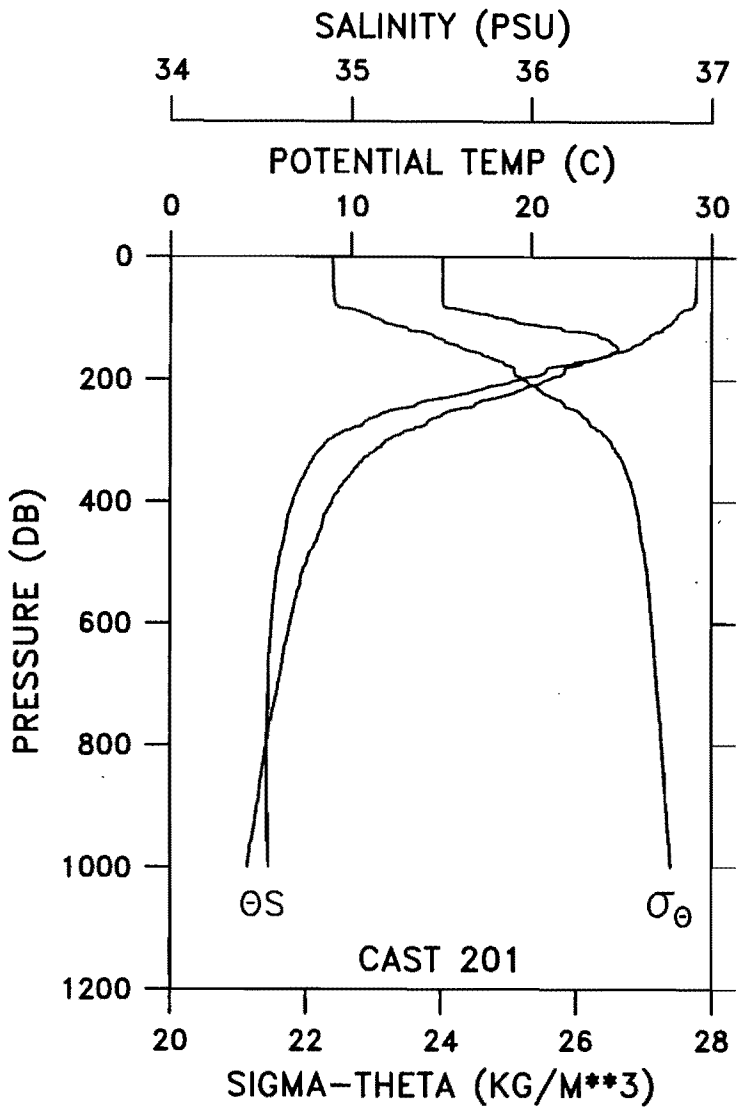
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.895	35.347	22.362	0.000
10	28.901	35.347	22.360	0.055
20	28.779	35.344	22.398	0.109
30	28.767	35.346	22.404	0.164
40	28.760	35.348	22.408	0.218
50	28.766	35.383	22.432	0.272
60	28.651	35.463	22.531	0.326
70	28.279	35.560	22.727	0.378
80	28.095	35.599	22.816	0.430
90	27.740	35.583	22.920	0.480
100	27.293	35.505	23.007	0.529
110	26.429	35.582	23.339	0.577
120	25.598	35.946	23.875	0.620
130	25.562	35.957	23.894	0.661
140	24.519	36.205	24.400	0.700
150	24.055	36.212	24.545	0.735
160	22.449	36.109	24.935	0.768
170	20.934	35.890	25.191	0.797
180	19.437	35.700	25.445	0.825
190	17.727	35.487	25.713	0.849
200	15.942	35.282	25.979	0.871
250	12.494	34.933	26.442	0.963
300	10.930	34.823	26.650	1.040
350	10.116	34.765	26.749	1.110
400	9.002	34.694	26.879	1.175
450	8.258	34.648	26.959	1.236
500	7.728	34.625	27.020	1.293
550	7.323	34.606	27.063	1.348
600	6.995	34.590	27.097	1.401
650	6.612	34.568	27.132	1.453
700	6.405	34.562	27.154	1.504
750	5.916	34.549	27.207	1.554
800	5.649	34.541	27.234	1.601
900	5.067	34.538	27.301	1.691
1000	4.377	34.548	27.387	1.775
1006	4.327	34.549	27.393	1.780





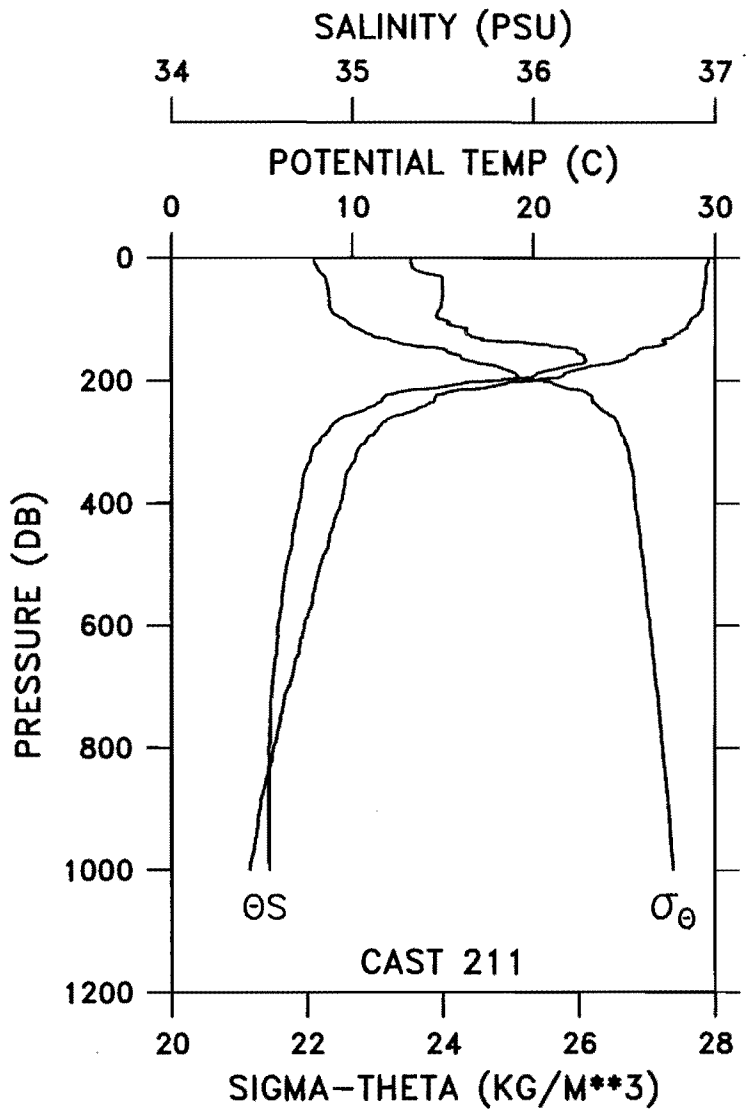
CAST GP3-97-KA-0191 DATE 16 MAY 97 TIME 0818 GMT
LAT 05 59.4S LONG 154 58.3W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 098 T SPD 10 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 25.5 DEPTH 5001 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.093	35.574	22.466	0.000
10	29.097	35.572	22.464	0.054
20	29.097	35.574	22.465	0.107
30	29.074	35.577	22.475	0.161
40	29.066	35.578	22.479	0.215
50	29.061	35.580	22.482	0.269
60	28.700	35.588	22.608	0.322
70	27.963	35.567	22.836	0.373
80	27.798	35.577	22.897	0.424
90	27.709	35.634	22.969	0.473
100	27.351	35.651	23.098	0.522
110	26.985	35.781	23.313	0.569
120	26.740	35.943	23.514	0.614
130	26.296	36.151	23.811	0.657
140	25.719	36.286	24.094	0.697
150	24.238	36.360	24.602	0.733
160	23.046	36.225	24.852	0.766
170	21.736	36.048	25.090	0.797
180	19.485	35.736	25.460	0.824
190	18.306	35.563	25.629	0.849
200	16.131	35.306	25.954	0.872
250	12.781	34.987	26.427	0.966
300	10.670	34.809	26.687	1.040
350	9.644	34.734	26.805	1.108
400	9.176	34.700	26.855	1.173
450	8.622	34.668	26.919	1.235
500	7.931	34.629	26.993	1.294
550	7.397	34.600	27.048	1.350
600	6.834	34.577	27.108	1.403
650	6.305	34.558	27.164	1.454
700	5.864	34.548	27.213	1.503
750	5.572	34.543	27.245	1.549
800	5.327	34.541	27.273	1.594
900	4.859	34.541	27.328	1.681
1000	4.462	34.545	27.375	1.764
1005	4.439	34.545	27.378	1.768



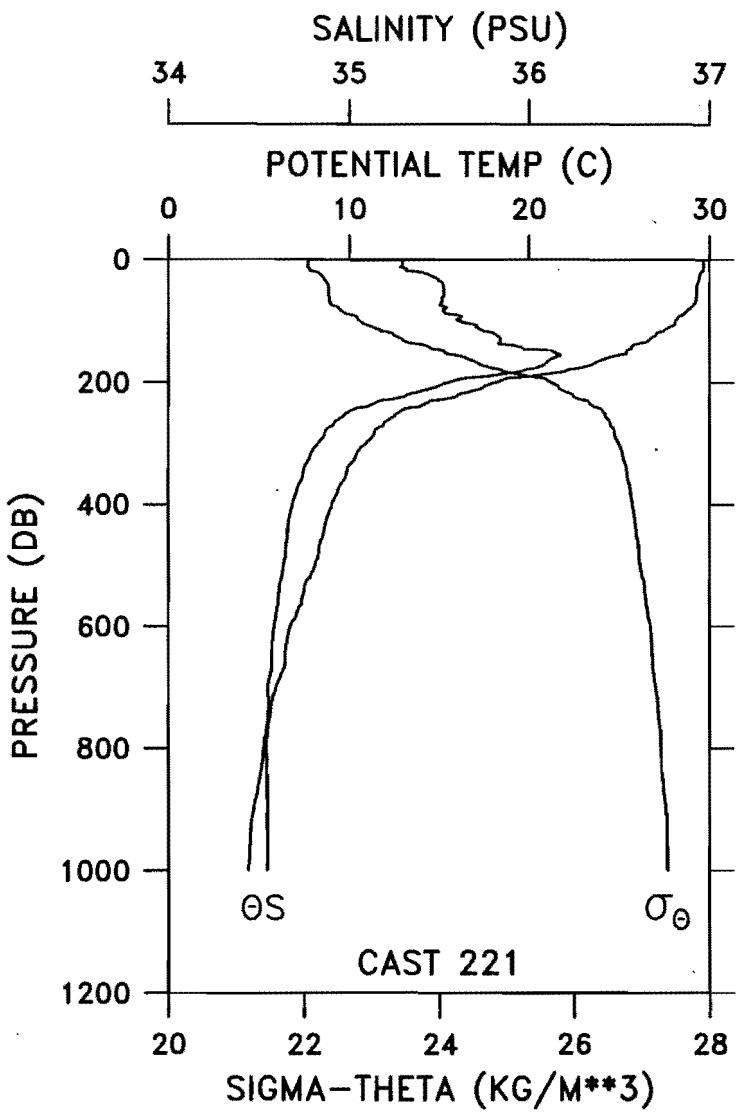
CAST GP3-97-KA-0201 DATE 17 MAY 97 TIME 0802 GMT
LAT 08 16.4S LONG 154 58.9W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 102 T SPD 08 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 29.4 WET 26.0 DEPTH 5336 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.166	35.510	22.393	0.000
10	29.165	35.508	22.393	0.054
20	29.162	35.509	22.394	0.109
30	29.164	35.509	22.394	0.163
40	29.163	35.509	22.394	0.218
50	29.126	35.508	22.406	0.272
60	29.109	35.509	22.412	0.327
70	29.096	35.509	22.417	0.381
80	28.989	35.515	22.457	0.436
90	28.233	35.672	22.826	0.488
100	27.994	35.858	23.044	0.538
110	27.639	36.017	23.280	0.585
120	27.246	36.195	23.541	0.630
130	26.557	36.380	23.901	0.672
140	26.072	36.448	24.106	0.711
150	25.410	36.481	24.337	0.749
160	24.366	36.428	24.615	0.784
170	23.040	36.270	24.887	0.816
180	21.910	36.096	25.078	0.847
190	21.776	36.065	25.092	0.876
200	20.940	35.932	25.222	0.905
250	15.586	35.221	26.012	1.029
300	11.906	34.869	26.505	1.120
350	10.114	34.752	26.739	1.194
400	8.940	34.678	26.876	1.260
450	8.245	34.637	26.952	1.320
500	7.562	34.600	27.024	1.377
550	7.006	34.575	27.083	1.431
600	6.643	34.560	27.121	1.484
650	6.261	34.547	27.162	1.534
700	5.968	34.543	27.196	1.583
750	5.622	34.537	27.234	1.631
800	5.312	34.534	27.269	1.676
900	4.784	34.536	27.332	1.763
1000	4.272	34.544	27.395	1.843
1008	4.227	34.544	27.400	1.850



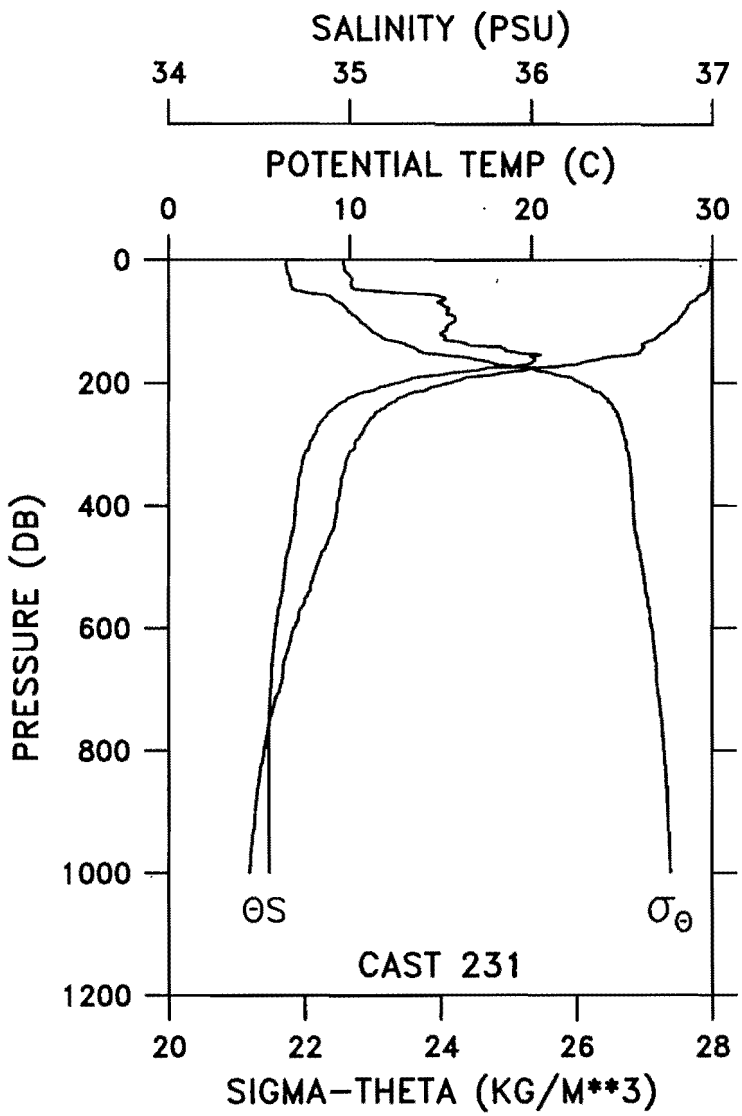
CAST GP3-97-KA-0211 DATE 21 MAY 97 TIME 0738 GMT
LAT 04 59.0S LONG 169 59.0W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 241 T SPD 04 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 26.0 DEPTH 5351 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.610	35.325	22.105	0.000
10	29.559	35.327	22.124	0.057
20	29.478	35.355	22.173	0.114
30	29.526	35.490	22.257	0.170
40	29.448	35.496	22.288	0.226
50	29.397	35.499	22.308	0.281
60	29.352	35.499	22.323	0.337
70	29.325	35.494	22.329	0.392
80	29.294	35.490	22.336	0.447
90	29.094	35.469	22.387	0.502
100	28.675	35.495	22.547	0.557
110	28.483	35.550	22.651	0.609
120	28.067	35.629	22.848	0.661
130	27.552	35.692	23.063	0.711
140	27.231	36.022	23.416	0.757
150	25.732	36.239	24.054	0.799
160	25.171	36.281	24.259	0.838
170	24.420	36.283	24.489	0.874
180	22.673	36.130	24.887	0.907
190	21.668	36.014	25.083	0.937
200	19.577	35.752	25.448	0.966
250	13.286	35.051	26.375	1.066
300	10.748	34.819	26.680	1.142
350	9.719	34.736	26.794	1.210
400	9.356	34.707	26.831	1.276
450	8.777	34.671	26.896	1.339
500	8.255	34.639	26.952	1.400
550	7.836	34.613	26.994	1.459
600	7.345	34.589	27.047	1.516
650	6.980	34.579	27.090	1.570
700	6.482	34.557	27.140	1.623
750	6.025	34.547	27.192	1.672
800	5.635	34.539	27.234	1.720
900	4.899	34.539	27.322	1.810
1000	4.332	34.544	27.388	1.892
1004	4.321	34.544	27.389	1.895



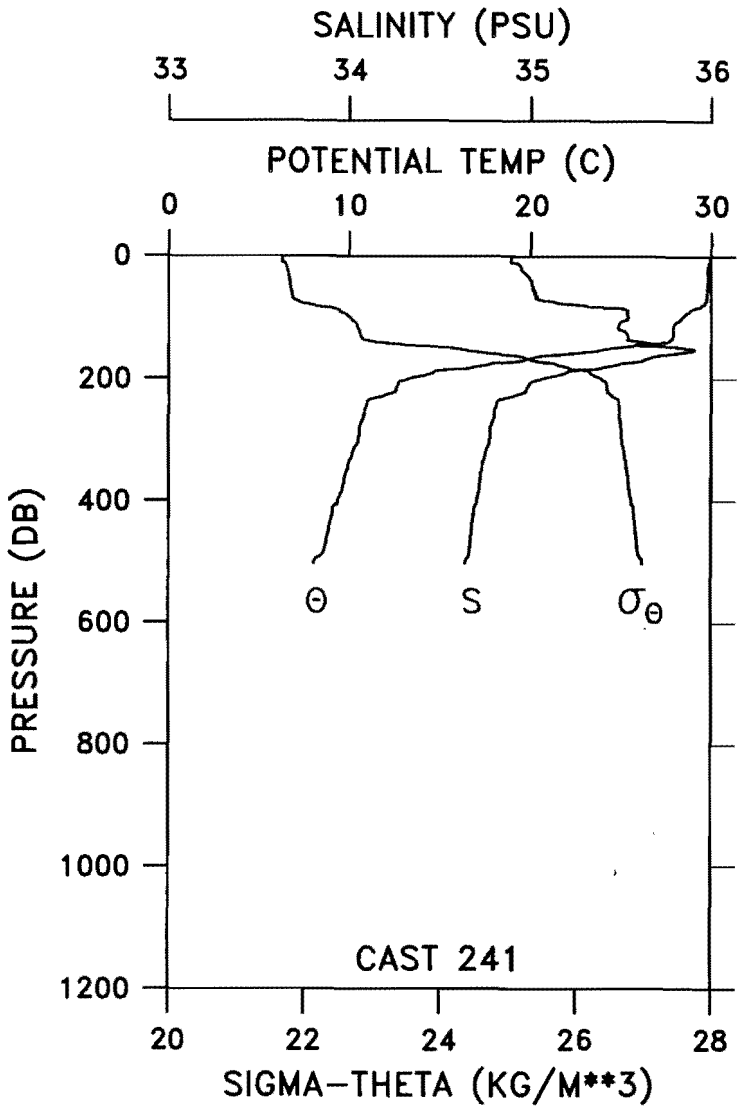
CAST GP3-97-KA-0221 DATE 21 MAY 97 TIME 1445 GMT
LAT 03 59.8S LONG 170 01.2W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 194 T SPD 04 KT VISIBILITY 7
CLOUD 2 AMOUNT DRY 27.5 WET 25.5 DEPTH 5695 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.678	35.298	22.061	0.000
10	29.675	35.295	22.060	0.058
20	29.525	35.406	22.195	0.115
30	29.417	35.483	22.289	0.171
40	29.305	35.519	22.354	0.226
50	29.286	35.525	22.364	0.281
60	29.272	35.524	22.368	0.336
70	29.202	35.512	22.383	0.391
80	28.858	35.532	22.514	0.445
90	28.459	35.601	22.698	0.498
100	28.110	35.621	22.828	0.549
110	27.735	35.706	23.014	0.599
120	27.058	35.809	23.311	0.647
130	26.668	35.841	23.459	0.692
140	25.749	35.929	23.815	0.736
150	25.395	36.138	24.082	0.776
160	24.331	36.133	24.402	0.813
170	23.554	36.085	24.597	0.848
180	22.122	35.974	24.925	0.881
190	19.959	35.760	25.353	0.910
200	18.123	35.550	25.664	0.935
250	12.657	34.985	26.450	1.035
300	10.900	34.826	26.659	1.112
350	9.833	34.745	26.781	1.181
400	9.043	34.685	26.865	1.245
450	8.557	34.659	26.921	1.307
500	8.096	34.638	26.976	1.366
550	7.411	34.609	27.054	1.423
600	6.748	34.584	27.125	1.476
650	6.468	34.572	27.154	1.526
700	5.945	34.552	27.206	1.576
750	5.596	34.552	27.249	1.622
800	5.272	34.541	27.280	1.667
900	4.721	34.548	27.349	1.753
1000	4.403	34.549	27.384	1.833
1006	4.389	34.549	27.386	1.838



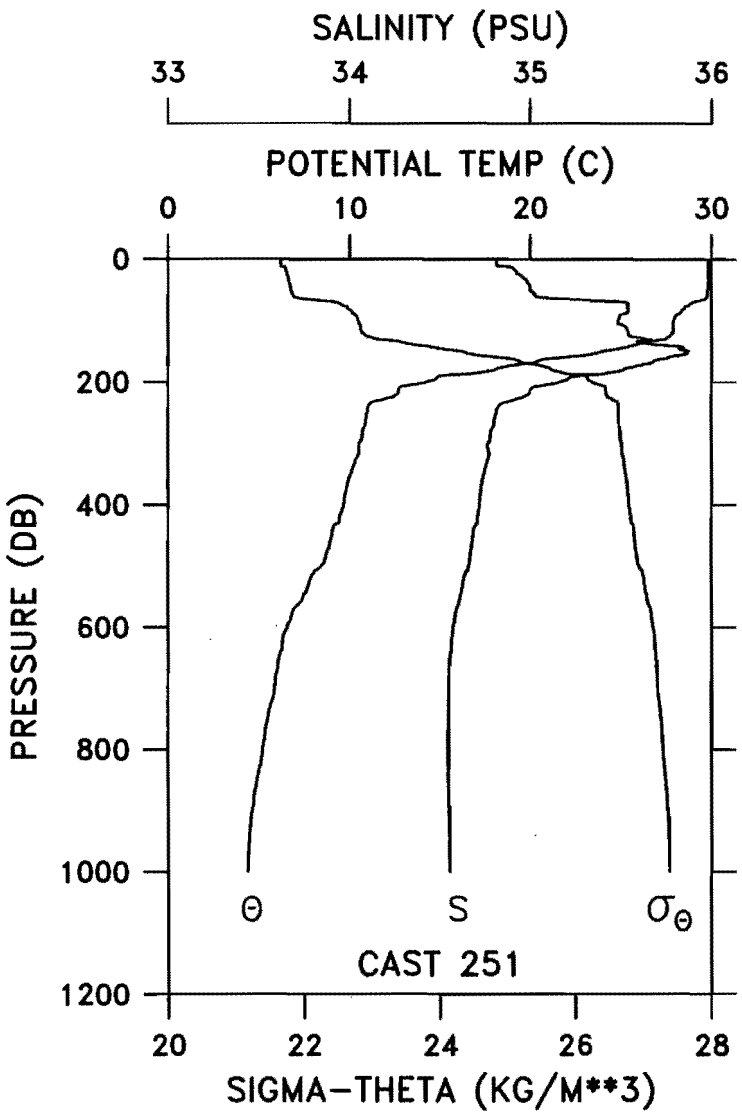
CAST GP3-97-KA-0231 DATE 21 MAY 97 TIME 2110 GMT
LAT 03 00.0S LONG 169 59.7W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 149 T SPD 04 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 29.5 WET 26.3 DEPTH 5279 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.914	34.967	21.733	0.000
10	29.907	34.969	21.737	0.061
20	29.892	34.979	21.750	0.121
30	29.852	35.012	21.788	0.182
40	29.804	35.008	21.801	0.242
50	29.715	35.109	21.908	0.302
60	29.169	35.504	22.388	0.359
70	28.741	35.497	22.526	0.413
80	28.546	35.543	22.625	0.466
90	28.308	35.566	22.722	0.518
100	28.034	35.578	22.821	0.569
110	27.558	35.529	22.938	0.619
120	27.102	35.501	23.064	0.669
130	26.673	35.521	23.216	0.716
140	26.185	35.760	23.551	0.762
150	25.995	35.919	23.731	0.805
160	23.866	36.019	24.454	0.843
170	22.387	35.973	24.849	0.877
180	19.433	35.675	25.427	0.905
190	16.611	35.385	25.903	0.929
200	15.465	35.262	26.072	0.950
250	11.386	34.877	26.609	1.034
300	10.289	34.778	26.729	1.105
350	9.617	34.724	26.801	1.172
400	9.281	34.699	26.837	1.237
450	8.865	34.676	26.886	1.301
500	8.163	34.642	26.968	1.361
550	7.534	34.617	27.042	1.419
600	6.892	34.589	27.110	1.472
650	6.436	34.572	27.158	1.523
700	6.106	34.562	27.193	1.573
750	5.556	34.553	27.255	1.619
800	5.244	34.549	27.289	1.664
900	4.769	34.549	27.344	1.749
1000	4.439	34.553	27.384	1.830
1005	4.418	34.553	27.386	1.834



CAST GP3-97-KA-0241 DATE 22 MAY 97 TIME 0643 GMT
LAT 02 12.0S LONG 170 01.6W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 174 T SPD 06 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 29.2 WET 27.0 DEPTH 4724 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.917	34.894	21.677	0.000
10	29.915	34.891	21.676	0.061
20	29.820	34.946	21.750	0.122
30	29.826	34.977	21.771	0.183
40	29.826	35.005	21.791	0.243
50	29.819	35.016	21.802	0.303
60	29.786	35.025	21.820	0.363
70	29.749	35.045	21.848	0.423
80	29.434	35.304	22.149	0.482
90	28.799	35.539	22.538	0.537
100	28.352	35.541	22.688	0.590
110	27.967	35.493	22.778	0.641
120	27.885	35.503	22.813	0.692
130	27.874	35.540	22.844	0.743
140	27.433	35.649	23.069	0.793
150	24.346	35.891	24.215	0.837
160	21.644	35.749	24.888	0.872
170	19.556	35.621	25.353	0.900
180	16.931	35.409	25.845	0.924
190	14.618	35.192	26.204	0.944
200	13.238	35.053	26.387	0.962
250	10.838	34.799	26.649	1.039
300	10.507	34.774	26.688	1.110
350	9.877	34.731	26.763	1.180
400	9.390	34.705	26.824	1.246
450	8.857	34.673	26.886	1.310
500	8.059	34.640	26.982	1.371
503	8.040	34.637	26.983	1.374

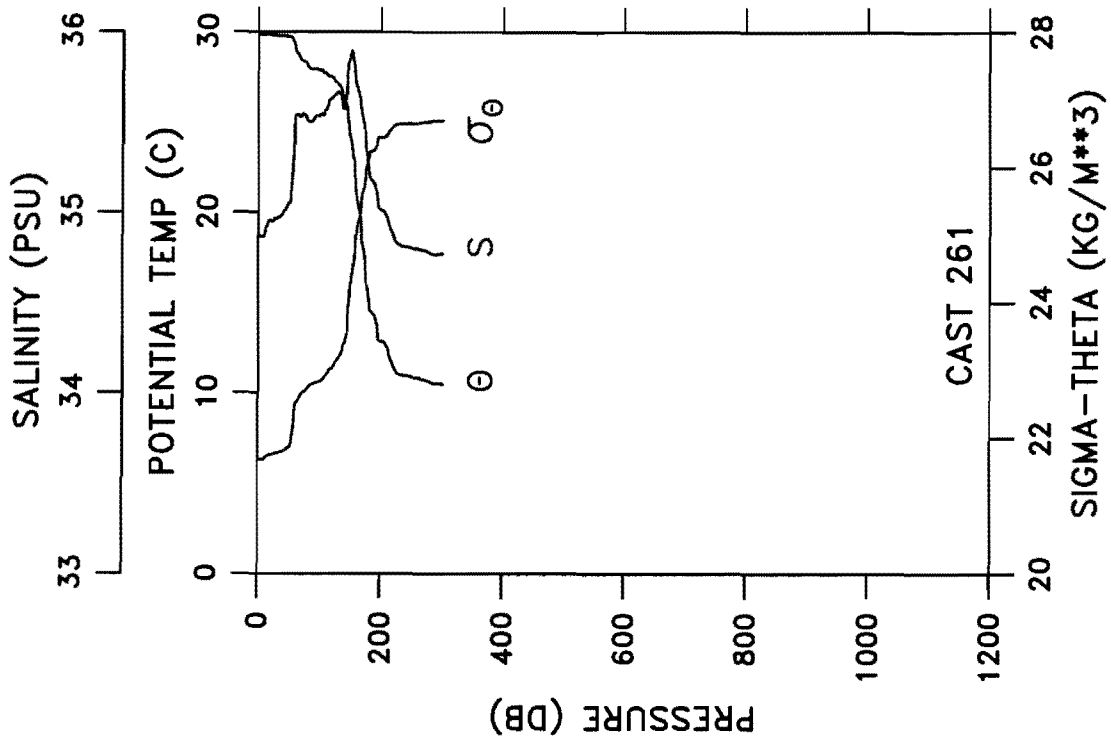


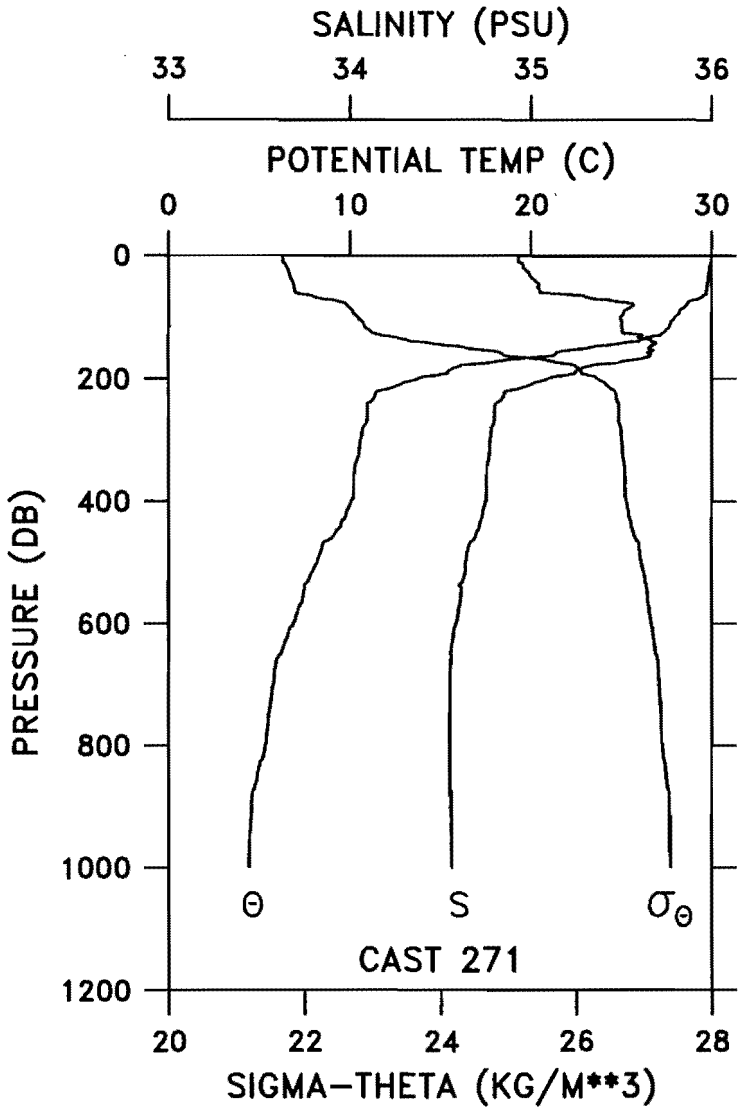
CAST GP3-97-KA-0251 DATE 22 MAY 97 TIME 1543 GMT
LAT 02 08.2S LONG 170 01.7W WEATHER 1 SEA STATE 2
BAROMETER 06 WIND DIR 003 T SPD 06 KT VISIBILITY 7
CLOUD 1 AMOUNT DRY 27.4 WET 26.1 DEPTH 4886 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.819	34.816	21.652	0.000
10	29.817	34.813	21.651	0.061
20	29.811	34.923	21.735	0.122
30	29.821	34.961	21.760	0.183
40	29.824	34.993	21.784	0.244
50	29.784	35.000	21.802	0.304
60	29.756	35.033	21.836	0.364
70	28.990	35.529	22.467	0.422
80	28.496	35.538	22.639	0.475
90	28.091	35.504	22.746	0.527
100	27.915	35.485	22.790	0.578
110	27.885	35.525	22.830	0.629
120	27.853	35.543	22.853	0.679
130	27.379	35.663	23.098	0.729
140	25.620	35.769	23.734	0.774
150	23.915	35.874	24.330	0.814
160	21.603	35.760	24.908	0.848
170	19.580	35.634	25.357	0.877
180	18.016	35.510	25.660	0.902
190	14.974	35.249	26.170	0.923
200	14.234	35.158	26.260	0.942
250	10.958	34.811	26.636	1.020
300	10.512	34.764	26.679	1.092
350	10.054	34.741	26.741	1.162
400	9.676	34.719	26.787	1.230
450	9.023	34.683	26.866	1.295
500	8.428	34.658	26.940	1.357
550	7.443	34.612	27.051	1.414
600	6.551	34.573	27.144	1.466
650	6.098	34.556	27.189	1.515
700	5.846	34.551	27.218	1.563
750	5.471	34.548	27.262	1.609
800	5.193	34.546	27.293	1.653
900	4.607	34.552	27.365	1.737
1000	4.391	34.556	27.392	1.816
1500	2.835	34.606	27.585	2.170
2000	2.071	34.645	27.682	2.446
2500	1.724	34.661	27.722	2.692
3000	1.474	34.674	27.751	2.927
3500	1.252	34.687	27.776	3.152
4000	1.086	34.696	27.796	3.367
4006	1.085	34.696	27.796	3.370

CAST GP3-97-KA-0261 DATE 22 MAY 97 TIME 2147 GMT
LAT 02 09.3S LONG 170 01.6W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 068 T SPD 12 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 29.8 WET 26.5 DEPTH 4909 M

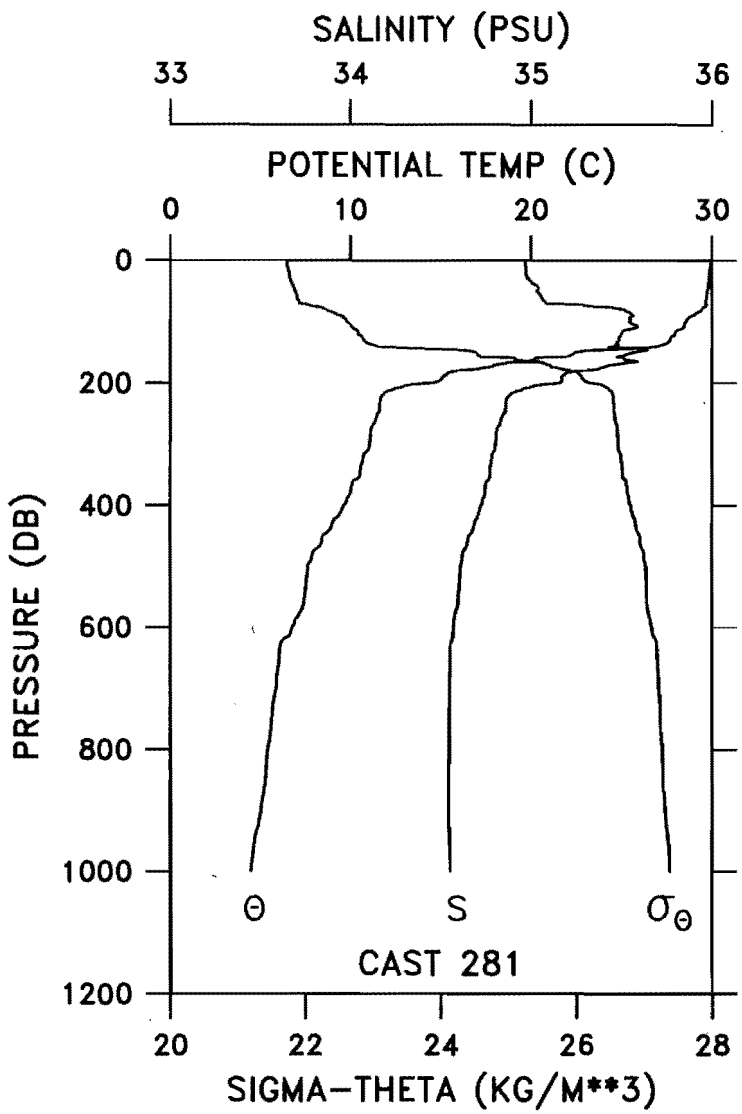
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.844	34.868	21.683	0.000
10	29.842	34.865	21.682	0.061
20	29.844	34.956	21.749	0.122
30	29.784	34.966	21.777	0.183
40	29.759	34.991	21.804	0.243
50	29.726	35.052	21.861	0.303
60	29.111	35.498	22.403	0.361
70	28.440	35.528	22.649	0.414
80	28.149	35.511	22.732	0.466
90	27.930	35.509	22.803	0.517
100	27.904	35.533	22.829	0.568
110	27.718	35.569	22.917	0.618
120	27.522	35.629	23.026	0.668
130	27.156	35.666	23.172	0.716
140	26.266	35.572	23.384	0.762
150	24.230	35.873	24.236	0.805
160	21.100	35.719	25.015	0.839
170	18.276	35.538	25.617	0.867
180	15.223	35.257	26.122	0.889
190	14.263	35.155	26.252	0.907
200	12.832	35.013	26.437	0.924
250	10.888	34.804	26.643	1.000
300	10.512	34.773	26.686	1.071
302	10.494	34.772	26.689	1.074





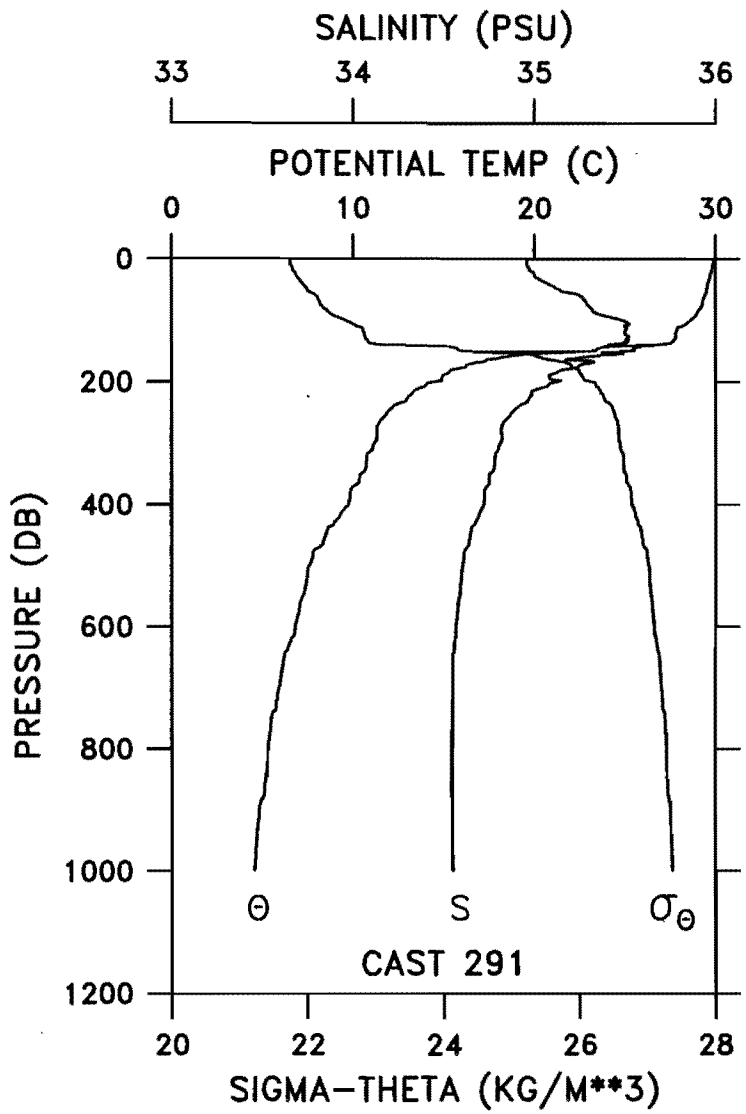
CAST GP3-97-KA-0271 DATE 23 MAY 97 TIME 0219 GMT
LAT 01 29.4S LONG 169 56.5W WEATHER 1 SEA STATE 2
BAROMETER 06 WIND DIR 183 T SPD 03 KT VISIBILITY 7
CLOUD 5 AMOUNT 7 DRY 29.8 WET 27.4 DEPTH 5047 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.998	34.933	21.679	0.000
10	29.995	34.930	21.678	0.061
20	29.866	34.959	21.744	0.122
30	29.823	34.991	21.782	0.183
40	29.806	35.021	21.810	0.243
50	29.740	35.038	21.846	0.303
60	29.710	35.053	21.867	0.363
70	29.261	35.344	22.237	0.420
80	28.602	35.567	22.625	0.474
90	28.231	35.516	22.709	0.526
100	27.961	35.494	22.781	0.578
110	27.720	35.502	22.866	0.628
120	27.486	35.509	22.947	0.679
130	26.985	35.607	23.182	0.727
140	25.482	35.682	23.711	0.773
150	23.209	35.654	24.371	0.812
160	21.324	35.662	24.911	0.844
170	18.572	35.547	25.549	0.873
180	15.988	35.315	25.994	0.895
190	15.387	35.244	26.075	0.915
200	13.737	35.093	26.314	0.934
250	10.948	34.798	26.628	1.011
300	10.581	34.771	26.673	1.084
350	10.246	34.755	26.718	1.154
400	10.061	34.747	26.745	1.224
450	9.224	34.699	26.847	1.291
500	8.179	34.637	26.962	1.352
550	7.452	34.613	27.050	1.409
600	6.878	34.584	27.108	1.463
650	6.214	34.555	27.174	1.513
700	5.791	34.553	27.226	1.560
750	5.513	34.550	27.258	1.606
800	5.345	34.549	27.278	1.651
900	4.572	34.556	27.372	1.735
1000	4.429	34.562	27.392	1.814
1010	4.421	34.561	27.392	1.822



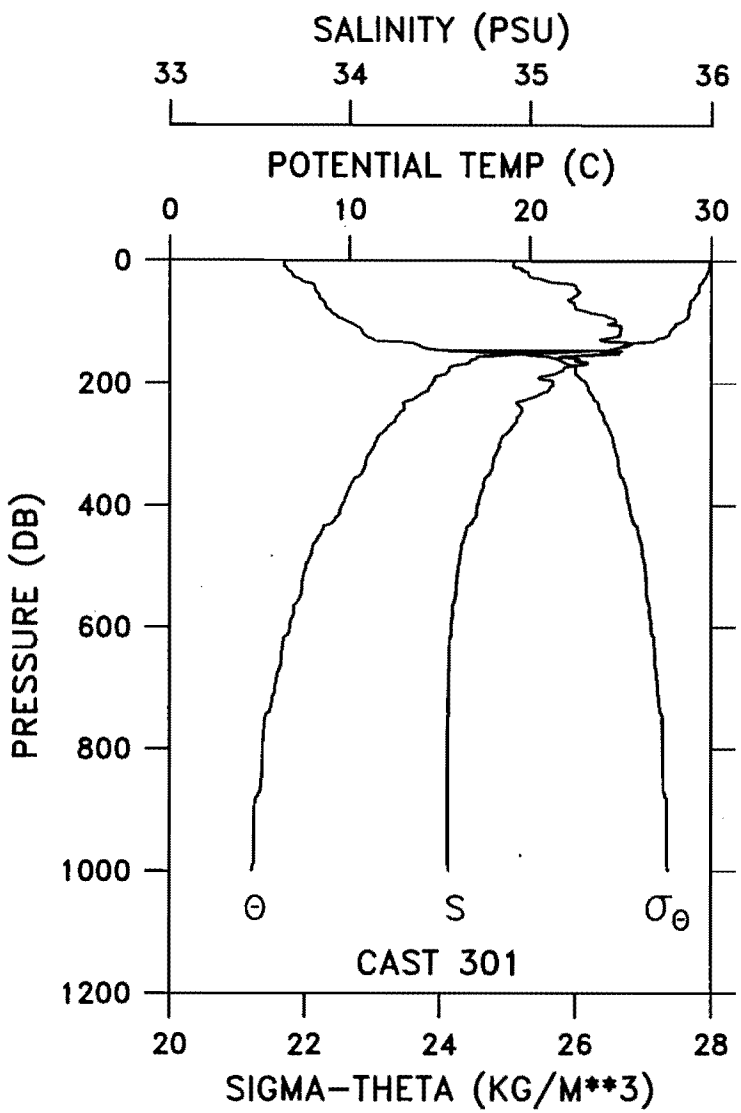
CAST GP3-97-KA-0281 DATE 23 MAY 97 TIME 0546 GMT
LAT 01 00.0S LONG 169 52.1W WEATHER 1 SEA STATE 2
BAROMETER 06 WIND DIR 147 T SPD 02 KT VISIBILITY 7
CLOUD 7 AMOUNT 7 DRY 28.5 WET 26.3 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.922	34.968	21.731	0.000
10	29.923	34.969	21.732	0.061
20	29.856	34.972	21.756	0.121
30	29.838	34.986	21.773	0.182
40	29.810	35.023	21.811	0.242
50	29.717	35.030	21.847	0.302
60	29.695	35.057	21.876	0.362
70	29.658	35.089	21.912	0.421
80	29.421	35.514	22.311	0.478
90	28.915	35.565	22.519	0.533
100	28.550	35.539	22.621	0.586
110	28.377	35.574	22.705	0.638
120	27.935	35.496	22.791	0.690
130	27.666	35.486	22.872	0.740
140	26.932	35.456	23.085	0.790
150	22.407	35.564	24.533	0.831
160	20.191	35.509	25.101	0.864
170	18.092	35.454	25.598	0.890
180	15.918	35.263	25.969	0.914
190	15.107	35.166	26.077	0.934
200	14.338	35.147	26.230	0.953
250	11.501	34.847	26.565	1.032
300	11.079	34.804	26.609	1.107
350	10.554	34.774	26.679	1.180
400	9.646	34.723	26.796	1.249
450	8.482	34.657	26.931	1.313
500	7.646	34.610	27.020	1.371
550	7.467	34.598	27.036	1.427
600	6.769	34.573	27.114	1.481
650	6.042	34.554	27.195	1.530
700	5.885	34.550	27.211	1.578
750	5.632	34.548	27.242	1.624
800	5.417	34.547	27.267	1.670
900	5.034	34.544	27.310	1.758
1000	4.470	34.555	27.382	1.841
1002	4.470	34.554	27.381	1.842



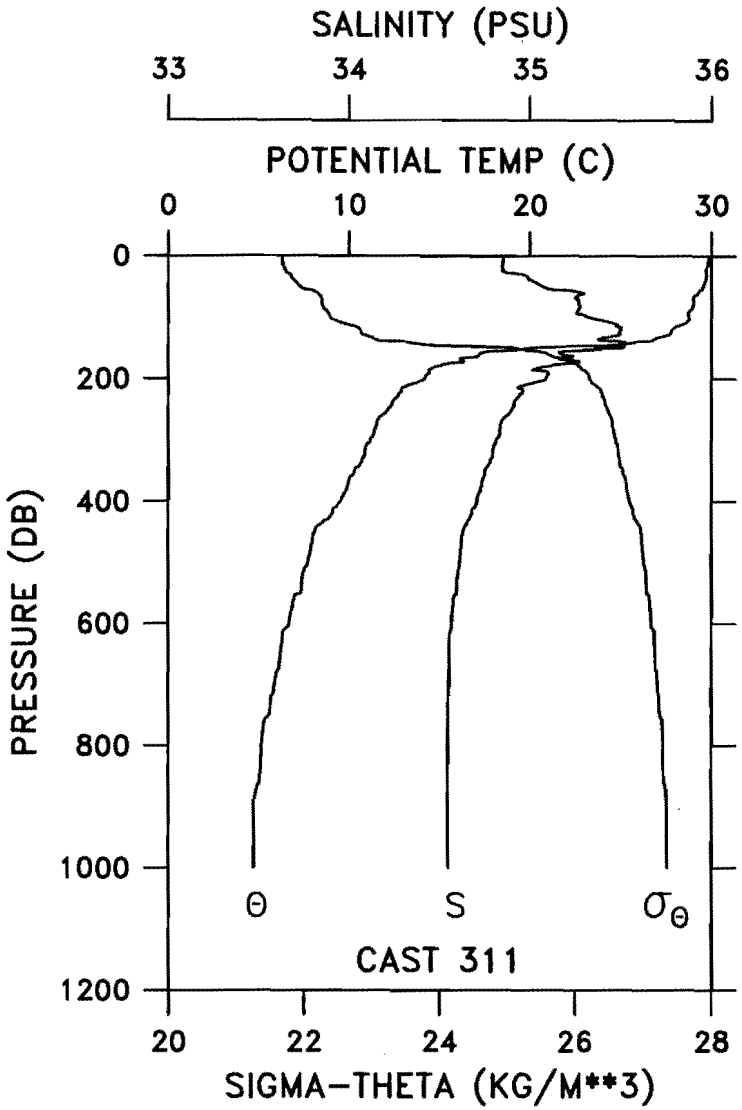
CAST GP3-97-KA-0291 DATE 23 MAY 97 TIME 0933 GMT
LAT 00 30.1S LONG 169 47.8W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 147 T SPD 02 KT VISIBILITY 7
CLOUD 7 AMOUNT 7 DRY 27.5 WET 25.6 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.875	34.957	21.739	0.000
10	29.831	34.956	21.754	0.061
20	29.782	34.983	21.791	0.121
30	29.678	35.008	21.844	0.181
40	29.572	35.073	21.929	0.240
50	29.513	35.143	22.001	0.299
60	29.396	35.254	22.124	0.357
70	29.293	35.285	22.182	0.414
80	29.188	35.310	22.236	0.470
90	28.956	35.357	22.349	0.526
100	28.612	35.487	22.561	0.580
110	28.108	35.504	22.741	0.633
120	27.805	35.498	22.835	0.684
130	27.775	35.517	22.860	0.734
140	26.692	35.446	23.154	0.784
150	22.944	35.504	24.334	0.823
160	18.231	35.265	25.419	0.852
170	16.597	35.291	25.834	0.877
180	15.526	35.165	25.983	0.898
190	14.970	35.079	26.041	0.919
200	14.432	35.124	26.192	0.938
250	11.899	34.876	26.513	1.024
300	11.170	34.812	26.599	1.101
350	10.463	34.755	26.681	1.174
400	9.763	34.724	26.777	1.243
450	8.497	34.648	26.922	1.307
500	7.597	34.606	27.024	1.365
550	7.259	34.590	27.059	1.420
600	6.817	34.569	27.105	1.474
650	6.189	34.555	27.177	1.524
700	5.903	34.552	27.211	1.572
750	5.482	34.549	27.261	1.619
800	5.300	34.547	27.281	1.664
900	4.813	34.547	27.337	1.751
1000	4.554	34.553	27.372	1.833
1102	4.048	34.565	27.435	1.912



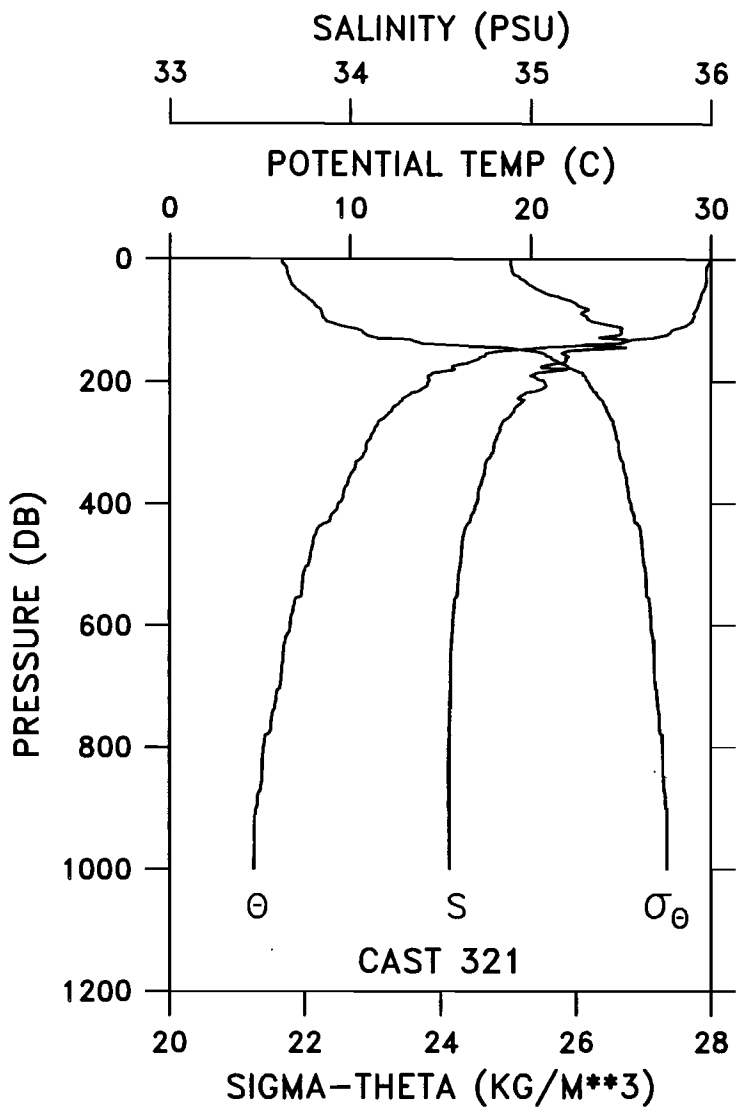
CAST GP3-97-KA-0301 DATE 23 MAY 97 TIME 1540 GMT
LAT 00 05.0S LONG 169 42.9W WEATHER 5 SEA STATE 3
BAROMETER 06 WIND DIR 084 T SPD 06 KT VISIBILITY 6
CLOUD 9 AMOUNT DRY 27.2 WET 25.5 DEPTH 5279 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.910	34.909	21.691	0.000
10	29.862	34.911	21.709	0.061
20	29.756	34.991	21.805	0.122
30	29.560	35.062	21.925	0.181
40	29.351	35.249	22.136	0.240
50	29.313	35.272	22.166	0.296
60	29.065	35.235	22.221	0.353
70	28.842	35.244	22.302	0.409
80	28.722	35.282	22.371	0.464
90	28.717	35.420	22.476	0.519
100	28.304	35.470	22.650	0.572
110	27.847	35.502	22.824	0.623
120	27.670	35.493	22.875	0.674
130	26.892	35.394	23.051	0.724
140	25.029	35.516	23.724	0.768
150	20.947	35.391	24.807	0.807
160	16.998	35.270	25.723	0.833
170	16.045	35.270	25.946	0.855
180	15.474	35.169	25.997	0.876
190	14.760	35.049	26.063	0.896
200	14.602	35.129	26.159	0.916
250	12.776	34.945	26.396	1.006
300	11.394	34.830	26.571	1.086
350	10.630	34.772	26.665	1.160
400	9.597	34.709	26.793	1.229
450	8.355	34.641	26.939	1.293
500	7.566	34.606	27.028	1.350
550	7.261	34.591	27.060	1.405
600	6.688	34.567	27.120	1.457
650	6.210	34.556	27.175	1.507
700	5.854	34.551	27.217	1.555
750	5.304	34.549	27.282	1.601
800	5.184	34.545	27.293	1.645
900	4.739	34.547	27.346	1.731
1000	4.563	34.552	27.370	1.813
1500	3.024	34.599	27.563	2.163
2000	2.109	34.639	27.674	2.445
2500	1.699	34.662	27.724	2.690
3000	1.463	34.672	27.750	2.923
3004	1.462	34.671	27.749	2.925



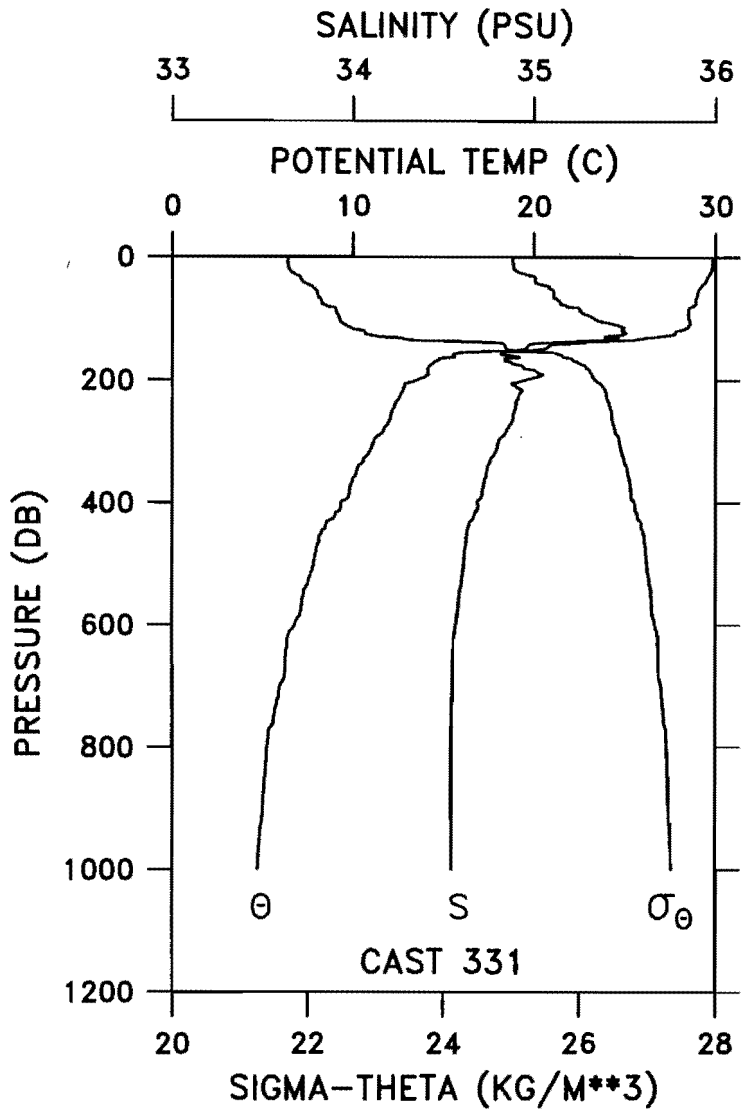
CAST GP3-97-KA-0311 DATE 24 MAY 97 TIME 0825 GMT
LAT 00 01.6S LONG 170 03.4W WEATHER SEA STATE 2
BAROMETER 09 WIND DIR 020 T SPD 08 KT VISIBILITY 7
CLOUD AMOUNT DRY 28.5 WET 26.0 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.818	34.853	21.681	0.000
10	29.820	34.851	21.678	0.061
20	29.718	34.848	21.710	0.122
30	29.732	34.960	21.790	0.183
40	29.651	35.014	21.858	0.243
50	29.539	35.073	21.940	0.302
60	29.262	35.299	22.203	0.360
70	29.012	35.268	22.264	0.416
80	29.004	35.276	22.273	0.472
90	28.780	35.261	22.336	0.528
100	28.787	35.334	22.388	0.583
110	28.479	35.473	22.594	0.637
120	27.807	35.502	22.837	0.689
130	27.378	35.455	22.941	0.739
140	25.768	35.528	23.506	0.787
150	19.777	35.434	25.153	0.825
160	17.185	35.175	25.606	0.851
170	16.306	35.256	25.875	0.874
180	14.746	35.067	26.080	0.895
190	14.442	35.101	26.172	0.914
200	14.185	35.087	26.216	0.933
250	12.153	34.899	26.482	1.018
300	11.187	34.814	26.597	1.095
350	10.319	34.750	26.702	1.168
400	9.534	34.710	26.804	1.237
450	8.111	34.629	26.966	1.299
500	7.721	34.611	27.010	1.356
550	7.315	34.594	27.055	1.411
600	6.674	34.568	27.123	1.463
650	6.198	34.555	27.176	1.513
700	5.863	34.551	27.216	1.561
750	5.552	34.551	27.254	1.607
800	5.155	34.545	27.297	1.651
900	4.734	34.548	27.348	1.737
1000	4.674	34.550	27.355	1.819
1454	3.077	34.597	27.556	2.144



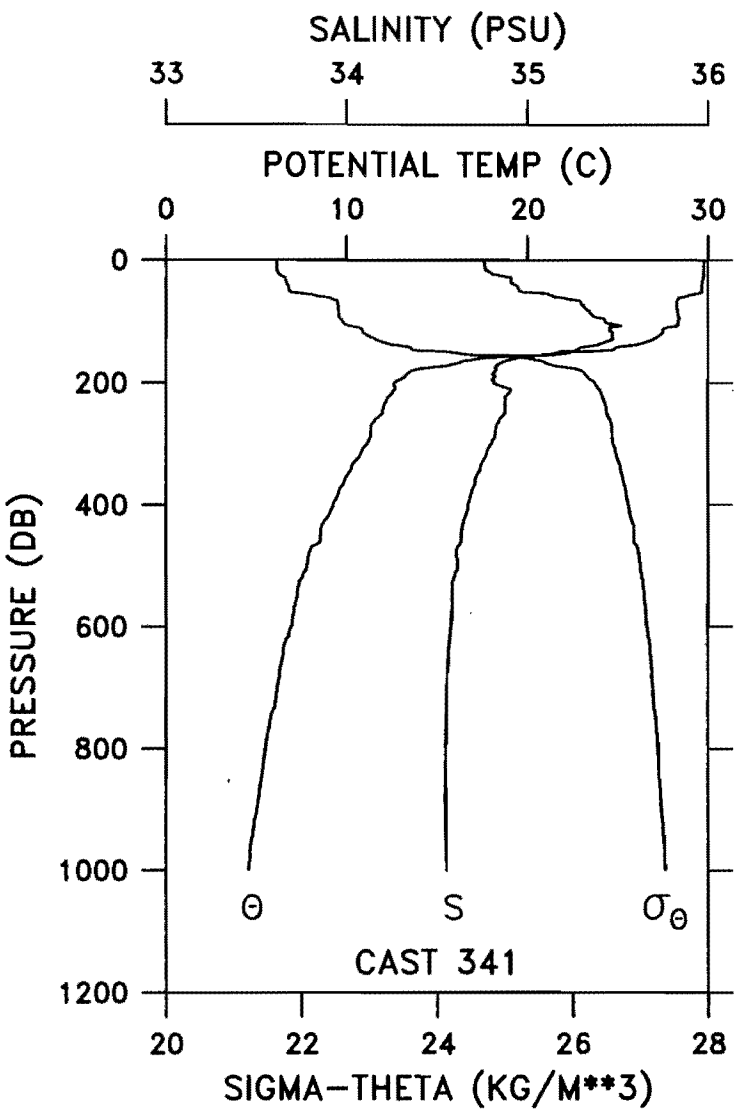
CAST GP3-97-KA-0321 DATE 25 MAY 97 TIME 0132 GMT
LAT 00 02.4S LONG 170 03.3W WEATHER 1 SEA STATE 2
BAROMETER 07 WIND DIR 136 T SPD 07 KT VISIBILITY 7
CLOUD 5 AMOUNT 9 DRY 29.7 WET 27.0 DEPTH 5599 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.924	34.888	21.671	0.000
10	29.825	34.888	21.704	0.061
20	29.739	34.894	21.738	0.122
30	29.744	34.937	21.768	0.183
40	29.731	34.983	21.807	0.243
50	29.615	35.040	21.890	0.303
60	29.448	35.133	22.016	0.362
70	29.352	35.235	22.125	0.419
80	29.220	35.306	22.223	0.476
90	29.060	35.286	22.261	0.533
100	28.991	35.329	22.316	0.588
110	28.500	35.479	22.593	0.643
120	27.738	35.504	22.862	0.694
130	26.139	35.491	23.363	0.743
140	22.992	35.281	24.150	0.786
150	18.277	35.204	25.361	0.817
160	17.154	35.195	25.628	0.842
170	16.440	35.157	25.768	0.866
180	15.731	35.195	25.960	0.888
190	14.313	34.996	26.118	0.908
200	14.305	35.073	26.179	0.927
250	12.200	34.900	26.474	1.014
300	10.926	34.796	26.631	1.091
350	10.088	34.742	26.736	1.162
400	9.355	34.697	26.823	1.230
450	8.128	34.628	26.963	1.292
500	7.717	34.610	27.010	1.349
550	7.332	34.592	27.051	1.404
600	6.699	34.567	27.119	1.457
650	6.308	34.556	27.162	1.507
700	6.141	34.554	27.182	1.556
750	5.673	34.549	27.238	1.604
800	5.209	34.546	27.291	1.649
900	4.814	34.546	27.337	1.735
1000	4.666	34.549	27.356	1.818
1500	2.936	34.603	27.574	2.169
1505	2.915	34.602	27.576	2.172



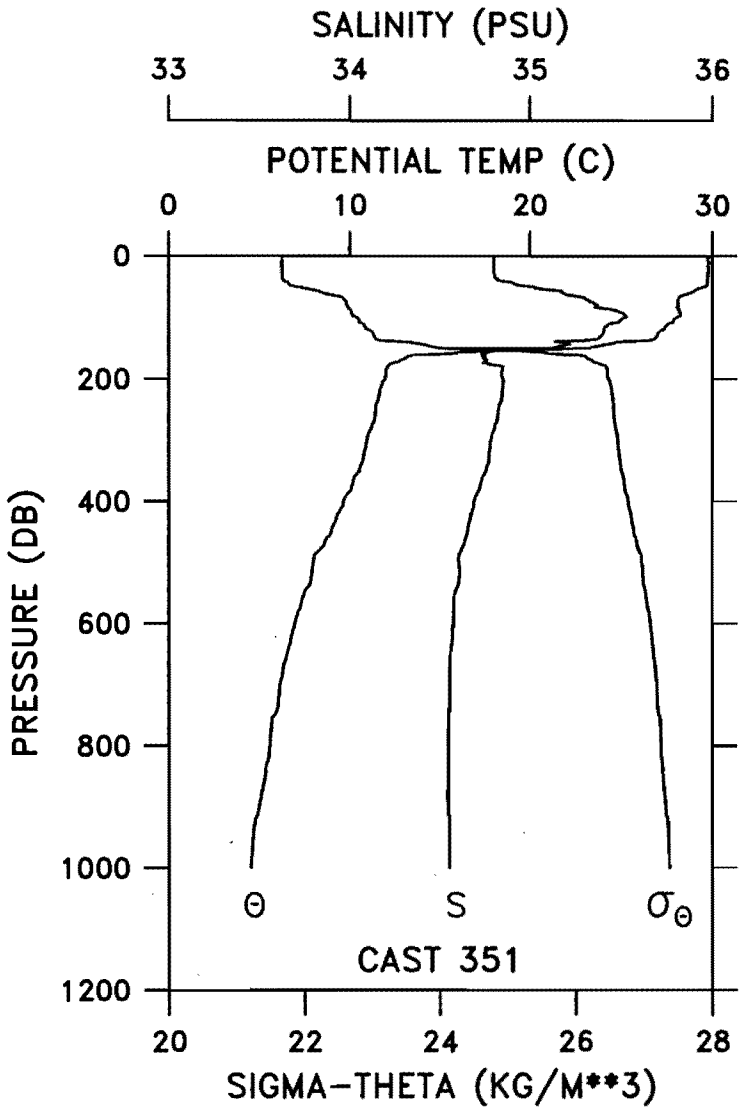
CAST GP3-97-KA-0331 DATE 25 MAY 97 TIME 0610 GMT
LAT 00 30.1N LONG 170 00.0W WEATHER 1 SEA STATE 2
BAROMETER 07 WIND DIR 060 T SPD 14 KT VISIBILITY 7
CLOUD 5 AMOUNT 9 DRY 29.6 WET 26.1 DEPTH 5449 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.839	34.886	21.698	0.000
10	29.837	34.886	21.699	0.061
20	29.783	34.894	21.723	0.122
30	29.624	34.980	21.842	0.182
40	29.446	35.007	21.922	0.242
50	29.153	35.083	22.077	0.300
60	29.009	35.110	22.146	0.357
70	28.901	35.137	22.202	0.414
80	28.732	35.178	22.290	0.470
90	28.510	35.267	22.430	0.525
100	28.543	35.333	22.468	0.579
110	28.572	35.459	22.553	0.633
120	27.811	35.498	22.833	0.686
130	26.646	35.420	23.149	0.736
140	20.070	35.171	24.875	0.777
150	19.428	35.040	24.943	0.808
160	15.582	34.873	25.745	0.833
170	14.546	34.868	25.970	0.855
180	14.193	34.943	26.103	0.875
190	14.192	35.050	26.186	0.894
200	13.577	34.955	26.241	0.913
250	12.174	34.895	26.475	0.997
300	11.166	34.807	26.596	1.076
350	10.209	34.740	26.713	1.149
400	9.360	34.691	26.818	1.217
450	8.248	34.632	26.947	1.280
500	7.828	34.614	26.997	1.338
550	7.266	34.591	27.059	1.393
600	6.754	34.571	27.115	1.447
650	6.258	34.556	27.169	1.497
700	5.942	34.552	27.206	1.546
750	5.592	34.548	27.247	1.592
800	5.229	34.546	27.289	1.637
900	4.971	34.545	27.318	1.724
1000	4.688	34.550	27.354	1.808
1003	4.687	34.550	27.354	1.810



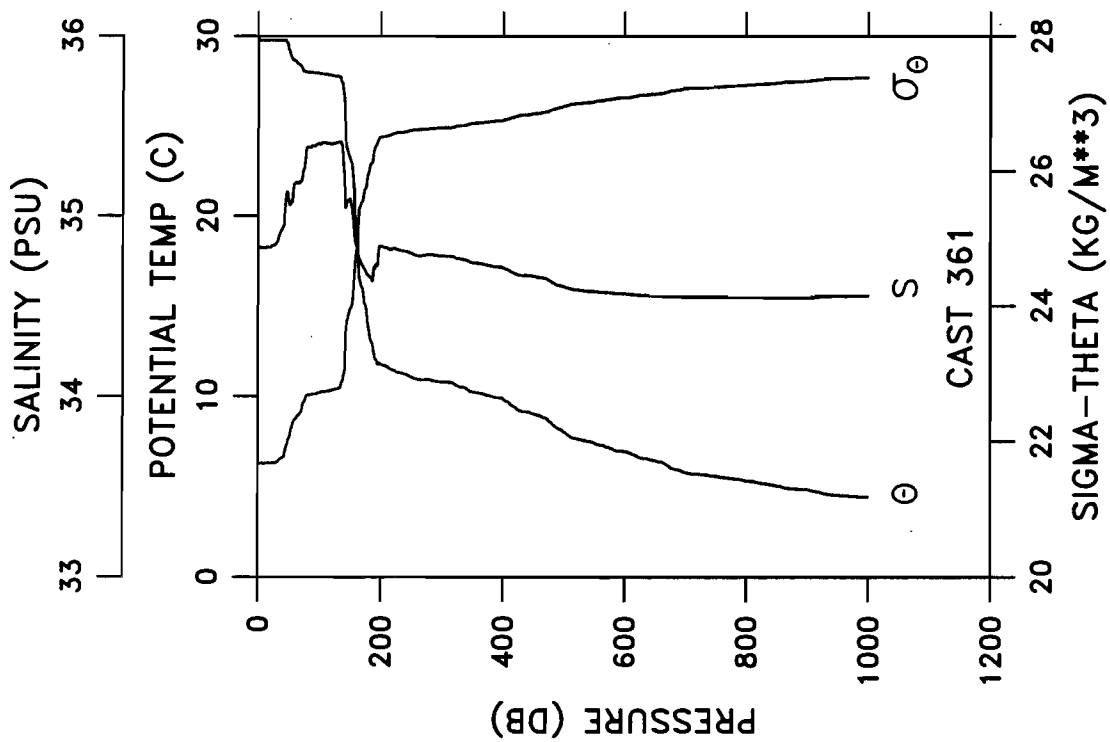
CAST GP3-97-KA-0341 DATE 25 MAY 97 TIME 1010 GMT
LAT 00 59.6N LONG 169 58.5W WEATHER 1 SEA STATE 2
BAROMETER 09 WIND DIR 056 T SPD 12 KT VISIBILITY 7
CLOUD 2 AMOUNT DRY 28.0 WET 26.5 DEPTH 5413 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.756	34.761	21.632	0.000
10	29.762	34.764	21.632	0.062
20	29.766	34.793	21.653	0.123
30	29.696	34.908	21.763	0.184
40	29.651	34.930	21.795	0.245
50	29.643	34.958	21.818	0.305
60	28.578	35.144	22.315	0.363
70	28.253	35.294	22.535	0.417
80	28.288	35.326	22.547	0.470
90	28.335	35.356	22.555	0.523
100	28.324	35.427	22.611	0.576
110	27.714	35.462	22.838	0.629
120	27.433	35.469	22.934	0.679
130	26.881	35.461	23.105	0.728
140	25.402	35.345	23.481	0.774
150	22.559	35.171	24.191	0.817
160	17.571	34.940	25.332	0.850
170	15.828	34.836	25.662	0.875
180	13.644	34.822	26.124	0.897
190	13.201	34.822	26.215	0.915
200	12.660	34.812	26.316	0.933
250	11.964	34.874	26.498	1.016
300	11.142	34.799	26.594	1.092
350	10.057	34.721	26.724	1.165
400	9.259	34.671	26.819	1.232
450	8.556	34.633	26.901	1.295
500	7.810	34.613	26.998	1.354
550	7.262	34.582	27.053	1.410
600	6.911	34.576	27.097	1.463
650	6.427	34.562	27.152	1.514
700	6.145	34.555	27.182	1.564
750	5.776	34.550	27.226	1.612
800	5.481	34.547	27.260	1.658
900	5.021	34.546	27.313	1.747
1000	4.560	34.553	27.371	1.830
1005	4.534	34.553	27.374	1.834



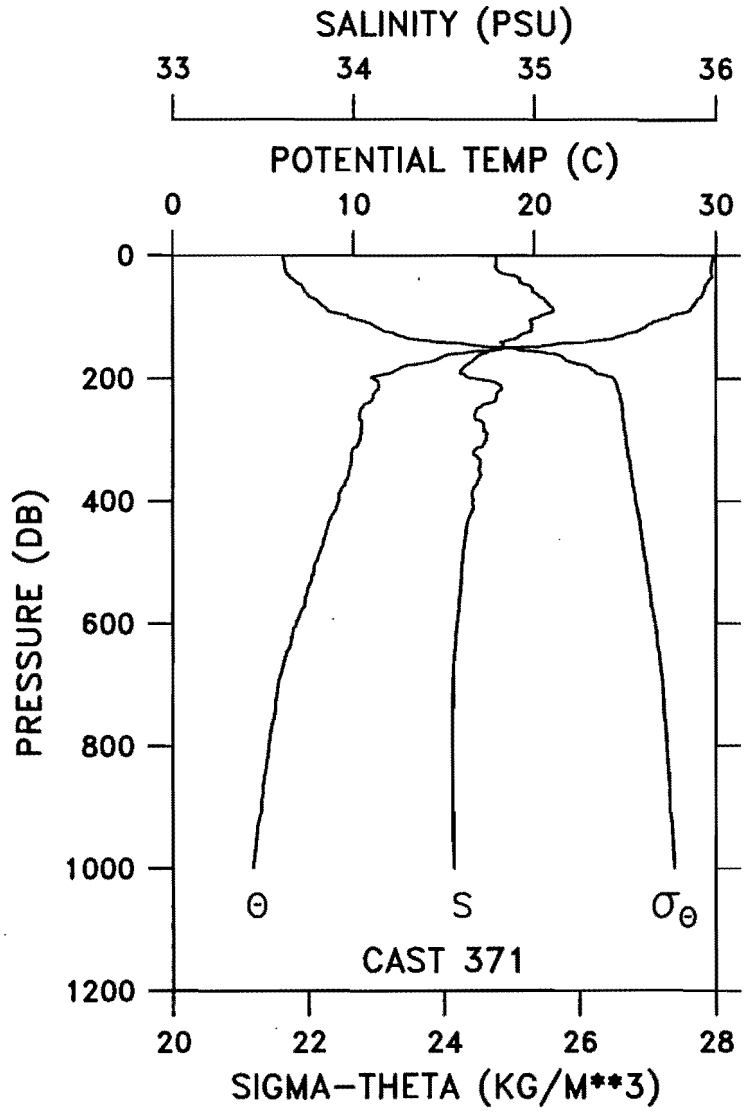
CAST GP3-97-KA-0351 DATE 25 MAY 97 TIME 1406 GMT
LAT 01 30.2N LONG 169 57.1W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 050 T SPD 10 KT VISIBILITY 7
CLOUD 2 AMOUNT DRY 28.3 WET 25.4 DEPTH 5569 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.774	34.802	21.657	0.000
10	29.777	34.800	21.654	0.061
20	29.775	34.800	21.656	0.123
30	29.771	34.803	21.659	0.184
40	29.746	34.834	21.690	0.246
50	29.558	35.018	21.893	0.306
60	28.746	35.184	22.289	0.364
70	28.153	35.307	22.578	0.418
80	28.147	35.371	22.628	0.470
90	28.226	35.484	22.686	0.523
100	28.047	35.520	22.772	0.574
110	27.568	35.437	22.866	0.625
120	27.250	35.407	22.946	0.675
130	26.958	35.390	23.027	0.724
140	24.718	35.173	23.559	0.772
150	23.066	35.106	23.997	0.814
160	14.753	34.732	25.820	0.842
170	12.816	34.756	26.241	0.861
180	12.115	34.852	26.453	0.879
190	12.008	34.845	26.468	0.895
200	11.957	34.852	26.483	0.911
250	11.439	34.825	26.559	0.988
300	10.939	34.783	26.618	1.064
350	10.543	34.756	26.667	1.137
400	9.651	34.691	26.770	1.207
450	8.976	34.653	26.850	1.273
500	7.984	34.606	26.967	1.334
550	7.470	34.583	27.025	1.392
600	6.923	34.574	27.094	1.446
650	6.478	34.559	27.143	1.498
700	6.086	34.554	27.190	1.548
750	5.799	34.552	27.224	1.596
800	5.537	34.548	27.253	1.642
900	4.971	34.546	27.319	1.731
1000	4.497	34.554	27.379	1.812
1004	4.453	34.555	27.384	1.816



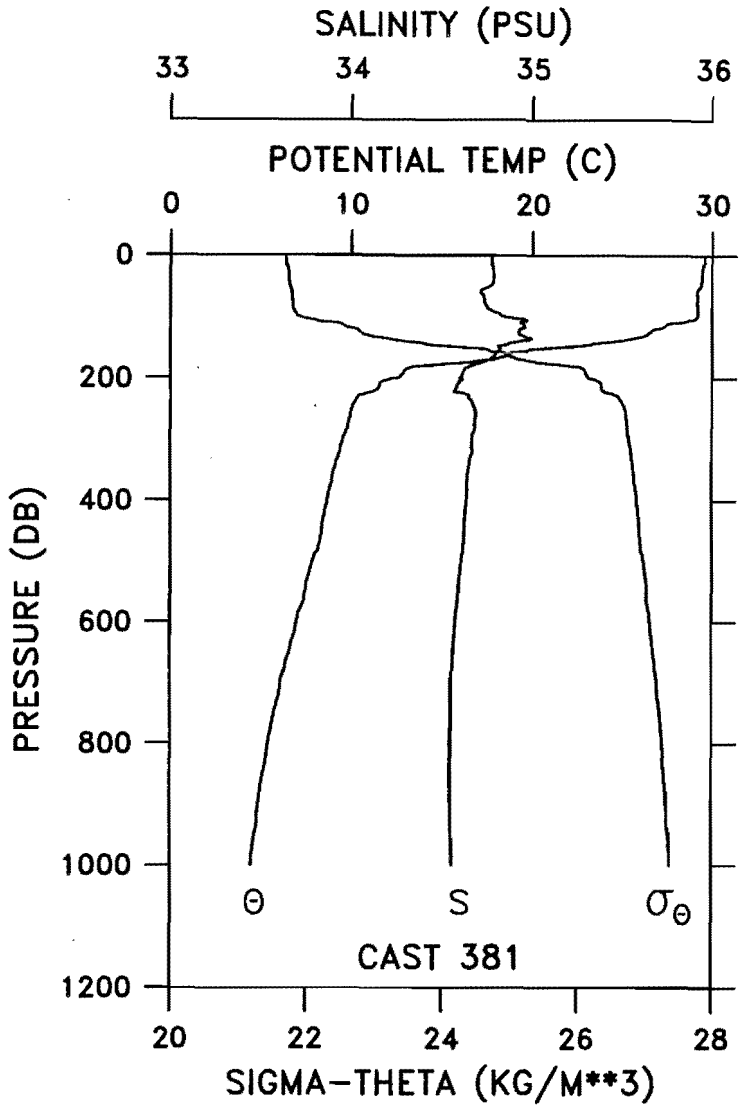
CAST GP3-97-KA-0361 DATE 25 MAY 97 TIME 1746 GMT
LAT 01 58.0N LONG 169 55.5W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 080 T SPD 08 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 29.0 WET 26.2 DEPTH 5355 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.763	34.826	21.679	0.000
10	29.761	34.822	21.677	0.061
20	29.763	34.824	21.677	0.123
30	29.774	34.849	21.692	0.184
40	29.758	34.935	21.762	0.245
50	29.214	35.077	22.053	0.304
60	28.633	35.184	22.327	0.360
70	28.313	35.195	22.441	0.415
80	27.990	35.382	22.687	0.468
90	27.961	35.389	22.702	0.520
100	27.915	35.399	22.724	0.572
110	27.873	35.405	22.743	0.623
120	27.795	35.397	22.762	0.675
130	27.751	35.409	22.786	0.726
140	26.653	35.235	23.007	0.777
150	23.178	35.092	23.954	0.820
160	19.286	34.835	24.823	0.856
170	15.931	34.725	25.552	0.883
180	13.733	34.668	25.987	0.906
190	12.090	34.704	26.342	0.925
200	11.770	34.832	26.502	0.942
250	11.068	34.792	26.602	1.018
300	10.797	34.778	26.639	1.092
350	10.256	34.739	26.704	1.164
400	9.863	34.711	26.750	1.234
450	9.029	34.665	26.851	1.300
500	8.021	34.606	26.962	1.362
550	7.422	34.580	27.029	1.419
600	6.926	34.567	27.088	1.473
650	6.440	34.556	27.145	1.525
700	5.783	34.549	27.224	1.573
750	5.579	34.548	27.248	1.619
800	5.318	34.547	27.279	1.664
900	4.861	34.547	27.332	1.751
1000	4.436	34.556	27.387	1.831
1001	4.436	34.556	27.387	1.832



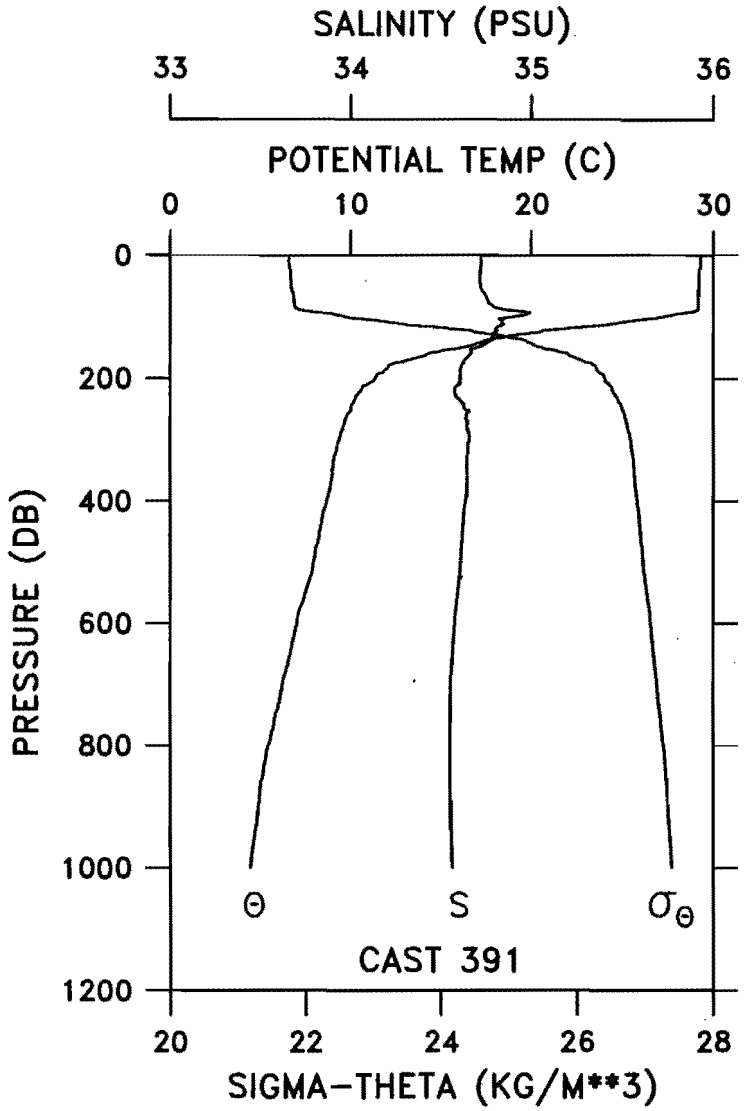
CAST GP3-97-KA-0371 DATE 26 MAY 97 TIME 0249 GMT
LAT 03 00.3N LONG 169 54.9W WEATHER 1 SEA STATE 2
BAROMETER 07 WIND DIR 156 T SPD 07 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 29.6 WET 27.8 DEPTH 5496 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.844	34.790	21.625	0.000
10	29.788	34.789	21.643	0.062
20	29.748	34.787	21.655	0.123
30	29.758	34.836	21.688	0.185
40	29.632	34.916	21.791	0.245
50	29.404	34.978	21.915	0.305
60	29.296	35.001	21.968	0.364
70	29.022	35.053	22.099	0.423
80	28.793	35.082	22.197	0.480
90	28.561	35.106	22.292	0.536
100	27.455	35.026	22.593	0.590
110	26.435	34.982	22.885	0.641
120	25.857	34.984	23.068	0.690
130	24.852	34.921	23.328	0.738
140	22.969	34.827	23.813	0.782
150	18.414	34.794	25.013	0.818
160	15.589	34.711	25.619	0.845
170	14.570	34.665	25.808	0.868
180	12.822	34.616	26.131	0.889
190	12.176	34.591	26.239	0.908
200	11.083	34.676	26.509	0.924
250	10.415	34.682	26.632	0.999
300	10.365	34.733	26.681	1.071
350	9.760	34.695	26.755	1.141
400	9.183	34.664	26.826	1.207
450	8.488	34.622	26.903	1.270
500	7.884	34.602	26.979	1.330
550	7.426	34.590	27.036	1.387
600	6.811	34.573	27.109	1.441
650	6.260	34.559	27.171	1.492
700	5.810	34.551	27.222	1.540
750	5.598	34.548	27.246	1.586
800	5.271	34.547	27.284	1.631
900	4.885	34.549	27.331	1.717
1000	4.413	34.558	27.391	1.798
1003	4.398	34.558	27.392	1.800



CAST GP3-97-KA-0381 DATE 26 MAY 97 TIME 0930 GMT
LAT 03 59.5N LONG 169 56.8W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 033 T SPD 05 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 28.3 WET 25.8 DEPTH 5713 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.579	34.773	21.702	0.000
10	29.574	34.772	21.702	0.061
20	29.484	34.784	21.742	0.122
30	29.462	34.786	21.751	0.183
40	29.440	34.784	21.757	0.243
50	29.364	34.765	21.768	0.304
60	29.171	34.713	21.794	0.364
70	29.190	34.732	21.802	0.425
80	29.182	34.740	21.810	0.485
90	29.213	34.775	21.826	0.545
100	29.150	34.852	21.905	0.605
110	27.691	34.934	22.448	0.663
120	26.765	34.933	22.744	0.716
130	26.260	34.944	22.911	0.767
140	24.416	34.925	23.462	0.814
150	21.281	34.818	24.280	0.856
160	18.701	34.796	24.942	0.889
170	17.732	34.759	25.154	0.918
180	14.034	34.656	25.915	0.944
190	12.891	34.614	26.116	0.963
200	12.531	34.594	26.172	0.983
250	10.040	34.683	26.698	1.062
300	9.572	34.667	26.764	1.130
350	9.071	34.646	26.830	1.195
400	8.699	34.635	26.881	1.258
450	8.396	34.624	26.918	1.320
500	7.891	34.606	26.981	1.379
550	7.457	34.591	27.032	1.436
600	7.014	34.576	27.083	1.491
650	6.604	34.564	27.130	1.543
700	6.116	34.553	27.185	1.593
750	5.745	34.548	27.228	1.641
800	5.425	34.545	27.264	1.687
900	4.894	34.549	27.330	1.774
1000	4.470	34.557	27.383	1.856
1005	4.455	34.556	27.385	1.860

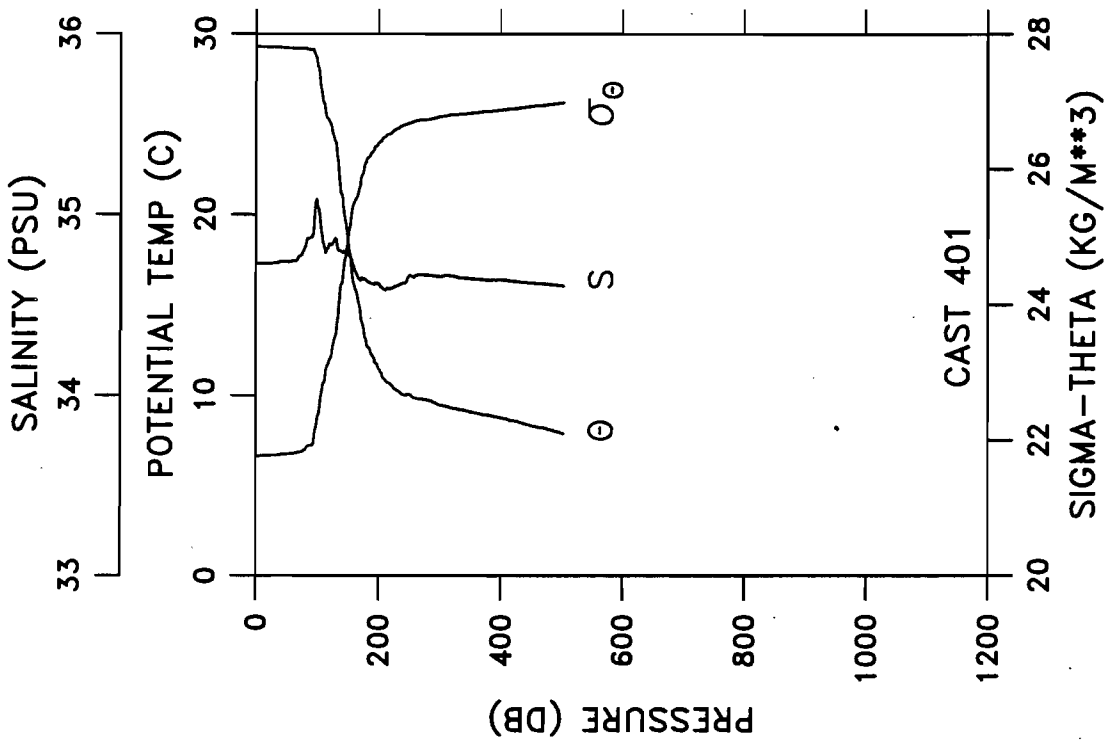


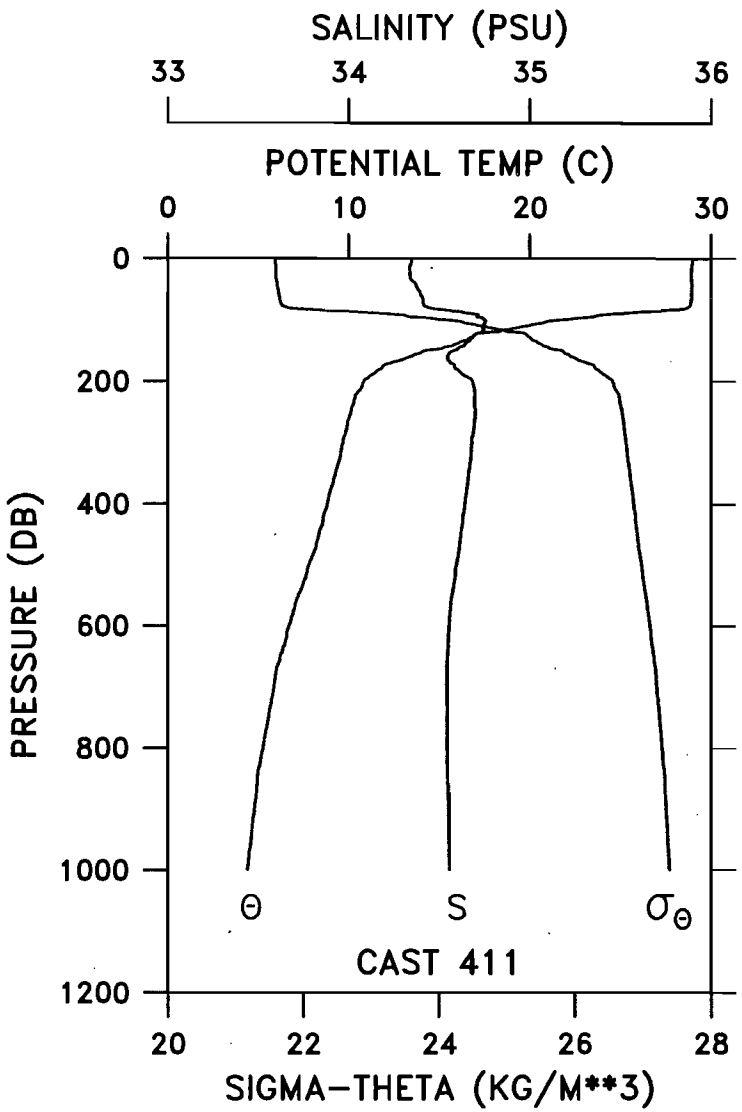
CAST GP3-97-KA-0391 DATE 26 MAY 97 TIME 1556 GMT
LAT 04 56.8N LONG 169 55.0W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 116 T SPD 08 KT VISIBILITY 7
CLOUD 6 AMOUNT DRY 27.3 WET 25.6 DEPTH 5800 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.324	34.722	21.749	0.000
10	29.322	34.722	21.750	0.061
20	29.286	34.720	21.760	0.121
30	29.228	34.716	21.777	0.182
40	29.221	34.717	21.780	0.242
50	29.213	34.719	21.784	0.302
60	29.172	34.736	21.811	0.363
70	29.169	34.754	21.826	0.423
80	29.193	34.779	21.836	0.483
90	29.047	34.914	21.986	0.543
100	27.156	34.891	22.588	0.598
110	24.688	34.835	23.313	0.648
120	21.443	34.797	24.219	0.690
130	18.866	34.792	24.897	0.724
140	17.307	34.766	25.262	0.753
150	16.083	34.697	25.496	0.779
160	14.263	34.661	25.870	0.803
170	13.179	34.631	26.072	0.823
180	12.102	34.611	26.268	0.842
190	11.792	34.608	26.325	0.860
200	11.344	34.607	26.407	0.877
250	10.018	34.632	26.662	0.953
300	9.364	34.656	26.790	1.021
350	8.995	34.645	26.841	1.086
400	8.671	34.634	26.884	1.149
450	8.286	34.620	26.932	1.209
500	7.942	34.608	26.975	1.269
550	7.492	34.592	27.028	1.326
600	7.007	34.575	27.084	1.380
650	6.632	34.564	27.126	1.433
700	6.196	34.552	27.174	1.483
750	5.807	34.550	27.221	1.532
800	5.381	34.550	27.274	1.578
900	4.854	34.554	27.338	1.664
1000	4.429	34.562	27.392	1.745
1004	4.428	34.562	27.392	1.748

CAST GP3-97-KA-0401 DATE 27 MAY 97 TIME 0250 GMT
LAT 04 57.6N LONG 169 58.7W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 103 T SPD 04 KT VISIBILITY 7
CLOUD 7 AMOUNT 7 DRY 28.5 WET 26.5 DEPTH 5776 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.303	34.728	21.761	0.000
10	29.274	34.727	21.769	0.060
20	29.265	34.727	21.773	0.121
30	29.264	34.731	21.776	0.181
40	29.256	34.739	21.785	0.242
50	29.218	34.738	21.797	0.302
60	29.205	34.744	21.805	0.362
70	29.205	34.767	21.823	0.422
80	29.209	34.817	21.859	0.483
90	29.134	34.873	21.926	0.542
100	28.400	35.058	22.309	0.600
110	26.211	34.838	22.847	0.653
120	25.085	34.839	23.196	0.702
130	23.971	34.866	23.550	0.747
140	21.076	34.793	24.317	0.787
150	18.616	34.773	24.946	0.820
160	16.080	34.701	25.500	0.848
170	14.681	34.634	25.760	0.872
180	12.936	34.633	26.122	0.893
190	12.190	34.617	26.256	0.911
200	11.473	34.616	26.390	0.929
250	10.059	34.662	26.679	1.005
300	9.465	34.655	26.773	1.073
350	9.079	34.644	26.827	1.138
400	8.752	34.637	26.874	1.202
450	8.319	34.621	26.928	1.263
500	7.896	34.605	26.980	1.323
503	7.860	34.603	26.983	1.326





CAST GP3-97-KA-0411 DATE 27 MAY 97 TIME 2340 GMT
LAT 08 02.3N LONG 170 03.3W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 060 T SPD 12 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 29.7 WET 27.0 DEPTH 5493 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.972	34.349	21.587	0.000
10	28.949	34.344	21.591	0.062
20	28.918	34.339	21.597	0.124
30	28.916	34.341	21.600	0.186
40	28.938	34.369	21.613	0.248
50	28.930	34.385	21.628	0.310
60	28.921	34.401	21.643	0.372
70	28.889	34.412	21.662	0.434
80	28.659	34.448	21.765	0.495
90	24.592	34.693	23.235	0.550
100	21.632	34.756	24.136	0.592
110	19.734	34.737	24.632	0.628
120	17.583	34.739	25.175	0.659
130	16.639	34.678	25.353	0.686
140	15.813	34.644	25.517	0.712
150	14.169	34.575	25.824	0.736
160	13.359	34.548	25.971	0.757
170	12.343	34.562	26.184	0.777
180	11.739	34.601	26.329	0.795
190	11.226	34.637	26.452	0.811
200	10.845	34.685	26.558	0.827
250	10.129	34.700	26.696	0.899
300	9.709	34.682	26.753	0.967
350	9.265	34.662	26.811	1.034
400	8.828	34.644	26.867	1.098
450	8.364	34.621	26.921	1.159
500	7.818	34.597	26.985	1.219
550	7.236	34.570	27.048	1.275
600	6.688	34.556	27.111	1.329
650	6.221	34.547	27.167	1.379
700	5.880	34.544	27.208	1.428
750	5.587	34.546	27.246	1.474
800	5.283	34.545	27.281	1.519
900	4.803	34.552	27.343	1.604
1000	4.397	34.558	27.393	1.685
1500	2.888	34.602	27.577	2.031
2000	2.111	34.637	27.672	2.312
2500	1.719	34.660	27.721	2.559
3000	1.474	34.673	27.750	2.793
3500	1.248	34.684	27.775	3.018
4000	1.031	34.695	27.798	3.234
4003	1.031	34.695	27.798	3.235

CAST GP3-97-KA-0011 LAT 13 41.6N LONG 156 16.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	15.454	34.492	15.423	25.487
200.	15.461	34.496	15.431	25.486
200.	15.458	34.494	15.427	25.487
200.	15.471	34.494	15.440	25.485
200.	15.467	34.496	15.436	25.486
201.	15.474	34.496	15.443	25.485
200.	15.485	34.495	15.454	25.484
200.	15.485	34.496	15.454	25.484
201.	15.488	34.496	15.457	25.483
200.	15.502	34.499	15.471	25.481
200.	15.528	34.503	15.497	25.478

CAST GP3-97-KA-0021 LAT 07 58.9N LONG 155 00.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	27.743	34.586	27.741	22.171
199.	11.011	34.714	10.987	26.556
603.	6.892	34.559	6.835	27.095
799.	5.454	34.550	5.385	27.273
998.	4.577	34.561	4.497	27.382
999.	4.577	34.559	4.497	27.382

CAST GP3-97-KA-0031 LAT 06 59.9N LONG 154 58.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.296	34.675	28.293	22.059
200.	10.870	34.685	10.846	26.573
599.	6.850	34.560	6.793	27.102
801.	5.438	34.543	5.369	27.272
1006.	4.487	34.562	4.407	27.395
1006.	4.487	34.564	4.407	27.395

CAST GP3-97-KA-0041 LAT 06 00.1N LONG 154 56.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.441	34.721	28.438	22.045
200.	11.008	34.634	10.984	26.497
599.	6.659	34.562	6.604	27.130
799.	5.168	34.550	5.102	27.308
1003.	4.382	34.563	4.303	27.409
1003.	4.383	34.564	4.304	27.409

CAST GP3-97-KA-0051 LAT 05 02.4N LONG 154 53.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.541	34.604	28.538	21.924
10.	28.538	34.604	28.535	21.925
151.	15.691	34.687	15.667	25.582
299.	9.351	34.658	9.317	26.801
501.	7.946	34.603	7.895	26.979
1000.	4.571	34.557	4.491	27.383
1501.	3.106	34.604	2.997	27.570
2000.	2.270	34.640	2.130	27.673
2498.	1.894	34.664	1.716	27.724
2999.	1.693	34.676	1.472	27.751
3498.	1.504	34.686	1.238	27.776
3702.	1.456	34.690	1.170	27.784

CAST GP3-97-KA-0061 LAT 04 00.3N LONG 154 55.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.696	34.819	28.694	22.032
200.	11.818	34.629	11.792	26.339
599.	6.752	34.568	6.696	27.121
800.	5.436	34.546	5.368	27.271
1006.	4.493	34.561	4.413	27.392
1005.	4.498	34.564	4.418	27.391

CAST GP3-97-KA-0071 LAT 03 00.3N LONG 154 58.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.561	34.961	28.559	22.183
201.	11.432	34.797	11.407	26.545
801.	5.228	34.549	5.161	27.296
1002.	4.388	34.562	4.309	27.403
1002.	4.388	34.562	4.309	27.403

CAST GP3-97-KA-0081 LAT 02 00.6N LONG 154 59.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.623	35.014	28.621	22.202
198.	12.087	34.722	12.061	26.367
601.	6.796	34.561	6.739	27.108
800.	5.452	34.543	5.383	27.267
999.	4.470	34.557	4.391	27.392
1000.	4.469	34.557	4.390	27.392

CAST GP3-97-KA-0091 LAT 01 00.2N LONG 154 59.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.445	35.247	28.443	22.438
102.	27.251	35.415	27.227	22.960
602.	6.783	34.568	6.726	27.115
802.	5.505	34.550	5.436	27.265
1001.	4.628	34.554	4.548	27.372
1002.	4.624	34.554	4.543	27.372

CAST GP3-97-KA-0101 LAT 00 30.3N LONG 155 00.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.382	35.281	28.380	22.485
203.	13.296	34.926	13.267	26.283
597.	6.673	34.567	6.617	27.130
803.	5.394	34.549	5.326	27.278
998.	4.556	34.556	4.476	27.381
998.	4.550	34.556	4.470	27.382

CAST GP3-97-KA-0111 LAT 00 00.5N LONG 155 01.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.675	35.351	28.673	22.440
10.	28.647	35.351	28.645	22.450
21.	28.497	35.348	28.492	22.498
30.	28.478	35.348	28.470	22.503
39.	28.466	35.346	28.456	22.506
60.	28.348	35.331	28.333	22.534
80.	27.914	35.307	27.896	22.663
101.	27.973	35.438	27.950	22.740
125.	27.225	35.400	27.196	22.955
150.	22.499	35.362	22.469	24.356
501.	7.638	34.604	7.588	27.024
1000.	4.567	34.555	4.487	27.379

CAST GP3-97-KA-0121 LAT 00 29.7S LONG 155 00.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.630	35.368	28.628	22.465
200.	15.738	35.244	15.707	25.988
600.	6.976	34.575	6.919	27.096
800.	5.576	34.547	5.507	27.256
1002.	4.477	34.555	4.397	27.390
1002.	4.478	34.555	4.398	27.389

CAST GP3-97-KA-0131 LAT 00 59.4S LONG 155 01.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.661	35.369	28.659	22.458
202.	12.951	34.987	12.923	26.397
598.	6.614	34.564	6.558	27.136
800.	5.403	34.547	5.335	27.277
1008.	4.418	34.557	4.338	27.398

CAST GP3-97-KA-0141 LAT 01 30.0S LONG 155 00.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.832	35.420	28.830	22.441
261.	11.692	34.850	11.659	26.535
452.	7.902	34.619	7.856	26.996
600.	6.883	34.569	6.826	27.103
1006.	4.322	34.560	4.244	27.410

CAST GP3-97-KA-0151 LAT 01 59.9S LONG 154 59.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.044	35.480	29.042	22.413
200.	12.597	34.943	12.570	26.437
600.	6.868	34.563	6.811	27.102
1003.	4.442	34.552	4.362	27.391

CAST GP3-97-KA-0161 LAT 03 00.2S LONG 154 53.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.837	35.436	28.834	22.449
9.	28.837	35.436	28.834	22.449
199.	13.446	35.050	13.418	26.346
600.	6.812	34.579	6.756	27.120
801.	5.253	34.545	5.186	27.291
1002.	4.361	34.556	4.282	27.398

CAST GP3-97-KA-0171 LAT 03 59.7S LONG 154 47.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.863	35.482	28.861	22.477
199.	13.911	35.049	13.883	26.249
599.	6.839	34.579	6.782	27.119
800.	5.369	34.539	5.301	27.275
1004.	4.419	34.546	4.340	27.390
1004.	4.417	34.545	4.338	27.390

CAST GP3-97-KA-0181 LAT 04 56.6S LONG 154 59.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.920	35.358	28.918	22.353
200.	15.541	35.204	15.510	26.023
600.	7.084	34.588	7.027	27.093
800.	5.752	34.540	5.682	27.230
1004.	4.430	34.546	4.351	27.389
1004.	4.433	34.546	4.354	27.389

CAST GP3-97-KA-0191 LAT 05 59.4S LONG 154 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.095	35.569	29.093	22.464
201.	15.999	35.266	15.967	25.958
602.	7.094	34.579	7.036	27.085
800.	5.397	34.537	5.329	27.272
1004.	4.527	34.543	4.447	27.377

CAST GP3-97-KA-0201 LAT 08 16.4S LONG 154 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.171	35.508	29.169	22.393
200.	21.654	36.038	21.615	25.107
606.	6.712	34.556	6.655	27.119
799.	5.436	34.531	5.368	27.262
1005.	4.317	34.541	4.239	27.398

CAST GP3-97-KA-0211 LAT 04 59.0S LONG 169 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.644	35.336	29.641	22.100
200.	20.323	35.811	20.285	25.307
600.	7.403	34.591	7.344	27.045
799.	5.708	34.539	5.639	27.233
1004.	4.400	34.544	4.321	27.389
1004.	4.401	34.553	4.322	27.389

CAST GP3-97-KA-0221 LAT 03 59.8S LONG 170 01.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.679	35.303	29.676	22.072
189.	18.954	35.646	18.920	25.515
602.	6.853	34.581	6.796	27.118
801.	5.329	34.541	5.261	27.281
1005.	4.469	34.549	4.389	27.386
1005.	4.470	34.548	4.390	27.386

CAST GP3-97-KA-0231 LAT 03 00.0S LONG 169 59.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.813	34.929	29.811	21.737
201.	15.092	35.220	15.062	26.111
601.	6.861	34.580	6.804	27.117
799.	5.309	34.547	5.241	27.289
1004.	4.501	34.552	4.421	27.386
1004.	4.505	34.552	4.425	27.386

CAST GP3-97-KA-0241 LAT 02 12.0S LONG 170 01.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.861	34.933	29.859	21.726
10.	29.861	34.936	29.858	21.726
201.	12.734	34.982	12.707	26.439
200.	12.746	34.984	12.719	26.436
503.	8.090	34.634	8.038	26.983
503.	8.104	34.634	8.052	26.982

CAST GP3-97-KA-0251 LAT 02 08.2S LONG 170 01.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.803	34.897	29.800	21.719
1002.	4.457	34.557	4.378	27.394
1889.	2.316	34.639	2.184	27.668
2169.	2.087	34.654	1.935	27.698
2552.	1.869	34.664	1.687	27.726
2755.	1.790	34.669	1.590	27.737
3002.	1.697	34.674	1.475	27.751
3281.	1.587	34.682	1.341	27.767
3502.	1.509	34.686	1.242	27.778
3750.	1.431	34.692	1.141	27.789
4004.	1.403	34.695	1.086	27.795

CAST GP3-97-KA-0271 LAT 01 29.4S LONG 169 56.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	30.022	34.913	30.019	21.642
199.	13.716	35.070	13.687	25.948
601.	6.714	34.566	6.658	27.103
798.	5.413	34.545	5.345	27.263
1004.	4.508	34.556	4.428	27.389
1005.	4.508	34.557	4.428	27.390

CAST GP3-97-KA-0281 LAT 01 00.0S LONG 169 52.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.918	34.981	29.915	21.744
200.	13.411	35.034	13.383	26.328
600.	6.837	34.569	6.781	27.107
801.	5.479	34.546	5.410	27.267
1000.	4.550	34.556	4.470	27.382
1001.	4.551	34.555	4.471	27.382

CAST GP3-97-KA-0291 LAT 00 30.1S LONG 169 47.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.817	34.953	29.815	21.757
200.	14.129	35.072	14.100	26.222
600.	6.914	34.570	6.857	27.101
800.	5.370	34.548	5.302	27.281
1000.	4.650	34.553	4.570	27.369
1001.	4.649	34.552	4.568	27.369

CAST GP3-97-KA-0301 LAT 00 05.0S LONG 169 42.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.802	34.846	29.800	21.694
74.	28.778	35.249	28.760	22.333
151.	20.170	35.323	20.142	25.059
300.	11.417	34.827	11.379	26.572
500.	7.556	34.600	7.507	27.033
1001.	4.631	34.553	4.550	27.371
1500.	3.075	34.601	2.967	27.570
1999.	2.227	34.641	2.087	27.676
2501.	1.877	34.662	1.699	27.724
3004.	1.683	34.672	1.462	27.749

CAST GP3-97-KA-0321 LAT 00 02.4S LONG 170 03.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.868	34.890	29.866	21.691
200.	14.387	35.055	14.358	26.158
600.	6.752	34.572	6.695	27.119
801.	5.248	34.543	5.181	27.294
1000.	4.719	34.550	4.637	27.360
1249.	3.857	34.571	3.761	27.470
1503.	3.034	34.602	2.926	27.574
1502.	3.039	34.603	2.931	27.574

CAST GP3-97-KA-0331 LAT 00 30.1N LONG 170 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
12.	29.812	34.891	29.809	21.712
201.	13.098	34.888	13.071	26.289
601.	6.845	34.569	6.788	27.110
802.	5.279	34.545	5.212	27.290
1002.	4.769	34.550	4.688	27.354
1002.	4.769	34.549	4.687	27.354

CAST GP3-97-KA-0341 LAT 00 59.6N LONG 169 58.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.740	34.758	29.737	21.633
200.	12.670	34.829	12.643	26.337
601.	7.008	34.576	6.951	27.092
799.	5.546	34.546	5.477	27.259
1004.	4.624	34.553	4.543	27.373
1004.	4.626	34.553	4.545	27.372

CAST GP3-97-KA-0351 LAT 01 30.2N LONG 169 57.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.769	34.795	29.767	21.654
200.	11.973	34.846	11.947	26.481
600.	7.014	34.575	6.957	27.089
800.	5.610	34.549	5.540	27.253
1004.	4.539	34.557	4.458	27.383
1004.	4.535	34.556	4.455	27.384

CAST GP3-97-KA-0361 LAT 01 58.0N LONG 169 55.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.768	34.818	29.765	21.673
103.	27.902	35.399	27.878	22.737
602.	6.972	34.565	6.915	27.089
801.	5.388	34.547	5.320	27.279
1001.	4.515	34.557	4.436	27.386
1001.	4.515	34.557	4.435	27.386

CAST GP3-97-KA-0371 LAT 03 00.3N LONG 169 54.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.768	34.778	29.765	21.643
201.	11.181	34.667	11.156	26.506
801.	5.339	34.573	5.271	27.284
1003.	4.479	34.546	4.400	27.392
1002.	4.480	34.558	4.400	27.392

CAST GP3-97-KA-0381 LAT 03 59.5N LONG 169 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.588	34.775	29.585	21.700
201.	12.521	34.589	12.495	26.170
600.	7.048	34.573	6.990	27.085
800.	5.463	34.545	5.395	27.268
1004.	4.536	34.556	4.456	27.385
1004.	4.536	34.556	4.456	27.385

CAST GP3-97-KA-0391 LAT 04 56.8N LONG 169 55.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.305	34.715	29.302	21.751
201.	11.138	34.599	11.113	26.444
601.	7.059	34.574	7.001	27.084
799.	5.539	34.547	5.470	27.260
1003.	4.508	34.563	4.428	27.392
1003.	4.509	34.562	4.429	27.392

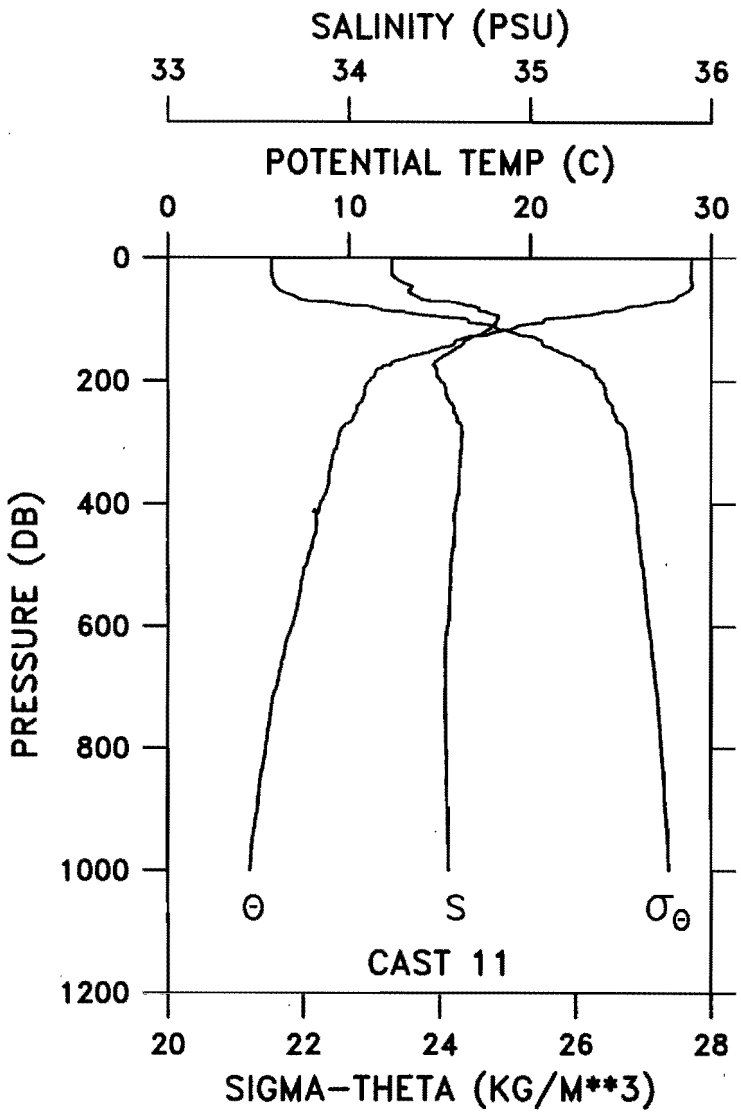
CAST GP3-97-KA-0401 LAT 04 57.6N LONG 169 58.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.283	34.725	29.281	21.765
102.	26.607	34.884	26.584	22.749
201.	10.862	34.570	10.837	26.471
301.	9.471	34.654	9.437	26.778
401.	8.791	34.635	8.748	26.873
502.	7.933	34.604	7.882	26.980

CAST GP3-97-KA-0411 LAT 08 02.3N LONG 170 03.3W

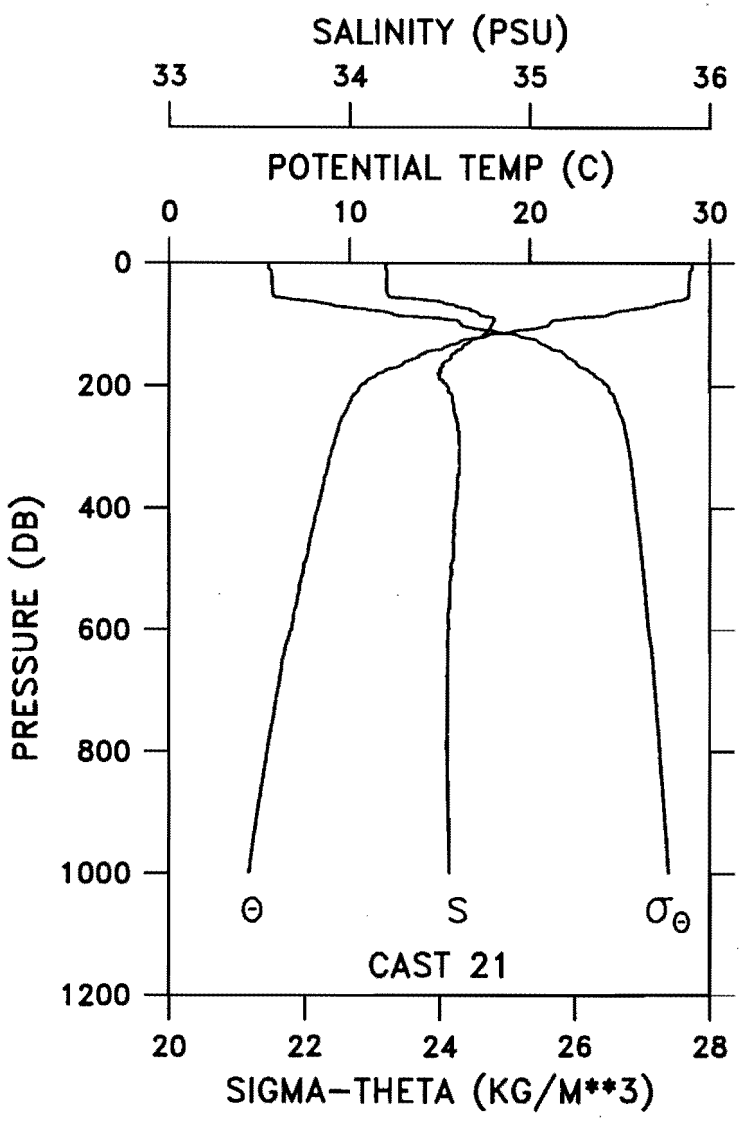
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.091	34.371	29.089	21.564
502.	7.966	34.597	7.915	26.971
1000.	4.371	34.561	4.293	27.407
1502.	2.947	34.610	2.840	27.583
1999.	2.233	34.639	2.093	27.675
2502.	1.885	34.660	1.707	27.723
2754.	1.782	34.668	1.582	27.737
3001.	1.694	34.672	1.473	27.750
3248.	1.600	34.678	1.357	27.762
3498.	1.523	34.683	1.257	27.774
3749.	1.440	34.689	1.149	27.785
4002.	1.346	34.694	1.031	27.798

GP4-97-KA
June 8–July 3, 1997
CTD and Hydrographic Data Summary



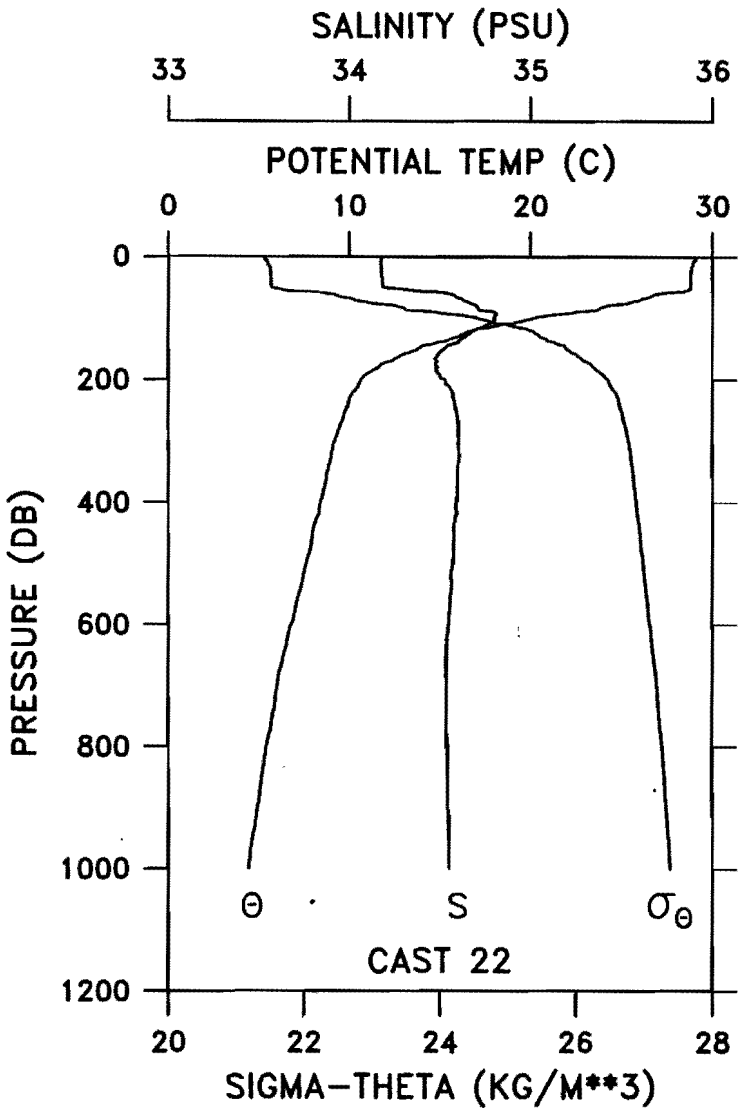
CAST GP4-97-KA-0011 DATE 08 JUN 97 TIME 1328 GMT
LAT 08 42.0N LONG 167 16.3E WEATHER 1 SEA STATE 2
BAROMETER 11 WIND DIR 023 T SPD 08 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 27.8 WET 25.2 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.901	34.238	21.527	0.000
10	28.905	34.237	21.525	0.063
20	28.897	34.237	21.528	0.125
30	28.881	34.246	21.540	0.188
40	28.933	34.299	21.562	0.251
50	28.839	34.344	21.627	0.313
60	28.270	34.355	21.824	0.374
70	27.674	34.445	22.086	0.433
80	25.311	34.707	23.027	0.486
90	23.656	34.773	23.573	0.532
100	20.768	34.818	24.420	0.572
110	19.315	34.795	24.785	0.606
120	18.091	34.745	25.055	0.637
130	16.304	34.667	25.422	0.665
140	15.783	34.628	25.512	0.690
150	14.613	34.573	25.728	0.714
160	13.354	34.514	25.946	0.736
170	12.366	34.472	26.109	0.756
180	11.584	34.483	26.266	0.775
190	11.417	34.486	26.299	0.793
200	11.131	34.506	26.368	0.810
250	10.416	34.576	26.550	0.890
300	9.384	34.622	26.760	0.961
350	8.933	34.610	26.824	1.026
400	8.433	34.590	26.887	1.090
450	8.141	34.583	26.925	1.151
500	7.664	34.561	26.979	1.210
550	7.285	34.558	27.031	1.266
600	6.881	34.546	27.078	1.321
650	6.412	34.532	27.130	1.373
700	6.007	34.533	27.183	1.423
750	5.641	34.533	27.229	1.470
800	5.385	34.537	27.263	1.516
900	4.938	34.544	27.321	1.604
1000	4.511	34.551	27.375	1.686
1500	2.926	34.597	27.570	2.032
2000	2.105	34.634	27.670	2.315
2500	1.690	34.658	27.722	2.563
3000	1.442	34.671	27.751	2.796
3500	1.236	34.683	27.774	3.021
4000	1.082	34.693	27.793	3.238
4004	1.081	34.693	27.793	3.239



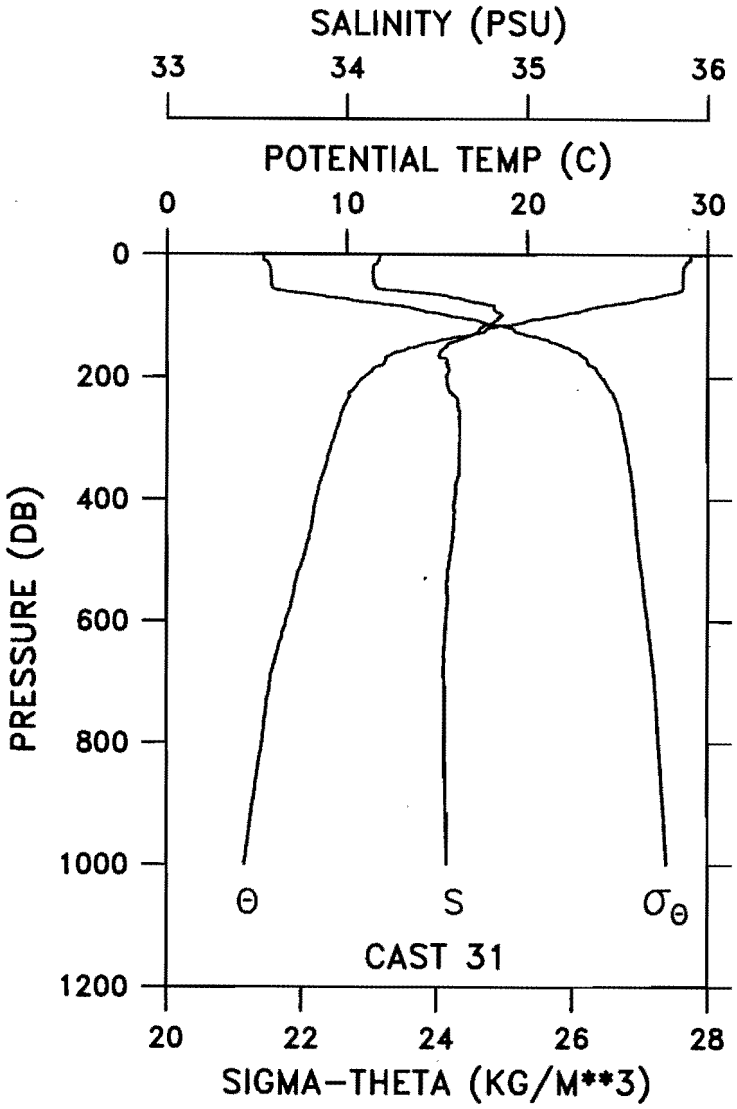
CAST GP4-97-KA-0021 DATE 09 JUN 97 TIME 1014 GMT
LAT 07 58.3N LONG 164 58.6E WEATHER 1 SEA STATE 2
BAROMETER 11 WIND DIR 070 T SPD 01 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 25.1 DEPTH 5183 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.021	34.202	21.460	0.000
10	29.018	34.199	21.459	0.063
20	28.885	34.206	21.508	0.126
30	28.864	34.203	21.514	0.189
40	28.864	34.206	21.515	0.252
50	28.847	34.211	21.525	0.315
60	28.399	34.418	21.829	0.377
70	26.899	34.594	22.446	0.434
80	24.711	34.707	23.209	0.484
90	22.288	34.804	23.989	0.529
100	21.069	34.790	24.316	0.566
110	19.265	34.769	24.778	0.601
120	17.473	34.733	25.197	0.630
130	16.022	34.660	25.482	0.656
140	15.148	34.619	25.647	0.681
150	13.892	34.563	25.872	0.703
160	13.142	34.537	26.006	0.724
170	12.584	34.511	26.097	0.744
180	11.587	34.487	26.269	0.763
190	11.000	34.512	26.396	0.780
200	10.615	34.540	26.486	0.797
250	9.622	34.590	26.696	0.871
300	9.087	34.612	26.800	0.938
350	8.597	34.598	26.867	1.001
400	8.256	34.587	26.911	1.063
450	7.830	34.577	26.967	1.122
500	7.451	34.564	27.012	1.179
550	7.096	34.556	27.056	1.234
600	6.779	34.551	27.096	1.288
650	6.266	34.547	27.161	1.339
700	5.993	34.543	27.193	1.388
750	5.718	34.544	27.228	1.435
800	5.408	34.544	27.266	1.481
900	4.874	34.547	27.331	1.569
1000	4.387	34.557	27.393	1.650
1500	2.978	34.597	27.566	1.998
2000	2.091	34.635	27.672	2.281
2500	1.695	34.659	27.722	2.528
3000	1.459	34.671	27.749	2.761
3005	1.457	34.670	27.749	2.764



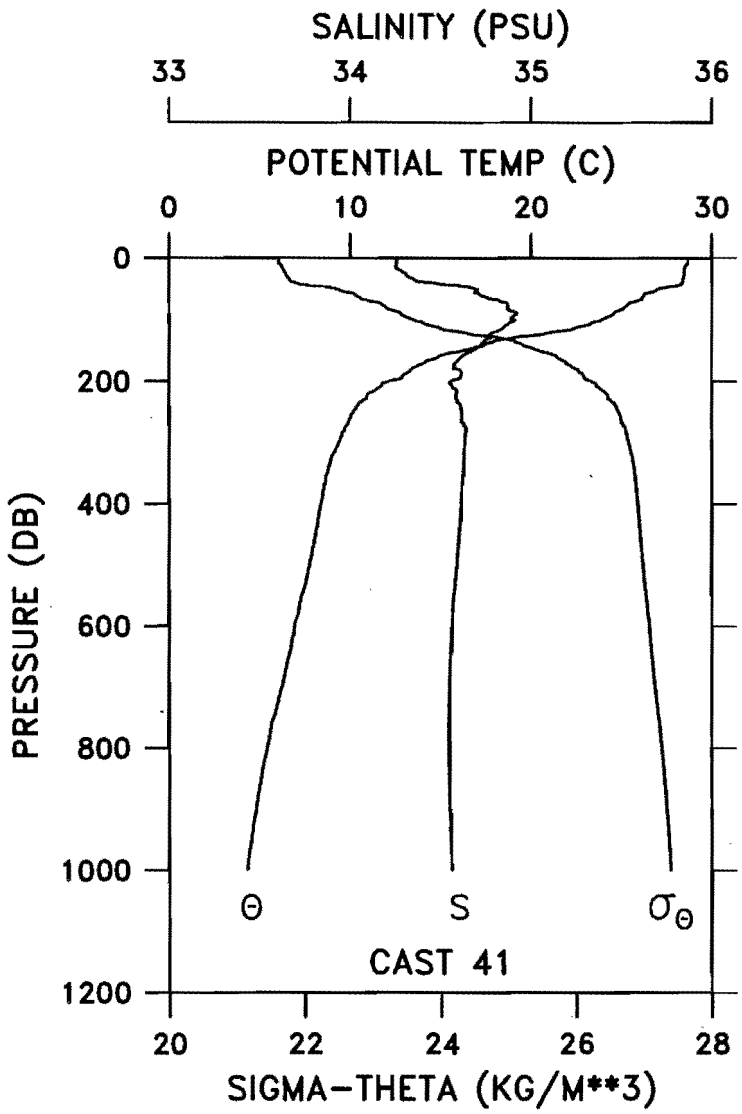
CAST GP4-97-KA-0022 DATE 09 JUN 97 TIME 2342 GMT
LAT 07 59.6N LONG 165 04.3E WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 050 T SPD 06 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 29.6 WET 26.4 DEPTH 5210 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.101	34.181	21.418	0.000
10	28.951	34.177	21.465	0.064
20	28.845	34.178	21.501	0.127
30	28.826	34.180	21.509	0.190
40	28.830	34.185	21.511	0.253
50	28.825	34.202	21.526	0.316
60	27.047	34.551	22.367	0.375
70	26.044	34.628	22.741	0.428
80	24.158	34.707	23.374	0.477
90	22.431	34.808	23.952	0.521
100	20.165	34.799	24.566	0.557
110	18.412	34.764	24.990	0.590
120	16.758	34.690	25.334	0.618
130	16.005	34.643	25.473	0.644
140	14.787	34.593	25.705	0.668
150	13.776	34.523	25.866	0.691
160	12.899	34.489	26.018	0.712
170	12.278	34.486	26.137	0.731
180	11.583	34.487	26.270	0.750
190	10.980	34.495	26.387	0.767
200	10.660	34.530	26.471	0.784
250	9.822	34.591	26.664	0.858
300	9.232	34.606	26.772	0.927
350	8.797	34.602	26.839	0.992
400	8.433	34.593	26.889	1.055
450	7.997	34.582	26.946	1.115
500	7.650	34.574	26.991	1.174
550	7.237	34.563	27.041	1.230
600	6.815	34.550	27.090	1.284
650	6.363	34.536	27.139	1.336
700	6.012	34.538	27.186	1.385
750	5.752	34.538	27.219	1.433
800	5.407	34.543	27.265	1.480
900	4.913	34.547	27.327	1.567
1000	4.418	34.556	27.388	1.649
1006	4.399	34.556	27.391	1.653



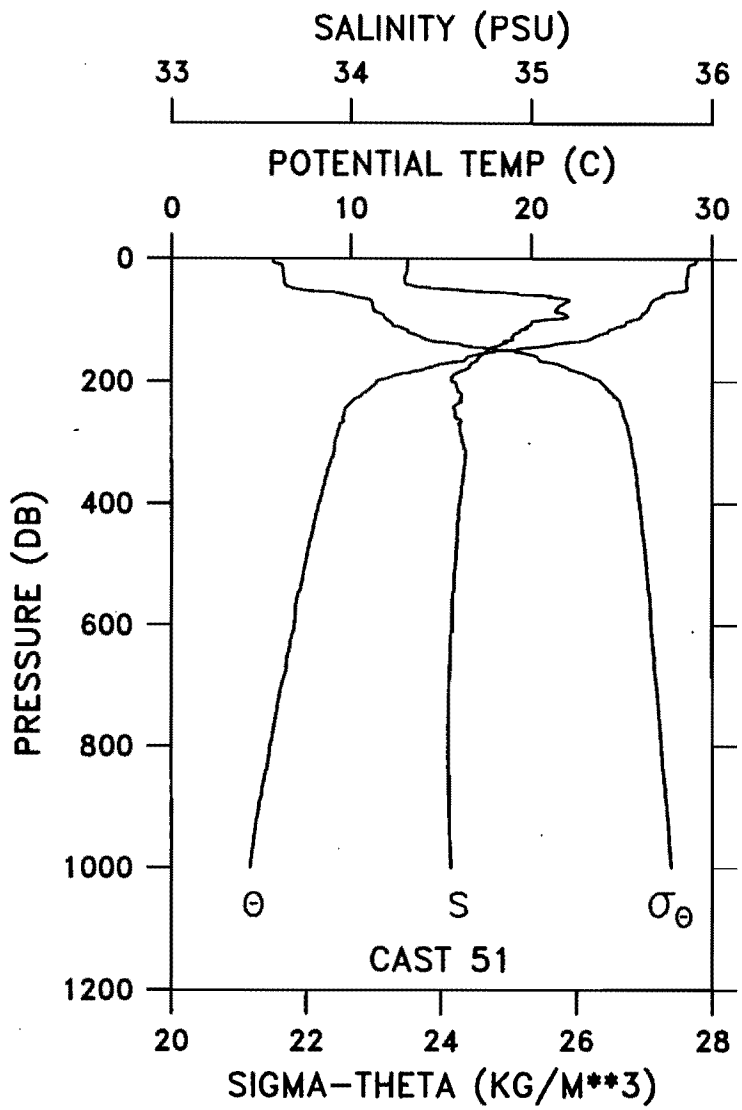
CAST GP4-97-KA-0031 DATE 10 JUN 97 TIME 0525 GMT
LAT 06 59.9N LONG 165 00.2E WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 061 T SPD 03 KT VISIBILITY 7
CLOUD 2 AMOUNT 0 DRY 30.2 WET 25.4 DEPTH 5121 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.054	34.183	21.435	0.000
10	29.051	34.180	21.434	0.064
20	28.674	34.145	21.533	0.127
30	28.640	34.145	21.544	0.189
40	28.623	34.148	21.552	0.252
50	28.626	34.155	21.557	0.314
60	28.396	34.319	21.755	0.377
70	26.956	34.579	22.417	0.434
80	24.945	34.763	23.180	0.485
90	23.253	34.818	23.724	0.529
100	21.761	34.861	24.181	0.569
110	19.850	34.813	24.660	0.604
120	17.844	34.743	25.115	0.635
130	17.004	34.705	25.288	0.663
140	15.130	34.615	25.648	0.689
150	13.929	34.555	25.858	0.711
160	12.640	34.519	26.092	0.732
170	12.175	34.553	26.209	0.751
180	11.974	34.563	26.255	0.769
190	11.411	34.567	26.364	0.787
200	11.001	34.553	26.428	0.803
250	9.841	34.620	26.683	0.879
300	9.307	34.632	26.781	0.947
350	8.806	34.625	26.856	1.011
400	8.324	34.601	26.912	1.072
450	8.034	34.594	26.950	1.132
500	7.595	34.572	26.998	1.190
550	7.091	34.557	27.057	1.245
600	6.633	34.552	27.116	1.298
650	6.161	34.540	27.169	1.349
700	5.761	34.542	27.221	1.397
750	5.509	34.543	27.253	1.443
800	5.304	34.545	27.279	1.488
900	4.775	34.551	27.345	1.573
1000	4.337	34.559	27.400	1.653
1003	4.327	34.558	27.400	1.656



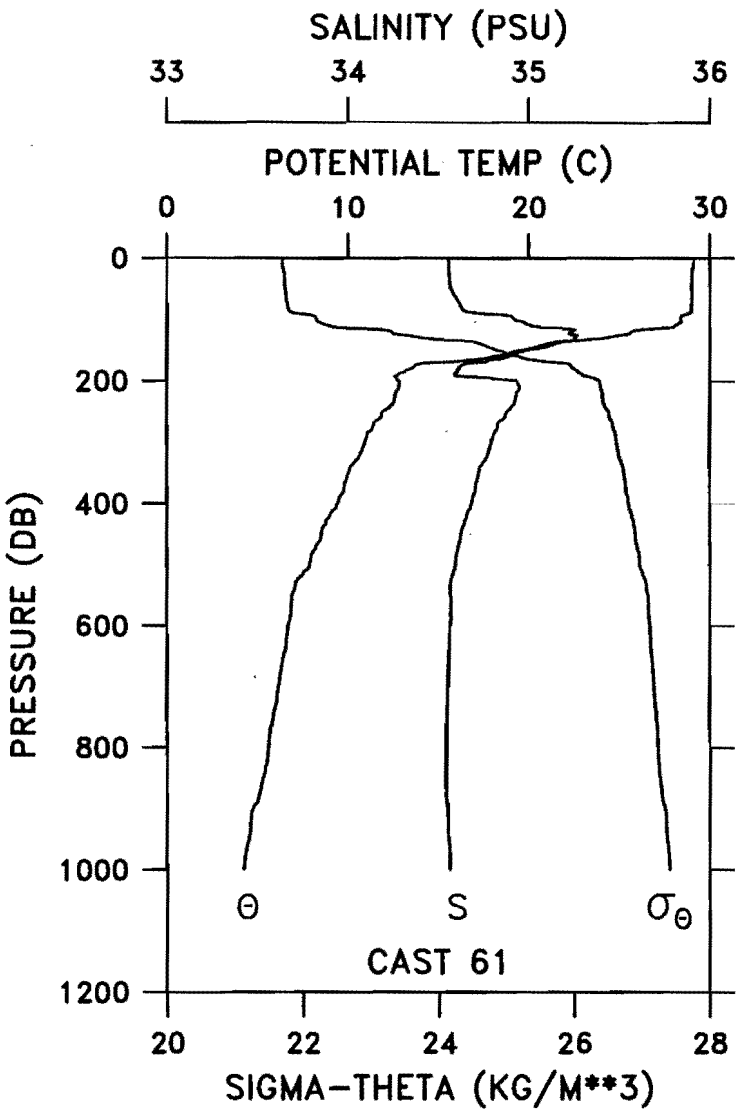
CAST GP4-97-KA-0041 DATE 10 JUN 97 TIME 1153 GMT
LAT 06 00.0N LONG 165 00.0E WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 029 T SPD 03 KT VISIBILITY 7
CLOUD 2 AMOUNT 0 DRY 27.3 WET 25.5 DEPTH 4998 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.699	34.259	21.610	0.000
10	28.624	34.255	21.632	0.062
20	28.501	34.278	21.690	0.123
30	28.470	34.319	21.731	0.184
40	28.382	34.448	21.857	0.245
50	27.084	34.689	22.459	0.302
60	26.244	34.716	22.745	0.354
70	25.813	34.825	22.961	0.405
80	25.156	34.868	23.196	0.452
90	24.571	34.921	23.413	0.498
100	23.884	34.904	23.605	0.543
110	22.883	34.853	23.857	0.585
120	21.166	34.794	24.293	0.624
130	18.806	34.763	24.891	0.658
140	17.395	34.722	25.207	0.687
150	16.205	34.674	25.450	0.714
160	14.859	34.613	25.705	0.738
170	14.079	34.581	25.847	0.761
180	13.364	34.585	25.999	0.782
190	12.938	34.611	26.104	0.802
200	12.126	34.554	26.219	0.821
250	10.176	34.614	26.621	0.902
300	9.352	34.633	26.774	0.972
350	8.743	34.622	26.864	1.036
400	8.392	34.611	26.909	1.097
450	8.094	34.600	26.946	1.157
500	7.755	34.587	26.986	1.216
550	7.317	34.568	27.034	1.272
600	6.923	34.561	27.084	1.327
650	6.589	34.553	27.123	1.380
700	6.227	34.547	27.166	1.430
750	5.767	34.544	27.222	1.479
800	5.394	34.545	27.268	1.525
900	4.805	34.550	27.341	1.611
1000	4.321	34.559	27.401	1.691
1001	4.319	34.559	27.401	1.691



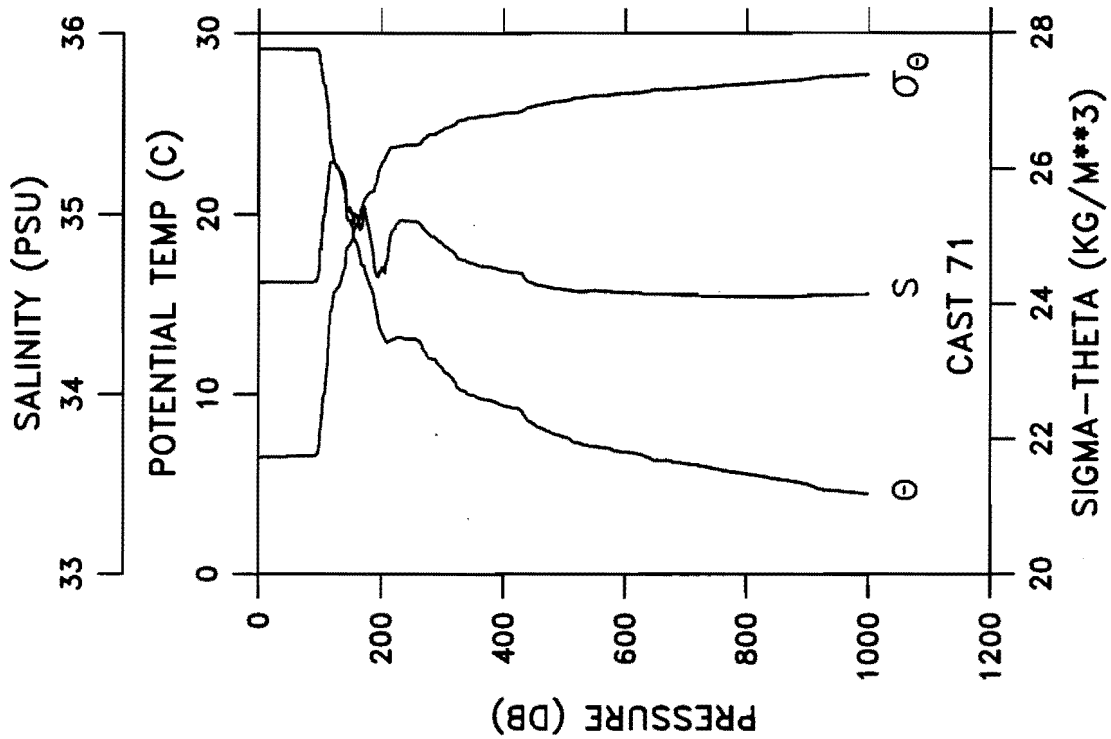
CAST GP4-97-KA-0051 DATE 11 JUN 97 TIME 0401 GMT
LAT 05 02.5N LONG 165 02.5E WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 131 T SPD 03 KT VISIBILITY 7
CLOUD 2 AMOUNT 0 DRY 28.8 WET 25.6 DEPTH 4786 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.118	34.317	21.514	0.000
10	28.757	34.317	21.635	0.063
20	28.673	34.313	21.660	0.124
30	28.606	34.300	21.672	0.186
40	28.586	34.306	21.683	0.247
50	28.578	34.555	21.872	0.308
60	27.331	35.075	22.670	0.363
70	26.649	35.200	22.982	0.413
80	26.478	35.148	22.997	0.462
90	26.145	35.181	23.127	0.511
100	25.588	35.070	23.216	0.558
110	25.024	34.982	23.322	0.605
120	24.254	34.933	23.517	0.649
130	23.368	34.897	23.750	0.692
140	21.227	34.832	24.306	0.732
150	18.199	34.753	25.035	0.766
160	16.468	34.713	25.420	0.794
170	15.435	34.674	25.625	0.819
180	14.091	34.641	25.891	0.842
190	12.446	34.569	26.169	0.862
200	11.433	34.560	26.354	0.880
250	9.644	34.580	26.684	0.956
300	9.111	34.621	26.804	1.024
350	8.687	34.626	26.875	1.087
400	8.230	34.604	26.928	1.148
450	7.843	34.593	26.977	1.206
500	7.454	34.582	27.026	1.263
550	7.040	34.568	27.073	1.318
600	6.851	34.564	27.096	1.371
650	6.465	34.555	27.141	1.423
700	6.124	34.547	27.179	1.473
750	5.799	34.544	27.217	1.521
800	5.499	34.543	27.254	1.568
900	4.874	34.547	27.331	1.656
1000	4.379	34.558	27.395	1.737
1005	4.356	34.558	27.397	1.741



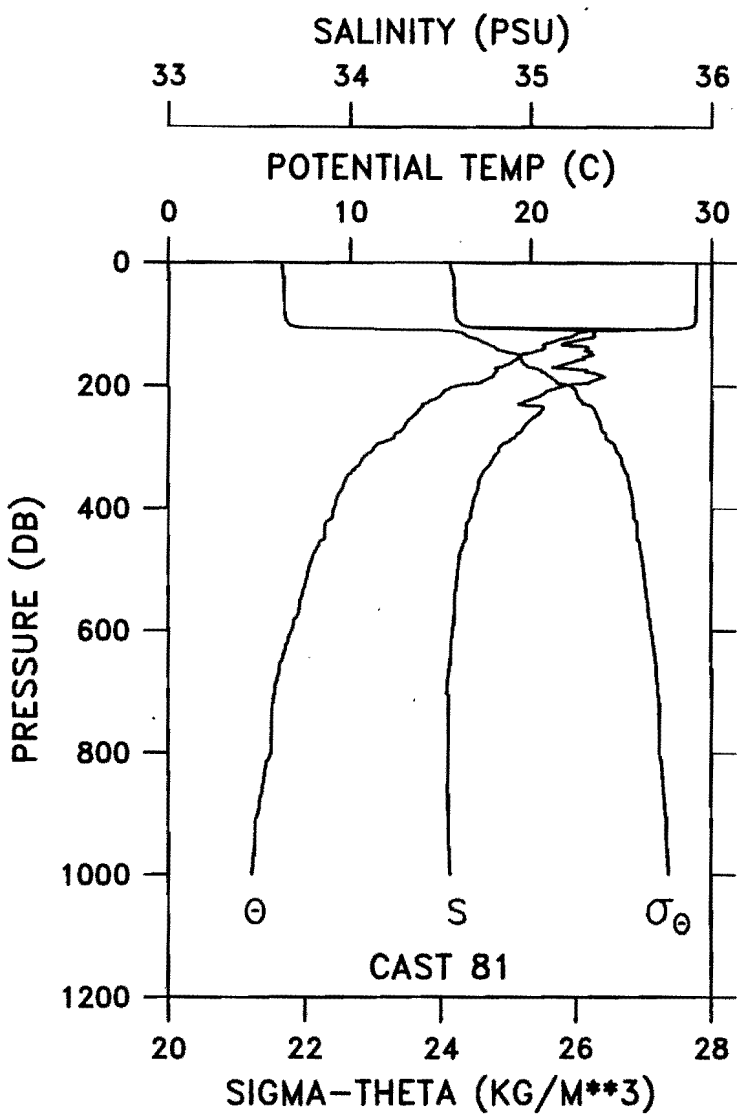
CAST GP4-97-KA-0061 DATE 12 JUN 97 TIME 0852 GMT
LAT 01 34.7N LONG 162 53.6E WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 290 T SPD 10 KT VISIBILITY 7
CLOUD 2 AMOUNT 0 DRY 28.5 WET 25.7 DEPTH 4254 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.108	34.558	21.698	0.000
10	29.112	34.557	21.697	0.061
20	29.031	34.556	21.723	0.122
30	29.014	34.558	21.730	0.183
40	29.009	34.562	21.735	0.244
50	29.005	34.570	21.742	0.305
60	29.007	34.586	21.753	0.365
70	29.009	34.608	21.769	0.426
80	28.994	34.625	21.787	0.487
90	28.873	34.728	21.905	0.547
100	28.405	34.922	22.206	0.604
110	28.041	35.011	22.392	0.660
120	25.680	35.234	23.311	0.710
130	24.181	35.253	23.781	0.755
140	20.915	35.138	24.623	0.791
150	19.516	34.981	24.875	0.824
160	17.979	34.885	25.190	0.854
170	14.661	34.696	25.812	0.880
180	13.464	34.611	25.998	0.901
190	12.761	34.591	26.125	0.921
200	12.814	34.932	26.378	0.939
250	11.903	34.876	26.511	1.022
300	10.917	34.790	26.627	1.098
350	10.008	34.721	26.733	1.169
400	9.420	34.679	26.799	1.237
450	8.511	34.620	26.898	1.301
500	7.886	34.591	26.970	1.361
550	6.885	34.563	27.091	1.416
600	6.683	34.563	27.118	1.468
650	6.416	34.553	27.146	1.519
700	6.134	34.548	27.179	1.569
750	5.846	34.545	27.213	1.617
800	5.598	34.539	27.239	1.664
900	4.749	34.547	27.345	1.754
1000	4.239	34.560	27.411	1.833
1002	4.238	34.559	27.411	1.834



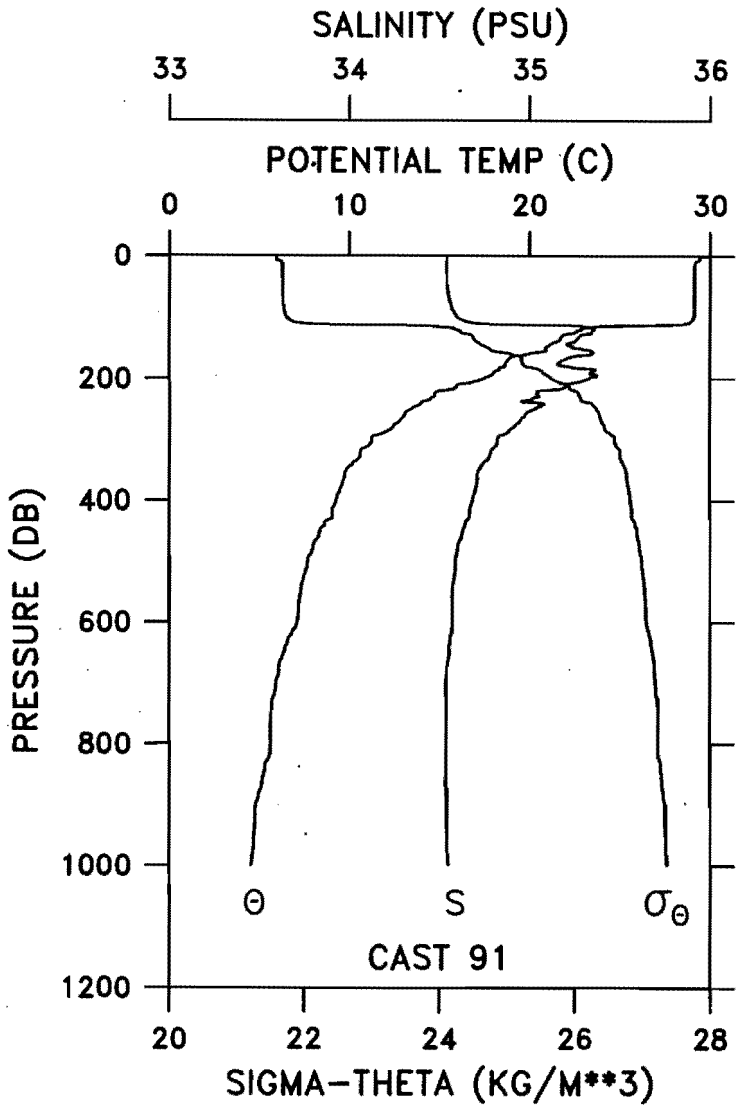
CAST GP4-97-KA-0071 DATE 12 JUN 97 TIME 1458 GMT
LAT 00 59.9N LONG 163 39.3E WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 294 T SPD 11 KT VISIBILITY 7
CLOUD 2 AMOUNT 0 DRY 28.2 WET 25.6 DEPTH 4295 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.148	34.620	21.732	0.000
10	29.146	34.622	21.734	0.061
20	29.149	34.622	21.733	0.121
30	29.150	34.622	21.733	0.182
40	29.148	34.622	21.733	0.243
50	29.114	34.623	21.745	0.304
60	29.109	34.623	21.747	0.365
70	29.109	34.624	21.748	0.426
80	29.110	34.626	21.749	0.486
90	29.092	34.626	21.755	0.547
100	28.354	34.798	22.129	0.608
110	26.550	35.102	22.939	0.661
120	23.547	35.287	23.994	0.705
130	22.571	35.252	24.249	0.743
140	21.356	35.178	24.534	0.779
150	19.535	35.019	24.899	0.811
160	18.347	34.995	25.183	0.840
170	17.131	34.981	25.470	0.867
180	16.167	34.909	25.640	0.892
190	14.839	34.676	25.758	0.916
200	13.444	34.692	26.065	0.937
250	13.055	34.960	26.351	1.026
300	11.445	34.835	26.566	1.108
350	9.956	34.726	26.746	1.180
400	9.349	34.684	26.814	1.247
450	8.347	34.614	26.918	1.311
500	7.601	34.580	27.003	1.369
550	7.086	34.574	27.072	1.424
600	6.764	34.563	27.107	1.477
650	6.303	34.557	27.163	1.528
700	6.117	34.549	27.182	1.578
750	5.833	34.545	27.214	1.626
800	5.560	34.541	27.245	1.673
900	4.972	34.545	27.318	1.762
1000	4.446	34.554	27.384	1.843
1006	4.424	34.554	27.386	1.848



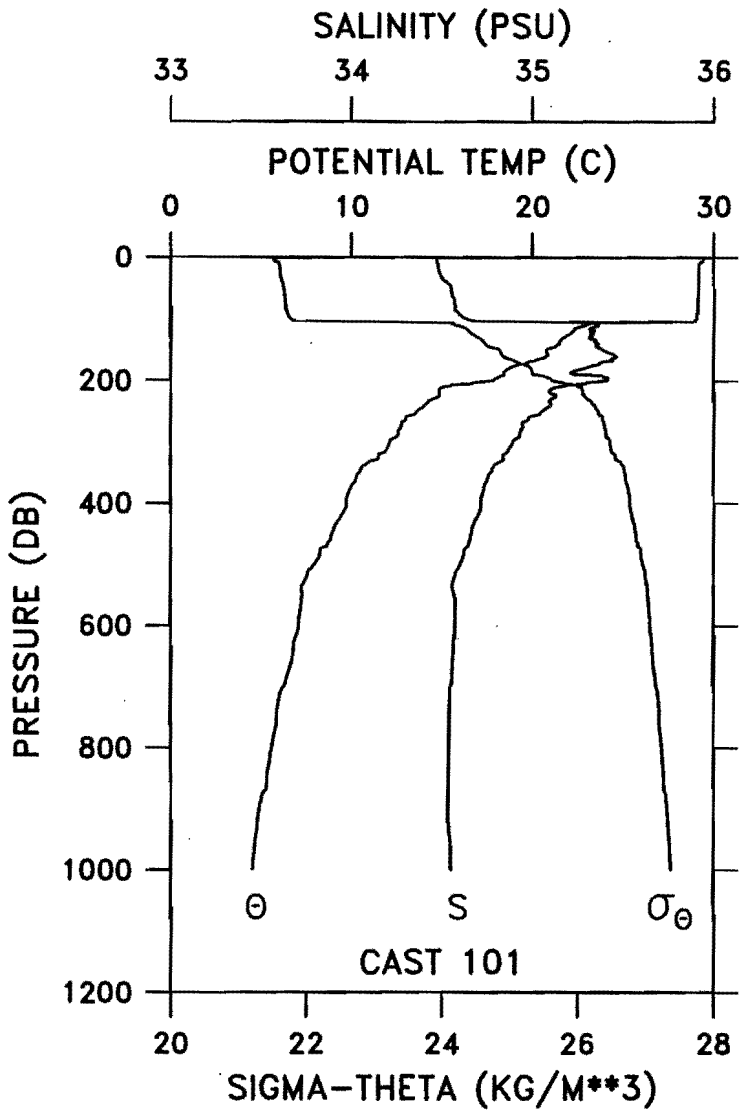
CAST GP4-97-KA-0081 DATE 13 JUN 97 TIME 1008 GMT
LAT 00 00.3N LONG 165 15.3E WEATHER 6 SEA STATE 3
BAROMETER 12 WIND DIR 292 T SPD 16 KT VISIBILITY 5
CLOUD 8 AMOUNT 7 DRY 23.4 WET 23.0 DEPTH 4387 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.192	34.554	21.668	0.000
10	29.192	34.555	21.668	0.061
20	29.182	34.567	21.681	0.123
30	29.170	34.572	21.689	0.184
40	29.159	34.573	21.693	0.245
50	29.152	34.574	21.696	0.306
60	29.148	34.575	21.698	0.368
70	29.144	34.577	21.700	0.429
80	29.138	34.579	21.704	0.490
90	29.115	34.585	21.717	0.552
100	29.026	34.616	21.769	0.613
110	23.532	35.313	24.018	0.668
120	22.258	35.356	24.417	0.705
130	21.017	35.199	24.642	0.739
140	20.642	35.310	24.829	0.772
150	19.479	35.342	25.161	0.802
160	19.000	35.242	25.207	0.830
170	18.162	35.118	25.324	0.858
180	17.948	35.363	25.564	0.883
190	17.491	35.360	25.674	0.908
200	15.888	35.184	25.916	0.931
250	13.450	35.022	26.319	1.028
300	11.317	34.825	26.582	1.112
350	9.787	34.717	26.767	1.183
400	9.112	34.671	26.843	1.249
450	8.558	34.638	26.904	1.311
500	7.717	34.593	26.996	1.370
550	7.251	34.578	27.052	1.426
600	6.759	34.564	27.109	1.480
650	6.181	34.552	27.176	1.530
700	5.844	34.535	27.205	1.578
750	5.678	34.542	27.231	1.625
800	5.643	34.541	27.235	1.672
900	4.922	34.541	27.320	1.760
1000	4.567	34.551	27.368	1.843
1500	2.973	34.600	27.568	2.191
2000	2.135	34.637	27.670	2.474
2500	1.676	34.662	27.726	2.719
3000	1.411	34.674	27.755	2.949
3004	1.409	34.674	27.755	2.951



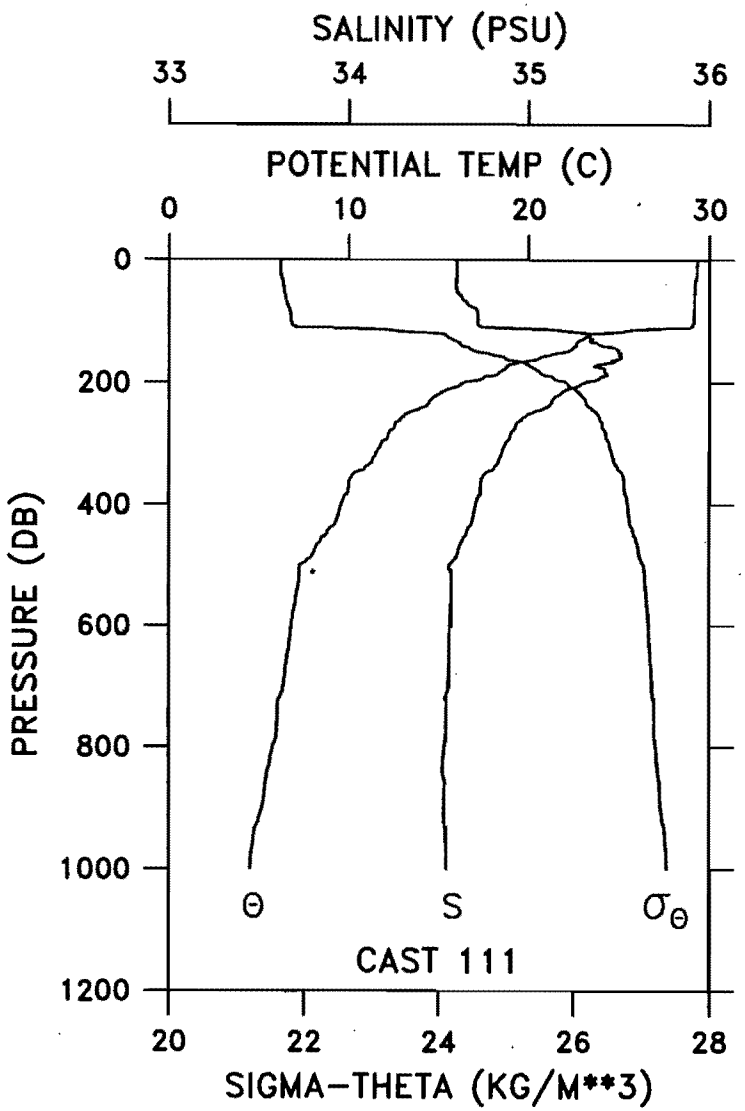
CAST GP4-97-KA-0091 DATE 14 JUN 97 TIME 0122 GMT
LAT 00 00.6N LONG 165 00.5E WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 191 T SPD 09 KT VISIBILITY 7
CLOUD 6 AMOUNT 8 DRY 29.2 WET 26.4 DEPTH 4387 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.413	34.546	21.587	0.000
10	29.164	34.541	21.667	0.062
20	29.137	34.541	21.676	0.123
30	29.133	34.542	21.678	0.185
40	29.132	34.543	21.679	0.246
50	29.131	34.545	21.681	0.307
60	29.133	34.549	21.684	0.369
70	29.134	34.555	21.688	0.430
80	29.132	34.566	21.696	0.492
90	29.125	34.580	21.709	0.553
100	29.078	34.604	21.743	0.614
110	28.642	34.712	21.969	0.675
120	22.867	35.359	24.246	0.719
130	21.791	35.277	24.489	0.755
140	21.448	35.244	24.559	0.789
150	20.852	35.241	24.719	0.823
160	19.878	35.341	25.055	0.854
170	18.791	35.182	25.215	0.883
180	18.623	35.208	25.277	0.911
190	17.997	35.334	25.530	0.937
200	17.450	35.328	25.659	0.961
250	13.435	35.027	26.326	1.063
300	11.249	34.820	26.591	1.146
350	9.843	34.718	26.759	1.218
400	9.285	34.684	26.825	1.284
450	8.388	34.630	26.925	1.347
500	7.718	34.591	26.995	1.406
550	7.329	34.574	27.037	1.462
600	7.120	34.574	27.067	1.517
650	6.378	34.558	27.155	1.569
700	5.948	34.539	27.195	1.618
750	5.693	34.542	27.229	1.665
800	5.641	34.541	27.235	1.712
900	4.809	34.544	27.335	1.801
1000	4.540	34.551	27.371	1.884
1003	4.538	34.551	27.371	1.887



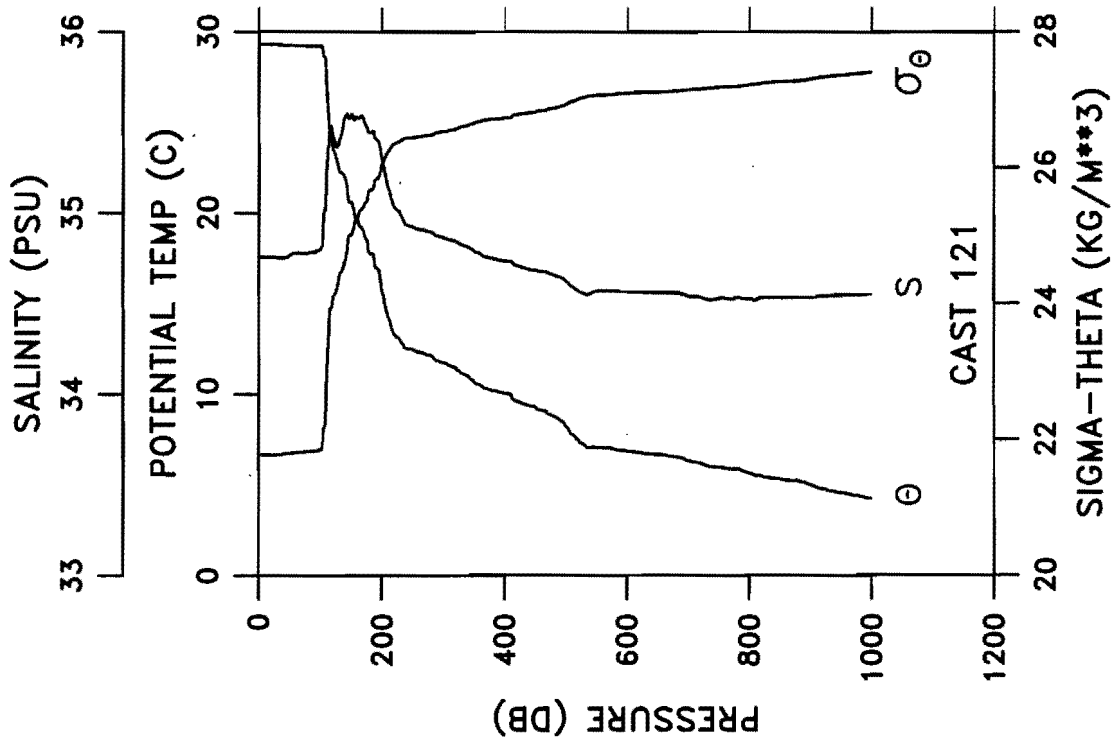
CAST GP4-97-KA-0101 DATE 14 JUN 97 TIME 0540 GMT
LAT 00 30.2S LONG 165 00.6E WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 168 T SPD 06 KT VISIBILITY 7
CLOUD 6 AMOUNT 8 DRY 28.3 WET 25.3 DEPTH 4417 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.430	34.476	21.529	0.000
10	29.213	34.477	21.603	0.062
20	29.193	34.485	21.615	0.124
30	29.192	34.497	21.625	0.186
40	29.189	34.528	21.649	0.248
50	29.169	34.552	21.674	0.310
60	29.151	34.556	21.683	0.371
70	29.151	34.573	21.695	0.433
80	29.136	34.575	21.702	0.494
90	29.106	34.593	21.725	0.555
100	29.047	34.640	21.780	0.616
110	22.987	35.353	24.207	0.665
120	22.250	35.333	24.402	0.701
130	21.723	35.316	24.537	0.736
140	21.497	35.368	24.639	0.770
150	20.783	35.388	24.849	0.803
160	20.771	35.458	24.906	0.834
170	19.733	35.378	25.122	0.864
180	18.747	35.291	25.309	0.892
190	18.453	35.251	25.353	0.919
200	17.793	35.401	25.631	0.944
250	13.636	35.054	26.305	1.042
300	12.114	34.892	26.484	1.127
350	10.447	34.773	26.698	1.204
400	9.758	34.717	26.773	1.272
450	8.948	34.664	26.864	1.338
500	7.990	34.603	26.964	1.399
550	7.307	34.569	27.036	1.456
600	7.107	34.574	27.068	1.510
650	6.749	34.563	27.109	1.564
700	6.244	34.550	27.166	1.615
750	5.873	34.542	27.207	1.663
800	5.584	34.540	27.242	1.711
900	4.896	34.539	27.322	1.800
1000	4.526	34.551	27.373	1.883
1008	4.521	34.550	27.373	1.889



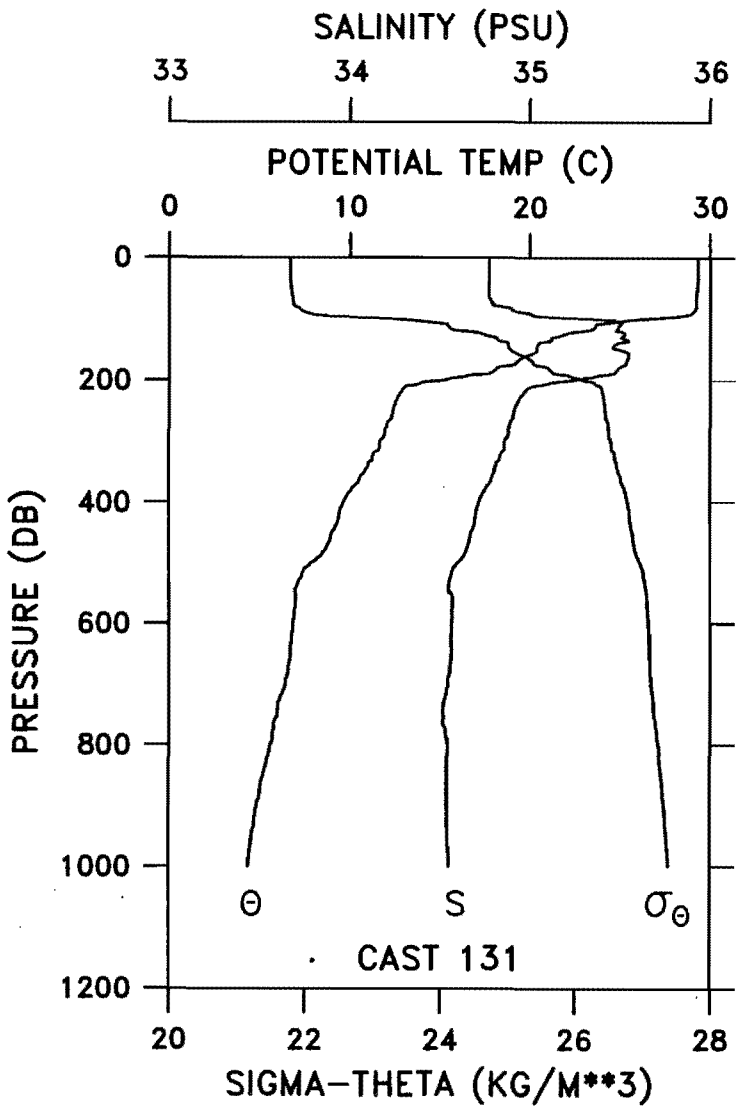
CAST GP4-97-KA-0111 DATE 14 JUN 97 TIME 1016 GMT
LAT 01 00.3S LONG 164 46.6E WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 174 T SPD 07 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 25.5 DEPTH 4387 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.323	34.600	21.658	0.000
10	29.326	34.599	21.656	0.061
20	29.321	34.600	21.659	0.123
30	29.279	34.598	21.671	0.184
40	29.205	34.597	21.695	0.246
50	29.193	34.600	21.701	0.307
60	29.183	34.627	21.725	0.368
70	29.184	34.657	21.747	0.429
80	29.182	34.708	21.786	0.490
90	29.156	34.717	21.802	0.550
100	29.136	34.718	21.810	0.611
110	28.914	34.755	21.911	0.671
120	23.720	35.338	23.982	0.718
130	22.973	35.358	24.214	0.757
140	22.665	35.406	24.340	0.794
150	22.119	35.496	24.563	0.829
160	20.624	35.510	24.985	0.861
170	19.112	35.398	25.298	0.889
180	18.527	35.422	25.465	0.916
190	17.605	35.406	25.681	0.941
200	16.429	35.314	25.891	0.964
250	13.329	35.016	26.339	1.061
300	11.804	34.871	26.526	1.144
350	10.241	34.754	26.719	1.220
400	9.570	34.706	26.795	1.288
450	8.713	34.651	26.891	1.353
500	7.259	34.559	27.035	1.412
550	7.069	34.571	27.072	1.466
600	6.785	34.564	27.105	1.519
650	6.561	34.560	27.132	1.571
700	6.341	34.555	27.157	1.622
750	6.017	34.546	27.192	1.671
800	5.744	34.532	27.215	1.720
900	5.168	34.533	27.285	1.812
1000	4.494	34.545	27.371	1.895
1003	4.487	34.545	27.373	1.898



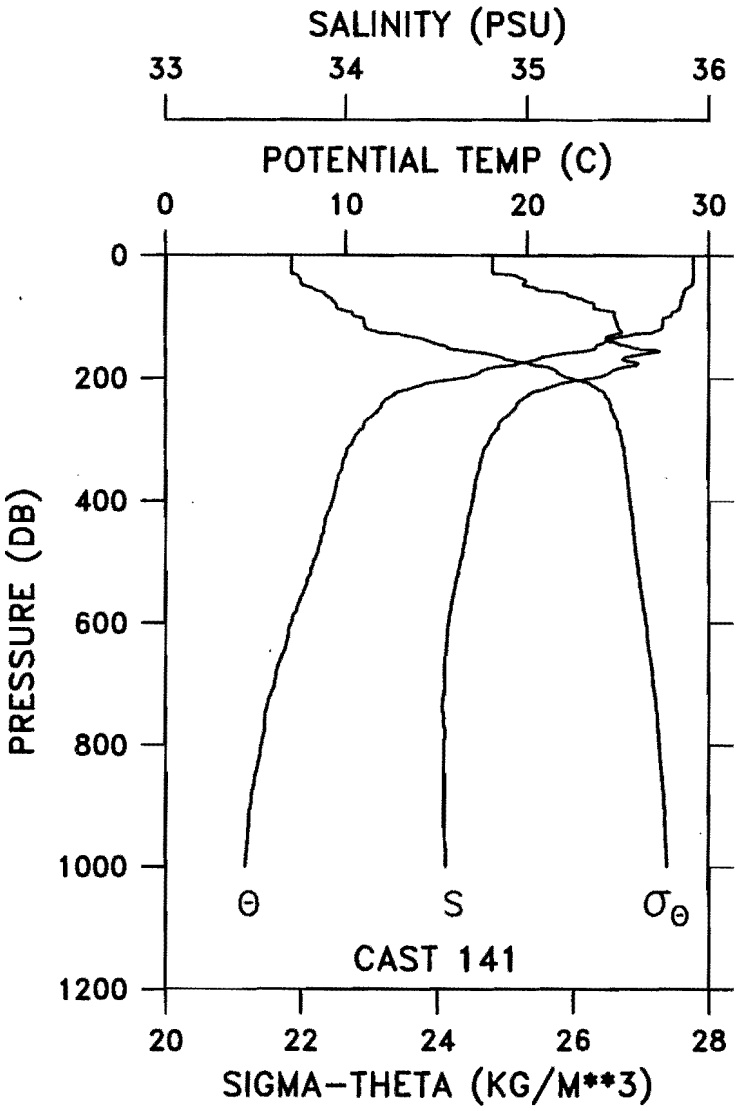
CAST GP4-97-KA-0121 DATE 14 JUN 97 TIME 0205 GMT
LAT 01 30.2S LONG 164 25.2E WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 168 T SPD 09 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.0 WET 25.0 DEPTH 4306 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.318	34.759	21.779	0.000
10	29.314	34.757	21.779	0.060
20	29.312	34.757	21.779	0.121
30	29.303	34.755	21.781	0.181
40	29.248	34.752	21.797	0.241
50	29.272	34.769	21.802	0.302
60	29.261	34.779	21.813	0.362
70	29.240	34.779	21.820	0.422
80	29.222	34.780	21.827	0.482
90	29.217	34.784	21.832	0.542
100	29.202	34.800	21.849	0.602
110	26.940	35.212	22.899	0.660
120	23.543	35.427	24.101	0.702
130	22.367	35.394	24.415	0.740
140	21.911	35.528	24.645	0.775
150	20.612	35.537	25.009	0.806
160	19.657	35.527	25.255	0.834
170	18.987	35.522	25.425	0.861
180	17.756	35.443	25.672	0.886
190	16.995	35.410	25.831	0.909
200	15.642	35.292	26.055	0.931
250	12.446	34.922	26.443	1.018
300	11.759	34.864	26.530	1.099
350	10.724	34.791	26.663	1.174
400	10.054	34.736	26.737	1.245
450	9.323	34.687	26.821	1.312
500	8.222	34.623	26.945	1.376
550	7.067	34.570	27.071	1.432
600	6.849	34.567	27.099	1.485
650	6.677	34.561	27.117	1.537
700	6.303	34.540	27.151	1.589
750	5.945	34.528	27.187	1.638
800	5.632	34.526	27.224	1.687
900	4.982	34.535	27.309	1.777
1000	4.223	34.551	27.406	1.858
1002	4.211	34.551	27.407	1.859



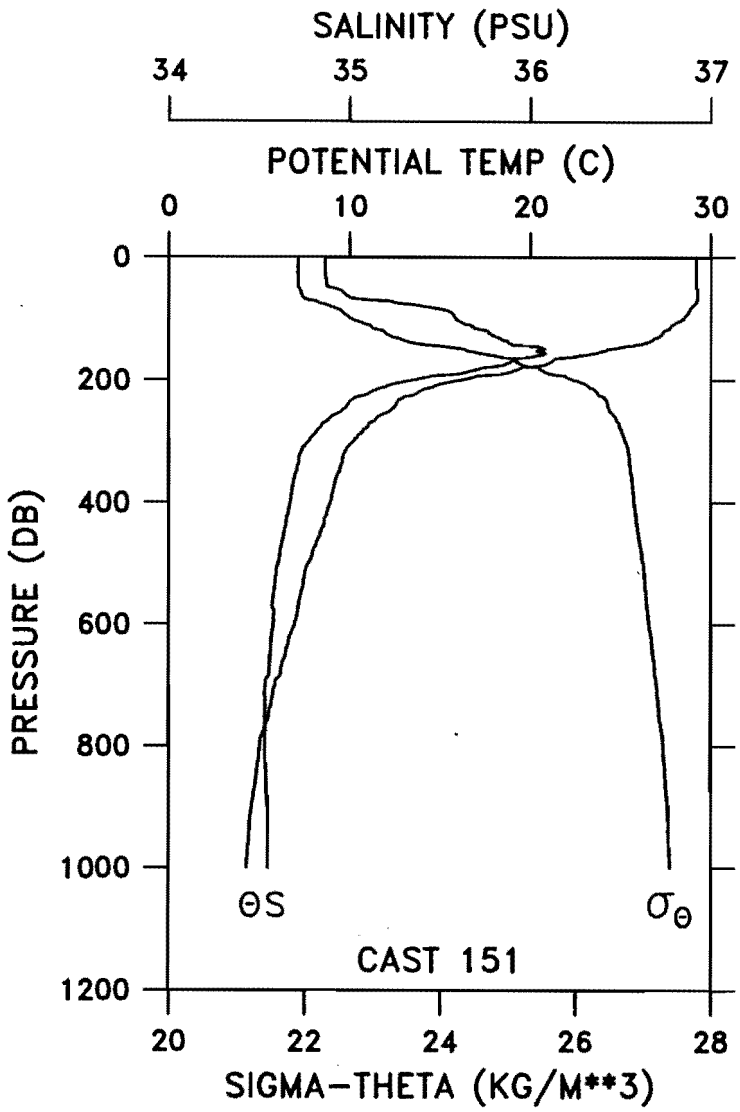
CAST GP4-97-KA-0131 DATE 15 JUN 97 TIME 0402 GMT
LAT 01 54.9S LONG 164 25.0E WEATHER 2 SEA STATE 3
BAROMETER 07 WIND DIR 172 T SPD 17 KT VISIBILITY 7
CLOUD 8 AMOUNT 9 DRY 28.8 WET 25.0 DEPTH 4437 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.344	34.774	21.781	0.000
10	29.342	34.774	21.783	0.060
20	29.348	34.774	21.780	0.121
30	29.344	34.774	21.781	0.181
40	29.312	34.773	21.791	0.241
50	29.297	34.772	21.795	0.302
60	29.245	34.769	21.811	0.362
70	29.231	34.784	21.827	0.422
80	29.252	34.850	21.869	0.482
90	29.051	34.979	22.034	0.541
100	26.079	35.354	23.278	0.595
110	23.697	35.497	24.108	0.637
120	22.710	35.506	24.402	0.675
130	21.204	35.507	24.825	0.708
140	20.463	35.485	25.010	0.739
150	20.371	35.507	25.051	0.769
160	19.752	35.548	25.246	0.798
170	19.228	35.537	25.374	0.825
180	18.164	35.493	25.610	0.850
190	17.402	35.438	25.755	0.874
200	15.111	35.232	26.127	0.895
250	12.370	34.910	26.448	0.979
300	11.673	34.860	26.543	1.060
350	10.833	34.803	26.653	1.135
400	9.650	34.717	26.790	1.205
450	8.998	34.673	26.863	1.270
500	7.855	34.599	26.981	1.332
550	6.986	34.560	27.074	1.388
600	6.849	34.566	27.098	1.441
650	6.711	34.564	27.115	1.493
700	6.420	34.545	27.139	1.545
750	5.969	34.517	27.175	1.595
800	5.607	34.543	27.241	1.643
900	4.853	34.537	27.326	1.731
1000	4.371	34.550	27.389	1.813
1005	4.363	34.550	27.390	1.817



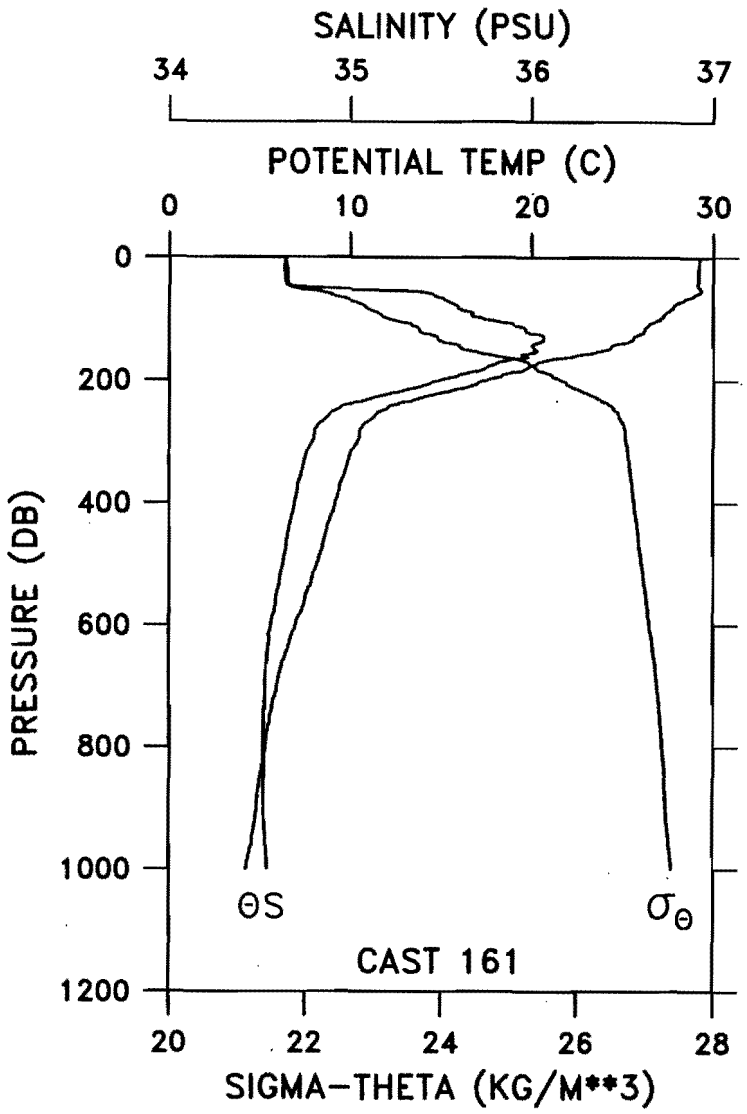
CAST GP4-97-KA-0141 DATE 15 JUN 97 TIME 1144 GMT
LAT 03 00.0S LONG 164 38.2E WEATHER 2 SEA STATE 3
BAROMETER 09 WIND DIR 169 T SPD 12 KT VISIBILITY 7
CLOUD 8 AMOUNT DRY 27.9 WET 24.8 DEPTH 4203 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.159	34.809	21.870	0.000
10	29.161	34.807	21.868	0.059
20	29.168	34.807	21.865	0.119
30	29.176	34.825	21.876	0.178
40	29.153	34.987	22.005	0.237
50	28.973	35.000	22.076	0.295
60	28.629	35.184	22.328	0.352
70	28.518	35.295	22.448	0.406
80	28.437	35.366	22.528	0.460
90	28.230	35.432	22.646	0.513
100	27.721	35.477	22.847	0.565
110	27.458	35.491	22.943	0.614
120	27.357	35.505	22.986	0.664
130	25.582	35.460	23.512	0.711
140	24.280	35.455	23.904	0.753
150	23.766	35.577	24.149	0.792
160	21.847	35.648	24.755	0.828
170	20.396	35.525	25.058	0.859
180	18.753	35.569	25.520	0.886
190	17.385	35.456	25.773	0.910
200	16.170	35.348	25.977	0.932
250	11.842	34.927	26.563	1.016
300	10.442	34.792	26.713	1.089
350	9.766	34.732	26.783	1.156
400	9.261	34.696	26.838	1.222
450	8.787	34.663	26.889	1.285
500	8.212	34.628	26.950	1.346
550	7.652	34.593	27.006	1.404
600	6.993	34.564	27.076	1.460
650	6.510	34.549	27.131	1.512
700	6.047	34.542	27.185	1.562
750	5.541	34.537	27.244	1.609
800	5.311	34.537	27.271	1.655
900	4.727	34.539	27.341	1.740
1000	4.394	34.548	27.385	1.821
1001	4.388	34.548	27.386	1.822



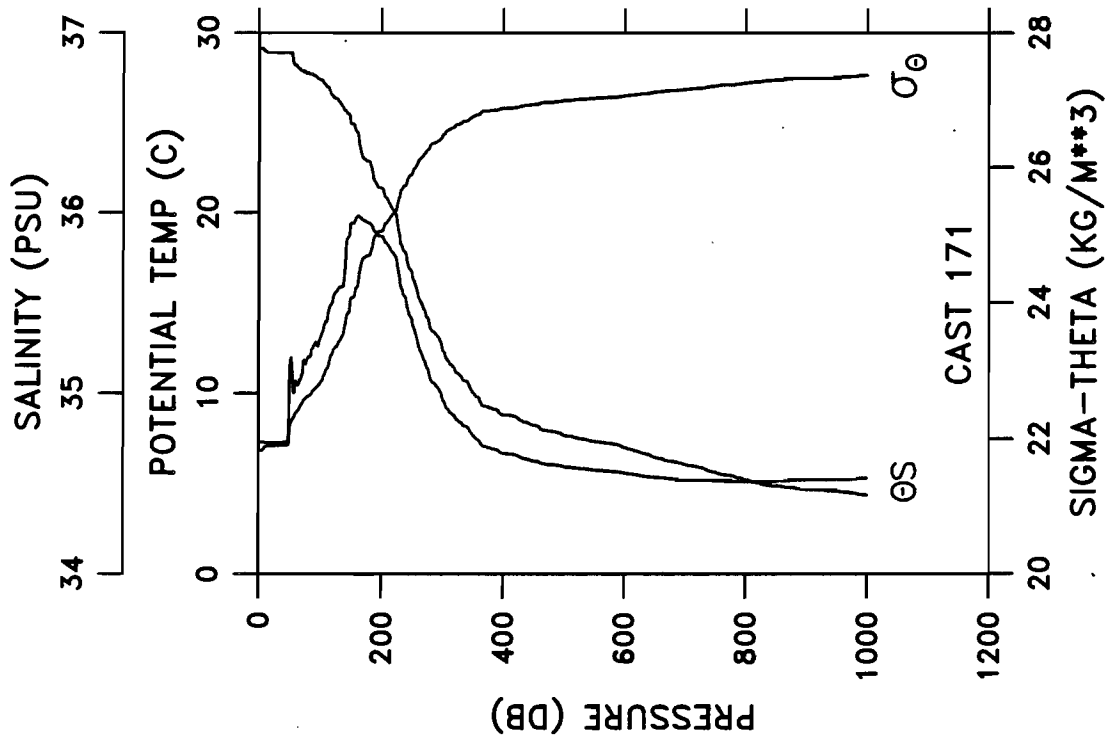
CAST GP4-97-KA-0151 DATE 15 JUN 97 TIME 1902 GMT
LAT 04 00.0S LONG 164 55.1E WEATHER 2 SEA STATE 3
BAROMETER 09 WIND DIR 190 T SPD 06 KT VISIBILITY 7
CLOUD 8 AMOUNT DRY 27.0 WET 23.5 DEPTH 3807 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.171	34.862	21.906	0.000
10	29.179	34.861	21.903	0.059
20	29.180	34.862	21.903	0.118
30	29.188	34.866	21.903	0.177
40	29.192	34.870	21.904	0.237
50	29.228	34.904	21.918	0.296
60	29.261	34.974	21.960	0.355
70	29.246	35.148	22.095	0.413
80	28.972	35.410	22.384	0.469
90	28.761	35.562	22.568	0.523
100	28.463	35.588	22.686	0.576
110	27.824	35.667	22.956	0.627
120	27.385	35.762	23.170	0.675
130	27.046	35.820	23.323	0.722
140	26.260	35.892	23.627	0.767
150	24.246	36.056	24.370	0.807
160	22.688	36.032	24.808	0.841
170	21.137	35.890	25.135	0.871
180	19.522	35.733	25.448	0.899
190	18.295	35.585	25.648	0.924
200	16.149	35.342	25.977	0.946
250	12.208	34.956	26.515	1.033
300	10.182	34.772	26.743	1.105
350	9.409	34.704	26.820	1.171
400	8.941	34.671	26.871	1.235
450	8.361	34.636	26.934	1.296
500	7.725	34.604	27.004	1.355
550	7.309	34.579	27.044	1.411
600	6.948	34.576	27.092	1.465
650	6.444	34.560	27.148	1.516
700	5.870	34.535	27.201	1.565
750	5.523	34.529	27.240	1.612
800	5.031	34.531	27.300	1.656
900	4.575	34.543	27.361	1.740
1000	4.290	34.549	27.397	1.819
1004	4.284	34.549	27.398	1.822



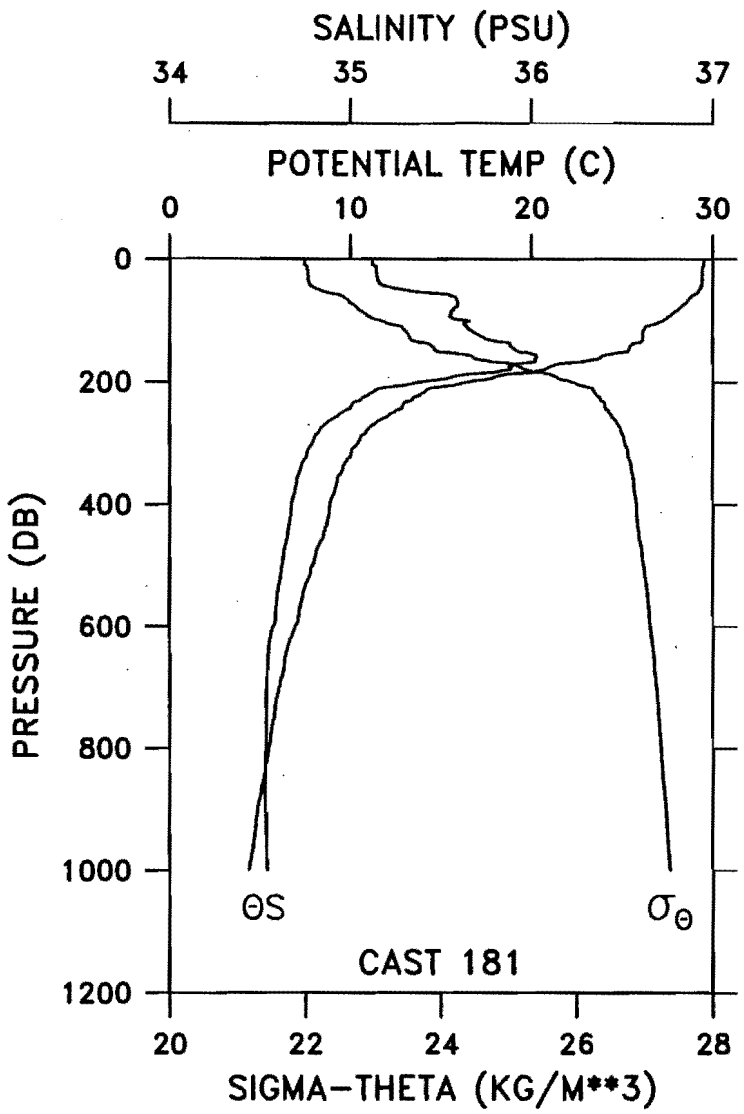
CAST GP4-97-KA-0161 DATE 16 JUN 97 TIME 0230 GMT
LAT 04 58.5S LONG 165 12.0E WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 165 T SPD 08 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 28.1 WET 23.9 DEPTH 2539 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.245	34.639	21.713	0.000
10	29.222	34.635	21.718	0.061
20	29.178	34.633	21.731	0.122
30	29.173	34.635	21.735	0.182
40	29.174	34.641	21.739	0.243
50	29.306	34.864	21.862	0.304
60	29.032	35.456	22.398	0.361
70	28.366	35.529	22.674	0.414
80	27.836	35.592	22.896	0.465
90	27.452	35.678	23.085	0.514
100	27.141	35.737	23.230	0.562
110	26.484	35.904	23.565	0.607
120	26.241	35.971	23.693	0.649
130	25.653	36.069	23.950	0.691
140	24.849	36.018	24.158	0.730
150	24.184	36.020	24.361	0.767
160	22.458	35.955	24.815	0.801
170	20.453	35.825	25.271	0.831
180	19.764	35.747	25.395	0.858
190	18.472	35.611	25.623	0.883
200	17.546	35.497	25.765	0.907
250	11.688	34.909	26.578	1.000
300	10.365	34.787	26.723	1.071
350	9.701	34.731	26.793	1.139
400	9.177	34.692	26.849	1.204
450	8.630	34.653	26.905	1.266
500	8.145	34.625	26.958	1.327
550	7.545	34.589	27.018	1.385
600	6.993	34.561	27.074	1.440
650	6.397	34.540	27.138	1.492
700	5.929	34.530	27.190	1.542
750	5.530	34.520	27.232	1.589
800	5.312	34.518	27.257	1.635
900	4.836	34.523	27.316	1.722
1000	4.223	34.538	27.396	1.804
1004	4.208	34.538	27.397	1.807



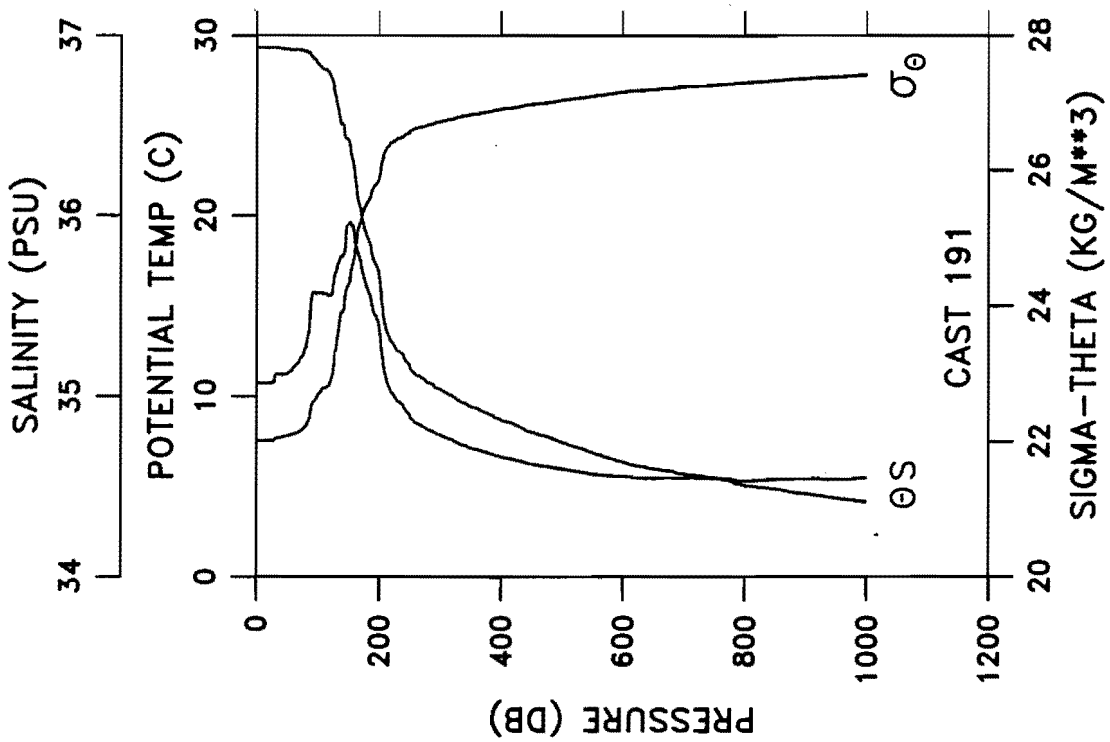
CAST GP4-97-KA-0171 DATE 17 JUN 97 TIME 0348 GMT
LAT 08 01.3S LONG 164 50.2E WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 114 T SPD 04 KT VISIBILITY 7
CLOUD 1 AMOUNT 8 DRY 28.3 WET 23.3 DEPTH 3899 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.130	34.734	21.823	0.000
10	28.961	34.729	21.876	0.060
20	28.912	34.728	21.892	0.119
30	28.902	34.729	21.895	0.178
40	28.898	34.731	21.898	0.238
50	28.917	34.996	22.091	0.297
60	28.218	35.068	22.377	0.352
70	27.896	35.106	22.510	0.407
80	27.769	35.193	22.618	0.460
90	27.623	35.264	22.718	0.512
100	27.398	35.297	22.816	0.563
110	26.999	35.397	23.019	0.613
120	26.529	35.499	23.245	0.661
130	26.194	35.579	23.412	0.707
140	25.660	35.671	23.648	0.751
150	24.961	35.939	24.065	0.793
160	24.502	35.975	24.232	0.831
170	23.026	35.957	24.654	0.866
180	22.819	35.942	24.702	0.900
190	21.687	35.890	24.984	0.931
200	21.349	35.867	25.060	0.961
250	16.688	35.407	25.901	1.091
300	12.492	34.972	26.473	1.184
350	10.064	34.770	26.762	1.258
400	8.822	34.668	26.887	1.322
450	8.255	34.626	26.942	1.383
500	7.701	34.594	26.999	1.441
550	7.364	34.575	27.033	1.497
600	7.019	34.559	27.069	1.553
650	6.485	34.535	27.125	1.606
700	6.057	34.519	27.165	1.656
750	5.632	34.518	27.218	1.705
800	5.214	34.511	27.263	1.751
900	4.685	34.522	27.332	1.837
1000	4.363	34.530	27.374	1.919
1004	4.330	34.530	27.377	1.923



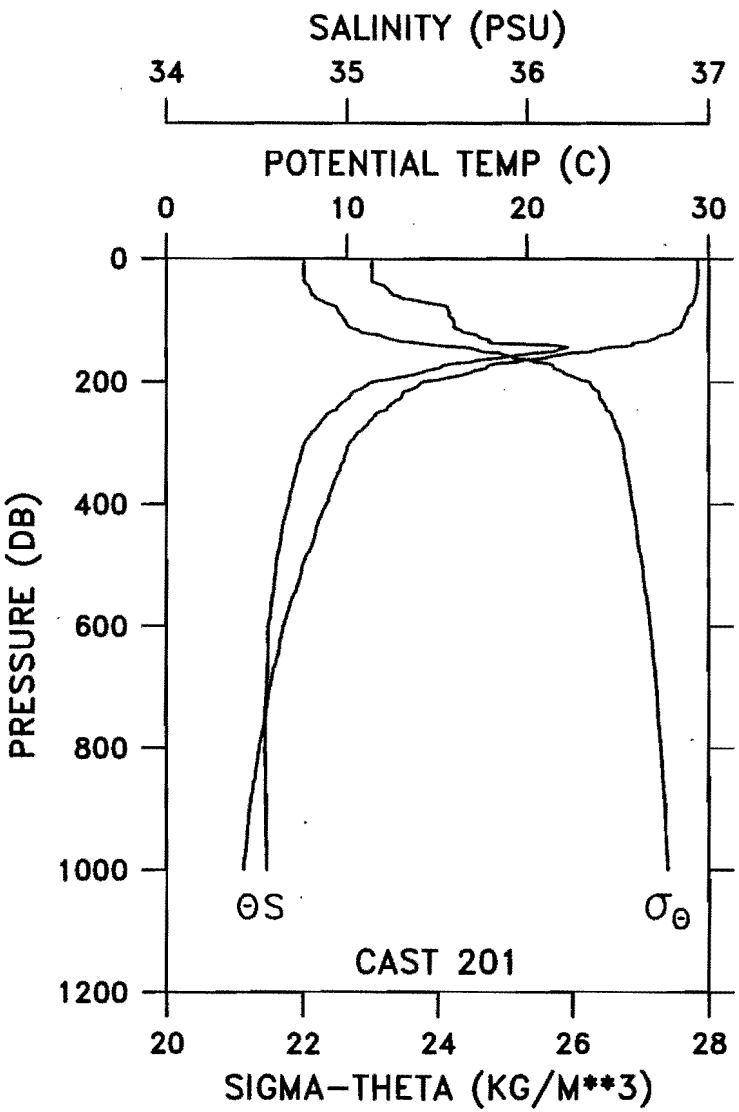
CAST GP4-97-KA-0181 DATE 22 JUN 97 TIME 0506 GMT
LAT 05 01.9S LONG 179 59.0W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 263 T SPD 03 KT VISIBILITY 7
CLOUD 4 AMOUNT 9 DRY 27.6 WET 25.7 DEPTH 5973 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.510	35.126	21.990	0.000
10	29.497	35.127	21.995	0.058
20	29.415	35.145	22.036	0.116
30	29.412	35.150	22.041	0.174
40	29.399	35.168	22.059	0.232
50	29.241	35.298	22.210	0.289
60	28.817	35.553	22.543	0.344
70	28.583	35.592	22.650	0.397
80	28.147	35.569	22.777	0.448
90	27.731	35.557	22.904	0.499
100	27.277	35.644	23.116	0.548
110	26.295	35.646	23.430	0.595
120	26.146	35.688	23.509	0.639
130	26.153	35.751	23.554	0.683
140	25.525	35.883	23.849	0.726
150	25.351	35.925	23.935	0.767
160	23.820	36.027	24.475	0.804
170	21.638	35.931	25.028	0.837
180	20.687	35.878	25.249	0.866
190	18.205	35.587	25.672	0.891
200	16.551	35.392	25.922	0.914
250	12.363	34.954	26.484	1.003
300	10.434	34.789	26.712	1.077
350	9.456	34.713	26.820	1.144
400	8.867	34.672	26.883	1.207
450	8.516	34.650	26.921	1.268
500	7.905	34.619	26.989	1.327
550	7.338	34.590	27.049	1.383
600	6.926	34.568	27.089	1.438
650	6.357	34.541	27.144	1.489
700	6.020	34.534	27.182	1.539
750	5.757	34.532	27.214	1.587
800	5.442	34.528	27.249	1.634
900	4.830	34.528	27.321	1.722
1000	4.347	34.538	27.382	1.805
1005	4.321	34.538	27.385	1.809



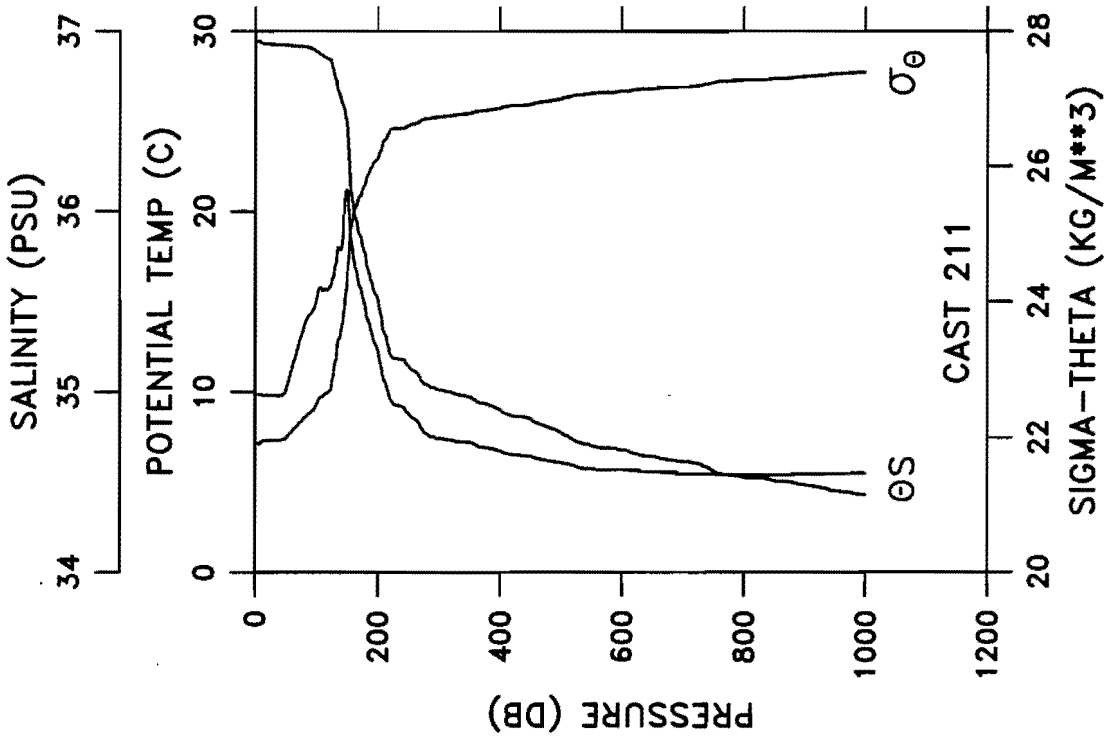
CAST GP4-97-KA-0191 DATE 22 JUN 97 TIME 1242 GMT
LAT 04 00.1S LONG 179 54.9W WEATHER 1 SEA STATE 4
BAROMETER 08 WIND DIR 255 T SPD 13 KT VISIBILITY 7
CLOUD AMOUNT DRY 28.2 WET 25.1 DEPTH 5744 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.325	35.077	22.015	0.000
10	29.323	35.075	22.014	0.058
20	29.320	35.077	22.017	0.116
30	29.327	35.104	22.035	0.174
40	29.273	35.121	22.066	0.232
50	29.220	35.126	22.087	0.289
60	29.206	35.157	22.115	0.347
70	29.203	35.200	22.149	0.404
80	29.131	35.266	22.222	0.461
90	28.856	35.549	22.527	0.516
100	28.442	35.576	22.685	0.569
110	28.100	35.571	22.793	0.620
120	27.800	35.559	22.882	0.671
130	26.426	35.693	23.424	0.719
140	25.052	35.775	23.913	0.762
150	24.185	35.953	24.309	0.800
160	22.432	35.868	24.757	0.834
170	20.302	35.743	25.249	0.864
180	18.854	35.601	25.520	0.890
190	17.626	35.479	25.732	0.915
200	16.665	35.381	25.887	0.937
250	11.663	34.892	26.570	1.022
300	10.419	34.788	26.714	1.094
350	9.444	34.714	26.822	1.161
400	8.697	34.665	26.904	1.224
450	8.020	34.625	26.976	1.284
500	7.451	34.598	27.039	1.340
550	6.897	34.569	27.094	1.394
600	6.351	34.559	27.159	1.445
650	5.987	34.547	27.197	1.493
700	5.708	34.547	27.231	1.540
750	5.486	34.547	27.258	1.586
800	5.061	34.532	27.297	1.630
900	4.622	34.544	27.357	1.714
1000	4.184	34.549	27.408	1.793
1001	4.184	34.549	27.408	1.793



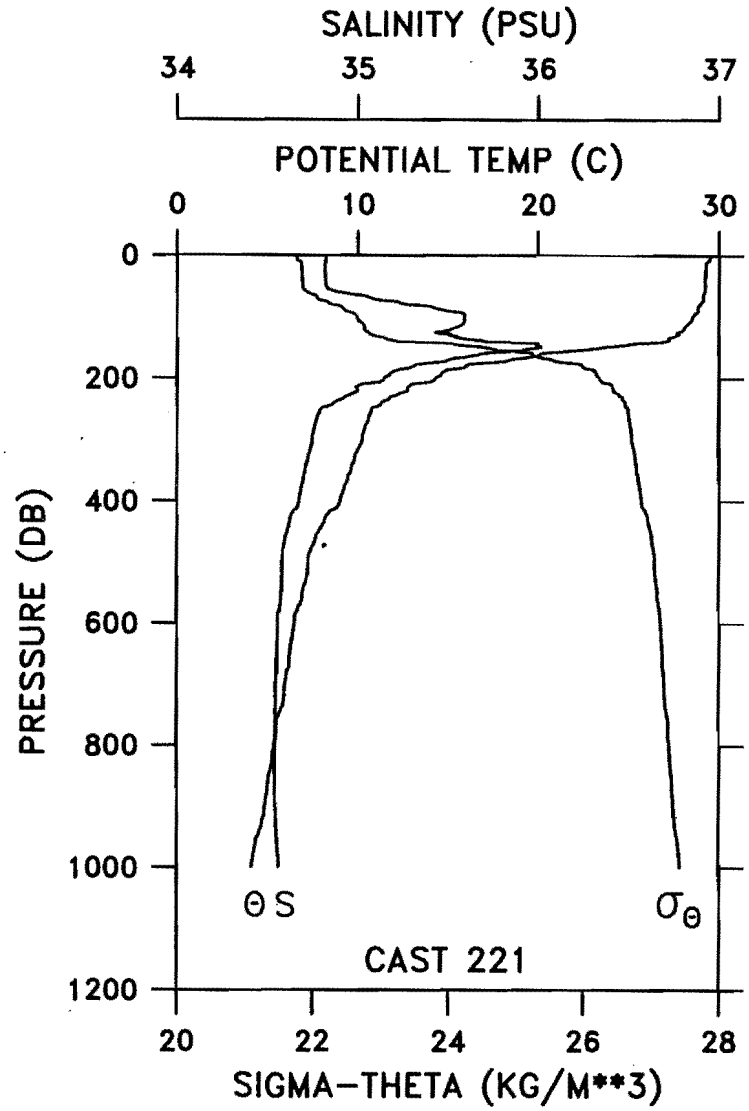
CAST GP4-97-KA-0201 DATE 22 JUN 97 TIME 1943 GMT
LAT 02 59.6S LONG 179 55.6W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 258 T SPD 12 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 28.5 WET 25.4 DEPTH 5063 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.427	35.139	22.028	0.000
10	29.429	35.139	22.026	0.058
20	29.431	35.139	22.026	0.116
30	29.433	35.140	22.026	0.174
40	29.407	35.167	22.055	0.232
50	29.346	35.231	22.124	0.289
60	29.286	35.269	22.173	0.346
70	29.178	35.415	22.318	0.402
80	28.894	35.556	22.519	0.457
90	28.763	35.565	22.570	0.510
100	28.643	35.586	22.626	0.563
110	28.460	35.591	22.690	0.615
120	27.987	35.654	22.893	0.666
130	26.981	35.767	23.304	0.714
140	25.867	36.122	23.924	0.758
150	23.616	36.159	24.635	0.794
160	21.145	35.870	25.118	0.825
170	18.489	35.608	25.617	0.852
180	17.421	35.474	25.778	0.875
190	16.189	35.343	25.969	0.897
200	14.221	35.148	26.256	0.917
250	11.739	34.904	26.565	1.000
300	10.130	34.763	26.745	1.073
350	9.479	34.716	26.818	1.139
400	8.845	34.673	26.887	1.203
450	8.220	34.633	26.953	1.263
500	7.511	34.603	27.034	1.320
550	6.992	34.585	27.093	1.374
600	6.407	34.558	27.151	1.426
650	6.107	34.559	27.191	1.475
700	5.692	34.551	27.237	1.522
750	5.432	34.540	27.260	1.567
800	5.100	34.541	27.300	1.611
900	4.565	34.546	27.364	1.694
1000	4.251	34.552	27.403	1.773
1003	4.250	34.552	27.403	1.776



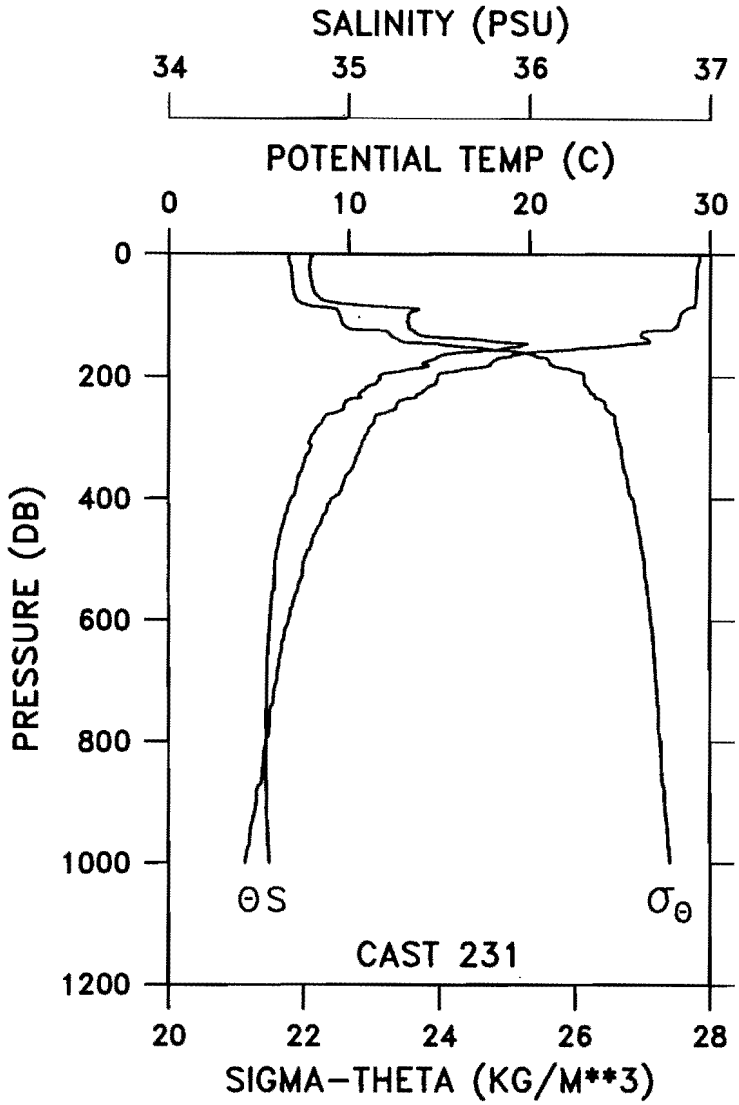
CAST GP4-97-KA-0211 DATE 23 JUN 97 TIME 0225 GMT
LAT 02 01.3S LONG 179 57.3W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 189 T SPD 04 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 29.5 WET 26.2 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.432	34.989	21.913	0.000
10	29.348	34.984	21.938	0.059
20	29.291	34.984	21.957	0.118
30	29.273	34.982	21.962	0.176
40	29.260	34.980	21.965	0.235
50	29.248	35.011	21.992	0.293
60	29.201	35.130	22.097	0.351
70	29.174	35.256	22.200	0.408
80	29.145	35.370	22.296	0.465
90	29.070	35.431	22.367	0.520
100	28.878	35.515	22.494	0.574
110	28.628	35.559	22.610	0.628
120	28.465	35.577	22.678	0.680
130	27.394	35.698	23.119	0.731
140	26.121	35.795	23.597	0.776
150	24.472	36.120	24.350	0.817
160	20.055	35.734	25.308	0.847
170	18.677	35.584	25.551	0.873
180	17.337	35.446	25.777	0.897
190	16.017	35.322	25.993	0.919
200	15.068	35.224	26.131	0.939
250	11.456	34.882	26.600	1.018
300	10.138	34.746	26.730	1.089
350	9.726	34.724	26.783	1.157
400	9.039	34.676	26.858	1.222
450	8.535	34.645	26.914	1.284
500	7.792	34.610	26.998	1.343
550	7.035	34.577	27.081	1.398
600	6.806	34.572	27.108	1.450
650	6.445	34.560	27.148	1.502
700	6.161	34.550	27.176	1.551
750	5.660	34.547	27.238	1.600
800	5.274	34.542	27.280	1.645
900	4.880	34.545	27.329	1.732
1000	4.323	34.552	27.395	1.812
1004	4.318	34.552	27.397	1.815



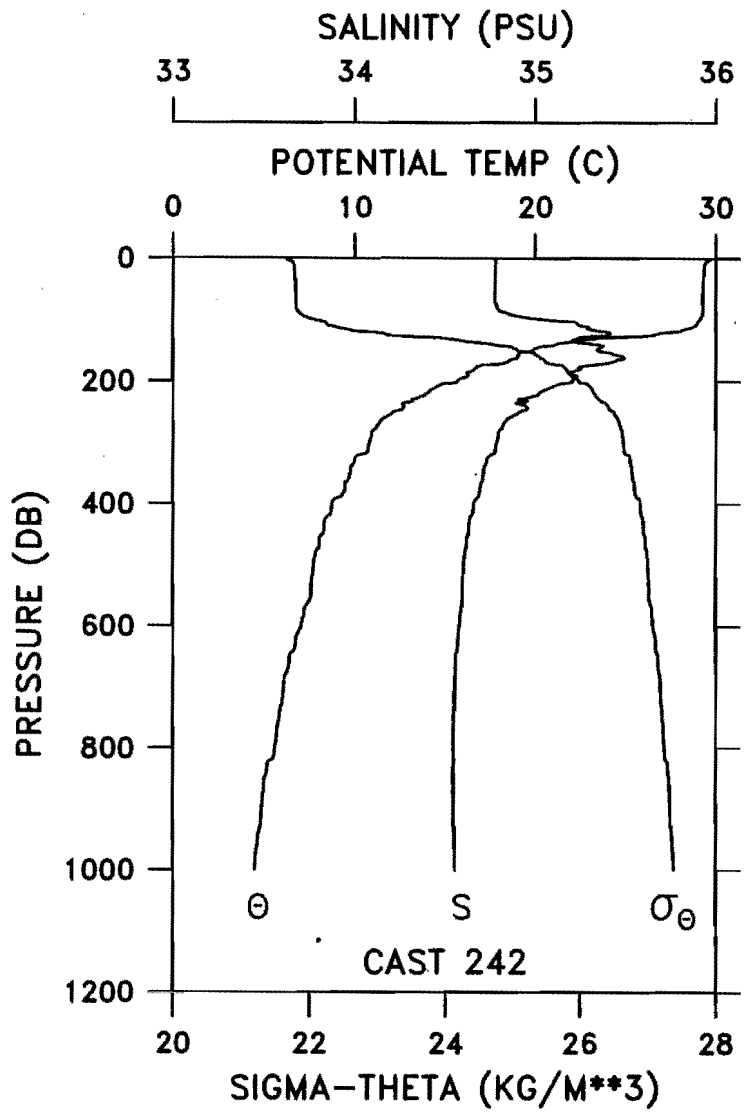
CAST GP4-97-KA-0221 DATE 23 JUN 97 TIME 0651 GMT
LAT 01 30.0S LONG 179 57.3W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 242 T SPD 07 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 27.8 WET 25.2 DEPTH 5238 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.504	34.825	21.766	0.000
10	29.361	34.821	21.811	0.060
20	29.272	34.819	21.839	0.120
30	29.259	34.819	21.844	0.180
40	29.250	34.821	21.848	0.240
50	29.244	34.826	21.854	0.299
60	29.195	34.905	21.929	0.359
70	29.154	35.083	22.077	0.417
80	28.943	35.281	22.296	0.474
90	28.852	35.494	22.486	0.528
100	28.549	35.587	22.658	0.581
110	28.314	35.581	22.730	0.633
120	28.043	35.514	22.769	0.685
130	27.608	35.519	22.915	0.735
140	26.933	35.706	23.273	0.784
150	23.435	35.993	24.562	0.823
160	20.108	35.676	25.250	0.854
170	18.383	35.498	25.559	0.880
180	15.994	35.310	25.988	0.903
190	14.690	35.189	26.186	0.922
200	14.290	35.146	26.240	0.941
250	10.762	34.795	26.659	1.021
300	10.239	34.748	26.715	1.091
350	9.625	34.708	26.788	1.159
400	9.023	34.674	26.859	1.223
450	7.827	34.610	26.993	1.283
500	7.261	34.581	27.053	1.339
550	6.942	34.576	27.093	1.392
600	6.503	34.562	27.141	1.444
650	6.242	34.554	27.169	1.493
700	5.981	34.547	27.197	1.542
750	5.643	34.544	27.237	1.590
800	5.370	34.543	27.270	1.635
900	4.877	34.545	27.329	1.722
1000	4.130	34.563	27.425	1.802
1006	4.127	34.563	27.425	1.806



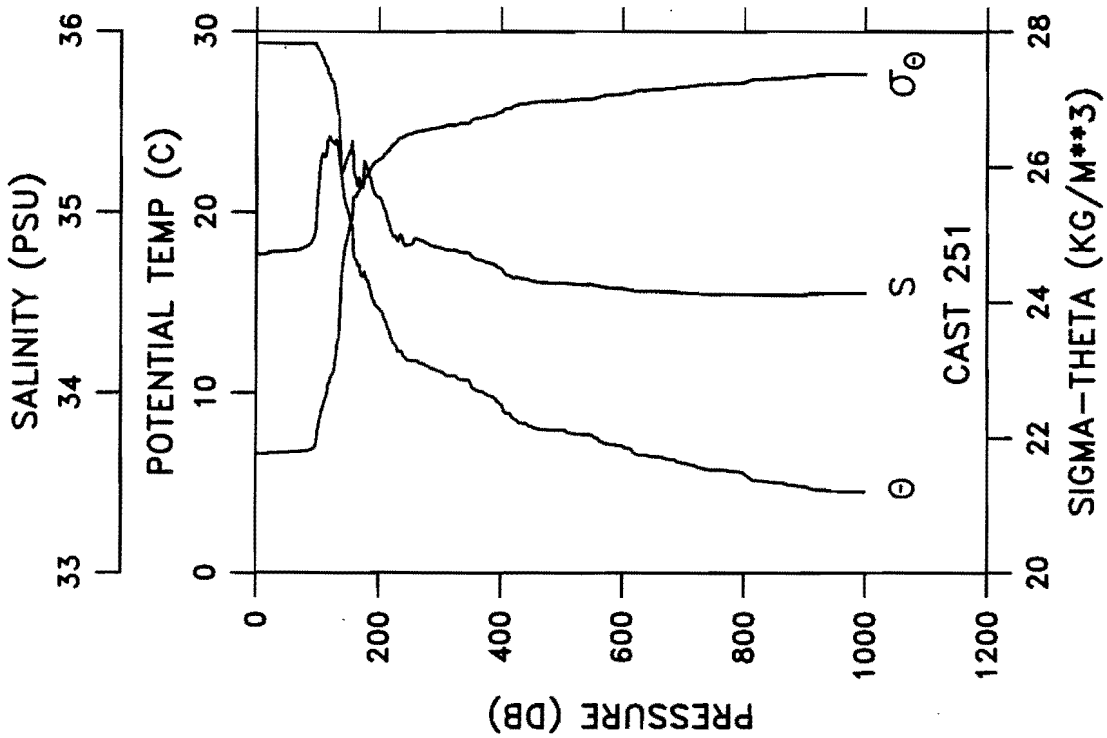
CAST GP4-97-KA-0231 DATE 23 JUN 97 TIME 1045 GMT
LAT 01 00.3S LONG 179 56.2W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 226 T SPD 05 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 28.2 WET 25.5 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.395	34.787	21.774	0.000
10	29.384	34.789	21.779	0.060
20	29.270	34.784	21.814	0.120
30	29.254	34.787	21.822	0.180
40	29.244	34.792	21.828	0.240
50	29.237	34.797	21.835	0.300
60	29.221	34.809	21.849	0.360
70	29.199	34.833	21.874	0.420
80	29.159	34.945	21.972	0.479
90	28.632	35.388	22.480	0.536
100	28.332	35.331	22.537	0.590
110	28.221	35.324	22.568	0.643
120	28.023	35.334	22.640	0.696
130	26.162	35.381	23.272	0.745
140	26.590	35.739	23.408	0.791
150	24.433	35.953	24.236	0.833
160	20.137	35.630	25.207	0.866
170	18.263	35.483	25.578	0.892
180	17.807	35.418	25.641	0.916
190	16.114	35.308	25.959	0.939
200	14.893	35.168	26.126	0.959
250	12.629	34.974	26.447	1.050
300	10.883	34.792	26.635	1.125
350	10.196	34.743	26.718	1.197
400	9.060	34.680	26.858	1.264
450	8.273	34.628	26.941	1.326
500	7.550	34.593	27.021	1.383
550	7.165	34.582	27.067	1.439
600	6.670	34.563	27.120	1.491
650	6.271	34.553	27.164	1.541
700	5.990	34.547	27.196	1.590
750	5.633	34.543	27.238	1.637
800	5.403	34.543	27.266	1.683
900	4.875	34.544	27.328	1.771
1000	4.250	34.560	27.410	1.851
1003	4.236	34.559	27.411	1.853



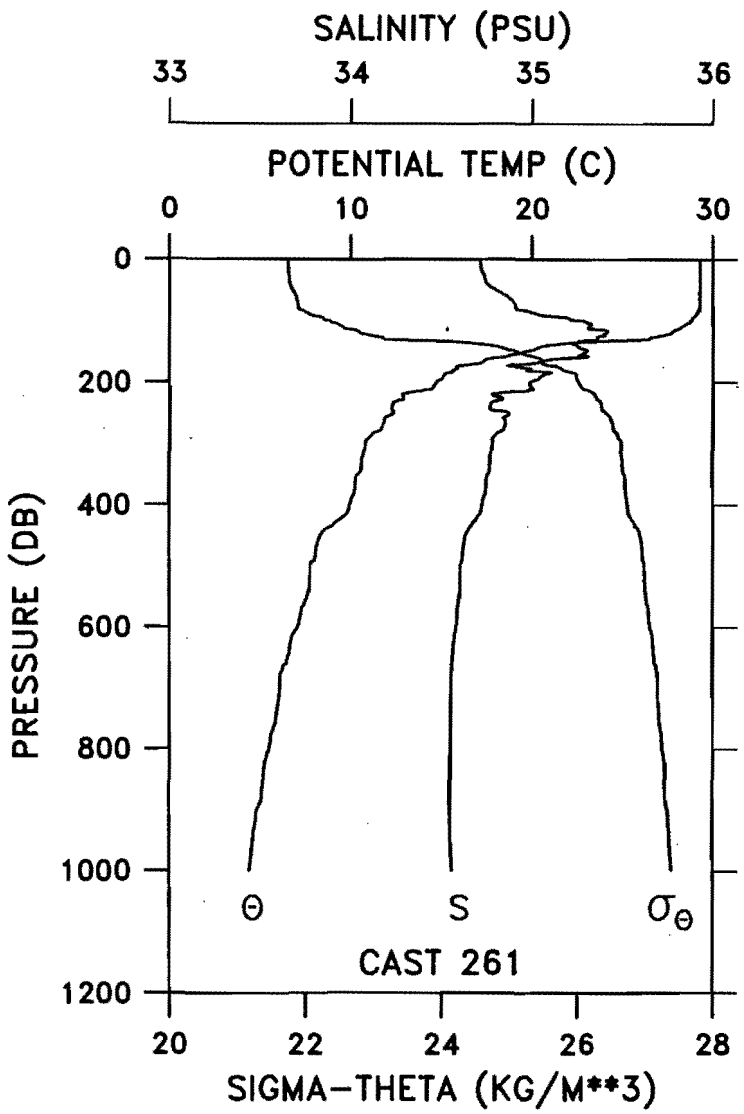
CAST GP4-97-KA-0242 DATE 23 JUN 97 TIME 2347 GMT
LAT 00 00.9N LONG 179 50.8W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 196 T SPD 04 KT VISIBILITY 7
CLOUD 2 AMOUNT 9 DRY 29.0 WET 27.4 DEPTH 5403 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.652	34.776	21.679	0.000
10	29.384	34.779	21.771	0.061
20	29.351	34.777	21.782	0.121
30	29.332	34.777	21.788	0.181
40	29.308	34.776	21.795	0.242
50	29.291	34.774	21.799	0.302
60	29.278	34.774	21.804	0.362
70	29.277	34.776	21.806	0.423
80	29.275	34.784	21.813	0.483
90	29.255	34.845	21.865	0.543
100	29.098	35.053	22.073	0.602
110	28.842	35.256	22.311	0.659
120	27.264	35.402	22.938	0.712
130	23.477	35.240	23.979	0.758
140	21.156	35.329	24.703	0.795
150	19.843	35.347	25.069	0.825
160	19.019	35.489	25.391	0.852
170	18.326	35.412	25.508	0.878
180	16.626	35.252	25.797	0.902
190	16.257	35.225	25.862	0.924
200	15.666	35.207	25.984	0.945
250	12.127	34.913	26.498	1.036
300	10.817	34.784	26.641	1.111
350	9.759	34.712	26.768	1.181
400	8.743	34.657	26.890	1.246
450	8.250	34.626	26.943	1.307
500	7.744	34.602	27.000	1.365
550	7.601	34.597	27.016	1.422
600	7.071	34.578	27.077	1.476
650	6.414	34.557	27.149	1.529
700	6.102	34.552	27.186	1.578
750	5.854	34.547	27.213	1.626
800	5.604	34.544	27.242	1.673
900	4.878	34.544	27.328	1.761
1000	4.491	34.553	27.378	1.843
1005	4.470	34.553	27.381	1.847



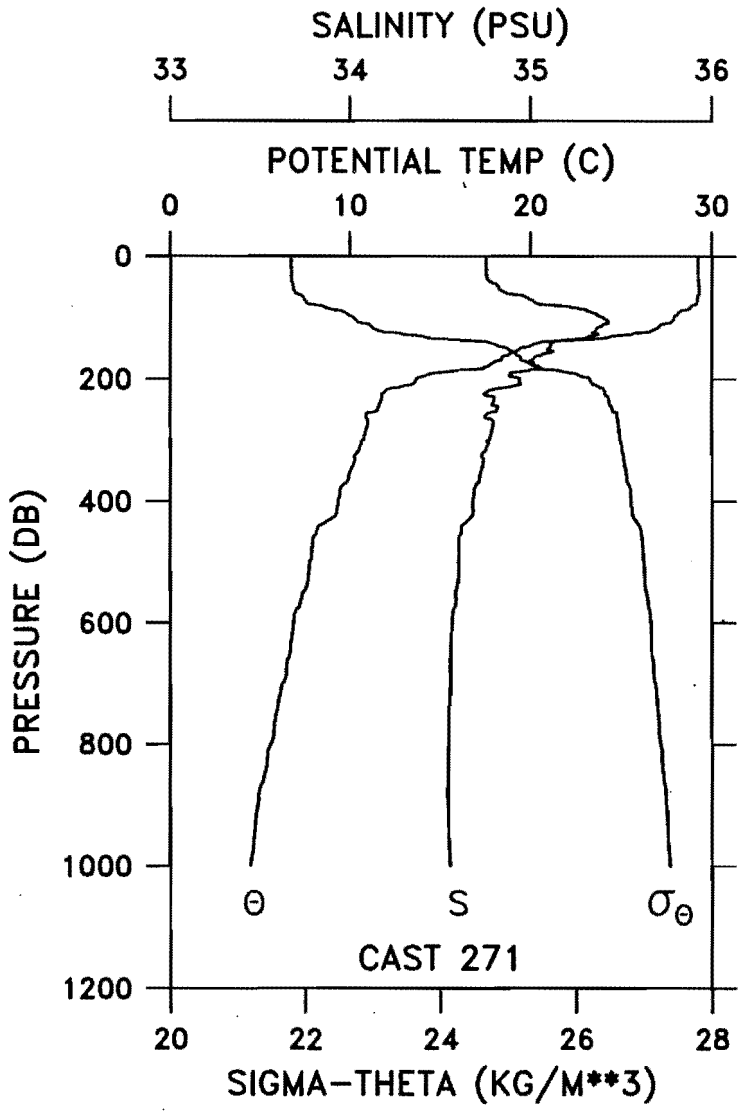
CAST GP4-97-KA-0251 DATE 24 JUN 97 TIME 0350 GMT
LAT 00 29.7N LONG 179 52.2W WEATHER 6 SEA STATE 3
BAROMETER 06 WIND DIR 253 T SPD 17 KT VISIBILITY 3
CLOUD 8 AMOUNT 7 DRY 25.5 WET 24.5 DEPTH 5682 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.363	34.770	21.772	0.000
10	29.362	34.767	21.770	0.060
20	29.355	34.774	21.778	0.121
30	29.347	34.781	21.786	0.181
40	29.339	34.781	21.788	0.241
50	29.329	34.785	21.794	0.302
60	29.325	34.789	21.799	0.362
70	29.324	34.793	21.802	0.422
80	29.328	34.808	21.812	0.483
90	29.325	34.832	21.832	0.543
100	29.045	35.088	22.117	0.602
110	28.396	35.309	22.499	0.658
120	27.567	35.418	22.852	0.710
130	26.338	35.401	23.232	0.759
140	21.600	35.219	24.497	0.801
150	19.976	35.313	25.008	0.833
160	17.478	35.210	25.561	0.861
170	16.499	35.137	25.738	0.885
180	16.292	35.248	25.872	0.908
190	15.155	35.125	26.035	0.929
200	14.679	35.081	26.106	0.949
250	11.805	34.818	26.486	1.036
300	11.191	34.803	26.588	1.114
350	10.548	34.766	26.675	1.188
400	9.389	34.690	26.812	1.256
450	8.162	34.623	26.954	1.317
500	7.942	34.609	26.976	1.376
550	7.676	34.602	27.009	1.433
600	7.077	34.581	27.078	1.488
650	6.472	34.563	27.146	1.539
700	6.118	34.555	27.186	1.589
750	5.719	34.545	27.229	1.637
800	5.539	34.549	27.254	1.683
900	4.799	34.546	27.339	1.769
1000	4.507	34.553	27.377	1.850
1003	4.503	34.553	27.377	1.852



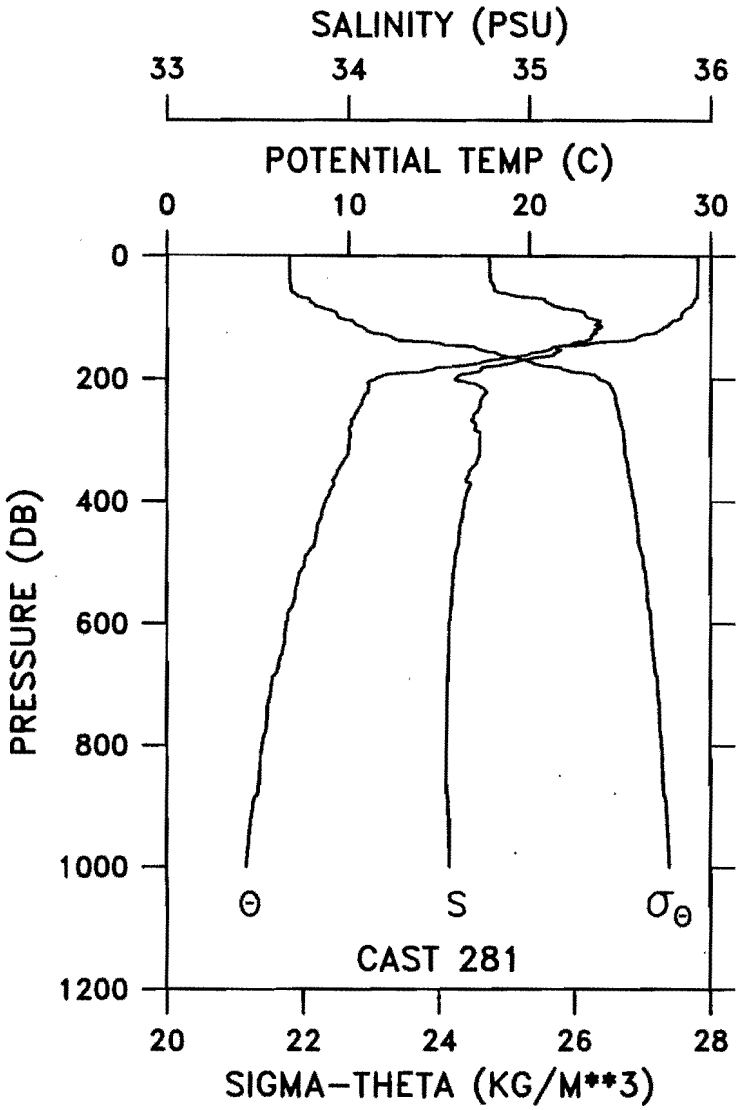
CAST GP4-97-KA-0261 DATE 24 JUN 97 TIME 0752 GMT
LAT 00 59.8N LONG 179 50.4W WEATHER 9 SEA STATE 3
BAROMETER 09 WIND DIR 253 T SPD 17 KT VISIBILITY 3
CLOUD 8 AMOUNT DRY 24.9 WET 24.0 DEPTH 5734 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.316	34.714	21.746	0.000
10	29.315	34.716	21.747	0.061
20	29.321	34.726	21.753	0.121
30	29.325	34.739	21.762	0.182
40	29.327	34.754	21.772	0.242
50	29.312	34.802	21.813	0.303
60	29.290	34.863	21.867	0.362
70	29.308	34.899	21.888	0.422
80	29.294	34.910	21.901	0.482
90	29.074	35.039	22.071	0.540
100	28.777	35.290	22.358	0.597
110	28.248	35.313	22.551	0.651
120	27.723	35.413	22.798	0.703
130	26.369	35.361	23.192	0.752
140	20.764	35.253	24.752	0.790
150	19.521	35.303	25.119	0.821
160	18.000	35.198	25.425	0.848
170	16.954	34.964	25.498	0.874
180	15.656	34.967	25.801	0.897
190	15.107	35.051	25.988	0.918
200	14.720	34.987	26.024	0.939
250	12.367	34.871	26.419	1.030
300	10.776	34.779	26.644	1.108
350	10.397	34.758	26.695	1.180
400	9.931	34.724	26.748	1.250
450	8.343	34.632	26.933	1.315
500	7.790	34.607	26.997	1.374
550	7.602	34.598	27.017	1.431
600	7.086	34.581	27.077	1.486
650	6.502	34.560	27.140	1.538
700	6.089	34.554	27.189	1.587
750	5.872	34.551	27.214	1.635
800	5.479	34.548	27.260	1.681
900	4.833	34.548	27.336	1.769
1000	4.379	34.558	27.394	1.850
1004	4.345	34.557	27.398	1.853



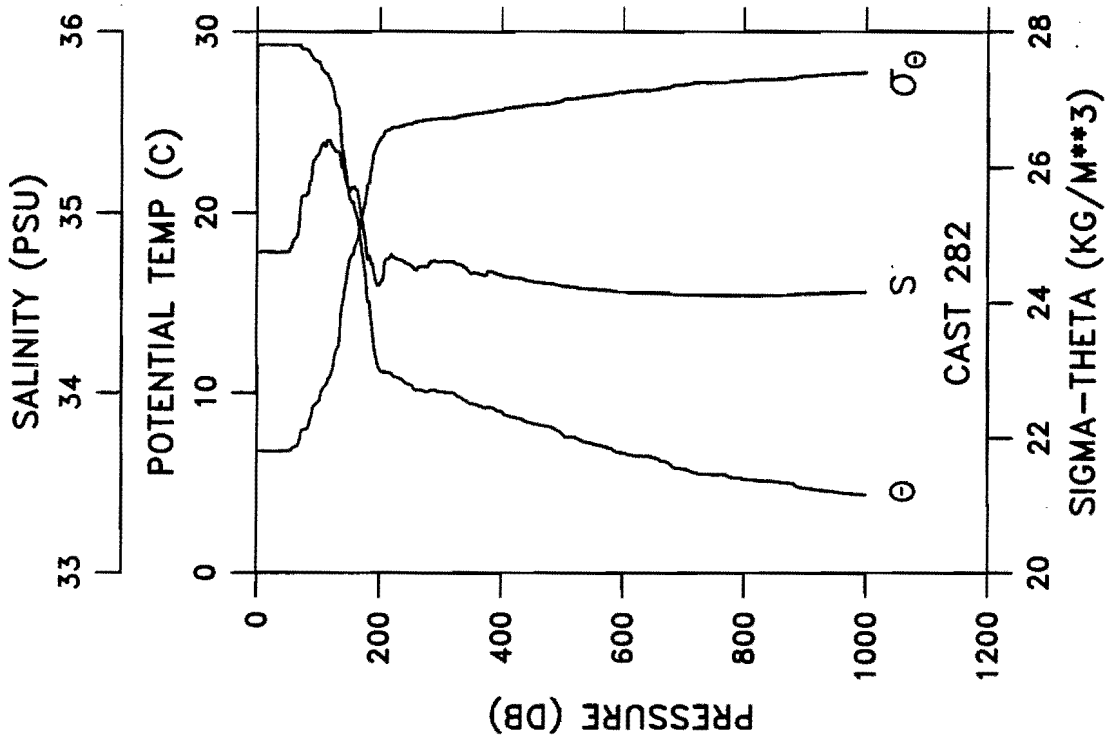
CAST GP4-97-KA-0271 DATE 24 JUN 97 TIME 1150 GMT
LAT 01 29.5N LONG 179 48.5W WEATHER 5 SEA STATE 3
BAROMETER 08 WIND DIR 130 T SPD 02 KT VISIBILITY 7
CLOUD AMOUNT DRY 26.0 WET 24.9 DEPTH 5558 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.264	34.757	21.796	0.000
10	29.259	34.754	21.795	0.060
20	29.268	34.758	21.795	0.120
30	29.269	34.758	21.795	0.180
40	29.281	34.773	21.802	0.241
50	29.322	34.824	21.827	0.301
60	29.321	34.870	21.862	0.361
70	29.214	34.998	21.993	0.420
80	28.895	35.160	22.222	0.478
90	28.231	35.327	22.567	0.533
100	27.913	35.402	22.728	0.585
110	27.257	35.405	22.943	0.636
120	26.725	35.359	23.078	0.685
130	24.442	35.322	23.755	0.731
140	20.500	35.117	24.720	0.769
150	19.385	35.096	24.997	0.800
160	18.791	35.062	25.123	0.830
170	18.190	34.994	25.221	0.858
180	17.518	35.053	25.431	0.885
190	14.698	34.884	25.949	0.909
200	13.662	34.939	26.211	0.929
250	11.535	34.814	26.533	1.012
300	10.708	34.763	26.644	1.087
350	10.034	34.726	26.733	1.157
400	9.340	34.681	26.813	1.225
450	8.129	34.617	26.954	1.288
500	7.730	34.602	27.002	1.346
550	7.388	34.585	27.038	1.402
600	6.849	34.566	27.098	1.456
650	6.656	34.560	27.119	1.508
700	6.233	34.559	27.174	1.559
750	5.872	34.551	27.214	1.608
800	5.564	34.549	27.251	1.655
900	4.866	34.546	27.331	1.742
1000	4.439	34.556	27.386	1.824
1002	4.433	34.556	27.387	1.826



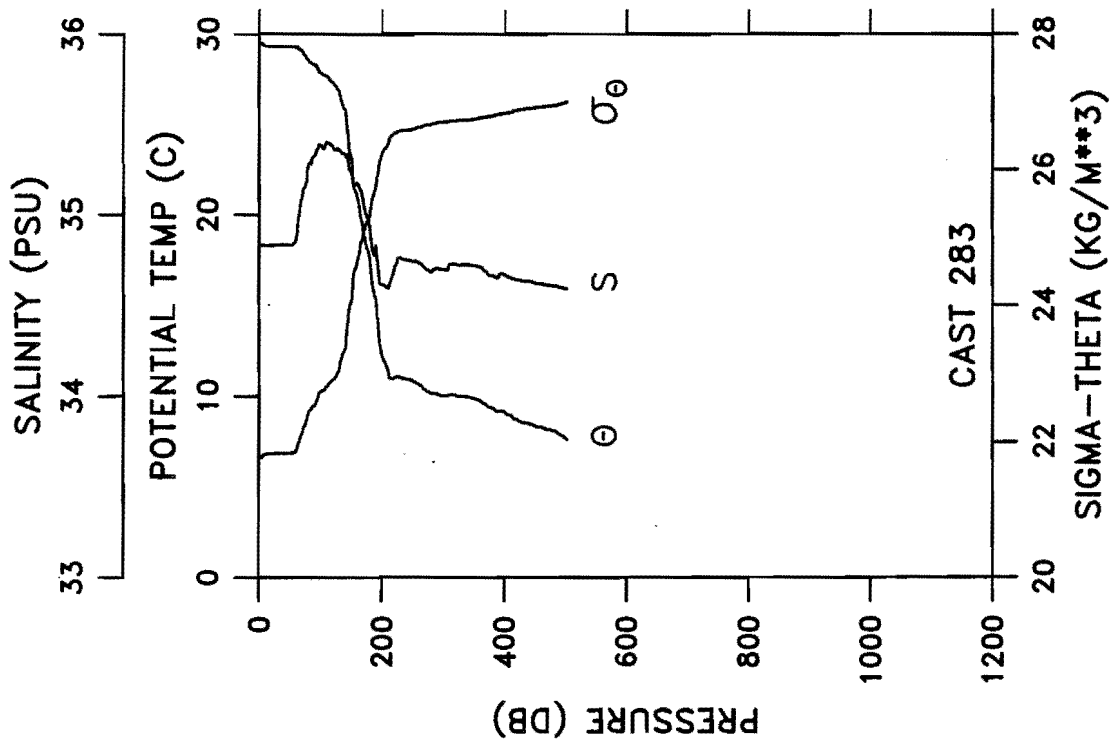
CAST GP4-97-KA-0281 DATE 24 JUN 97 TIME 1622 GMT
LAT 02 01.2N LONG 179 47.6W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 200 T SPD 06 KT VISIBILITY 7
CLOUD AMOUNT DRY 30.5 WET 27.2 DEPTH 5484 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.308	34.777	21.796	0.000
10	29.307	34.780	21.799	0.060
20	29.306	34.780	21.799	0.120
30	29.310	34.783	21.799	0.180
40	29.312	34.784	21.799	0.241
50	29.304	34.804	21.817	0.301
60	29.280	34.840	21.852	0.361
70	29.100	35.084	22.096	0.420
80	28.968	35.128	22.173	0.477
90	28.475	35.285	22.455	0.533
100	28.367	35.320	22.517	0.587
110	27.740	35.372	22.761	0.639
120	27.215	35.359	22.921	0.689
130	26.103	35.340	23.259	0.738
140	23.864	35.263	23.883	0.783
150	21.210	35.148	24.550	0.821
160	19.960	35.139	24.880	0.854
170	17.808	34.954	25.285	0.883
180	15.681	34.777	25.649	0.909
190	13.074	34.686	26.135	0.931
200	11.516	34.592	26.364	0.948
250	10.508	34.716	26.643	1.024
300	10.037	34.724	26.731	1.094
350	9.376	34.668	26.797	1.162
400	8.741	34.643	26.880	1.226
450	8.241	34.613	26.934	1.287
500	7.582	34.588	27.012	1.345
550	7.063	34.572	27.073	1.400
600	6.547	34.557	27.131	1.452
650	6.343	34.554	27.156	1.503
700	5.747	34.546	27.226	1.551
750	5.519	34.543	27.252	1.597
800	5.239	34.543	27.285	1.642
900	4.720	34.550	27.351	1.728
1000	4.354	34.559	27.398	1.807
1334	3.271	34.593	27.535	2.048



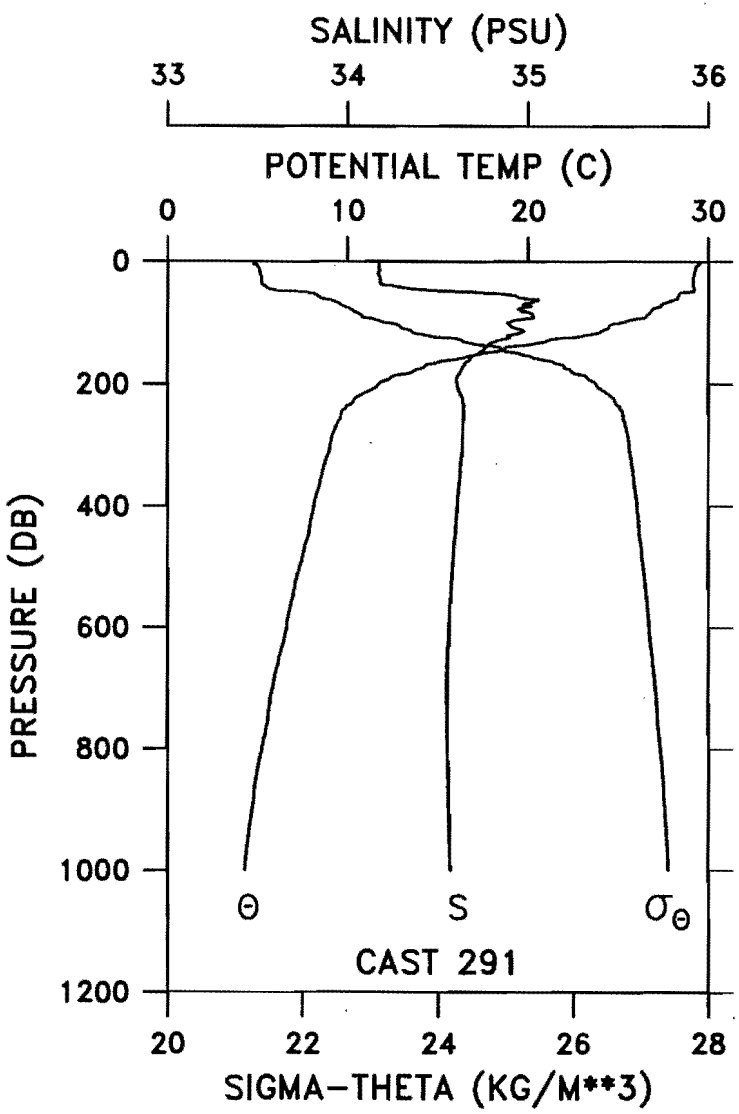
CAST GP4-97-KA-0282 DATE 24 JUN 97 TIME 1730 GMT
LAT 01 59.2N LONG 179 47.4W WEATHER 1 SEA STATE 2
BAROMETER 06 WIND DIR 206 T SPD 09 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 27.5 WET 25.5 DEPTH 5434 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.301	34.784	21.803	0.000
10	29.306	34.785	21.803	0.060
20	29.309	34.785	21.801	0.120
30	29.301	34.782	21.802	0.180
40	29.302	34.783	21.802	0.240
50	29.306	34.785	21.802	0.301
60	29.274	34.849	21.861	0.361
70	29.250	34.991	21.976	0.420
80	29.029	35.098	22.130	0.478
90	28.614	35.241	22.376	0.534
100	28.348	35.323	22.525	0.588
110	27.739	35.369	22.759	0.640
120	27.290	35.391	22.921	0.691
130	25.924	35.339	23.315	0.739
140	23.371	35.241	24.011	0.783
150	20.998	35.119	24.586	0.819
160	20.079	35.134	24.844	0.852
170	18.100	34.977	25.231	0.882
180	15.095	34.745	25.755	0.908
190	12.683	34.679	26.208	0.929
200	11.354	34.601	26.401	0.947
250	10.463	34.711	26.646	1.022
300	10.064	34.729	26.729	1.092
350	9.399	34.664	26.790	1.160
400	8.979	34.656	26.852	1.224
450	8.328	34.620	26.926	1.286
500	7.761	34.594	26.990	1.345
550	7.199	34.577	27.058	1.401
600	6.671	34.563	27.120	1.454
650	6.389	34.556	27.151	1.505
700	5.771	34.547	27.224	1.553
750	5.468	34.543	27.258	1.599
800	5.192	34.543	27.291	1.643
900	4.717	34.551	27.351	1.729
1000	4.335	34.559	27.400	1.809
1003	4.324	34.559	27.401	1.811



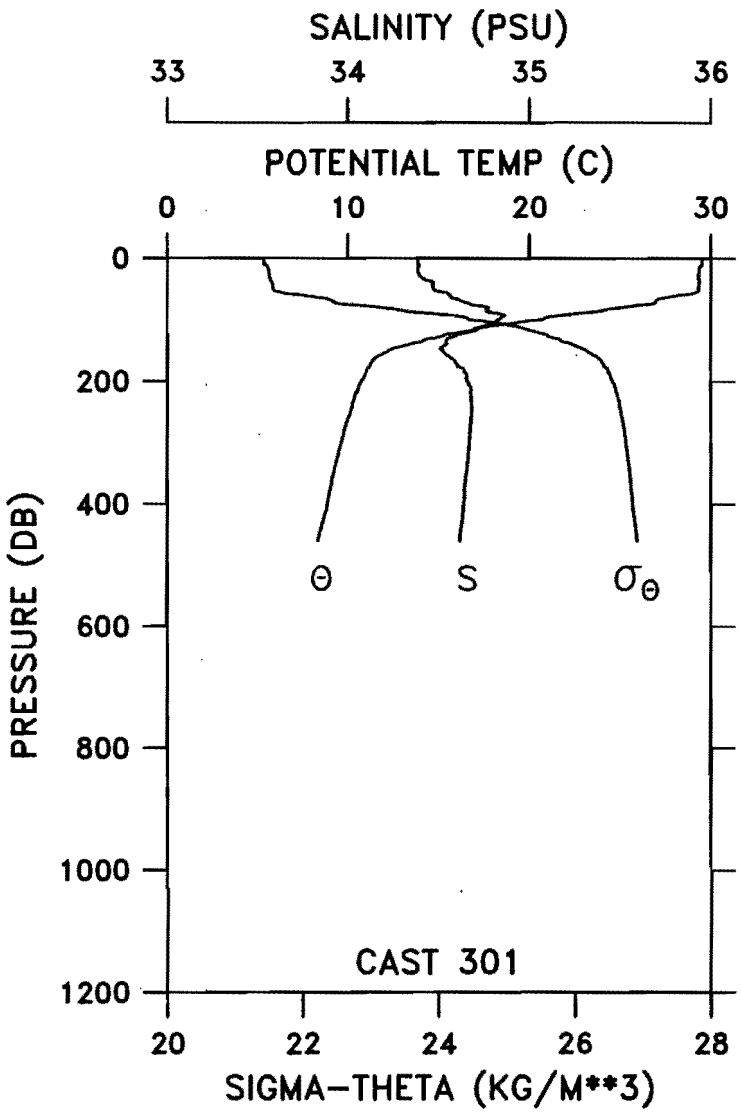
CAST GP4-97-KA-0283 DATE 25 JUN 97 TIME 0328 GMT
LAT 02 00.2N LONG 179 46.9W WEATHER 1 SEA STATE 2
BAROMETER 06 WIND DIR 143 T SPD 03 KT VISIBILITY 7
CLOUD 2 AMOUNT 2 DRY 30.5 WET 27.2 DEPTH 5486 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.500	34.833	21.773	0.000
10	29.360	34.829	21.818	0.060
20	29.337	34.833	21.828	0.120
30	29.328	34.833	21.831	0.180
40	29.322	34.834	21.834	0.240
50	29.319	34.834	21.835	0.300
60	29.284	34.856	21.863	0.360
70	29.050	35.099	22.124	0.418
80	28.543	35.269	22.420	0.474
90	28.339	35.327	22.531	0.528
100	27.856	35.386	22.734	0.580
110	27.666	35.404	22.810	0.632
120	27.317	35.377	22.902	0.682
130	26.822	35.359	23.047	0.732
140	25.826	35.334	23.341	0.779
150	23.222	35.233	24.047	0.821
160	20.910	35.175	24.653	0.856
170	18.955	35.060	25.080	0.888
180	17.639	34.938	25.314	0.916
190	15.453	34.830	25.741	0.941
200	12.247	34.618	26.245	0.961
250	10.857	34.744	26.603	1.039
300	10.055	34.699	26.708	1.111
350	9.886	34.719	26.753	1.180
400	9.158	34.670	26.834	1.246
450	8.388	34.623	26.920	1.308
500	7.716	34.591	26.995	1.368
502	7.639	34.591	27.006	1.370



CAST GP4-97-KA-0291 DATE 26 JUN 97 TIME 1005 GMT
LAT 04 58.8N LONG 179 53.4W WEATHER 1 SEA STATE 2
BAROMETER 09 WIND DIR 095 T SPD 01 KT VISIBILITY 7
CLOUD 9 AMOUNT DRY 27.7 WET 26.4 DEPTH 5514 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.512	34.177	21.277	0.000
10	29.317	34.174	21.341	0.065
20	29.232	34.168	21.364	0.129
30	29.191	34.180	21.387	0.193
40	29.200	34.261	21.445	0.257
50	28.499	34.709	22.014	0.320
60	28.311	34.979	22.279	0.376
70	27.401	34.966	22.566	0.430
80	26.828	34.958	22.743	0.483
90	26.548	35.030	22.886	0.533
100	25.046	34.883	23.240	0.582
110	24.325	34.950	23.509	0.627
120	23.112	34.883	23.814	0.669
130	20.957	34.816	24.367	0.708
140	18.725	34.762	24.910	0.741
150	17.450	34.720	25.192	0.771
160	15.882	34.673	25.524	0.798
170	14.290	34.640	25.848	0.821
180	13.590	34.624	25.983	0.842
190	12.361	34.603	26.212	0.862
200	11.714	34.605	26.337	0.880
250	9.647	34.641	26.732	0.955
300	9.029	34.637	26.830	1.021
350	8.577	34.623	26.890	1.083
400	8.121	34.607	26.947	1.143
450	7.809	34.594	26.984	1.201
500	7.344	34.580	27.040	1.257
550	6.973	34.570	27.084	1.311
600	6.600	34.560	27.127	1.362
650	6.171	34.551	27.176	1.413
700	5.819	34.548	27.218	1.461
750	5.551	34.548	27.251	1.507
800	5.208	34.552	27.296	1.551
900	4.684	34.558	27.361	1.635
1000	4.278	34.565	27.411	1.713
1003	4.272	34.565	27.411	1.715



CAST GP4-97-KA-0301 DATE 27 JUN 97 TIME 0629 GMT
LAT 07 59.8N LONG 179 49.0W WEATHER 1 SEA STATE 1
BAROMETER 07 WIND DIR 191 T SPD 02 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 29.7 WET 26.7 DEPTH 5918 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.542	34.389	21.426	0.000
10	29.540	34.387	21.425	0.064
20	29.336	34.388	21.495	0.127
30	29.327	34.406	21.511	0.190
40	29.365	34.470	21.547	0.253
50	29.321	34.476	21.566	0.315
60	28.175	34.563	22.011	0.376
70	26.970	34.636	22.456	0.432
80	24.951	34.778	23.190	0.483
90	22.423	34.833	23.973	0.527
100	20.534	34.827	24.489	0.564
110	17.755	34.747	25.140	0.595
120	16.167	34.666	25.453	0.622
130	14.491	34.551	25.737	0.647
140	13.317	34.540	25.973	0.668
150	12.220	34.526	26.179	0.688
160	11.604	34.563	26.325	0.706
170	11.283	34.599	26.412	0.723
180	11.057	34.640	26.486	0.739
190	10.921	34.658	26.524	0.755
200	10.750	34.661	26.557	0.770
250	10.142	34.683	26.681	0.843
300	9.637	34.670	26.756	0.912
350	9.207	34.653	26.814	0.978
400	8.878	34.639	26.855	1.042
450	8.422	34.618	26.910	1.104
460	8.353	34.616	26.919	1.116

CAST GP4-97-KA-0011 LAT 08 42.0N LONG 167 16.3E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.871	34.234	28.869	21.535
500.	7.773	34.563	7.722	26.972
1000.	4.590	34.551	4.510	27.375
1502.	3.039	34.593	2.931	27.570
1998.	2.238	34.634	2.099	27.671
2500.	1.862	34.659	1.684	27.723
2752.	1.756	34.647	1.557	27.738
3001.	1.667	34.670	1.446	27.750
3249.	1.587	34.677	1.344	27.762
3500.	1.502	34.683	1.236	27.774
3750.	1.438	34.692	1.148	27.785
4002.	1.398	34.693	1.082	27.793

CAST GP4-97-KA-0021 LAT 07 58.3N LONG 164 58.6E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
75.	24.570	34.697	24.554	23.246
150.	13.833	34.542	13.812	25.873
300.	9.252	34.603	9.219	26.772
501.	7.487	34.566	7.438	27.016
1001.	4.450	34.557	4.371	27.394
1000.	4.451	34.557	4.372	27.394
1502.	3.068	34.598	2.960	27.568
2001.	2.251	34.635	2.111	27.670
2500.	1.878	34.664	1.700	27.721
3004.	1.678	34.671	1.457	27.749

CAST GP4-97-KA-0022 LAT 07 59.6N LONG 165 04.3E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.957	34.172	28.955	21.460
200.	10.600	34.519	10.576	26.477
601.	6.718	34.545	6.662	27.108
1006.	4.482	34.557	4.402	27.390
1005.	4.483	34.557	4.403	27.390

CAST GP4-97-KA-0031 LAT 06 59.9N LONG 165 00.2E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.894	34.170	28.891	21.479
201.	10.988	34.545	10.963	26.429
602.	6.729	34.551	6.673	27.111
799.	5.398	34.545	5.331	27.275
1002.	4.411	34.558	4.332	27.400
1003.	4.407	34.558	4.328	27.400

CAST GP4-97-KA-0041 LAT 06 00.0N LONG 165 00.0E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.645	34.252	28.642	21.623
203.	11.555	34.558	11.529	26.334
603.	6.960	34.559	6.903	27.086
802.	5.409	34.543	5.341	27.274
1001.	4.398	34.560	4.319	27.401
1001.	4.399	34.560	4.320	27.401

CAST GP4-97-KA-0051 LAT 05 02.5N LONG 165 02.5E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.764	34.309	28.761	21.627
200.	11.622	34.542	11.596	26.314
600.	6.911	34.564	6.854	27.095
798.	5.584	34.542	5.515	27.252
1004.	4.436	34.558	4.357	27.397
1004.	4.436	34.558	4.357	27.397

CAST GP4-97-KA-0061 LAT 01 34.7N LONG 162 53.6E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.119	34.553	29.116	21.693
201.	12.857	34.930	12.830	26.375
601.	6.738	34.561	6.682	27.118
801.	5.683	34.539	5.613	27.237
1001.	4.317	34.559	4.239	27.410
1001.	4.317	34.558	4.239	27.411

CAST GP4-97-KA-0071 LAT 00 59.9N LONG 163 39.3E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.146	34.617	29.143	21.732
201.	13.243	34.681	13.215	26.101
601.	6.810	34.562	6.753	27.108
802.	5.575	34.540	5.505	27.251
1006.	4.504	34.552	4.424	27.386
1006.	4.504	34.554	4.424	27.386

CAST GP4-97-KA-0081 LAT 00 00.3N LONG 165 15.3E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.178	34.527	29.175	21.654
76.	29.166	34.572	29.147	21.695
151.	19.523	35.319	19.495	25.138
300.	11.498	34.833	11.460	26.560
501.	7.804	34.593	7.753	26.992
1001.	4.501	34.554	4.421	27.388
1500.	3.072	34.599	2.964	27.569
2001.	2.249	34.638	2.108	27.673
2500.	1.853	34.662	1.675	27.726
3002.	1.631	34.673	1.411	27.754
3002.	1.630	34.673	1.410	27.755
3002.	1.631	34.673	1.411	27.754

CAST GP4-97-KA-0091 LAT 00 00.6N LONG 165 00.5E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.167	34.540	29.164	21.665
200.	17.323	35.294	17.290	25.677
602.	7.175	34.574	7.117	27.067
800.	5.718	34.543	5.648	27.235
1002.	4.619	34.552	4.538	27.371
1002.	4.619	34.552	4.538	27.371

CAST GP4-97-KA-0101 LAT 00 30.2S LONG 165 00.6E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.217	34.467	29.214	21.594
600.	7.098	34.574	7.040	27.077
800.	5.627	34.540	5.558	27.244
1006.	4.602	34.552	4.521	27.373
1004.	4.602	34.551	4.521	27.373

CAST GP4-97-KA-0111 LAT 01 00.3S LONG 164 46.6E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
600.	6.847	34.564	6.790	27.105
801.	5.822	34.532	5.751	27.214
1003.	4.567	34.547	4.487	27.372
1002.	4.569	34.549	4.489	27.372

CAST GP4-97-KA-0121 LAT 01 30.2S LONG 164 25.2E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.318	34.756	29.316	21.778
200.	15.103	35.240	15.073	26.125
601.	6.954	34.568	6.897	27.093
801.	5.658	34.523	5.588	27.226
1001.	4.270	34.553	4.192	27.409
1001.	4.271	34.560	4.193	27.409

CAST GP4-97-KA-0131 LAT 01 54.9S LONG 164 25.0E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.346	34.770	29.344	21.779
202.	16.408	35.360	16.376	25.927
600.	6.924	34.566	6.866	27.097
800.	5.605	34.541	5.536	27.248
1004.	4.444	34.551	4.364	27.390
1004.	4.445	34.551	4.365	27.390

CAST GP4-97-KA-0141 LAT 03 00.0S LONG 164 38.2E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.169	34.810	29.167	21.865
201.	17.352	35.435	17.318	25.774
601.	6.957	34.559	6.899	27.086
801.	5.337	34.536	5.269	27.277
1001.	4.467	34.548	4.388	27.385
1000.	4.468	34.547	4.389	27.385

CAST GP4-97-KA-0151 LAT 04 00.0S LONG 164 55.1E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.183	34.855	29.181	21.897
600.	6.915	34.572	6.858	27.102
797.	5.088	34.531	5.023	27.301
1002.	4.359	34.550	4.280	27.398
1003.	4.360	34.549	4.282	27.398

CAST GP4-97-KA-0161 LAT 04 58.5S LONG 165 12.0E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.217	34.632	29.215	21.718
201.	17.526	35.474	17.492	25.763
601.	7.001	34.556	6.943	27.078
799.	5.365	34.518	5.298	27.258
1003.	4.286	34.538	4.208	27.397
1004.	4.284	34.538	4.206	27.397

CAST GP4-97-KA-0171 LAT 08 01.3S LONG 164 50.2E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.944	34.724	28.941	21.879
601.	6.986	34.554	6.929	27.077
799.	5.279	34.511	5.212	27.263
1004.	4.409	34.530	4.330	27.377
1004.	4.411	34.530	4.331	27.377

CAST GP4-97-KA-0181 LAT 05 01.9S LONG 179 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.455	35.115	29.453	22.021
200.	15.793	35.296	15.762	26.017
799.	5.511	34.529	5.442	27.249
1004.	4.409	34.539	4.330	27.383
1004.	4.407	34.538	4.328	27.384

CAST GP4-97-KA-0191 LAT 04 00.1S LONG 179 54.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.326	35.076	29.324	22.015
201.	14.398	35.135	14.368	26.215
601.	6.350	34.557	6.295	27.164
801.	5.114	34.532	5.048	27.299
999.	4.262	34.549	4.184	27.408
999.	4.262	34.549	4.184	27.409

CAST GP4-97-KA-0201 LAT 02 59.6S LONG 179 55.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.448	35.134	29.445	22.018
201.	14.090	35.106	14.061	26.257
599.	6.459	34.558	6.404	27.151
800.	5.139	34.544	5.073	27.302
1003.	4.329	34.551	4.250	27.403
1002.	4.329	34.551	4.250	27.403

CAST GP4-97-KA-0211 LAT 02 01.3S LONG 179 57.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.347	34.982	29.345	21.937
200.	14.455	35.157	14.426	26.209
601.	6.737	34.567	6.681	27.120
799.	5.341	34.542	5.274	27.280
1003.	4.397	34.552	4.318	27.396
1003.	4.397	34.552	4.318	27.396

CAST GP4-97-KA-0221 LAT 01 30.0S LONG 179 57.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
12.	29.299	34.818	29.296	21.830
603.	6.554	34.565	6.498	27.142
803.	5.436	34.542	5.367	27.270
1005.	4.204	34.563	4.127	27.425
1004.	4.204	34.563	4.127	27.425

CAST GP4-97-KA-0231 LAT 01 00.3S LONG 179 56.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.360	34.789	29.358	21.787
200.	14.973	35.166	14.943	26.113
601.	6.694	34.562	6.637	27.124
801.	5.466	34.543	5.398	27.266
1002.	4.316	34.559	4.238	27.411
1002.	4.317	34.559	4.239	27.411

CAST GP4-97-KA-0242 LAT 00 00.9N LONG 179 50.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.392	34.775	29.390	21.766
202.	15.469	35.188	15.438	26.009
600.	7.146	34.578	7.088	27.074
800.	5.673	34.545	5.603	27.242
1004.	4.553	34.554	4.472	27.380
1004.	4.558	34.552	4.477	27.380

CAST GP4-97-KA-0251 LAT 00 29.7N LONG 179 52.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.354	34.764	29.352	21.772
198.	14.773	35.074	14.743	26.088
601.	7.045	34.574	6.987	27.087
801.	5.671	34.546	5.601	27.245
1003.	4.583	34.552	4.503	27.377
1003.	4.583	34.552	4.503	27.377

CAST GP4-97-KA-0261 LAT 00 59.8N LONG 179 50.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.323	34.720	29.320	21.750
201.	14.951	35.010	14.921	25.998
600.	7.183	34.582	7.125	27.072
800.	5.548	34.547	5.479	27.259
1004.	4.424	34.558	4.345	27.398
1003.	4.425	34.557	4.345	27.398

CAST GP4-97-KA-0271 LAT 01 29.5N LONG 179 48.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.245	34.743	29.242	21.792
201.	13.783	34.913	13.754	26.179
601.	6.876	34.565	6.819	27.102
801.	5.587	34.548	5.518	27.255
999.	4.523	34.556	4.443	27.385
999.	4.522	34.555	4.443	27.386

CAST GP4-97-KA-0282 LAT 01 59.2N LONG 179 47.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
8.	29.307	34.782	29.305	21.801
198.	11.423	34.584	11.399	26.379
599.	6.733	34.562	6.677	27.118
799.	5.349	34.542	5.281	27.280
999.	4.417	34.559	4.338	27.400
1000.	4.415	34.559	4.336	27.400

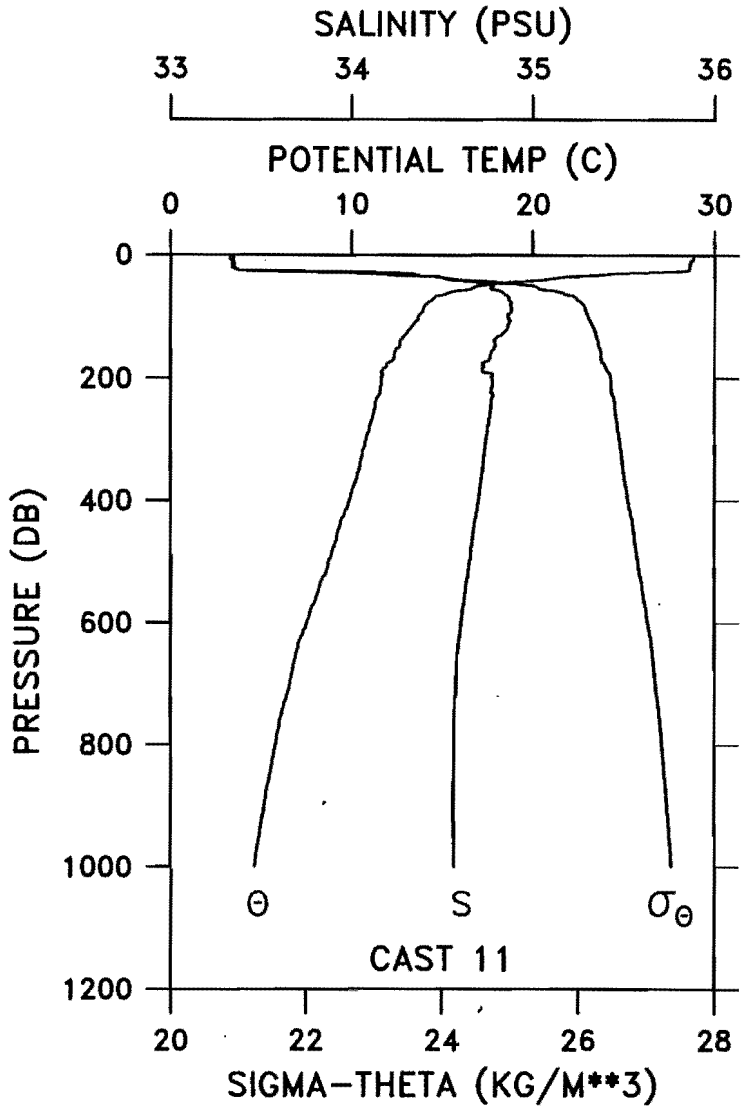
CAST GP4-97-KA-0283 LAT 02 00.2N LONG 179 46.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.372	34.831	29.370	21.815
202.	12.126	34.594	12.100	26.255
500.	7.754	34.590	7.704	26.994
502.	7.714	34.588	7.664	27.000

CAST GP4-97-KA-0291 LAT 04 58.8N LONG 179 53.4W

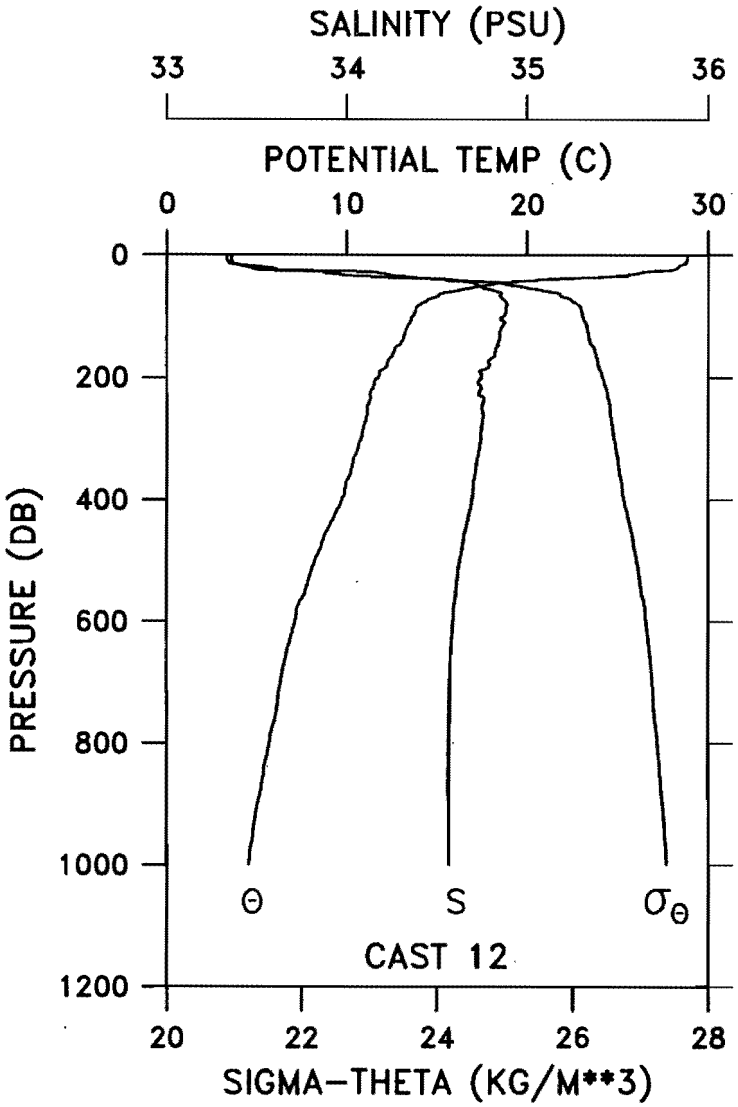
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.308	34.172	29.305	21.342
202.	11.732	34.596	11.706	26.332
601.	6.651	34.550	6.595	27.128
802.	5.252	34.559	5.185	27.298
1001.	4.352	34.564	4.274	27.411
1002.	4.350	34.564	4.272	27.411

GP5-97-KA
July 31–August 29, 1997
CTD and Hydrographic Data Summary



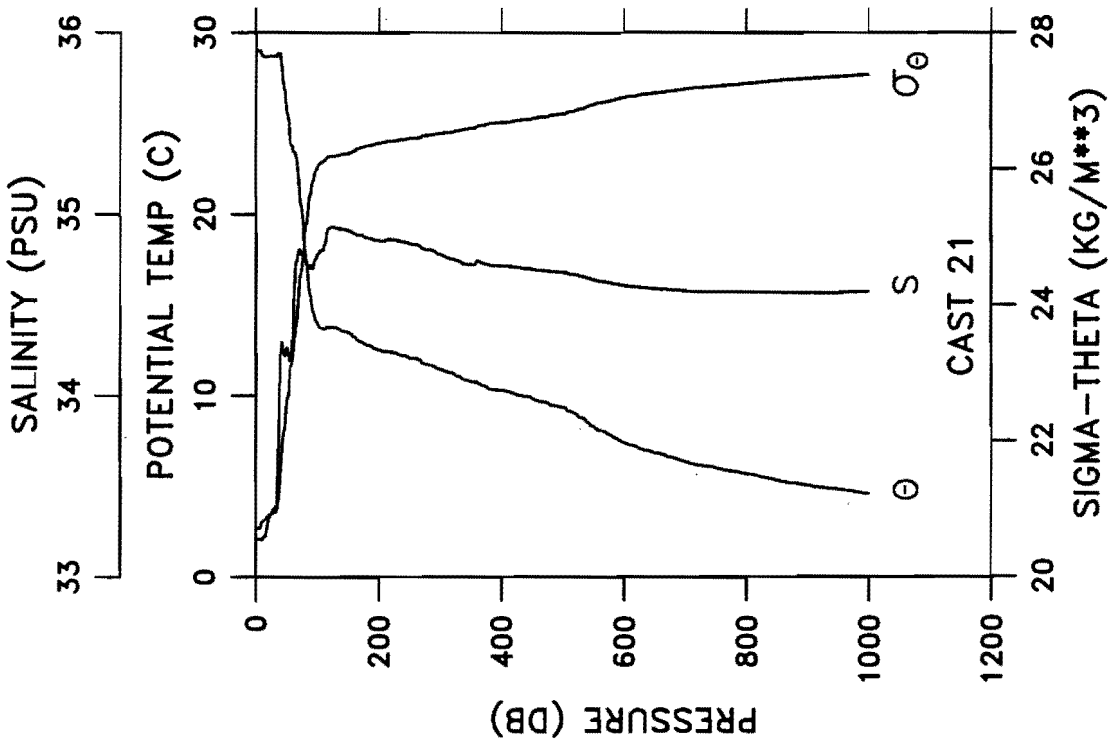
CAST GP5-97-KA-0011 DATE 05 AUG 97 TIME 0316 GMT
LAT 08 05.7N LONG 95 00.4W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 098 T SPD 04 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.7 WET 26.0 DEPTH 3642 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.851	33.351	20.878	0.000
10	28.679	33.345	20.930	0.069
20	28.629	33.342	20.945	0.137
30	24.598	34.341	22.966	0.200
40	20.659	34.537	24.235	0.242
50	17.046	34.784	25.338	0.273
60	15.488	34.831	25.734	0.298
70	14.532	34.871	25.975	0.319
80	14.063	34.879	26.081	0.339
90	13.942	34.883	26.109	0.359
100	13.670	34.864	26.152	0.378
110	13.484	34.870	26.194	0.396
120	13.235	34.860	26.237	0.415
130	12.959	34.824	26.265	0.433
140	12.663	34.788	26.296	0.450
150	12.591	34.789	26.311	0.468
160	12.367	34.767	26.338	0.485
170	12.307	34.761	26.345	0.502
180	11.933	34.731	26.394	0.519
190	11.621	34.725	26.448	0.536
200	11.651	34.775	26.481	0.552
250	11.287	34.768	26.543	0.630
300	10.819	34.742	26.608	0.706
350	10.422	34.726	26.665	0.780
400	9.881	34.701	26.739	0.851
450	9.261	34.673	26.821	0.918
500	8.744	34.652	26.886	0.983
550	8.189	34.628	26.954	1.044
600	7.552	34.607	27.032	1.102
650	6.971	34.588	27.099	1.157
700	6.619	34.578	27.139	1.209
750	6.146	34.570	27.194	1.259
800	5.808	34.568	27.236	1.307
900	5.163	34.565	27.312	1.397
1000	4.635	34.568	27.374	1.480
1500	2.985	34.610	27.575	1.828
2000	2.108	34.647	27.680	2.109
2500	1.666	34.669	27.732	2.350
3000	1.589	34.673	27.742	2.584
3338	1.557	34.675	27.745	2.747



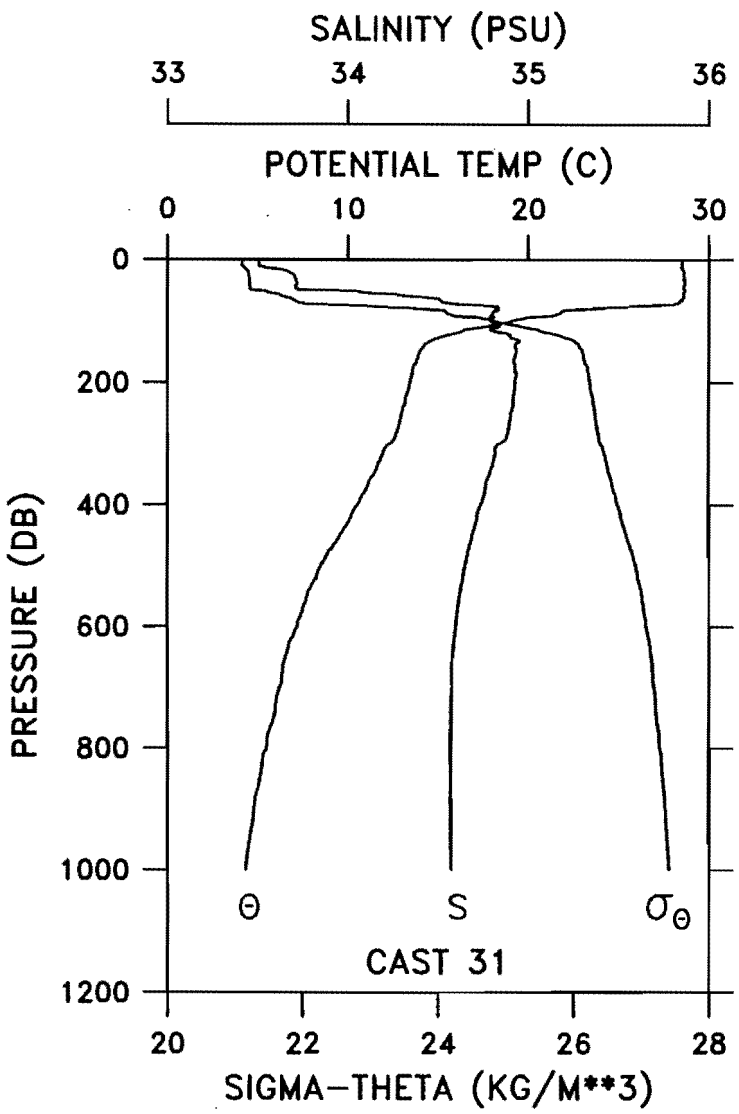
CAST GP5-97-KA-0012 DATE 05 AUG 97 TIME 2245 GMT
LAT 08 00.6N LONG 94 57.8W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 075 T SPD 12 KT VISIBILITY 7
CLOUD 6 AMOUNT 6 DRY 28.2 WET 25.3 DEPTH 3682 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.855	33.361	20.884	0.000
10	28.827	33.360	20.893	0.069
20	28.332	33.544	21.194	0.137
30	26.130	34.185	22.380	0.198
40	20.796	34.549	24.207	0.246
50	17.709	34.725	25.134	0.278
60	15.829	34.833	25.659	0.303
70	14.753	34.862	25.920	0.325
80	14.154	34.889	26.069	0.346
90	13.848	34.882	26.129	0.365
100	13.687	34.870	26.153	0.384
110	13.526	34.879	26.193	0.402
120	13.312	34.854	26.217	0.421
130	13.227	34.849	26.231	0.439
140	13.104	34.845	26.252	0.457
150	12.734	34.831	26.316	0.475
160	12.569	34.822	26.342	0.492
170	12.361	34.798	26.363	0.509
180	12.261	34.792	26.378	0.526
190	11.818	34.736	26.419	0.543
200	11.765	34.748	26.438	0.559
250	11.158	34.750	26.553	0.638
300	10.801	34.747	26.614	0.713
350	10.264	34.717	26.686	0.786
400	9.743	34.696	26.759	0.856
450	8.936	34.660	26.862	0.922
500	8.237	34.629	26.947	0.984
550	7.698	34.609	27.011	1.042
600	7.115	34.592	27.082	1.097
650	6.652	34.582	27.137	1.149
700	6.329	34.574	27.174	1.200
750	6.061	34.571	27.206	1.248
800	5.692	34.568	27.250	1.295
900	5.024	34.567	27.329	1.384
1000	4.547	34.570	27.385	1.466
1397	3.232	34.605	27.548	1.745



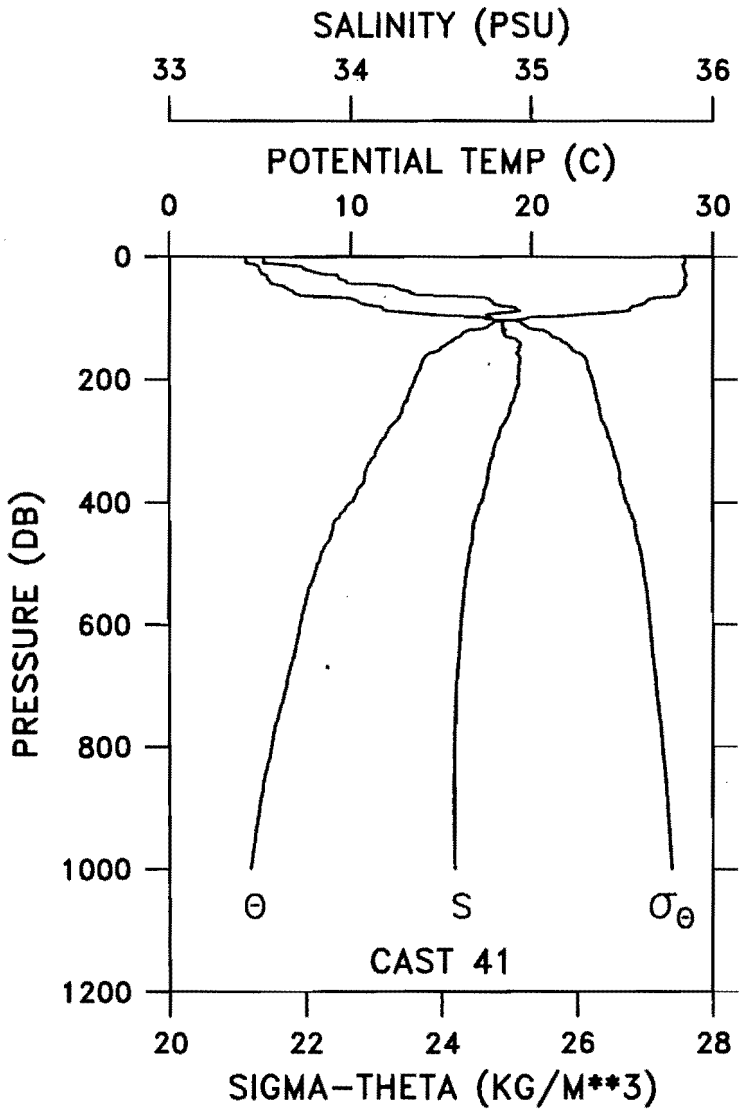
CAST GP5-97-KA-0021 DATE 06 AUG 97 TIME 1228 GMT
LAT 06 00.6N LONG 94 53.5W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 270 T SPD 04 KT VISIBILITY 7
CLOUD 6 AMOUNT 6 DRY 27.2 WET 25.1 DEPTH 3007 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.021	33.210	20.716	0.000
10	28.729	33.205	20.809	0.070
20	28.685	33.308	20.901	0.140
30	28.699	33.377	20.948	0.208
40	28.646	34.226	21.603	0.275
50	25.657	34.263	22.585	0.332
60	23.447	34.319	23.290	0.382
70	21.595	34.798	24.179	0.424
80	17.812	34.749	25.127	0.457
90	15.135	34.719	25.726	0.483
100	13.954	34.778	26.026	0.504
110	13.658	34.814	26.115	0.524
120	13.751	34.923	26.180	0.542
130	13.721	34.923	26.187	0.561
140	13.561	34.917	26.215	0.579
150	13.469	34.909	26.228	0.598
160	13.216	34.893	26.267	0.616
170	12.977	34.887	26.310	0.634
180	12.760	34.868	26.339	0.651
190	12.617	34.862	26.362	0.668
200	12.510	34.854	26.378	0.685
250	12.069	34.836	26.449	0.768
300	11.438	34.778	26.523	0.849
350	10.786	34.724	26.599	0.926
400	10.284	34.715	26.681	1.000
450	9.835	34.697	26.743	1.071
500	9.361	34.679	26.808	1.139
550	8.293	34.640	26.947	1.203
600	7.405	34.608	27.053	1.261
650	6.846	34.590	27.117	1.314
700	6.344	34.577	27.174	1.365
750	5.996	34.573	27.216	1.413
800	5.666	34.571	27.256	1.460
900	5.030	34.566	27.328	1.548
1000	4.565	34.575	27.387	1.630
1103	4.132	34.582	27.440	1.709



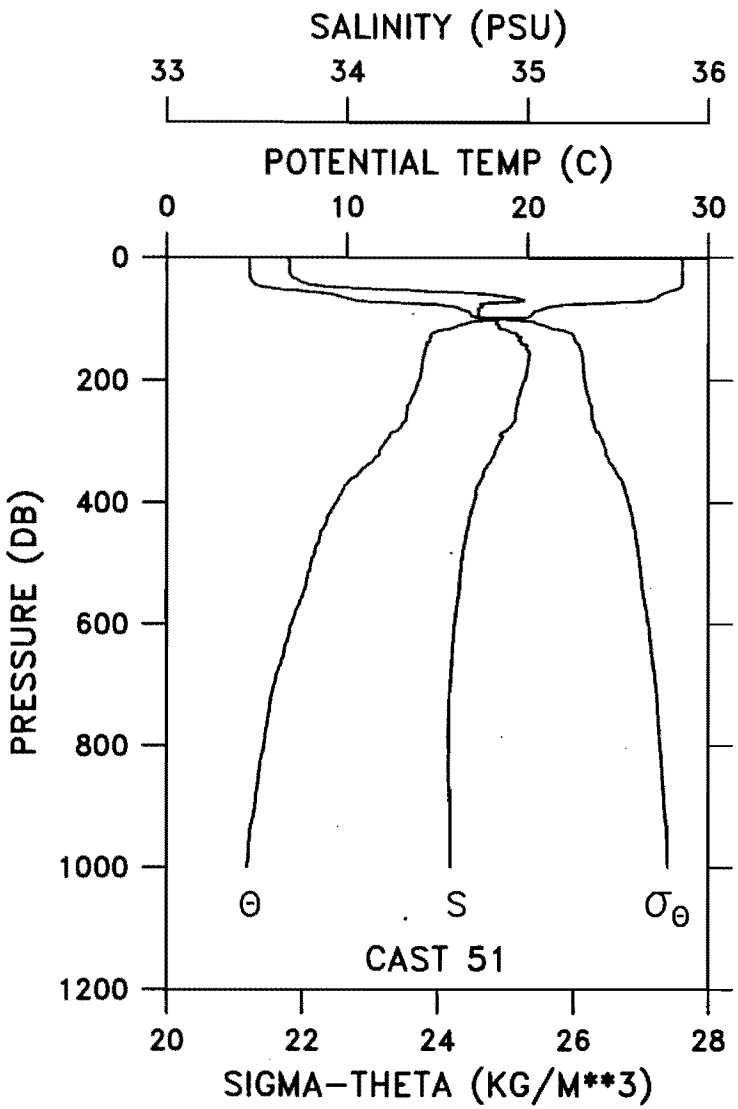
CAST GP5-97-KA-0031 DATE 06 AUG 97 TIME 2057 GMT
LAT 05 00.7N LONG 94 51.9W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 159 T SPD 05 KT VISIBILITY 7
CLOUD 3 AMOUNT 6 DRY 29.5 WET 26.1 DEPTH 3530 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.519	33.510	21.107	0.000
10	28.517	33.507	21.106	0.067
20	28.623	33.676	21.198	0.133
30	28.650	33.709	21.213	0.199
40	28.653	33.718	21.219	0.265
50	28.668	33.851	21.314	0.330
60	28.608	34.368	21.722	0.393
70	28.315	34.548	21.954	0.453
80	23.239	34.820	23.730	0.504
90	21.523	34.798	24.198	0.542
100	19.061	34.791	24.847	0.576
110	17.466	34.827	25.271	0.605
120	15.921	34.885	25.678	0.631
130	14.757	34.940	25.979	0.653
140	14.228	34.925	26.082	0.673
150	14.000	34.932	26.135	0.692
160	13.885	34.923	26.153	0.711
170	13.728	34.925	26.187	0.730
180	13.602	34.923	26.211	0.748
190	13.556	34.932	26.228	0.767
200	13.440	34.926	26.247	0.785
250	12.999	34.903	26.318	0.875
300	12.327	34.840	26.402	0.962
350	11.441	34.785	26.527	1.044
400	10.565	34.739	26.650	1.120
450	9.570	34.690	26.783	1.191
500	8.524	34.649	26.919	1.255
550	7.748	34.620	27.013	1.314
600	7.205	34.601	27.076	1.369
650	6.537	34.582	27.153	1.421
700	6.225	34.579	27.191	1.471
750	5.888	34.572	27.229	1.518
800	5.491	34.569	27.275	1.564
900	4.779	34.570	27.360	1.648
1000	4.336	34.575	27.412	1.727
1500	2.806	34.618	27.598	2.058
1501	2.806	34.618	27.598	2.059



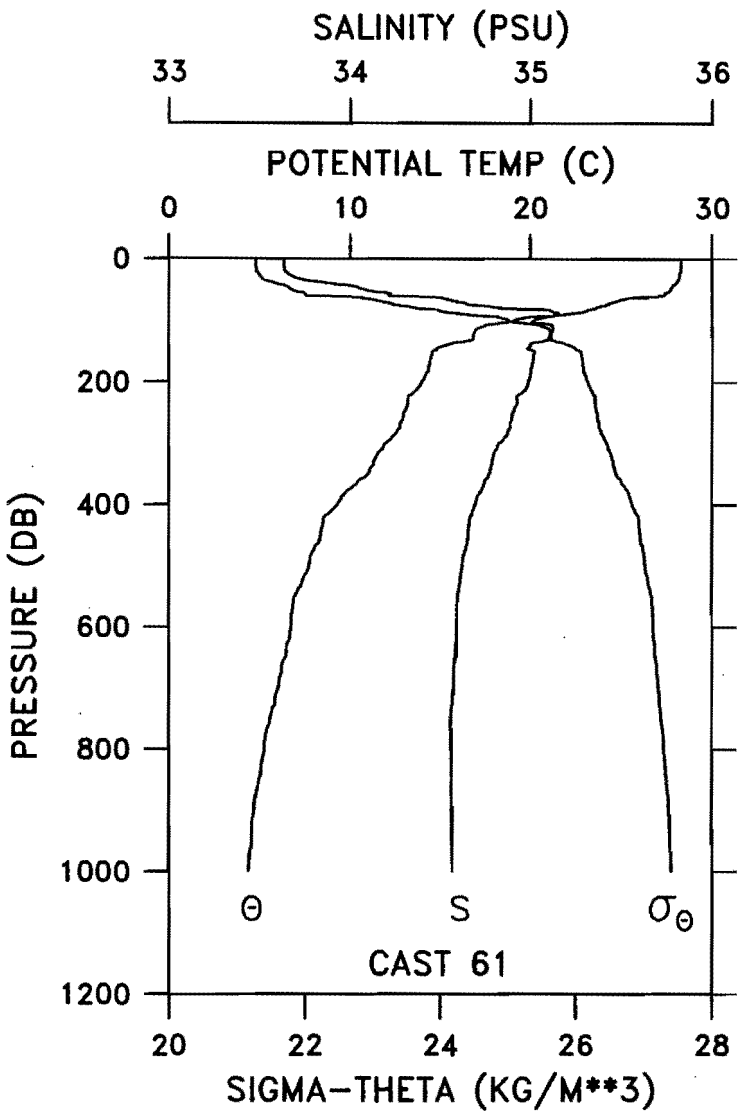
CAST GP5-97-KA-0041 DATE 07 AUG 97 TIME 0408 GMT
LAT 03 59.7N LONG 94 54.9W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 187 T SPD 03 KT VISIBILITY 7
CLOUD 3 AMOUNT 6 DRY 26.1 WET 25.0 DEPTH 3198 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.487	33.519	21.124	0.000
10	28.485	33.516	21.123	0.067
20	28.412	33.741	21.315	0.132
30	28.512	33.924	21.420	0.196
40	28.474	33.977	21.473	0.260
50	28.403	34.249	21.701	0.322
60	28.169	34.338	21.844	0.383
70	26.476	34.769	22.712	0.439
80	25.693	34.830	23.002	0.489
90	24.610	34.895	23.382	0.537
100	19.773	34.769	24.647	0.576
110	17.757	34.841	25.211	0.606
120	16.480	34.843	25.517	0.633
130	16.005	34.864	25.643	0.657
140	15.411	34.937	25.833	0.680
150	14.957	34.928	25.926	0.702
160	14.202	34.927	26.089	0.722
170	13.945	34.934	26.148	0.741
180	13.855	34.928	26.163	0.760
190	13.679	34.928	26.199	0.779
200	13.543	34.927	26.227	0.798
250	12.823	34.878	26.335	0.887
300	11.670	34.802	26.498	0.971
350	10.794	34.759	26.625	1.049
400	10.042	34.723	26.729	1.121
450	8.947	34.671	26.870	1.187
500	8.124	34.644	26.976	1.248
550	7.599	34.623	27.037	1.305
600	7.180	34.609	27.086	1.359
650	6.854	34.599	27.123	1.412
700	6.423	34.586	27.171	1.463
750	5.963	34.579	27.225	1.511
800	5.586	34.573	27.267	1.557
900	4.935	34.570	27.342	1.644
1000	4.441	34.576	27.402	1.724
1302	3.249	34.607	27.548	1.932



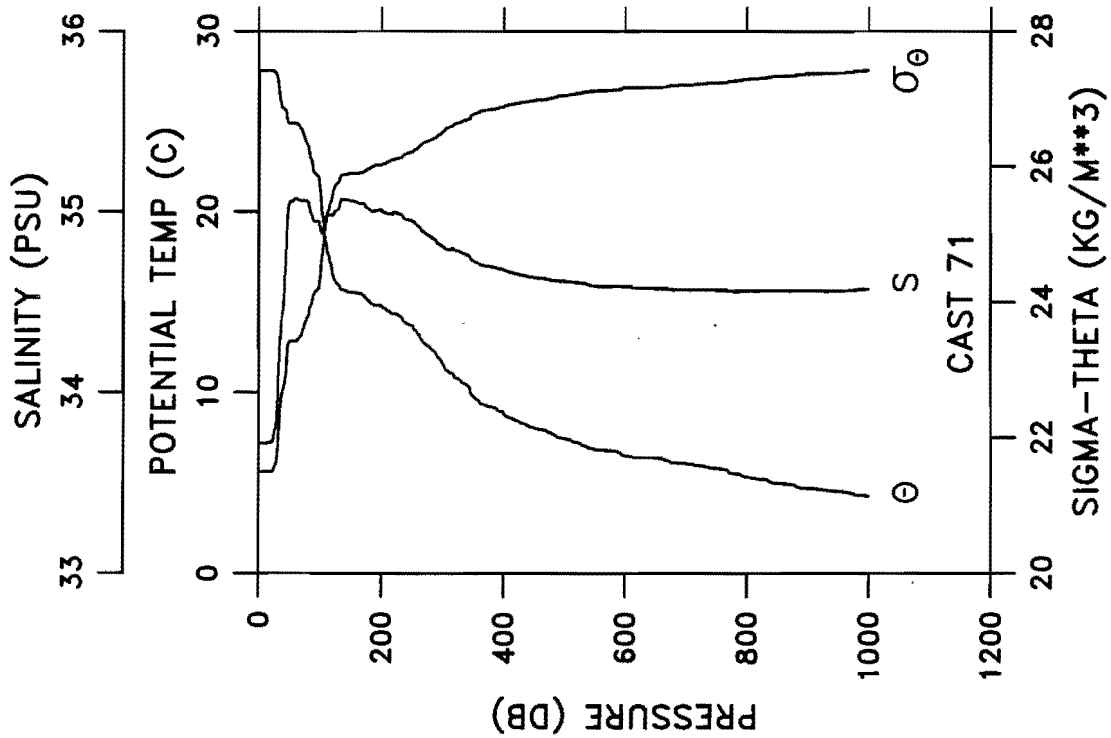
CAST GP5-97-KA-0051 DATE 07 AUG 97 TIME 1122 GMT
LAT 03 00.3N LONG 94 58.8W WEATHER 5 SEA STATE 3
BAROMETER 08 WIND DIR 150 T SPD 09 KT VISIBILITY 6
CLOUD AMOUNT 9 DRY 26.9 WET 24.9 DEPTH 2691 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.546	33.679	21.225	0.000
10	28.554	33.682	21.225	0.066
20	28.546	33.680	21.226	0.131
30	28.556	33.691	21.231	0.197
40	28.562	33.750	21.273	0.262
50	28.326	34.031	21.562	0.327
60	27.302	34.793	22.468	0.385
70	26.701	34.975	22.796	0.437
80	21.159	34.746	24.259	0.480
90	20.296	34.727	24.476	0.516
100	18.532	34.774	24.968	0.549
110	16.237	34.839	25.570	0.576
120	14.976	34.897	25.898	0.599
130	14.648	34.965	26.022	0.619
140	14.408	34.963	26.073	0.639
150	14.352	34.996	26.110	0.659
160	14.256	35.007	26.139	0.678
170	14.192	35.002	26.149	0.697
180	14.150	34.997	26.154	0.716
190	14.100	34.991	26.160	0.735
200	14.005	34.982	26.173	0.754
250	13.332	34.935	26.276	0.847
300	12.173	34.843	26.435	0.935
350	10.714	34.754	26.636	1.014
400	9.429	34.703	26.816	1.083
450	8.552	34.662	26.924	1.146
500	8.008	34.633	26.985	1.205
550	7.589	34.619	27.036	1.262
600	6.918	34.598	27.113	1.316
650	6.496	34.584	27.160	1.366
700	5.947	34.575	27.223	1.415
750	5.617	34.565	27.257	1.461
800	5.380	34.564	27.285	1.505
900	4.884	34.570	27.348	1.590
1000	4.434	34.575	27.402	1.670
1003	4.425	34.573	27.401	1.672



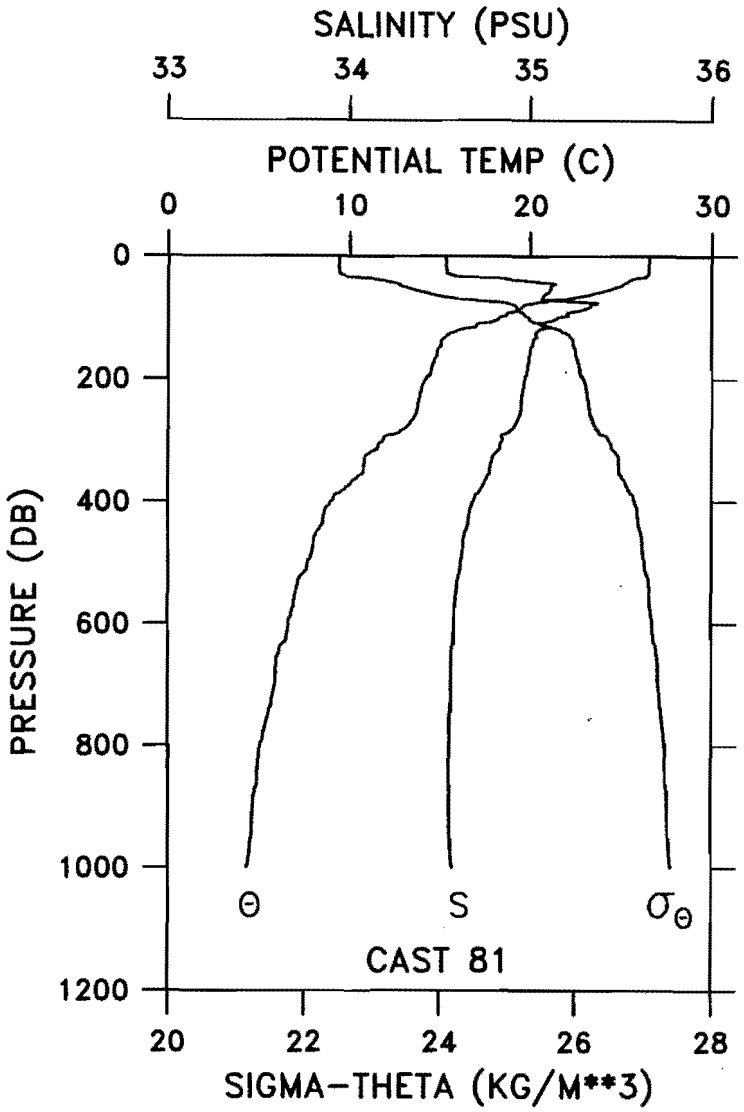
CAST GP5-97-KA-0061 DATE 07 AUG 97 TIME 2317 GMT
LAT 02 00.0N LONG 95 01.3W WEATHER 2 SEA STATE 3
BAROMETER 08 WIND DIR 183 T SPD 16 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 27.4 WET 24.9 DEPTH 2867 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.288	33.634	21.276	0.000
10	28.285	33.634	21.277	0.065
20	28.270	33.639	21.285	0.130
30	28.186	33.691	21.352	0.195
40	27.967	33.894	21.576	0.258
50	27.701	34.084	21.805	0.320
60	27.043	34.228	22.125	0.378
70	24.622	34.592	23.149	0.429
80	23.608	34.852	23.646	0.474
90	22.009	35.151	24.332	0.513
100	19.090	35.018	25.013	0.545
110	17.394	35.124	25.516	0.572
120	16.873	35.114	25.633	0.596
130	16.814	35.108	25.643	0.620
140	15.354	34.996	25.891	0.643
150	14.605	35.023	26.076	0.663
160	14.500	35.018	26.095	0.683
170	14.426	35.013	26.107	0.703
180	14.359	35.005	26.116	0.722
190	14.175	35.000	26.151	0.741
200	13.986	34.989	26.182	0.760
250	12.994	34.902	26.319	0.851
300	11.948	34.825	26.464	0.937
350	11.007	34.771	26.596	1.016
400	9.321	34.694	26.827	1.085
450	8.362	34.653	26.947	1.146
500	7.726	34.621	27.017	1.203
550	6.911	34.597	27.114	1.258
600	6.727	34.593	27.136	1.309
650	6.412	34.584	27.171	1.359
700	6.014	34.575	27.216	1.407
750	5.562	34.558	27.259	1.453
800	5.251	34.561	27.298	1.497
900	4.667	34.563	27.367	1.580
1000	4.353	34.569	27.406	1.659
1500	2.916	34.612	27.583	2.005
1503	2.911	34.611	27.583	2.006



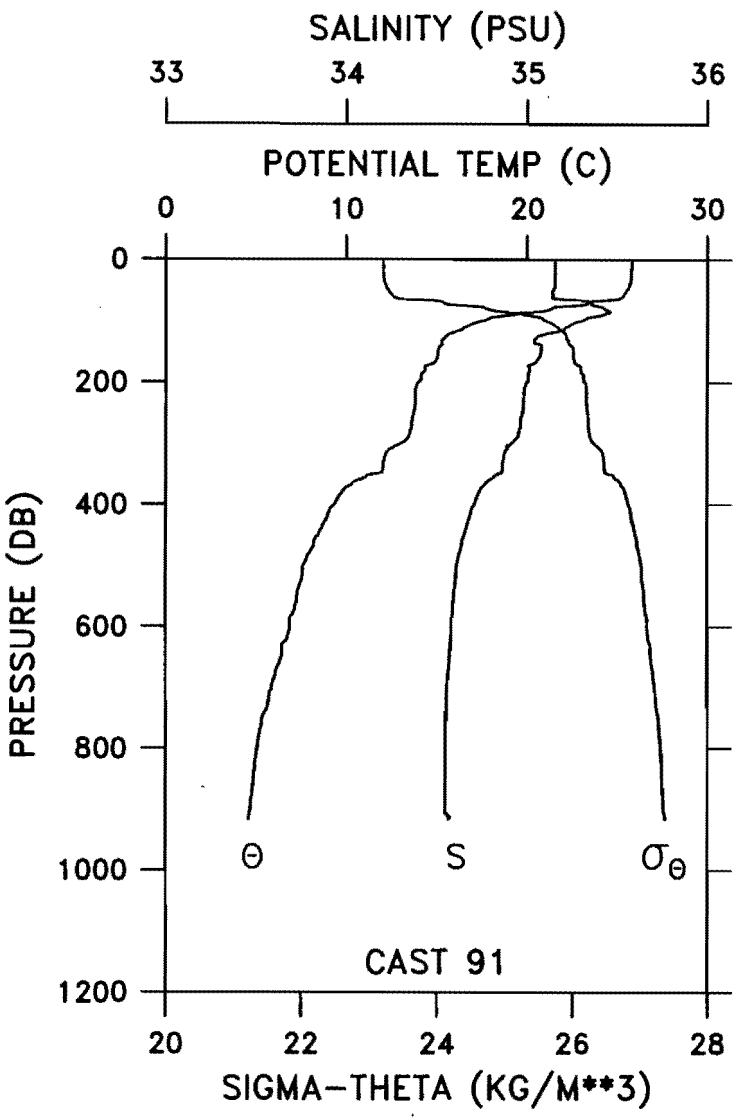
CAST GP5-97-KA-0071 DATE 08 AUG 97 TIME 0724 GMT
LAT 01 00.3N LONG 94 58.9W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 174 T SPD 10 KT VISIBILITY 7
CLOUD AMOUNT 4 DRY 26.3 WET 24.5 DEPTH 3117 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.800	33.720	21.499	0.000
10	27.800	33.720	21.499	0.063
20	27.809	33.726	21.501	0.126
30	27.505	33.895	21.726	0.188
40	25.728	34.459	22.711	0.243
50	24.890	35.049	23.414	0.291
60	24.925	35.073	23.421	0.336
70	24.564	35.060	23.521	0.381
80	23.660	35.054	23.784	0.423
90	22.188	34.947	24.126	0.463
100	21.251	34.911	24.359	0.501
110	18.206	34.971	25.200	0.532
120	16.639	34.979	25.584	0.558
130	15.949	35.017	25.773	0.581
140	15.650	35.067	25.880	0.603
150	15.547	35.061	25.898	0.625
160	15.507	35.053	25.901	0.646
170	15.393	35.046	25.921	0.667
180	15.050	35.013	25.971	0.688
190	14.799	35.005	26.020	0.709
200	14.775	35.006	26.027	0.729
250	13.686	34.951	26.216	0.827
300	11.593	34.808	26.517	0.913
350	9.799	34.728	26.774	0.986
400	8.889	34.679	26.885	1.050
450	8.066	34.637	26.979	1.110
500	7.464	34.616	27.051	1.166
550	6.857	34.590	27.116	1.218
600	6.491	34.585	27.161	1.269
650	6.383	34.576	27.168	1.319
700	6.054	34.568	27.204	1.367
750	5.815	34.568	27.235	1.414
800	5.322	34.562	27.290	1.460
900	4.690	34.563	27.364	1.544
1000	4.272	34.572	27.417	1.622
1010	4.234	34.572	27.421	1.630



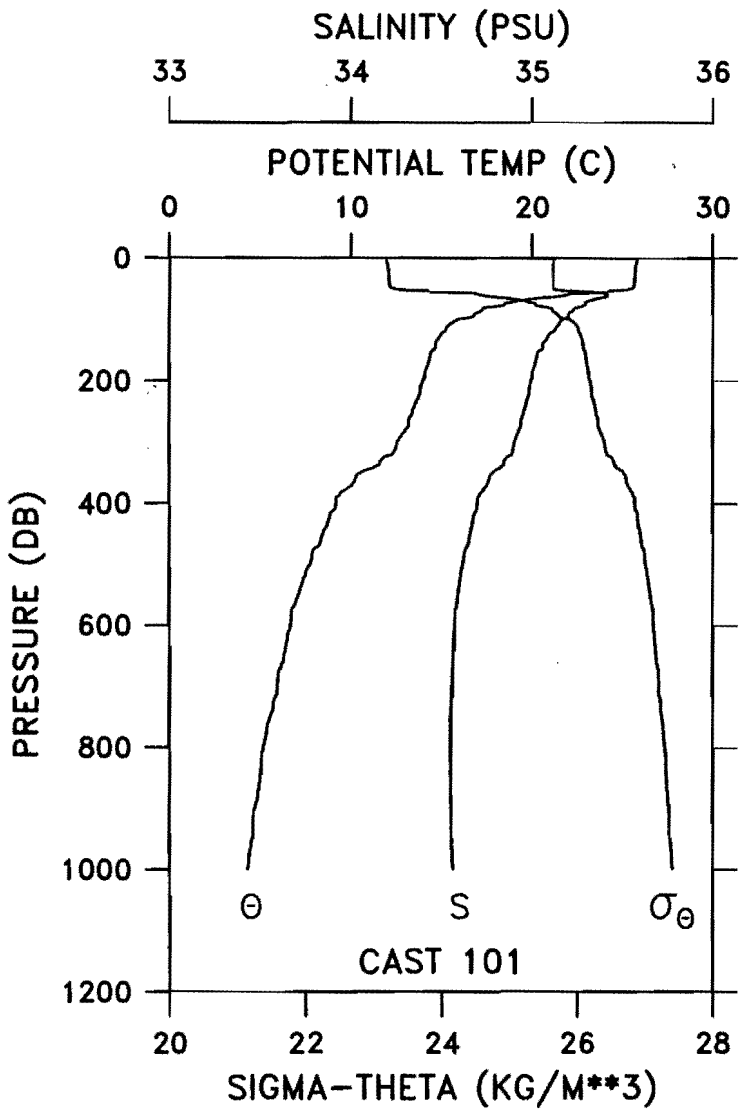
CAST GP5-97-KA-0081 DATE 09 AUG 97 TIME 0201 GMT
LAT 00 01.2S LONG 94 59.8W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 184 T SPD 09 KT VISIBILITY 7
CLOUD 3 AMOUNT 2 DRY 26.0 WET 23.5 DEPTH 3337 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.549	34.531	22.509	0.000
10	26.553	34.533	22.510	0.053
20	26.553	34.537	22.512	0.107
30	26.484	34.563	22.554	0.160
40	25.441	34.978	23.192	0.210
50	24.804	35.113	23.488	0.255
60	23.581	35.094	23.838	0.298
70	21.644	35.074	24.374	0.337
80	19.648	35.338	25.113	0.368
90	19.051	35.234	25.188	0.396
100	18.291	35.150	25.316	0.424
110	17.039	35.059	25.552	0.450
120	16.009	35.047	25.783	0.474
130	15.359	35.037	25.922	0.496
140	15.074	35.017	25.970	0.517
150	14.905	35.002	25.995	0.537
160	14.835	34.998	26.007	0.558
170	14.677	34.993	26.038	0.578
180	14.547	34.986	26.060	0.598
190	14.483	34.982	26.071	0.618
200	14.188	34.970	26.125	0.638
250	13.717	34.947	26.206	0.733
300	11.852	34.847	26.499	0.822
350	10.780	34.776	26.641	0.897
400	8.987	34.684	26.873	0.965
450	8.193	34.638	26.961	1.026
500	7.673	34.613	27.018	1.083
550	7.017	34.590	27.093	1.137
600	6.622	34.580	27.139	1.189
650	6.085	34.567	27.200	1.238
700	5.884	34.562	27.222	1.285
750	5.475	34.555	27.267	1.331
800	5.047	34.552	27.315	1.375
900	4.685	34.553	27.357	1.458
1000	4.314	34.569	27.410	1.538
1003	4.303	34.568	27.411	1.540



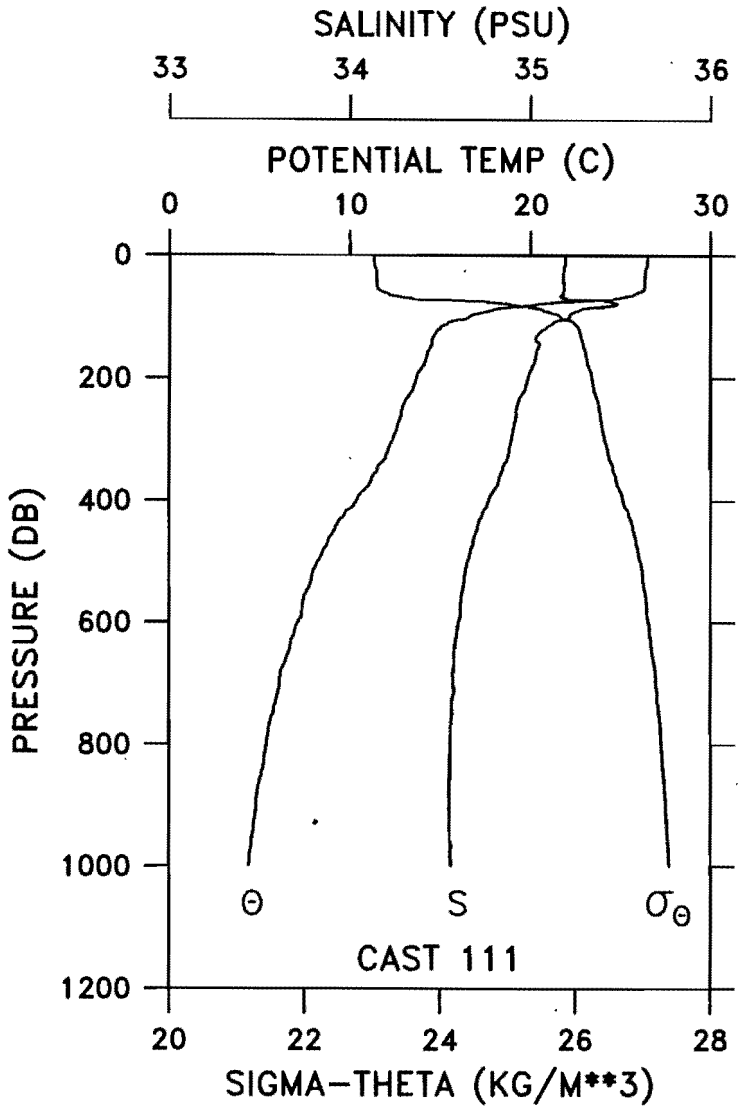
CAST GP5-97-KA-0091 DATE 09 AUG 97 TIME 0915 GMT
LAT 00 59.8S LONG 95 09.0W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 145 T SPD 12 KT VISIBILITY 7
CLOUD 3 AMOUNT 4 DRY 25.6 WET 23.0 DEPTH 3319 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.805	35.154	23.212	0.000
10	25.809	35.155	23.212	0.047
20	25.801	35.155	23.214	0.093
30	25.774	35.155	23.223	0.140
40	25.690	35.155	23.248	0.186
50	25.526	35.144	23.291	0.232
60	25.295	35.140	23.359	0.278
70	23.369	35.352	24.095	0.321
80	21.363	35.429	24.722	0.356
90	19.229	35.421	25.285	0.386
100	17.552	35.297	25.611	0.411
110	16.555	35.215	25.786	0.434
120	15.765	35.112	25.888	0.456
130	15.308	35.040	25.935	0.477
140	15.242	35.082	25.982	0.498
150	15.061	35.075	26.017	0.519
160	15.008	35.064	26.020	0.539
170	14.733	35.029	26.054	0.559
180	14.347	35.014	26.125	0.579
190	14.127	35.005	26.165	0.598
200	13.955	34.995	26.194	0.617
250	13.712	34.973	26.227	0.710
300	12.970	34.911	26.330	0.802
350	11.535	34.835	26.549	0.885
400	9.341	34.706	26.833	0.954
450	8.465	34.652	26.930	1.016
500	7.629	34.609	27.022	1.074
550	7.279	34.593	27.059	1.129
600	6.869	34.581	27.107	1.182
650	6.434	34.571	27.158	1.233
700	5.876	34.559	27.220	1.281
750	5.359	34.552	27.278	1.327
800	5.092	34.550	27.308	1.371
900	4.725	34.550	27.350	1.454
916	4.640	34.566	27.372	1.467



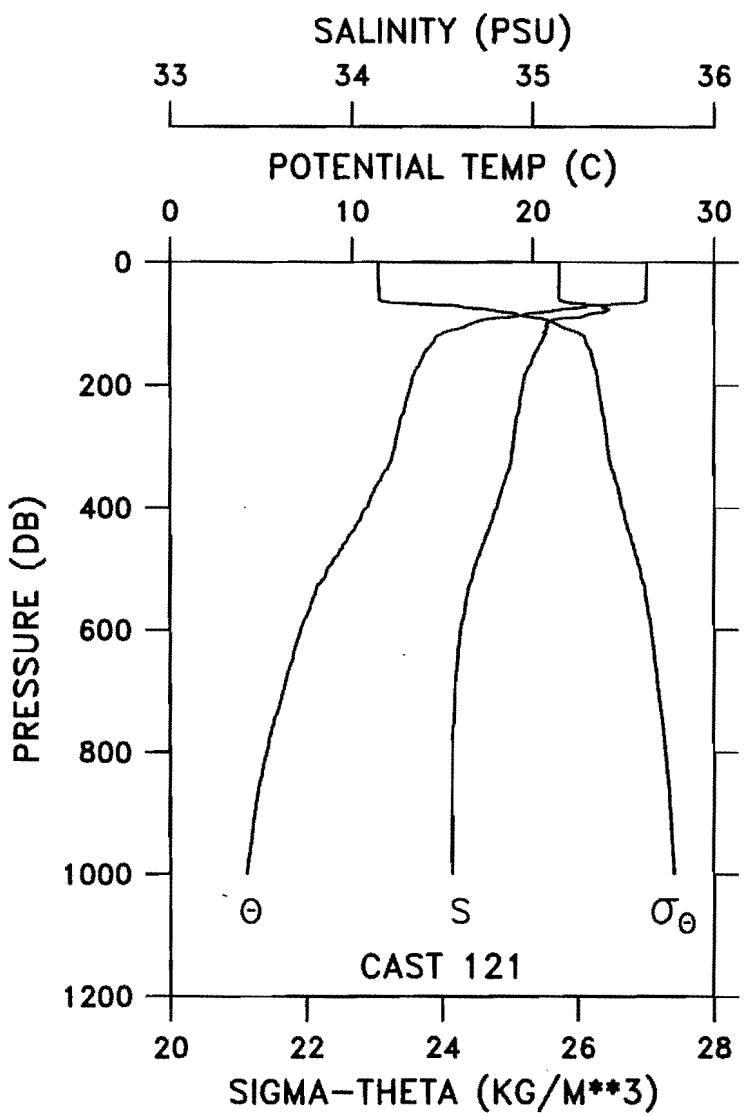
CAST GP5-97-KA-0101 DATE 09 AUG 97 TIME 1711 GMT
LAT 01 54.6S LONG 95 19.3W WEATHER 1 SEA STATE 3
BAROMETER 12 WIND DIR 173 T SPD 08 KT VISIBILITY 7
CLOUD 3 AMOUNT 6 DRY 26.0 WET 22.5 DEPTH 3397 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.825	35.124	23.184	0.000
10	25.761	35.119	23.199	0.047
20	25.720	35.118	23.212	0.093
30	25.706	35.120	23.217	0.140
40	25.681	35.120	23.225	0.187
50	25.404	35.124	23.313	0.233
60	21.878	35.418	24.571	0.273
70	19.055	35.309	25.244	0.303
80	17.544	35.252	25.578	0.329
90	16.862	35.205	25.705	0.353
100	15.876	35.169	25.907	0.375
110	15.355	35.144	26.005	0.396
120	15.120	35.111	26.032	0.416
130	14.834	35.085	26.074	0.436
140	14.651	35.058	26.094	0.456
150	14.493	35.042	26.116	0.475
160	14.349	35.026	26.134	0.494
170	14.258	35.017	26.147	0.513
180	14.146	35.007	26.162	0.532
190	14.075	35.001	26.172	0.551
200	13.933	34.991	26.195	0.570
250	13.386	34.953	26.279	0.662
300	12.536	34.901	26.409	0.750
350	10.525	34.781	26.690	0.830
400	9.167	34.695	26.853	0.897
450	8.453	34.656	26.935	0.959
500	7.749	34.617	27.011	1.017
550	7.093	34.589	27.082	1.072
600	6.664	34.572	27.128	1.123
650	6.308	34.563	27.168	1.174
700	5.956	34.557	27.208	1.222
750	5.547	34.549	27.253	1.268
800	5.165	34.549	27.299	1.313
900	4.706	34.552	27.354	1.397
1000	4.294	34.563	27.408	1.477
1004	4.283	34.563	27.409	1.480



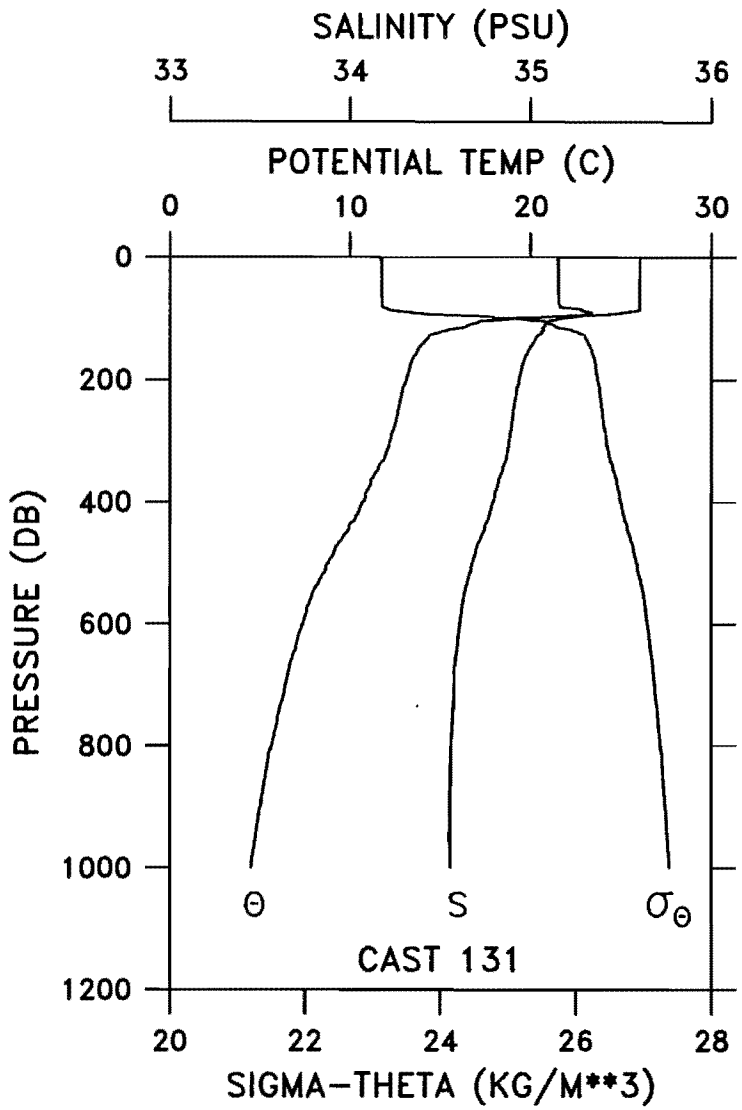
CAST GP5-97-KA-0111 DATE 10 AUG 97 TIME 0134 GMT
LAT 02 59.9S LONG 95 15.3W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 142 T SPD 08 KT VISIBILITY 7
CLOUD 3 AMOUNT 6 DRY 25.5 WET 22.0 DEPTH 3652 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.495	35.193	23.026	0.000
10	26.500	35.192	23.024	0.048
20	26.420	35.186	23.044	0.097
30	26.367	35.183	23.058	0.145
40	26.354	35.183	23.063	0.193
50	26.341	35.184	23.067	0.241
60	25.995	35.179	23.172	0.289
70	24.693	35.201	23.588	0.335
80	20.309	35.479	25.046	0.370
90	17.847	35.266	25.515	0.397
100	16.591	35.216	25.778	0.420
110	15.424	35.126	25.976	0.442
120	14.974	35.081	26.041	0.462
130	14.659	35.038	26.076	0.482
140	14.518	35.032	26.102	0.501
150	14.436	35.043	26.128	0.521
160	14.291	35.030	26.149	0.540
170	14.194	35.026	26.167	0.559
180	14.018	35.011	26.192	0.578
190	13.788	34.995	26.229	0.596
200	13.676	34.985	26.244	0.614
250	12.898	34.923	26.354	0.704
300	12.371	34.895	26.436	0.789
350	11.525	34.845	26.559	0.869
400	10.383	34.770	26.707	0.944
450	9.107	34.700	26.866	1.010
500	8.228	34.653	26.967	1.072
550	7.594	34.623	27.038	1.129
600	7.143	34.603	27.086	1.183
650	6.601	34.578	27.141	1.235
700	6.103	34.572	27.201	1.284
750	5.765	34.568	27.241	1.331
800	5.379	34.558	27.281	1.376
900	4.815	34.552	27.341	1.462
1000	4.404	34.560	27.393	1.543
1003	4.389	34.560	27.395	1.545



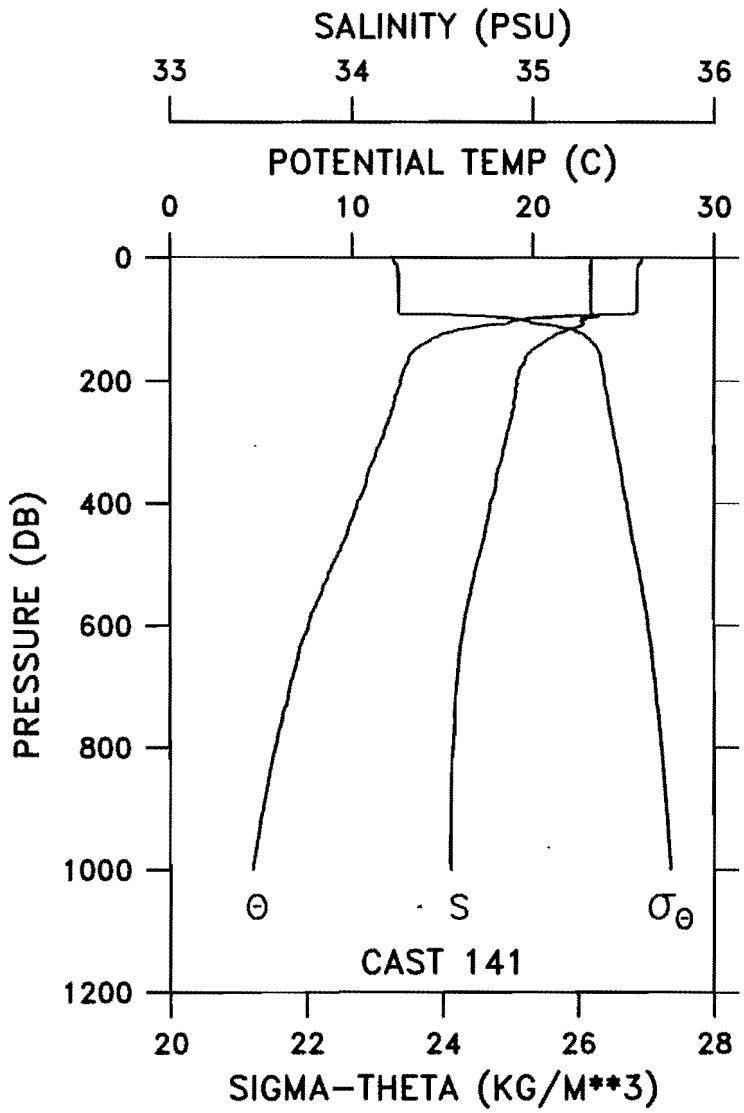
CAST GP5-97-KA-0121 DATE 10 AUG 97 TIME 0835 GMT
LAT 03 59.8S LONG 95 11.5W WEATHER 0 SEA STATE 3
BAROMETER 11 WIND DIR 161 T SPD 12 KT VISIBILITY 7
CLOUD AMOUNT 0 DRY 24.6 WET 22.0 DEPTH 3047 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.307	35.147	23.050	0.000
10	26.309	35.147	23.049	0.048
20	26.305	35.147	23.051	0.096
30	26.276	35.145	23.058	0.144
40	26.260	35.144	23.063	0.193
50	26.255	35.145	23.065	0.241
60	26.243	35.147	23.071	0.289
70	23.262	35.399	24.162	0.334
80	20.913	35.403	24.826	0.369
90	18.444	35.235	25.343	0.398
100	16.564	35.076	25.676	0.422
110	15.646	35.076	25.887	0.445
120	14.654	35.062	26.096	0.465
130	14.511	35.048	26.116	0.484
140	14.215	35.027	26.163	0.503
150	13.956	35.009	26.204	0.522
160	13.809	34.995	26.224	0.540
170	13.623	34.979	26.250	0.559
180	13.428	34.961	26.276	0.576
190	13.316	34.952	26.292	0.594
200	13.250	34.946	26.301	0.612
250	12.718	34.912	26.382	0.699
300	12.357	34.891	26.436	0.783
350	11.636	34.851	26.543	0.865
400	10.816	34.801	26.654	0.940
450	9.762	34.736	26.787	1.011
500	8.652	34.675	26.919	1.076
550	7.863	34.632	27.005	1.135
600	7.180	34.600	27.079	1.190
650	6.716	34.585	27.131	1.243
700	6.197	34.573	27.190	1.293
750	5.679	34.563	27.248	1.340
800	5.287	34.560	27.293	1.385
900	4.631	34.554	27.364	1.468
1000	4.192	34.560	27.416	1.546
1002	4.183	34.559	27.416	1.548



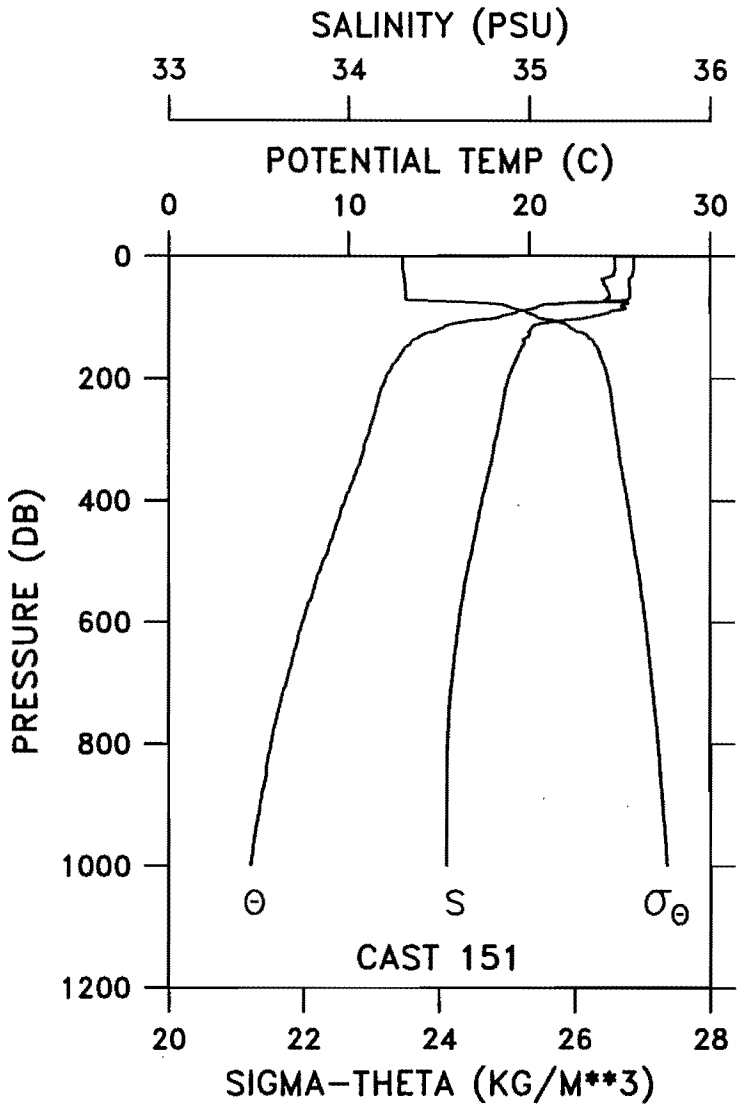
CAST GP5-97-KA-0131 DATE 10 AUG 97 TIME 1600 GMT
LAT 04 59.5S LONG 95 09.0W WEATHER 1 SEA STATE 3
BAROMETER 14 WIND DIR 100 T SPD 06 KT VISIBILITY 7
CLOUD 3 AMOUNT 1 DRY 27.0 WET 22.6 DEPTH 3815 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.073	35.152	23.127	0.000
10	26.047	35.151	23.134	0.047
20	26.044	35.152	23.136	0.095
30	26.043	35.153	23.137	0.142
40	26.040	35.153	23.138	0.189
50	26.039	35.153	23.139	0.237
60	26.039	35.154	23.139	0.284
70	26.037	35.156	23.142	0.332
80	26.036	35.162	23.146	0.379
90	25.134	35.335	23.556	0.426
100	18.965	35.152	25.147	0.462
110	16.635	35.078	25.661	0.488
120	15.309	35.064	25.953	0.510
130	14.336	35.031	26.140	0.530
140	14.080	35.014	26.182	0.549
150	13.750	34.990	26.233	0.567
160	13.575	34.975	26.257	0.585
170	13.415	34.962	26.280	0.603
180	13.305	34.951	26.294	0.621
190	13.227	34.944	26.304	0.638
200	13.121	34.936	26.320	0.656
250	12.655	34.905	26.388	0.742
300	12.207	34.881	26.457	0.826
350	11.470	34.842	26.567	0.906
400	10.703	34.793	26.668	0.981
450	9.823	34.739	26.778	1.052
500	8.816	34.681	26.898	1.117
550	7.907	34.635	27.001	1.177
600	7.390	34.609	27.056	1.233
650	6.833	34.589	27.118	1.286
700	6.414	34.580	27.167	1.337
750	6.000	34.570	27.213	1.386
800	5.647	34.563	27.252	1.433
900	5.018	34.556	27.321	1.521
1000	4.497	34.559	27.382	1.604
1004	4.486	34.559	27.384	1.607



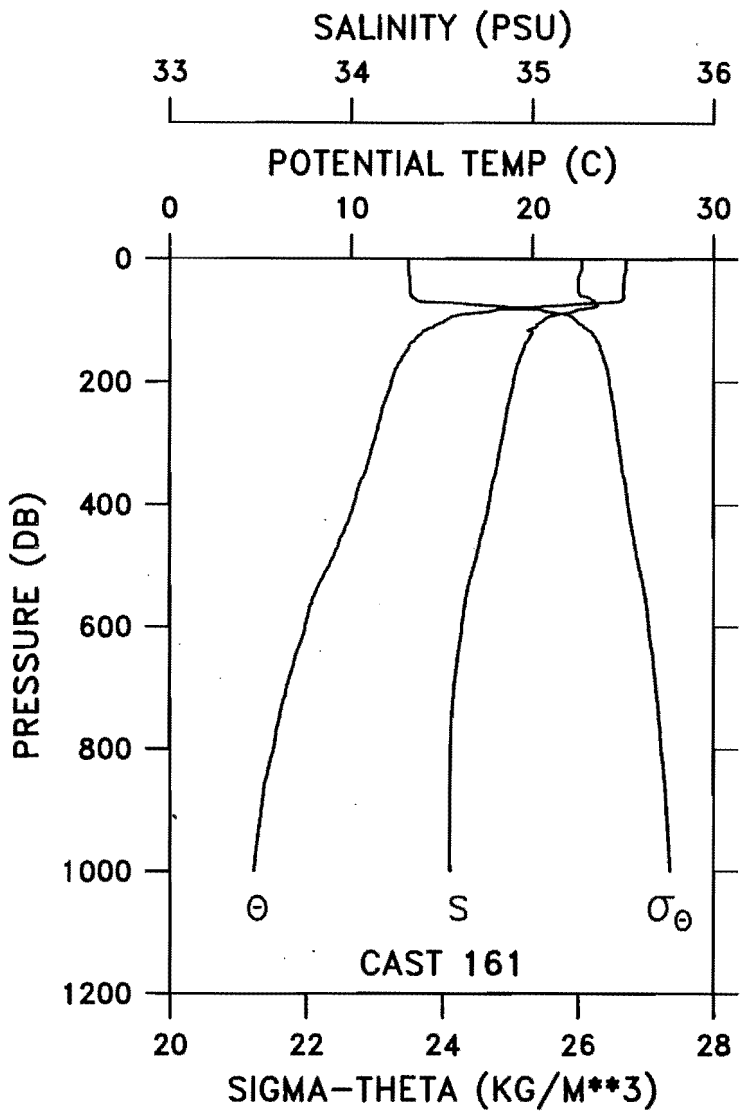
CAST GP5-97-KA-0141 DATE 10 AUG 97 TIME 2300 GMT
LAT 06 00.0S LONG 95 06.1W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 115 T SPD 08 KT VISIBILITY 7
CLOUD 3 AMOUNT 1 DRY 25.8 WET 21.3 DEPTH 3888 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.016	35.327	23.277	0.000
10	25.882	35.320	23.314	0.046
20	25.805	35.320	23.337	0.091
30	25.789	35.320	23.343	0.137
40	25.778	35.320	23.346	0.182
50	25.772	35.320	23.348	0.228
60	25.769	35.321	23.349	0.273
70	25.769	35.322	23.350	0.319
80	25.768	35.323	23.351	0.364
90	25.686	35.324	23.377	0.410
100	19.476	35.290	25.121	0.445
110	17.330	35.272	25.645	0.472
120	15.578	35.175	25.979	0.494
130	14.525	35.096	26.150	0.513
140	13.953	35.047	26.234	0.532
150	13.441	34.996	26.301	0.549
160	13.143	34.963	26.336	0.567
170	13.066	34.953	26.344	0.584
180	12.873	34.929	26.364	0.601
190	12.754	34.920	26.381	0.618
200	12.656	34.911	26.393	0.635
250	12.150	34.886	26.472	0.717
300	11.549	34.847	26.556	0.797
350	10.906	34.801	26.638	0.872
400	10.259	34.763	26.723	0.944
450	9.740	34.734	26.789	1.013
500	8.910	34.686	26.887	1.078
550	8.263	34.650	26.960	1.140
600	7.581	34.617	27.035	1.197
650	7.029	34.592	27.094	1.252
700	6.554	34.576	27.145	1.304
750	6.163	34.566	27.189	1.354
800	5.773	34.557	27.231	1.402
900	5.108	34.546	27.303	1.493
1000	4.537	34.547	27.368	1.577
1004	4.513	34.546	27.371	1.580



CAST GP5-97-KA-0151 DATE 11 AUG 97 TIME 0554 GMT
LAT 06 59.8S LONG 95 06.1W WEATHER 1 SEA STATE 3
BAROMETER 14 WIND DIR 168 T SPD 10 KT VISIBILITY 7
CLOUD 3 AMOUNT 2 DRY 24.4 WET 21.1 DEPTH 3846 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.775	35.474	23.463	0.000
10	25.772	35.472	23.463	0.044
20	25.777	35.473	23.462	0.088
30	25.709	35.465	23.476	0.133
40	25.525	35.408	23.491	0.177
50	25.534	35.422	23.499	0.221
60	25.559	35.439	23.504	0.265
70	25.506	35.423	23.507	0.309
80	20.703	35.509	24.964	0.346
90	19.351	35.448	25.275	0.374
100	18.288	35.326	25.452	0.401
110	15.802	35.067	25.845	0.424
120	14.923	35.005	25.993	0.445
130	13.970	34.996	26.191	0.465
140	13.446	34.969	26.279	0.483
150	13.086	34.954	26.340	0.500
160	12.877	34.939	26.371	0.518
170	12.651	34.925	26.405	0.534
180	12.379	34.909	26.445	0.551
190	12.190	34.895	26.472	0.567
200	12.042	34.884	26.491	0.583
250	11.502	34.847	26.564	0.660
300	10.962	34.811	26.636	0.735
350	10.444	34.777	26.702	0.808
400	9.814	34.738	26.779	0.877
450	9.237	34.703	26.848	0.942
500	8.576	34.667	26.925	1.005
550	8.019	34.637	26.986	1.065
600	7.439	34.610	27.050	1.122
650	6.958	34.588	27.101	1.176
700	6.532	34.570	27.144	1.228
750	6.061	34.556	27.194	1.278
800	5.680	34.548	27.236	1.325
900	5.083	34.543	27.303	1.416
1000	4.562	34.547	27.366	1.500
1003	4.545	34.547	27.367	1.502

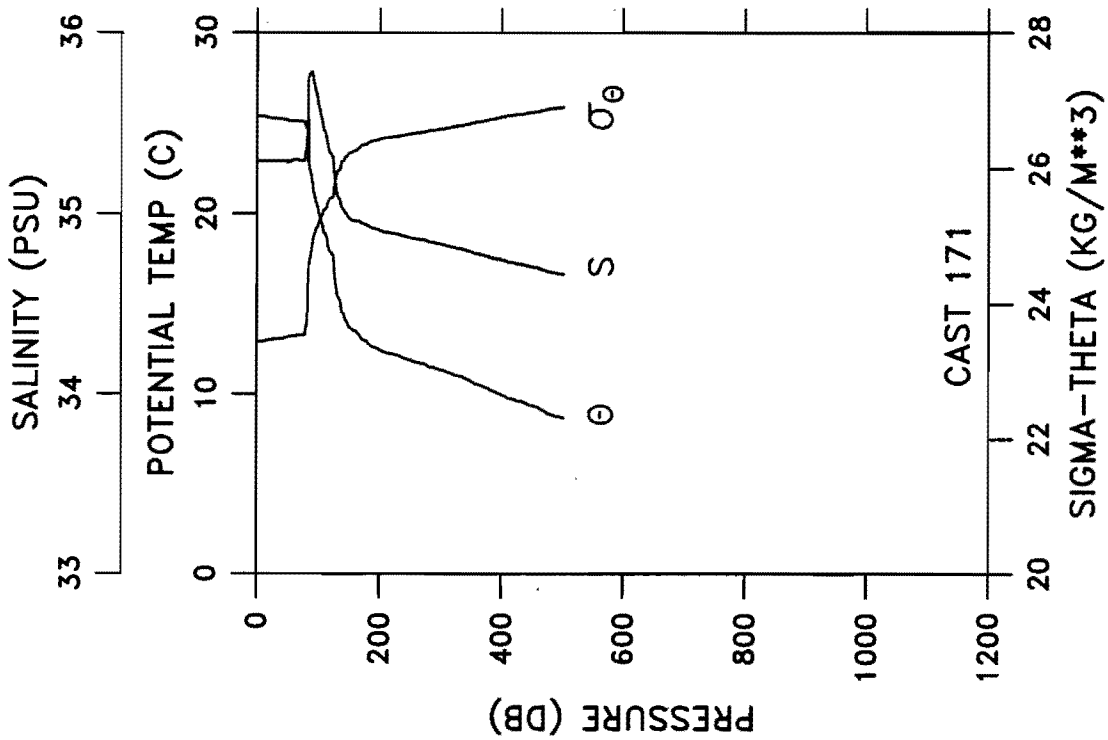


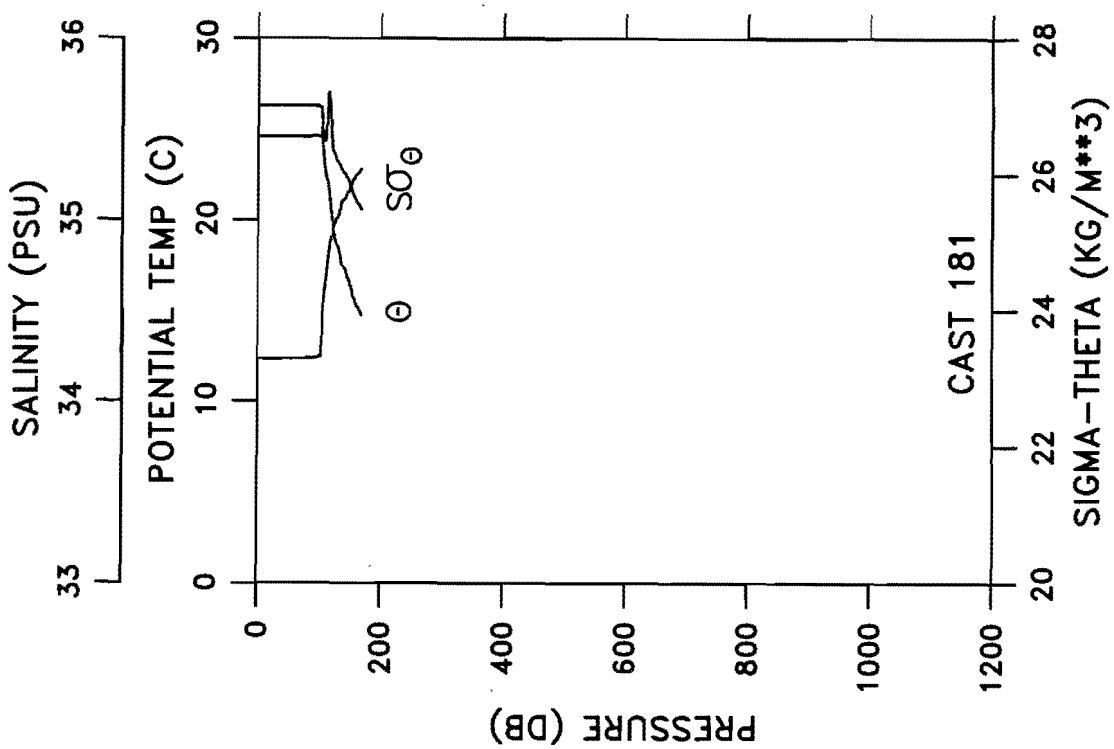
CAST GP5-97-KA-0161 DATE 12 AUG 97 TIME 0400 GMT
LAT 08 00.3S LONG 95 07.1W WEATHER 1 SEA STATE 3
BAROMETER 13 WIND DIR 144 T SPD 12 KT VISIBILITY 7
CLOUD 3 AMOUNT 2 DRY 24.4 WET 21.9 DEPTH 3943 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.160	35.271	23.499	0.000
10	25.167	35.274	23.499	0.044
20	25.114	35.264	23.508	0.088
30	25.036	35.252	23.523	0.131
40	25.028	35.252	23.525	0.175
50	25.020	35.253	23.528	0.219
60	25.020	35.274	23.544	0.263
70	24.432	35.331	23.765	0.306
80	19.128	35.298	25.217	0.339
90	16.075	35.130	25.831	0.364
100	15.158	35.055	25.980	0.385
110	14.559	35.019	26.084	0.405
120	13.871	34.996	26.212	0.424
130	13.542	34.977	26.265	0.442
140	13.191	34.954	26.320	0.460
150	13.018	34.943	26.346	0.477
160	12.800	34.929	26.379	0.494
170	12.562	34.915	26.415	0.511
180	12.404	34.905	26.438	0.527
190	12.308	34.899	26.452	0.543
200	12.203	34.892	26.467	0.559
250	11.649	34.855	26.544	0.638
300	11.213	34.825	26.601	0.715
350	10.712	34.793	26.666	0.788
400	10.133	34.757	26.740	0.859
450	9.487	34.717	26.817	0.927
500	8.793	34.677	26.899	0.991
550	7.945	34.633	26.994	1.051
600	7.465	34.608	27.045	1.108
650	6.891	34.585	27.107	1.162
700	6.413	34.565	27.156	1.213
750	6.003	34.554	27.200	1.263
800	5.691	34.546	27.233	1.310
900	5.009	34.542	27.312	1.400
1000	4.600	34.545	27.360	1.484
1004	4.581	34.545	27.362	1.487

CAST GP5-97-KA-0171 DATE 13 AUG 97 TIME 2019 GMT
LAT 08 02.0S LONG 102 17.7W WEATHER 1 SEA STATE 3
BAROMETER 13 WIND DIR 127 T SPD 13 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 25.0 WET 21.6 DEPTH 4138 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.385	35.289	23.444	0.000
10	25.377	35.292	23.448	0.044
20	25.299	35.291	23.472	0.089
30	25.262	35.290	23.482	0.133
40	25.236	35.291	23.491	0.177
50	25.153	35.285	23.511	0.221
60	25.135	35.299	23.528	0.265
70	25.099	35.295	23.536	0.308
80	24.784	35.356	23.678	0.352
90	21.833	35.783	24.862	0.388
100	20.176	35.610	25.182	0.417
110	18.931	35.460	25.391	0.444
120	17.867	35.332	25.560	0.469
130	15.611	35.113	25.924	0.493
140	14.465	35.025	26.108	0.513
150	13.738	34.975	26.223	0.532
160	13.516	34.959	26.257	0.550
170	13.085	34.949	26.337	0.568
180	12.877	34.935	26.368	0.585
190	12.617	34.920	26.408	0.601
200	12.446	34.908	26.432	0.618
250	11.882	34.868	26.510	0.699
300	11.338	34.833	26.584	0.776
350	10.712	34.792	26.665	0.851
400	9.967	34.746	26.760	0.921
450	9.358	34.707	26.831	0.988
500	8.712	34.668	26.904	1.051
502	8.674	34.666	26.909	1.054



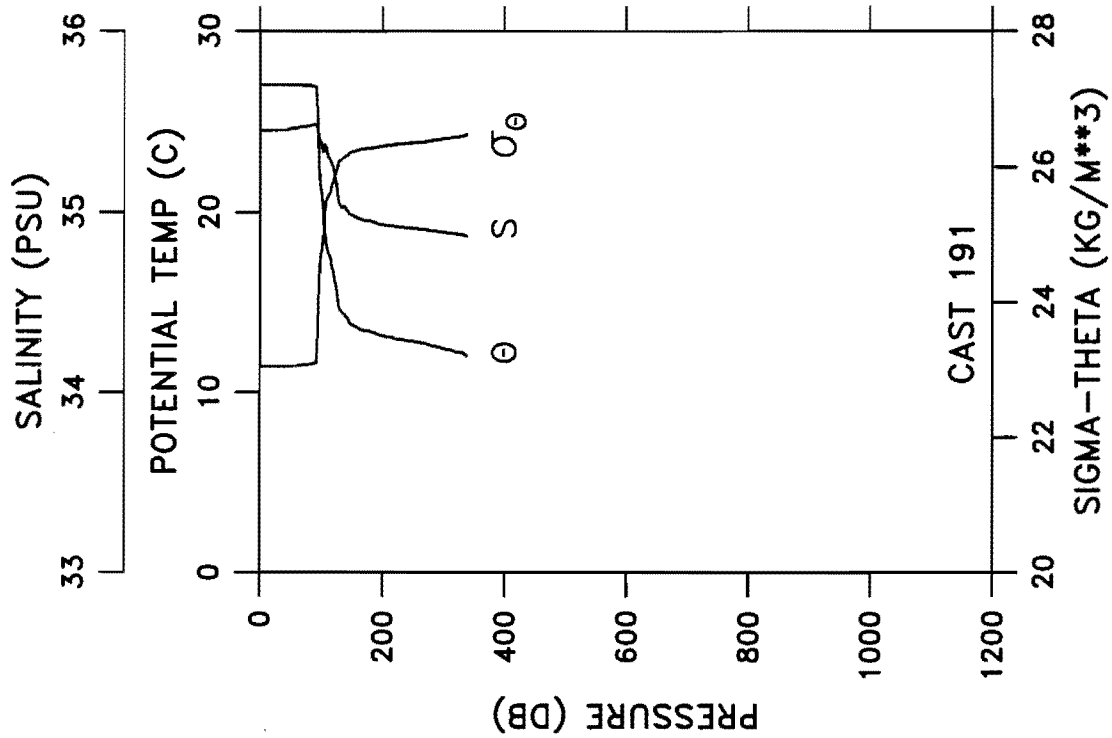


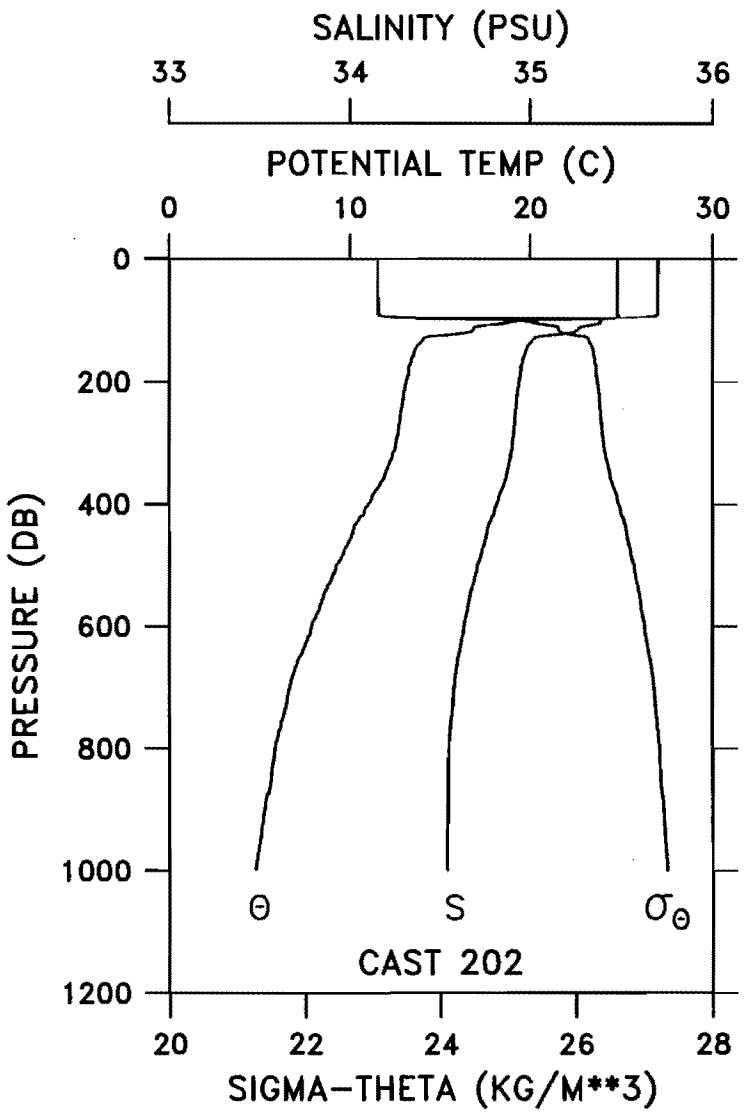
CAST GP5-97-KA-0181 DATE 16 AUG 97 TIME 0358 GMT
LAT 08 01.5S LONG 109 54.9W WEATHER 1 SEA STATE 3
BAROMETER 12 WIND DIR 103 T SPD 17 KT VISIBILITY 7
CLOUD AMOUNT DRY 25.0 WET 21.4 DEPTH 3500 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.289	35.457	23.289	0.000
10	26.292	35.455	23.287	0.046
20	26.299	35.458	23.287	0.092
30	26.301	35.459	23.288	0.138
40	26.296	35.460	23.290	0.184
50	26.301	35.460	23.288	0.230
60	26.293	35.459	23.290	0.276
70	26.280	35.456	23.292	0.322
80	26.270	35.455	23.294	0.368
90	26.274	35.462	23.298	0.414
100	26.195	35.458	23.320	0.460
110	22.562	35.437	24.392	0.501
120	20.133	35.477	25.092	0.533
130	18.547	35.318	25.381	0.561
140	17.342	35.259	25.632	0.586
150	16.382	35.190	25.806	0.609
160	15.234	35.098	25.997	0.630
168	14.710	35.058	26.081	0.646

CAST GP5-97-KA-0191 DATE 17 AUG 97 TIME 0342 GMT
LAT 04 58.0S LONG 110 03.8W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 111 T SPD 18 KT VISIBILITY 7
CLOUD AMOUNT DRY 25.7 WET 22.4 DEPTH 3458 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.040	35.455	23.050	0.000
10	27.033	35.455	23.052	0.048
20	27.037	35.454	23.050	0.096
30	27.040	35.456	23.051	0.144
40	27.040	35.457	23.051	0.193
50	27.029	35.465	23.061	0.241
60	27.028	35.466	23.062	0.289
70	27.015	35.476	23.074	0.337
80	26.998	35.479	23.081	0.385
90	26.936	35.487	23.107	0.434
100	21.237	35.391	24.728	0.475
110	17.948	35.329	25.538	0.503
120	16.641	35.245	25.788	0.526
130	14.573	35.044	26.100	0.547
140	14.215	35.019	26.157	0.567
150	13.761	34.986	26.227	0.585
160	13.571	34.966	26.251	0.603
170	13.423	34.954	26.272	0.621
180	13.368	34.950	26.280	0.639
190	13.250	34.940	26.297	0.657
200	13.147	34.932	26.311	0.675
250	12.825	34.912	26.360	0.762
300	12.421	34.889	26.422	0.847
338	12.012	34.868	26.485	0.910



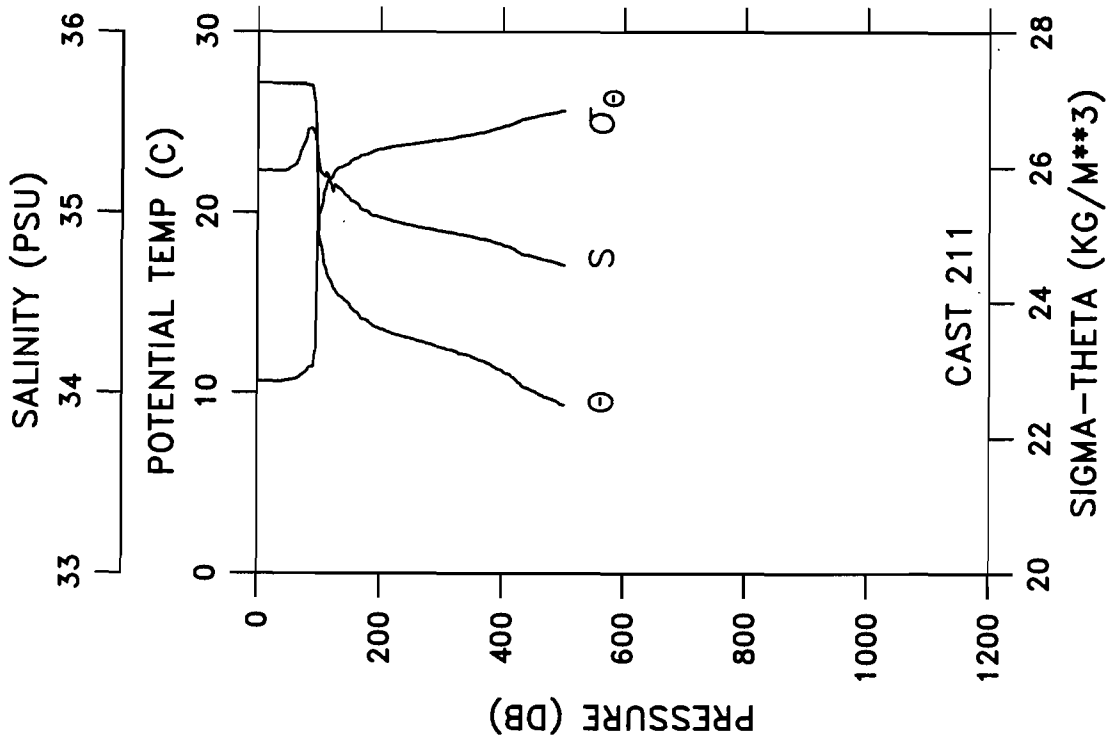


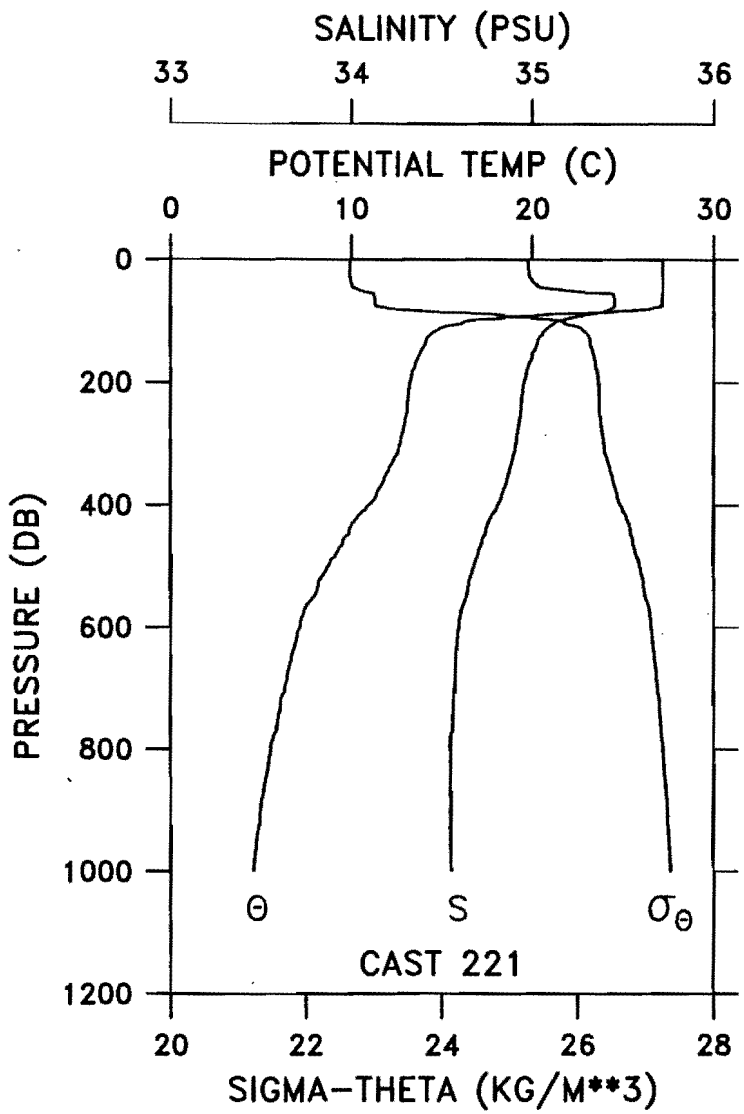
CAST GP5-97-KA-0202 DATE 17 AUG 97 TIME 1829 GMT
LAT 04 57.4S LONG 110 00.3W WEATHER 2 SEA STATE 3
BAROMETER 12 WIND DIR 092 T SPD 14 KT VISIBILITY 7
CLOUD 7 AMOUNT 6 DRY 26.6 WET 23.4 DEPTH 3470 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.008	35.477	23.076	0.000
10	27.007	35.477	23.077	0.048
20	27.005	35.478	23.078	0.096
30	26.999	35.478	23.080	0.144
40	26.993	35.478	23.082	0.192
50	26.989	35.478	23.083	0.240
60	26.987	35.478	23.084	0.288
70	26.985	35.478	23.085	0.336
80	26.983	35.479	23.086	0.384
90	26.953	35.481	23.097	0.432
100	19.721	35.386	25.131	0.474
110	17.002	35.286	25.734	0.499
120	16.446	35.219	25.814	0.522
130	14.092	35.018	26.183	0.542
140	13.765	34.989	26.228	0.561
150	13.580	34.973	26.254	0.579
160	13.475	34.963	26.269	0.597
170	13.366	34.954	26.284	0.614
180	13.264	34.946	26.298	0.632
190	13.243	34.944	26.301	0.650
200	13.133	34.936	26.317	0.667
250	12.823	34.915	26.363	0.754
300	12.549	34.899	26.405	0.840
350	11.966	34.868	26.493	0.923
400	11.012	34.812	26.628	1.001
450	10.088	34.756	26.747	1.073
500	9.237	34.707	26.851	1.141
550	8.507	34.663	26.933	1.204
600	7.861	34.631	27.005	1.263
650	7.192	34.599	27.077	1.320
700	6.634	34.577	27.136	1.372
750	6.238	34.562	27.176	1.423
800	5.792	34.551	27.224	1.472
900	5.246	34.541	27.282	1.564
1000	4.731	34.541	27.342	1.651
1004	4.692	34.541	27.347	1.654

CAST GP5-97-KA-0211 DATE 18 AUG 97 TIME 0201 GMT
LAT 03 59.8S LONG 110 01.3W WEATHER 2 SEA STATE 4
BAROMETER 09 WIND DIR 122 T SPD 17 KT VISIBILITY 7
CLOUD 7 AMOUNT 6 DRY 26.6 WET 23.1 DEPTH 3667 M

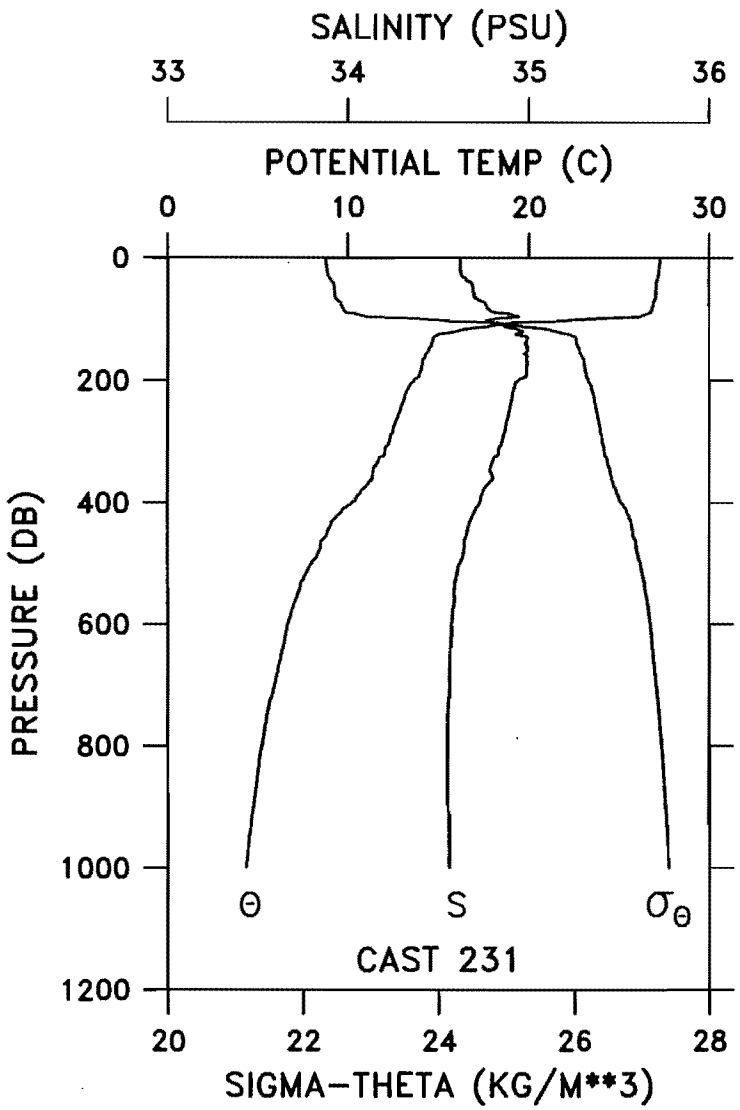
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.198	35.235	22.834	0.000
10	27.198	35.231	22.830	0.050
20	27.198	35.231	22.831	0.100
30	27.185	35.232	22.835	0.151
40	27.170	35.233	22.841	0.201
50	27.142	35.239	22.854	0.251
60	27.148	35.262	22.870	0.301
70	27.151	35.335	22.924	0.351
80	27.114	35.414	22.995	0.401
90	27.036	35.466	23.059	0.449
100	18.760	35.279	25.297	0.490
110	17.003	35.198	25.667	0.515
120	16.137	35.155	25.836	0.538
130	15.465	35.142	25.979	0.559
140	15.190	35.110	26.016	0.579
150	14.861	35.076	26.062	0.600
160	14.445	35.051	26.133	0.619
170	14.074	35.013	26.183	0.638
180	13.948	35.002	26.200	0.657
190	13.642	34.978	26.246	0.675
200	13.506	34.971	26.268	0.693
250	12.987	34.928	26.340	0.782
300	12.499	34.896	26.412	0.868
350	11.972	34.866	26.491	0.951
400	11.221	34.823	26.598	1.030
450	10.115	34.756	26.742	1.102
500	9.314	34.708	26.839	1.170
502	9.314	34.706	26.837	1.173





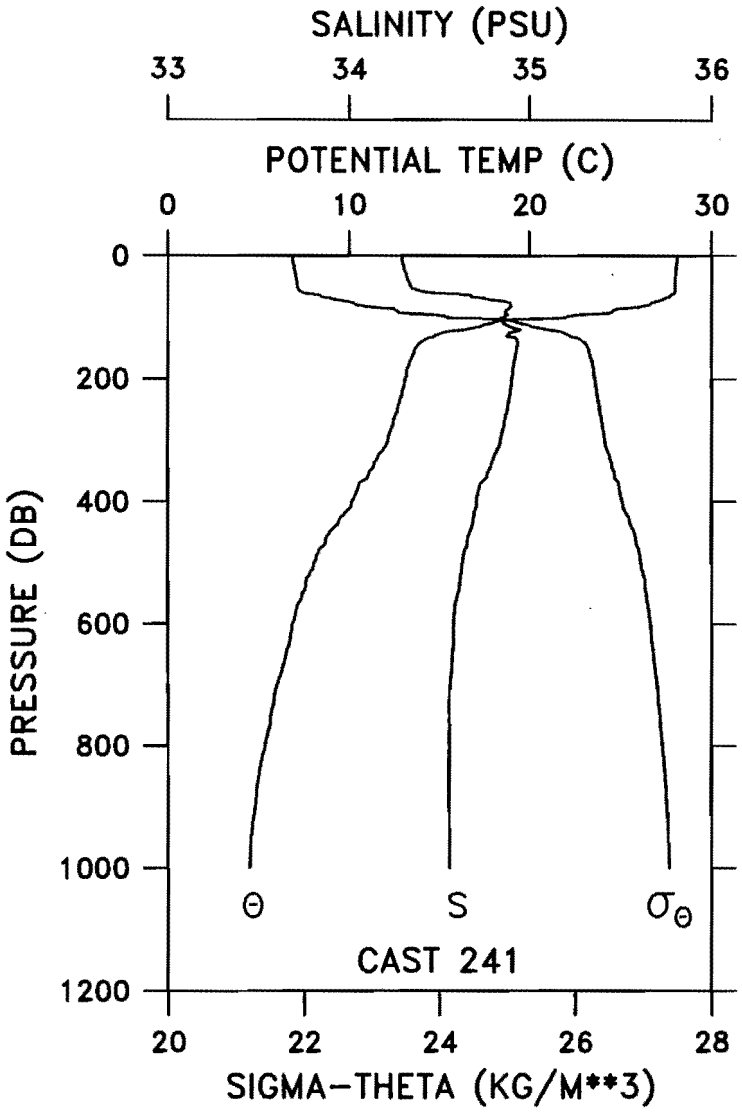
CAST GP5-97-KA-0221 DATE 18 AUG 97 TIME 0952 GMT
LAT 02 59.7S LONG 110 03.1W WEATHER 2 SEA STATE 4
BAROMETER 09 WIND DIR 135 T SPD 17 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 26.4 WET 24.0 DEPTH 3758 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.180	34.975	22.644	0.000
10	27.185	34.977	22.644	0.052
20	27.190	34.982	22.645	0.104
30	27.196	34.991	22.650	0.156
40	27.204	35.025	22.673	0.208
50	27.200	35.187	22.796	0.260
60	27.163	35.449	23.006	0.309
70	27.129	35.452	23.019	0.358
80	26.432	35.430	23.225	0.406
90	20.384	35.281	24.875	0.445
100	16.339	35.134	25.774	0.472
110	15.051	35.088	26.029	0.493
120	14.451	35.059	26.138	0.513
130	14.149	35.032	26.181	0.531
140	14.049	35.022	26.195	0.550
150	13.841	35.004	26.224	0.568
160	13.705	34.998	26.248	0.587
170	13.550	34.981	26.267	0.605
180	13.384	34.968	26.291	0.622
190	13.334	34.966	26.299	0.640
200	13.246	34.955	26.309	0.658
250	13.079	34.936	26.328	0.746
300	12.701	34.909	26.383	0.833
350	11.941	34.868	26.498	0.916
400	10.965	34.809	26.633	0.995
450	9.750	34.734	26.787	1.065
500	8.714	34.676	26.910	1.130
550	7.964	34.636	26.993	1.189
600	7.157	34.595	27.078	1.244
650	6.683	34.578	27.130	1.297
700	6.305	34.571	27.174	1.347
750	5.927	34.562	27.216	1.396
800	5.537	34.550	27.255	1.442
900	4.964	34.550	27.323	1.530
1000	4.581	34.554	27.370	1.614
1005	4.580	34.558	27.372	1.618



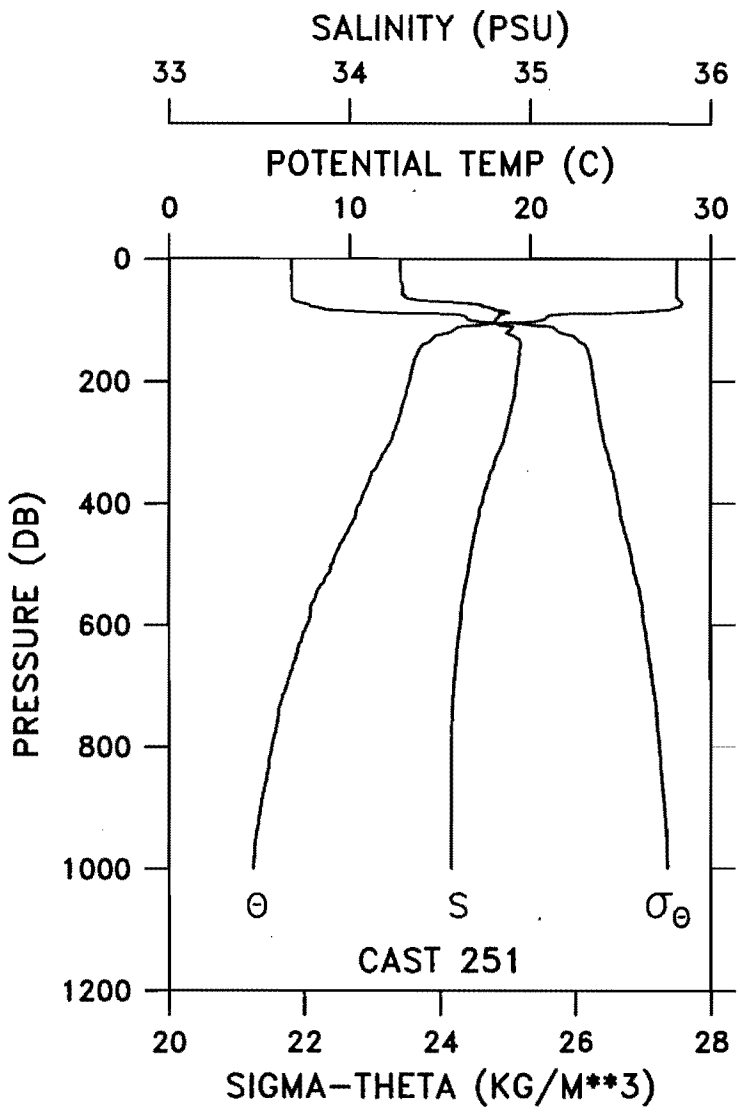
CAST GP5-97-KA-0231 DATE 20 AUG 97 TIME 1838 GMT
LAT 01 58.7N LONG 110 47.5W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 149 T SPD 12 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 29.0 WET 26.5 DEPTH 3743 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.282	34.624	22.346	0.000
10	27.262	34.622	22.351	0.055
20	27.223	34.623	22.365	0.110
30	27.177	34.636	22.389	0.164
40	27.072	34.683	22.458	0.219
50	27.057	34.692	22.470	0.272
60	27.042	34.697	22.479	0.326
70	26.954	34.729	22.530	0.380
80	26.859	34.768	22.590	0.433
90	26.702	34.829	22.686	0.486
100	23.055	34.803	23.770	0.534
110	18.136	34.864	25.135	0.568
120	16.002	34.965	25.721	0.594
130	14.731	34.992	26.025	0.615
140	14.628	34.978	26.037	0.635
150	14.497	34.994	26.078	0.655
160	14.289	34.988	26.118	0.675
170	14.135	34.988	26.150	0.694
180	14.080	34.987	26.161	0.713
190	13.978	34.986	26.182	0.732
200	13.675	34.943	26.211	0.751
250	12.891	34.892	26.332	0.840
300	12.303	34.853	26.417	0.926
350	11.394	34.787	26.538	1.008
400	10.264	34.728	26.694	1.083
450	8.852	34.658	26.874	1.149
500	7.974	34.619	26.979	1.210
550	7.215	34.586	27.063	1.266
600	6.632	34.571	27.131	1.318
650	6.283	34.567	27.174	1.368
700	5.908	34.564	27.220	1.416
750	5.480	34.551	27.263	1.462
800	5.199	34.552	27.297	1.506
900	4.738	34.555	27.352	1.591
1000	4.345	34.561	27.401	1.670
1003	4.334	34.561	27.402	1.672



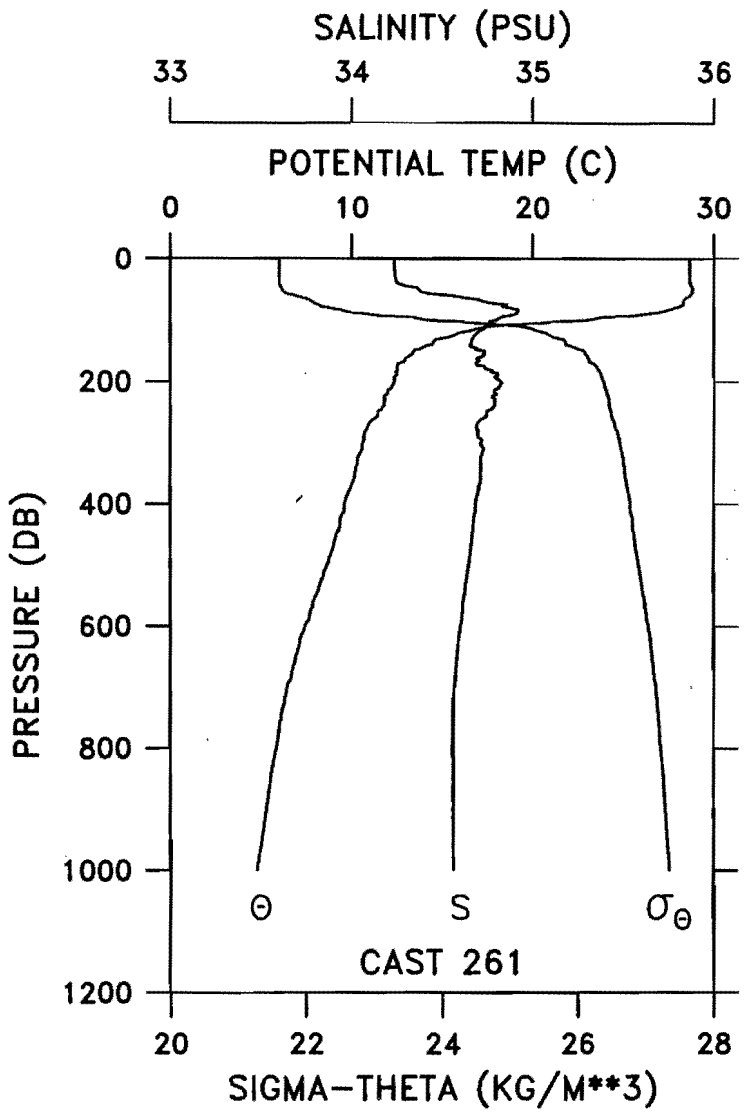
CAST GP5-97-KA-0241 DATE 21 AUG 97 TIME 0338 GMT
LAT 03 00.3N LONG 110 29.9W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 162 T SPD 10 KT VISIBILITY 7
CLOUD AMOUNT DRY 27.6 WET 25.6 DEPTH 3910 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.115	34.295	21.829	0.000
10	28.098	34.297	21.836	0.060
20	28.052	34.304	21.857	0.119
30	28.022	34.318	21.877	0.179
40	28.005	34.326	21.889	0.238
50	27.997	34.343	21.904	0.298
60	27.985	34.457	21.993	0.357
70	27.352	34.758	22.425	0.413
80	26.553	34.896	22.783	0.465
90	24.561	34.868	23.376	0.513
100	22.000	34.858	24.111	0.555
110	17.842	34.857	25.202	0.586
120	16.424	34.949	25.611	0.612
130	14.760	34.873	25.927	0.635
140	14.015	34.935	26.134	0.654
150	13.672	34.929	26.201	0.673
160	13.555	34.923	26.221	0.692
170	13.405	34.917	26.247	0.710
180	13.288	34.911	26.267	0.728
190	13.197	34.906	26.281	0.746
200	13.104	34.902	26.297	0.764
250	12.688	34.878	26.361	0.851
300	12.138	34.840	26.439	0.936
350	11.152	34.773	26.571	1.016
400	10.150	34.705	26.696	1.090
450	8.938	34.670	26.870	1.158
500	8.068	34.628	26.972	1.219
550	7.414	34.602	27.048	1.275
600	6.851	34.580	27.109	1.329
650	6.494	34.573	27.151	1.380
700	6.010	34.561	27.205	1.429
750	5.638	34.558	27.249	1.476
800	5.335	34.556	27.284	1.521
900	4.787	34.554	27.346	1.606
1000	4.469	34.560	27.386	1.686
1004	4.465	34.560	27.386	1.690



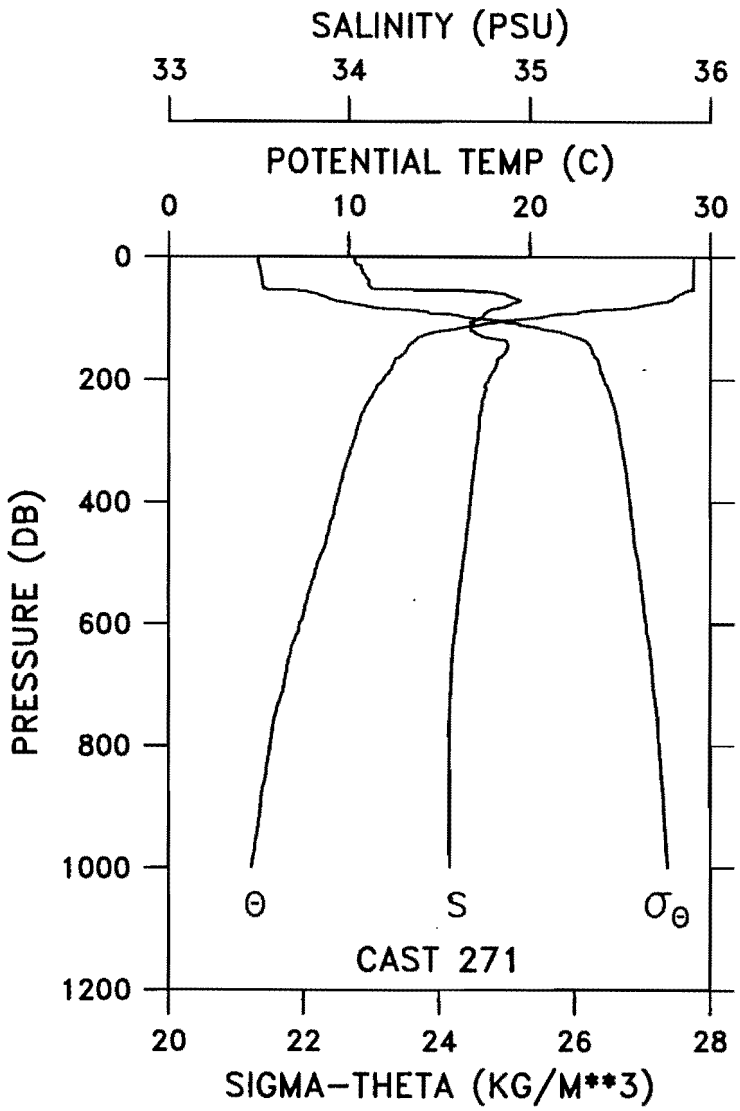
CAST GP5-97-KA-0251 DATE 21 AUG 97 TIME 1017 GMT
LAT 04 00.6N LONG 110 14.4W WEATHER 1 SEA STATE 4
BAROMETER 09 WIND DIR 174 T SPD 12 KT VISIBILITY 7
CLOUD AMOUNT 5 DRY 27.6 WET 24.5 DEPTH 3931 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.128	34.283	21.816	0.000
10	28.121	34.280	21.816	0.060
20	28.120	34.280	21.817	0.120
30	28.132	34.285	21.816	0.180
40	28.140	34.289	21.817	0.240
50	28.141	34.291	21.818	0.300
60	28.173	34.309	21.821	0.360
70	28.372	34.497	21.897	0.420
80	27.983	34.777	22.235	0.478
90	22.022	34.852	24.101	0.529
100	20.630	34.805	24.447	0.565
110	16.270	34.886	25.599	0.595
120	15.545	34.870	25.751	0.618
130	14.563	34.933	26.016	0.640
140	14.067	34.948	26.133	0.659
150	13.806	34.938	26.181	0.678
160	13.649	34.935	26.211	0.697
170	13.564	34.934	26.228	0.715
180	13.453	34.926	26.244	0.733
190	13.374	34.921	26.256	0.751
200	13.311	34.919	26.268	0.770
250	12.827	34.889	26.342	0.858
300	12.240	34.848	26.426	0.943
350	11.219	34.777	26.562	1.024
400	10.570	34.732	26.644	1.100
450	9.829	34.692	26.741	1.172
500	9.036	34.661	26.848	1.239
550	8.156	34.630	26.960	1.302
600	7.652	34.611	27.020	1.360
650	7.057	34.592	27.090	1.415
700	6.522	34.578	27.151	1.467
750	6.062	34.568	27.204	1.516
800	5.710	34.565	27.245	1.564
900	5.064	34.561	27.320	1.653
1000	4.662	34.564	27.368	1.736
1005	4.618	34.564	27.373	1.740



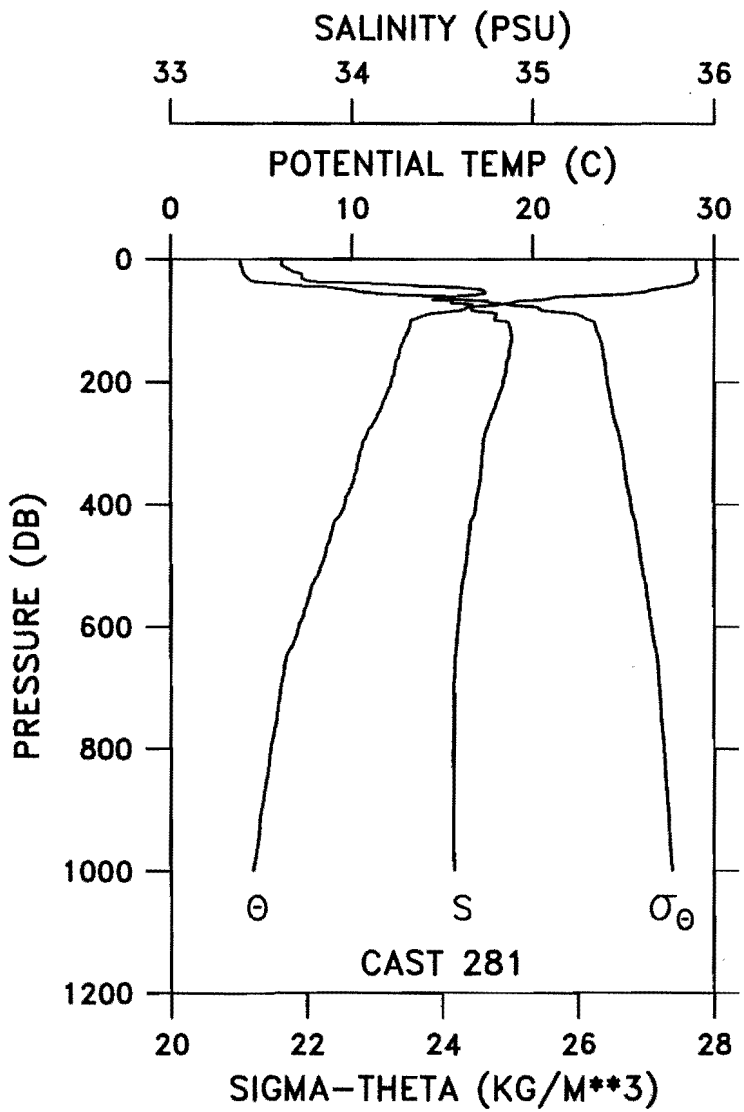
CAST GP5-97-KA-0261 DATE 21 AUG 97 TIME 1738 GMT
LAT 05 02.1N LONG 109 57.4W WEATHER 2 SEA STATE 4
BAROMETER 12 WIND DIR 130 T SPD 04 KT VISIBILITY 7
CLOUD 6 AMOUNT 8 DRY 28.0 WET 25.7 DEPTH 4016 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.675	34.235	21.600	0.000
10	28.674	34.234	21.600	0.062
20	28.673	34.237	21.602	0.124
30	28.677	34.240	21.603	0.186
40	28.698	34.253	21.606	0.248
50	28.834	34.368	21.647	0.310
60	28.670	34.551	21.839	0.371
70	28.325	34.729	22.086	0.430
80	27.837	34.876	22.357	0.487
90	26.333	34.905	22.859	0.540
100	23.071	34.802	23.765	0.585
110	17.758	34.734	25.128	0.619
120	16.068	34.697	25.500	0.646
130	14.913	34.668	25.736	0.670
140	14.435	34.656	25.830	0.693
150	13.472	34.734	26.092	0.713
160	13.112	34.715	26.150	0.732
170	12.668	34.688	26.218	0.751
180	12.497	34.749	26.299	0.769
190	12.469	34.805	26.348	0.787
200	12.343	34.821	26.384	0.804
250	11.448	34.745	26.495	0.885
300	10.625	34.713	26.619	0.962
350	10.197	34.711	26.693	1.034
400	9.600	34.684	26.773	1.103
450	9.143	34.665	26.833	1.170
500	8.642	34.645	26.897	1.234
550	8.051	34.621	26.969	1.295
600	7.436	34.600	27.043	1.352
650	6.918	34.582	27.101	1.406
700	6.436	34.568	27.155	1.458
750	6.116	34.560	27.190	1.508
800	5.829	34.559	27.226	1.556
900	5.288	34.560	27.292	1.647
1000	4.773	34.563	27.355	1.733
1004	4.767	34.566	27.358	1.736



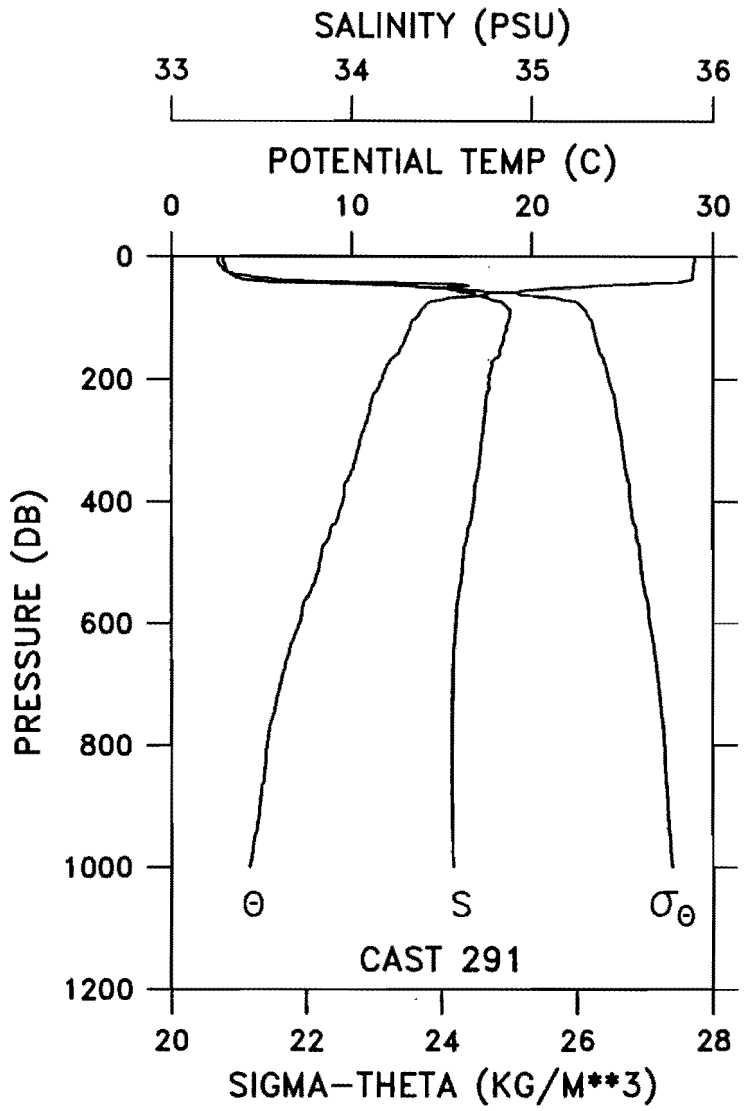
CAST GP5-97-KA-0271 DATE 22 AUG 97 TIME 0012 GMT
LAT 05 59.7N LONG 110 01.4W WEATHER 1 SEA STATE 4
BAROMETER 09 WIND DIR 144 T SPD 05 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 28.5 WET 26.0 DEPTH 3682 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.082	34.035	21.315	0.000
10	29.066	34.038	21.322	0.065
20	29.068	34.077	21.351	0.129
30	29.049	34.090	21.367	0.194
40	29.053	34.112	21.382	0.258
50	29.016	34.120	21.400	0.322
60	28.291	34.866	22.200	0.382
70	27.768	34.948	22.434	0.438
80	26.042	34.872	22.926	0.490
90	22.715	34.763	23.837	0.535
100	19.948	34.727	24.568	0.573
110	17.408	34.679	25.171	0.603
120	15.241	34.683	25.675	0.629
130	13.915	34.747	26.010	0.651
140	13.525	34.874	26.189	0.670
150	13.230	34.873	26.249	0.688
160	12.950	34.849	26.286	0.706
170	12.546	34.821	26.345	0.723
180	12.399	34.811	26.366	0.741
190	12.210	34.791	26.387	0.757
200	11.933	34.773	26.426	0.774
250	10.859	34.734	26.595	0.852
300	10.291	34.713	26.678	0.925
350	9.717	34.691	26.759	0.994
400	9.312	34.673	26.812	1.061
450	8.894	34.655	26.865	1.126
500	8.279	34.632	26.943	1.188
550	7.780	34.610	27.001	1.246
600	7.280	34.594	27.060	1.303
650	6.774	34.576	27.116	1.356
700	6.431	34.568	27.156	1.407
750	5.916	34.561	27.216	1.456
800	5.626	34.558	27.250	1.503
900	5.098	34.559	27.314	1.592
1000	4.603	34.563	27.374	1.676
1003	4.590	34.564	27.376	1.678



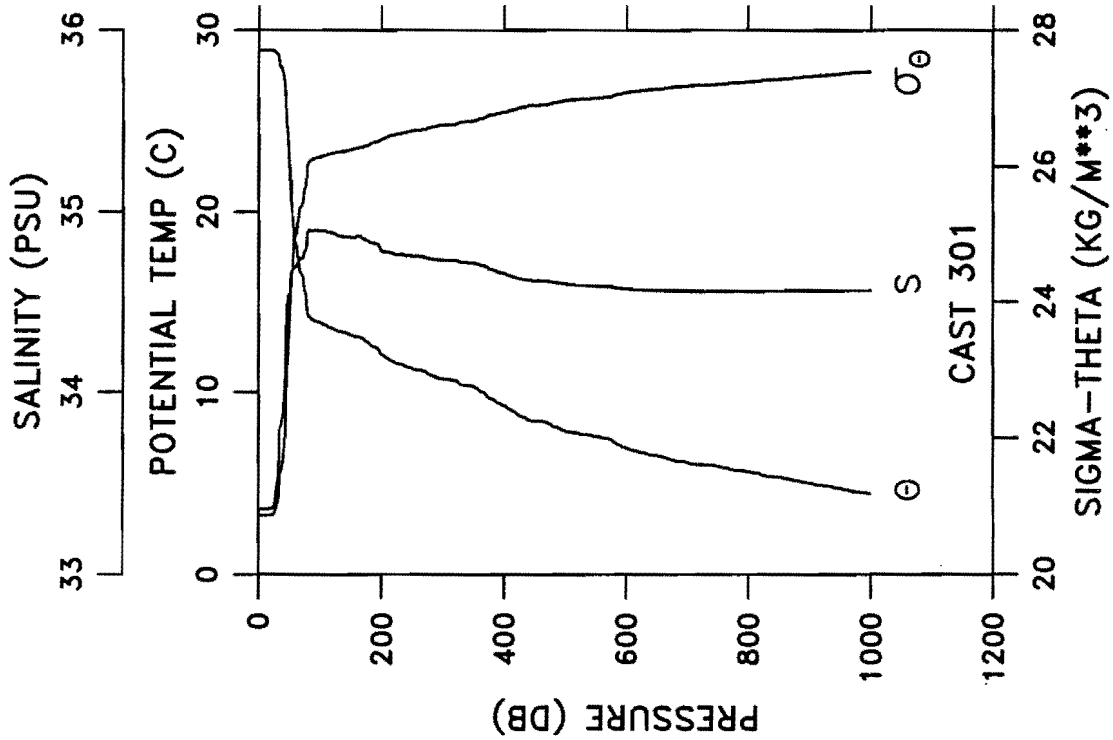
CAST GP5-97-KA-0281 DATE 22 AUG 97 TIME 0701 GMT
LAT 06 59.8N LONG 110 05.1W WEATHER 1 SEA STATE 4
BAROMETER 10 WIND DIR 086 T SPD 01 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 27.3 WET 25.0 DEPTH 3530 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.000	33.612	21.024	0.000
10	29.001	33.612	21.024	0.067
20	29.032	33.670	21.058	0.135
30	28.955	33.723	21.123	0.202
40	28.417	34.109	21.591	0.267
50	26.509	34.722	22.666	0.324
60	22.035	34.573	23.885	0.372
70	18.925	34.554	24.701	0.409
80	16.272	34.664	25.427	0.438
90	14.182	34.799	25.994	0.461
100	13.208	34.810	26.204	0.481
110	13.174	34.874	26.261	0.499
120	13.036	34.880	26.294	0.516
130	12.867	34.882	26.328	0.534
140	12.721	34.876	26.353	0.551
150	12.619	34.870	26.368	0.568
160	12.551	34.866	26.379	0.585
170	12.395	34.855	26.401	0.601
180	12.343	34.851	26.408	0.618
190	12.260	34.846	26.420	0.635
200	12.161	34.837	26.432	0.651
250	11.483	34.779	26.515	0.731
300	10.593	34.726	26.635	0.807
350	10.164	34.712	26.699	0.879
400	9.594	34.686	26.775	0.948
450	8.828	34.649	26.871	1.013
500	8.277	34.628	26.940	1.075
550	7.647	34.603	27.014	1.133
600	7.046	34.585	27.086	1.188
650	6.361	34.572	27.168	1.240
700	6.056	34.562	27.200	1.289
750	5.832	34.563	27.229	1.336
800	5.503	34.561	27.268	1.382
900	4.967	34.562	27.332	1.470
1000	4.524	34.566	27.385	1.552
1003	4.499	34.566	27.387	1.554



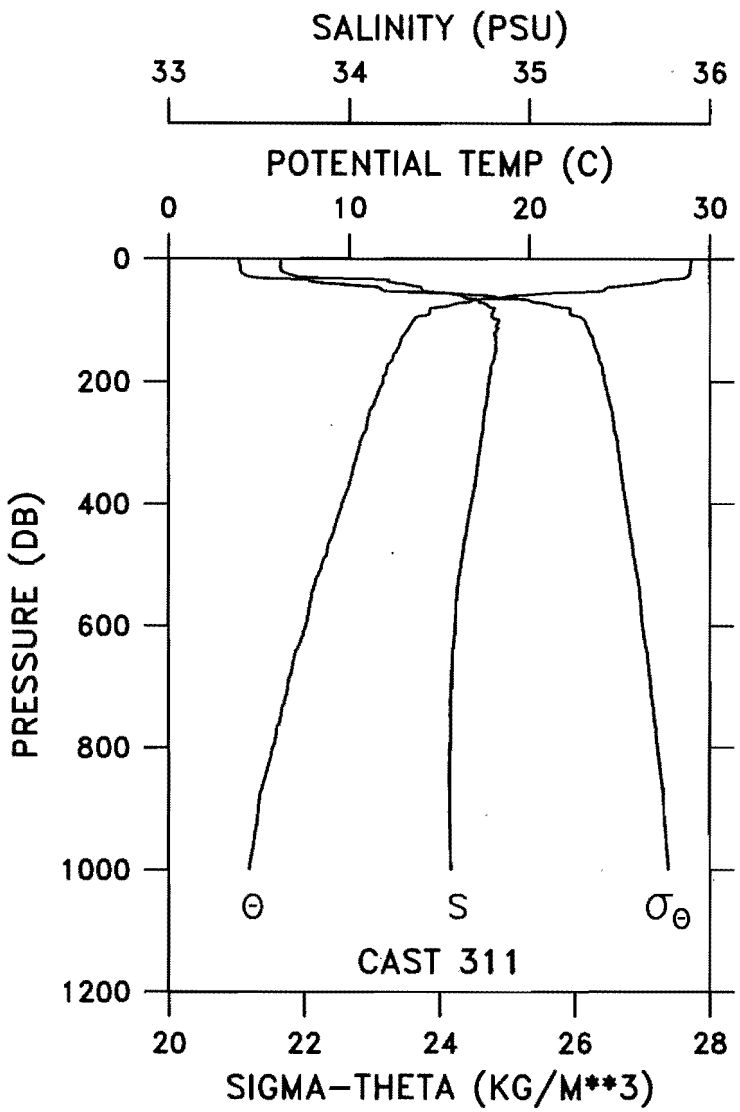
CAST GP5-97-KA-0291 DATE 23 AUG 97 TIME 0349 GMT
LAT 08 08.1N LONG 110 14.9W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 108 T SPD 04 KT VISIBILITY 7
CLOUD 1 AMOUNT 8 DRY 28.0 WET 26.0 DEPTH 4022 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.981	33.258	20.765	0.000
10	28.951	33.259	20.776	0.070
20	28.914	33.286	20.809	0.140
30	28.874	33.385	20.896	0.209
40	28.368	33.783	21.362	0.277
50	22.467	34.520	23.723	0.328
60	17.587	34.682	25.130	0.363
70	15.079	34.776	25.783	0.388
80	14.082	34.855	26.058	0.409
90	13.815	34.883	26.136	0.428
100	13.576	34.876	26.180	0.447
110	13.286	34.863	26.230	0.465
120	13.178	34.861	26.250	0.483
130	13.027	34.847	26.269	0.501
140	12.898	34.839	26.289	0.519
150	12.708	34.824	26.315	0.536
160	12.477	34.821	26.359	0.554
170	12.147	34.783	26.393	0.570
180	11.961	34.779	26.425	0.587
190	11.823	34.769	26.444	0.603
200	11.701	34.768	26.466	0.619
250	11.013	34.745	26.575	0.697
300	10.464	34.723	26.656	0.771
350	9.987	34.703	26.723	0.842
400	9.542	34.680	26.779	0.910
450	8.818	34.645	26.869	0.976
500	8.253	34.620	26.937	1.037
550	7.712	34.597	27.001	1.096
600	7.149	34.581	27.068	1.152
650	6.538	34.568	27.142	1.204
700	6.039	34.563	27.202	1.253
750	5.657	34.561	27.249	1.300
800	5.321	34.560	27.289	1.345
900	4.912	34.561	27.337	1.430
1000	4.343	34.569	27.407	1.511
1004	4.338	34.568	27.407	1.514



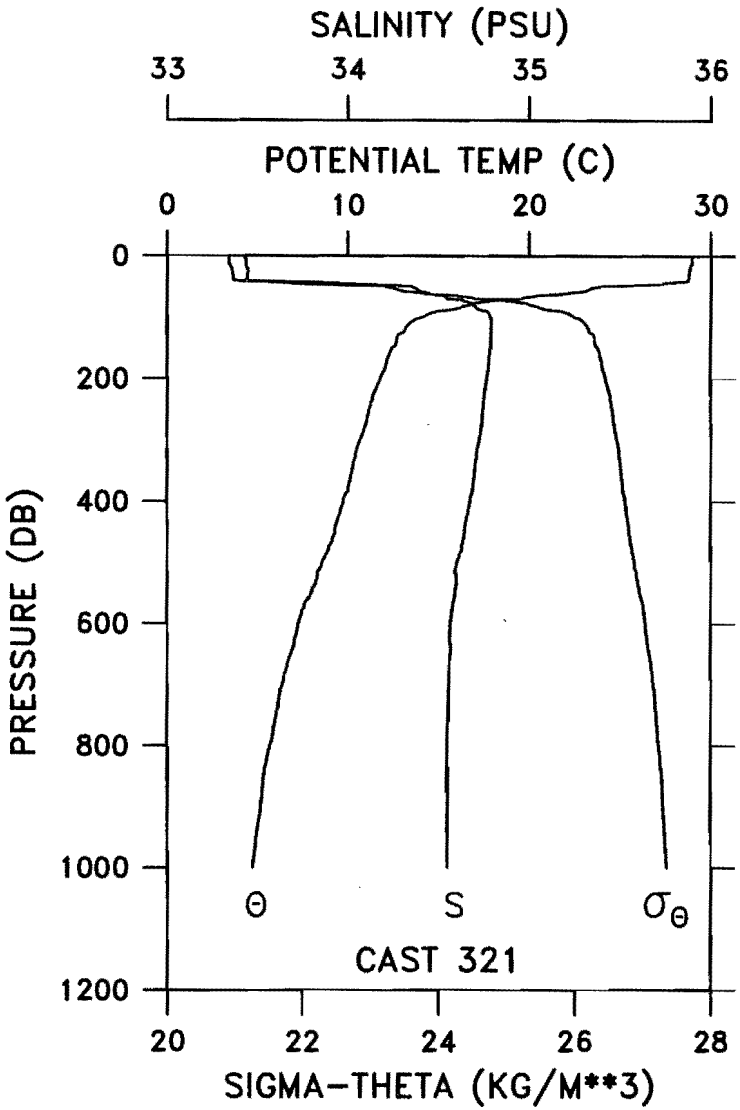
CAST GP5-97-KA-0301 DATE 23 AUG 97 TIME 1124 GMT
LAT 08 59.6N LONG 110 30.3W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 118 T SPD 06 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 25.5 WET 27.0 DEPTH 3743 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.913	33.359	20.864	0.000
10	28.912	33.359	20.864	0.069
20	28.915	33.360	20.864	0.138
30	28.718	33.488	21.025	0.207
40	27.651	33.891	21.676	0.271
50	22.746	34.553	23.669	0.323
60	18.221	34.698	24.987	0.358
70	16.524	34.740	25.428	0.385
80	14.313	34.889	26.036	0.408
90	13.951	34.897	26.118	0.428
100	13.841	34.895	26.140	0.447
110	13.689	34.889	26.167	0.466
120	13.518	34.883	26.198	0.484
130	13.357	34.865	26.217	0.502
140	13.311	34.861	26.223	0.521
150	13.171	34.858	26.249	0.539
160	13.066	34.866	26.277	0.557
170	12.926	34.850	26.292	0.575
180	12.688	34.831	26.325	0.592
190	12.472	34.825	26.362	0.609
200	12.095	34.782	26.402	0.626
250	11.284	34.752	26.531	0.706
300	10.743	34.732	26.614	0.782
350	10.334	34.715	26.673	0.856
400	9.286	34.658	26.804	0.924
450	8.442	34.618	26.907	0.987
500	7.890	34.599	26.976	1.048
550	7.586	34.587	27.011	1.105
600	6.921	34.572	27.093	1.160
650	6.499	34.563	27.143	1.212
700	6.136	34.559	27.187	1.262
750	5.905	34.558	27.215	1.310
800	5.611	34.557	27.252	1.356
900	5.002	34.560	27.326	1.445
1000	4.415	34.564	27.395	1.526
1002	4.395	34.564	27.398	1.527



CAST GP5-97-KA-0311 DATE 23 AUG 97 TIME 1810 GMT
LAT 10 00.6N LONG 110 49.0W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 092 T SPD 12 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 29.0 WET 26.0 DEPTH 3591 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.967	33.621	21.042	0.000
10	28.929	33.618	21.053	0.067
20	28.912	33.623	21.062	0.135
30	28.678	33.763	21.245	0.201
40	26.482	34.261	22.327	0.260
50	24.161	34.400	23.141	0.310
60	18.968	34.628	24.746	0.351
70	16.683	34.719	25.374	0.380
80	14.548	34.805	25.920	0.404
90	14.426	34.790	25.935	0.425
100	13.580	34.832	26.146	0.444
110	13.345	34.815	26.180	0.463
120	13.120	34.808	26.221	0.481
130	12.883	34.812	26.271	0.499
140	12.784	34.813	26.291	0.517
150	12.617	34.811	26.323	0.535
160	12.401	34.803	26.359	0.552
170	12.220	34.795	26.388	0.569
180	12.043	34.785	26.414	0.585
190	11.882	34.779	26.440	0.602
200	11.851	34.775	26.443	0.618
250	11.112	34.749	26.560	0.697
300	10.591	34.728	26.637	0.772
350	10.181	34.706	26.692	0.844
400	9.587	34.675	26.768	0.914
450	9.098	34.648	26.827	0.980
500	8.494	34.619	26.900	1.044
550	7.915	34.597	26.970	1.104
600	7.589	34.587	27.010	1.163
650	6.969	34.571	27.085	1.218
700	6.585	34.563	27.132	1.271
750	6.198	34.561	27.180	1.322
800	5.771	34.556	27.231	1.370
900	4.951	34.555	27.328	1.459
1000	4.442	34.562	27.391	1.540
1003	4.441	34.562	27.391	1.543



CAST GP5-97-KA-0321 DATE 24 AUG 97 TIME 0039 GMT
LAT 11 00.4N LONG 111 06.7W WEATHER 5 SEA STATE 3
BAROMETER 09 WIND DIR 084 T SPD 13 KT VISIBILITY 7
CLOUD 8 AMOUNT 6 DRY 27.7 WET 25.5 DEPTH 3349 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.960	33.432	20.903	0.000
10	28.959	33.436	20.906	0.069
20	28.845	33.443	20.949	0.137
30	28.791	33.443	20.967	0.205
40	28.741	33.439	20.981	0.273
50	23.842	34.354	23.201	0.332
60	22.192	34.443	23.742	0.377
70	19.184	34.560	24.639	0.414
80	16.671	34.692	25.356	0.442
90	14.947	34.771	25.808	0.467
100	14.077	34.786	26.006	0.488
110	13.393	34.791	26.152	0.507
120	13.175	34.790	26.196	0.526
130	12.757	34.792	26.281	0.544
140	12.690	34.788	26.291	0.562
150	12.433	34.786	26.340	0.579
160	12.301	34.781	26.362	0.596
170	12.157	34.778	26.387	0.613
180	12.095	34.775	26.397	0.630
190	11.936	34.771	26.424	0.646
200	11.803	34.766	26.446	0.663
250	11.182	34.746	26.545	0.742
300	10.690	34.725	26.617	0.818
350	10.244	34.701	26.677	0.890
400	9.772	34.674	26.737	0.961
450	9.288	34.645	26.794	1.029
500	8.589	34.604	26.873	1.095
550	7.994	34.594	26.956	1.156
600	7.276	34.567	27.039	1.213
650	6.874	34.567	27.095	1.268
700	6.366	34.560	27.158	1.320
750	6.019	34.554	27.198	1.369
800	5.681	34.548	27.235	1.417
900	5.179	34.552	27.299	1.507
1000	4.735	34.551	27.349	1.592
1002	4.725	34.551	27.351	1.594

CAST GP5-97-KA-0011 LAT 08 05.7N LONG 95 00.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
75.	14.240	34.864	14.229	26.033
149.	12.690	34.798	12.670	26.304
502.	8.602	34.641	8.549	26.909
1001.	4.700	34.568	4.619	27.378
1503.	3.112	34.613	3.002	27.574
2002.	2.246	34.648	2.106	27.681
3462.	1.820	34.673	1.550	27.746
3463.	1.820	34.674	1.550	27.746

CAST GP5-97-KA-0012 LAT 08 00.6N LONG 94 57.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	11.572	34.725	11.547	26.461
603.	7.059	34.586	7.001	27.094
1392.	3.347	34.607	3.244	27.547
1394.	3.342	34.629	3.239	27.548
1394.	3.341	34.605	3.238	27.548

CAST GP5-97-KA-0021 LAT 06 00.6N LONG 94 53.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.754	33.217	28.751	20.809
199.	12.613	34.854	12.586	26.363
801.	5.714	34.570	5.644	27.258
1002.	4.642	34.574	4.562	27.387

CAST GP5-97-KA-0031 LAT 05 00.7N LONG 94 51.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	13.409	34.920	13.381	26.255
599.	7.288	34.600	7.230	27.071
800.	5.603	34.569	5.534	27.270
1002.	4.422	34.575	4.343	27.411
1499.	2.914	34.621	2.807	27.598

CAST GP5-97-KA-0041 LAT 03 59.7N LONG 94 54.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.355	33.578	28.353	21.228
200.	13.472	34.937	13.444	26.245
798.	5.635	34.567	5.566	27.268
999.	4.519	34.570	4.439	27.401
1300.	3.353	34.604	3.258	27.548

CAST GP5-97-KA-0051 LAT 03 00.3N LONG 94 58.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.581	33.689	28.579	21.224
200.	14.033	34.981	14.004	26.171
798.	5.449	34.564	5.381	27.284
1000.	4.510	34.580	4.431	27.401

CAST GP5-97-KA-0061 LAT 02 00.0N LONG 95 01.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.268	33.636	28.266	21.285
199.	14.143	34.995	14.114	26.162
599.	6.788	34.591	6.731	27.137
798.	5.316	34.562	5.248	27.300
1000.	4.416	34.569	4.337	27.409

CAST GP5-97-KA-0071 LAT 01 00.3N LONG 94 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	27.806	33.726	27.803	21.503
200.	14.815	35.006	14.785	26.024
797.	5.405	34.561	5.338	27.289
1007.	4.333	34.571	4.254	27.419

CAST GP5-97-KA-0081 LAT 00 01.2S LONG 94 59.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.586	34.536	26.584	22.500
200.	14.120	34.965	14.091	26.142
600.	6.682	34.584	6.626	27.139
801.	5.163	34.554	5.096	27.309
1002.	4.385	34.570	4.306	27.410

CAST GP5-97-KA-0091 LAT 00 59.8S LONG 95 09.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.804	35.160	25.802	23.147
200.	13.922	34.989	13.893	26.181
600.	6.914	34.583	6.857	27.071
800.	5.152	34.553	5.086	27.296
1001.	4.511	34.562	4.431	27.388

CAST GP5-97-KA-0101 LAT 01 54.6S LONG 95 19.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.771	35.124	25.769	23.199
200.	14.010	34.997	13.982	26.189
600.	6.738	34.573	6.681	27.127
799.	5.266	34.549	5.199	27.294
1003.	4.364	34.564	4.286	27.408

CAST GP5-97-KA-0111 LAT 02 59.9S LONG 95 15.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	26.480	35.194	26.478	23.033
201.	13.668	34.978	13.639	26.249
599.	7.032	34.593	6.974	27.104
801.	5.429	34.556	5.361	27.282
1002.	4.472	34.560	4.392	27.395
1002.	4.472	34.560	4.392	27.395

CAST GP5-97-KA-0131 LAT 04 59.5S LONG 95 09.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.069	35.157	26.067	23.133
201.	13.154	34.934	13.126	26.319
600.	7.471	34.610	7.412	27.054
800.	5.759	34.564	5.689	27.247
1003.	4.574	34.560	4.494	27.383
1004.	4.564	34.560	4.483	27.384

CAST GP5-97-KA-0141 LAT 06 00.0S LONG 95 06.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.843	35.324	25.840	23.330
201.	12.717	34.913	12.690	26.389
600.	7.625	34.614	7.564	27.036
1003.	4.605	34.547	4.524	27.369
1003.	4.610	34.546	4.529	27.369

CAST GP5-97-KA-0151 LAT 06 59.8S LONG 95 06.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.770	35.476	25.768	23.468
201.	12.173	34.895	12.147	26.477
599.	7.559	34.614	7.499	27.043
800.	5.744	34.549	5.674	27.237
1003.	4.629	34.547	4.548	27.367
1001.	4.632	34.547	4.551	27.366

CAST GP5-97-KA-0161 LAT 08 00.3S LONG 95 07.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.146	35.276	25.144	23.508
600.	7.515	34.607	7.455	27.046
802.	5.765	34.546	5.695	27.233
1003.	4.665	34.547	4.584	27.362

CAST GP5-97-KA-0171 LAT 08 02.0S LONG 102 17.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	25.399	35.303	25.397	23.449
10.	25.398	35.303	25.396	23.450
200.	12.482	34.908	12.456	26.430
199.	12.509	34.909	12.482	26.426
300.	11.365	34.831	11.327	26.586
400.	10.064	34.748	10.017	26.753
400.	10.064	34.749	10.017	26.753
500.	8.742	34.669	8.688	26.906
501.	8.738	34.668	8.683	26.907

CAST GP5-97-KA-0181 LAT 08 01.5S LONG 109 54.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	26.289	35.468	26.287	23.294
10.	26.297	35.467	26.295	23.289
201.	13.031	34.939	13.003	26.367
200.	13.081	34.940	13.054	26.323
302.	11.485	34.841	11.446	26.559
399.	10.096	34.751	10.049	26.737
401.	10.077	34.757	10.030	26.757
504.	9.037	34.687	8.982	26.877
505.	9.037	34.687	8.981	26.880

CAST GP5-97-KA-0191 LAT 04 58.0S LONG 110 03.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.040	35.462	27.037	23.053
10.	27.040	35.463	27.038	23.053
203.	13.115	34.929	13.087	26.321
201.	13.132	34.929	13.105	26.318
301.	12.458	34.889	12.418	26.414
402.	10.906	34.811	10.856	26.641
402.	10.905	34.798	10.855	26.642
498.	9.324	34.705	9.268	26.842

CAST GP5-97-KA-0202 LAT 04 57.4S LONG 110 00.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.024	35.476	27.022	23.072
200.	13.245	34.939	13.217	26.305
199.	13.249	34.939	13.221	26.304
603.	7.881	34.626	7.819	27.009
602.	7.884	34.627	7.822	27.008
797.	5.894	34.549	5.824	27.219
798.	5.886	34.549	5.815	27.220
1001.	4.794	34.541	4.713	27.344

CAST GP5-97-KA-0211 LAT 03 59.8S LONG 110 01.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	27.194	35.233	27.191	22.835
11.	27.190	35.233	27.188	22.836
200.	13.406	34.960	13.378	26.288
199.	13.407	34.960	13.379	26.287
300.	12.509	34.892	12.469	26.417
400.	11.072	34.809	11.022	26.624
501.	9.368	34.707	9.311	26.838
501.	9.373	34.707	9.316	26.837

CAST GP5-97-KA-0231 LAT 01 58.7N LONG 110 47.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	27.248	34.627	27.246	22.358
201.	13.726	34.951	13.698	26.208
799.	5.263	34.555	5.196	27.297
1002.	4.417	34.564	4.338	27.401
1003.	4.413	34.565	4.334	27.402

CAST GP5-97-KA-0241 LAT 03 00.3N LONG 110 29.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.078	34.287	28.076	21.835
201.	13.127	34.899	13.099	26.297
600.	6.918	34.579	6.861	27.107
801.	5.402	34.557	5.334	27.284
1004.	4.546	34.562	4.466	27.386
1004.	4.545	34.561	4.464	27.386

CAST GP5-97-KA-0251 LAT 04 00.6N LONG 110 14.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.154	34.295	28.152	21.817
200.	13.222	34.912	13.194	26.288
600.	7.682	34.609	7.621	27.024
800.	5.768	34.570	5.698	27.247
1003.	4.701	34.565	4.619	27.373
1005.	4.700	34.575	4.618	27.373

CAST GP5-97-KA-0261 LAT 05 02.1N LONG 109 57.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.682	34.240	28.680	21.603
201.	12.369	34.819	12.343	26.384
601.	7.447	34.597	7.387	27.048
799.	5.900	34.560	5.829	27.226
1003.	4.853	34.564	4.770	27.355
1003.	4.852	34.564	4.770	27.355

CAST GP5-97-KA-0271 LAT 05 59.7N LONG 110 01.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.088	34.066	29.085	21.335
200.	11.997	34.774	11.970	26.418
601.	7.313	34.590	7.254	27.061
800.	5.690	34.558	5.621	27.251
1002.	4.678	34.563	4.596	27.375
1002.	4.676	34.563	4.595	27.375

CAST GP5-97-KA-0281 LAT 06 59.8N LONG 110 05.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.011	33.627	29.008	21.038
200.	12.184	34.832	12.158	26.432
600.	7.137	34.583	7.079	27.082
801.	5.574	34.559	5.504	27.268
1002.	4.582	34.564	4.502	27.387
1002.	4.582	34.564	4.501	27.387

CAST GP5-97-KA-0291 LAT 08 08.1N LONG 110 14.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.906	33.276	28.904	20.805
200.	11.756	34.760	11.730	26.454
602.	7.224	34.582	7.165	27.068
1003.	4.417	34.568	4.337	27.407

CAST GP5-97-KA-0301 LAT 08 59.6N LONG 110 30.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.932	33.366	28.930	20.863
200.	12.478	34.822	12.451	26.364
600.	6.954	34.572	6.897	27.096
800.	5.680	34.560	5.610	27.252
1000.	4.496	34.564	4.416	27.395

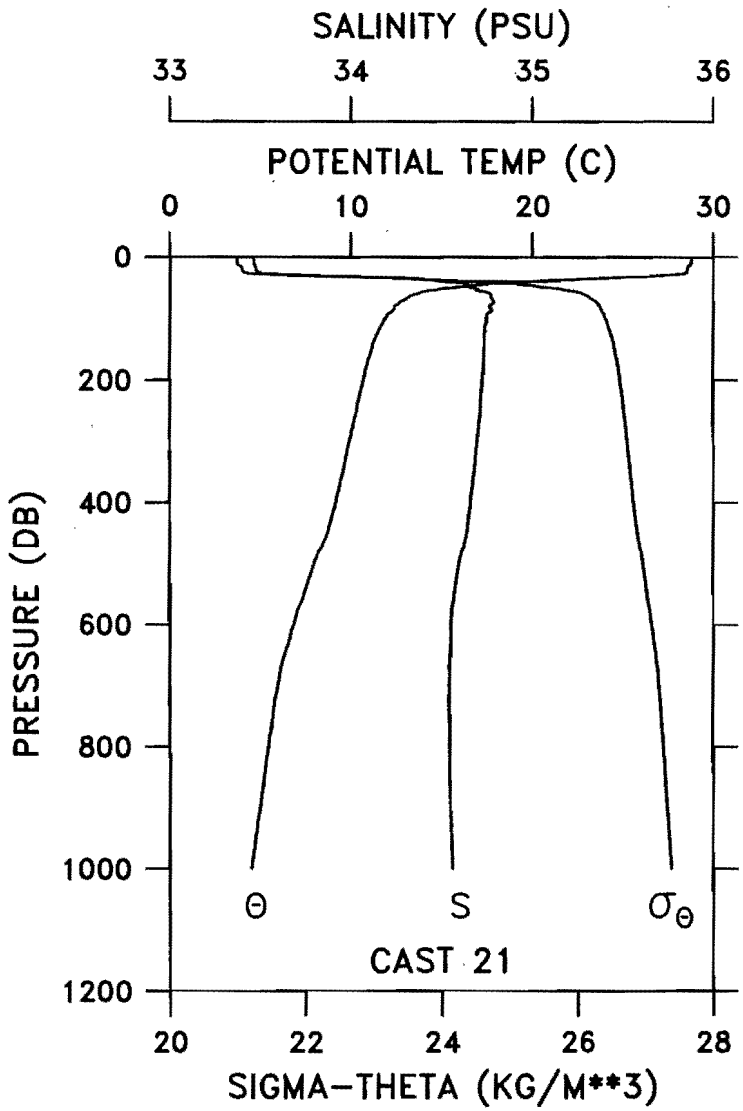
CAST GP5-97-KA-0311 LAT 10 00.6N LONG 110 49.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
600.	7.747	34.589	7.686	26.999
1003.	4.520	34.561	4.440	27.391

CAST GP5-97-KA-0321 LAT 11 00.4N LONG 111 06.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.933	33.439	28.931	20.916
199.	11.839	34.764	11.813	26.444
1000.	4.817	34.549	4.735	27.349

GP6-97-KA
September 27–October 26, 1997
CTD and Hydrographic Data Summary

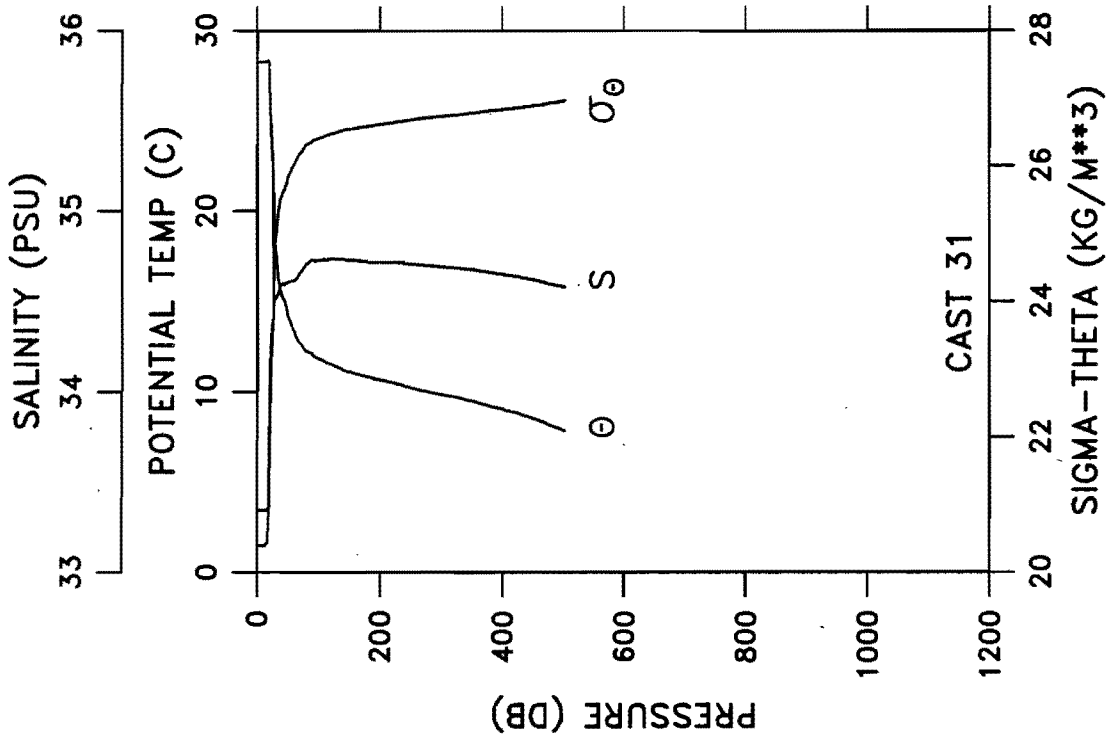


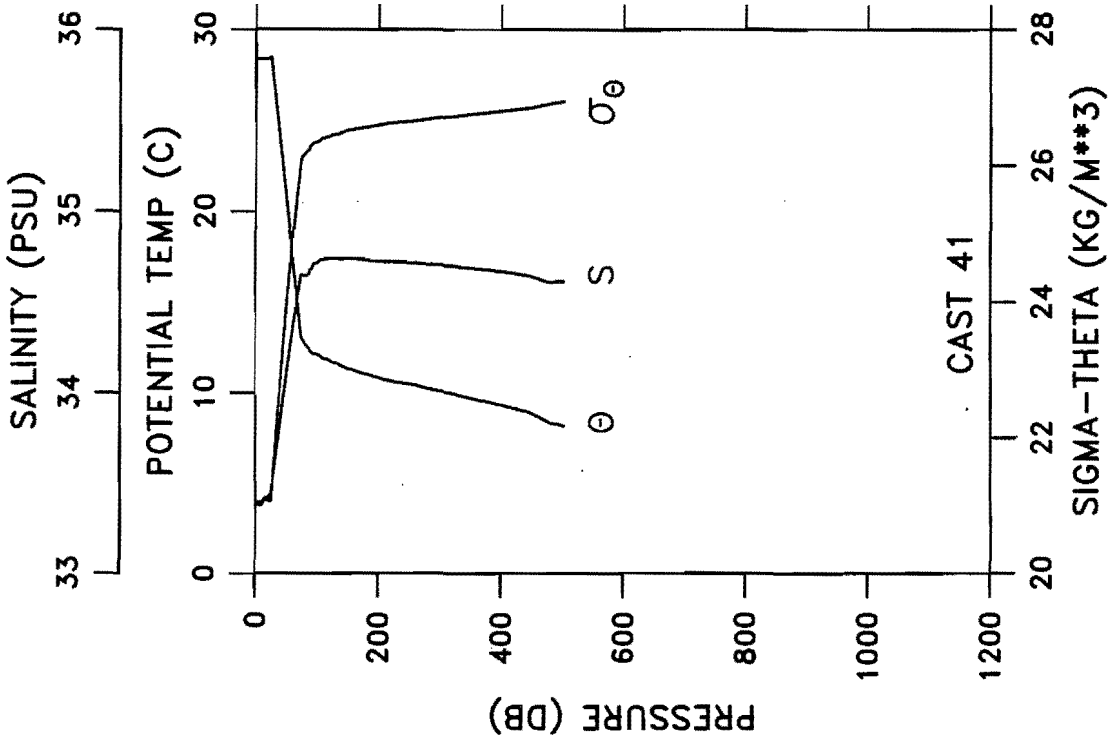
CAST GP6-97-KA-0021 DATE 04 OCT 97 TIME 0104 GMT
LAT 09 57.4N LONG 125 24.7W WEATHER 2 SEA STATE 2
BAROMETER 06 WIND DIR 013 T SPD 17 KT VISIBILITY 7
CLOUD 6 AMOUNT 6 DRY 28.4 WET 25.5 DEPTH 4628 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.769	33.466	20.992	0.000
10	28.770	33.465	20.991	0.068
20	28.557	33.476	21.069	0.135
30	26.873	33.788	21.848	0.201
40	19.787	34.518	24.451	0.246
50	15.540	34.686	25.611	0.274
60	13.586	34.765	26.093	0.295
70	12.910	34.784	26.244	0.313
80	12.396	34.761	26.327	0.331
90	12.184	34.761	26.369	0.348
100	11.872	34.745	26.416	0.364
110	11.698	34.737	26.443	0.380
120	11.523	34.736	26.474	0.396
130	11.360	34.735	26.504	0.412
140	11.217	34.735	26.530	0.427
150	11.120	34.733	26.546	0.443
160	11.039	34.732	26.560	0.458
170	10.926	34.729	26.579	0.473
180	10.818	34.727	26.596	0.488
190	10.746	34.723	26.606	0.502
200	10.683	34.721	26.615	0.517
250	10.307	34.709	26.672	0.589
300	9.913	34.692	26.727	0.658
350	9.563	34.677	26.773	0.726
400	9.159	34.657	26.824	0.792
450	8.713	34.637	26.880	0.856
500	7.966	34.594	26.960	0.917
550	7.411	34.568	27.021	0.975
600	6.835	34.549	27.086	1.029
650	6.313	34.545	27.153	1.081
700	5.935	34.540	27.198	1.130
750	5.671	34.541	27.231	1.177
800	5.437	34.543	27.262	1.223
900	4.976	34.548	27.320	1.311
1000	4.520	34.559	27.380	1.393
1004	4.516	34.558	27.380	1.396

CAST GP6-97-KA-0031 DATE 04 OCT 97 TIME 0935 GMT
LAT 09 01.1N LONG 125 14.5W WEATHER 5 SEA STATE 2
BAROMETER 08 WIND DIR 017 T SPD 10 KT VISIBILITY 7
CLOUD 6 AMOUNT 6 DRY 26.0 WET 24.6 DEPTH 4574 M

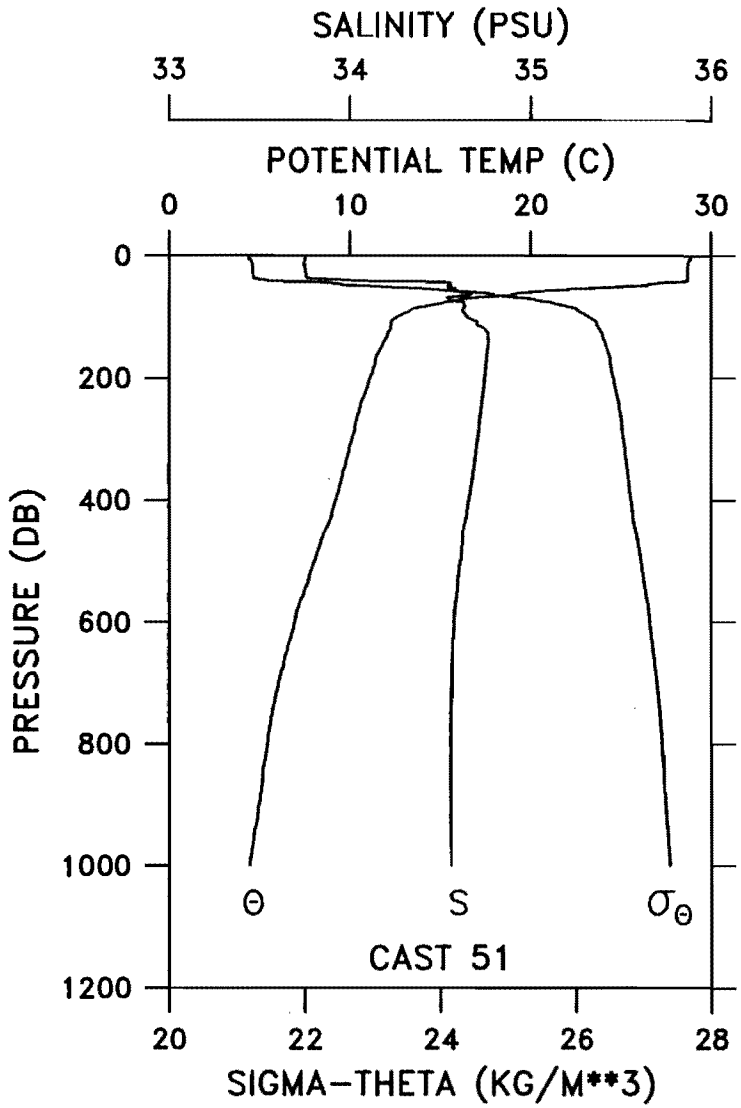
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.269	33.151	20.919	0.000
10	28.269	33.149	20.918	0.069
20	26.944	34.015	21.996	0.136
30	17.837	34.517	24.943	0.179
40	15.364	34.595	25.580	0.205
50	14.205	34.607	25.841	0.228
60	13.359	34.615	26.023	0.249
70	12.677	34.662	26.195	0.268
80	12.236	34.705	26.315	0.286
90	12.048	34.729	26.370	0.303
100	11.838	34.728	26.409	0.319
110	11.676	34.733	26.444	0.335
120	11.530	34.737	26.474	0.351
130	11.377	34.734	26.500	0.367
140	11.208	34.732	26.529	0.383
150	11.104	34.727	26.545	0.398
160	11.007	34.726	26.562	0.413
170	10.925	34.724	26.574	0.428
180	10.837	34.719	26.587	0.443
190	10.731	34.717	26.604	0.458
200	10.667	34.718	26.616	0.472
250	10.235	34.706	26.683	0.544
300	9.874	34.693	26.734	0.613
350	9.513	34.677	26.782	0.681
400	9.064	34.652	26.836	0.746
450	8.550	34.620	26.892	0.809
500	7.892	34.583	26.963	0.870
503	7.858	34.580	26.965	0.873





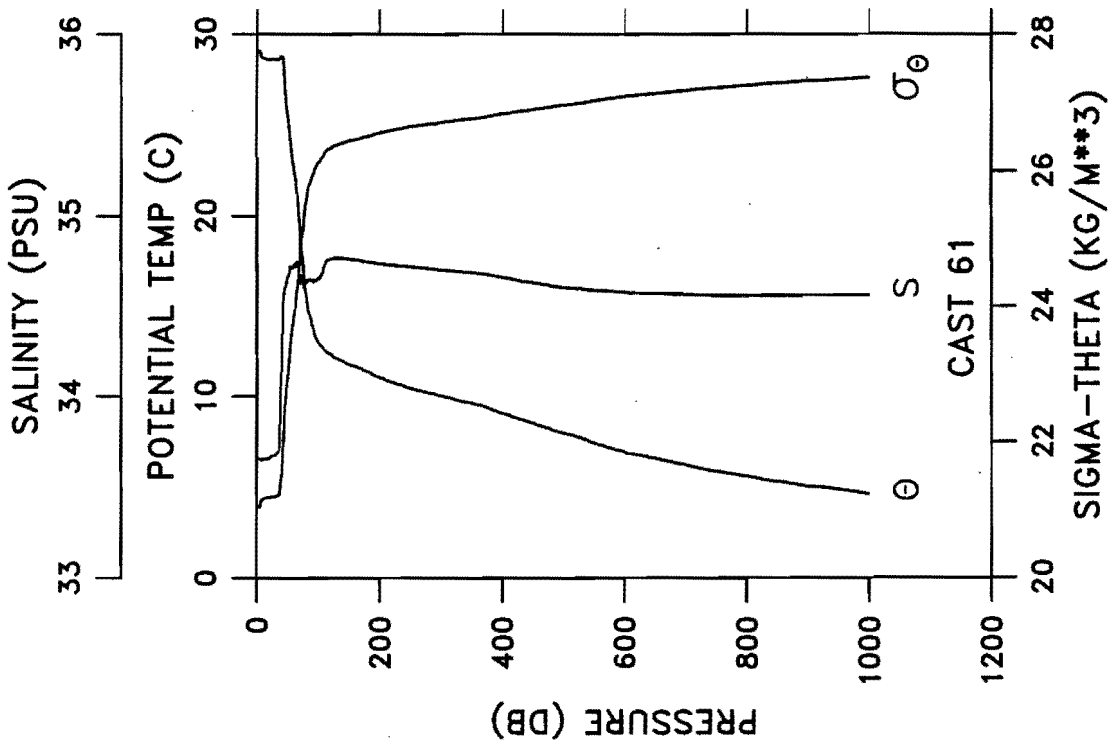
CAST GP6-97-KA-0041 DATE 04 OCT 97 TIME 1337 GMT
LAT 08 30.0N LONG 125 06.4W WEATHER 5 SEA STATE 1
BAROMETER 07 WIND DIR 004 T SPD 11 KT VISIBILITY 7
CLOUD 8 AMOUNT 6 DRY 25.1 WET 22.4 DEPTH 4512 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.372	33.382	21.059	0.000
10	28.369	33.379	21.058	0.067
20	28.406	33.421	21.077	0.134
30	26.905	33.580	21.680	0.200
40	23.753	33.846	22.842	0.256
50	20.600	34.104	23.921	0.301
60	17.448	34.348	24.908	0.336
70	14.297	34.569	25.792	0.362
80	12.676	34.645	26.183	0.382
90	12.239	34.681	26.296	0.400
100	12.105	34.718	26.350	0.417
110	11.877	34.734	26.407	0.433
120	11.781	34.738	26.428	0.450
130	11.623	34.737	26.457	0.466
140	11.465	34.736	26.485	0.482
150	11.320	34.741	26.516	0.497
160	11.225	34.738	26.531	0.513
170	11.115	34.734	26.548	0.528
180	11.028	34.730	26.561	0.543
190	10.920	34.727	26.578	0.558
200	10.825	34.724	26.593	0.573
250	10.476	34.715	26.647	0.646
300	10.104	34.704	26.704	0.717
350	9.717	34.687	26.756	0.786
400	9.346	34.668	26.802	0.853
450	8.874	34.641	26.857	0.918
500	8.189	34.612	26.941	0.979
502	8.171	34.611	26.943	0.982



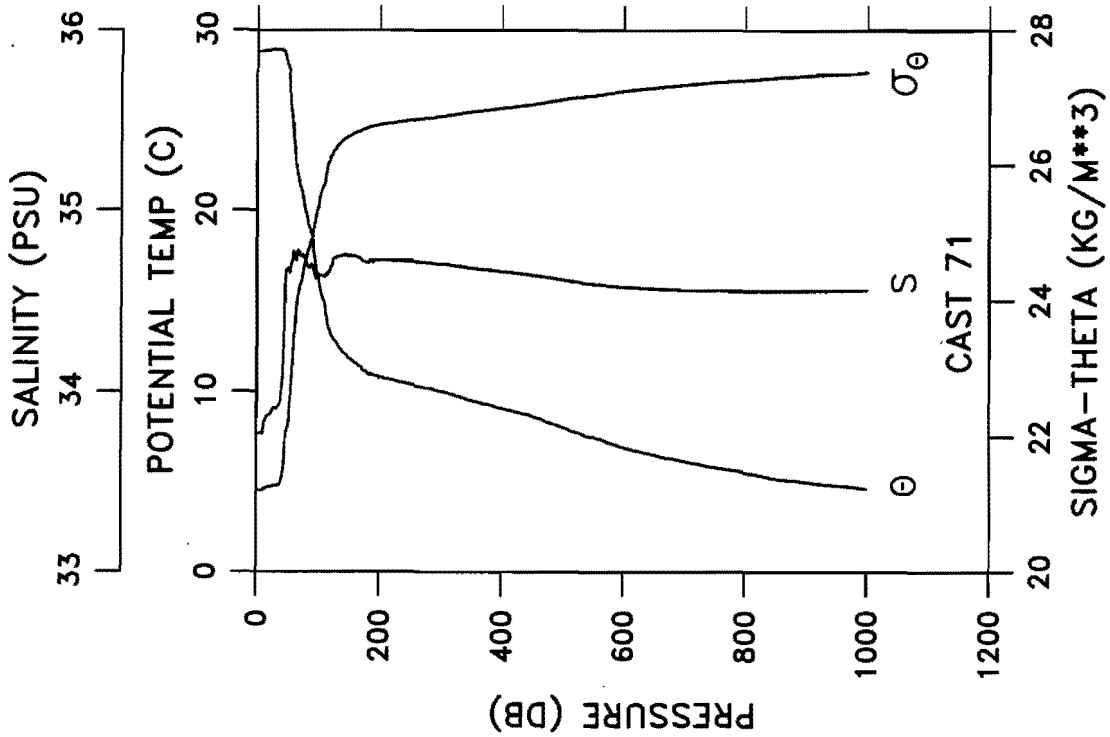
CAST GP6-97-KA-0051 DATE 05 OCT 97 TIME 0104 GMT
LAT 08 01.9N LONG 124 59.2W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 359 T SPD 01 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 29.7 WET 27.7 DEPTH 4634 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.870	33.754	21.175	0.000
10	28.737	33.748	21.214	0.066
20	28.697	33.753	21.231	0.132
30	28.683	33.758	21.239	0.197
40	28.686	33.995	21.416	0.262
50	24.969	34.545	23.009	0.318
60	19.633	34.622	24.570	0.358
70	16.264	34.555	25.345	0.389
80	14.585	34.631	25.778	0.413
90	13.322	34.623	26.036	0.434
100	12.619	34.650	26.198	0.453
110	12.273	34.703	26.307	0.471
120	12.233	34.748	26.349	0.488
130	12.082	34.765	26.391	0.505
140	11.877	34.766	26.431	0.521
150	11.736	34.762	26.455	0.537
160	11.552	34.757	26.485	0.553
170	11.413	34.753	26.508	0.569
180	11.352	34.752	26.518	0.584
190	11.262	34.748	26.532	0.600
200	11.088	34.744	26.561	0.615
250	10.538	34.724	26.644	0.689
300	10.116	34.706	26.703	0.760
350	9.647	34.683	26.764	0.829
400	9.223	34.659	26.816	0.895
450	8.643	34.625	26.882	0.959
500	8.033	34.610	26.963	1.020
550	7.479	34.592	27.030	1.077
600	6.945	34.576	27.093	1.132
650	6.494	34.567	27.147	1.183
700	6.037	34.562	27.202	1.232
750	5.689	34.558	27.243	1.279
800	5.427	34.557	27.274	1.325
900	4.944	34.558	27.331	1.412
1000	4.447	34.563	27.391	1.493
1002	4.440	34.562	27.391	1.495



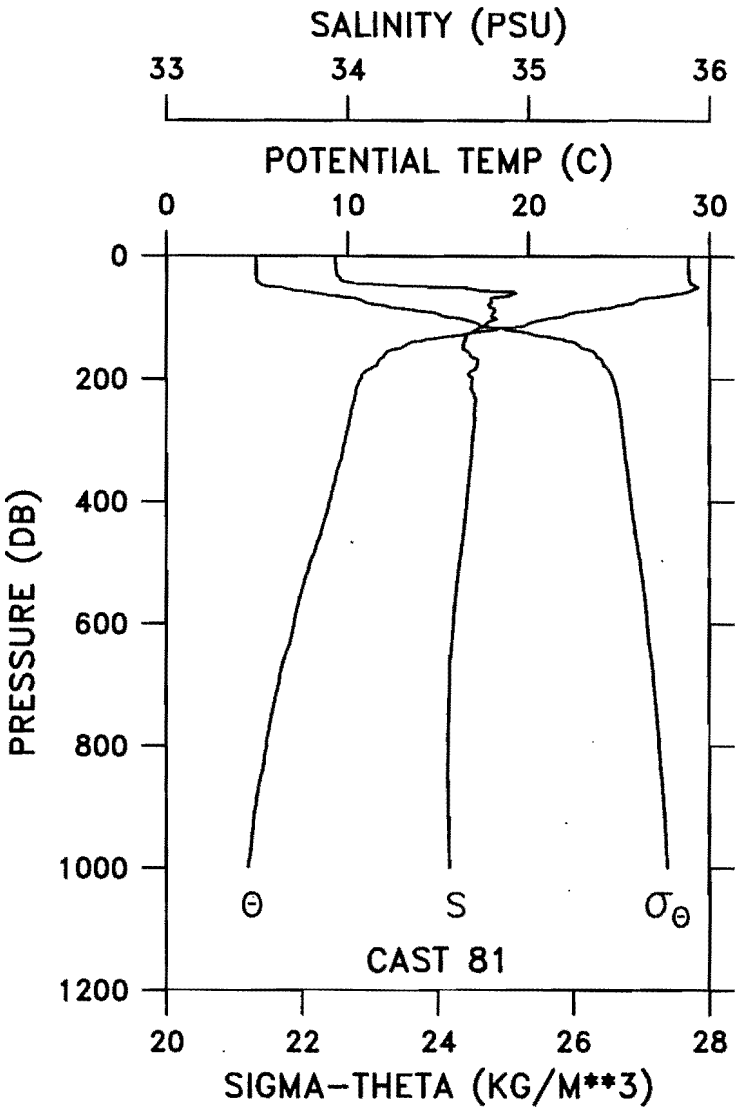
CAST GP6-97-KA-0061 DATE 05 OCT 97 TIME 0515 GMT
LAT 07 30.0N LONG 124 58.7W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 310 T SPD 03 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.1 WET 25.6 DEPTH 4567 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.083	33.658	21.031	0.000
10	28.694	33.655	21.158	0.067
20	28.619	33.658	21.185	0.133
30	28.630	33.678	21.196	0.199
40	28.788	34.103	21.464	0.264
50	25.548	34.658	22.917	0.320
60	22.629	34.717	23.827	0.365
70	19.096	34.625	24.711	0.402
80	15.639	34.629	25.545	0.430
90	13.928	34.639	25.924	0.453
100	12.979	34.653	26.129	0.473
110	12.573	34.726	26.266	0.491
120	12.348	34.761	26.337	0.508
130	12.112	34.765	26.385	0.525
140	11.959	34.765	26.415	0.542
150	11.783	34.761	26.445	0.558
160	11.673	34.757	26.463	0.574
170	11.546	34.752	26.483	0.590
180	11.371	34.745	26.510	0.606
190	11.190	34.740	26.539	0.621
200	11.055	34.735	26.560	0.636
250	10.455	34.719	26.654	0.710
300	10.028	34.701	26.714	0.781
350	9.621	34.685	26.770	0.849
400	9.079	34.659	26.839	0.915
450	8.555	34.630	26.899	0.978
500	7.986	34.604	26.966	1.038
550	7.435	34.589	27.034	1.095
600	6.947	34.578	27.094	1.149
650	6.590	34.571	27.137	1.201
700	6.231	34.563	27.178	1.251
750	5.865	34.560	27.222	1.299
800	5.603	34.560	27.255	1.346
900	5.025	34.561	27.324	1.434
1000	4.621	34.564	27.373	1.517
1002	4.608	34.564	27.374	1.519



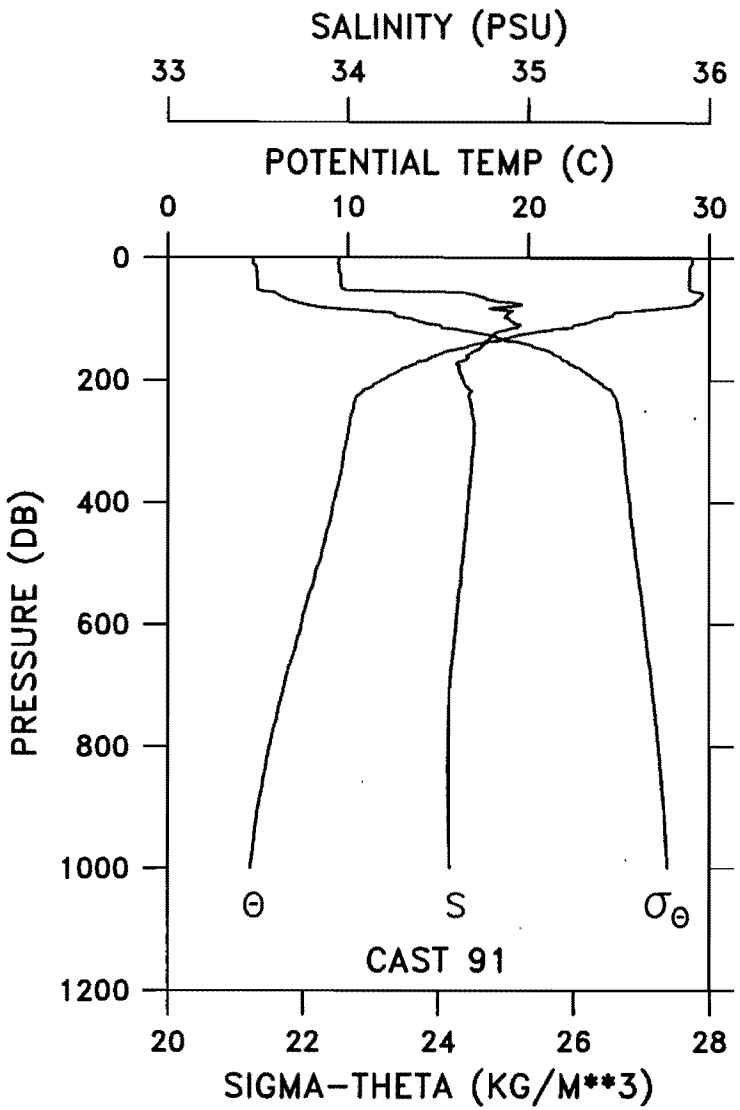
CAST GP6-97-KA-0071 DATE 05 OCT 97 TIME 1017 GMT
LAT 06 59.9N LONG 124 58.2W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 323 T SPD 04 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 26.5 WET 25.6 DEPTH 4628 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.806	33.772	21.209	0.000
10	28.810	33.772	21.208	0.066
20	28.884	33.872	21.258	0.131
30	28.911	33.908	21.276	0.196
40	28.903	34.030	21.371	0.261
50	28.040	34.667	22.133	0.322
60	24.006	34.774	23.470	0.374
70	21.349	34.766	24.222	0.414
80	19.862	34.720	24.586	0.450
90	18.553	34.702	24.907	0.482
100	16.445	34.628	25.360	0.510
110	14.911	34.636	25.712	0.534
120	13.098	34.688	26.132	0.555
130	12.638	34.743	26.266	0.573
140	12.159	34.752	26.367	0.591
150	11.820	34.745	26.426	0.607
160	11.579	34.747	26.473	0.623
170	11.328	34.731	26.506	0.639
180	11.001	34.713	26.553	0.654
190	10.869	34.712	26.576	0.669
200	10.791	34.721	26.596	0.684
250	10.410	34.718	26.661	0.757
300	10.004	34.701	26.718	0.827
350	9.505	34.680	26.786	0.895
400	9.080	34.661	26.840	0.960
450	8.653	34.642	26.893	1.024
500	8.025	34.615	26.968	1.084
550	7.504	34.593	27.027	1.141
600	6.940	34.577	27.094	1.195
650	6.511	34.568	27.145	1.247
700	6.156	34.561	27.186	1.297
750	5.824	34.557	27.225	1.345
800	5.512	34.556	27.262	1.391
900	4.996	34.555	27.323	1.478
1000	4.597	34.560	27.372	1.561
1005	4.574	34.559	27.374	1.565



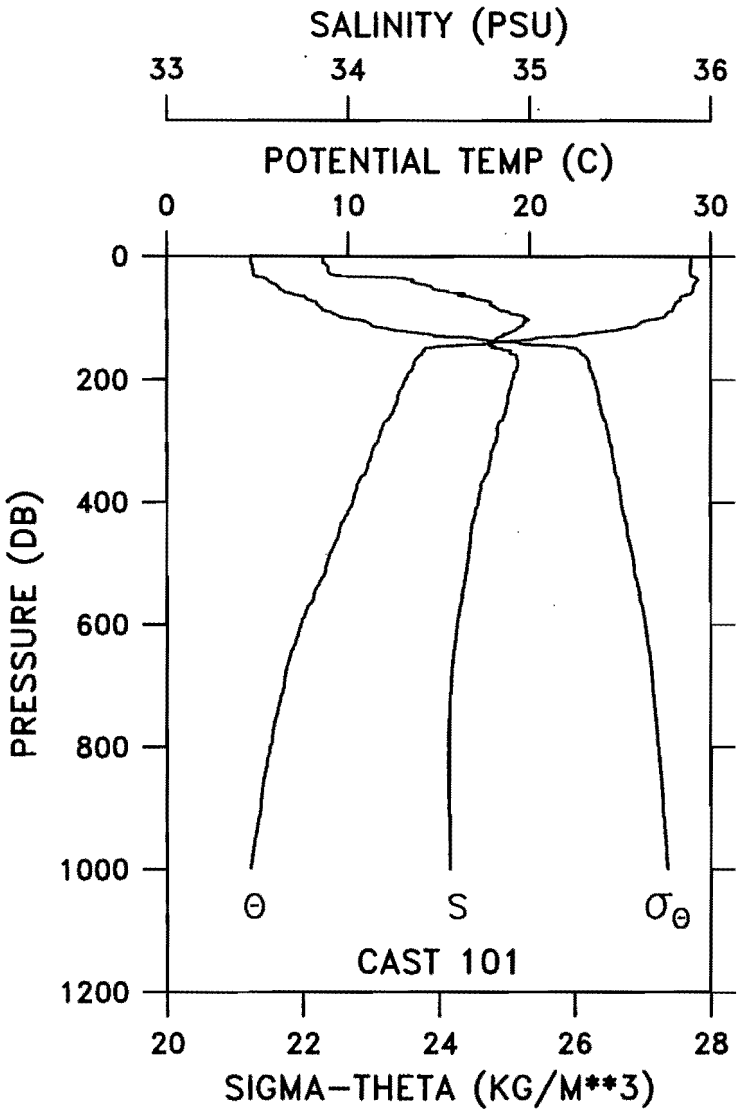
CAST GP6-97-KA-0081 DATE 05 OCT 97 TIME 1632 GMT
LAT 05 59.9N LONG 124 56.6W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 315 T SPD 06 KT VISIBILITY 7
CLOUD 5 AMOUNT 8 DRY 27.0 WET 25.3 DEPTH 4610 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.843	33.935	21.319	0.000
10	28.845	33.934	21.317	0.065
20	28.847	33.936	21.318	0.129
30	28.857	33.941	21.319	0.194
40	28.891	33.970	21.330	0.259
50	29.380	34.525	21.582	0.323
60	28.455	34.933	22.197	0.383
70	26.136	34.792	22.836	0.436
80	24.944	34.782	23.195	0.485
90	23.047	34.817	23.783	0.530
100	21.415	34.812	24.239	0.569
110	19.951	34.762	24.594	0.604
120	18.205	34.710	25.001	0.636
130	15.706	34.647	25.543	0.663
140	13.515	34.643	26.013	0.686
150	12.907	34.637	26.131	0.705
160	12.064	34.678	26.327	0.723
170	11.737	34.719	26.421	0.740
180	11.419	34.714	26.476	0.756
190	10.859	34.670	26.545	0.772
200	10.743	34.691	26.582	0.787
250	10.207	34.703	26.685	0.859
300	9.860	34.692	26.735	0.928
350	9.423	34.676	26.796	0.996
400	9.010	34.660	26.851	1.061
450	8.538	34.641	26.910	1.123
500	7.929	34.618	26.984	1.183
550	7.439	34.599	27.042	1.239
600	7.030	34.585	27.088	1.293
650	6.577	34.571	27.139	1.346
700	6.168	34.563	27.186	1.395
750	5.775	34.558	27.232	1.443
800	5.507	34.556	27.263	1.489
900	4.907	34.557	27.335	1.576
1000	4.500	34.565	27.387	1.657
1010	4.471	34.565	27.390	1.665



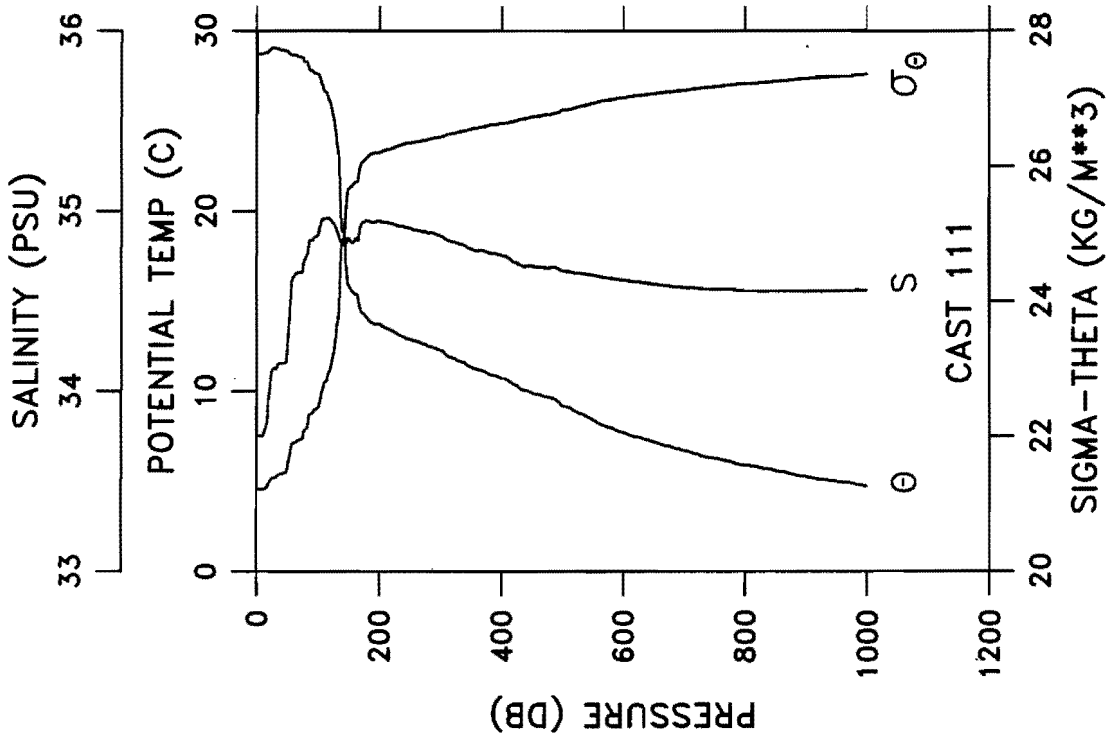
CAST GP6-97-KA-0091 DATE 06 OCT 97 TIME 0455 GMT
LAT 05 10.1N LONG 124 50.0W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 203 T SPD 06 KT VISIBILITY 7
CLOUD 5 AMOUNT 8 DRY 28.1 WET 26.4 DEPTH 4126 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.041	33.951	21.265	0.000
10	29.022	33.949	21.271	0.065
20	28.884	33.950	21.317	0.130
30	28.899	33.964	21.322	0.195
40	28.883	33.962	21.326	0.260
50	28.882	33.968	21.331	0.324
60	29.618	34.698	21.632	0.388
70	29.278	34.813	21.833	0.449
80	28.298	34.889	22.216	0.508
90	24.783	34.895	23.330	0.559
100	23.799	34.896	23.624	0.604
110	22.540	34.957	24.034	0.645
120	20.707	34.845	24.457	0.683
130	18.962	34.794	24.875	0.716
140	17.270	34.760	25.267	0.746
150	15.958	34.722	25.544	0.772
160	14.866	34.658	25.738	0.796
170	13.882	34.614	25.914	0.818
180	13.071	34.619	26.084	0.839
190	12.546	34.626	26.194	0.858
200	11.871	34.644	26.338	0.876
250	10.271	34.689	26.663	0.952
300	9.928	34.698	26.729	1.022
350	9.649	34.684	26.764	1.090
400	9.207	34.667	26.825	1.156
450	8.820	34.652	26.875	1.220
500	8.389	34.635	26.929	1.282
550	7.856	34.615	26.993	1.341
600	7.431	34.601	27.044	1.398
650	6.968	34.584	27.096	1.452
700	6.471	34.568	27.150	1.504
750	6.067	34.562	27.198	1.554
800	5.644	34.558	27.248	1.601
900	4.989	34.559	27.327	1.690
1000	4.583	34.564	27.377	1.773
1012	4.522	34.565	27.385	1.782



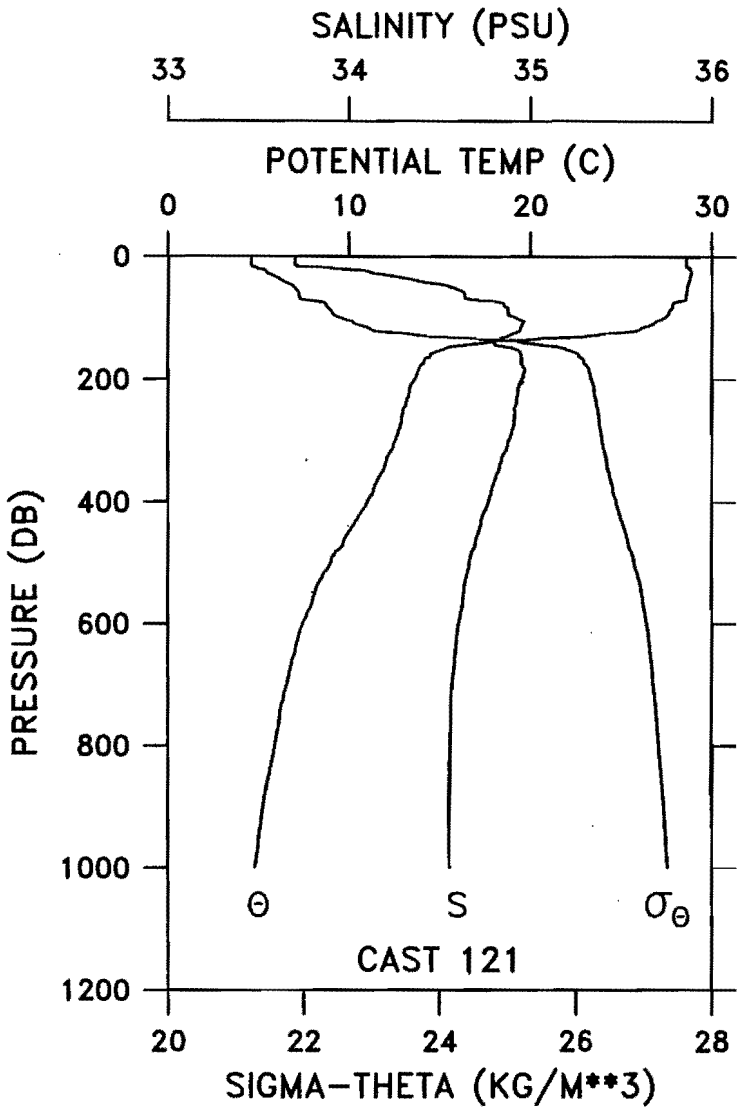
CAST GP6-97-KA-0101 DATE 07 OCT 97 TIME 0439 GMT
LAT 04 00.0N LONG 124 55.9W WEATHER 5 SEA STATE 2
BAROMETER 10 WIND DIR 270 T SPD 04 KT VISIBILITY 7
CLOUD 8 AMOUNT 8 DRY 25.3 WET 24.5 DEPTH 4506 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.935	33.865	21.236	0.000
10	28.933	33.862	21.235	0.065
20	28.887	33.889	21.270	0.131
30	28.908	33.911	21.280	0.196
40	29.223	34.349	21.503	0.260
50	29.033	34.462	21.651	0.322
60	28.917	34.642	21.825	0.383
70	28.331	34.726	22.082	0.442
80	28.010	34.796	22.240	0.499
90	27.704	34.885	22.407	0.555
100	27.262	34.972	22.615	0.608
110	26.068	34.965	22.988	0.659
120	24.753	34.919	23.356	0.706
130	21.745	34.846	24.174	0.748
140	17.747	34.799	25.182	0.781
150	14.213	34.846	26.024	0.806
160	13.989	34.928	26.134	0.825
170	13.661	34.932	26.206	0.844
180	13.558	34.930	26.225	0.862
190	13.289	34.912	26.267	0.881
200	13.147	34.906	26.291	0.899
250	12.508	34.868	26.389	0.985
300	11.642	34.816	26.514	1.067
350	10.986	34.771	26.600	1.144
400	10.261	34.716	26.686	1.217
450	9.508	34.676	26.782	1.287
500	8.843	34.657	26.875	1.352
550	8.149	34.629	26.960	1.414
600	7.411	34.600	27.046	1.471
650	6.810	34.579	27.114	1.525
700	6.468	34.567	27.150	1.577
750	6.041	34.557	27.198	1.626
800	5.685	34.553	27.239	1.674
900	5.173	34.554	27.302	1.764
1000	4.604	34.560	27.371	1.848
1003	4.597	34.559	27.372	1.850



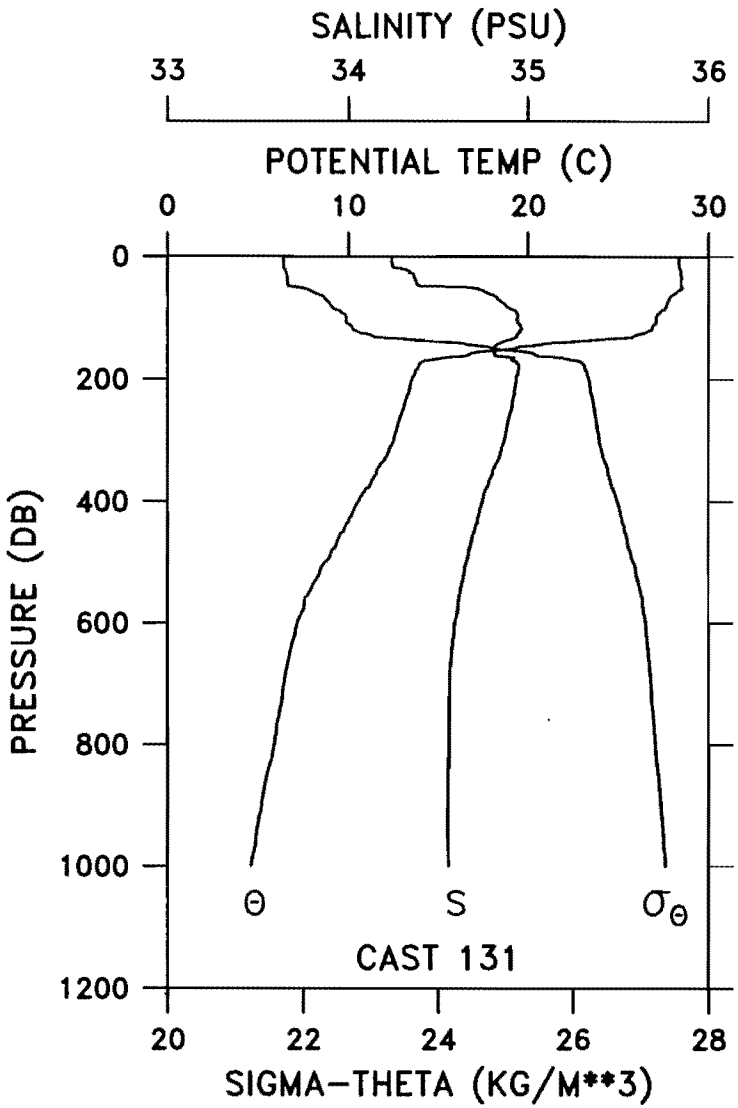
CAST GP6-97-KA-0111 DATE 07 OCT 97 TIME 0840 GMT
LAT 03 30.1N LONG 124 57.3W WEATHER 5 SEA STATE 2
BAROMETER 10 WIND DIR 267 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 8 DRY 24.8 WET 23.9 DEPTH 4536 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.741	33.756	21.219	0.000
10	28.738	33.753	21.217	0.066
20	28.917	33.978	21.327	0.131
30	29.047	34.126	21.394	0.195
40	28.947	34.156	21.451	0.259
50	28.857	34.236	21.540	0.322
60	28.664	34.639	21.907	0.383
70	28.561	34.658	21.955	0.442
80	28.293	34.746	22.110	0.500
90	27.776	34.837	22.347	0.557
100	27.592	34.871	22.433	0.611
110	26.634	34.956	22.803	0.664
120	25.986	34.952	23.003	0.714
130	23.900	34.895	23.593	0.761
140	18.871	34.821	24.918	0.798
150	15.836	34.847	25.668	0.826
160	15.405	34.841	25.760	0.849
170	14.423	34.922	26.038	0.871
180	14.053	34.946	26.135	0.890
190	13.760	34.938	26.190	0.909
200	13.732	34.944	26.201	0.928
250	12.892	34.906	26.343	1.018
300	12.274	34.862	26.430	1.103
350	11.344	34.789	26.549	1.184
400	10.726	34.753	26.633	1.260
450	9.937	34.695	26.725	1.333
500	9.198	34.667	26.826	1.402
550	8.438	34.645	26.929	1.466
600	7.738	34.617	27.013	1.525
650	7.210	34.596	27.071	1.581
700	6.726	34.576	27.123	1.634
750	6.287	34.567	27.174	1.685
800	5.884	34.559	27.219	1.734
900	5.272	34.556	27.291	1.826
1000	4.721	34.561	27.359	1.911
1003	4.690	34.559	27.361	1.914



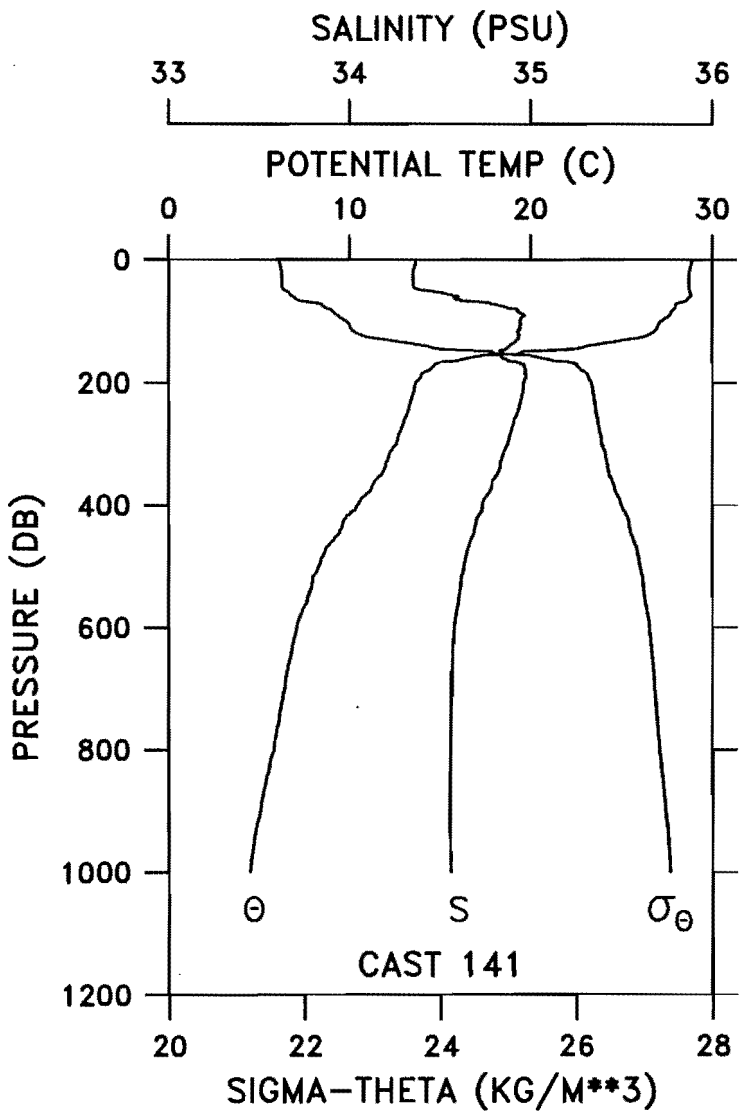
CAST GP6-97-KA-0121 DATE 07 OCT 97 TIME 1248 GMT
LAT 03 00.4N LONG 124 59.0W WEATHER 2 SEA STATE 2
BAROMETER 10 WIND DIR 149 T SPD 17 KT VISIBILITY 7
CLOUD 8 AMOUNT 8 DRY 27.0 WET 24.7 DEPTH 4444 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.597	33.703	21.226	0.000
10	28.599	33.702	21.225	0.066
20	28.797	33.927	21.328	0.131
30	28.851	34.211	21.523	0.194
40	28.741	34.393	21.697	0.256
50	28.652	34.574	21.862	0.317
60	28.603	34.638	21.927	0.376
70	28.546	34.691	21.985	0.435
80	27.834	34.857	22.343	0.491
90	27.630	34.877	22.425	0.546
100	27.335	34.926	22.557	0.600
110	26.699	34.953	22.780	0.652
120	25.912	34.942	23.019	0.702
130	22.911	34.874	23.865	0.747
140	17.549	34.798	25.229	0.780
150	15.276	34.916	25.847	0.804
160	14.492	34.950	26.045	0.825
170	14.163	34.952	26.116	0.845
180	13.901	34.963	26.180	0.864
190	13.763	34.963	26.209	0.883
200	13.630	34.953	26.229	0.901
250	12.993	34.913	26.328	0.991
300	12.551	34.880	26.389	1.078
350	11.864	34.824	26.479	1.161
400	11.029	34.769	26.591	1.241
450	9.976	34.715	26.734	1.314
500	9.002	34.666	26.856	1.382
550	8.142	34.634	26.966	1.443
600	7.449	34.606	27.045	1.501
650	6.983	34.589	27.097	1.555
700	6.552	34.572	27.142	1.607
750	6.167	34.566	27.188	1.657
800	5.882	34.562	27.221	1.705
900	5.238	34.556	27.295	1.797
1000	4.779	34.557	27.350	1.883
1005	4.751	34.557	27.353	1.887



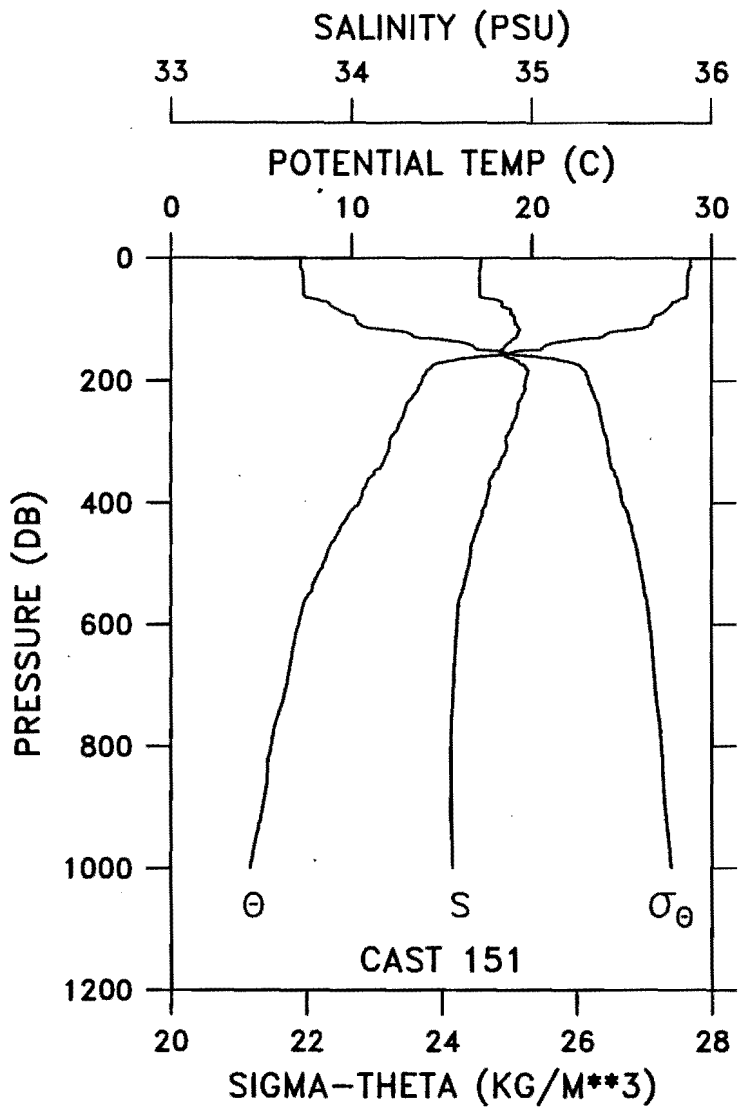
CAST GP6-97-KA-0131 DATE 07 OCT 97 TIME 1651 GMT
LAT 02 29.9N LONG 125 00.5W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 144 T SPD 14 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 27.8 WET 24.4 DEPTH 4536 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.368	34.243	21.708	0.000
10	28.372	34.241	21.705	0.061
20	28.442	34.299	21.725	0.122
30	28.488	34.363	21.758	0.183
40	28.489	34.377	21.768	0.243
50	28.583	34.648	21.941	0.303
60	28.120	34.782	22.194	0.361
70	27.828	34.836	22.329	0.417
80	27.666	34.880	22.415	0.472
90	27.341	34.936	22.562	0.526
100	27.129	34.941	22.634	0.578
110	27.023	34.955	22.678	0.631
120	26.761	34.959	22.765	0.682
130	25.814	34.939	23.047	0.733
140	21.620	34.847	24.209	0.776
150	19.199	34.807	24.824	0.810
160	16.701	34.816	25.444	0.838
170	14.231	34.924	26.080	0.861
180	13.893	34.950	26.172	0.880
190	13.707	34.945	26.207	0.899
200	13.533	34.934	26.234	0.917
250	13.021	34.907	26.317	1.007
300	12.512	34.869	26.389	1.094
350	11.581	34.804	26.516	1.177
400	10.562	34.747	26.657	1.254
450	9.736	34.702	26.764	1.325
500	8.727	34.657	26.893	1.391
550	7.822	34.621	27.003	1.450
600	7.163	34.593	27.076	1.506
650	6.765	34.575	27.117	1.559
700	6.433	34.565	27.153	1.610
750	6.163	34.562	27.186	1.660
800	5.881	34.561	27.221	1.708
900	5.188	34.555	27.301	1.800
1000	4.595	34.559	27.371	1.884
1003	4.568	34.559	27.374	1.886



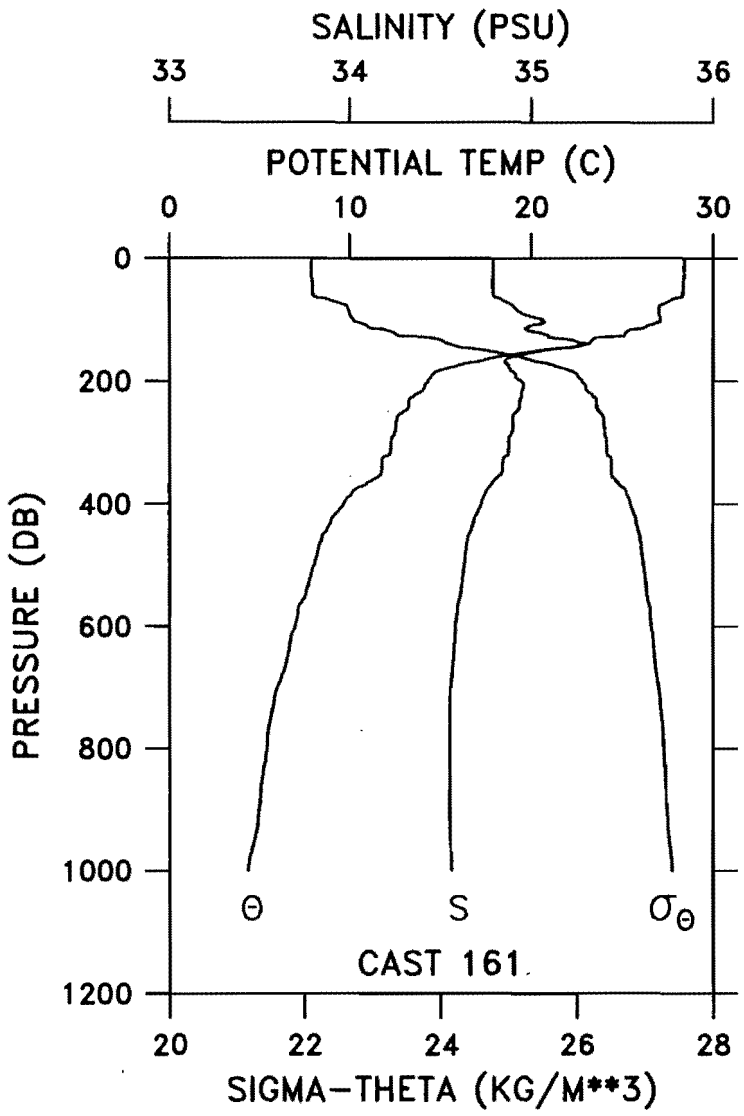
CAST GP6-97-KA-0141 DATE 07 OCT 97 TIME 2141 GMT
LAT 01 58.2N LONG 125 02.5W WEATHER 1 SEA STATE 2
BAROMETER 09 WIND DIR 142 T SPD 14 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.6 WET 24.0 DEPTH 4690 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.865	34.366	21.635	0.000
10	28.814	34.363	21.650	0.062
20	28.736	34.352	21.668	0.123
30	28.726	34.353	21.672	0.184
40	28.724	34.354	21.673	0.246
50	28.758	34.424	21.714	0.307
60	28.776	34.601	21.841	0.368
70	28.134	34.772	22.181	0.427
80	27.866	34.922	22.382	0.483
90	27.645	34.964	22.485	0.537
100	27.173	34.944	22.622	0.590
110	26.962	34.939	22.686	0.642
120	26.595	34.931	22.797	0.694
130	25.169	34.926	23.236	0.744
140	23.104	34.882	23.816	0.788
150	19.512	34.842	24.770	0.826
160	16.528	34.844	25.507	0.855
170	14.699	34.964	26.010	0.878
180	14.405	34.972	26.080	0.898
190	13.942	34.975	26.180	0.917
200	13.672	34.961	26.226	0.935
250	13.198	34.926	26.296	1.026
300	12.608	34.874	26.374	1.114
350	11.781	34.815	26.487	1.197
400	10.446	34.732	26.666	1.274
450	9.281	34.678	26.821	1.343
500	8.284	34.631	26.941	1.405
550	7.708	34.603	27.006	1.463
600	7.069	34.578	27.077	1.519
650	6.701	34.569	27.121	1.572
700	6.413	34.563	27.154	1.623
750	6.108	34.557	27.189	1.672
800	5.796	34.554	27.226	1.720
900	5.059	34.553	27.314	1.810
1000	4.490	34.559	27.383	1.892
1004	4.476	34.559	27.384	1.895



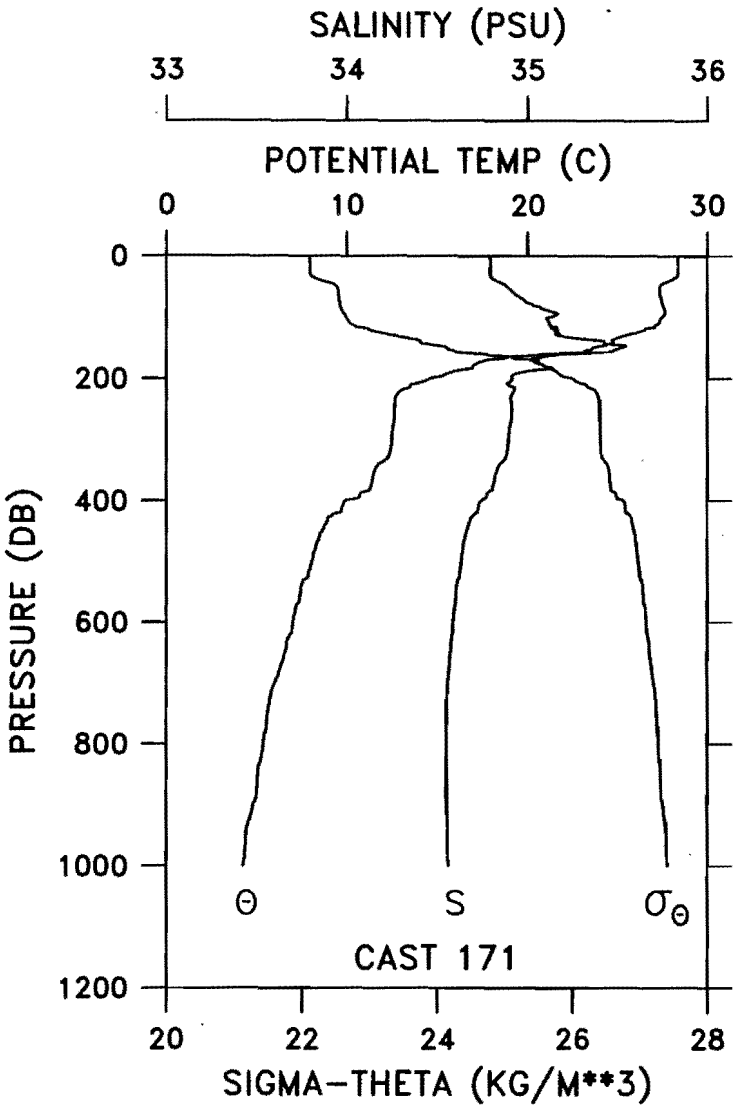
CAST GP6-97-KA-0151 DATE 08 OCT 97 TIME 0205 GMT
LAT 01 30.1N LONG 124 53.6W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 135 T SPD 10 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.5 WET 24.0 DEPTH 4751 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.815	34.720	21.918	0.000
10	28.816	34.715	21.913	0.059
20	28.712	34.710	21.944	0.118
30	28.678	34.709	21.955	0.177
40	28.667	34.709	21.959	0.235
50	28.657	34.709	21.962	0.294
60	28.645	34.709	21.966	0.353
70	28.052	34.828	22.251	0.410
80	27.624	34.847	22.404	0.466
90	27.187	34.881	22.571	0.519
100	26.729	34.901	22.731	0.571
110	26.483	34.917	22.821	0.623
120	24.480	34.924	23.442	0.671
130	23.545	34.909	23.708	0.715
140	20.993	34.863	24.393	0.753
150	19.960	34.827	24.642	0.788
160	17.270	34.855	25.340	0.818
170	15.029	34.926	25.910	0.842
180	14.364	34.965	26.083	0.862
190	14.093	34.973	26.147	0.882
200	13.910	34.964	26.179	0.901
250	12.926	34.918	26.344	0.991
300	12.115	34.856	26.456	1.076
350	11.240	34.788	26.567	1.157
400	10.386	34.743	26.685	1.231
450	9.239	34.684	26.832	1.299
500	8.420	34.650	26.936	1.362
550	7.653	34.606	27.016	1.420
600	7.071	34.584	27.081	1.475
650	6.698	34.572	27.123	1.527
700	6.393	34.564	27.157	1.578
750	5.911	34.554	27.211	1.627
800	5.525	34.549	27.256	1.674
900	5.064	34.549	27.310	1.763
1000	4.351	34.560	27.399	1.845
1003	4.333	34.559	27.400	1.847



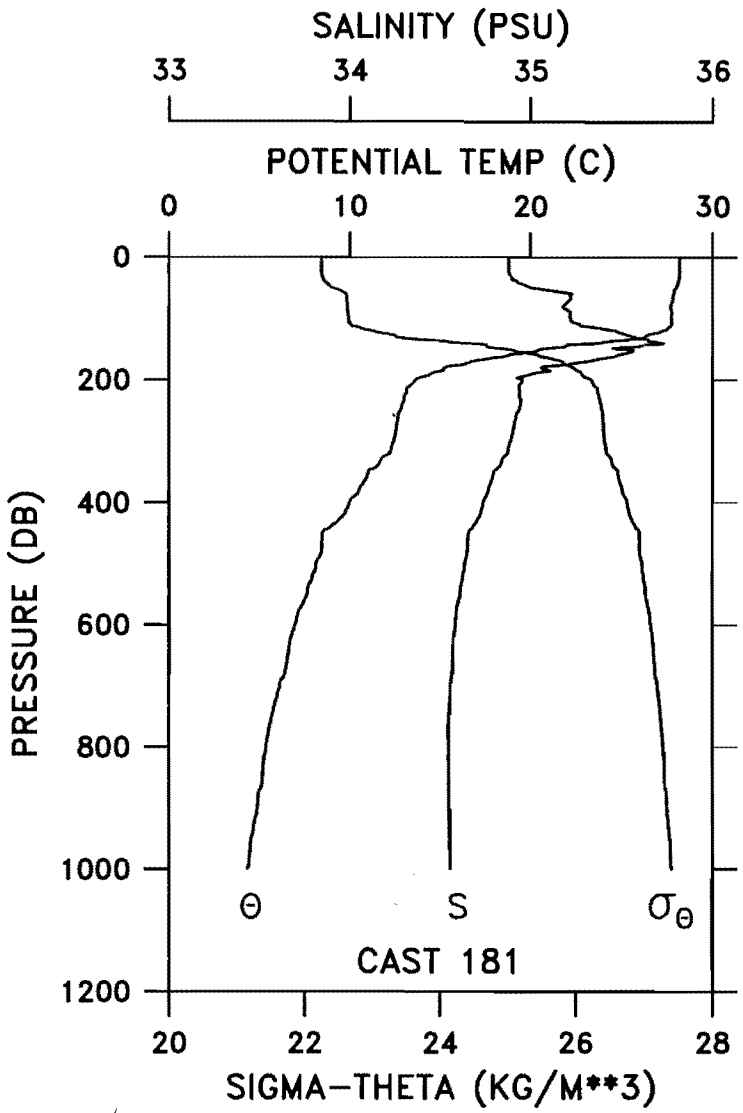
CAST GP6-97-KA-0161 DATE 08 OCT 97 TIME 0618 GMT
LAT 01 00.1N LONG 124 43.6W WEATHER 1 SEA STATE 2
BAROMETER 11 WIND DIR 105 T SPD 11 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.5 WET 24.0 DEPTH 4567 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.413	34.791	22.104	0.000
10	28.409	34.790	22.105	0.057
20	28.408	34.790	22.105	0.114
30	28.408	34.790	22.105	0.172
40	28.353	34.789	22.122	0.229
50	28.346	34.790	22.125	0.286
60	28.328	34.792	22.133	0.343
70	27.519	34.854	22.444	0.399
80	27.026	34.905	22.640	0.452
90	27.035	34.949	22.671	0.504
100	27.127	35.065	22.728	0.556
110	26.327	34.995	22.929	0.607
120	25.218	35.015	23.288	0.655
130	23.430	35.131	23.910	0.699
140	22.929	35.271	24.161	0.739
150	20.411	35.064	24.703	0.775
160	18.165	34.900	25.156	0.805
170	16.547	34.859	25.514	0.832
180	15.195	34.883	25.840	0.856
190	14.522	34.916	26.012	0.877
200	14.301	34.943	26.080	0.897
250	12.924	34.919	26.346	0.990
300	12.287	34.876	26.438	1.074
350	11.743	34.836	26.511	1.155
400	9.668	34.724	26.793	1.228
450	8.517	34.657	26.926	1.291
500	8.052	34.633	26.978	1.351
550	7.559	34.609	27.032	1.407
600	6.975	34.582	27.093	1.461
650	6.531	34.572	27.145	1.513
700	5.961	34.555	27.206	1.562
750	5.590	34.552	27.250	1.609
800	5.379	34.551	27.275	1.654
900	4.933	34.551	27.327	1.740
1000	4.346	34.559	27.399	1.822
1003	4.344	34.559	27.399	1.824



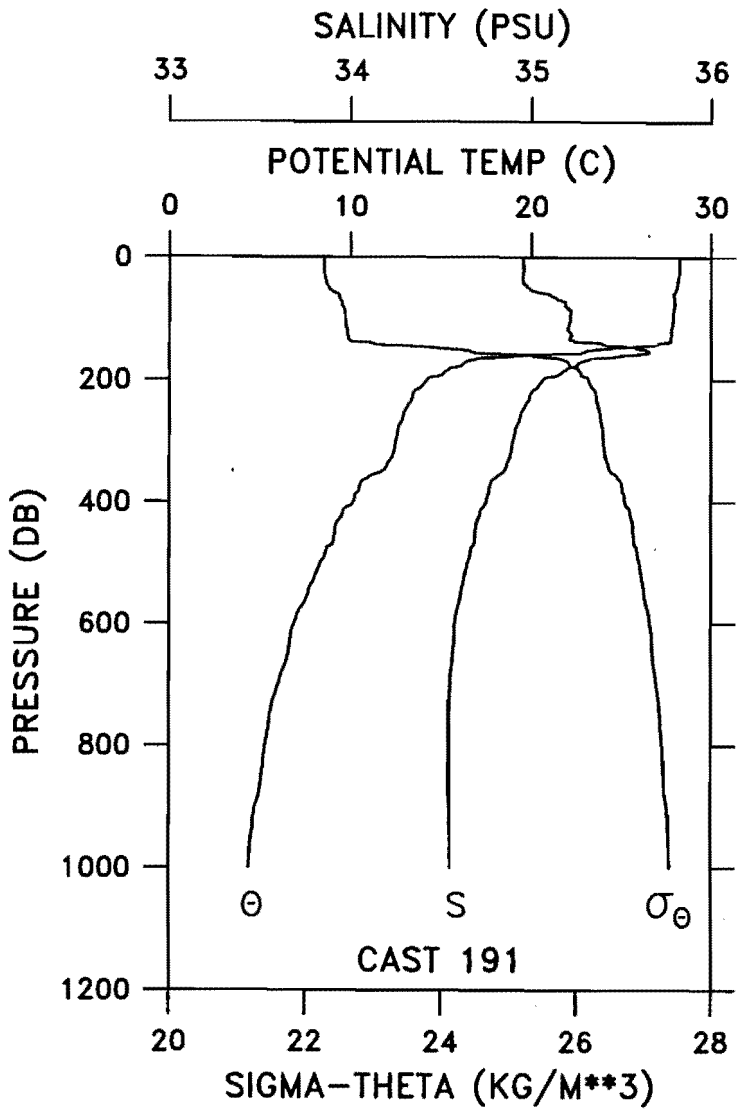
CAST GP6-97-KA-0171 DATE 08 OCT 97 TIME 1029 GMT
LAT 00 30.2N LONG 124 33.6W WEATHER 1 SEA STATE 2
BAROMETER 08 WIND DIR 095 T SPD 11 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.0 WET 24.0 DEPTH 4618 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.373	34.793	22.119	0.000
10	28.379	34.793	22.117	0.057
20	28.376	34.793	22.118	0.114
30	28.347	34.794	22.128	0.171
40	27.920	34.825	22.291	0.228
50	27.354	34.887	22.521	0.282
60	27.368	34.923	22.544	0.335
70	27.457	34.976	22.555	0.388
80	27.542	35.030	22.568	0.441
90	27.656	35.126	22.604	0.494
100	27.457	35.116	22.660	0.547
110	27.275	35.120	22.722	0.599
120	26.545	35.170	22.993	0.649
130	25.247	35.191	23.412	0.697
140	24.727	35.425	23.747	0.740
150	23.592	35.508	24.148	0.780
160	20.657	35.174	24.721	0.817
170	17.683	35.063	25.399	0.846
180	16.954	35.106	25.608	0.872
190	15.723	34.961	25.782	0.895
200	14.555	34.916	26.005	0.917
250	12.652	34.914	26.396	1.006
300	12.498	34.895	26.412	1.090
350	11.586	34.831	26.537	1.173
400	9.915	34.744	26.767	1.249
450	8.617	34.663	26.915	1.314
500	8.043	34.632	26.979	1.373
550	7.431	34.604	27.047	1.430
600	6.995	34.586	27.094	1.484
650	6.536	34.572	27.145	1.536
700	5.972	34.558	27.207	1.585
750	5.597	34.551	27.249	1.631
800	5.361	34.551	27.277	1.676
900	4.781	34.553	27.346	1.762
1000	4.229	34.563	27.414	1.841
1005	4.225	34.562	27.414	1.845



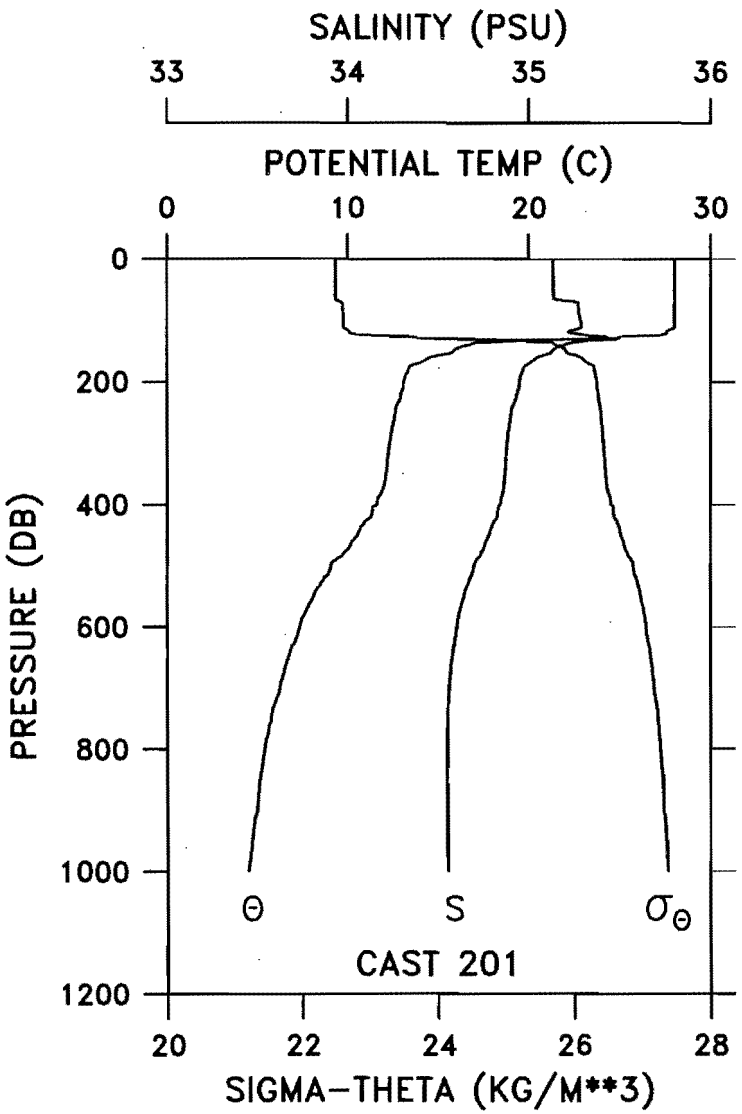
CAST GP6-97-KA-0181 DATE 08 OCT 97 TIME 1640 GMT
LAT 00 13.8S LONG 124 21.0W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 082 T SPD 13 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.9 WET 24.6 DEPTH 4653 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.175	34.881	22.250	0.000
10	28.176	34.880	22.249	0.056
20	28.177	34.880	22.249	0.112
30	28.160	34.890	22.261	0.167
40	28.101	34.926	22.308	0.223
50	27.970	35.014	22.417	0.278
60	27.855	35.228	22.616	0.331
70	27.796	35.215	22.625	0.384
80	27.695	35.181	22.632	0.436
90	27.759	35.219	22.640	0.489
100	27.728	35.222	22.652	0.541
110	27.727	35.269	22.689	0.593
120	27.220	35.470	23.004	0.644
130	26.291	35.574	23.378	0.691
140	23.429	35.730	24.364	0.732
150	20.510	35.538	25.038	0.765
160	18.729	35.471	25.451	0.792
170	16.715	35.294	25.809	0.816
180	15.255	35.066	25.967	0.838
190	14.490	35.005	26.087	0.858
200	13.652	34.957	26.227	0.878
250	12.792	34.932	26.383	0.965
300	12.438	34.890	26.419	1.050
350	11.025	34.798	26.614	1.130
400	9.993	34.740	26.750	1.203
450	8.503	34.658	26.929	1.268
500	8.156	34.638	26.966	1.328
550	7.664	34.613	27.020	1.386
600	6.973	34.586	27.097	1.440
650	6.573	34.572	27.140	1.492
700	6.117	34.560	27.190	1.542
750	5.671	34.550	27.239	1.589
800	5.373	34.549	27.274	1.635
900	4.883	34.551	27.333	1.721
1000	4.316	34.560	27.403	1.802
1500	2.787	34.610	27.593	2.140
2000	2.087	34.644	27.680	2.418
2500	1.678	34.665	27.728	2.661
3000	1.456	34.675	27.753	2.892
3003	1.457	34.675	27.752	2.893



CAST GP6-97-KA-0191 DATE 09 OCT 97 TIME 0546 GMT
LAT 00 59.7S LONG 124 35.7W WEATHER 1 SEA STATE 2
BAROMETER 11 WIND DIR 106 T SPD 13 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.1 WET 24.2 DEPTH 4634 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.247	34.957	22.284	0.000
10	28.244	34.956	22.284	0.055
20	28.247	34.957	22.283	0.111
30	28.214	34.953	22.292	0.166
40	28.153	34.955	22.313	0.222
50	28.092	34.986	22.356	0.277
60	27.920	35.100	22.498	0.331
70	27.989	35.168	22.527	0.385
80	27.956	35.194	22.557	0.438
90	27.921	35.221	22.589	0.491
100	27.897	35.217	22.593	0.544
110	27.862	35.210	22.600	0.597
120	27.797	35.212	22.623	0.650
130	27.772	35.217	22.634	0.703
140	27.076	35.398	22.996	0.755
150	23.606	35.642	24.245	0.799
160	19.414	35.500	25.298	0.832
170	16.388	35.280	25.874	0.856
180	15.565	35.207	26.006	0.877
190	15.089	35.158	26.075	0.897
200	14.219	35.062	26.190	0.917
250	13.006	34.950	26.353	1.006
300	12.493	34.896	26.414	1.092
350	11.728	34.847	26.522	1.175
400	10.146	34.749	26.731	1.247
450	9.182	34.691	26.847	1.313
500	8.353	34.647	26.944	1.376
550	7.701	34.612	27.014	1.434
600	6.907	34.578	27.099	1.488
650	6.577	34.568	27.136	1.540
700	6.013	34.554	27.199	1.590
750	5.548	34.547	27.251	1.636
800	5.292	34.545	27.281	1.681
900	4.734	34.549	27.348	1.768
1000	4.385	34.554	27.391	1.848
1004	4.377	34.554	27.392	1.851

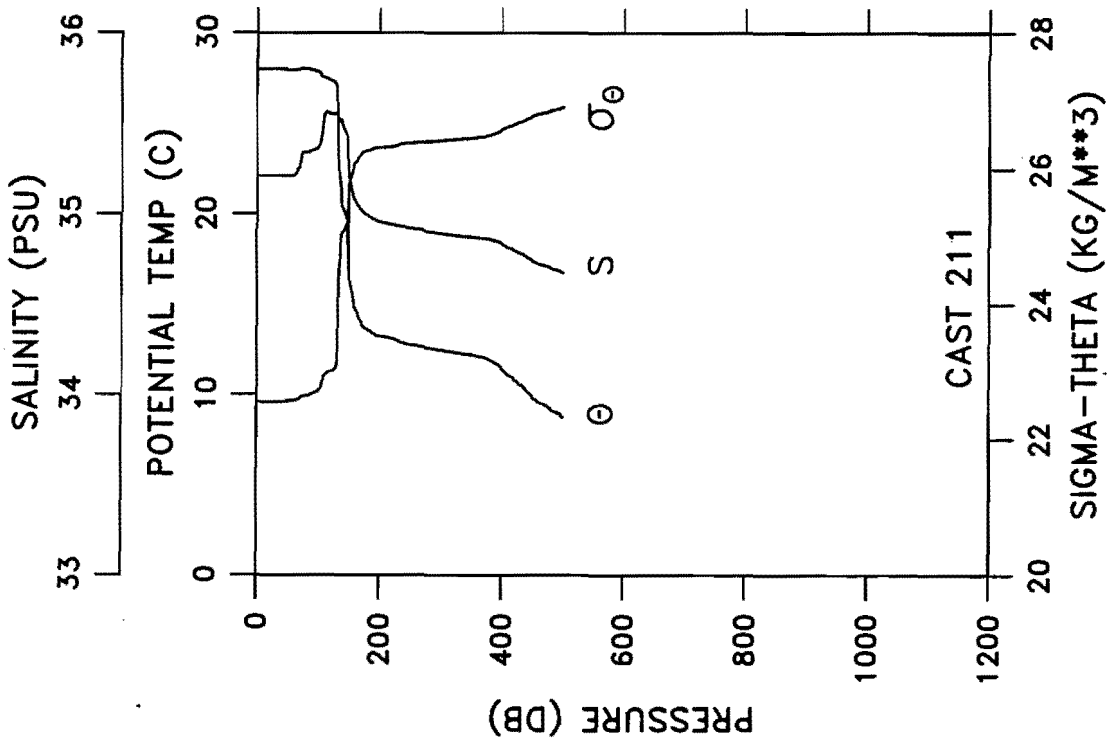


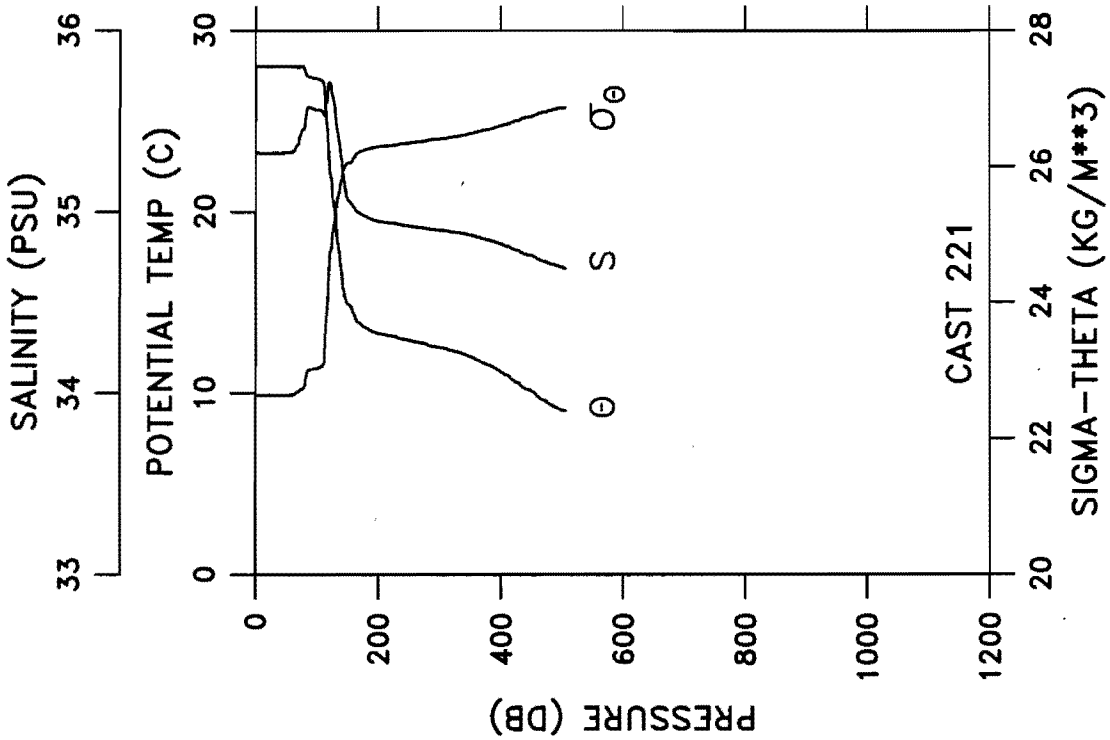
CAST GP6-97-KA-0201 DATE 09 OCT 97 TIME 1333 GMT
LAT 02 01.3S LONG 124 54.2W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 104 T SPD 11 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 26.9 WET 23.5 DEPTH 4721 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.018	35.134	22.492	0.000
10	28.023	35.132	22.489	0.053
20	28.024	35.132	22.489	0.107
30	28.031	35.134	22.488	0.161
40	28.029	35.134	22.488	0.214
50	28.025	35.133	22.489	0.268
60	28.032	35.137	22.489	0.322
70	28.077	35.267	22.572	0.375
80	28.015	35.274	22.598	0.428
90	28.011	35.278	22.603	0.481
100	28.026	35.287	22.604	0.533
110	28.021	35.291	22.609	0.586
120	27.596	35.227	22.699	0.639
130	22.970	35.490	24.316	0.685
140	16.737	35.191	25.724	0.712
150	15.852	35.125	25.878	0.734
160	14.542	35.044	26.107	0.755
170	13.877	35.000	26.214	0.774
180	13.346	34.967	26.298	0.791
190	13.180	34.954	26.321	0.809
200	13.079	34.947	26.337	0.826
250	12.622	34.903	26.394	0.912
300	12.311	34.880	26.437	0.996
350	12.115	34.868	26.465	1.079
400	11.593	34.842	26.543	1.160
450	10.550	34.780	26.685	1.236
500	9.081	34.697	26.868	1.304
550	8.123	34.642	26.975	1.366
600	7.357	34.603	27.056	1.422
650	6.715	34.577	27.125	1.476
700	6.242	34.560	27.174	1.526
750	5.748	34.553	27.231	1.574
800	5.396	34.547	27.270	1.620
900	4.979	34.548	27.320	1.707
1000	4.495	34.554	27.379	1.789
1005	4.474	34.554	27.381	1.793

CAST GP6-97-KA-0211 DATE 10 OCT 97 TIME 0647 GMT
LAT 02 59.7S LONG 124 41.9W WEATHER 1 SEA STATE 2
BAROMETER 12 WIND DIR 112 T SPD 18 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.5 WET 24.5 DEPTH 4573 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.009	35.215	22.556	0.000
10	28.016	35.214	22.552	0.053
20	28.017	35.214	22.553	0.106
30	28.018	35.215	22.553	0.159
40	27.994	35.213	22.559	0.212
50	27.945	35.211	22.573	0.265
60	27.944	35.216	22.577	0.317
70	27.997	35.277	22.606	0.370
80	28.019	35.343	22.649	0.423
90	27.939	35.355	22.683	0.475
100	27.845	35.372	22.727	0.527
110	27.525	35.547	22.963	0.577
120	27.377	35.555	23.017	0.627
130	26.963	35.560	23.153	0.675
140	20.276	35.483	25.058	0.710
150	16.576	35.210	25.776	0.738
160	14.709	35.071	26.091	0.759
170	13.978	35.019	26.207	0.778
180	13.590	34.990	26.266	0.797
190	13.354	34.970	26.298	0.814
200	13.222	34.955	26.314	0.832
250	12.754	34.920	26.380	0.919
300	12.462	34.891	26.416	1.004
350	12.200	34.873	26.452	1.087
400	11.358	34.833	26.581	1.169
450	9.885	34.743	26.771	1.242
500	8.744	34.677	26.906	1.307
501	8.739	34.676	26.906	1.308



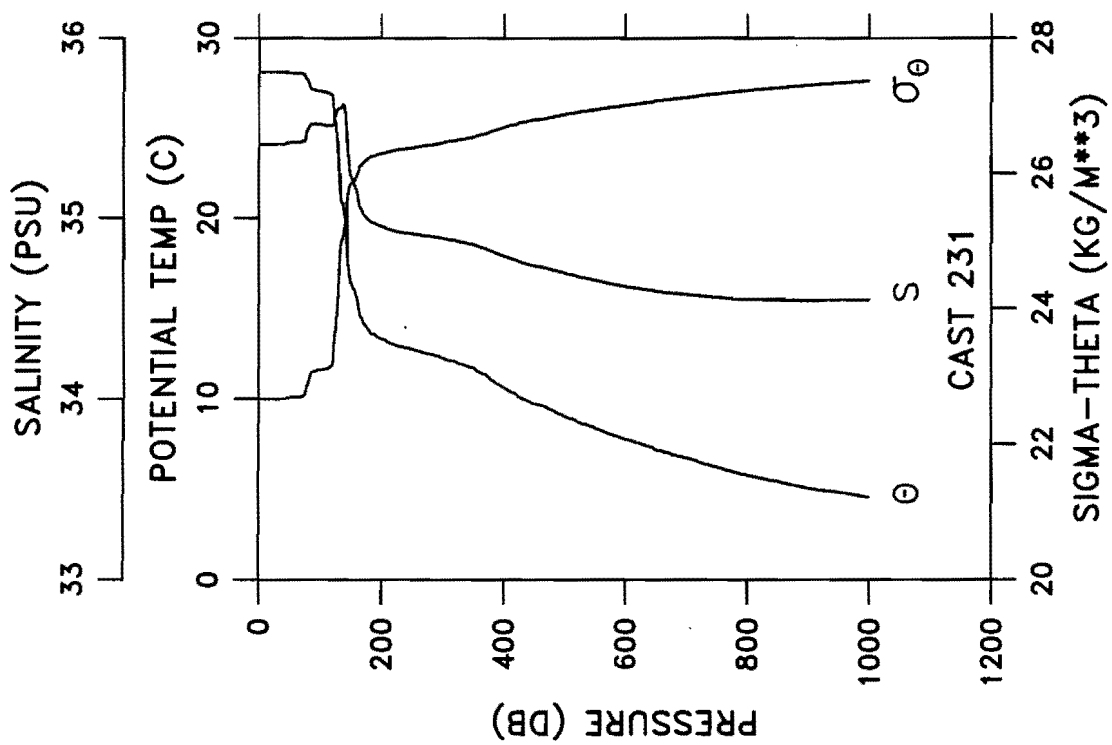


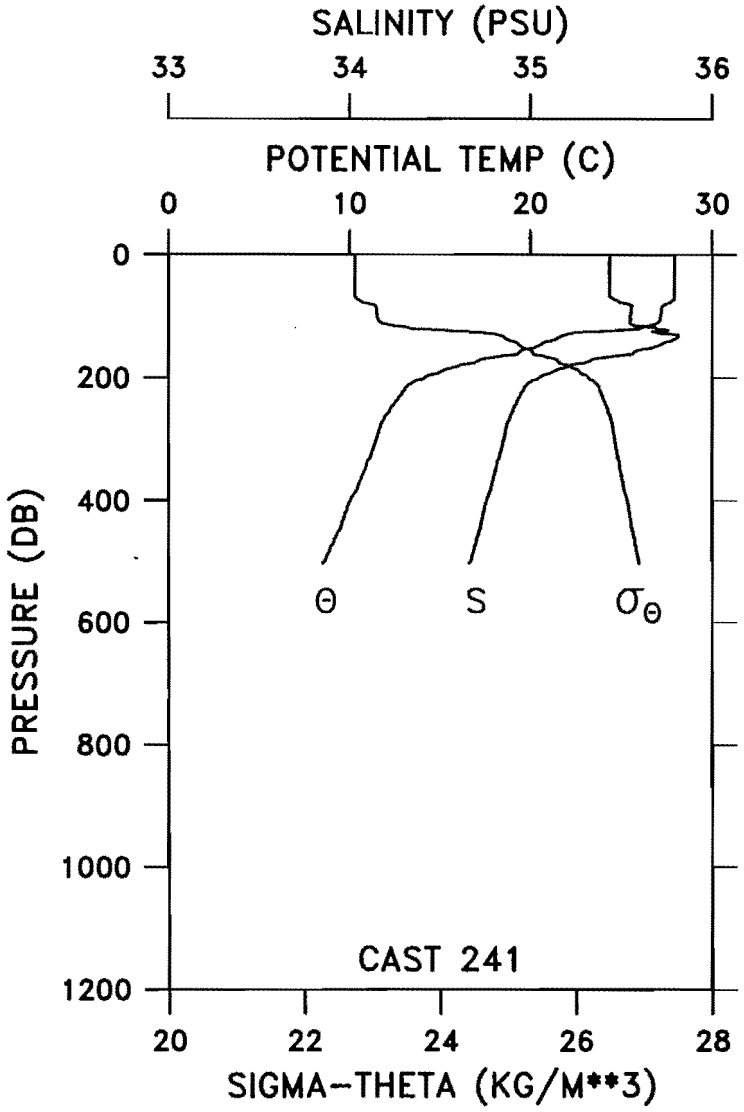
CAST GP6-97-KA-0221 DATE 10 OCT 97 TIME 1335 GMT
LAT 03 59.6S LONG 124 49.5W WEATHER 1 SEA STATE 2
BAROMETER 12 WIND DIR 103 T SPD 16 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 26.8 WET 23.6 DEPTH 4475 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.030	35.329	22.635	0.000
10	28.010	35.323	22.637	0.052
20	28.002	35.324	22.640	0.104
30	28.010	35.324	22.637	0.156
40	28.010	35.324	22.637	0.208
50	28.010	35.325	22.638	0.261
60	28.009	35.330	22.642	0.313
70	27.971	35.379	22.691	0.365
80	27.880	35.466	22.786	0.416
90	27.428	35.574	23.014	0.466
100	27.340	35.561	23.034	0.515
110	27.162	35.547	23.080	0.563
120	22.567	35.700	24.591	0.605
130	19.463	35.528	25.307	0.636
140	16.637	35.286	25.820	0.660
150	14.895	35.067	26.047	0.681
160	14.351	35.025	26.132	0.701
170	13.805	34.990	26.221	0.719
180	13.585	34.974	26.254	0.737
190	13.391	34.957	26.281	0.755
200	13.270	34.948	26.298	0.773
250	12.902	34.922	26.352	0.861
300	12.507	34.898	26.412	0.946
350	11.996	34.872	26.491	1.030
400	11.176	34.821	26.605	1.109
450	10.135	34.758	26.740	1.181
500	9.081	34.694	26.866	1.248
505	9.044	34.689	26.868	1.254

CAST GP6-97-KA-0231 DATE 11 OCT 97 TIME 0519 GMT
LAT 05 00.1S LONG 124 57.2W WEATHER 1 SEA STATE 2
BAROMETER 13 WIND DIR 104 T SPD 12 KT VISIBILITY 7
CLOUD 1 AMOUNT 8 DRY 27.4 WET 25.2 DEPTH 4532 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.108	35.410	22.670	0.000
10	28.114	35.409	22.667	0.052
20	28.116	35.409	22.667	0.104
30	28.114	35.411	22.668	0.155
40	28.104	35.413	22.673	0.207
50	28.066	35.420	22.691	0.259
60	28.054	35.420	22.695	0.311
70	28.035	35.425	22.705	0.363
80	27.633	35.496	22.890	0.414
90	27.134	35.523	23.071	0.462
100	27.055	35.522	23.096	0.511
110	26.985	35.513	23.111	0.559
120	26.757	35.518	23.187	0.606
130	23.129	35.608	24.359	0.649
140	20.008	35.596	25.215	0.679
150	16.389	35.234	25.839	0.704
160	15.498	35.145	25.974	0.725
170	14.215	35.020	26.158	0.745
180	13.744	34.987	26.231	0.764
190	13.527	34.971	26.264	0.782
200	13.312	34.954	26.295	0.800
250	12.754	34.912	26.374	0.886
300	12.246	34.885	26.453	0.970
350	11.710	34.854	26.531	1.051
400	10.626	34.789	26.679	1.127
450	9.717	34.734	26.793	1.197
500	9.049	34.696	26.872	1.262
550	8.386	34.656	26.945	1.325
600	7.770	34.620	27.010	1.384
650	7.185	34.595	27.074	1.440
700	6.741	34.578	27.122	1.493
750	6.233	34.562	27.177	1.544
800	5.792	34.550	27.224	1.593
900	5.073	34.543	27.305	1.683
1000	4.565	34.549	27.367	1.768
1002	4.555	34.549	27.368	1.769



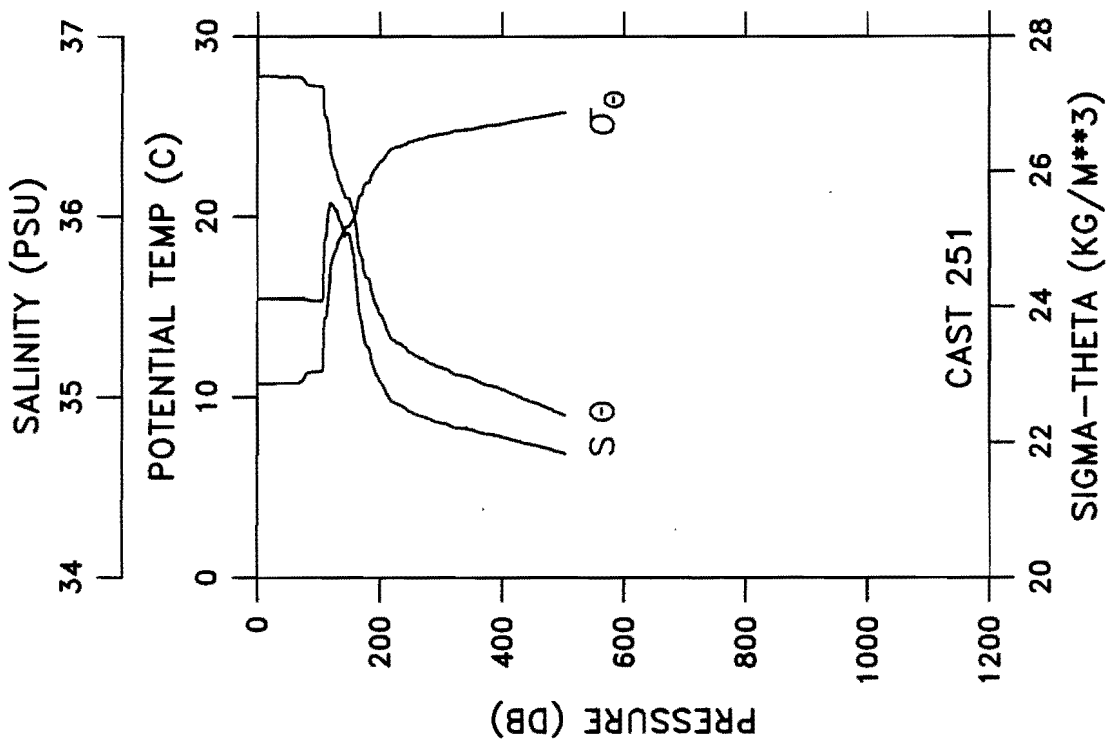


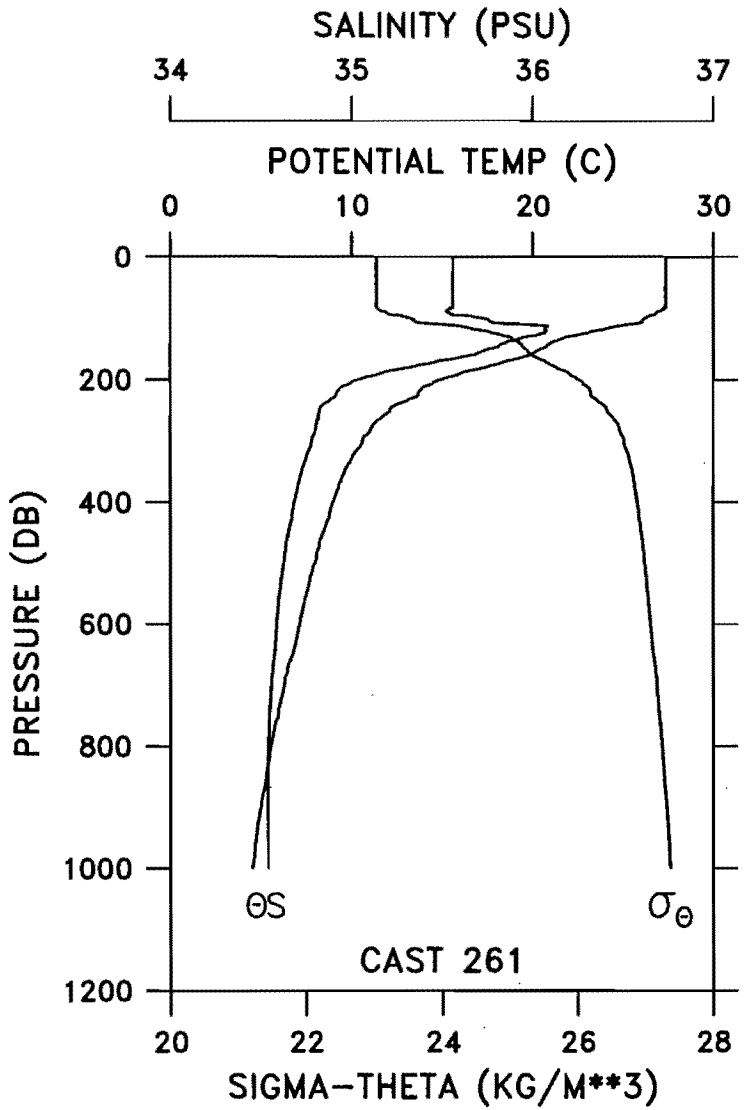
CAST GP6-97-KA-0241 DATE 11 OCT 97 TIME 1235 GMT
LAT 06 00.0S LONG 124 58.1W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 128 T SPD 15 KT VISIBILITY 7
CLOUD 1 AMOUNT 8 DRY 26.4 WET 22.7 DEPTH 4536 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.916	35.437	22.753	0.000
10	27.918	35.436	22.752	0.051
20	27.923	35.436	22.750	0.102
30	27.924	35.437	22.750	0.153
40	27.925	35.437	22.750	0.204
50	27.926	35.437	22.750	0.255
60	27.924	35.437	22.750	0.306
70	27.895	35.450	22.769	0.358
80	27.492	35.538	22.967	0.408
90	27.206	35.554	23.071	0.457
100	27.165	35.548	23.080	0.505
110	26.993	35.546	23.133	0.553
120	26.022	35.696	23.553	0.599
130	21.935	35.806	24.850	0.636
140	21.173	35.773	25.037	0.667
150	20.278	35.681	25.209	0.695
160	19.340	35.564	25.366	0.722
170	17.315	35.340	25.701	0.748
180	16.102	35.220	25.895	0.770
190	15.070	35.127	26.055	0.791
200	14.200	35.049	26.183	0.811
250	12.284	34.906	26.462	0.897
300	11.495	34.852	26.570	0.975
350	10.873	34.808	26.649	1.050
400	10.050	34.756	26.754	1.121
450	9.421	34.718	26.829	1.188
500	8.596	34.668	26.922	1.251
503	8.504	34.661	26.931	1.255

CAST GP6-97-KA-0251 DATE 11 OCT 97 TIME 1933 GMT
LAT 06 59.5S LONG 124 59.0W WEATHER 1 SEA STATE 3
BAROMETER 13 WIND DIR 134 T SPD 12 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 27.1 WET 23.4 DEPTH 4591 M

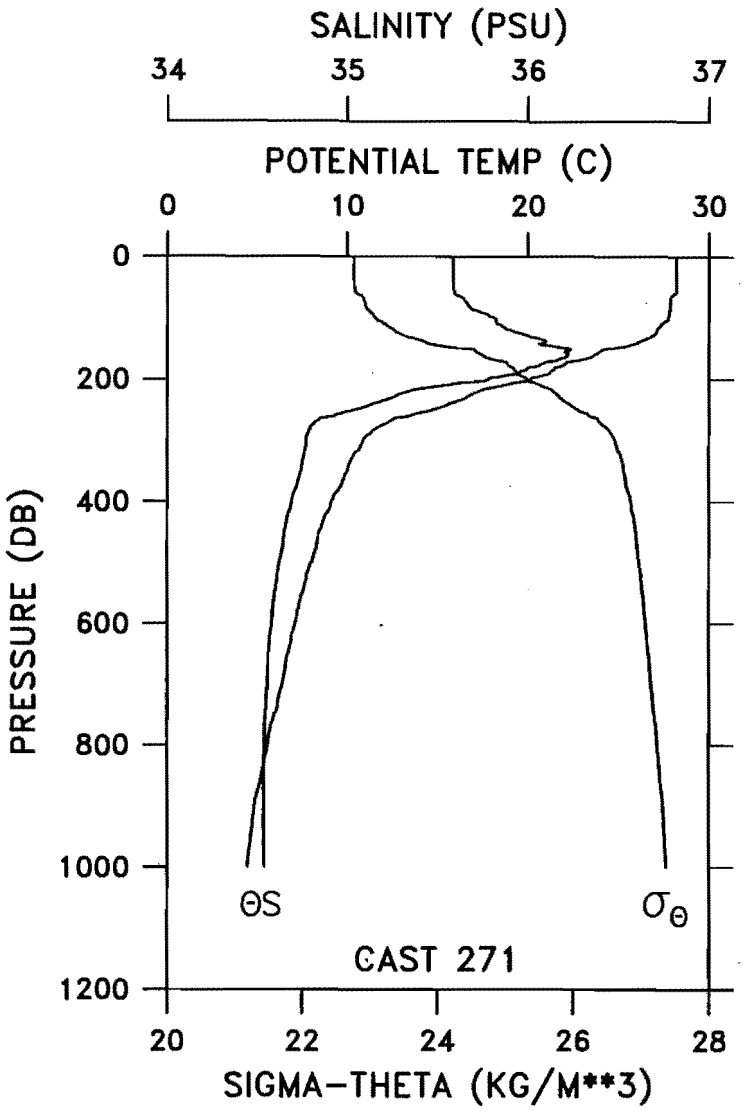
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.796	35.546	22.874	0.000
10	27.800	35.545	22.872	0.050
20	27.786	35.545	22.876	0.100
30	27.776	35.545	22.880	0.149
40	27.762	35.544	22.884	0.199
50	27.759	35.544	22.885	0.249
60	27.753	35.544	22.887	0.299
70	27.730	35.544	22.894	0.349
80	27.310	35.538	23.026	0.398
90	27.249	35.532	23.041	0.447
100	27.225	35.532	23.048	0.496
110	25.587	35.862	23.814	0.543
120	23.418	36.072	24.627	0.581
130	22.358	36.026	24.898	0.613
140	21.373	35.922	25.095	0.643
150	20.956	35.899	25.192	0.672
160	19.640	35.677	25.374	0.699
170	17.711	35.411	25.659	0.724
180	16.562	35.278	25.832	0.746
190	15.379	35.159	26.011	0.768
200	14.540	35.087	26.140	0.788
250	12.467	34.920	26.437	0.875
300	11.660	34.859	26.544	0.955
350	11.055	34.819	26.625	1.031
400	10.443	34.781	26.704	1.104
450	9.753	34.738	26.790	1.173
500	9.056	34.693	26.869	1.239
503	9.017	34.688	26.872	1.243





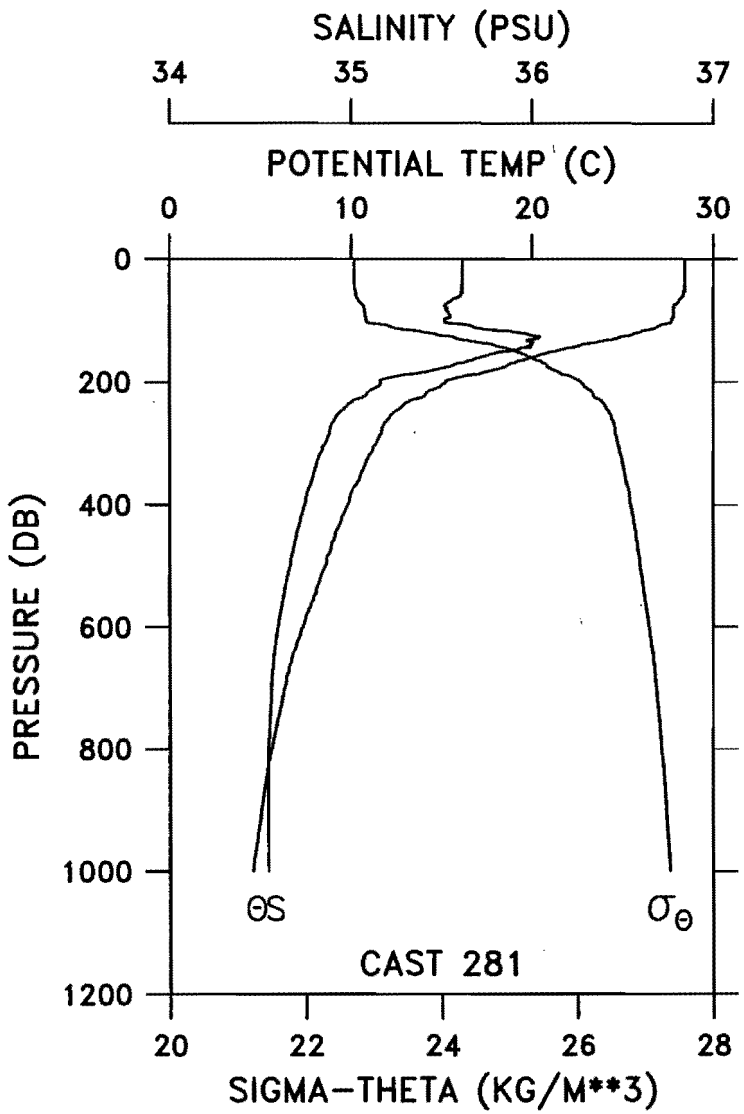
CAST GP6-97-KA-0261 DATE 12 OCT 97 TIME 0619 GMT
LAT 07 57.7S LONG 125 02.8W WEATHER 1 SEA STATE 3
BAROMETER 14 WIND DIR 092 T SPD 13 KT VISIBILITY 7
CLOUD 2 AMOUNT 8 DRY 26.6 WET 22.3 DEPTH 4493 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.352	35.560	23.028	0.000
10	27.353	35.557	23.026	0.048
20	27.351	35.557	23.027	0.097
30	27.356	35.557	23.025	0.145
40	27.351	35.557	23.027	0.194
50	27.346	35.556	23.027	0.242
60	27.351	35.557	23.027	0.291
70	27.352	35.558	23.027	0.339
80	27.345	35.557	23.028	0.388
90	26.830	35.530	23.174	0.436
100	26.183	35.725	23.525	0.482
110	25.313	35.962	23.974	0.525
120	23.527	36.075	24.597	0.561
130	21.819	35.953	24.994	0.593
140	21.034	35.846	25.131	0.623
150	20.426	35.755	25.226	0.651
160	19.785	35.656	25.320	0.679
170	18.486	35.473	25.514	0.705
180	17.317	35.323	25.687	0.729
190	15.960	35.157	25.878	0.752
200	14.916	35.036	26.019	0.773
250	12.103	34.824	26.433	0.865
300	10.595	34.781	26.678	0.941
350	9.620	34.726	26.802	1.009
400	8.964	34.685	26.877	1.073
450	8.443	34.653	26.934	1.135
500	7.990	34.626	26.982	1.193
550	7.532	34.601	27.030	1.250
600	7.147	34.587	27.073	1.305
650	6.762	34.575	27.117	1.358
700	6.302	34.559	27.165	1.409
750	5.940	34.548	27.204	1.458
800	5.529	34.541	27.249	1.505
900	4.984	34.539	27.312	1.594
1000	4.524	34.542	27.366	1.677
1004	4.510	34.542	27.367	1.681



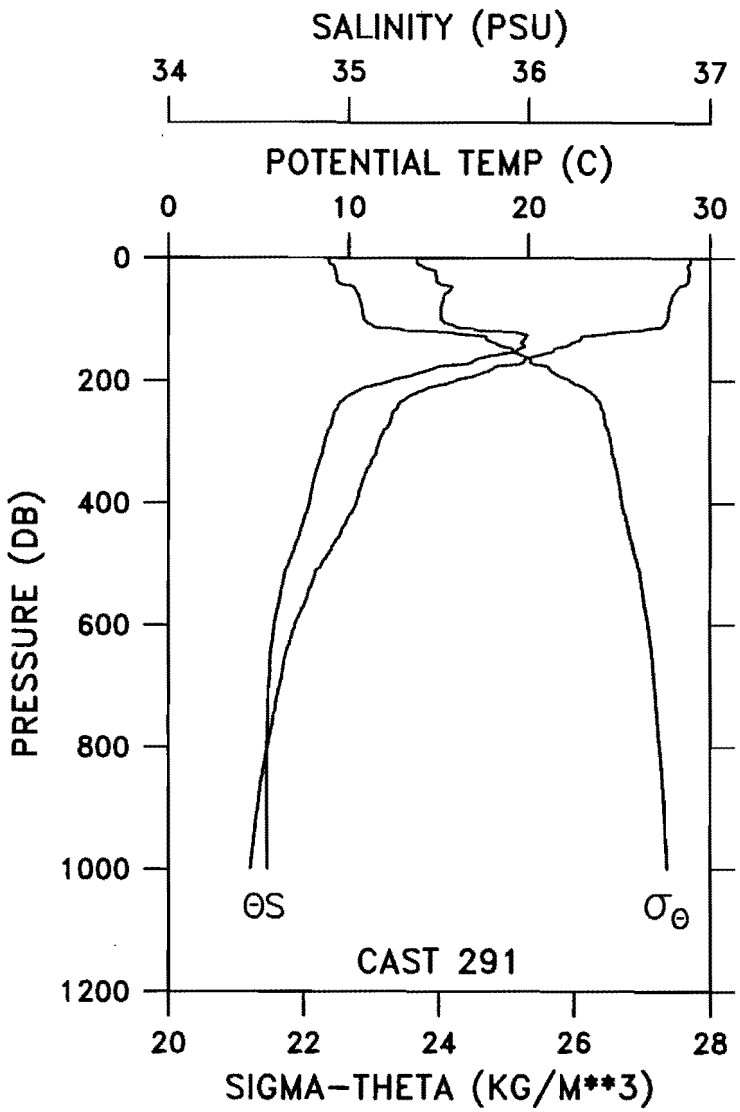
CAST GP6-97-KA-0271 DATE 17 OCT 97 TIME 1040 GMT
LAT 07 59.7S LONG 139 44.5W WEATHER 1 SEA STATE 2
BAROMETER 11 WIND DIR 154 T SPD 12 KT VISIBILITY 7
CLOUD AMOUNT DRY 27.6 WET 24.5 DEPTH 2840 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.202	35.587	22.772	0.000
10	28.198	35.586	22.773	0.051
20	28.205	35.585	22.770	0.102
30	28.199	35.586	22.772	0.152
40	28.190	35.587	22.776	0.203
50	28.175	35.591	22.784	0.254
60	28.116	35.595	22.807	0.305
70	27.888	35.648	22.921	0.355
80	27.867	35.670	22.944	0.405
90	27.821	35.736	23.009	0.454
100	27.748	35.819	23.095	0.502
110	27.359	35.842	23.239	0.550
120	27.122	35.914	23.369	0.596
130	26.815	36.015	23.543	0.641
140	26.077	36.091	23.835	0.683
150	24.328	36.237	24.482	0.722
160	23.644	36.220	24.673	0.757
170	22.506	36.137	24.940	0.789
180	21.581	36.013	25.106	0.819
190	21.193	35.949	25.165	0.848
200	20.131	35.779	25.323	0.876
250	14.695	35.041	26.071	0.992
300	10.920	34.772	26.613	1.076
350	10.039	34.744	26.746	1.147
400	9.143	34.690	26.852	1.213
450	8.449	34.649	26.930	1.275
500	8.051	34.622	26.970	1.334
550	7.526	34.596	27.026	1.391
600	7.114	34.581	27.073	1.446
650	6.714	34.562	27.113	1.499
700	6.386	34.556	27.152	1.551
750	5.934	34.544	27.201	1.600
800	5.568	34.540	27.243	1.647
900	4.836	34.536	27.326	1.736
1000	4.457	34.540	27.372	1.818
1005	4.432	34.540	27.374	1.822



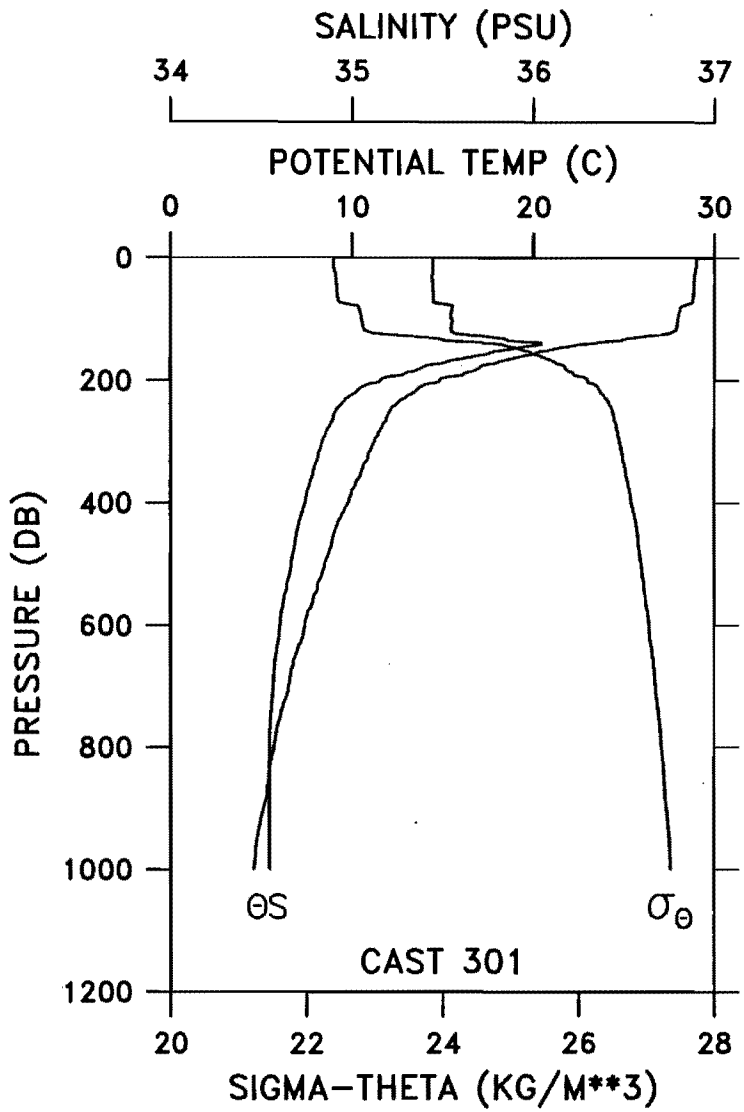
CAST GP6-97-KA-0281 DATE 17 OCT 97 TIME 1733 GMT
LAT 06 59.8S LONG 139 48.0W WEATHER 2 SEA STATE 2
BAROMETER 13 WIND DIR 079 T SPD 14 KT VISIBILITY 7
CLOUD 8 AMOUNT 8 DRY 27.0 WET 24.6 DEPTH 3929 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.435	35.616	22.717	0.000
10	28.440	35.615	22.715	0.051
20	28.440	35.615	22.715	0.103
30	28.442	35.615	22.714	0.154
40	28.428	35.614	22.718	0.205
50	28.394	35.611	22.727	0.257
60	28.317	35.600	22.744	0.308
70	28.015	35.538	22.797	0.359
80	27.802	35.530	22.860	0.410
90	27.800	35.547	22.873	0.460
100	27.671	35.517	22.893	0.510
110	26.949	35.673	23.243	0.559
120	25.747	35.945	23.828	0.603
130	24.530	36.009	24.249	0.642
140	22.650	35.992	24.788	0.676
150	21.191	35.855	25.094	0.707
160	19.918	35.707	25.324	0.735
170	18.751	35.579	25.529	0.761
180	17.903	35.459	25.649	0.786
190	16.235	35.256	25.892	0.809
200	15.207	35.164	26.054	0.829
250	12.317	34.933	26.476	0.919
300	11.375	34.856	26.595	0.997
350	10.528	34.792	26.699	1.070
400	9.780	34.742	26.788	1.139
450	9.107	34.698	26.865	1.204
500	8.565	34.663	26.923	1.266
550	7.938	34.626	26.990	1.326
600	7.340	34.595	27.052	1.382
650	6.729	34.571	27.118	1.436
700	6.318	34.559	27.163	1.487
750	5.937	34.551	27.206	1.536
800	5.597	34.541	27.241	1.583
900	5.033	34.540	27.307	1.672
1000	4.559	34.543	27.363	1.756
1004	4.557	34.543	27.363	1.760



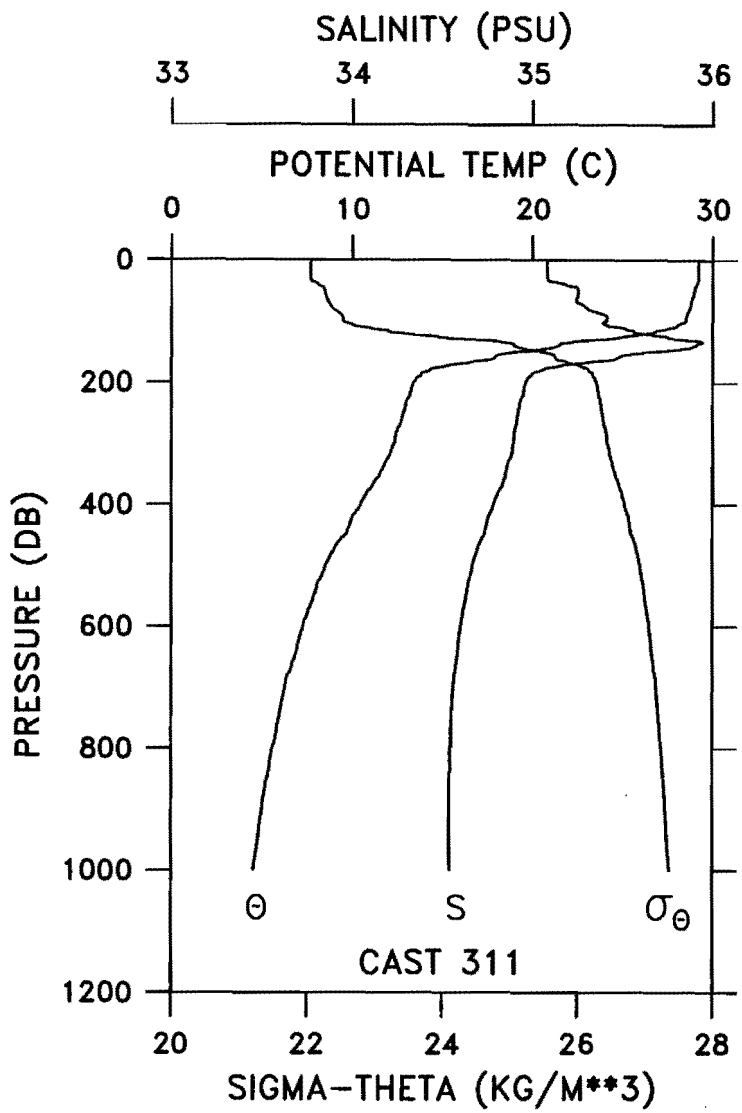
CAST GP6-97-KA-0291 DATE 18 OCT 97 TIME 0042 GMT
LAT 05 59.4S LONG 139 50.7W WEATHER 1 SEA STATE 2
BAROMETER 09 WIND DIR 108 T SPD 11 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 28.1 WET 25.4 DEPTH 3639 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.934	35.380	22.373	0.000
10	28.864	35.383	22.399	0.055
20	28.846	35.473	22.473	0.108
30	28.831	35.487	22.489	0.162
40	28.753	35.496	22.521	0.216
50	28.184	35.570	22.765	0.268
60	27.946	35.533	22.815	0.318
70	27.857	35.525	22.838	0.369
80	27.742	35.513	22.867	0.419
90	27.708	35.512	22.878	0.469
100	27.646	35.516	22.900	0.520
110	27.417	35.589	23.030	0.569
120	25.086	35.893	23.992	0.615
130	22.911	35.981	24.705	0.650
140	22.286	35.963	24.871	0.682
150	21.387	35.933	25.100	0.713
160	20.292	35.770	25.273	0.741
170	19.698	35.685	25.365	0.768
180	18.010	35.474	25.634	0.793
190	17.140	35.360	25.758	0.817
200	15.961	35.234	25.938	0.839
250	12.472	34.923	26.439	0.929
300	11.691	34.866	26.544	1.010
350	10.964	34.818	26.641	1.086
400	10.421	34.782	26.710	1.158
450	9.541	34.729	26.818	1.226
500	8.506	34.665	26.934	1.290
550	7.732	34.619	27.015	1.348
600	7.007	34.585	27.091	1.403
650	6.478	34.564	27.147	1.455
700	6.142	34.556	27.184	1.504
750	5.797	34.549	27.222	1.552
800	5.472	34.544	27.258	1.599
900	4.935	34.544	27.321	1.686
1000	4.534	34.548	27.369	1.769
1003	4.528	34.548	27.370	1.772



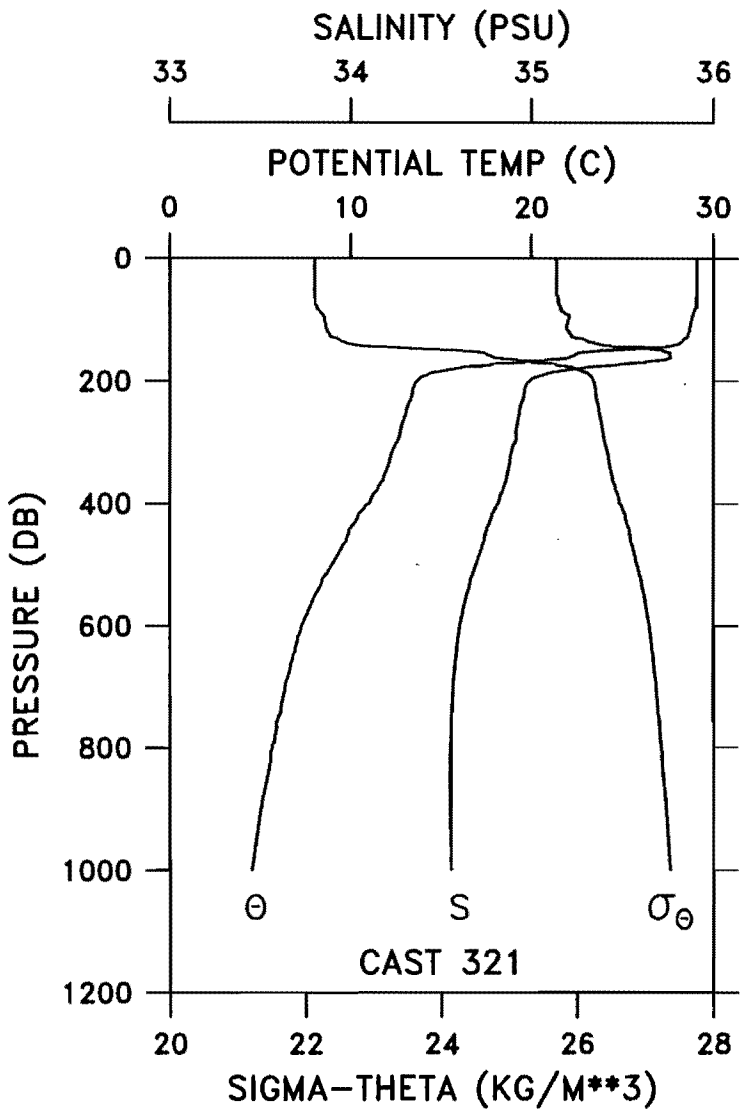
CAST GP6-97-KA-0301 DATE 18 OCT 97 TIME 0804 GMT
LAT 05 02.5S LONG 139 53.3W WEATHER 1 SEA STATE 2
BAROMETER 10 WIND DIR 112 T SPD 10 KT VISIBILITY 7
CLOUD 3 AMOUNT 8 DRY 27.4 WET 25.1 DEPTH 4322 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.010	35.445	22.397	0.000
10	29.006	35.443	22.397	0.054
20	28.969	35.442	22.409	0.109
30	28.911	35.441	22.427	0.163
40	28.880	35.442	22.439	0.217
50	28.862	35.444	22.446	0.271
60	28.844	35.447	22.454	0.325
70	28.794	35.447	22.471	0.379
80	28.173	35.553	22.756	0.432
90	28.060	35.545	22.787	0.483
100	28.016	35.551	22.806	0.534
110	27.948	35.547	22.826	0.585
120	27.736	35.551	22.898	0.635
130	25.510	35.796	23.788	0.682
140	22.965	36.045	24.738	0.720
150	20.904	35.846	25.166	0.750
160	19.389	35.678	25.440	0.777
170	18.064	35.513	25.650	0.802
180	16.975	35.376	25.810	0.825
190	16.136	35.280	25.933	0.847
200	14.813	35.154	26.133	0.867
250	12.062	34.910	26.508	0.952
300	11.237	34.838	26.607	1.029
350	10.486	34.785	26.701	1.102
400	9.798	34.741	26.784	1.171
450	9.021	34.695	26.876	1.236
500	8.509	34.665	26.933	1.298
550	7.936	34.626	26.990	1.357
600	7.420	34.602	27.047	1.414
650	6.896	34.579	27.102	1.468
700	6.499	34.564	27.144	1.520
750	6.045	34.552	27.193	1.570
800	5.688	34.545	27.232	1.617
900	5.106	34.543	27.301	1.708
1000	4.558	34.546	27.365	1.792
1500	2.926	34.600	27.572	2.142
2000	2.153	34.638	27.669	2.424
2500	1.693	34.667	27.729	2.671
3000	1.444	34.680	27.758	2.901
3006	1.441	34.680	27.758	2.903



CAST GP6-97-KA-0311 DATE 19 OCT 97 TIME 0734 GMT
LAT 03 59.8S LONG 139 54.5W WEATHER 5 SEA STATE 3
BAROMETER 11 WIND DIR 122 T SPD 21 KT VISIBILITY 6
CLOUD 8 AMOUNT 8 DRY 27.8 WET 25.2 DEPTH 4506 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.217	35.081	22.054	0.000
10	29.222	35.081	22.052	0.058
20	29.223	35.081	22.053	0.115
30	29.220	35.083	22.055	0.173
40	29.111	35.186	22.169	0.230
50	28.988	35.253	22.260	0.287
60	28.904	35.247	22.284	0.342
70	28.797	35.257	22.328	0.398
80	28.720	35.309	22.392	0.453
90	28.577	35.406	22.512	0.507
100	28.477	35.400	22.541	0.561
110	27.682	35.499	22.876	0.613
120	26.159	35.630	23.461	0.660
130	23.329	35.866	24.497	0.701
140	21.376	35.897	25.075	0.732
150	18.979	35.630	25.509	0.759
160	17.818	35.465	25.674	0.783
170	15.586	35.189	25.988	0.806
180	14.296	35.048	26.162	0.826
190	13.684	34.984	26.241	0.844
200	13.392	34.962	26.284	0.862
250	12.836	34.918	26.363	0.950
300	12.315	34.893	26.446	1.034
350	11.533	34.849	26.561	1.114
400	10.480	34.783	26.700	1.189
450	9.603	34.730	26.808	1.257
500	8.524	34.667	26.933	1.320
550	7.896	34.633	27.001	1.379
600	7.300	34.603	27.064	1.435
650	6.847	34.583	27.111	1.489
700	6.295	34.562	27.169	1.540
750	5.951	34.552	27.205	1.589
800	5.578	34.545	27.246	1.636
900	5.029	34.539	27.307	1.725
1000	4.536	34.542	27.364	1.809
1004	4.529	34.542	27.365	1.812

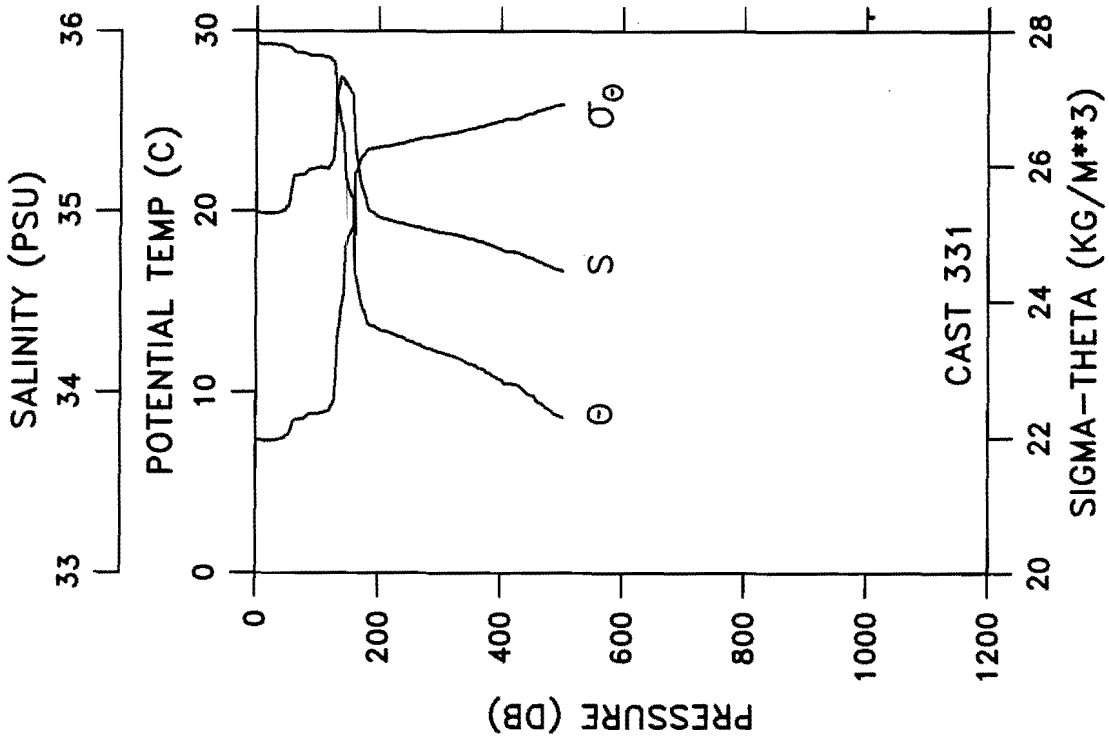


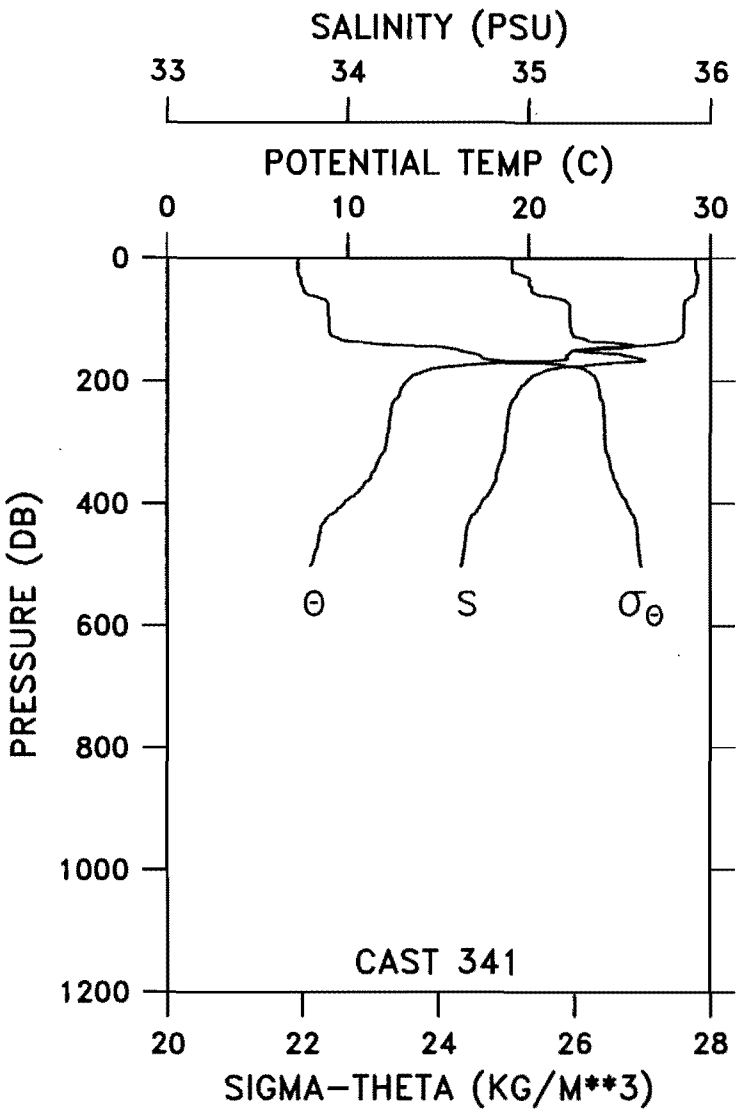
CAST GP6-97-KA-0321 DATE 19 OCT 97 TIME 1509 GMT
LAT 02 59.5S LONG 139 55.8W WEATHER 5 SEA STATE 3
BAROMETER 09 WIND DIR 101 T SPD 12 KT VISIBILITY 6
CLOUD 8 AMOUNT 8 DRY 28.0 WET 24.8 DEPTH 4291 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.105	35.136	22.134	0.000
10	29.111	35.139	22.133	0.057
20	29.105	35.140	22.136	0.114
30	29.103	35.140	22.137	0.171
40	29.105	35.140	22.136	0.228
50	29.105	35.140	22.136	0.285
60	29.101	35.144	22.141	0.342
70	29.097	35.147	22.145	0.399
80	29.050	35.161	22.171	0.456
90	28.906	35.189	22.239	0.512
100	28.805	35.204	22.284	0.568
110	28.733	35.193	22.301	0.624
120	28.663	35.207	22.334	0.680
130	28.429	35.280	22.466	0.735
140	28.003	35.378	22.680	0.789
150	23.797	35.729	24.256	0.835
160	22.144	35.767	24.761	0.869
170	19.181	35.577	25.417	0.898
180	15.713	35.230	25.991	0.920
190	14.227	35.059	26.186	0.940
200	13.670	34.987	26.247	0.958
250	13.066	34.932	26.328	1.048
300	12.532	34.907	26.415	1.134
350	11.904	34.867	26.505	1.216
400	11.005	34.814	26.630	1.294
450	9.873	34.744	26.774	1.365
500	8.948	34.691	26.885	1.431
550	8.021	34.639	26.987	1.491
600	7.275	34.601	27.067	1.547
650	6.787	34.581	27.118	1.601
700	6.341	34.565	27.165	1.652
750	5.965	34.558	27.208	1.701
800	5.632	34.551	27.244	1.748
900	4.998	34.551	27.320	1.837
1000	4.513	34.557	27.379	1.920
1001	4.512	34.556	27.379	1.921

CAST GP6-97-KA-0331 DATE 20 OCT 97 TIME 0555 GMT
LAT 02 00.4S LONG 139 58.3W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 116 T SPD 18 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 28.5 WET 25.3 DEPTH 4318 M

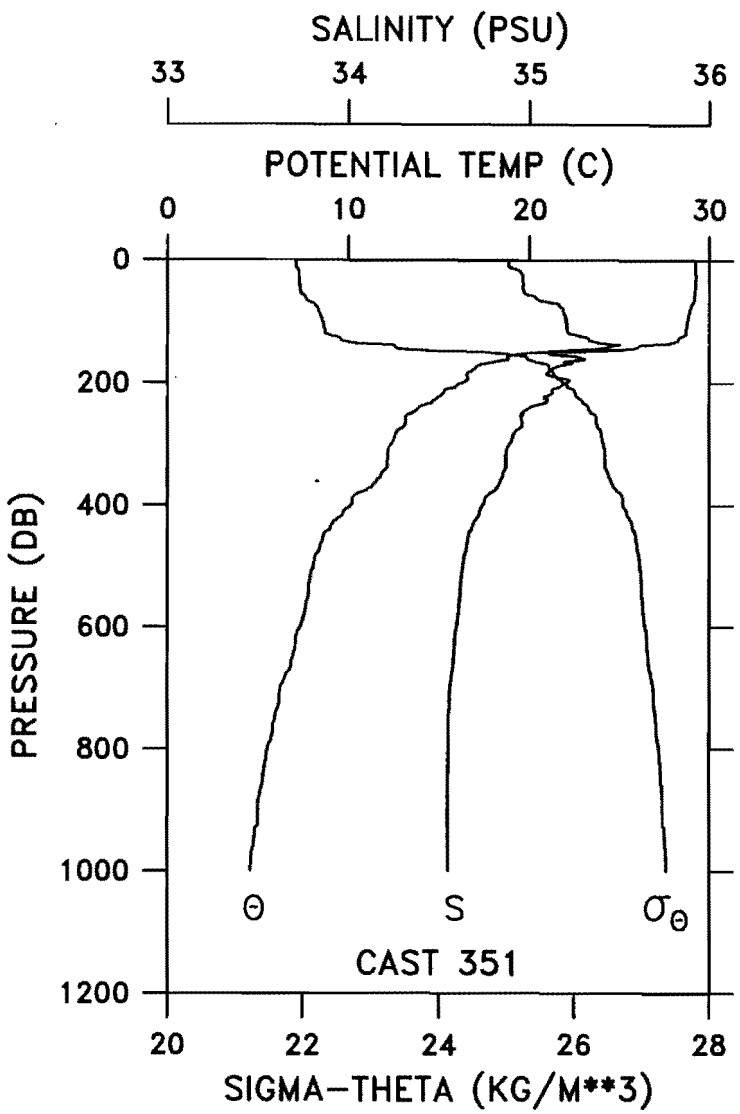
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.289	34.990	21.962	0.000
10	29.280	34.989	21.965	0.059
20	29.290	34.989	21.961	0.117
30	29.273	34.989	21.967	0.176
40	29.232	34.997	21.986	0.234
50	29.129	35.026	22.043	0.292
60	28.909	35.182	22.233	0.350
70	28.816	35.200	22.278	0.406
80	28.757	35.208	22.304	0.461
90	28.645	35.231	22.359	0.517
100	28.647	35.239	22.363	0.572
110	28.601	35.238	22.378	0.627
120	28.508	35.252	22.420	0.682
130	27.271	35.485	22.999	0.735
140	24.690	35.741	23.997	0.778
150	21.260	35.690	24.950	0.813
160	18.606	35.472	25.483	0.842
170	15.016	35.158	26.091	0.863
180	14.000	35.043	26.221	0.882
190	13.644	34.992	26.256	0.901
200	13.484	34.968	26.270	0.919
250	12.829	34.920	26.366	1.007
300	12.208	34.883	26.459	1.091
350	11.568	34.848	26.553	1.171
400	10.706	34.792	26.667	1.247
450	9.850	34.742	26.777	1.318
500	8.688	34.673	26.912	1.382
502	8.651	34.669	26.914	1.384





CAST GP6-97-KA-0341 DATE 20 OCT 97 TIME 1319 GMT
LAT 01 00.2S LONG 139 57.2W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 116 T SPD 15 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 28.0 WET 25.5 DEPTH 4242 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.196	34.907	21.931	0.000
10	29.198	34.907	21.930	0.059
20	29.210	34.909	21.928	0.118
30	29.292	34.979	21.953	0.176
40	29.271	35.003	21.978	0.235
50	29.187	35.018	22.017	0.293
60	29.068	35.055	22.085	0.351
70	28.595	35.204	22.354	0.407
80	28.559	35.224	22.381	0.462
90	28.549	35.223	22.384	0.517
100	28.538	35.224	22.388	0.572
110	28.528	35.227	22.394	0.627
120	28.518	35.234	22.403	0.682
130	28.295	35.295	22.522	0.736
140	27.048	35.554	23.122	0.788
150	22.343	35.240	24.305	0.829
160	22.073	35.564	24.627	0.864
170	18.328	35.469	25.551	0.895
180	14.670	35.125	26.141	0.917
190	13.668	35.030	26.280	0.935
200	13.286	34.990	26.328	0.953
250	12.390	34.889	26.428	1.038
300	12.172	34.870	26.456	1.120
350	11.376	34.824	26.570	1.201
400	9.811	34.737	26.779	1.274
450	8.452	34.654	26.933	1.336
500	8.012	34.628	26.980	1.396
502	7.961	34.625	26.985	1.398

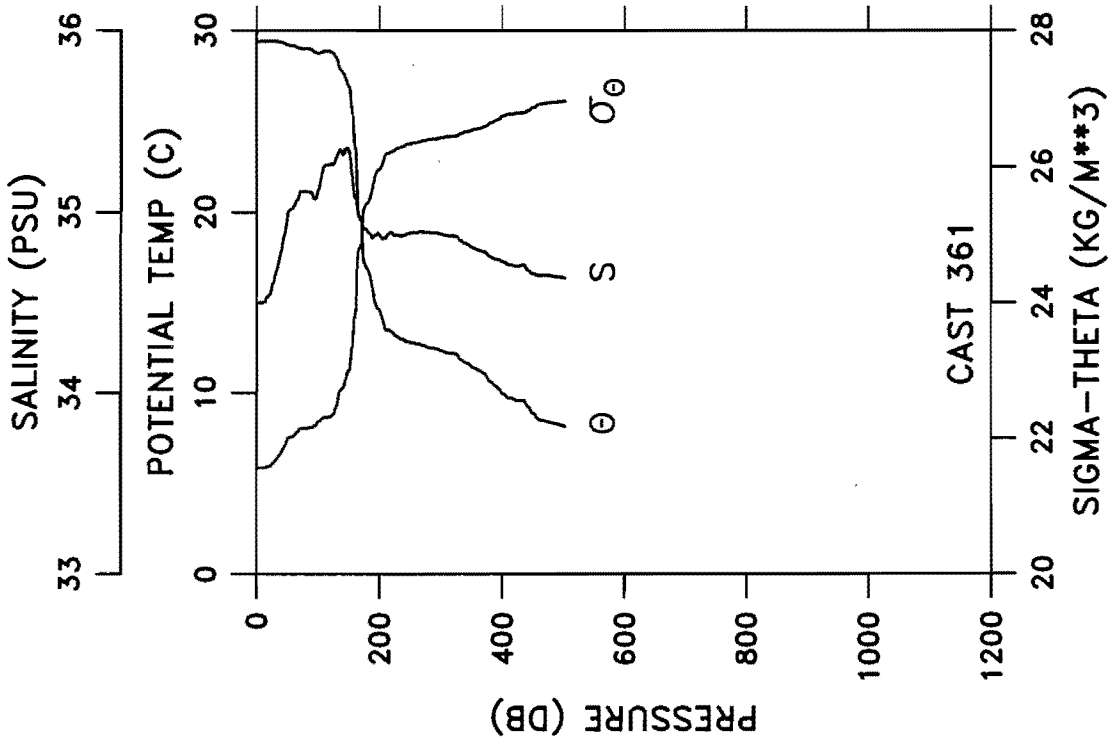


CAST GP6-97-KA-0351 DATE 21 OCT 97 TIME 0829 GMT
LAT 00 04.6N LONG 140 02.5W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 135 T SPD 13 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 26.8 WET 24.9 DEPTH 4315 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.233	34.885	21.902	0.000
10	29.235	34.886	21.902	0.059
20	29.245	34.952	21.948	0.118
30	29.251	34.961	21.953	0.177
40	29.241	34.965	21.959	0.235
50	29.216	34.967	21.969	0.294
60	29.160	35.033	22.038	0.353
70	29.064	35.151	22.159	0.410
80	28.930	35.186	22.229	0.467
90	28.842	35.199	22.268	0.523
100	28.779	35.203	22.292	0.579
110	28.732	35.207	22.311	0.635
120	28.707	35.230	22.337	0.690
130	28.270	35.332	22.558	0.744
140	26.064	35.449	23.354	0.795
150	20.545	35.086	24.684	0.837
160	18.808	35.302	25.302	0.866
170	17.278	35.199	25.601	0.892
180	16.811	35.113	25.647	0.916
190	16.572	35.154	25.735	0.940
200	16.273	35.199	25.839	0.962
250	13.396	34.962	26.283	1.062
300	12.354	34.887	26.433	1.148
350	11.806	34.851	26.511	1.230
400	10.116	34.738	26.728	1.305
450	8.652	34.663	26.910	1.370
500	8.082	34.633	26.974	1.430
550	7.797	34.617	27.004	1.488
600	7.377	34.598	27.049	1.544
650	6.942	34.583	27.098	1.598
700	6.240	34.562	27.176	1.649
750	5.970	34.554	27.205	1.698
800	5.541	34.554	27.258	1.745
900	5.024	34.549	27.315	1.834
1000	4.600	34.553	27.366	1.917
1500	2.890	34.604	27.579	2.264
2000	2.157	34.640	27.671	2.539
2500	1.688	34.664	27.727	2.783
3000	1.479	34.675	27.751	3.014
3008	1.470	34.675	27.751	3.018

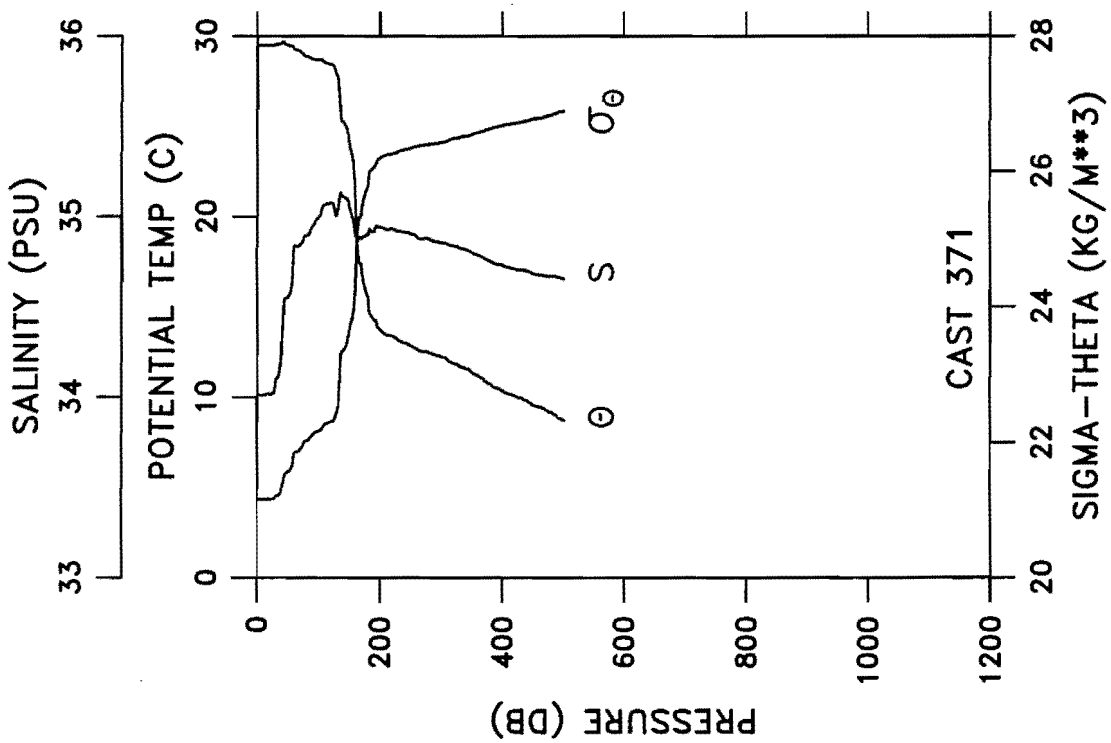
CAST GP6-97-KA-0361 DATE 22 OCT 97 TIME 0747 GMT
LAT 01 02.3N LONG 140 40.0W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 110 T SPD 14 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 27.4 WET 26.1 DEPTH 4444 M

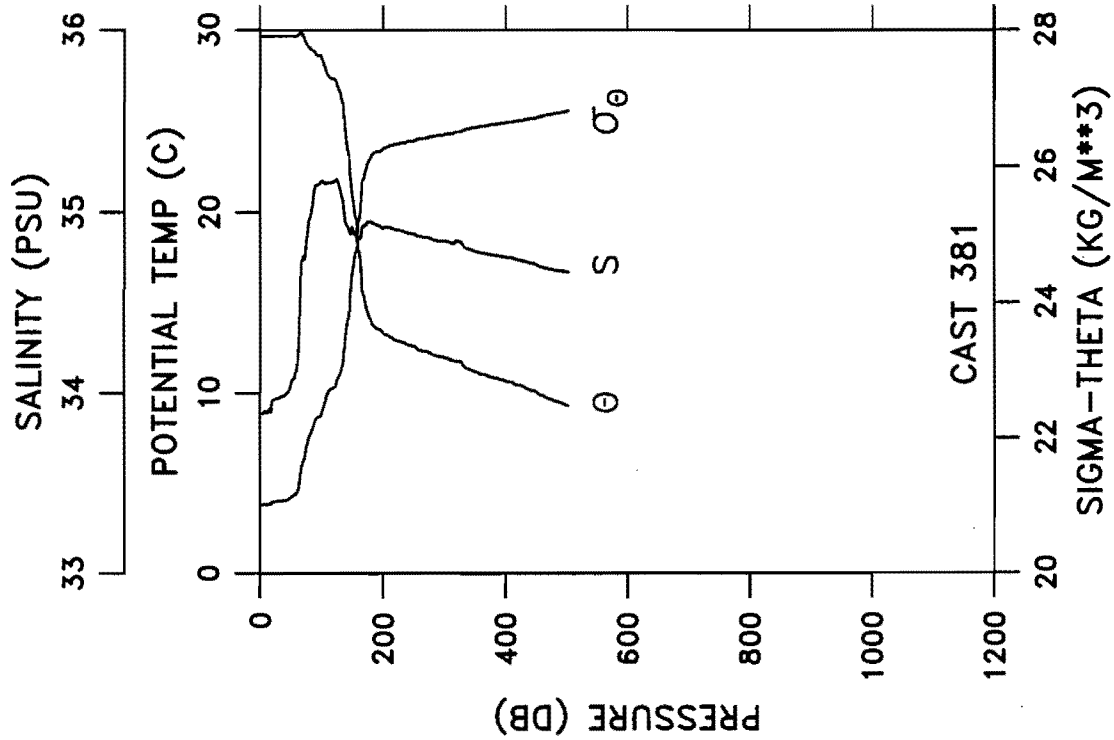
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.392	34.501	21.561	0.000
10	29.391	34.500	21.560	0.062
20	29.413	34.539	21.582	0.125
30	29.412	34.649	21.665	0.187
40	29.356	34.781	21.783	0.248
50	29.204	34.968	21.974	0.307
60	29.164	35.026	22.031	0.365
70	29.032	35.109	22.138	0.423
80	29.004	35.114	22.150	0.480
90	28.954	35.109	22.163	0.537
100	28.733	35.117	22.243	0.594
110	28.848	35.254	22.308	0.650
120	28.833	35.263	22.320	0.706
130	28.456	35.300	22.473	0.761
140	27.671	35.314	22.740	0.813
150	26.938	35.338	22.994	0.864
160	23.641	35.081	23.810	0.910
170	19.483	34.948	24.858	0.945
180	16.873	34.896	25.465	0.972
190	15.550	34.861	25.744	0.997
200	14.610	34.873	25.960	1.018
250	12.834	34.883	26.336	1.111
300	12.348	34.878	26.428	1.196
350	11.473	34.805	26.537	1.278
400	9.983	34.727	26.742	1.353
450	8.904	34.661	26.868	1.420
500	8.200	34.638	26.959	1.481
503	8.136	34.634	26.966	1.484



CAST GP6-97-KA-0371 DATE 22 OCT 97 TIME 1542 GMT
LAT 02 00.1N LONG 141 22.6W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 131 T SPD 13 KT VISIBILITY 7
CLOUD 4 AMOUNT 8 DRY 28.0 WET 26.0 DEPTH 4524 M

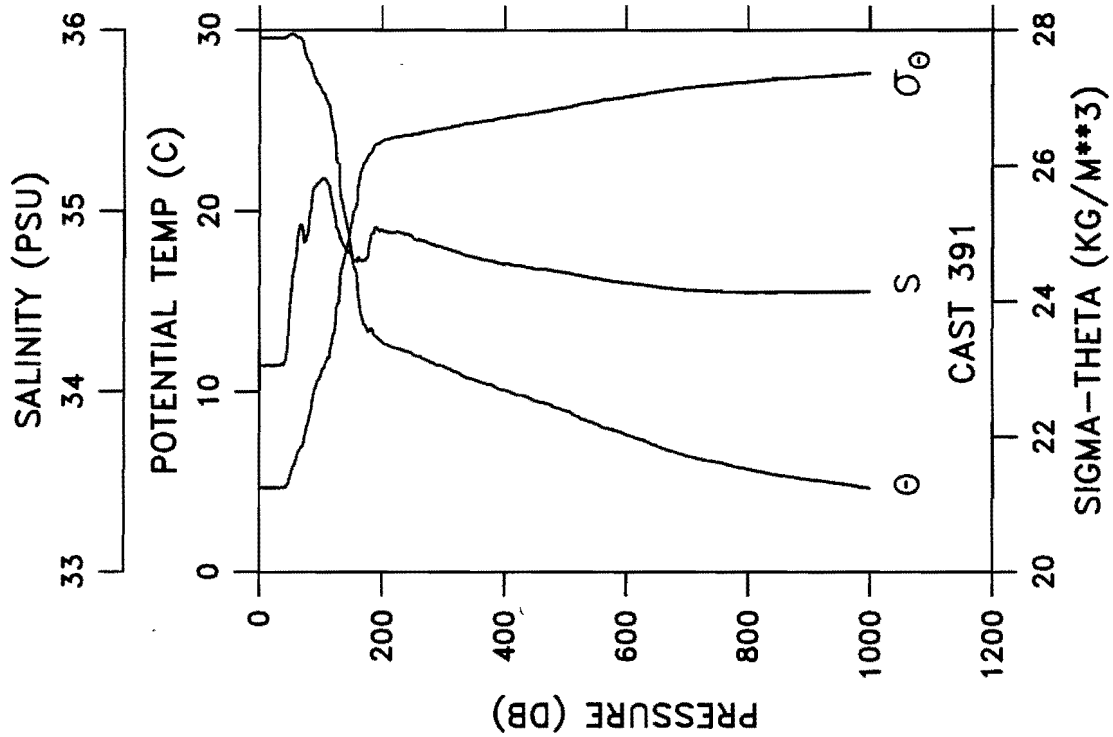
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.492	34.015	21.162	0.000
10	29.482	34.011	21.162	0.066
20	29.484	34.019	21.168	0.132
30	29.530	34.087	21.203	0.199
40	29.632	34.305	21.333	0.264
50	29.492	34.550	21.564	0.327
60	29.307	34.832	21.837	0.389
70	29.135	34.842	21.903	0.449
80	28.888	34.893	22.023	0.508
90	28.740	34.946	22.113	0.566
100	28.674	34.995	22.171	0.623
110	28.527	35.066	22.273	0.679
120	28.430	35.074	22.311	0.735
130	27.838	35.022	22.467	0.791
140	25.243	35.110	23.353	0.840
150	24.117	35.056	23.651	0.885
160	21.212	34.892	24.355	0.925
170	17.129	34.876	25.390	0.954
180	15.585	34.896	25.762	0.978
190	14.290	34.915	26.060	0.999
200	13.720	34.941	26.201	1.018
250	12.869	34.903	26.345	1.108
300	12.248	34.852	26.427	1.193
350	11.408	34.800	26.545	1.274
400	10.375	34.729	26.676	1.350
450	9.563	34.683	26.778	1.420
500	8.736	34.655	26.890	1.486
501	8.724	34.653	26.890	1.487





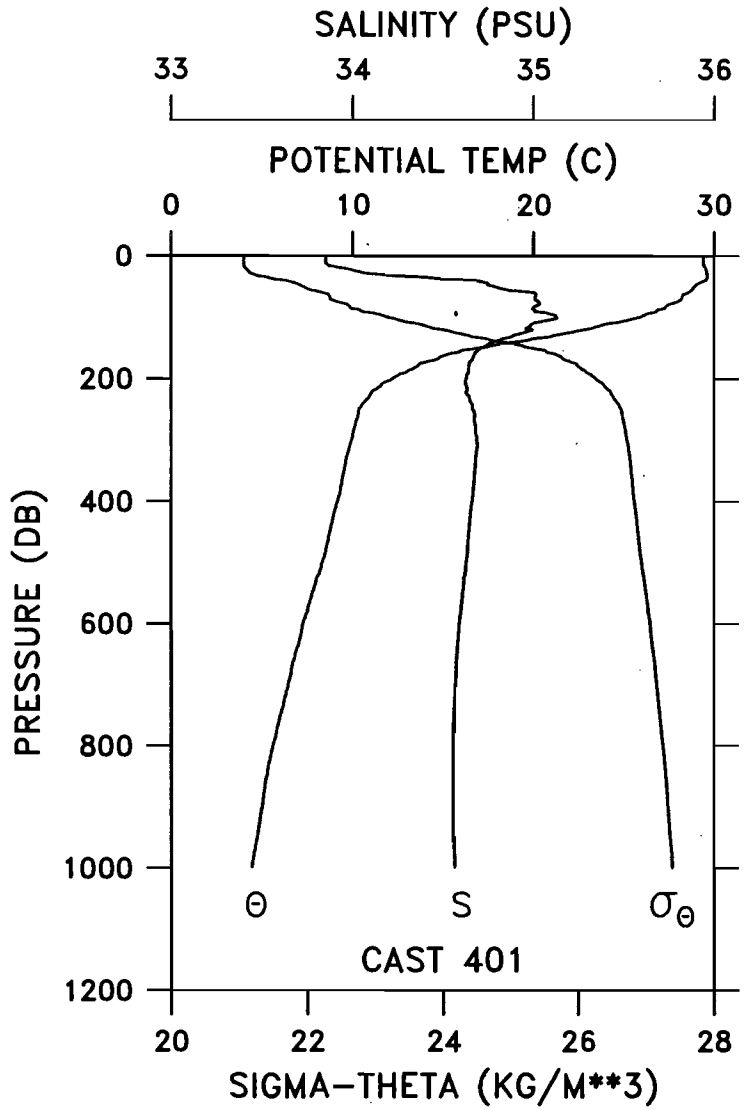
CAST GP6-97-KA-0381 DATE 23 OCT 97 TIME 0037 GMT
LAT 03 00.3N LONG 142 08.1W WEATHER 2 SEA STATE 3
BAROMETER 06 WIND DIR 137 T SPD 04 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 27.4 WET 25.5 DEPTH 4475 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.642	33.887	21.016	0.000
10	29.640	33.890	21.018	0.068
20	29.681	33.962	21.059	0.135
30	29.671	33.972	21.070	0.202
40	29.677	33.989	21.081	0.269
50	29.692	34.045	21.117	0.336
60	29.700	34.151	21.194	0.403
70	29.686	34.757	21.654	0.467
80	29.045	34.959	22.020	0.527
90	28.723	35.147	22.269	0.584
100	28.517	35.171	22.355	0.640
110	27.544	35.161	22.666	0.694
120	27.299	35.169	22.752	0.745
130	26.568	35.126	22.952	0.796
140	23.906	34.934	23.621	0.843
150	20.899	34.914	24.457	0.883
160	17.844	34.861	25.205	0.915
170	15.085	34.928	25.899	0.940
180	14.076	34.949	26.132	0.960
190	13.566	34.929	26.223	0.978
200	13.320	34.912	26.261	0.997
250	12.633	34.879	26.373	1.084
300	11.963	34.840	26.472	1.167
350	11.208	34.785	26.571	1.247
400	10.664	34.751	26.643	1.322
450	10.086	34.710	26.711	1.395
500	9.319	34.672	26.810	1.464
502	9.289	34.671	26.814	1.467



CAST GP6-97-KA-0391 DATE 23 OCT 97 TIME 1128 GMT
LAT 04 00.6N LONG 143 12.1W WEATHER 2 SEA STATE 3
BAROMETER 07 WIND DIR 081 T SPD 03 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 26.9 WET 25.6 DEPTH 4506 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.556	34.144	21.238	0.000
10	29.557	34.144	21.237	0.065
20	29.555	34.143	21.237	0.131
30	29.559	34.147	21.238	0.196
40	29.566	34.156	21.243	0.262
50	29.776	34.480	21.415	0.327
60	29.629	34.747	21.665	0.390
70	29.393	34.907	21.864	0.450
80	28.257	34.906	22.242	0.508
90	27.363	35.133	22.703	0.562
100	26.756	35.172	22.927	0.613
110	26.079	35.160	23.131	0.661
120	24.475	35.008	23.508	0.708
130	22.031	34.853	24.099	0.749
140	19.593	34.794	24.712	0.784
150	17.703	34.753	25.157	0.815
160	15.472	34.744	25.671	0.841
170	13.724	34.727	26.034	0.863
180	13.433	34.840	26.181	0.882
190	13.022	34.910	26.319	0.900
200	12.773	34.896	26.358	0.918
250	12.038	34.851	26.467	1.001
300	11.394	34.797	26.546	1.080
350	10.689	34.745	26.633	1.156
400	10.091	34.707	26.708	1.228
450	9.516	34.680	26.784	1.298
500	8.973	34.660	26.857	1.364
550	8.231	34.629	26.948	1.426
600	7.612	34.604	27.020	1.484
650	7.031	34.582	27.085	1.540
700	6.431	34.564	27.153	1.592
750	6.064	34.557	27.194	1.641
800	5.674	34.550	27.238	1.689
900	5.098	34.551	27.308	1.778
1000	4.644	34.555	27.363	1.863
1000	4.644	34.555	27.363	1.863

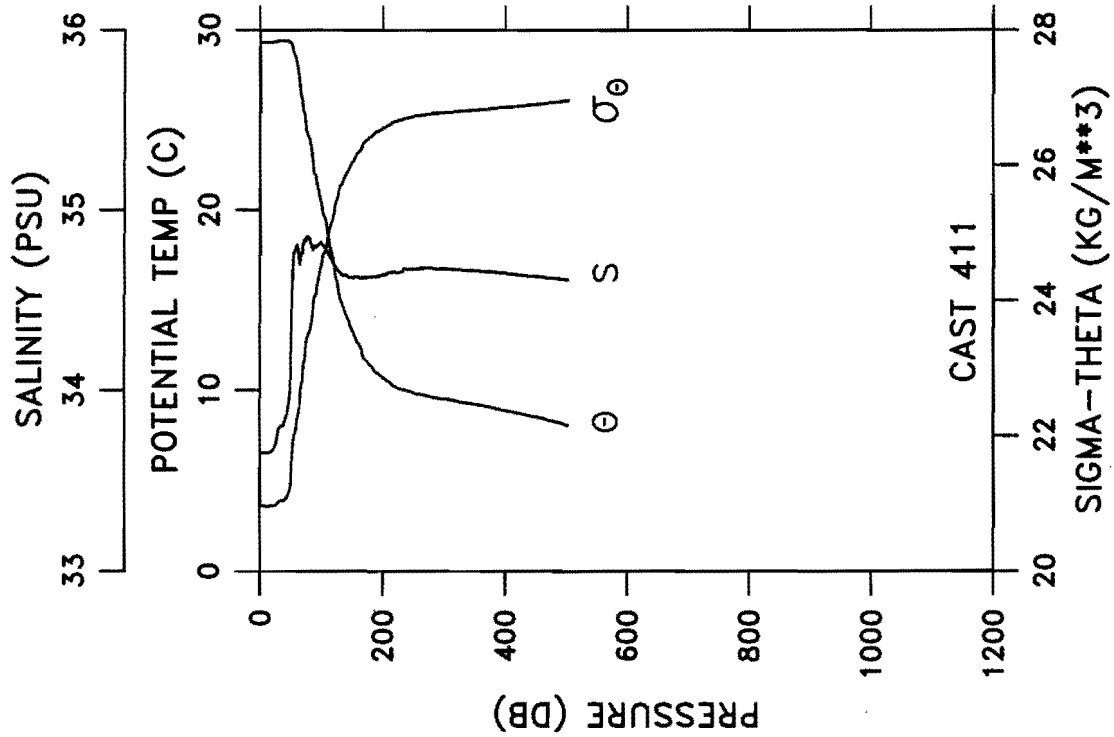


CAST GP6-97-KA-0401 DATE 24 OCT 97 TIME 1203 GMT
LAT 05 00.5N LONG 139 59.3W WEATHER 2 SEA STATE 3
BAROMETER 07 WIND DIR 216 T SPD 03 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 26.1 WET 24.7 DEPTH 4444 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.409	33.852	21.068	0.000
10	29.412	33.849	21.065	0.067
20	29.552	33.949	21.092	0.134
30	29.629	34.139	21.209	0.201
40	29.447	34.681	21.677	0.265
50	28.901	34.785	21.938	0.325
60	28.525	35.007	22.230	0.383
70	28.198	35.008	22.338	0.438
80	27.434	35.022	22.598	0.492
90	26.822	35.006	22.781	0.544
100	25.818	35.125	23.186	0.593
110	24.134	34.994	23.599	0.638
120	22.761	34.994	24.000	0.680
130	21.054	34.883	24.391	0.717
140	18.832	34.773	24.891	0.751
150	16.873	34.709	25.322	0.780
160	15.257	34.672	25.663	0.805
170	14.431	34.654	25.829	0.828
180	13.544	34.641	26.005	0.849
190	12.896	34.638	26.134	0.869
200	12.181	34.626	26.265	0.887
250	10.342	34.663	26.630	0.967
300	9.922	34.683	26.718	1.038
350	9.522	34.675	26.779	1.106
400	9.152	34.659	26.827	1.172
450	8.729	34.640	26.879	1.235
500	8.317	34.626	26.932	1.297
550	7.768	34.606	26.999	1.356
600	7.257	34.588	27.059	1.412
650	6.821	34.575	27.109	1.466
700	6.422	34.567	27.156	1.518
750	5.996	34.559	27.205	1.567
800	5.593	34.555	27.252	1.614
900	5.004	34.554	27.322	1.702
1000	4.454	34.563	27.390	1.784
1500	2.850	34.609	27.587	2.125
2000	2.079	34.644	27.681	2.402
2500	1.697	34.665	27.727	2.645
3000	1.489	34.676	27.751	2.880
3003	1.488	34.675	27.751	2.882

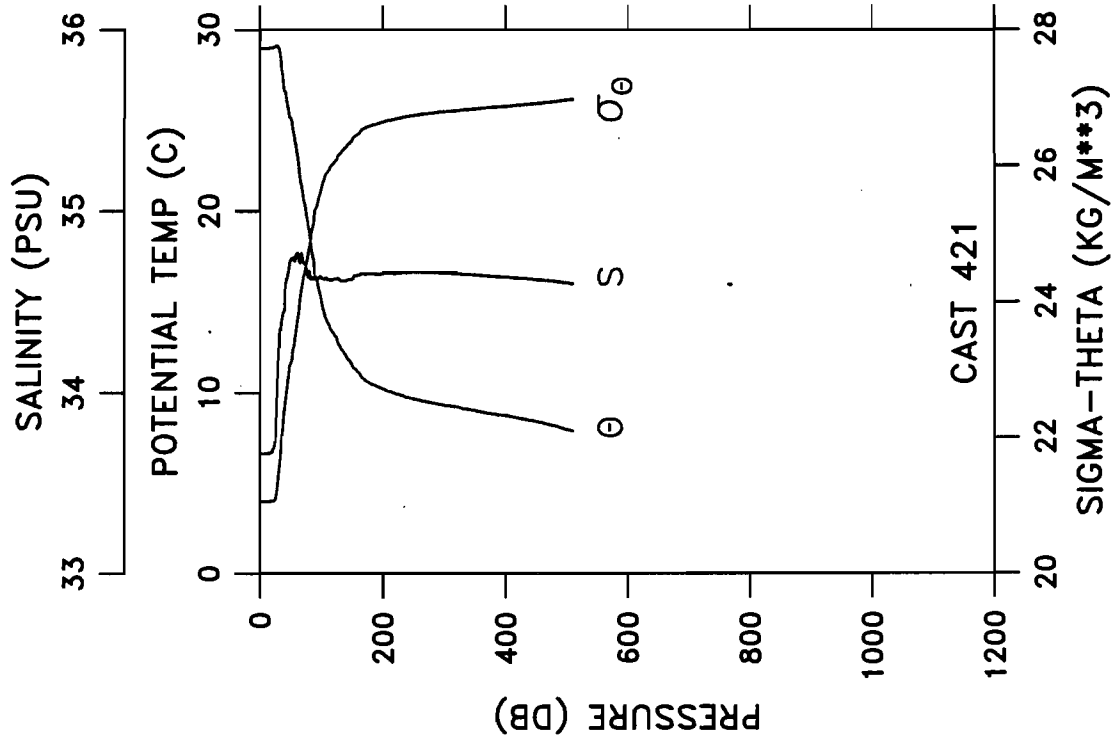
CAST GP6-97-KA-0411 DATE 25 OCT 97 TIME 0542 GMT
LAT 05 59.5N LONG 140 09.2W WEATHER 2 SEA STATE 3
BAROMETER 09 WIND DIR 163 T SPD 08 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 27.3 WET 24.6 DEPTH 4506 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.298	33.657	20.959	0.000
10	29.302	33.655	20.956	0.068
20	29.314	33.666	20.960	0.136
30	29.397	33.786	21.022	0.204
40	29.400	33.826	21.052	0.272
50	29.280	34.089	21.289	0.339
60	28.106	34.805	22.215	0.398
70	25.662	34.807	22.994	0.451
80	24.008	34.846	23.524	0.497
90	21.981	34.795	24.069	0.538
100	20.346	34.818	24.532	0.575
110	18.694	34.770	24.924	0.607
120	17.092	34.704	25.266	0.636
130	15.093	34.652	25.684	0.661
140	14.191	34.638	25.868	0.684
150	13.328	34.624	26.036	0.705
160	12.590	34.628	26.187	0.724
170	11.748	34.625	26.346	0.742
180	11.365	34.628	26.420	0.759
190	10.965	34.630	26.494	0.775
200	10.725	34.640	26.545	0.790
250	9.868	34.672	26.718	0.862
300	9.525	34.674	26.778	0.929
350	9.249	34.663	26.815	0.995
400	8.904	34.649	26.859	1.059
450	8.540	34.631	26.902	1.121
500	8.091	34.613	26.956	1.182
503	8.070	34.612	26.959	1.185



CAST GP6-97-KA-0421 DATE 25 OCT 97 TIME 1328 GMT
LAT 07 00.0N LONG 140 22.2W WEATHER 2 SEA STATE 3
BAROMETER 06 WIND DIR 141 T SPD 08 KT VISIBILITY 7
CLOUD 8 AMOUNT 7 DRY 26.8 WET 24.6 DEPTH 5617 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.984	33.664	21.069	0.000
10	28.989	33.664	21.067	0.067
20	29.004	33.677	21.072	0.134
30	29.040	34.188	21.444	0.200
40	26.601	34.456	22.436	0.259
50	25.133	34.734	23.102	0.310
60	23.218	34.764	23.693	0.355
70	20.734	34.720	24.354	0.394
80	18.881	34.669	24.800	0.428
90	16.402	34.627	25.369	0.457
100	15.059	34.634	25.678	0.482
110	13.909	34.626	25.918	0.504
120	13.275	34.628	26.050	0.524
130	12.587	34.620	26.181	0.543
140	12.068	34.620	26.281	0.561
150	11.552	34.630	26.386	0.579
160	11.149	34.650	26.476	0.595
170	10.750	34.656	26.553	0.610
180	10.525	34.656	26.593	0.625
190	10.373	34.654	26.618	0.640
200	10.233	34.659	26.646	0.654
250	9.684	34.667	26.745	0.723
300	9.326	34.659	26.799	0.790
350	9.044	34.650	26.838	0.854
400	8.763	34.639	26.873	0.917
450	8.428	34.625	26.914	0.979
500	7.991	34.606	26.966	1.039
510	7.896	34.601	26.976	1.050



CAST GP6-97-KA-0021 LAT 09 57.4N LONG 125 24.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.594	33.487	28.591	21.059
25.	18.599	34.516	18.594	24.816
41.	14.701	34.672	14.695	25.788
60.	12.960	34.770	12.952	26.224
100.	11.812	34.738	11.799	26.425
150.	11.163	34.728	11.144	26.537
200.	10.730	34.718	10.706	26.608
601.	6.786	34.551	6.730	27.101
802.	5.487	34.545	5.418	27.264
1003.	4.597	34.560	4.517	27.380
1002.	4.598	34.560	4.517	27.380

CAST GP6-97-KA-0031 LAT 09 01.1N LONG 125 14.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
502.	7.926	34.579	7.875	26.963
502.	7.925	34.580	7.874	26.963
502.	7.929	34.580	7.878	26.963
502.	7.922	34.582	7.871	26.964
502.	7.929	34.581	7.878	26.963
502.	7.926	34.579	7.875	26.963
502.	7.924	34.580	7.872	26.963
502.	7.927	34.581	7.876	26.963
501.	7.931	34.581	7.879	26.962
502.	7.931	34.581	7.880	26.962
502.	7.929	34.581	7.877	26.963
503.	7.909	34.580	7.858	26.965

CAST GP6-97-KA-0041 LAT 08 30.0N LONG 125 06.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.341	33.457	28.339	21.125
199.	10.836	34.720	10.811	26.593
501.	8.225	34.610	8.173	26.942
502.	8.225	34.609	8.173	26.942

CAST GP6-97-KA-0051 LAT 08 01.9N LONG 124 59.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.764	33.750	28.761	21.207
200.	11.105	34.738	11.080	26.558
600.	6.999	34.574	6.942	27.091
799.	5.483	34.557	5.415	27.274
1001.	4.523	34.562	4.443	27.391
1002.	4.522	34.562	4.442	27.391

CAST GP6-97-KA-0061 LAT 07 30.0N LONG 124 58.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.692	33.663	28.690	21.173
200.	10.997	34.727	10.972	26.570
600.	7.035	34.576	6.977	27.089
801.	5.670	34.558	5.600	27.254
1001.	4.694	34.563	4.613	27.374
1002.	4.692	34.563	4.611	27.374

CAST GP6-97-KA-0071 LAT 06 59.9N LONG 124 58.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.794	33.762	28.792	21.207
200.	10.824	34.716	10.800	26.591
600.	7.030	34.574	6.973	27.088
799.	5.583	34.553	5.514	27.260
1005.	4.658	34.559	4.577	27.374
1004.	4.659	34.559	4.577	27.374

CAST GP6-97-KA-0081 LAT 05 59.9N LONG 124 56.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	10.646	34.679	10.621	26.595
601.	7.081	34.582	7.023	27.087
803.	5.580	34.555	5.511	27.262
1003.	4.575	34.563	4.494	27.387
1004.	4.575	34.563	4.494	27.387

CAST GP6-97-KA-0091 LAT 05 10.1N LONG 124 50.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.944	33.950	28.941	21.297
200.	12.079	34.627	12.053	26.289
600.	7.476	34.599	7.416	27.044
801.	5.706	34.555	5.636	27.247
1002.	4.651	34.564	4.570	27.378
1002.	4.651	34.564	4.570	27.378

CAST GP6-97-KA-0101 LAT 04 00.0N LONG 124 55.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.924	33.847	28.922	21.227
201.	13.125	34.898	13.097	26.295
601.	7.510	34.599	7.450	27.039
801.	5.767	34.552	5.697	27.236
1001.	4.681	34.560	4.600	27.371
1001.	4.680	34.560	4.599	27.371

CAST GP6-97-KA-0111 LAT 03 30.1N LONG 124 57.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.737	33.748	28.735	21.214
200.	13.776	34.939	13.748	26.194
601.	7.856	34.617	7.795	27.003
800.	5.958	34.558	5.887	27.217
1000.	4.791	34.560	4.709	27.360
1003.	4.773	34.560	4.692	27.361

CAST GP6-97-KA-0121 LAT 03 00.4N LONG 124 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.608	33.713	28.605	21.231
199.	13.573	34.942	13.545	26.236
599.	7.505	34.603	7.445	27.044
801.	5.950	34.562	5.878	27.221
1004.	4.839	34.557	4.756	27.352
1003.	4.840	34.557	4.758	27.352

CAST GP6-97-KA-0131 LAT 02 29.9N LONG 125 00.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.394	34.250	28.392	21.705
200.	13.559	34.928	13.531	26.231
601.	7.184	34.587	7.126	27.076
800.	5.945	34.559	5.873	27.220
1002.	4.651	34.559	4.570	27.374
1002.	4.651	34.558	4.570	27.374

CAST GP6-97-KA-0141 LAT 01 58.2N LONG 125 02.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.843	34.367	28.841	21.638
200.	13.743	34.956	13.715	26.213
600.	7.112	34.575	7.055	27.076
801.	5.839	34.554	5.768	27.227
1003.	4.564	34.559	4.484	27.383
1002.	4.566	34.559	4.485	27.383

CAST GP6-97-KA-0151 LAT 01 30.1N LONG 124 53.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.805	34.710	28.802	21.915
202.	13.940	34.957	13.911	26.174
600.	7.126	34.586	7.068	27.080
801.	5.590	34.548	5.521	27.254
1001.	4.423	34.559	4.344	27.399
1001.	4.424	34.559	4.345	27.399

CAST GP6-97-KA-0161 LAT 01 00.1N LONG 124 43.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1002.	4.424	34.559	4.345	27.399
1002.	4.424	34.559	4.345	27.399

CAST GP6-97-KA-0171 LAT 00 30.2N LONG 124 33.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.378	34.791	28.375	22.117
202.	14.160	34.889	14.131	26.072
600.	7.057	34.586	6.999	27.092
800.	5.432	34.550	5.364	27.276
1004.	4.304	34.562	4.225	27.414
1004.	4.304	34.562	4.225	27.414

CAST GP6-97-KA-0181 LAT 00 13.8S LONG 124 21.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.183	34.883	28.181	22.250
201.	13.664	34.946	13.635	26.222
1001.	4.352	34.560	4.274	27.407
2001.	2.225	34.644	2.085	27.680
3002.	1.677	34.674	1.456	27.753
3001.	1.677	34.674	1.457	27.752

CAST GP6-97-KA-0191 LAT 00 59.7S LONG 124 35.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.245	34.955	28.242	22.284
203.	14.100	35.044	14.070	26.205
601.	6.915	34.574	6.857	27.102
800.	5.369	34.545	5.301	27.278
1004.	4.457	34.555	4.378	27.392
1002.	4.460	34.555	4.380	27.391

CAST GP6-97-KA-0201 LAT 02 01.3S LONG 124 54.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
12.	28.016	35.129	28.014	22.490
201.	13.175	34.944	13.147	26.322
600.	7.302	34.595	7.243	27.066
799.	5.419	34.548	5.351	27.274
1001.	4.568	34.555	4.488	27.379
1000.	4.572	34.555	4.491	27.379

CAST GP6-97-KA-0211 LAT 02 59.7S LONG 124 41.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.015	35.191	28.013	22.552
202.	13.258	34.951	13.230	26.310
500.	8.801	34.673	8.747	26.904
500.	8.796	34.672	8.742	26.905

CAST GP6-97-KA-0221 LAT 03 59.6S LONG 124 49.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.003	35.326	28.000	22.641
200.	13.290	34.942	13.262	26.296
503.	9.117	34.690	9.061	26.867
503.	9.121	34.689	9.065	26.866

CAST GP6-97-KA-0231 LAT 05 00.1S LONG 124 57.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	13.336	34.948	13.308	26.290
601.	7.782	34.614	7.721	27.012
800.	5.824	34.550	5.753	27.227
1001.	4.637	34.554	4.557	27.367
1001.	4.637	34.549	4.556	27.368

CAST GP6-97-KA-0241 LAT 06 00.0S LONG 124 58.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.923	35.435	27.921	22.750
199.	14.289	35.049	14.260	26.166
501.	8.594	34.663	8.541	26.927
501.	8.574	34.676	8.520	26.930

CAST GP6-97-KA-0251 LAT 06 59.5S LONG 124 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	27.800	35.545	27.797	22.872
503.	9.073	34.688	9.017	26.872
502.	9.078	34.688	9.023	26.871

CAST GP6-97-KA-0261 LAT 07 57.7S LONG 125 02.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	27.357	35.556	27.355	23.025
200.	14.961	35.037	14.931	26.009
602.	7.160	34.584	7.102	27.077
801.	5.587	34.543	5.518	27.249
1003.	4.594	34.543	4.513	27.367
1003.	4.596	34.542	4.516	27.367

CAST GP6-97-KA-0281 LAT 06 59.8S LONG 139 48.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
26.	28.463	35.613	28.457	22.709
201.	15.412	35.164	15.381	26.003
600.	7.462	34.637	7.403	27.044
801.	5.722	34.543	5.652	27.233
1003.	4.639	34.543	4.558	27.362
1003.	4.639	34.542	4.558	27.362

CAST GP6-97-KA-0291 LAT 05 59.4S LONG 139 50.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.848	35.400	28.846	22.422
201.	15.213	35.156	15.182	26.037
600.	7.107	34.584	7.049	27.083
800.	5.551	34.577	5.482	27.256
1003.	4.609	34.547	4.529	27.370
1002.	4.610	34.546	4.529	27.370

CAST GP6-97-KA-0301 LAT 05 02.5S LONG 139 53.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.997	35.438	28.994	22.398
1000.	4.703	34.544	4.622	27.357
2001.	2.305	34.637	2.164	27.667
2499.	1.870	34.666	1.692	27.729
3005.	1.662	34.678	1.441	27.757
3005.	1.663	34.678	1.442	27.757

CAST GP6-97-KA-0311 LAT 03 59.8S LONG 139 54.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.219	35.079	29.216	22.052
202.	13.345	34.946	13.316	26.288
600.	7.379	34.601	7.320	27.059
800.	5.687	34.546	5.617	27.241
1002.	4.615	34.543	4.535	27.364
1002.	4.615	34.543	4.535	27.364

CAST GP6-97-KA-0321 LAT 02 59.5S LONG 139 55.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.126	35.140	29.124	22.130
200.	13.550	34.961	13.521	26.258
590.	7.482	34.608	7.424	27.048
801.	5.698	34.551	5.628	27.244
996.	4.622	34.556	4.542	27.374
996.	4.621	34.556	4.541	27.374

CAST GP6-97-KA-0331 LAT 02 00.4S LONG 139 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.289	34.988	29.286	21.961
200.	13.486	34.959	13.458	26.268
501.	8.714	34.671	8.660	26.914
501.	8.716	34.669	8.662	26.914

CAST GP6-97-KA-0341 LAT 01 00.2S LONG 139 57.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	29.211	34.906	29.209	21.925
201.	13.175	34.966	13.148	26.336
501.	8.024	34.625	7.973	26.983
502.	8.012	34.624	7.960	26.985

CAST GP6-97-KA-0351 LAT 00 04.6N LONG 140 02.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.200	34.920	29.198	21.919
1000.	4.675	34.553	4.594	27.367
2001.	2.289	34.640	2.148	27.672
2499.	1.867	34.665	1.689	27.726
3007.	1.691	34.675	1.470	27.751
3006.	1.692	34.674	1.470	27.751

CAST GP6-97-KA-0361 LAT 01 02.3N LONG 140 40.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
26.	29.430	34.544	29.424	21.594
201.	14.707	34.864	14.677	25.938
502.	8.216	34.634	8.163	26.963
502.	8.218	34.634	8.166	26.963
501.	8.221	34.635	8.169	26.963
502.	8.214	34.633	8.161	26.964

CAST GP6-97-KA-0371 LAT 02 00.1N LONG 141 22.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.484	34.019	29.482	21.168
200.	13.729	34.931	13.701	26.197
500.	8.787	34.652	8.733	26.889
500.	8.785	34.652	8.731	26.889
501.	8.780	34.651	8.725	26.890

CAST GP6-97-KA-0381 LAT 03 00.3N LONG 142 08.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.664	33.908	29.662	21.033
204.	13.281	34.908	13.252	26.275
500.	9.370	34.668	9.314	26.809
501.	9.356	34.667	9.300	26.811
502.	9.350	34.667	9.293	26.813

CAST GP6-97-KA-0391 LAT 04 00.6N LONG 143 12.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.559	34.139	29.557	21.233
201.	12.662	34.885	12.635	26.375
600.	7.672	34.601	7.611	27.017
801.	5.738	34.549	5.668	27.237
990.	4.740	34.555	4.659	27.361
993.	4.734	34.556	4.654	27.361

CAST GP6-97-KA-0401 LAT 05 00.5N LONG 139 59.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
25.	29.618	33.851	29.612	21.131
199.	11.691	34.613	11.666	26.353
1000.	4.493	34.565	4.413	27.395
2000.	2.218	34.646	2.079	27.680
2500.	1.875	34.666	1.697	27.726
3002.	1.710	34.675	1.488	27.751

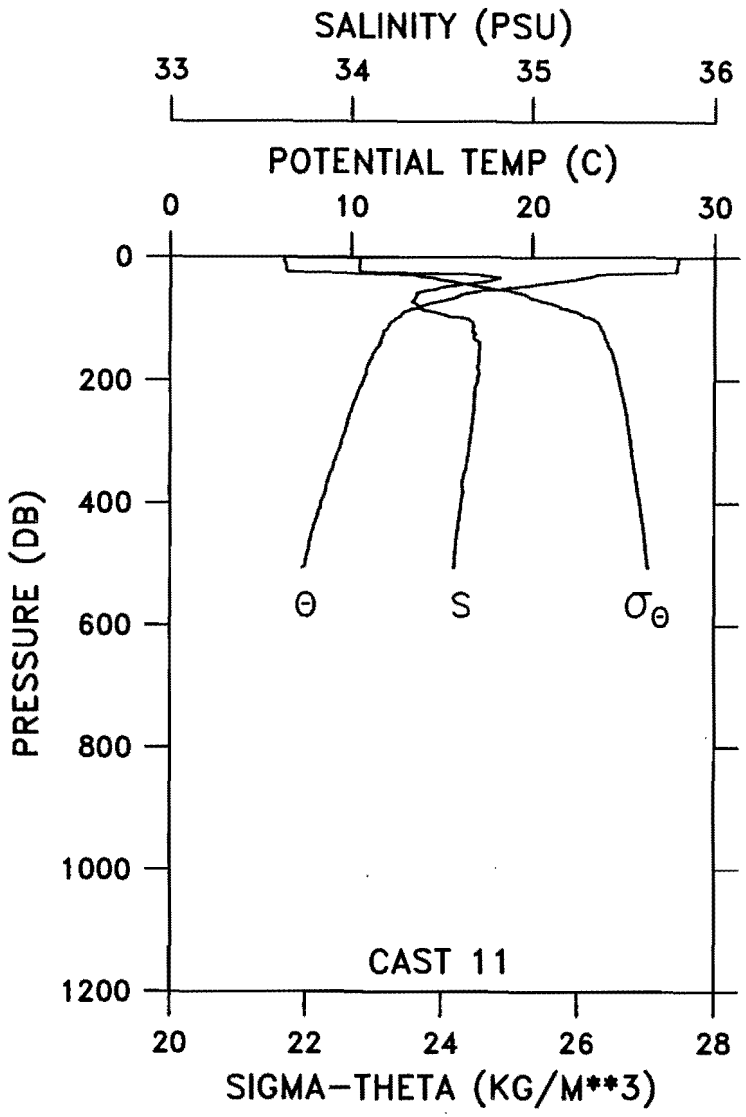
CAST GP6-97-KA-0411 LAT 05 59.5N LONG 140 09.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
8.	29.290	33.657	29.288	20.962
202.	10.806	34.632	10.782	26.531
500.	8.142	34.611	8.091	26.955
501.	8.135	34.611	8.083	26.956
501.	8.137	34.611	8.085	26.956

CAST GP6-97-KA-0421 LAT 07 00.0N LONG 140 22.2W

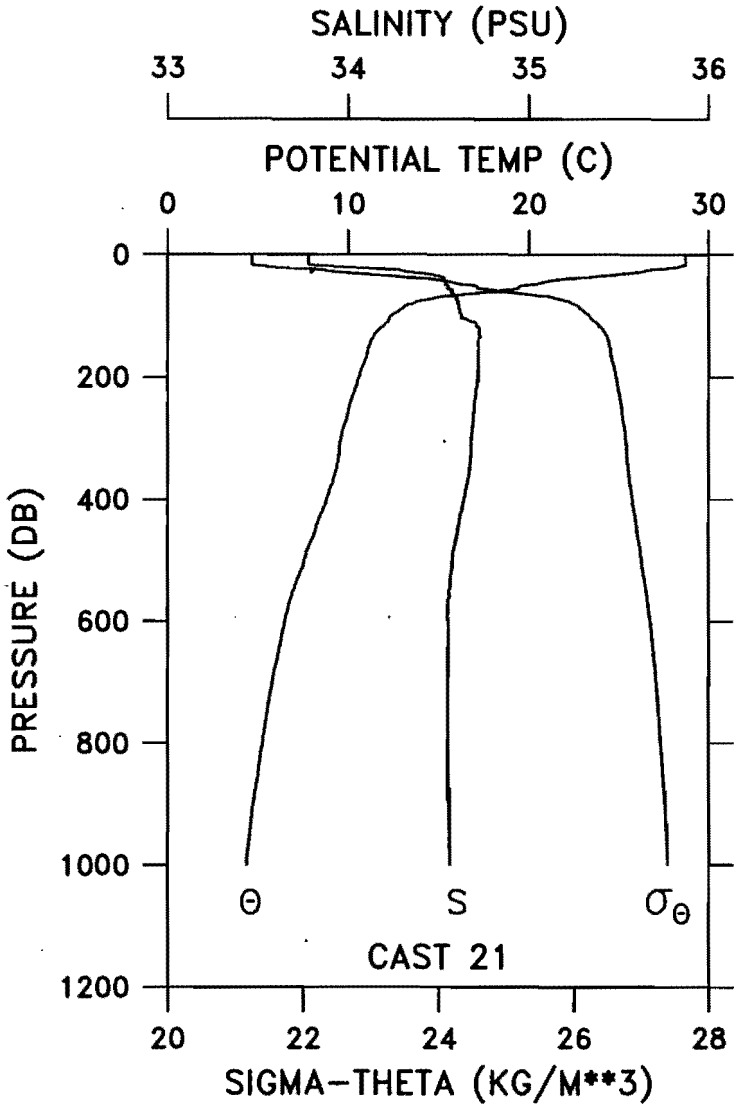
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.020	33.686	29.018	21.073
200.	10.191	34.657	10.168	26.656
502.	8.007	34.605	7.955	26.970
502.	8.012	34.605	7.961	26.969
502.	8.017	34.604	7.965	26.969

GP7-97-KA
November 6–December 17, 1997
CTD and Hydrographic Data Summary



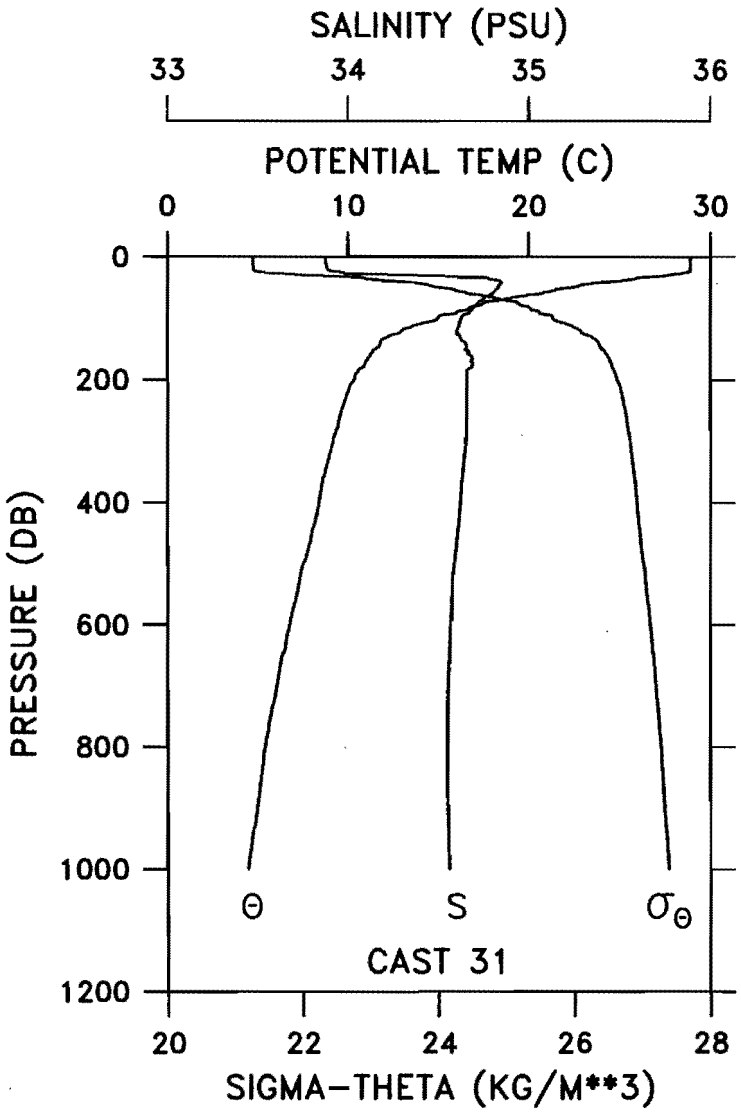
CAST GP7-97-KA-0011 DATE 10 NOV 97 TIME 0051 GMT
LAT 09 22.0N LONG 155 18.7W WEATHER 1 SEA STATE 1
BAROMETER 11 WIND DIR 347 T SPD 07 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.6 WET 23.6 DEPTH 5412 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.007	34.050	21.680	0.000
10	27.946	34.046	21.697	0.061
20	27.904	34.046	21.711	0.122
30	23.339	34.742	23.642	0.176
40	21.290	34.721	24.204	0.216
50	18.669	34.486	24.713	0.251
60	16.159	34.365	25.224	0.280
70	15.119	34.344	25.441	0.307
80	13.850	34.378	25.738	0.331
90	12.882	34.476	26.011	0.353
100	12.473	34.651	26.227	0.372
110	12.100	34.679	26.321	0.389
120	11.800	34.669	26.371	0.406
130	11.702	34.681	26.398	0.423
140	11.557	34.708	26.446	0.439
150	11.345	34.709	26.486	0.455
160	11.163	34.707	26.518	0.471
170	11.001	34.706	26.547	0.486
180	10.851	34.700	26.569	0.501
190	10.822	34.708	26.581	0.516
200	10.662	34.700	26.603	0.531
250	10.004	34.678	26.700	0.603
300	9.464	34.655	26.773	0.670
350	8.897	34.629	26.844	0.735
400	8.350	34.610	26.915	0.797
450	7.827	34.585	26.973	0.856
500	7.485	34.572	27.013	0.913
505	7.311	34.566	27.034	0.919



CAST GP7-97-KA-0021 DATE 10 NOV 97 TIME 1106 GMT
LAT 08 01.0N LONG 155 00.0W WEATHER 1 SEA STATE 1
BAROMETER 13 WIND DIR 349 T SPD 07 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 26.8 WET 24.0 DEPTH 5152 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.724	33.783	21.245	0.000
10	28.721	33.782	21.245	0.065
20	28.332	33.938	21.490	0.130
30	25.716	34.396	22.668	0.187
40	21.810	34.527	23.913	0.233
50	19.684	34.552	24.504	0.270
60	18.067	34.567	24.925	0.303
70	14.854	34.600	25.696	0.329
80	13.521	34.605	25.982	0.351
90	12.844	34.615	26.127	0.370
100	12.342	34.628	26.235	0.389
110	12.166	34.701	26.326	0.406
120	11.789	34.724	26.415	0.423
130	11.439	34.722	26.480	0.439
140	11.244	34.719	26.513	0.455
150	11.138	34.722	26.535	0.470
160	11.057	34.719	26.547	0.485
170	10.944	34.719	26.567	0.501
180	10.822	34.720	26.590	0.515
190	10.673	34.717	26.614	0.530
200	10.584	34.715	26.628	0.545
250	10.021	34.695	26.711	0.615
300	9.618	34.681	26.768	0.683
350	9.342	34.670	26.804	0.749
400	8.791	34.638	26.868	0.814
450	8.186	34.605	26.936	0.875
500	7.551	34.575	27.006	0.933
550	6.964	34.556	27.074	0.988
600	6.507	34.555	27.135	1.040
650	6.134	34.553	27.182	1.090
700	5.794	34.551	27.224	1.137
750	5.519	34.549	27.256	1.183
800	5.257	34.549	27.288	1.228
900	4.722	34.556	27.355	1.312
1000	4.381	34.562	27.397	1.392
1500	2.923	34.605	27.577	1.736
2000	2.112	34.640	27.674	2.017
2500	1.694	34.664	27.727	2.262
3000	1.481	34.675	27.751	2.496
3003	1.480	34.675	27.751	2.497

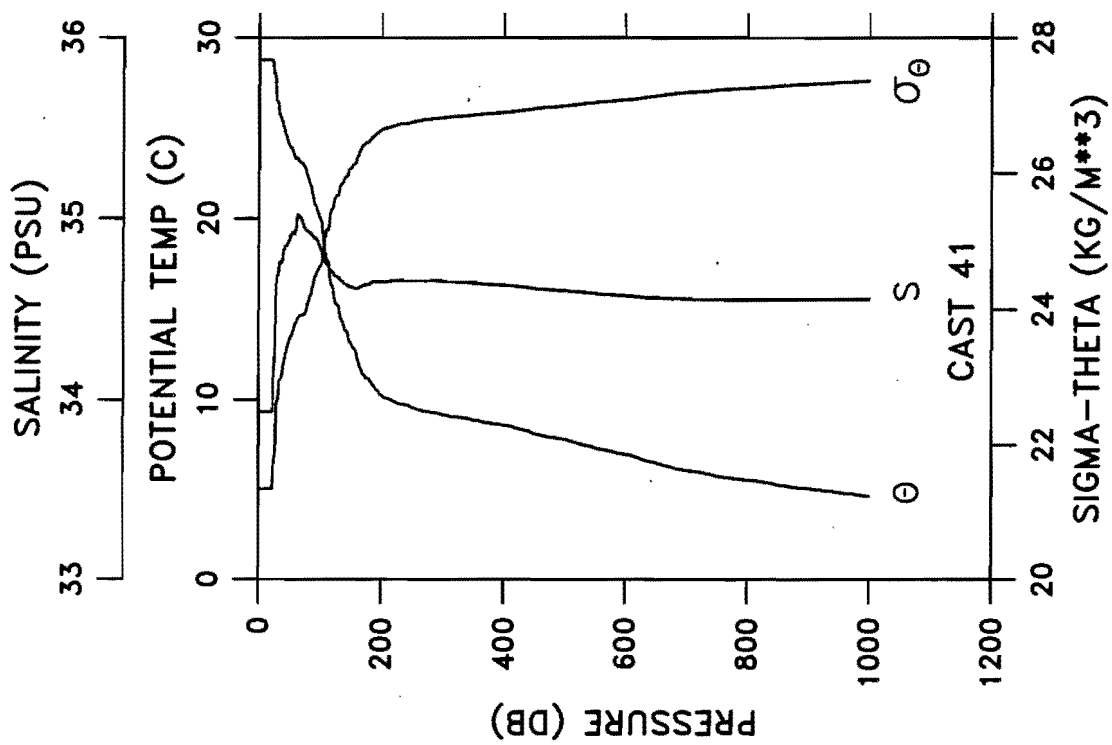


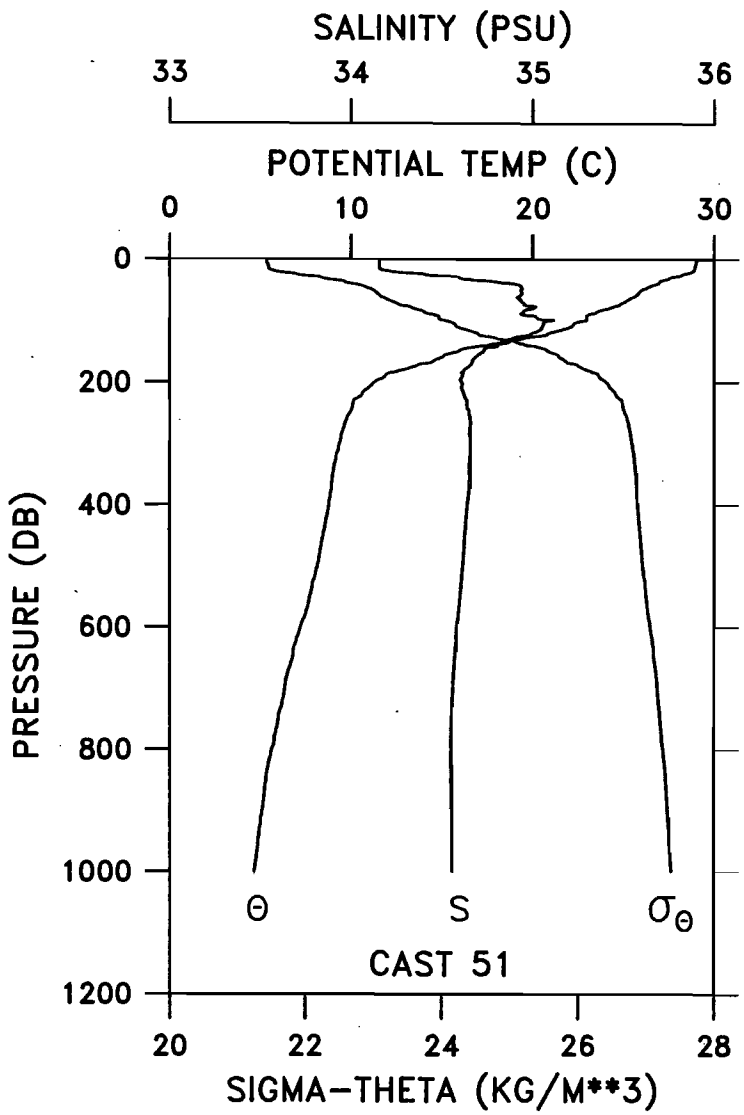
CAST GP7-97-KA-0031 DATE 11 NOV 97 TIME 1006 GMT
LAT 07 00.3N LONG 154 57.7W WEATHER 1 SEA STATE 1
BAROMETER 13 WIND DIR 031 T SPD 08 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.3 WET 24.5 DEPTH 4942 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.888	33.879	21.262	0.000
10	28.887	33.879	21.262	0.065
20	28.890	33.888	21.268	0.130
30	27.599	34.307	22.006	0.194
40	24.558	34.845	23.359	0.244
50	22.192	34.831	24.037	0.285
60	20.576	34.794	24.453	0.322
70	18.426	34.740	24.969	0.354
80	16.912	34.700	25.305	0.382
90	16.010	34.673	25.495	0.408
100	14.966	34.624	25.690	0.432
110	13.866	34.614	25.918	0.454
120	12.983	34.603	26.089	0.475
130	12.206	34.621	26.256	0.493
140	11.800	34.653	26.358	0.511
150	11.535	34.650	26.405	0.528
160	11.247	34.680	26.482	0.544
170	11.016	34.680	26.524	0.559
180	10.839	34.680	26.556	0.574
190	10.437	34.654	26.607	0.589
200	10.358	34.657	26.623	0.604
250	9.635	34.660	26.748	0.673
300	9.188	34.652	26.816	0.739
350	8.743	34.636	26.874	0.802
400	8.393	34.621	26.917	0.863
450	7.997	34.605	26.964	0.922
500	7.534	34.587	27.018	0.980
550	7.166	34.577	27.062	1.035
600	6.757	34.568	27.112	1.088
650	6.345	34.561	27.161	1.139
700	6.035	34.554	27.196	1.188
750	5.677	34.551	27.238	1.235
800	5.389	34.550	27.273	1.280
900	4.963	34.553	27.325	1.368
1000	4.459	34.561	27.388	1.449
1003	4.451	34.560	27.388	1.452

CAST GP7-97-KA-0041 DATE 11 NOV 97 TIME 1701 GMT
LAT 05 59.9N LONG 154 56.3W WEATHER 1 SEA STATE 1
BAROMETER 13 WIND DIR 050 T SPD 07 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.7 WET 25.3 DEPTH 4837 M

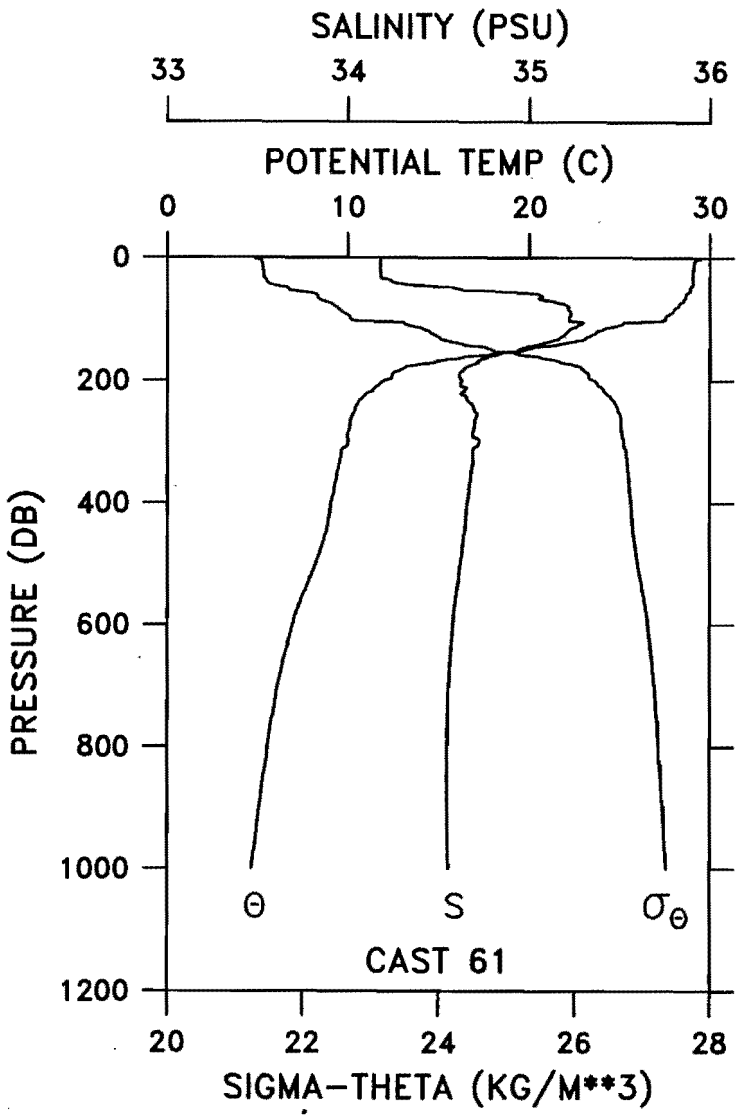
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.762	33.934	21.345	0.000
10	28.768	33.933	21.342	0.064
20	28.762	33.933	21.345	0.129
30	26.463	34.681	22.650	0.189
40	25.066	34.826	23.192	0.238
50	23.983	34.884	23.561	0.283
60	23.325	34.940	23.796	0.325
70	23.044	34.987	23.913	0.366
80	22.224	34.925	24.099	0.405
90	20.882	34.889	24.443	0.442
100	19.987	34.832	24.638	0.476
110	17.687	34.748	25.157	0.507
120	16.177	34.704	25.480	0.534
130	15.068	34.672	25.705	0.558
140	13.846	34.639	25.941	0.580
150	13.105	34.621	26.079	0.600
160	12.282	34.615	26.236	0.620
170	11.389	34.635	26.420	0.637
180	11.112	34.640	26.476	0.653
190	10.613	34.652	26.574	0.668
200	10.267	34.652	26.635	0.683
250	9.580	34.657	26.756	0.752
300	9.172	34.653	26.819	0.817
350	8.874	34.643	26.859	0.881
400	8.587	34.633	26.896	0.943
450	8.127	34.615	26.952	1.003
500	7.811	34.602	26.990	1.061
550	7.343	34.587	27.046	1.117
600	6.969	34.575	27.088	1.172
650	6.504	34.564	27.143	1.224
700	6.068	34.557	27.194	1.273
750	5.740	34.553	27.232	1.321
800	5.548	34.551	27.255	1.367
900	5.062	34.552	27.313	1.455
1000	4.647	34.559	27.366	1.539
1002	4.647	34.558	27.365	1.541





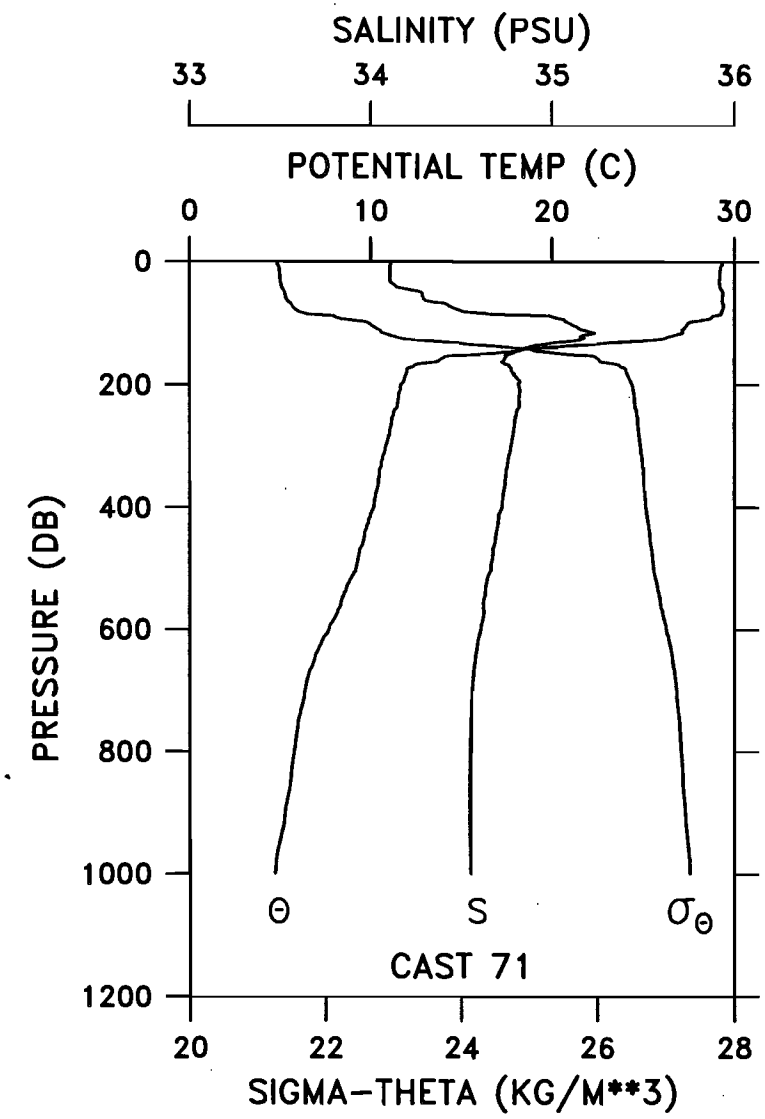
CAST GP7-97-KA-0051 DATE 12 NOV 97 TIME 0012 GMT
LAT 05 01.4N LONG 154 53.9W WEATHER 1 SEA STATE 1
BAROMETER 10 WIND DIR 064 T SPD 01 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 31.4 WET 25.4 DEPTH 4693 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.024	34.160	21.428	0.000
10	28.955	34.159	21.450	0.064
20	28.762	34.224	21.563	0.127
30	27.526	34.597	22.248	0.186
40	26.819	34.897	22.700	0.240
50	25.968	34.933	22.995	0.290
60	25.603	34.926	23.102	0.338
70	24.968	34.946	23.312	0.385
80	24.181	34.997	23.587	0.429
90	23.049	34.945	23.879	0.471
100	22.791	35.089	24.063	0.511
110	22.091	35.051	24.233	0.549
120	20.873	34.996	24.527	0.585
130	19.314	34.863	24.837	0.618
140	17.492	34.808	25.250	0.647
150	15.900	34.729	25.563	0.672
160	14.946	34.682	25.739	0.696
170	13.949	34.665	25.939	0.718
180	12.891	34.625	26.125	0.738
190	11.901	34.613	26.308	0.757
200	11.295	34.612	26.420	0.774
250	9.956	34.651	26.687	0.849
300	9.375	34.657	26.789	0.916
350	9.005	34.654	26.847	0.980
400	8.781	34.641	26.873	1.043
450	8.477	34.628	26.909	1.105
500	8.179	34.618	26.947	1.166
550	7.743	34.602	27.000	1.224
600	7.229	34.583	27.059	1.281
650	6.791	34.572	27.110	1.334
700	6.354	34.562	27.161	1.385
750	5.992	34.555	27.202	1.434
800	5.621	34.554	27.248	1.481
900	5.086	34.556	27.313	1.570
1000	4.664	34.561	27.365	1.655
1004	4.660	34.560	27.365	1.658



CAST GP7-97-KA-0061 DATE 12 NOV 97 TIME 0728 GMT
LAT 04 00.1N LONG 154 56.1W WEATHER 1 SEA STATE 1
BAROMETER 13 WIND DIR 090 T SPD 00 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 27.6 WET 23.5 DEPTH 4699 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.499	34.183	21.286	0.000
10	29.136	34.180	21.405	0.064
20	29.097	34.179	21.418	0.128
30	29.075	34.181	21.427	0.192
40	29.084	34.250	21.475	0.255
50	28.904	34.598	21.796	0.317
60	28.704	35.052	22.204	0.376
70	28.542	35.118	22.307	0.432
80	28.194	35.221	22.499	0.487
90	27.848	35.231	22.620	0.540
100	27.541	35.219	22.711	0.592
110	24.974	35.270	23.555	0.639
120	23.739	35.208	23.878	0.681
130	23.126	35.166	24.025	0.721
140	21.756	35.063	24.336	0.760
150	19.783	34.941	24.775	0.794
160	16.968	34.786	25.359	0.823
170	14.831	34.715	25.790	0.847
180	13.095	34.645	26.099	0.868
190	12.433	34.616	26.208	0.887
200	12.006	34.632	26.303	0.905
250	10.388	34.699	26.650	0.984
300	10.028	34.725	26.733	1.054
350	9.418	34.679	26.799	1.121
400	9.073	34.658	26.839	1.186
450	8.785	34.643	26.873	1.250
500	8.247	34.621	26.939	1.311
550	7.532	34.600	27.028	1.369
600	6.961	34.581	27.094	1.423
650	6.507	34.567	27.145	1.475
700	6.105	34.558	27.190	1.525
750	5.821	34.552	27.221	1.573
800	5.552	34.548	27.251	1.619
900	5.078	34.550	27.309	1.708
1000	4.659	34.555	27.361	1.793
1004	4.643	34.554	27.363	1.796

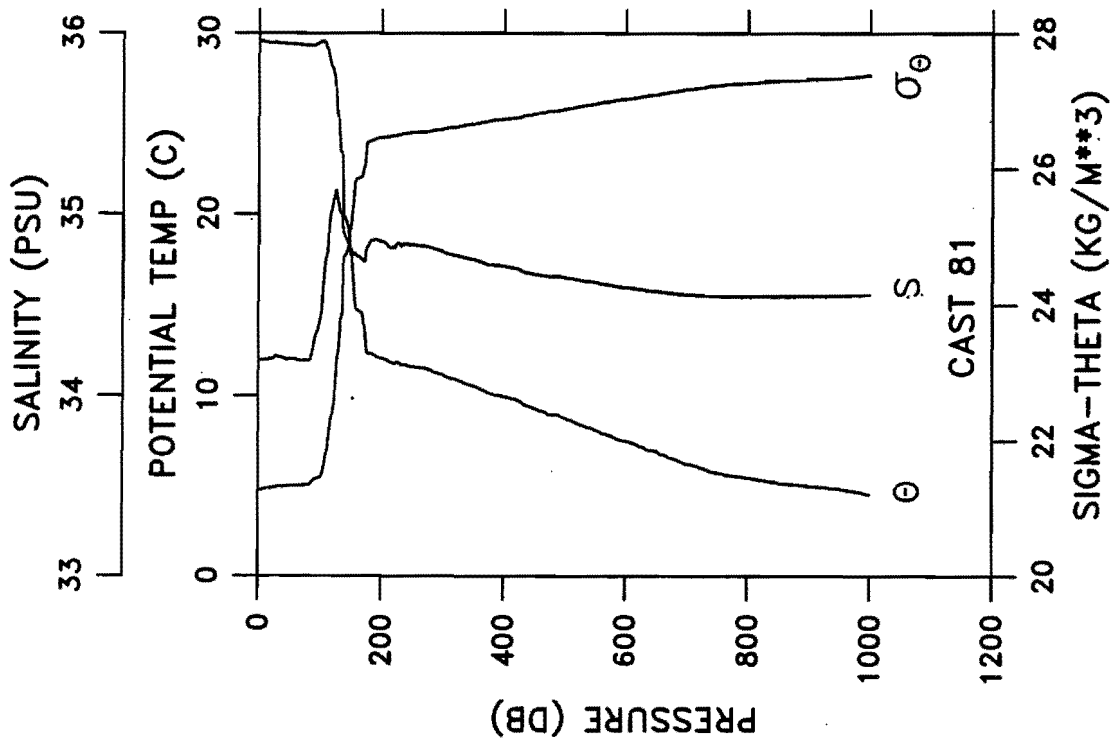


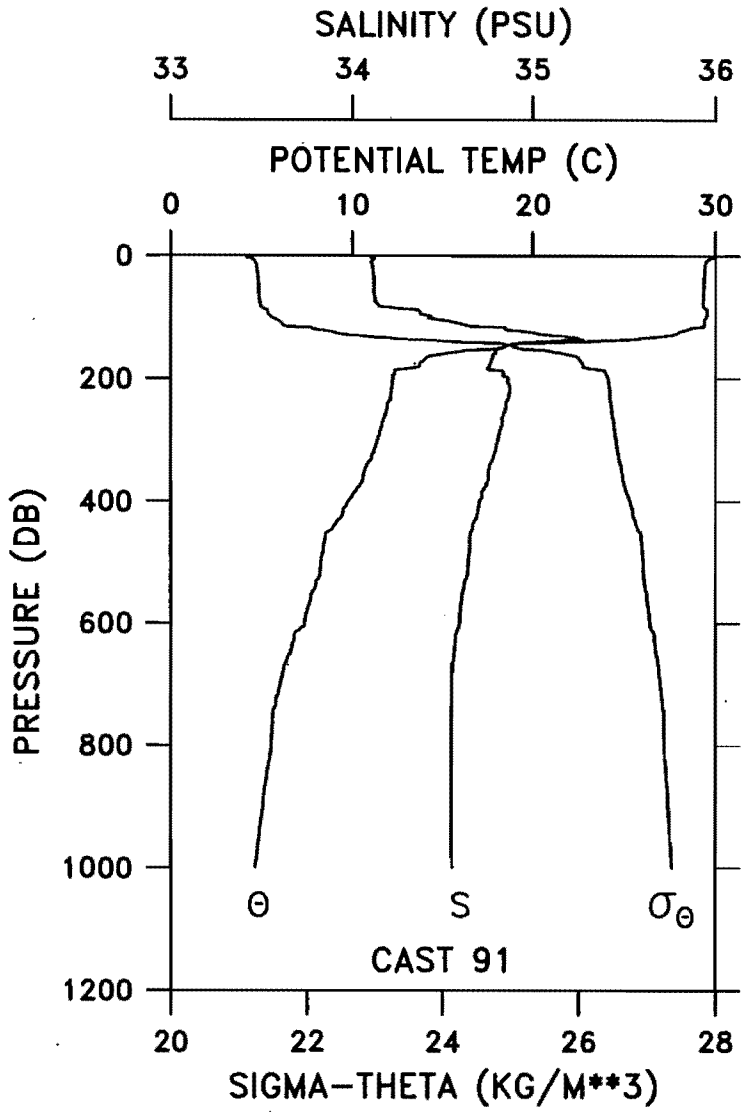
CAST GP7-97-KA-0071 DATE 12 NOV 97 TIME 1415 GMT
LAT 02 59.9N LONG 154 56.8W WEATHER 1 SEA STATE 1
BAROMETER 11 WIND DIR 301 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 27.5 WET 24.8 DEPTH 4796 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.344	34.112	21.285	0.000
10	29.250	34.107	21.312	0.065
20	29.219	34.107	21.323	0.130
30	29.198	34.106	21.330	0.194
40	29.220	34.139	21.346	0.259
50	29.389	34.281	21.396	0.323
60	29.348	34.291	21.417	0.387
70	29.409	34.426	21.499	0.451
80	29.331	34.500	21.580	0.514
90	28.774	35.007	22.147	0.574
100	27.476	35.095	22.638	0.629
110	27.185	35.156	22.778	0.681
120	26.655	35.166	22.954	0.731
130	23.905	35.056	23.714	0.778
140	19.510	34.851	24.778	0.816
150	16.357	34.770	25.490	0.844
160	13.802	34.736	26.025	0.866
170	12.375	34.766	26.335	0.884
180	11.977	34.785	26.427	0.901
190	11.851	34.811	26.471	0.917
200	11.658	34.817	26.512	0.933
250	11.249	34.803	26.578	1.010
300	10.833	34.775	26.631	1.084
350	10.461	34.747	26.675	1.157
400	10.164	34.727	26.711	1.228
450	9.628	34.691	26.774	1.298
500	9.187	34.665	26.826	1.365
550	8.416	34.628	26.919	1.428
600	7.694	34.610	27.013	1.488
650	6.874	34.579	27.105	1.543
700	6.348	34.563	27.163	1.594
750	5.969	34.556	27.206	1.643
800	5.743	34.553	27.232	1.691
900	5.238	34.549	27.290	1.782
1000	4.686	34.555	27.358	1.867
1003	4.671	34.555	27.360	1.870

CAST GP7-97-KA-0081 DATE 12 NOV 97 TIME 2122 GMT
LAT 01 57.8N LONG 154 57.2W WEATHER 1 SEA STATE 0
BAROMETER 13 WIND DIR 259 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 30.0 WET 26.2 DEPTH 4663 M

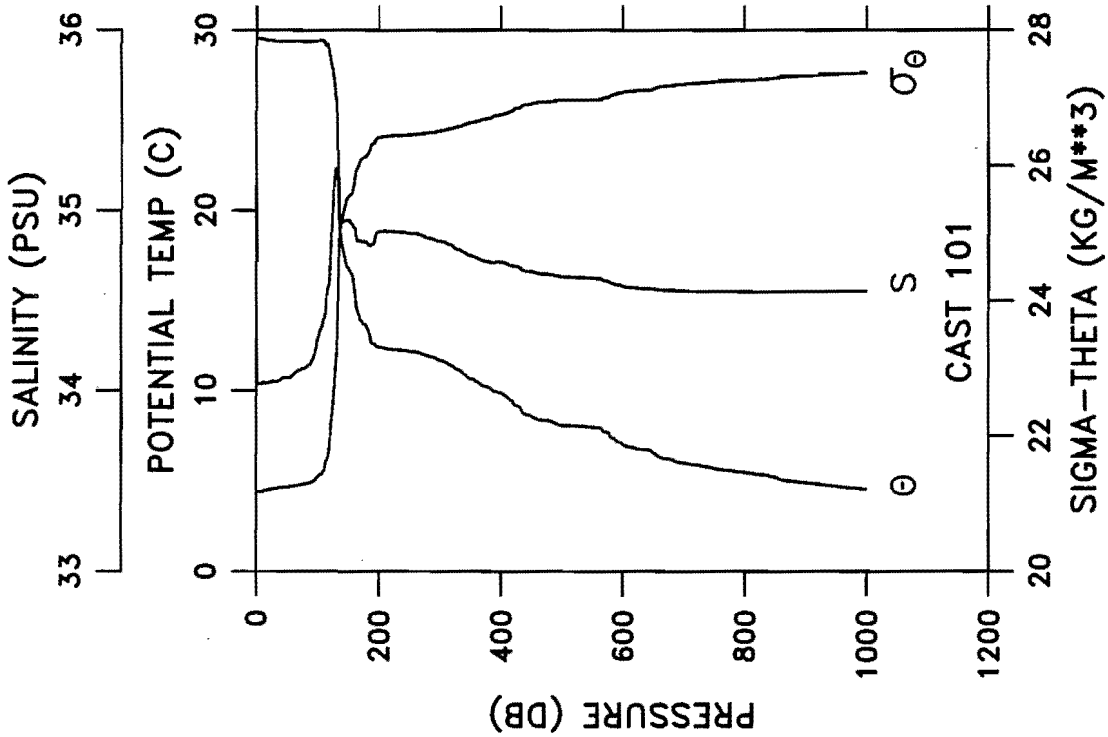
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.573	34.200	21.274	0.000
10	29.527	34.198	21.288	0.065
20	29.505	34.204	21.300	0.130
30	29.490	34.220	21.316	0.195
40	29.448	34.208	21.322	0.260
50	29.415	34.204	21.330	0.324
60	29.398	34.201	21.334	0.389
70	29.367	34.195	21.339	0.454
80	29.350	34.193	21.344	0.519
90	29.328	34.291	21.425	0.583
100	29.515	34.420	21.458	0.647
110	29.198	34.758	21.819	0.710
120	28.092	35.042	22.398	0.767
130	25.113	35.057	23.352	0.818
140	19.799	34.884	24.727	0.858
150	17.878	34.811	25.158	0.889
160	14.731	34.772	25.856	0.913
170	14.053	34.742	25.977	0.935
180	12.314	34.840	26.405	0.953
190	12.201	34.862	26.444	0.970
200	12.063	34.851	26.462	0.986
250	11.602	34.832	26.534	1.065
300	11.163	34.795	26.587	1.142
350	10.551	34.752	26.663	1.216
400	9.944	34.714	26.738	1.287
450	9.299	34.669	26.811	1.355
500	8.755	34.651	26.884	1.420
550	8.095	34.626	26.966	1.481
600	7.494	34.598	27.032	1.538
650	6.928	34.576	27.095	1.593
700	6.196	34.558	27.179	1.644
750	5.721	34.549	27.232	1.692
800	5.437	34.548	27.265	1.738
900	4.969	34.550	27.322	1.825
1000	4.492	34.558	27.382	1.908
1004	4.473	34.558	27.384	1.911





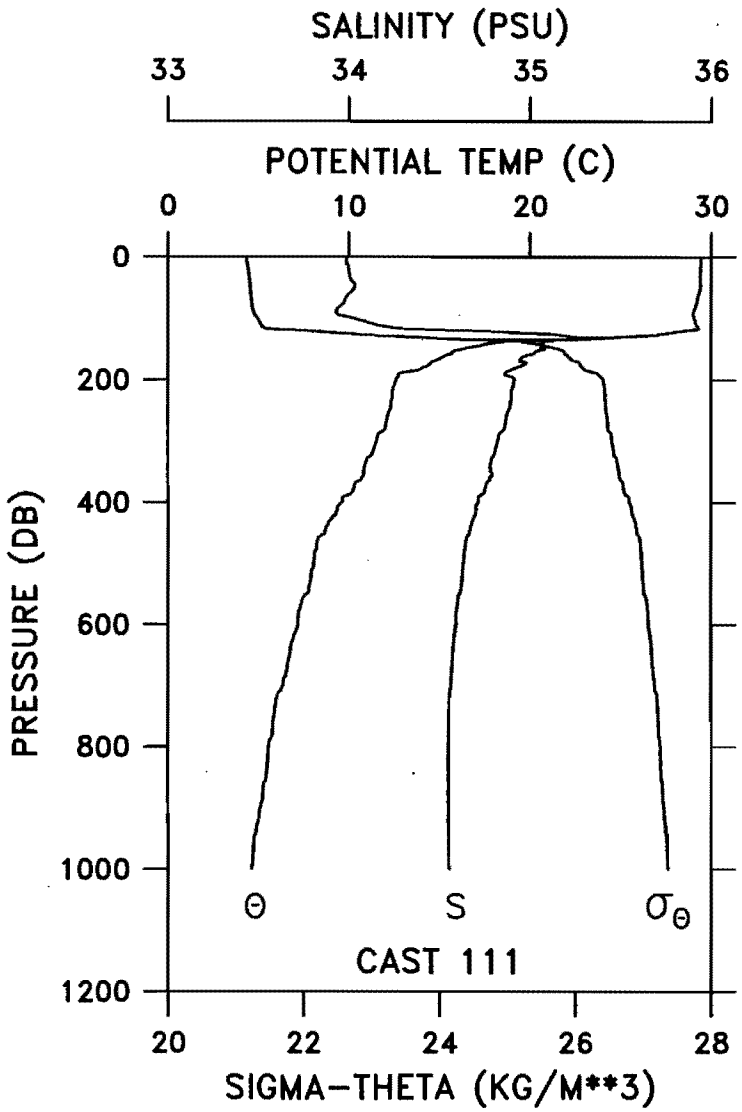
CAST GP7-97-KA-0091 DATE 13 NOV 97 TIME 0114 GMT
LAT 01 30.0N LONG 154 54.6W WEATHER 1 SEA STATE 0
BAROMETER 10 WIND DIR 226 T SPD 01 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 30.6 WET 27.0 DEPTH 4509 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.839	34.103	21.111	0.000
10	29.482	34.104	21.232	0.066
20	29.432	34.112	21.256	0.131
30	29.409	34.116	21.266	0.197
40	29.393	34.122	21.276	0.262
50	29.381	34.121	21.279	0.327
60	29.366	34.120	21.284	0.393
70	29.359	34.128	21.292	0.458
80	29.355	34.148	21.308	0.523
90	29.554	34.376	21.412	0.588
100	29.486	34.428	21.474	0.652
110	29.404	34.592	21.625	0.715
120	28.459	34.847	22.131	0.775
130	27.218	35.140	22.756	0.830
140	21.997	35.007	24.226	0.875
150	18.146	34.832	25.108	0.906
160	14.958	34.782	25.814	0.931
170	13.950	34.772	26.022	0.951
180	13.700	34.758	26.063	0.971
190	12.340	34.837	26.398	0.989
200	12.259	34.868	26.437	1.006
250	11.922	34.850	26.488	1.087
300	11.389	34.808	26.555	1.165
350	10.691	34.756	26.641	1.241
400	9.773	34.705	26.761	1.313
450	8.653	34.659	26.907	1.378
500	8.263	34.643	26.954	1.438
550	7.757	34.612	27.005	1.497
600	7.371	34.596	27.049	1.553
650	6.554	34.566	27.138	1.606
700	5.988	34.554	27.202	1.655
750	5.585	34.550	27.249	1.701
800	5.497	34.550	27.260	1.747
900	5.041	34.549	27.313	1.835
1000	4.598	34.556	27.369	1.919
1004	4.594	34.555	27.369	1.922



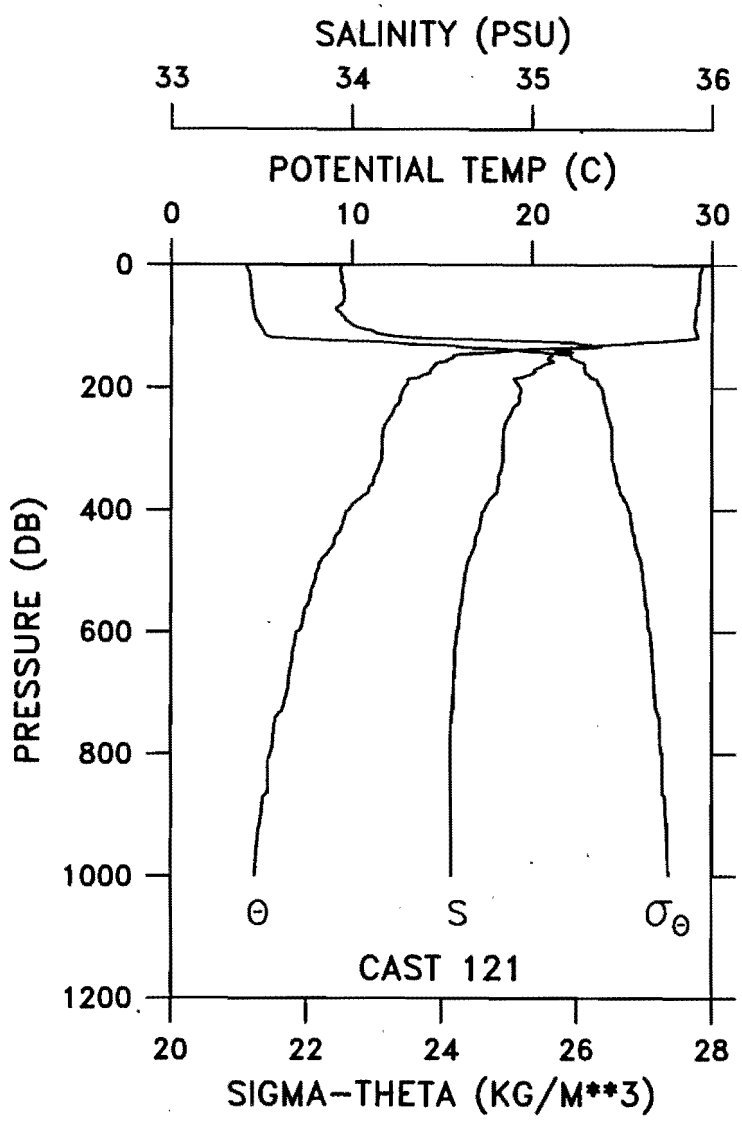
CAST GP7-97-KA-0101 DATE 13 NOV 97 TIME 0500 GMT
LAT 01 00.2N LONG 154 50.5W WEATHER 1 SEA STATE 0
BAROMETER 12 WIND DIR 082 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 28.6 WET 25.9 DEPTH 4717 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.520	34.042	21.173	0.000
10	29.517	34.039	21.172	0.066
20	29.432	34.045	21.205	0.132
30	29.399	34.051	21.221	0.198
40	29.390	34.063	21.233	0.263
50	29.398	34.077	21.240	0.329
60	29.390	34.090	21.253	0.395
70	29.394	34.115	21.270	0.460
80	29.366	34.128	21.289	0.526
90	29.374	34.165	21.315	0.591
100	29.419	34.294	21.396	0.656
110	29.395	34.400	21.484	0.720
120	28.545	34.694	21.988	0.781
130	26.164	35.225	23.154	0.835
140	17.981	34.935	25.228	0.870
150	16.782	34.942	25.522	0.896
160	15.524	34.903	25.781	0.920
170	13.898	34.832	26.079	0.941
180	13.498	34.820	26.153	0.960
190	12.614	34.813	26.325	0.978
200	12.413	34.883	26.419	0.995
250	12.172	34.872	26.457	1.077
300	11.687	34.829	26.516	1.158
350	10.688	34.751	26.638	1.235
400	9.870	34.714	26.751	1.306
450	8.609	34.663	26.916	1.371
500	8.083	34.633	26.974	1.430
550	7.976	34.626	26.984	1.489
600	7.025	34.582	27.086	1.545
650	6.581	34.566	27.134	1.597
700	5.992	34.556	27.203	1.646
750	5.669	34.553	27.241	1.693
800	5.457	34.551	27.265	1.739
900	4.881	34.550	27.332	1.826
1000	4.529	34.556	27.377	1.908
1003	4.502	34.557	27.380	1.910



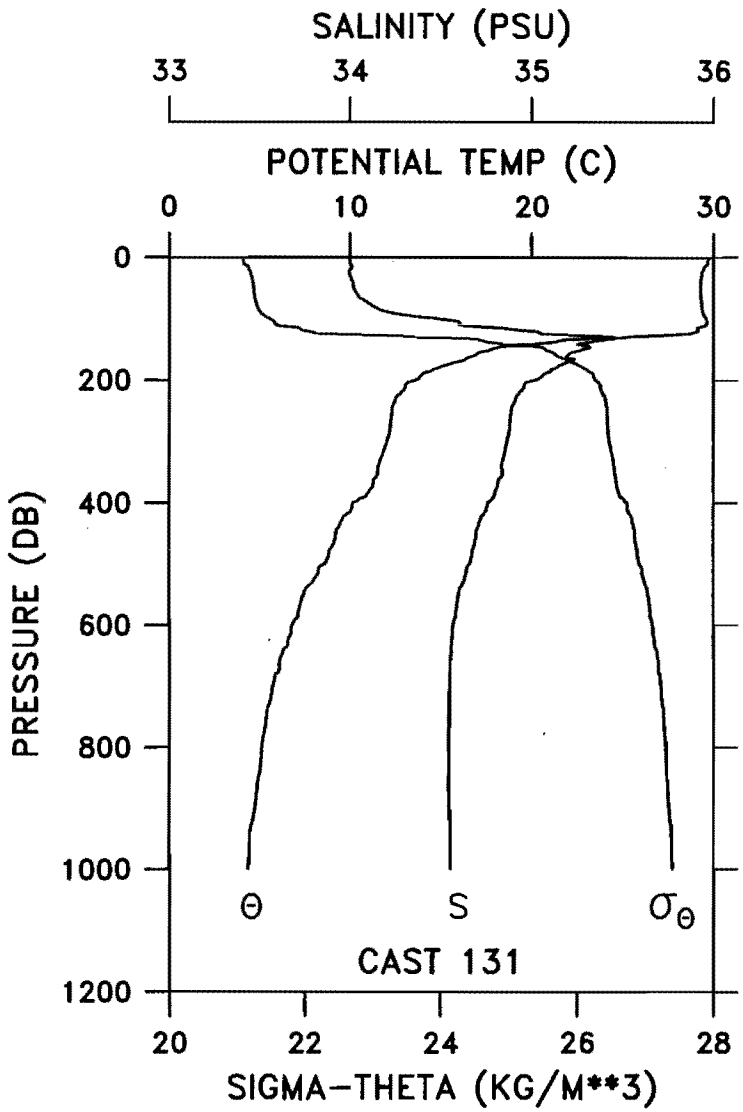
CAST GP7-97-KA-0111 DATE 13 NOV 97 TIME 0858 GMT
LAT 00 30.1N LONG 154 47.8W WEATHER 1 SEA STATE 0
BAROMETER 13 WIND DIR 155 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 28.0 WET 25.5 DEPTH 4642 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.427	33.989	21.165	0.000
10	29.421	33.990	21.167	0.066
20	29.396	33.999	21.183	0.132
30	29.374	34.005	21.195	0.198
40	29.376	34.021	21.206	0.264
50	29.375	34.033	21.215	0.330
60	29.282	34.000	21.221	0.396
70	29.210	33.979	21.230	0.462
80	29.132	33.955	21.238	0.528
90	29.001	33.931	21.264	0.593
100	29.056	34.033	21.321	0.659
110	29.169	34.149	21.371	0.724
120	28.422	34.643	21.990	0.787
130	24.861	35.243	23.569	0.839
140	17.907	35.065	25.346	0.873
150	16.246	35.084	25.756	0.898
160	15.319	34.979	25.886	0.920
170	14.591	34.940	26.016	0.941
180	14.089	34.922	26.108	0.961
190	12.777	34.857	26.327	0.980
200	12.609	34.915	26.405	0.997
250	12.242	34.878	26.449	1.079
300	11.535	34.820	26.537	1.160
350	10.822	34.784	26.640	1.236
400	9.614	34.712	26.793	1.306
450	8.689	34.666	26.906	1.370
500	8.065	34.631	26.975	1.429
550	7.654	34.607	27.017	1.486
600	7.205	34.591	27.068	1.541
650	6.714	34.573	27.122	1.594
700	6.346	34.563	27.163	1.645
750	5.853	34.553	27.218	1.693
800	5.560	34.550	27.252	1.740
900	5.103	34.550	27.306	1.830
1000	4.615	34.554	27.366	1.914
1004	4.576	34.556	27.372	1.917



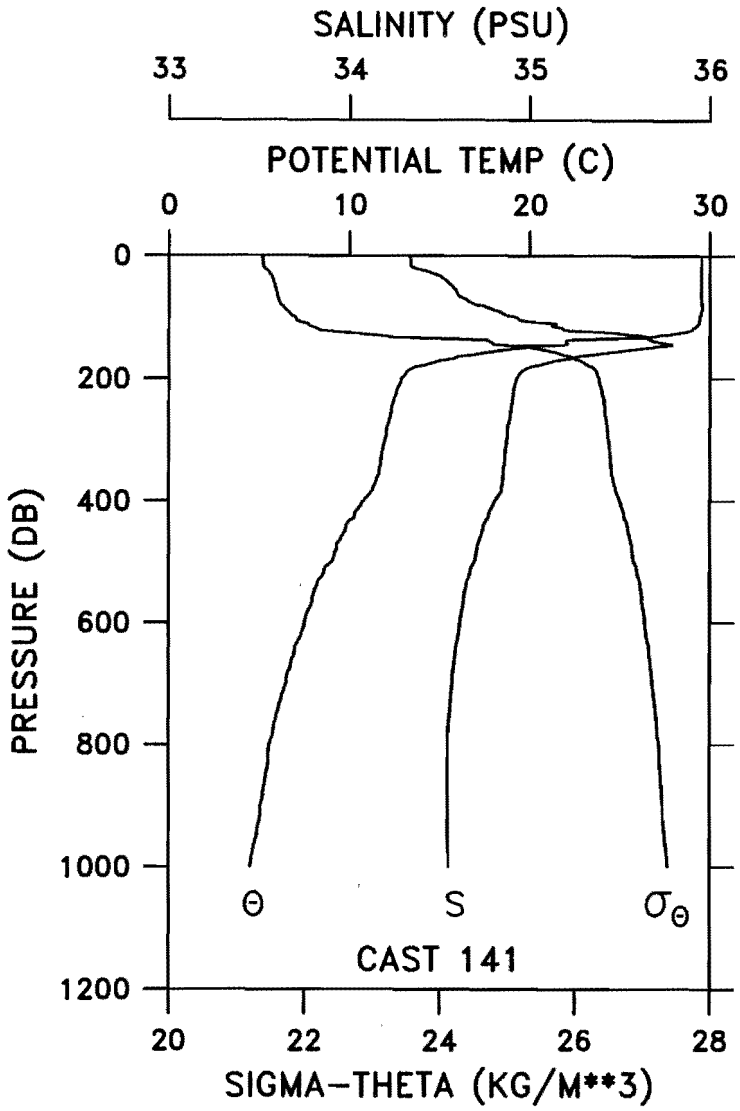
CAST GP7-97-KA-0121 DATE 13 NOV 97 TIME 1329 GMT
LAT 00 01.8N LONG 154 41.1W WEATHER 1 SEA STATE 0
BAROMETER 11 WIND DIR 153 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 27.4 WET 25.5 DEPTH 4755 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.450	33.939	21.120	0.000
10	29.381	33.934	21.139	0.067
20	29.321	33.945	21.168	0.133
30	29.296	33.947	21.177	0.199
40	29.289	33.956	21.186	0.265
50	29.265	33.956	21.194	0.331
60	29.226	33.950	21.203	0.397
70	29.096	33.916	21.221	0.463
80	29.098	33.942	21.239	0.529
90	29.078	33.967	21.265	0.595
100	29.016	34.019	21.324	0.660
110	29.131	34.130	21.370	0.725
120	28.818	34.482	21.739	0.789
130	24.205	35.333	23.835	0.840
140	18.665	35.128	25.205	0.874
150	15.602	35.097	25.914	0.897
160	14.726	35.090	26.102	0.918
170	14.420	35.015	26.110	0.937
180	13.898	34.968	26.184	0.956
190	13.118	34.908	26.299	0.975
200	12.918	34.935	26.360	0.992
250	12.086	34.865	26.469	1.075
300	11.686	34.837	26.523	1.155
350	11.229	34.813	26.589	1.233
400	9.817	34.733	26.775	1.305
450	9.049	34.685	26.864	1.371
500	8.091	34.634	26.973	1.431
550	7.655	34.611	27.019	1.489
600	6.988	34.585	27.094	1.544
650	6.689	34.572	27.124	1.596
700	6.425	34.565	27.154	1.647
750	5.759	34.553	27.230	1.696
800	5.515	34.549	27.257	1.742
900	5.008	34.550	27.318	1.831
1000	4.654	34.553	27.361	1.914
1500	3.020	34.601	27.565	2.266
2000	2.110	34.642	27.676	2.549
2500	1.664	34.665	27.729	2.791
3000	1.424	34.675	27.755	3.022
3002	1.421	34.675	27.755	3.022



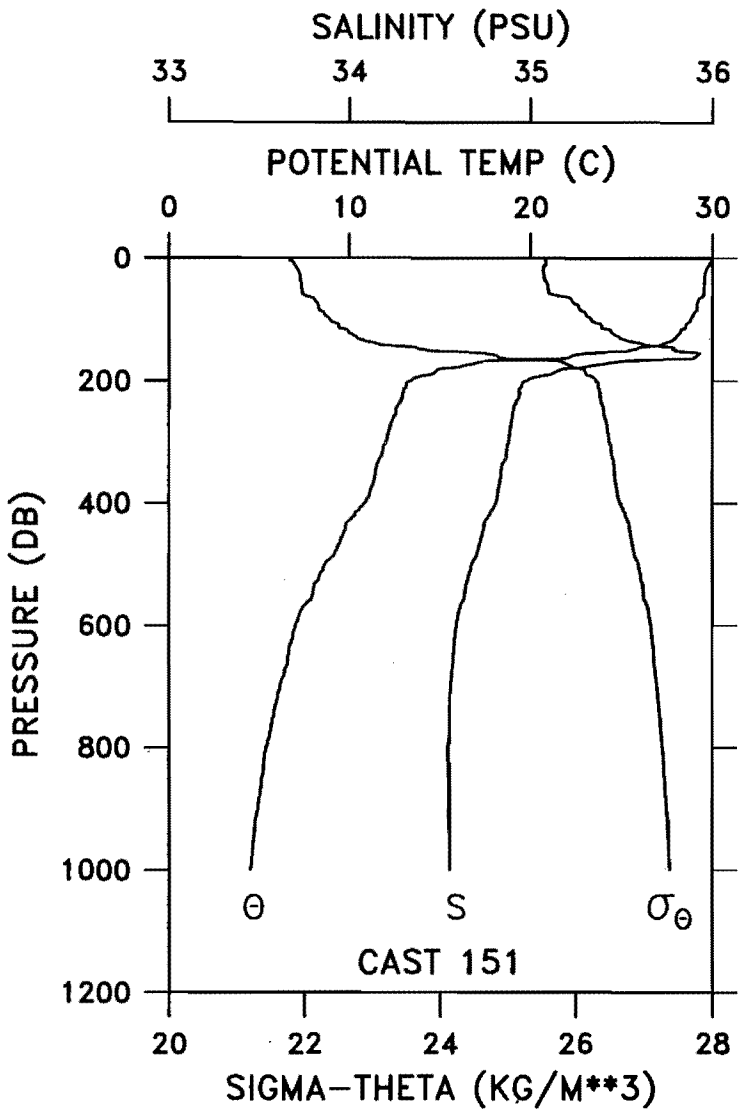
CAST GP7-97-KA-0131 DATE 14 NOV 97 TIME 1151 GMT
LAT 00 59.9S LONG 154 58.3W WEATHER 1 SEA STATE 0
BAROMETER 10 WIND DIR 066 T SPD 06 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 28.0 WET 25.7 DEPTH M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.683	34.001	21.087	0.000
10	29.661	34.002	21.096	0.067
20	29.434	34.003	21.173	0.133
30	29.330	34.003	21.208	0.199
40	29.282	34.017	21.235	0.265
50	29.265	34.021	21.243	0.331
60	29.286	34.043	21.252	0.396
70	29.315	34.080	21.270	0.462
80	29.354	34.135	21.299	0.527
90	29.413	34.229	21.349	0.592
100	29.598	34.488	21.481	0.656
110	29.563	34.618	21.591	0.719
120	29.081	35.019	22.053	0.779
130	25.013	35.452	23.681	0.831
140	20.290	35.264	24.888	0.866
150	17.792	35.279	25.538	0.893
160	16.823	35.190	25.703	0.917
170	15.926	35.199	25.918	0.939
180	14.850	35.130	26.106	0.959
190	14.008	35.067	26.238	0.978
200	13.588	35.010	26.281	0.996
250	12.333	34.888	26.439	1.081
300	12.044	34.865	26.476	1.163
350	11.533	34.840	26.554	1.243
400	10.172	34.762	26.737	1.318
450	9.222	34.696	26.845	1.385
500	8.579	34.660	26.919	1.449
550	7.451	34.602	27.042	1.506
600	6.795	34.571	27.109	1.560
650	6.198	34.558	27.178	1.611
700	5.717	34.552	27.234	1.659
750	5.367	34.548	27.274	1.704
800	5.100	34.547	27.304	1.748
900	4.705	34.548	27.351	1.832
1000	4.328	34.557	27.399	1.911
1003	4.325	34.556	27.399	1.913



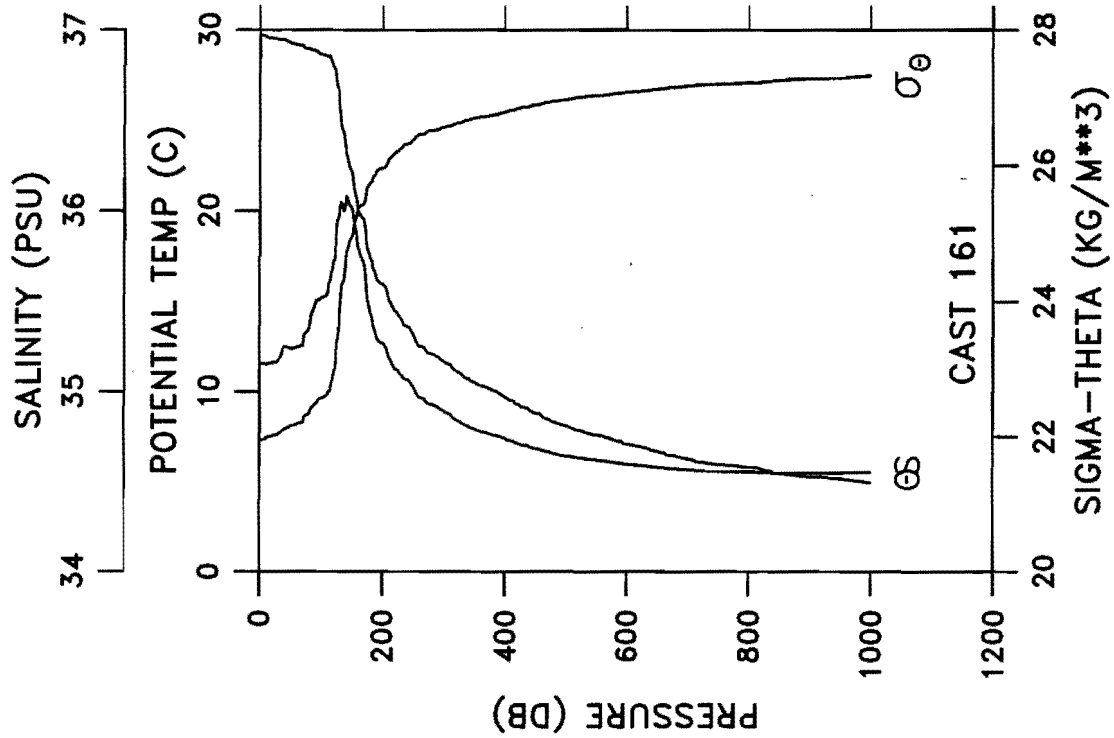
CAST GP7-97-KA-0141 DATE 14 NOV 97 TIME 1910 GMT
LAT 02 00.9S LONG 154 59.0W WEATHER 1 SEA STATE 0
BAROMETER 11 WIND DIR 237 T SPD 06 KT VISIBILITY 7
CLOUD 8 AMOUNT 3 DRY 28.6 WET 25.4 DEPTH 4878 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.564	34.336	21.379	0.000
10	29.554	34.338	21.384	0.064
20	29.546	34.363	21.405	0.128
30	29.538	34.474	21.491	0.192
40	29.539	34.537	21.538	0.254
50	29.527	34.574	21.570	0.317
60	29.511	34.598	21.593	0.380
70	29.543	34.644	21.617	0.442
80	29.563	34.707	21.657	0.504
90	29.526	34.822	21.757	0.565
100	29.425	34.922	21.865	0.626
110	29.397	35.140	22.038	0.685
120	29.014	35.190	22.204	0.743
130	27.096	35.632	23.165	0.796
140	22.013	35.711	24.756	0.834
150	19.607	35.649	25.361	0.865
160	17.062	35.375	25.789	0.889
170	15.136	35.162	26.067	0.910
180	13.771	35.017	26.249	0.929
190	13.144	34.948	26.324	0.947
200	12.883	34.927	26.361	0.964
250	12.329	34.896	26.445	1.048
300	11.956	34.871	26.498	1.129
350	11.648	34.853	26.542	1.208
400	10.797	34.808	26.663	1.285
450	9.736	34.736	26.791	1.355
500	9.015	34.694	26.877	1.420
550	8.029	34.640	26.987	1.480
600	7.518	34.614	27.041	1.537
650	6.928	34.588	27.105	1.591
700	6.486	34.572	27.151	1.643
750	5.959	34.557	27.208	1.692
800	5.533	34.548	27.254	1.739
900	5.073	34.548	27.308	1.829
1000	4.493	34.552	27.378	1.913
1003	4.470	34.552	27.380	1.915



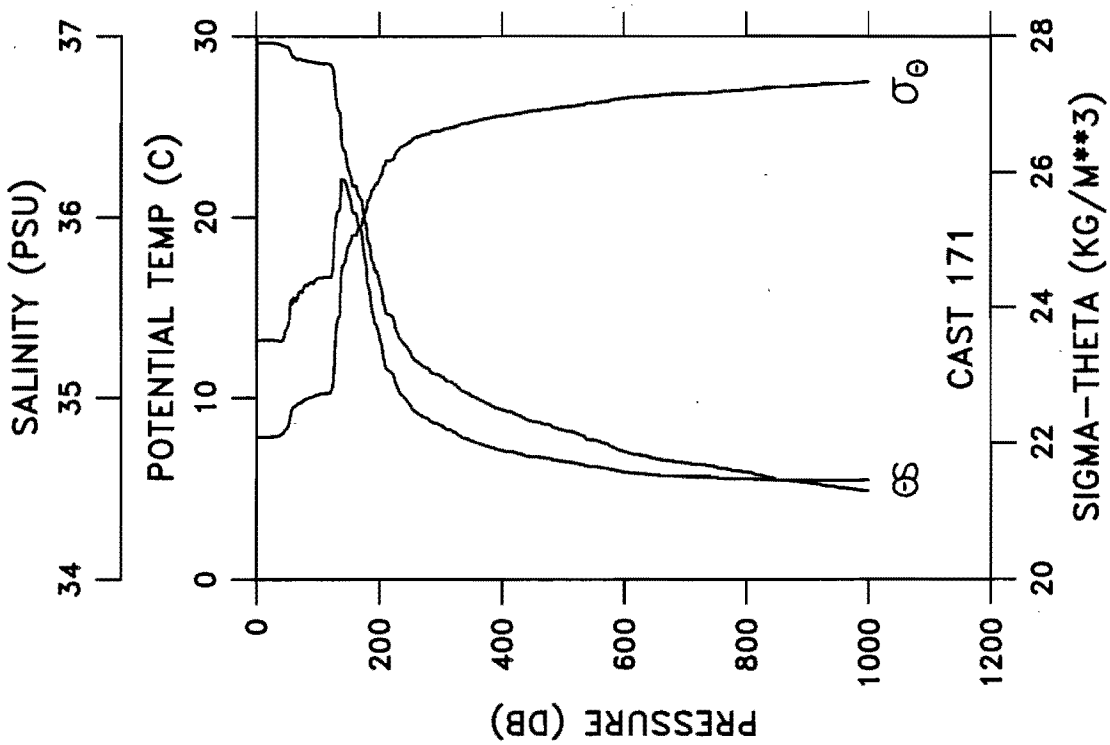
CAST GP7-97-KA-0151 DATE 15 NOV 97 TIME 0244 GMT
LAT 03 00.7S LONG 154 53.9W WEATHER 1 SEA STATE 0
BAROMETER 07 WIND DIR 147 T SPD 01 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 29.4 WET 26.2 DEPTH 4878 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.031	35.080	21.778	0.000
10	29.836	35.083	21.847	0.060
20	29.632	35.067	21.904	0.119
30	29.564	35.074	21.932	0.178
40	29.543	35.089	21.951	0.237
50	29.533	35.096	21.960	0.296
60	29.518	35.135	21.994	0.355
70	29.213	35.229	22.167	0.412
80	29.159	35.266	22.213	0.469
90	28.991	35.303	22.297	0.525
100	28.803	35.336	22.384	0.580
110	28.537	35.391	22.514	0.634
120	28.232	35.445	22.655	0.688
130	27.946	35.495	22.787	0.739
140	27.270	35.626	23.105	0.789
150	25.489	35.797	23.795	0.834
160	22.222	35.909	24.848	0.869
170	17.130	35.443	25.824	0.896
180	15.005	35.183	26.113	0.917
190	14.485	35.094	26.157	0.937
200	13.375	34.972	26.296	0.955
250	12.542	34.903	26.409	1.040
300	12.006	34.878	26.494	1.122
350	11.422	34.838	26.572	1.201
400	10.802	34.806	26.661	1.277
450	9.662	34.734	26.802	1.346
500	8.634	34.675	26.922	1.411
550	7.958	34.636	26.994	1.470
600	6.992	34.590	27.097	1.525
650	6.578	34.573	27.140	1.577
700	6.132	34.560	27.188	1.627
750	5.761	34.553	27.230	1.674
800	5.360	34.543	27.271	1.720
900	4.920	34.551	27.328	1.807
1000	4.465	34.551	27.380	1.889
1004	4.435	34.547	27.380	1.892



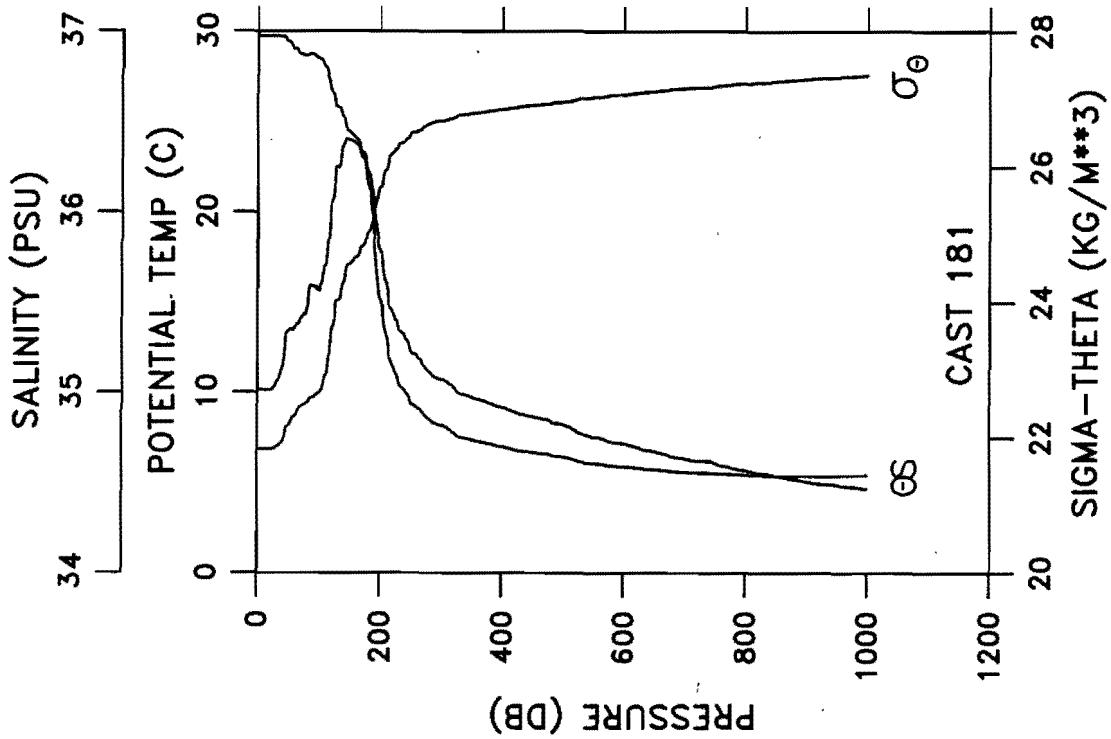
CAST GP7-97-KA-0161 DATE 15 NOV 97 TIME 1008 GMT
LAT 03 59.9S LONG 154 42.8W WEATHER 1 SEA STATE 1
BAROMETER 09 WIND DIR 137 T SPD 01 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 28.0 WET 25.7 DEPTH 4454 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.687	35.158	21.953	0.000
10	29.600	35.152	21.978	0.059
20	29.536	35.161	22.007	0.117
30	29.475	35.175	22.038	0.175
40	29.448	35.251	22.105	0.232
50	29.284	35.243	22.153	0.290
60	29.175	35.250	22.195	0.346
70	29.132	35.258	22.216	0.403
80	28.960	35.353	22.345	0.458
90	28.832	35.488	22.489	0.513
100	28.643	35.523	22.578	0.566
110	28.545	35.539	22.622	0.619
120	27.972	35.719	22.947	0.671
130	25.642	36.019	23.916	0.717
140	23.304	36.064	24.654	0.754
150	22.105	36.009	24.957	0.785
160	19.961	35.792	25.378	0.814
170	19.434	35.700	25.445	0.840
180	17.382	35.434	25.757	0.864
190	16.295	35.302	25.913	0.886
200	15.971	35.268	25.962	0.908
250	13.161	35.029	26.384	1.001
300	11.698	34.893	26.564	1.081
350	10.548	34.794	26.696	1.155
400	9.740	34.741	26.794	1.224
450	8.821	34.684	26.900	1.289
500	8.130	34.643	26.974	1.348
550	7.599	34.619	27.034	1.405
600	7.100	34.596	27.087	1.460
650	6.696	34.580	27.129	1.512
700	6.257	34.566	27.177	1.563
750	5.959	34.557	27.208	1.611
800	5.806	34.553	27.224	1.659
900	5.270	34.549	27.287	1.750
1000	4.916	34.551	27.329	1.838
1004	4.903	34.551	27.331	1.842



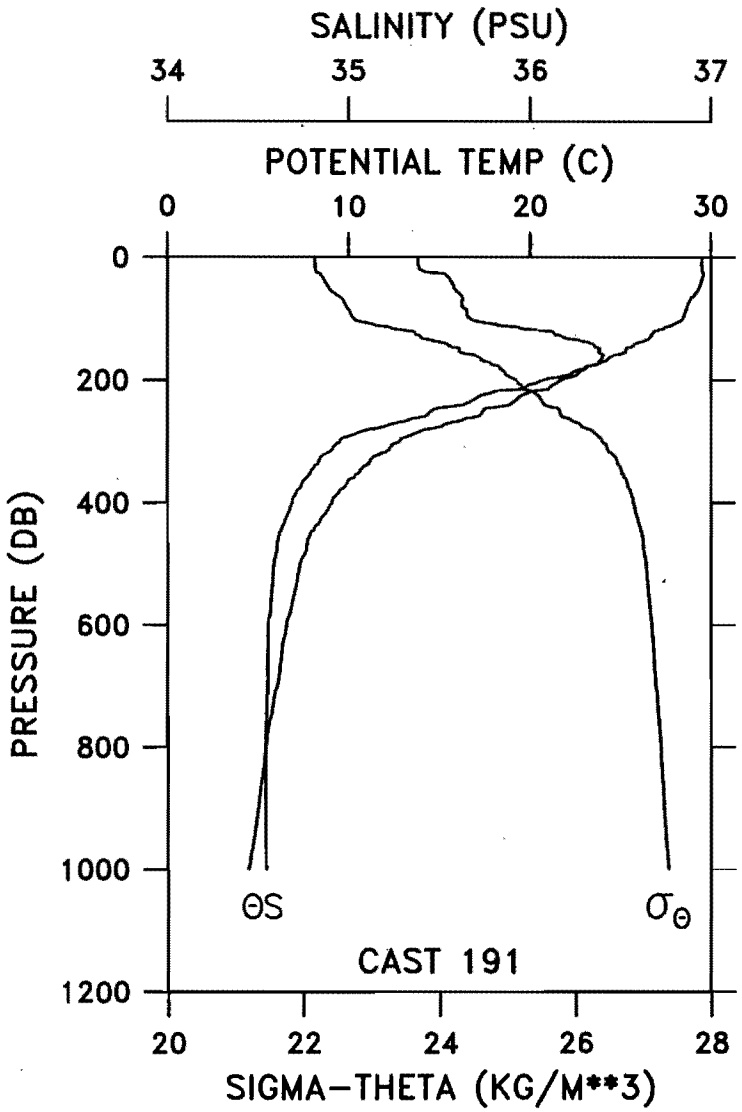
CAST GP7-97-KA-0171 DATE 15 NOV 97 TIME 1655 GMT
LAT 04 57.0S LONG 154 58.0W WEATHER 1 SEA STATE 1
BAROMETER 08 WIND DIR 089 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 28.1 WET 25.6 DEPTH 5063 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.645	35.318	22.088	0.000
10	29.643	35.320	22.090	0.057
20	29.641	35.320	22.091	0.115
30	29.608	35.317	22.100	0.172
40	29.511	35.315	22.131	0.229
50	29.399	35.390	22.225	0.286
60	28.861	35.555	22.530	0.340
70	28.759	35.589	22.589	0.394
80	28.640	35.626	22.656	0.446
90	28.594	35.636	22.680	0.498
100	28.525	35.662	22.722	0.550
110	28.495	35.666	22.735	0.602
120	28.445	35.667	22.752	0.653
130	26.221	36.016	23.733	0.702
140	23.819	36.209	24.613	0.740
150	22.575	36.129	24.914	0.773
160	21.748	36.021	25.066	0.803
170	21.004	35.927	25.200	0.832
180	18.814	35.644	25.562	0.858
190	17.429	35.454	25.761	0.882
200	16.390	35.333	25.915	0.904
250	12.551	34.962	26.453	0.996
300	11.215	34.849	26.619	1.073
350	10.127	34.763	26.746	1.144
400	9.355	34.710	26.834	1.211
450	8.724	34.675	26.908	1.274
500	8.232	34.649	26.964	1.334
550	7.673	34.620	27.024	1.392
600	7.040	34.591	27.091	1.446
650	6.638	34.574	27.133	1.499
700	6.410	34.566	27.157	1.549
750	6.199	34.559	27.179	1.599
800	5.903	34.553	27.212	1.648
900	5.301	34.546	27.280	1.740
1000	4.886	34.546	27.329	1.828
1002	4.878	34.546	27.329	1.830



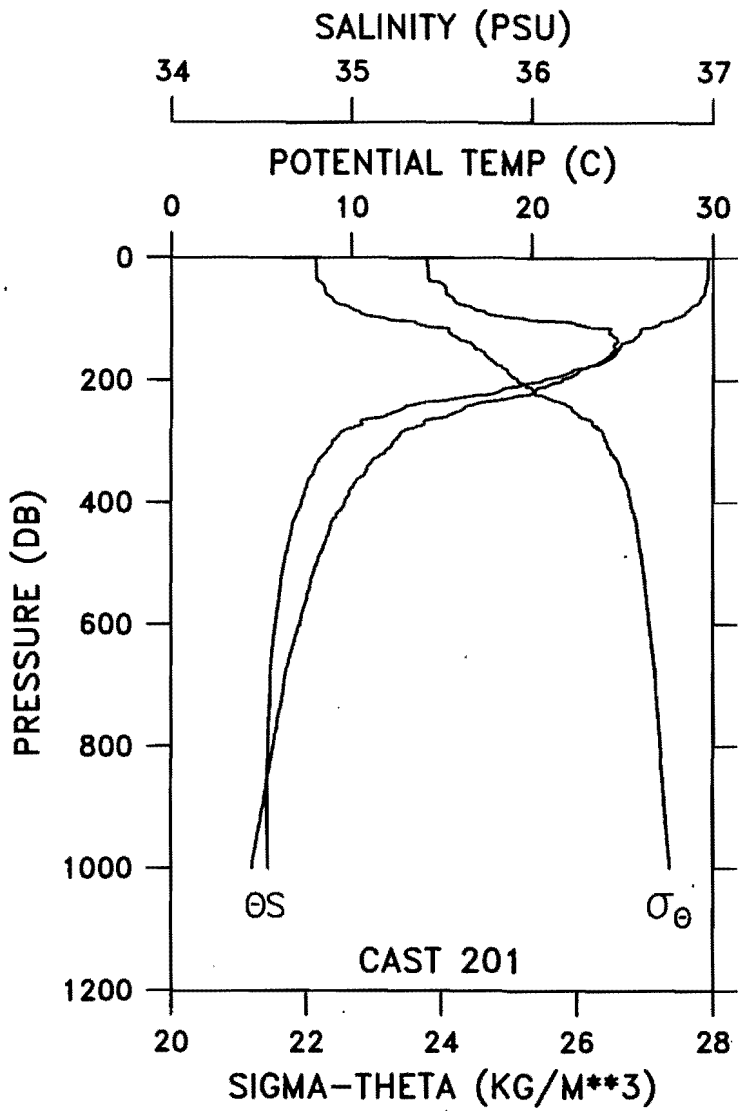
CAST GP7-97-KA-0181 DATE 16 NOV 97 TIME 1010 GMT
LAT 05 59.8S LONG 154 58.6W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 111 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 28.4 WET 26.0 DEPTH 4945 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.731	35.018	21.834	0.000
10	29.733	35.015	21.831	0.060
20	29.729	35.015	21.832	0.120
30	29.731	35.054	21.861	0.179
40	29.713	35.135	21.928	0.239
50	29.424	35.344	22.182	0.296
60	29.039	35.356	22.320	0.352
70	28.742	35.413	22.462	0.407
80	28.683	35.459	22.517	0.461
90	28.730	35.593	22.602	0.514
100	28.504	35.572	22.661	0.566
110	28.017	35.704	22.920	0.618
120	26.755	36.032	23.576	0.665
130	25.840	36.248	24.027	0.707
140	25.233	36.373	24.309	0.745
150	24.447	36.397	24.567	0.780
160	24.063	36.378	24.668	0.814
170	23.317	36.303	24.831	0.847
180	22.239	36.151	25.026	0.878
190	20.035	35.806	25.369	0.907
200	17.905	35.516	25.692	0.932
250	12.267	34.944	26.495	1.025
300	10.738	34.820	26.683	1.100
350	9.764	34.739	26.788	1.169
400	9.203	34.700	26.851	1.234
450	8.674	34.668	26.910	1.296
500	8.226	34.641	26.958	1.356
550	7.533	34.604	27.032	1.414
600	7.182	34.588	27.069	1.469
650	6.748	34.572	27.116	1.522
700	6.330	34.557	27.160	1.573
750	6.056	34.550	27.190	1.622
800	5.672	34.543	27.233	1.670
900	5.063	34.538	27.302	1.760
1000	4.643	34.541	27.352	1.845
1005	4.619	34.541	27.355	1.849



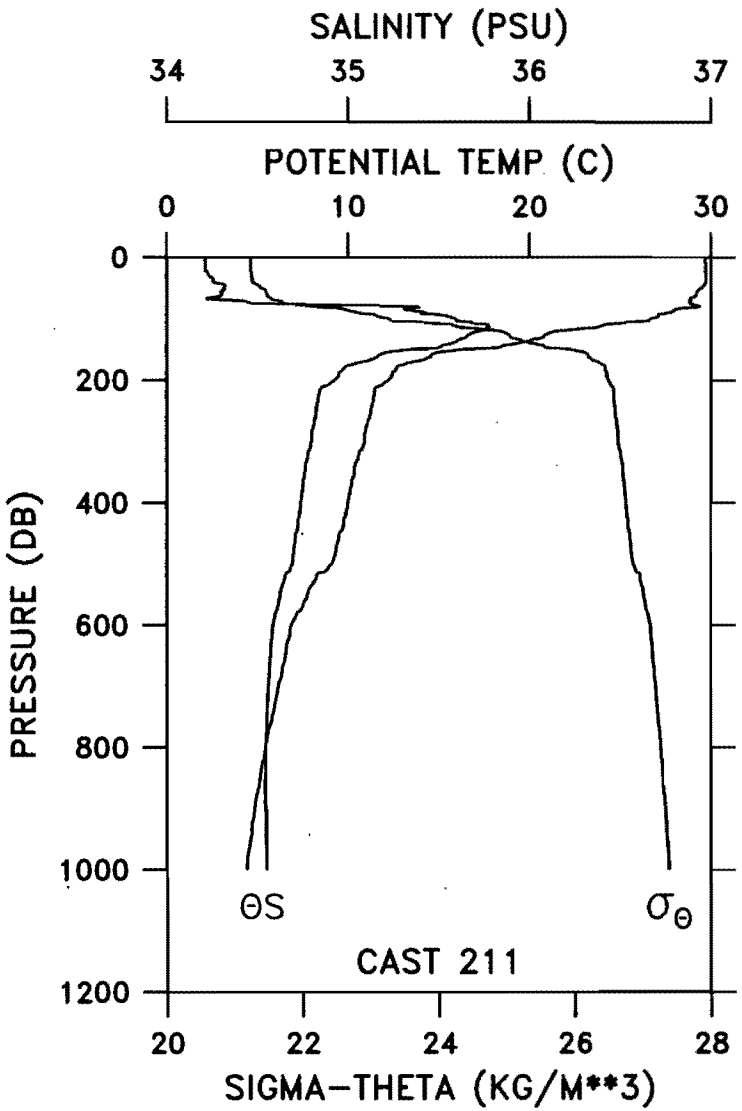
CAST GP7-97-KA-0191 DATE 16 NOV 97 TIME 1716 GMT
LAT 06 59.9S LONG 154 58.0W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 091 T SPD 13 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 28.2 WET 25.7 DEPTH 5217 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.515	35.382	22.180	0.000
10	29.510	35.381	22.181	0.056
20	29.523	35.396	22.188	0.113
30	29.590	35.542	22.275	0.169
40	29.483	35.565	22.328	0.224
50	29.356	35.581	22.383	0.279
60	29.135	35.613	22.482	0.334
70	28.834	35.626	22.592	0.387
80	28.695	35.626	22.639	0.439
90	28.579	35.651	22.696	0.491
100	28.451	35.670	22.752	0.543
110	27.892	35.812	23.043	0.593
120	26.928	36.095	23.568	0.640
130	26.634	36.185	23.730	0.682
140	25.864	36.339	24.089	0.723
150	25.311	36.384	24.294	0.761
160	24.615	36.404	24.522	0.797
170	23.985	36.378	24.691	0.831
180	23.147	36.300	24.879	0.864
190	22.634	36.221	24.967	0.895
200	21.681	36.069	25.121	0.925
250	17.400	35.456	25.770	1.057
300	12.781	34.953	26.401	1.156
350	10.589	34.793	26.689	1.233
400	9.079	34.688	26.861	1.300
450	7.899	34.618	26.989	1.360
500	7.337	34.588	27.047	1.416
550	6.994	34.574	27.084	1.470
600	6.570	34.557	27.128	1.522
650	6.280	34.552	27.163	1.573
700	6.051	34.551	27.192	1.622
750	5.715	34.544	27.228	1.669
800	5.384	34.540	27.266	1.715
900	4.985	34.539	27.312	1.803
1000	4.440	34.545	27.377	1.887
1003	4.422	34.544	27.379	1.889



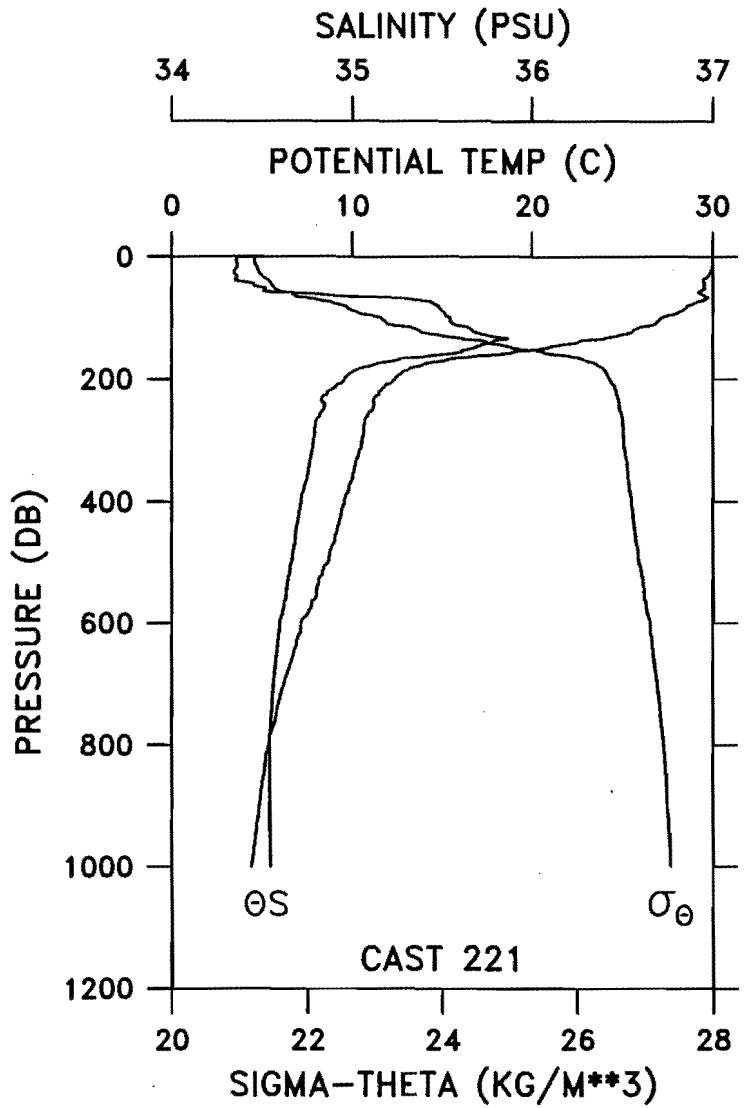
CAST GP7-97-KA-0201 DATE 17 NOV 97 TIME 0706 GMT
LAT 08 16.9S LONG 154 56.7W WEATHER 1 SEA STATE 4
BAROMETER 09 WIND DIR 102 T SPD 09 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 27.7 WET 25.4 DEPTH 5347 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.719	35.420	22.139	0.000
10	29.720	35.422	22.141	0.057
20	29.715	35.425	22.145	0.114
30	29.707	35.427	22.149	0.170
40	29.642	35.492	22.220	0.227
50	29.558	35.527	22.274	0.283
60	29.486	35.534	22.304	0.339
70	29.276	35.572	22.403	0.394
80	28.778	35.665	22.640	0.447
90	28.462	35.748	22.807	0.499
100	27.806	35.973	23.192	0.548
110	26.896	36.278	23.716	0.592
120	26.003	36.427	24.111	0.632
130	25.694	36.465	24.237	0.670
140	24.950	36.453	24.457	0.706
150	24.611	36.477	24.578	0.741
160	24.286	36.451	24.656	0.775
170	23.736	36.389	24.774	0.808
180	22.807	36.259	24.946	0.840
190	22.341	36.176	25.016	0.870
200	21.639	36.058	25.125	0.900
250	15.994	35.257	25.948	1.026
300	12.354	34.897	26.441	1.118
350	10.788	34.791	26.651	1.196
400	9.637	34.724	26.798	1.265
450	8.742	34.665	26.897	1.328
500	8.098	34.626	26.966	1.389
550	7.571	34.599	27.022	1.446
600	7.178	34.577	27.061	1.501
650	6.597	34.557	27.125	1.554
700	6.245	34.548	27.164	1.605
750	5.911	34.540	27.200	1.654
800	5.625	34.535	27.232	1.702
900	5.069	34.530	27.295	1.793
1000	4.473	34.536	27.367	1.877
1005	4.425	34.538	27.373	1.881



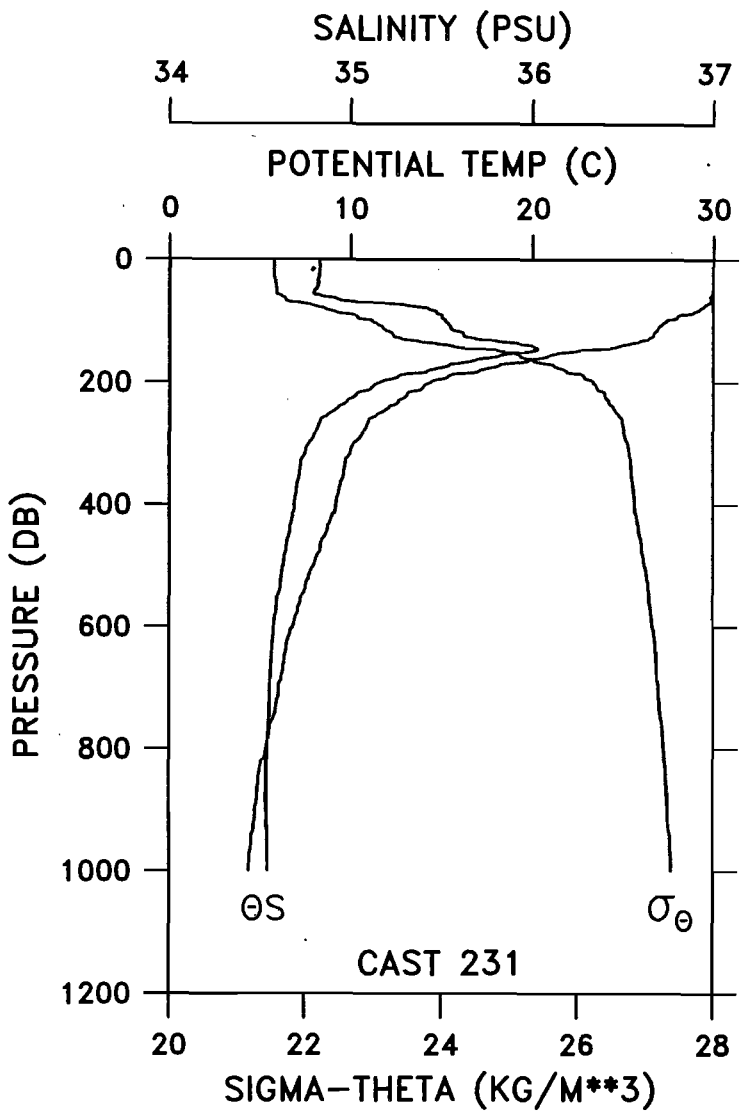
CAST GP7-97-KA-0211 DATE 21 NOV 97 TIME 1451 GMT
LAT 02 16.0S LONG 169 57.5W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 254 T SPD 11 KT VISIBILITY 7
CLOUD 7 AMOUNT 3 DRY 27.7 WET 25.4 DEPTH 4387 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.700	34.214	21.241	0.000
10	29.709	34.212	21.237	0.065
20	29.710	34.213	21.237	0.131
30	29.730	34.232	21.245	0.196
40	29.738	34.255	21.259	0.262
50	29.483	34.315	21.390	0.327
60	29.198	34.302	21.477	0.390
70	28.918	34.394	21.639	0.453
80	29.387	35.381	22.223	0.513
90	27.646	35.428	22.834	0.566
100	26.644	35.595	23.282	0.614
110	24.071	35.771	24.206	0.657
120	21.398	35.708	24.925	0.691
130	20.742	35.648	25.059	0.721
140	19.273	35.566	25.385	0.749
150	16.206	35.327	25.953	0.773
160	14.567	35.168	26.197	0.793
170	13.547	35.078	26.342	0.811
180	12.672	34.982	26.445	0.827
190	12.420	34.949	26.469	0.843
200	12.209	34.928	26.493	0.859
250	11.268	34.826	26.592	0.935
300	10.917	34.799	26.634	1.009
350	10.361	34.764	26.705	1.081
400	9.998	34.740	26.750	1.151
450	9.522	34.712	26.808	1.219
500	9.107	34.691	26.859	1.284
550	7.764	34.625	27.014	1.344
600	6.864	34.585	27.111	1.398
650	6.539	34.571	27.144	1.450
700	6.143	34.560	27.187	1.499
750	5.798	34.552	27.225	1.547
800	5.447	34.546	27.263	1.593
900	4.838	34.545	27.333	1.681
1000	4.411	34.551	27.385	1.762
1500	2.779	34.604	27.589	2.104
2000	2.067	34.642	27.680	2.380
2500	1.700	34.660	27.722	2.628
3000	1.455	34.673	27.751	2.862
3002	1.454	34.673	27.751	2.862



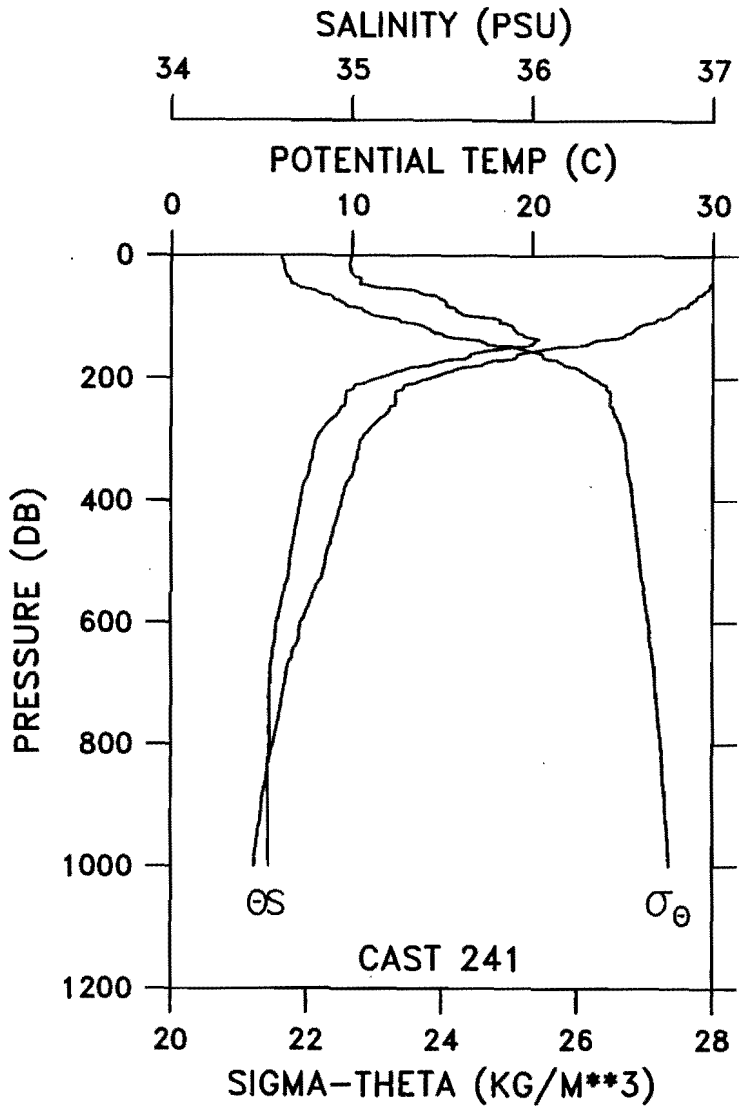
CAST GP7-97-KA-0221 DATE 22 NOV 97 TIME 1215 GMT
LAT 02 59.9S LONG 170 00.4W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 357 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 1 DRY 28.4 WET 26.0 DEPTH 5094 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.083	34.361	21.222	0.000
10	30.074	34.360	21.223	0.066
20	29.921	34.354	21.271	0.131
30	29.760	34.359	21.330	0.196
40	29.477	34.383	21.444	0.260
50	29.560	34.509	21.510	0.324
60	29.334	34.763	21.777	0.386
70	29.525	35.355	22.157	0.445
80	28.572	35.481	22.570	0.500
90	28.125	35.509	22.738	0.552
100	27.100	35.545	23.099	0.602
110	26.816	35.565	23.204	0.650
120	25.621	35.667	23.656	0.694
130	24.465	35.790	24.102	0.736
140	22.512	35.773	24.662	0.771
150	20.556	35.654	25.114	0.802
160	17.814	35.488	25.693	0.828
170	15.051	35.227	26.137	0.849
180	13.397	35.068	26.365	0.867
190	12.754	34.990	26.435	0.883
200	12.359	34.957	26.487	0.899
250	11.098	34.839	26.633	0.975
300	10.532	34.784	26.691	1.046
350	10.101	34.756	26.745	1.115
400	9.566	34.716	26.803	1.183
450	9.138	34.688	26.852	1.248
500	8.650	34.664	26.911	1.311
550	8.007	34.634	26.986	1.370
600	7.162	34.597	27.079	1.426
650	6.738	34.580	27.124	1.479
700	6.198	34.562	27.182	1.530
750	5.786	34.551	27.225	1.577
800	5.349	34.543	27.272	1.623
900	4.835	34.541	27.331	1.710
1000	4.384	34.546	27.384	1.791
1002	4.378	34.546	27.385	1.793



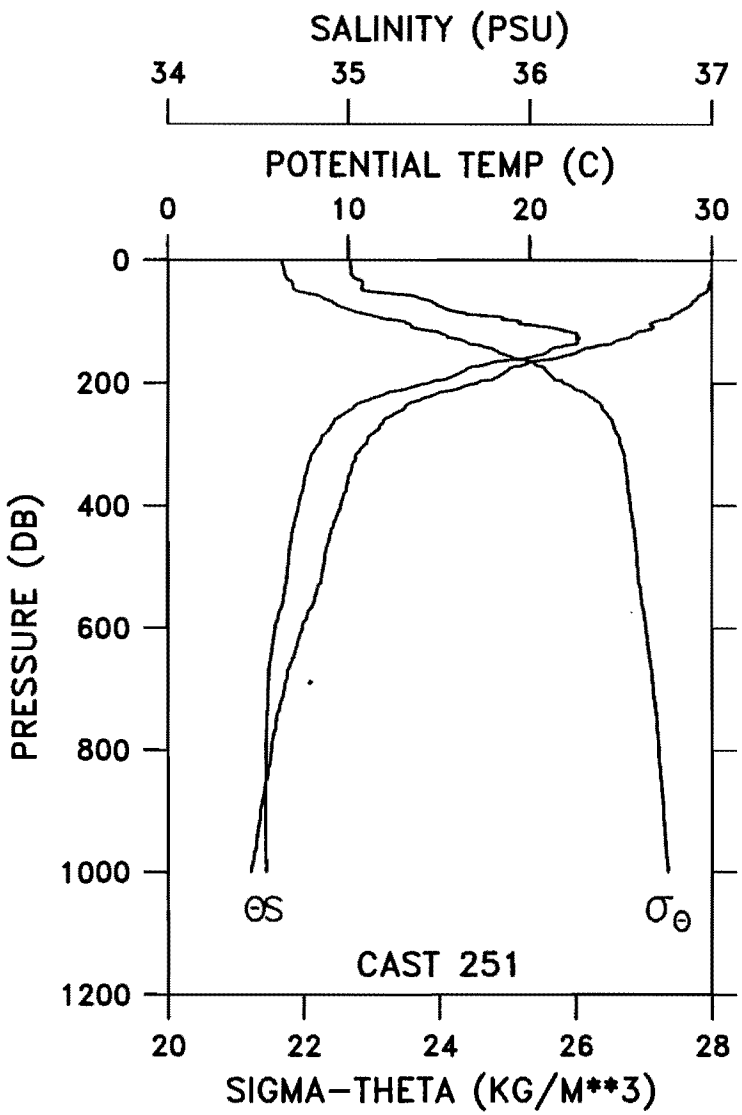
CAST GP7-97-KA-0231 DATE 22 NOV 97 TIME 1917 GMT
LAT 03 59.7S LONG 169 59.9W WEATHER 1 SEA STATE 0
BAROMETER 08 WIND DIR 033 T SPD 03 KT VISIBILITY 7
CLOUD 8 AMOUNT 1 DRY 29.4 WET 27.4 DEPTH 5626 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.185	34.830	21.538	0.000
10	30.181	34.831	21.540	0.063
20	30.173	34.833	21.545	0.125
30	30.126	34.827	21.556	0.188
40	30.052	34.823	21.578	0.250
50	29.992	34.804	21.585	0.313
60	29.843	34.847	21.668	0.375
70	29.755	35.135	21.913	0.436
80	29.261	35.430	22.302	0.493
90	28.147	35.499	22.724	0.547
100	27.398	35.522	22.985	0.598
110	26.974	35.549	23.142	0.646
120	26.701	35.618	23.281	0.693
130	26.368	35.702	23.449	0.739
140	24.871	36.000	24.138	0.781
150	22.337	35.984	24.872	0.816
160	20.513	35.763	25.208	0.845
170	18.460	35.550	25.579	0.871
180	17.114	35.431	25.818	0.895
190	15.339	35.261	26.099	0.916
200	14.406	35.162	26.227	0.935
250	11.582	34.890	26.583	1.019
300	10.195	34.773	26.742	1.090
350	9.637	34.721	26.796	1.157
400	9.214	34.691	26.842	1.222
450	8.618	34.662	26.914	1.284
500	7.986	34.630	26.985	1.344
550	7.315	34.599	27.059	1.400
600	6.846	34.580	27.110	1.453
650	6.390	34.567	27.160	1.504
700	6.067	34.557	27.195	1.553
750	5.743	34.552	27.231	1.600
800	5.353	34.542	27.271	1.646
900	4.772	34.537	27.335	1.732
1000	4.414	34.546	27.381	1.813
1005	4.378	34.547	27.386	1.817



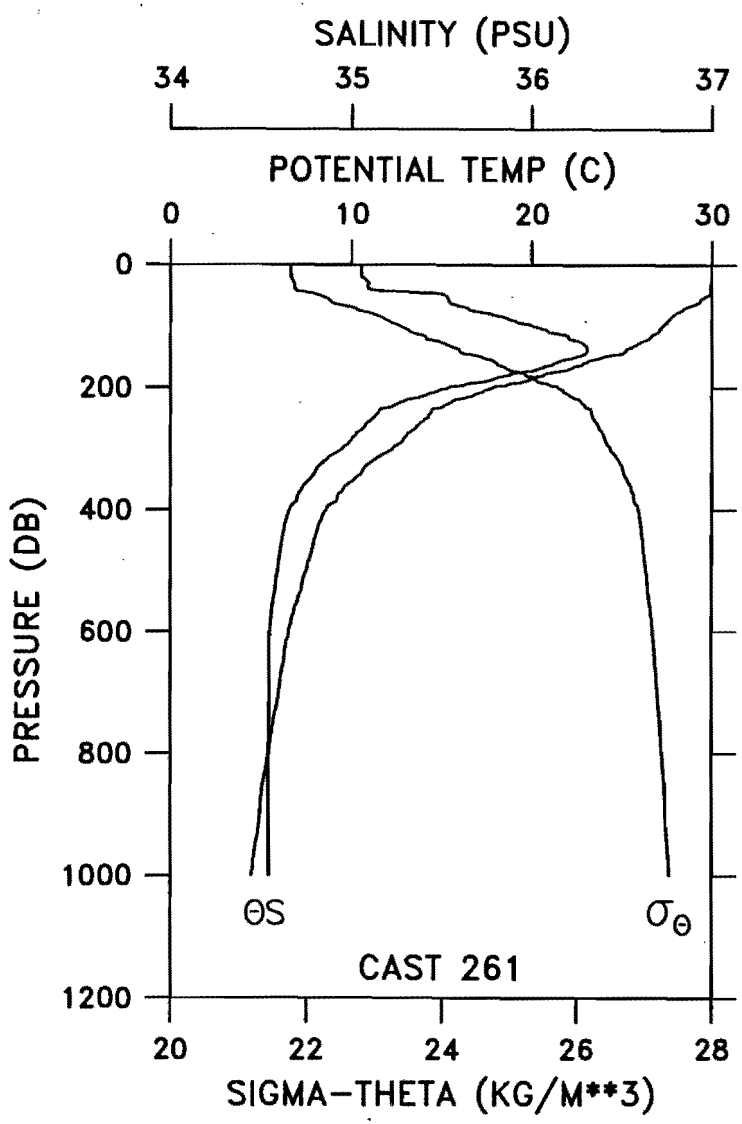
CAST GP7-97-KA-0241 DATE 23 NOV 97 TIME 0251 GMT
LAT 04 59.2S LONG 169 59.1W WEATHER 1 SEA STATE 0
BAROMETER 05 WIND DIR 350 T SPD 02 KT VISIBILITY 7
CLOUD 8 AMOUNT 2 DRY 31.2 WET 27.3 DEPTH 5434 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.307	34.996	21.620	0.000
10	30.218	34.992	21.648	0.062
20	30.150	34.996	21.674	0.123
30	30.104	35.006	21.697	0.184
40	30.028	35.054	21.759	0.245
50	29.832	35.115	21.872	0.306
60	29.515	35.374	22.174	0.364
70	29.069	35.487	22.409	0.419
80	28.648	35.526	22.578	0.473
90	27.965	35.579	22.843	0.524
100	27.408	35.708	23.122	0.573
110	26.434	35.858	23.547	0.619
120	25.653	35.905	23.826	0.661
130	25.115	35.953	24.028	0.702
140	23.370	36.011	24.595	0.739
150	21.143	35.855	25.107	0.771
160	19.198	35.661	25.477	0.798
170	18.007	35.537	25.682	0.823
180	16.788	35.386	25.862	0.846
190	15.247	35.243	26.105	0.867
200	14.305	35.142	26.233	0.886
250	12.074	34.935	26.525	0.968
300	10.540	34.803	26.705	1.042
350	10.117	34.767	26.750	1.111
400	9.442	34.716	26.824	1.177
450	8.958	34.684	26.877	1.241
500	8.522	34.656	26.924	1.303
550	7.874	34.623	26.997	1.363
600	7.168	34.581	27.066	1.419
650	6.716	34.560	27.111	1.473
700	6.304	34.547	27.156	1.524
750	5.969	34.541	27.194	1.573
800	5.612	34.542	27.239	1.621
900	5.005	34.539	27.309	1.710
1000	4.582	34.541	27.359	1.795
1005	4.571	34.541	27.360	1.799



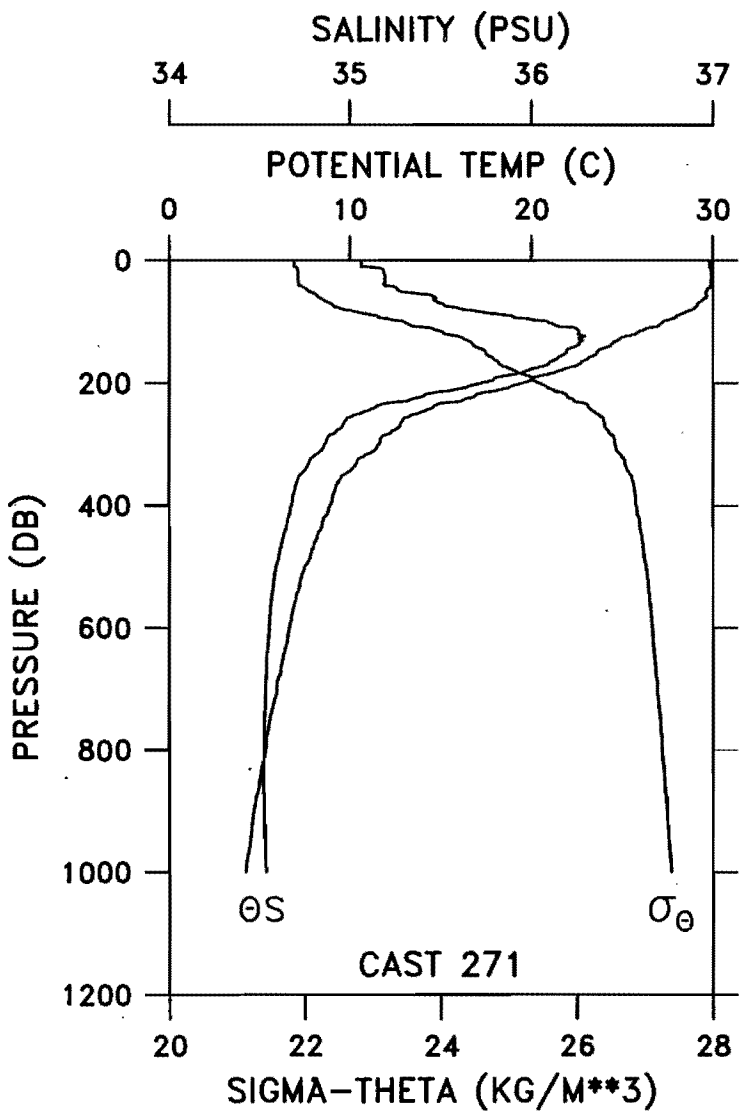
CAST GP7-97-KA-0251 DATE 23 NOV 97 TIME 0955 GMT
LAT 05 59.9S LONG 170 00.4W WEATHER 8 SEA STATE 3
BAROMETER 09 WIND DIR 170 T SPD 03 KT VISIBILITY 4
CLOUD 7 AMOUNT 8 DRY 26.0 WET 24.5 DEPTH 4810 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.166	35.015	21.683	0.000
10	30.120	35.015	21.699	0.061
20	30.060	35.017	21.721	0.122
30	30.015	35.041	21.754	0.183
40	29.833	35.079	21.845	0.243
50	29.726	35.098	21.895	0.303
60	29.230	35.380	22.275	0.360
70	28.892	35.474	22.459	0.415
80	28.418	35.541	22.666	0.468
90	27.796	35.732	23.014	0.519
100	26.848	35.948	23.483	0.566
110	26.804	36.124	23.629	0.609
120	25.778	36.259	24.055	0.650
130	24.824	36.261	24.350	0.688
140	23.617	36.177	24.648	0.723
150	22.598	36.092	24.879	0.755
160	21.436	35.972	25.115	0.786
170	19.696	35.755	25.420	0.813
180	18.768	35.640	25.571	0.838
190	18.219	35.567	25.653	0.862
200	17.091	35.441	25.832	0.885
250	12.529	34.977	26.469	0.978
300	10.940	34.837	26.660	1.054
350	10.053	34.763	26.758	1.124
400	9.580	34.724	26.808	1.191
450	8.975	34.684	26.875	1.255
500	8.610	34.662	26.915	1.317
550	8.146	34.638	26.968	1.378
600	7.442	34.592	27.035	1.435
650	6.873	34.567	27.095	1.490
700	6.434	34.552	27.143	1.542
750	5.978	34.546	27.197	1.592
800	5.715	34.541	27.226	1.640
900	5.104	34.539	27.298	1.731
1000	4.593	34.543	27.359	1.816
1004	4.581	34.542	27.359	1.820



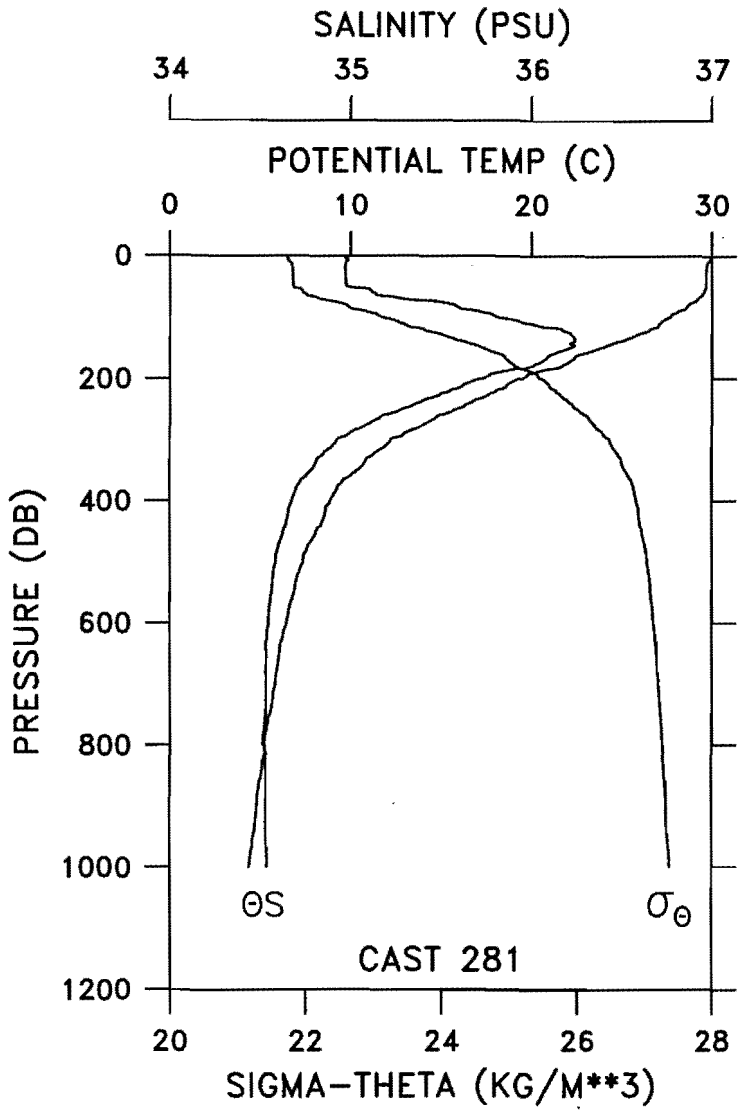
CAST GP7-97-KA-0261 DATE 23 NOV 97 TIME 1647 GMT
LAT 07 00.0S LONG 170 02.4W WEATHER 8 SEA STATE 3
BAROMETER 07 WIND DIR 205 T SPD 04 KT VISIBILITY 7
CLOUD 7 AMOUNT 8 DRY 27.3 WET 25.4 DEPTH 5186 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.991	35.055	21.773	0.000
10	29.988	35.053	21.773	0.060
20	29.985	35.057	21.777	0.121
30	29.944	35.098	21.821	0.181
40	29.904	35.099	21.835	0.241
50	29.740	35.517	22.205	0.299
60	29.321	35.540	22.364	0.354
70	28.487	35.639	22.717	0.408
80	27.966	35.773	22.990	0.459
90	27.628	35.887	23.186	0.507
100	27.280	36.013	23.393	0.553
110	27.000	36.102	23.550	0.597
120	26.569	36.205	23.765	0.640
130	25.846	36.294	24.060	0.680
140	25.219	36.308	24.265	0.718
150	23.976	36.246	24.594	0.754
160	22.912	36.127	24.816	0.787
170	22.071	36.031	24.983	0.818
180	20.655	35.870	25.251	0.847
190	19.575	35.735	25.436	0.873
200	17.812	35.536	25.730	0.898
250	14.184	35.121	26.242	0.999
300	12.239	34.947	26.503	1.085
350	10.156	34.768	26.745	1.159
400	8.604	34.658	26.913	1.223
450	7.925	34.614	26.982	1.282
500	7.494	34.592	27.027	1.338
550	6.996	34.566	27.077	1.393
600	6.532	34.549	27.127	1.445
650	6.241	34.545	27.162	1.495
700	5.953	34.546	27.200	1.544
750	5.658	34.544	27.235	1.591
800	5.395	34.541	27.265	1.637
900	4.919	34.540	27.320	1.724
1000	4.451	34.545	27.376	1.807
1002	4.438	34.545	27.378	1.808



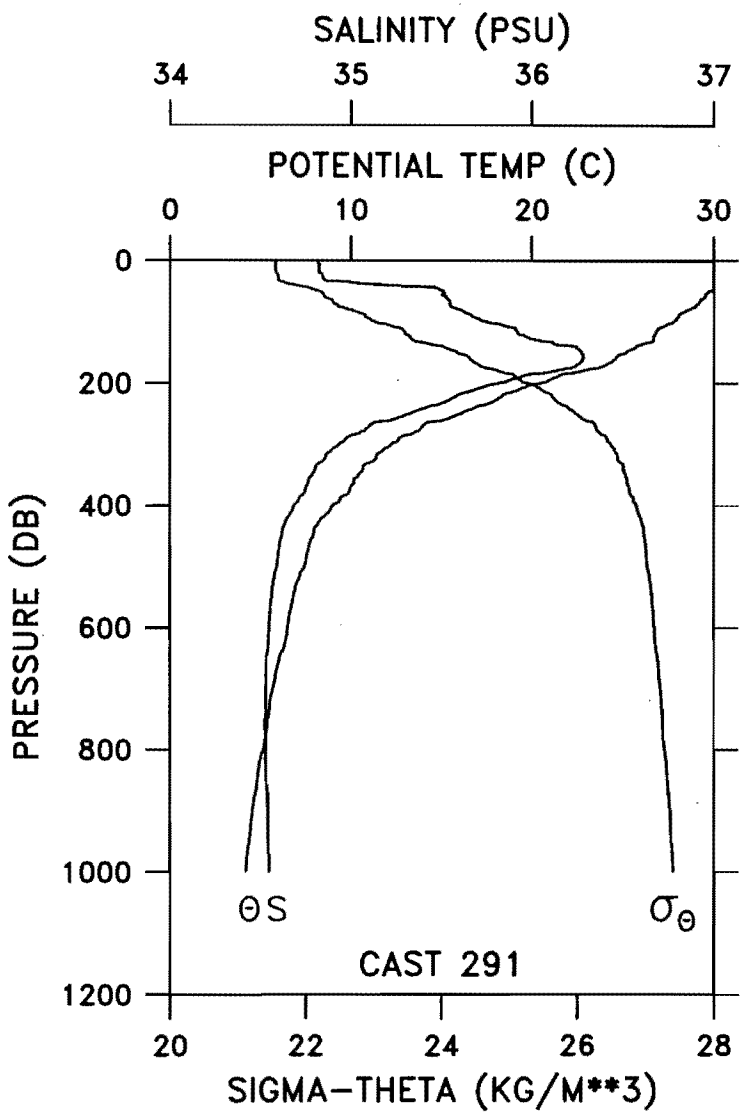
CAST GP7-97-KA-0271 DATE 24 NOV 97 TIME 0935 GMT
LAT 07 58.6S LONG 170 01.9W WEATHER 5 SEA STATE 3
BAROMETER 09 WIND DIR 133 T SPD 06 KT VISIBILITY 4
CLOUD 7 AMOUNT 8 DRY 24.8 WET 23.5 DEPTH 5372 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.805	35.066	21.844	0.000
10	29.803	35.063	21.843	0.060
20	29.908	35.188	21.901	0.119
30	29.905	35.192	21.905	0.178
40	29.882	35.189	21.910	0.237
50	29.623	35.274	22.063	0.296
60	29.641	35.468	22.202	0.353
70	29.180	35.506	22.386	0.408
80	28.858	35.627	22.585	0.462
90	27.998	35.893	23.069	0.513
100	27.242	36.088	23.462	0.560
110	26.410	36.242	23.843	0.603
120	25.702	36.256	24.076	0.643
130	24.739	36.283	24.392	0.680
140	24.300	36.248	24.498	0.715
150	23.613	36.192	24.660	0.749
160	23.119	36.144	24.768	0.782
170	22.581	36.085	24.879	0.814
180	21.504	35.971	25.096	0.844
190	20.165	35.811	25.338	0.873
200	19.448	35.719	25.457	0.899
250	13.669	35.048	26.294	1.007
300	11.573	34.860	26.561	1.089
350	9.612	34.723	26.801	1.160
400	8.902	34.674	26.879	1.224
450	8.187	34.631	26.956	1.284
500	7.495	34.590	27.026	1.342
550	7.017	34.566	27.075	1.396
600	6.624	34.553	27.118	1.449
650	6.271	34.538	27.153	1.500
700	5.951	34.532	27.190	1.549
750	5.560	34.527	27.234	1.596
800	5.331	34.523	27.259	1.642
900	4.676	34.524	27.334	1.729
1000	4.231	34.536	27.393	1.810
1004	4.225	34.535	27.393	1.813



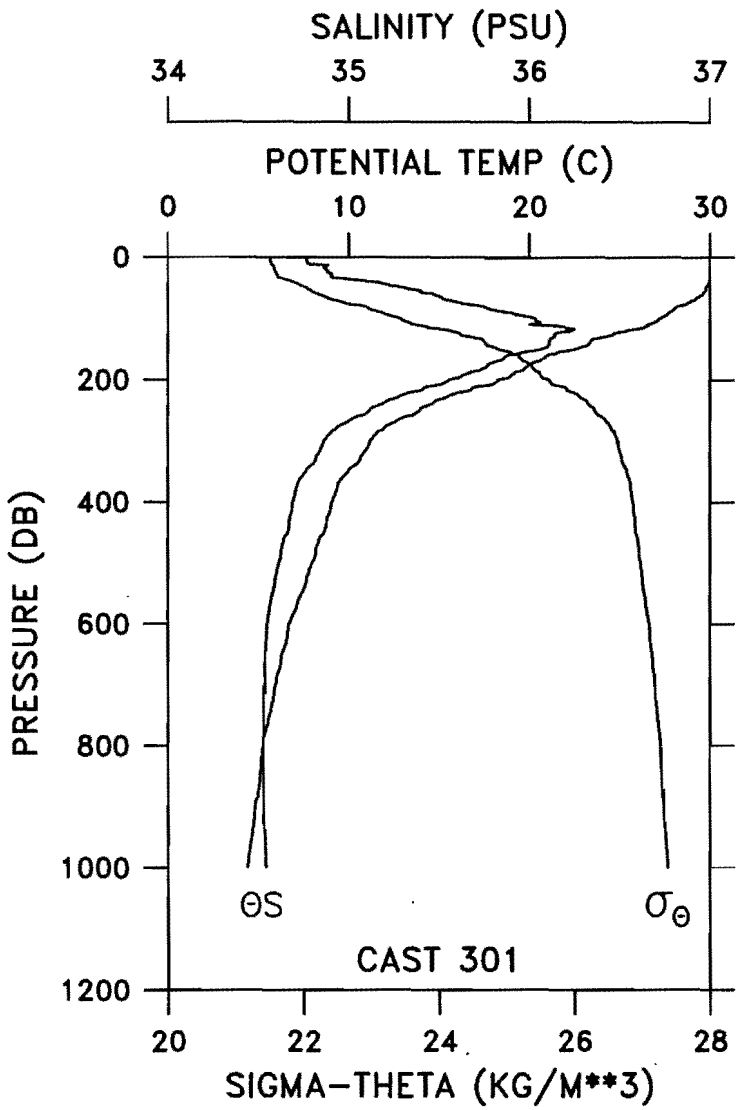
CAST GP7-97-KA-0281 DATE 27 NOV 97 TIME 0738 GMT
LAT 07 57.2S LONG 179 52.0W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 104 T SPD 07 KT VISIBILITY 7
CLOUD 4 AMOUNT 2 DRY 28.3 WET 23.5 DEPTH 4730 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.910	34.972	21.738	0.000
10	29.792	34.975	21.780	0.061
20	29.699	34.971	21.809	0.121
30	29.684	34.971	21.814	0.181
40	29.679	34.975	21.819	0.241
50	29.675	34.988	21.831	0.301
60	29.527	35.129	21.986	0.360
70	29.198	35.299	22.225	0.417
80	28.664	35.580	22.614	0.472
90	28.114	35.710	22.893	0.523
100	27.623	35.817	23.134	0.572
110	27.088	35.994	23.440	0.618
120	26.545	36.170	23.747	0.662
130	25.650	36.230	24.073	0.702
140	24.680	36.223	24.365	0.740
150	23.739	36.203	24.632	0.775
160	22.633	36.108	24.881	0.807
170	22.164	36.063	24.981	0.838
180	21.561	35.991	25.095	0.868
190	20.069	35.804	25.358	0.896
200	19.295	35.709	25.488	0.922
250	15.777	35.278	26.013	1.038
300	12.224	34.926	26.489	1.130
350	10.354	34.781	26.720	1.205
400	8.884	34.674	26.882	1.270
450	8.112	34.626	26.964	1.331
500	7.369	34.585	27.040	1.387
550	6.864	34.562	27.093	1.440
600	6.457	34.546	27.135	1.492
650	6.050	34.536	27.180	1.541
700	5.831	34.534	27.206	1.589
750	5.522	34.530	27.241	1.636
800	5.224	34.519	27.268	1.681
900	4.823	34.531	27.324	1.768
1000	4.392	34.536	27.376	1.851
1004	4.363	34.534	27.377	1.854



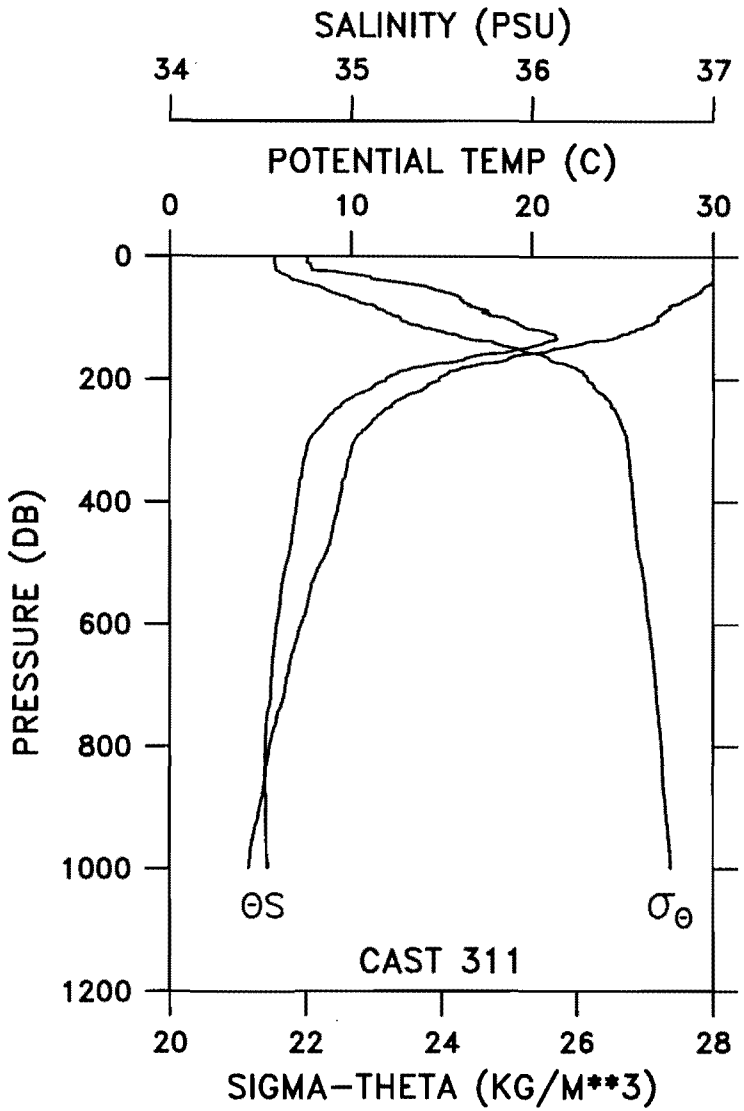
CAST GP7-97-KA-0291 DATE 27 NOV 97 TIME 1459 GMT
LAT 07 00.1S LONG 179 54.7W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 230 T SPD 02 KT VISIBILITY 7
CLOUD 4 AMOUNT 2 DRY 27.1 WET 25.0 DEPTH 4632 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.132	34.821	21.550	0.000
10	30.134	34.823	21.550	0.062
20	30.091	34.828	21.568	0.125
30	30.058	34.849	21.595	0.187
40	30.103	35.201	21.844	0.248
50	29.706	35.514	22.214	0.306
60	29.491	35.533	22.301	0.362
70	29.140	35.548	22.431	0.417
80	28.591	35.609	22.660	0.470
90	28.082	35.669	22.873	0.521
100	27.786	35.757	23.036	0.571
110	26.989	35.912	23.411	0.618
120	26.781	35.931	23.491	0.663
130	26.704	36.040	23.598	0.707
140	25.786	36.250	24.046	0.748
150	25.209	36.275	24.243	0.786
160	24.612	36.281	24.430	0.823
170	24.079	36.250	24.566	0.858
180	22.766	36.126	24.857	0.891
190	21.365	35.933	25.105	0.921
200	20.392	35.808	25.275	0.950
250	15.983	35.313	25.993	1.069
300	12.214	34.931	26.495	1.160
350	10.403	34.783	26.713	1.235
400	8.974	34.683	26.875	1.302
450	7.913	34.616	26.985	1.361
500	7.434	34.588	27.034	1.417
550	6.801	34.560	27.100	1.470
600	6.483	34.547	27.132	1.522
650	6.039	34.533	27.179	1.572
700	5.662	34.529	27.223	1.619
750	5.365	34.525	27.256	1.665
800	5.146	34.527	27.284	1.710
900	4.544	34.538	27.361	1.794
1000	4.169	34.547	27.408	1.872
1003	4.165	34.547	27.408	1.875



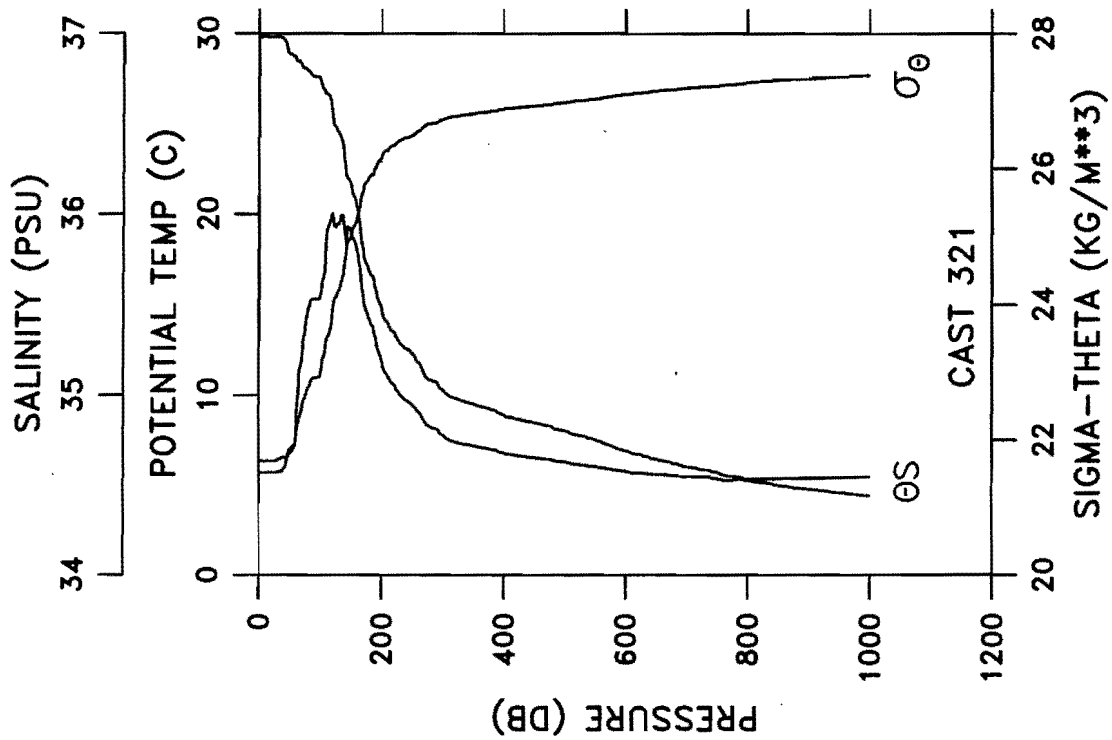
CAST GP7-97-KA-0301 DATE 27 NOV 97 TIME 2203 GMT
LAT 05 59.8S LONG 179 57.2W WEATHER 1 SEA STATE 0
BAROMETER 09 WIND DIR 292 T SPD 01 KT VISIBILITY 7
CLOUD 4 AMOUNT 3 DRY 28.5 WET 26.0 DEPTH 4683 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.166	34.769	21.499	0.000
10	30.108	34.770	21.519	0.063
20	30.184	34.874	21.571	0.125
30	30.118	34.907	21.619	0.188
40	29.960	35.141	21.848	0.249
50	29.755	35.315	22.049	0.307
60	29.595	35.470	22.219	0.365
70	29.011	35.562	22.485	0.420
80	28.137	35.751	22.916	0.472
90	27.724	35.898	23.163	0.521
100	27.183	36.038	23.443	0.567
110	26.573	36.082	23.671	0.611
120	25.290	36.212	24.171	0.651
130	23.951	36.128	24.512	0.688
140	23.296	36.109	24.690	0.721
150	22.455	36.054	24.891	0.753
160	20.968	35.878	25.173	0.783
170	20.309	35.806	25.296	0.811
180	19.775	35.750	25.395	0.838
190	19.089	35.645	25.493	0.864
200	18.252	35.552	25.633	0.889
250	13.891	35.113	26.298	0.992
300	11.182	34.863	26.636	1.071
350	9.996	34.763	26.768	1.142
400	9.063	34.688	26.864	1.207
450	8.644	34.661	26.910	1.269
500	7.946	34.612	26.977	1.329
550	7.384	34.577	27.032	1.386
600	6.664	34.548	27.109	1.440
650	6.284	34.539	27.152	1.491
700	5.925	34.533	27.194	1.540
750	5.604	34.530	27.231	1.588
800	5.258	34.527	27.270	1.633
900	4.817	34.529	27.323	1.721
1000	4.381	34.542	27.382	1.803
1003	4.370	34.542	27.383	1.805



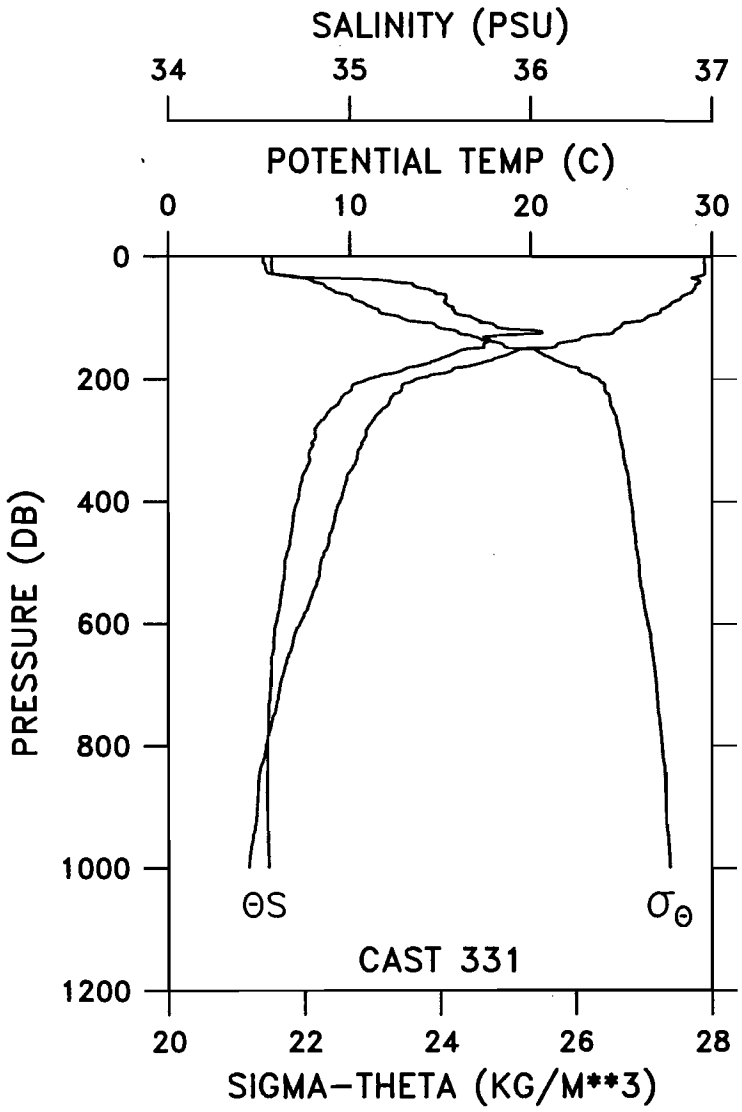
CAST GP7-97-KA-0311 DATE 28 NOV 97 TIME 0540 GMT
LAT 04 59.5S LONG 179 57.8W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 237 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 6 DRY 27.7 WET 25.6 DEPTH 5521 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	30.033	34.759	21.537	0.000
10	30.030	34.757	21.536	0.063
20	30.026	34.781	21.555	0.125
30	30.212	35.031	21.679	0.187
40	30.005	35.214	21.888	0.248
50	29.494	35.423	22.218	0.305
60	29.143	35.548	22.430	0.361
70	28.450	35.610	22.708	0.414
80	27.632	35.652	23.007	0.464
90	27.311	35.730	23.169	0.513
100	26.936	35.859	23.388	0.559
110	26.619	35.917	23.532	0.604
120	25.693	36.046	23.920	0.646
130	24.779	36.130	24.265	0.685
140	22.918	36.066	24.768	0.720
150	21.225	35.936	25.146	0.750
160	19.312	35.715	25.489	0.778
170	18.394	35.592	25.629	0.803
180	16.315	35.361	25.953	0.825
190	15.355	35.253	26.089	0.845
200	14.855	35.193	26.154	0.865
250	11.799	34.908	26.557	0.950
300	10.200	34.770	26.739	1.022
350	9.733	34.732	26.788	1.090
400	9.341	34.703	26.831	1.155
450	8.952	34.678	26.874	1.219
500	8.327	34.644	26.945	1.281
550	7.721	34.613	27.012	1.339
600	7.246	34.590	27.062	1.395
650	6.744	34.571	27.116	1.448
700	6.374	34.558	27.156	1.500
750	5.917	34.536	27.197	1.549
800	5.486	34.527	27.243	1.597
900	4.964	34.531	27.308	1.687
1000	4.341	34.540	27.385	1.769
1004	4.335	34.540	27.385	1.772



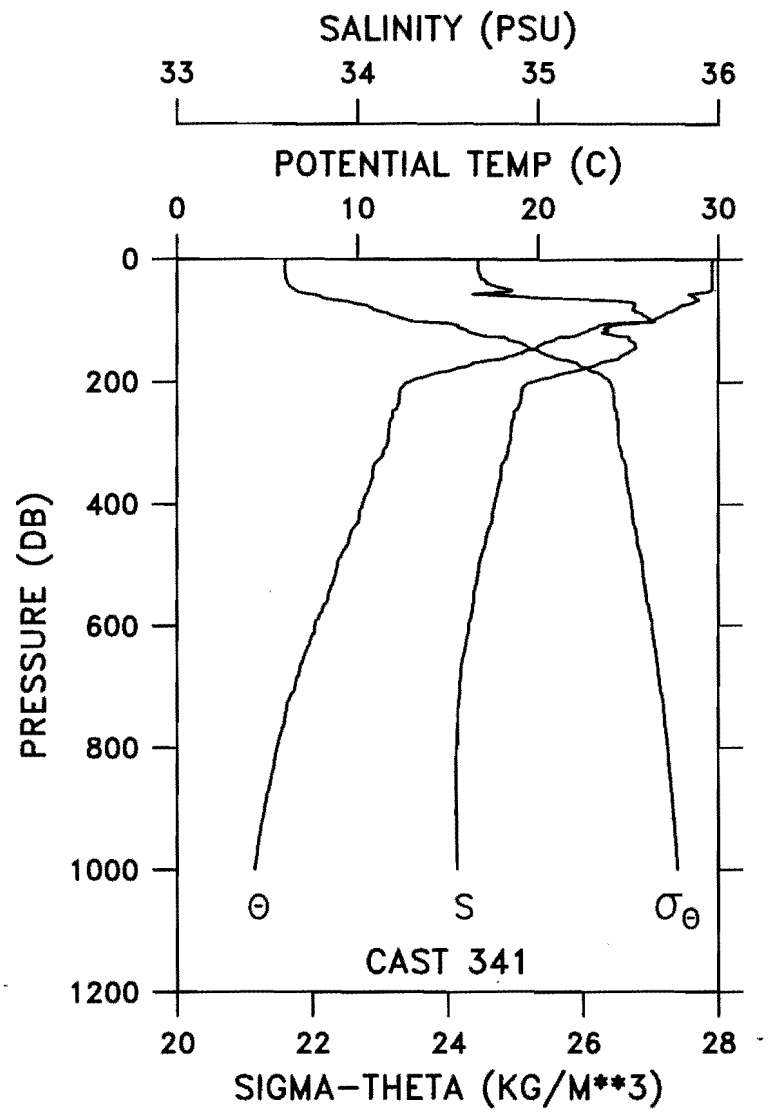
CAST GP7-97-KA-0321 DATE 28 NOV 97 TIME 1240 GMT
LAT 04 00.1S LONG 179 58.6W WEATHER 1 SEA STATE 3
BAROMETER 10 WIND DIR 134 T SPD 05 KT VISIBILITY 7
CLOUD 7 AMOUNT 6 DRY 28.2 WET 25.7 DEPTH 5496 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.818	34.637	21.518	0.000
10	29.809	34.633	21.518	0.063
20	29.803	34.632	21.520	0.126
30	29.802	34.640	21.526	0.188
40	29.705	34.656	21.571	0.251
50	28.877	34.678	21.866	0.312
60	28.649	34.771	22.011	0.371
70	28.206	35.217	22.493	0.427
80	27.924	35.480	22.783	0.479
90	27.607	35.532	22.925	0.530
100	27.456	35.548	22.986	0.579
110	26.676	35.891	23.494	0.626
120	25.479	36.000	23.952	0.669
130	24.460	35.945	24.221	0.707
140	22.824	35.879	24.653	0.743
150	21.630	35.895	25.003	0.774
160	20.272	35.792	25.295	0.803
170	18.067	35.535	25.666	0.828
180	16.854	35.418	25.871	0.851
190	15.857	35.308	26.018	0.872
200	14.679	35.184	26.185	0.892
250	12.305	34.948	26.491	0.977
300	10.283	34.778	26.730	1.051
350	9.518	34.719	26.814	1.117
400	8.910	34.677	26.880	1.181
450	8.482	34.650	26.926	1.242
500	8.023	34.628	26.978	1.301
550	7.528	34.604	27.032	1.358
600	6.911	34.577	27.098	1.412
650	6.440	34.559	27.147	1.464
700	6.012	34.547	27.193	1.513
750	5.710	34.534	27.221	1.561
800	5.240	34.532	27.276	1.607
900	4.770	34.536	27.334	1.693
1000	4.416	34.543	27.379	1.774
1000	4.416	34.543	27.379	1.774



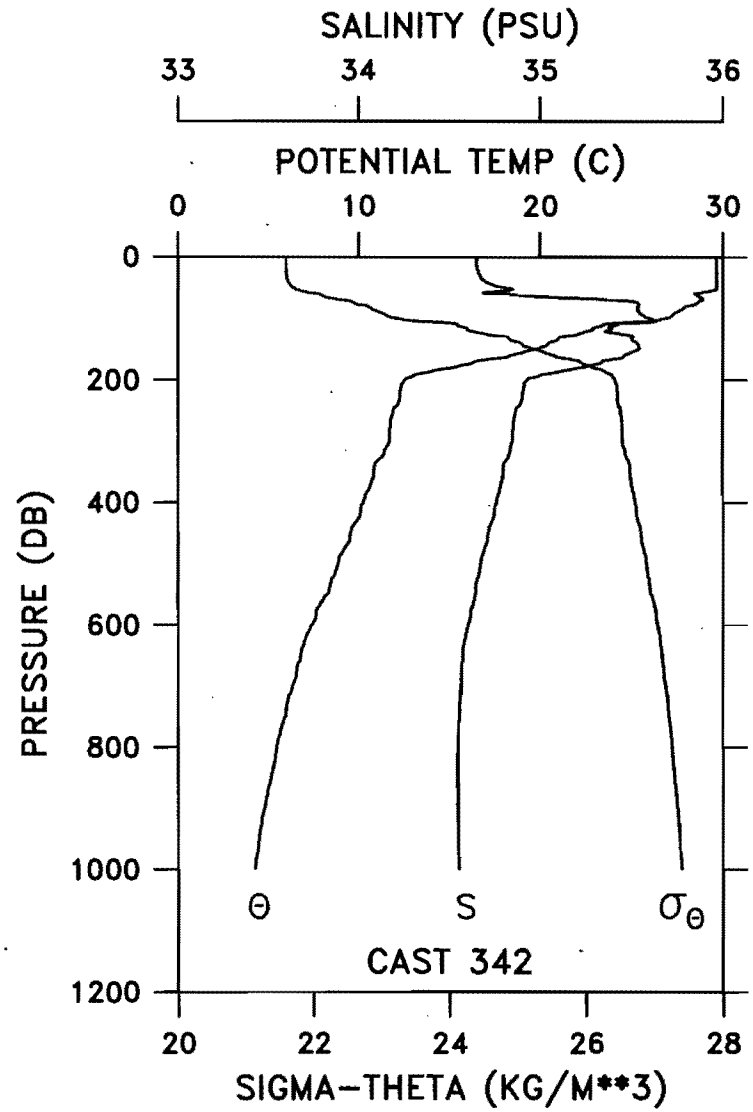
CAST GP7-97-KA-0331 DATE 28 NOV 97 TIME 1946 GMT
LAT 03 00.0S LONG 179 59.0W WEATHER 8 SEA STATE 3
BAROMETER 10 WIND DIR 303 T SPD 08 KT VISIBILITY 6
CLOUD 7 AMOUNT 8 DRY 26.2 WET 24.9 DEPTH 4816 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.584	34.521	21.511	0.000
10	29.581	34.518	21.509	0.063
20	29.604	34.535	21.514	0.126
30	29.552	34.607	21.586	0.188
40	29.331	35.222	22.122	0.248
50	29.080	35.369	22.317	0.304
60	28.722	35.477	22.518	0.358
70	28.229	35.533	22.723	0.410
80	27.656	35.550	22.923	0.461
90	27.175	35.581	23.101	0.509
100	26.397	35.684	23.426	0.556
110	25.100	35.795	23.913	0.599
120	24.660	36.021	24.218	0.638
130	23.079	35.751	24.482	0.675
140	21.762	35.753	24.858	0.708
150	20.109	35.655	25.234	0.739
160	18.710	35.557	25.522	0.765
170	17.681	35.468	25.710	0.789
180	16.249	35.337	25.951	0.811
190	15.167	35.239	26.120	0.831
200	13.609	35.103	26.349	0.849
250	11.745	34.893	26.555	0.930
300	10.757	34.801	26.665	1.004
350	10.026	34.753	26.755	1.074
400	9.466	34.710	26.815	1.141
450	8.977	34.675	26.868	1.205
500	8.388	34.639	26.932	1.268
550	7.956	34.621	26.983	1.327
600	7.246	34.590	27.062	1.384
650	6.618	34.570	27.133	1.437
700	6.135	34.560	27.188	1.487
750	5.762	34.549	27.227	1.535
800	5.356	34.544	27.272	1.580
900	4.856	34.542	27.329	1.666
1000	4.418	34.549	27.383	1.748
1005	4.407	34.549	27.384	1.752



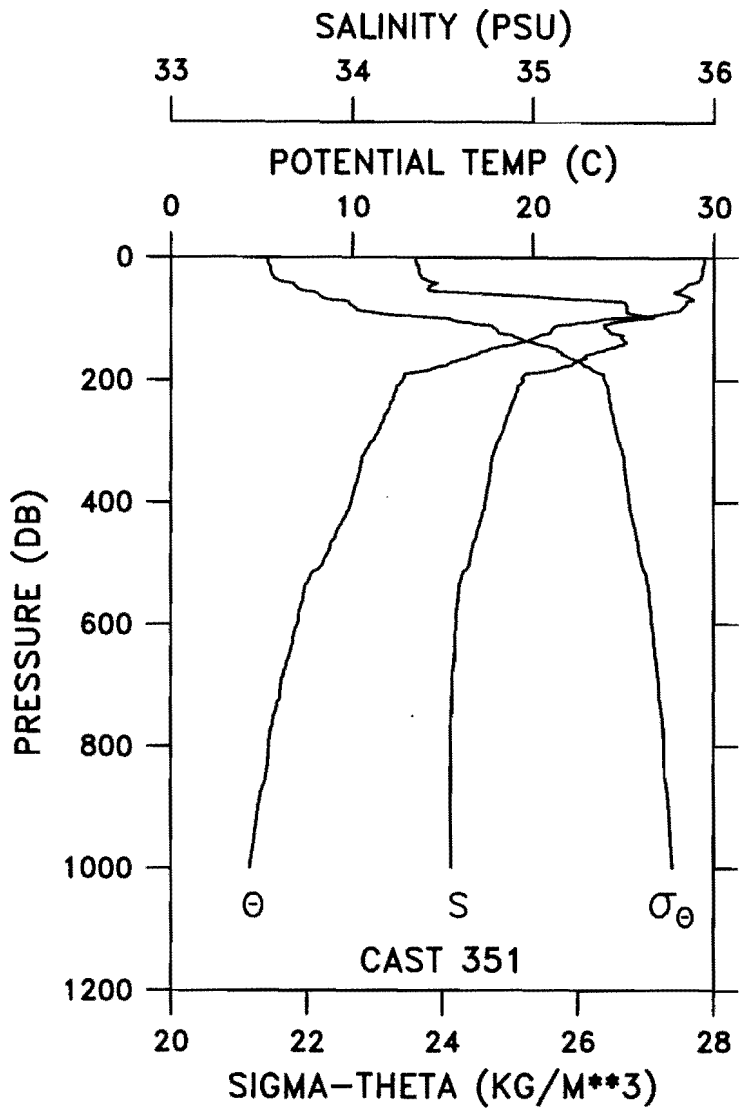
CAST GP7-97-KA-0341 DATE 29 NOV 97 TIME 0725 GMT
LAT 01 59.4S LONG 179 55.8W WEATHER 8 SEA STATE 3
BAROMETER 09 WIND DIR 244 T SPD 13 KT VISIBILITY 7
CLOUD 7 AMOUNT 8 DRY 28.4 WET 26.0 DEPTH 5434 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.660	34.669	21.596	0.000
10	29.664	34.668	21.594	0.062
20	29.663	34.673	21.598	0.124
30	29.666	34.682	21.604	0.186
40	29.661	34.728	21.640	0.248
50	29.632	34.856	21.746	0.309
60	28.595	34.888	22.117	0.369
70	28.666	35.522	22.570	0.424
80	27.711	35.531	22.891	0.475
90	27.049	35.579	23.141	0.524
100	26.199	35.635	23.452	0.570
110	23.312	35.397	24.146	0.611
120	22.438	35.357	24.367	0.648
130	20.953	35.504	24.892	0.681
140	20.086	35.539	25.151	0.711
150	19.235	35.510	25.352	0.739
160	18.224	35.453	25.565	0.764
170	16.368	35.336	25.922	0.787
180	15.296	35.235	26.088	0.808
190	13.878	35.095	26.287	0.827
200	12.865	34.967	26.395	0.844
250	11.949	34.869	26.498	0.925
300	11.672	34.844	26.531	1.004
350	10.850	34.795	26.643	1.080
400	10.280	34.760	26.717	1.152
450	9.615	34.718	26.797	1.221
500	8.890	34.674	26.881	1.286
550	8.387	34.644	26.936	1.348
600	7.646	34.617	27.025	1.407
650	7.045	34.586	27.087	1.462
700	6.525	34.566	27.141	1.515
750	5.976	34.557	27.205	1.564
800	5.516	34.548	27.256	1.611
900	4.842	34.545	27.333	1.699
1000	4.304	34.551	27.397	1.779
1005	4.310	34.551	27.396	1.783



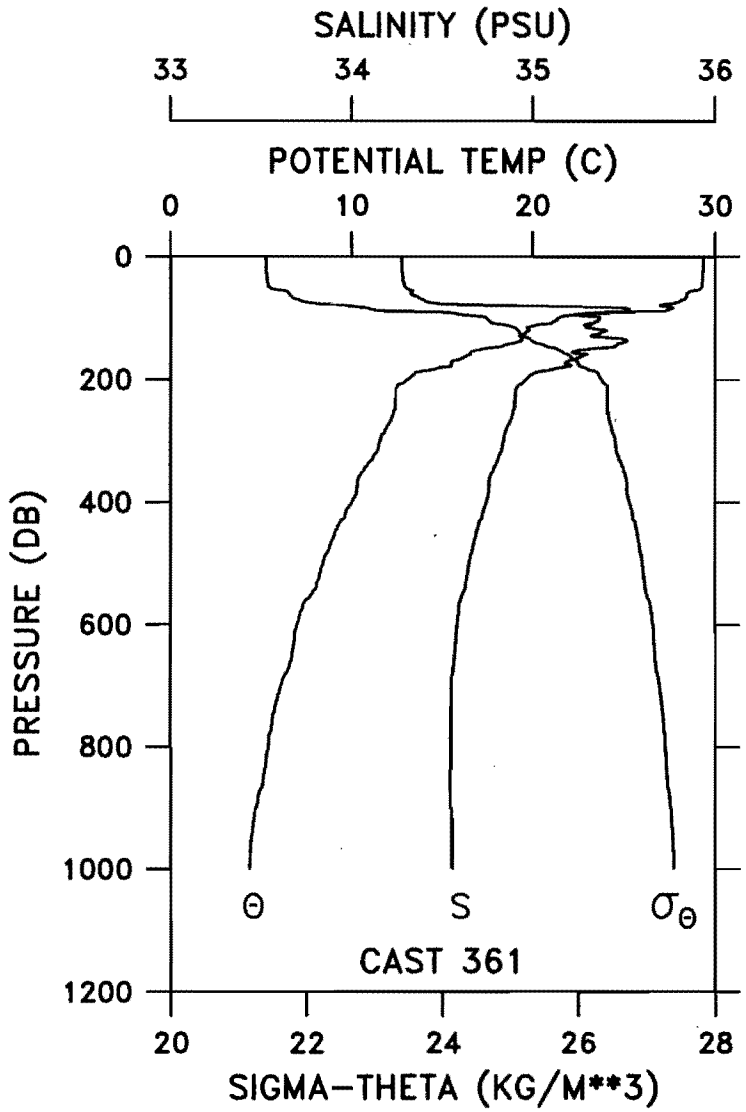
CAST GP7-97-KA-0342 DATE 29 NOV 97 TIME 1001 GMT
LAT 01 59.6S LONG 179 55.7W WEATHER 8 SEA STATE 3
BAROMETER 10 WIND DIR 241 T SPD 11 KT VISIBILITY 7
CLOUD 7 AMOUNT 8 DRY 28.0 WET 25.6 DEPTH 5403 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.640	34.653	21.590	0.000
10	29.641	34.651	21.589	0.062
20	29.646	34.655	21.590	0.124
30	29.657	34.671	21.599	0.186
40	29.656	34.698	21.619	0.248
50	29.665	34.812	21.701	0.310
60	28.499	34.804	22.086	0.370
70	28.867	35.410	22.418	0.427
80	27.961	35.538	22.814	0.479
90	27.474	35.543	22.976	0.529
100	26.793	35.606	23.242	0.577
110	23.477	35.420	24.115	0.620
120	22.688	35.367	24.303	0.657
130	21.088	35.504	24.855	0.692
140	20.446	35.533	25.051	0.722
150	19.809	35.543	25.228	0.751
160	18.349	35.458	25.537	0.778
170	16.397	35.337	25.916	0.801
180	15.186	35.221	26.102	0.821
190	13.347	35.040	26.354	0.840
200	12.554	34.927	26.426	0.856
250	11.913	34.866	26.502	0.937
300	11.707	34.848	26.527	1.016
350	10.851	34.795	26.643	1.092
400	10.258	34.760	26.721	1.164
450	9.561	34.714	26.803	1.233
500	8.865	34.672	26.883	1.298
550	8.271	34.644	26.954	1.360
600	7.399	34.604	27.051	1.417
650	6.769	34.572	27.114	1.470
700	6.310	34.564	27.168	1.522
750	5.914	34.554	27.212	1.570
800	5.447	34.547	27.264	1.616
900	4.777	34.546	27.341	1.703
1000	4.255	34.553	27.404	1.783
1500	2.888	34.600	27.576	2.124
2000	2.090	34.643	27.678	2.403
2500	1.712	34.660	27.722	2.649
3000	1.466	34.671	27.749	2.884
3500	1.240	34.686	27.777	3.109
4000	1.068	34.695	27.796	3.325
4500	0.894	34.704	27.814	3.535
5000	0.823	34.707	27.822	3.741
5010	0.823	34.707	27.821	3.745



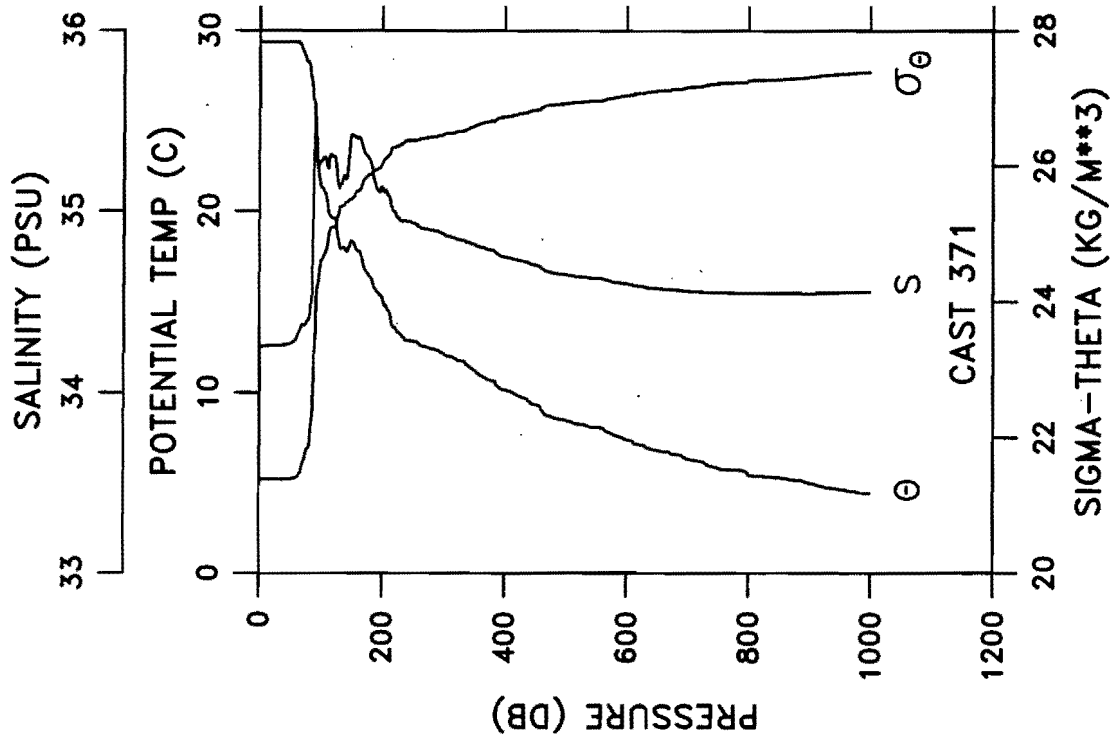
CAST GP7-97-KA-0351 DATE 30 NOV 97 TIME 0227 GMT
LAT 01 29.9S LONG 179 53.7W WEATHER 2 SEA STATE 3
BAROMETER 07 WIND DIR 271 T SPD 15 KT VISIBILITY 7
CLOUD 7 AMOUNT 7 DRY 29.2 WET 26.7 DEPTH 5236 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.479	34.352	21.419	0.000
10	29.455	34.354	21.429	0.064
20	29.384	34.369	21.464	0.127
30	29.301	34.381	21.501	0.190
40	28.972	34.444	21.658	0.253
50	28.297	34.420	21.864	0.313
60	28.235	34.801	22.171	0.371
70	28.574	35.417	22.522	0.427
80	28.316	35.519	22.683	0.480
90	27.337	35.526	23.008	0.531
100	23.862	35.564	24.111	0.575
110	21.412	35.402	24.688	0.611
120	21.010	35.423	24.815	0.643
130	20.155	35.492	25.097	0.674
140	19.081	35.504	25.387	0.702
150	17.558	35.402	25.689	0.726
160	16.613	35.287	25.827	0.749
170	15.555	35.239	26.033	0.770
180	14.584	35.151	26.180	0.790
190	12.888	34.956	26.382	0.808
200	12.794	34.950	26.396	0.825
250	11.963	34.872	26.497	0.906
300	11.079	34.807	26.612	0.984
350	10.411	34.766	26.699	1.056
400	9.943	34.739	26.758	1.125
450	9.133	34.693	26.856	1.192
500	8.382	34.651	26.942	1.254
550	7.305	34.589	27.053	1.310
600	6.952	34.578	27.093	1.364
650	6.530	34.568	27.143	1.416
700	6.048	34.556	27.196	1.465
750	5.660	34.549	27.239	1.513
800	5.390	34.546	27.269	1.558
900	4.781	34.546	27.340	1.646
1000	4.331	34.550	27.393	1.726
1005	4.310	34.549	27.395	1.730



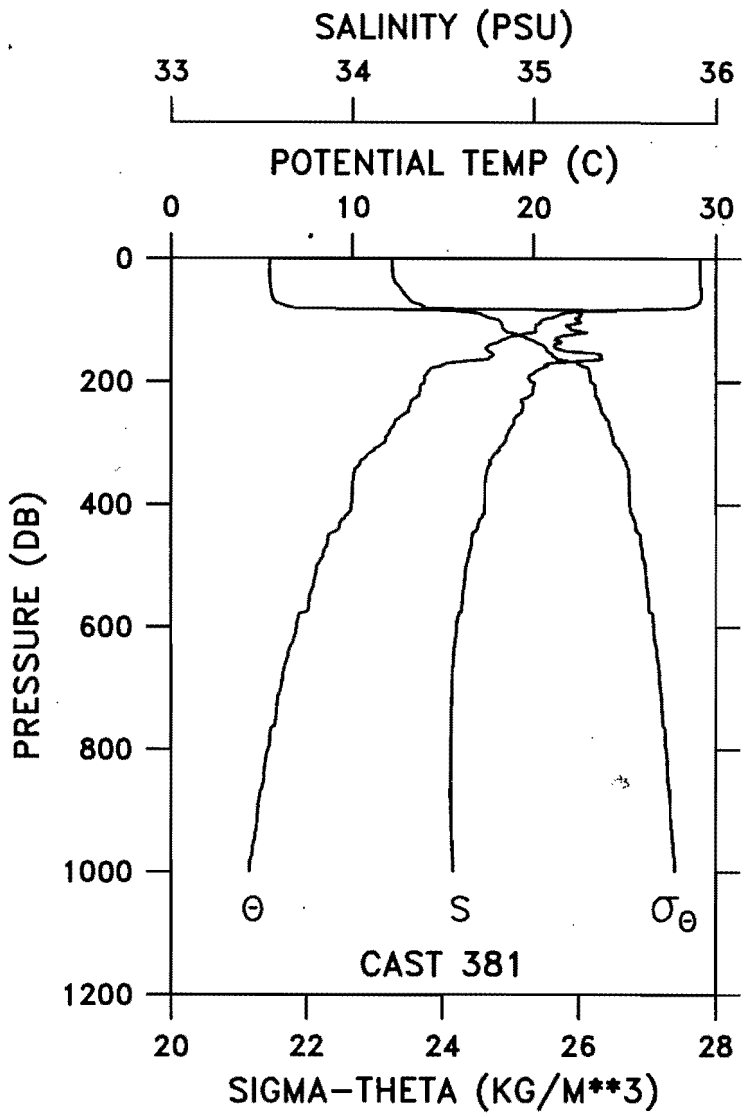
CAST GP7-97-KA-0361 DATE 30 NOV 97 TIME 0633 GMT
LAT 01 00.1S LONG 179 55.9W WEATHER 2 SEA STATE 3
BAROMETER 08 WIND DIR 274 T SPD 13 KT VISIBILITY 7
CLOUD 7 AMOUNT 7 DRY 28.0 WET 24.6 DEPTH 5341 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.365	34.280	21.404	0.000
10	29.362	34.279	21.404	0.064
20	29.363	34.280	21.404	0.128
30	29.331	34.284	21.418	0.192
40	29.323	34.285	21.422	0.255
50	29.263	34.298	21.451	0.319
60	28.443	34.327	21.746	0.381
70	28.172	34.403	21.892	0.442
80	27.128	34.925	22.623	0.499
90	24.221	35.472	23.935	0.548
100	21.424	35.368	24.659	0.584
110	20.420	35.291	24.874	0.616
120	19.813	35.409	25.124	0.646
130	19.295	35.332	25.201	0.674
140	19.041	35.489	25.386	0.702
150	17.255	35.318	25.698	0.727
160	16.399	35.284	25.875	0.749
170	15.592	35.194	25.990	0.770
180	14.988	35.164	26.102	0.791
190	13.506	35.005	26.295	0.809
200	13.105	34.963	26.344	0.827
250	12.355	34.893	26.438	0.910
300	11.593	34.840	26.542	0.991
350	10.650	34.780	26.668	1.066
400	10.022	34.743	26.748	1.137
450	9.068	34.689	26.864	1.203
500	8.404	34.649	26.937	1.265
550	7.813	34.614	26.998	1.324
600	6.979	34.583	27.093	1.379
650	6.695	34.569	27.121	1.431
700	6.086	34.552	27.188	1.482
750	5.621	34.549	27.244	1.529
800	5.392	34.549	27.272	1.574
900	4.729	34.548	27.348	1.660
1000	4.360	34.557	27.396	1.740
1006	4.355	34.557	27.396	1.744



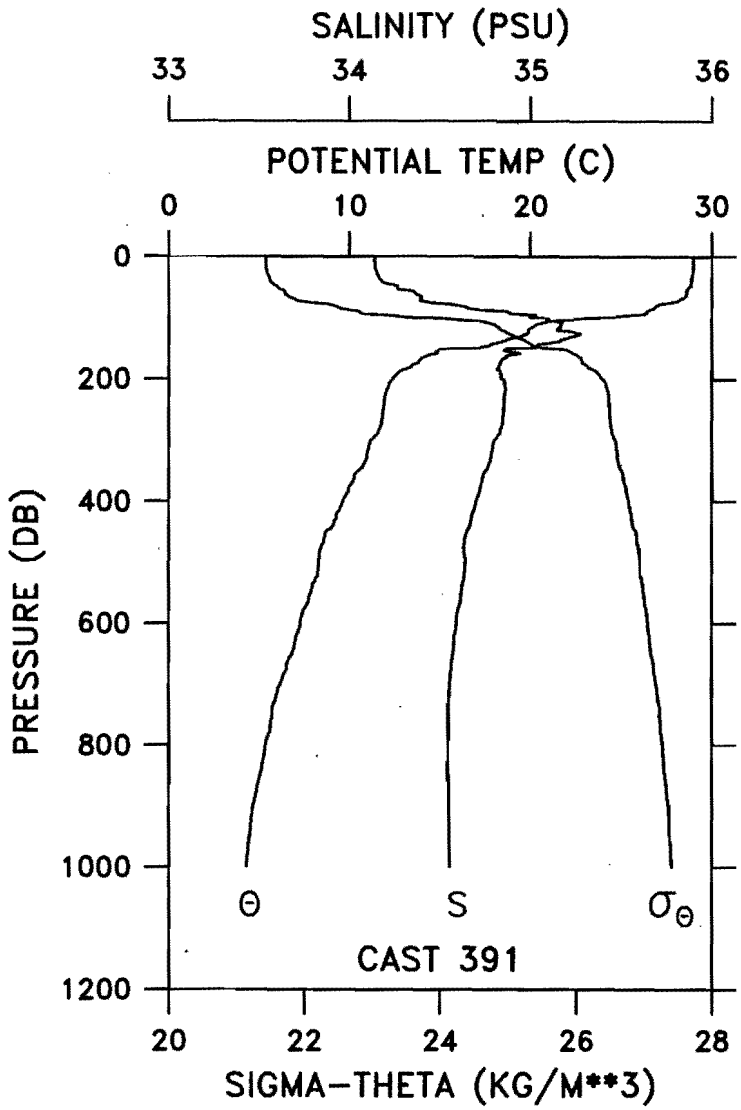
CAST GP7-97-KA-0371 DATE 30 NOV 97 TIME 1046 GMT
LAT 00 30.2S LONG 179 57.8W WEATHER 8 SEA STATE 3
BAROMETER 11 WIND DIR 314 T SPD 15 KT VISIBILITY 5
CLOUD 7 AMOUNT 8 DRY 26.0 WET 24.7 DEPTH 5397 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.367	34.253	21.383	0.000
10	29.366	34.257	21.386	0.064
20	29.368	34.261	21.388	0.128
30	29.365	34.261	21.389	0.192
40	29.376	34.266	21.389	0.256
50	29.376	34.270	21.392	0.320
60	29.361	34.297	21.418	0.385
70	28.955	34.376	21.613	0.448
80	28.243	34.407	21.872	0.509
90	25.990	35.427	23.360	0.563
100	21.362	35.276	24.606	0.600
110	20.580	35.262	24.809	0.633
120	19.613	35.302	25.095	0.663
130	18.031	35.128	25.363	0.691
140	17.829	35.181	25.454	0.717
150	18.352	35.424	25.511	0.742
160	17.789	35.403	25.633	0.767
170	16.911	35.335	25.793	0.791
180	16.378	35.281	25.878	0.813
190	15.593	35.132	25.942	0.834
200	15.172	35.128	26.033	0.855
250	12.832	34.934	26.376	0.945
300	12.168	34.876	26.461	1.029
350	11.238	34.818	26.591	1.109
400	10.178	34.749	26.726	1.182
450	9.365	34.704	26.828	1.250
500	8.499	34.652	26.925	1.312
550	8.094	34.631	26.971	1.372
600	7.413	34.600	27.046	1.429
650	6.791	34.573	27.112	1.483
700	6.307	34.560	27.165	1.534
750	5.822	34.551	27.221	1.583
800	5.441	34.551	27.268	1.630
900	4.972	34.545	27.318	1.718
1000	4.412	34.557	27.390	1.800
1003	4.413	34.556	27.389	1.802



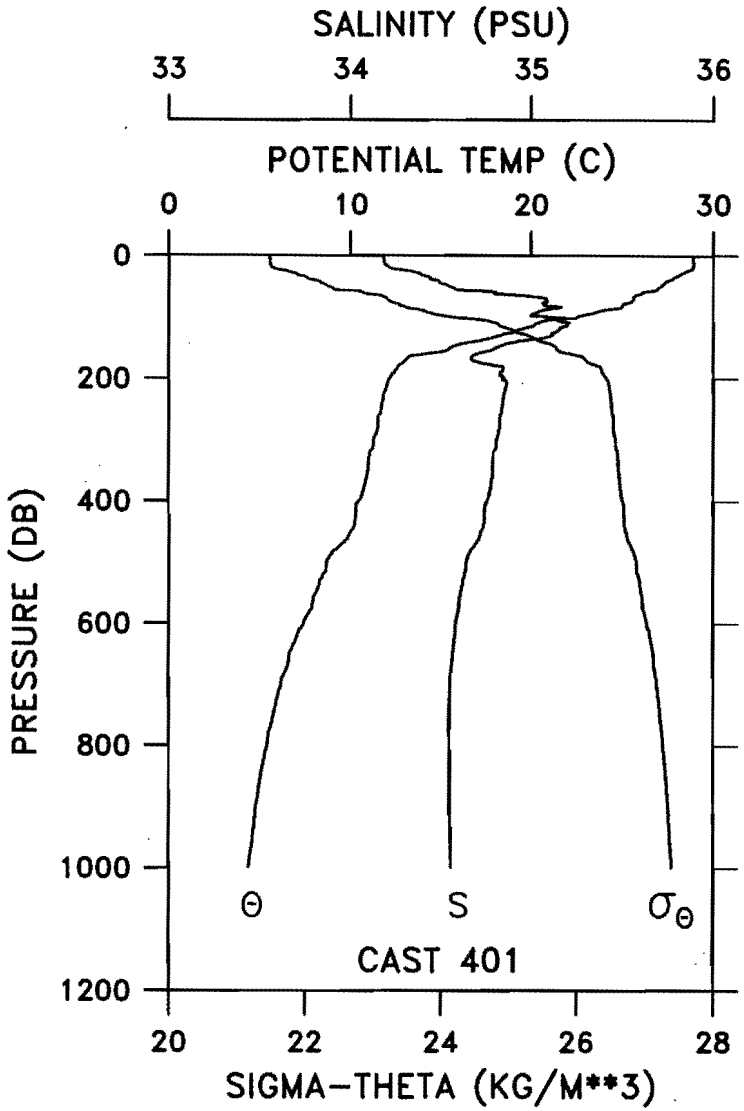
CAST GP7-97-KA-0381 DATE 30 NOV 97 TIME 1537 GMT
LAT 00 00.1S LONG 179 59.9W WEATHER 8 SEA STATE 3
BAROMETER 08 WIND DIR 193 T SPD 07 KT VISIBILITY 5
CLOUD 7 AMOUNT 8 DRY 27.5 WET 25.5 DEPTH 5248 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.126	34.222	21.440	0.000
10	29.126	34.219	21.438	0.064
20	29.130	34.221	21.438	0.127
30	29.137	34.226	21.440	0.191
40	29.148	34.239	21.446	0.254
50	29.176	34.270	21.459	0.318
60	29.189	34.295	21.474	0.381
70	29.110	34.326	21.523	0.445
80	28.359	34.390	21.821	0.507
90	21.510	35.266	24.558	0.548
100	20.447	35.238	24.825	0.581
110	20.117	35.185	24.873	0.613
120	20.034	35.295	24.979	0.644
130	18.503	35.133	25.250	0.672
140	17.589	35.118	25.464	0.699
150	17.485	35.172	25.531	0.724
160	17.615	35.367	25.649	0.748
170	15.264	35.089	25.983	0.771
180	14.295	35.031	26.149	0.791
190	14.033	34.978	26.164	0.810
200	14.000	34.986	26.177	0.829
250	13.024	34.934	26.337	0.919
300	11.728	34.838	26.515	1.001
350	10.109	34.742	26.732	1.074
400	9.972	34.734	26.749	1.143
450	8.716	34.667	26.903	1.209
500	8.063	34.632	26.976	1.270
550	7.652	34.612	27.021	1.327
600	6.934	34.580	27.097	1.382
650	6.426	34.562	27.152	1.434
700	6.044	34.556	27.196	1.483
750	5.765	34.551	27.228	1.530
800	5.319	34.549	27.280	1.575
900	4.759	34.549	27.345	1.661
1000	4.292	34.559	27.405	1.740
1500	2.945	34.602	27.573	2.087
2000	2.107	34.639	27.674	2.370
2500	1.705	34.660	27.722	2.618
3000	1.433	34.673	27.752	2.853
3004	1.432	34.673	27.753	2.855



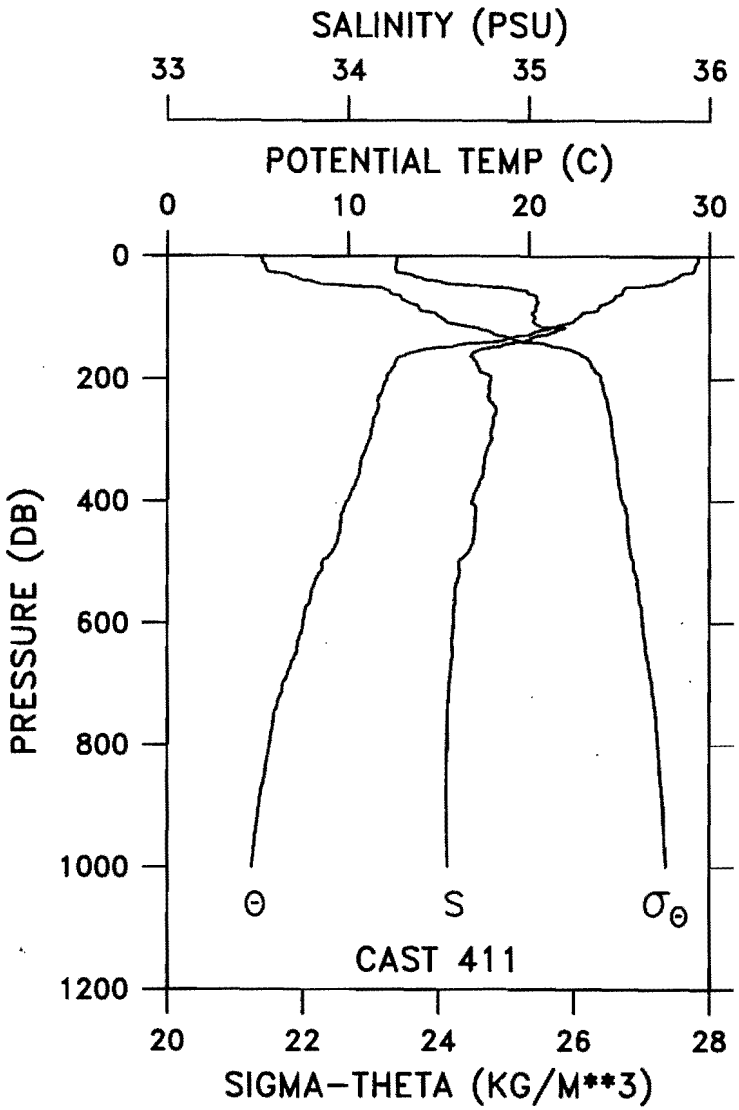
CAST GP7-97-KA-0391 DATE 01 DEC 97 TIME 1046 GMT
LAT 00 59.9N LONG 179 48.1W WEATHER 1 SEA STATE 3
BAROMETER 11 WIND DIR 315 T SPD 07 KT VISIBILITY 5
CLOUD 7 AMOUNT 8 DRY 27.9 WET 25.9 DEPTH 5869 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.982	34.142	21.428	0.000
10	28.981	34.142	21.428	0.064
20	28.981	34.144	21.430	0.127
30	28.923	34.158	21.460	0.191
40	28.867	34.178	21.494	0.254
50	28.720	34.268	21.610	0.317
60	28.622	34.366	21.716	0.378
70	28.226	34.394	21.868	0.439
80	26.961	34.615	22.442	0.496
90	26.424	34.876	22.809	0.549
100	23.302	35.058	23.892	0.596
110	20.404	35.166	24.783	0.631
120	19.871	35.151	24.912	0.663
130	19.396	35.235	25.100	0.692
140	18.237	35.115	25.303	0.720
150	16.023	34.882	25.652	0.747
160	14.420	34.890	26.014	0.768
170	13.876	34.838	26.089	0.788
180	13.402	34.825	26.176	0.807
190	12.697	34.833	26.325	0.825
200	12.374	34.852	26.402	0.842
250	11.877	34.853	26.499	0.922
300	11.180	34.802	26.589	1.001
350	10.451	34.752	26.681	1.076
400	9.647	34.702	26.779	1.145
450	8.721	34.650	26.889	1.210
500	8.317	34.643	26.945	1.271
550	7.862	34.621	26.997	1.330
600	7.272	34.593	27.060	1.386
650	6.822	34.574	27.108	1.440
700	6.153	34.557	27.184	1.491
750	5.699	34.551	27.236	1.538
800	5.328	34.549	27.280	1.584
900	4.632	34.552	27.362	1.669
1000	4.271	34.560	27.408	1.748
1004	4.265	34.560	27.408	1.751



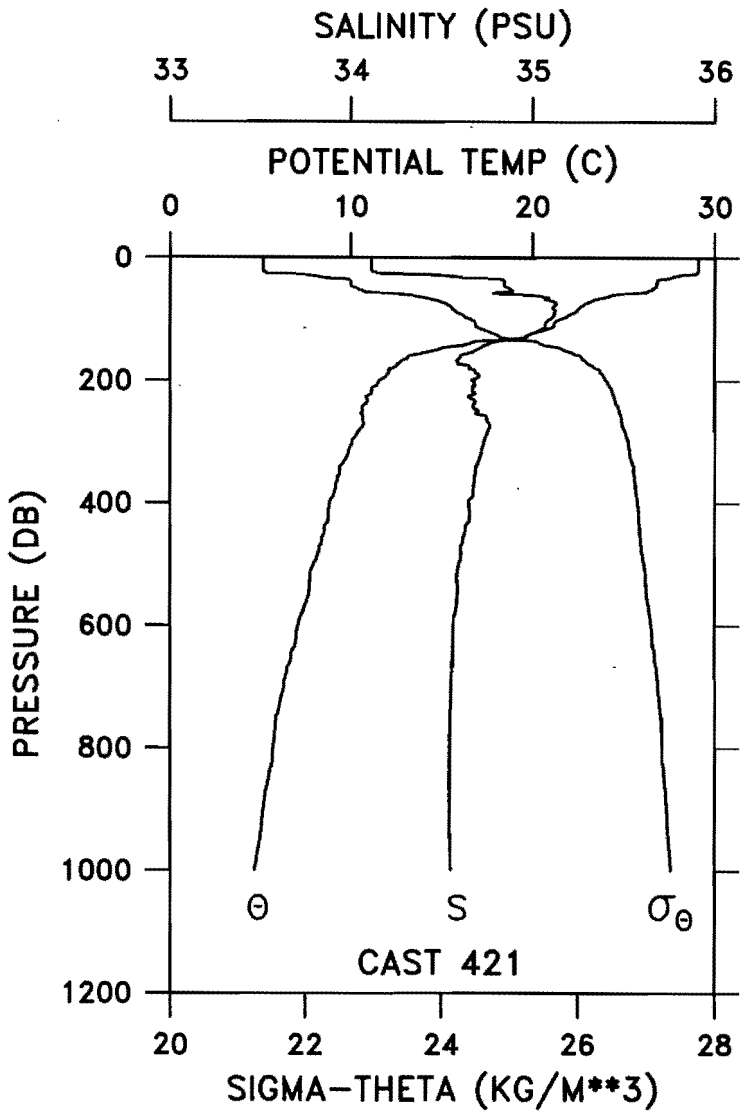
CAST GP7-97-KA-0401 DATE 01 DEC 97 TIME 1939 GMT
LAT 02 02.8N LONG 179 47.2W WEATHER 2 SEA STATE 3
BAROMETER 08 WIND DIR 329 T SPD 08 KT VISIBILITY 5
CLOUD 7 AMOUNT 8 DRY 27.8 WET 25.0 DEPTH 5465 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.936	34.186	21.476	0.000
10	28.936	34.188	21.478	0.063
20	28.896	34.219	21.515	0.126
30	28.207	34.391	21.871	0.187
40	27.583	34.475	22.137	0.246
50	27.122	34.547	22.340	0.302
60	26.101	34.799	22.852	0.355
70	25.640	35.082	23.209	0.403
80	25.047	35.073	23.384	0.449
90	23.720	35.050	23.764	0.493
100	22.556	35.119	24.152	0.533
110	20.298	35.208	24.843	0.567
120	19.338	35.155	25.054	0.598
130	18.246	35.112	25.298	0.626
140	16.764	34.918	25.508	0.652
150	15.526	34.804	25.705	0.676
160	14.096	34.700	25.936	0.699
170	13.040	34.676	26.135	0.719
180	12.618	34.842	26.347	0.737
190	12.420	34.832	26.378	0.754
200	12.150	34.845	26.441	0.771
250	11.704	34.840	26.521	0.850
300	11.290	34.811	26.576	0.927
350	10.961	34.790	26.620	1.003
400	10.468	34.757	26.682	1.077
450	10.056	34.722	26.726	1.148
500	8.709	34.642	26.884	1.215
550	8.114	34.610	26.951	1.276
600	7.425	34.584	27.032	1.335
650	6.632	34.568	27.129	1.388
700	6.147	34.553	27.181	1.439
750	5.734	34.547	27.228	1.486
800	5.388	34.547	27.271	1.532
900	4.771	34.552	27.346	1.618
1000	4.368	34.559	27.396	1.698
1500	2.882	34.605	27.581	2.042
2000	2.153	34.636	27.668	2.321
2500	1.706	34.661	27.723	2.569
3000	1.469	34.671	27.749	2.804
3006	1.464	34.671	27.749	2.807



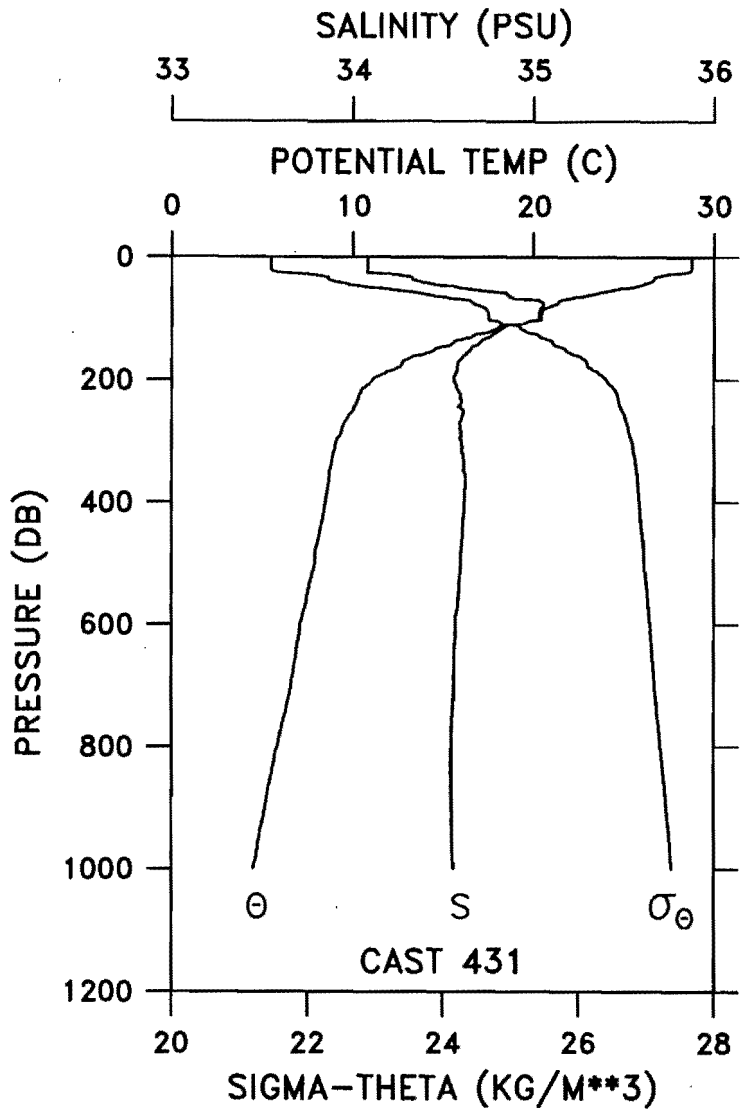
CAST GP7-97-KA-0411 DATE 02 DEC 97 TIME 0522 GMT
LAT 02 59.9N LONG 179 49.5W WEATHER 1 SEA STATE 3
BAROMETER 07 WIND DIR 027 T SPD 07 KT VISIBILITY 7
CLOUD 7 AMOUNT 1 DRY 28.5 WET 25.8 DEPTH 5651 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.381	34.270	21.391	0.000
10	29.327	34.266	21.406	0.064
20	29.181	34.262	21.452	0.128
30	28.358	34.343	21.786	0.190
40	27.731	34.487	22.099	0.249
50	25.558	34.835	23.048	0.304
60	25.167	34.993	23.286	0.350
70	24.705	35.042	23.464	0.395
80	23.950	35.039	23.687	0.439
90	23.553	35.029	23.796	0.481
100	22.737	35.036	24.038	0.521
110	22.084	35.039	24.225	0.559
120	20.727	35.149	24.682	0.594
130	19.293	35.041	24.979	0.626
140	17.663	34.948	25.316	0.655
150	14.692	34.762	25.856	0.679
160	13.199	34.686	26.110	0.699
170	12.633	34.700	26.234	0.718
180	12.523	34.719	26.270	0.736
190	12.242	34.749	26.348	0.754
200	12.133	34.789	26.400	0.770
250	11.640	34.820	26.518	0.851
300	11.142	34.791	26.588	0.928
350	10.644	34.749	26.644	1.003
400	9.929	34.683	26.717	1.075
450	9.556	34.701	26.794	1.143
500	8.558	34.611	26.884	1.208
550	7.964	34.593	26.960	1.269
600	7.519	34.583	27.018	1.328
650	7.142	34.578	27.067	1.383
700	6.400	34.561	27.154	1.436
750	5.898	34.553	27.212	1.485
800	5.619	34.549	27.244	1.532
900	5.055	34.548	27.311	1.622
1000	4.633	34.553	27.363	1.706
1006	4.605	34.553	27.366	1.711



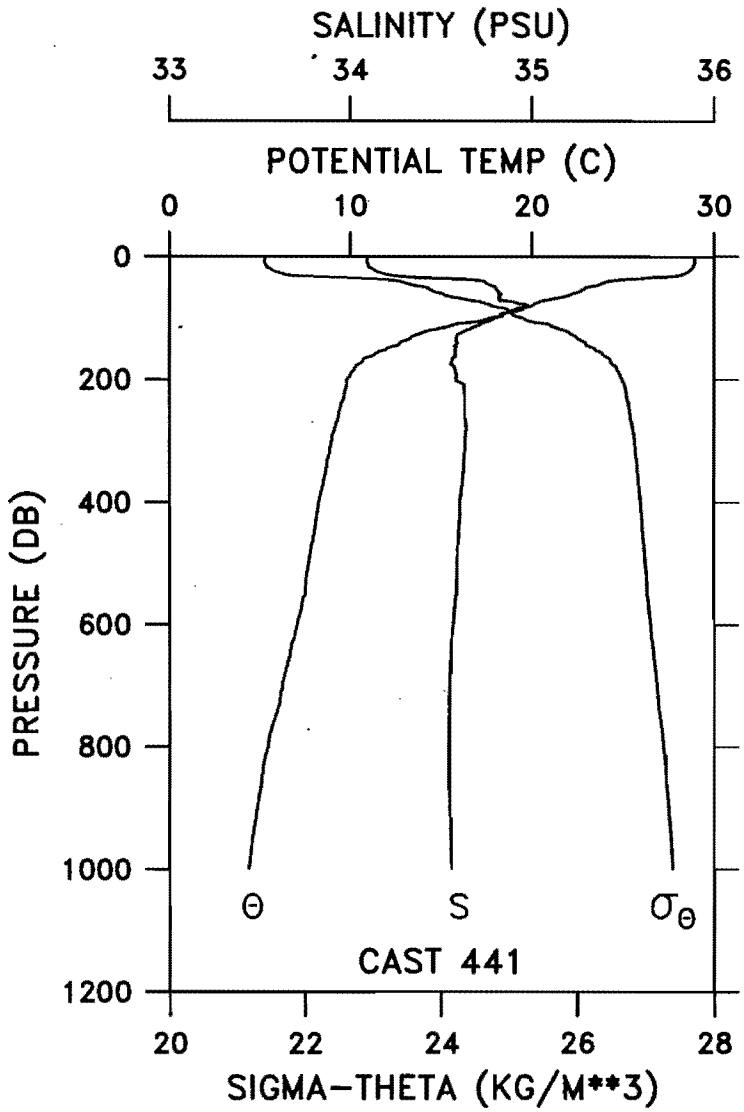
CAST GP7-97-KA-0421 DATE 02 DEC 97 TIME 1322 GMT
LAT 03 59.9N LONG 179 51.5W WEATHER 1 SEA STATE 3
BAROMETER 09 WIND DIR 346 T SPD 09 KT VISIBILITY 7
CLOUD 7 AMOUNT 1 DRY 28.0 WET 24.0 DEPTH 5682 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.085	34.116	21.374	0.000
10	29.088	34.114	21.372	0.064
20	29.086	34.116	21.374	0.128
30	27.825	34.538	22.106	0.190
40	26.806	34.844	22.664	0.244
50	26.591	34.871	22.753	0.296
60	24.467	34.929	23.450	0.345
70	23.230	35.104	23.947	0.387
80	22.590	35.113	24.139	0.426
90	22.260	35.120	24.237	0.464
100	21.528	35.095	24.423	0.500
110	21.179	35.070	24.500	0.535
120	20.369	35.019	24.680	0.569
130	19.416	34.965	24.888	0.601
140	16.529	34.759	25.441	0.629
150	14.780	34.691	25.783	0.653
160	13.225	34.605	26.042	0.674
170	12.753	34.590	26.125	0.693
180	12.317	34.658	26.263	0.712
190	12.010	34.705	26.358	0.729
200	11.552	34.666	26.415	0.746
250	10.667	34.702	26.603	0.824
300	10.069	34.732	26.731	0.896
350	9.389	34.689	26.812	0.963
400	8.839	34.652	26.872	1.027
450	8.519	34.628	26.903	1.089
500	7.937	34.596	26.966	1.149
550	7.676	34.589	26.999	1.207
600	7.088	34.568	27.066	1.263
650	6.699	34.563	27.116	1.316
700	6.298	34.555	27.163	1.367
750	5.859	34.550	27.215	1.416
800	5.693	34.548	27.234	1.463
900	5.164	34.547	27.297	1.554
1000	4.679	34.553	27.358	1.640
1005	4.663	34.554	27.360	1.644



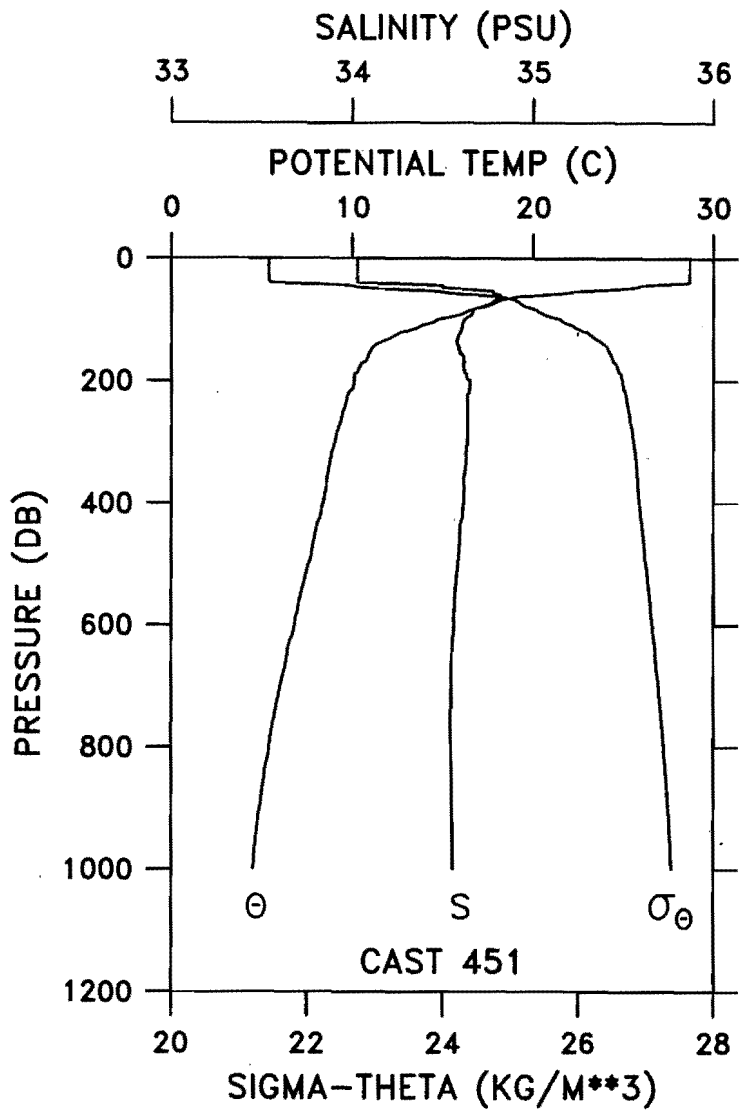
CAST GP7-97-KA-0431 DATE 02 DEC 97 TIME 2143 GMT
LAT 05 01.1N LONG 179 53.1W WEATHER 1 SEA STATE 4
BAROMETER 09 WIND DIR 035 T SPD 07 KT VISIBILITY 7
CLOUD 4 AMOUNT 3 DRY 28.0 WET 24.0 DEPTH 5589 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.766	34.084	21.456	0.000
10	28.762	34.082	21.456	0.063
20	28.749	34.082	21.461	0.127
30	27.099	34.267	22.136	0.188
40	26.510	34.373	22.403	0.243
50	25.304	34.588	22.939	0.295
60	23.382	34.849	23.710	0.341
70	21.572	35.036	24.366	0.380
80	20.954	35.053	24.548	0.415
90	20.468	35.032	24.663	0.448
100	20.425	35.030	24.673	0.481
110	18.838	34.876	24.969	0.513
120	17.664	34.806	25.206	0.542
130	16.585	34.758	25.427	0.568
140	15.547	34.699	25.619	0.593
150	14.558	34.652	25.801	0.616
160	13.577	34.616	25.979	0.638
170	12.759	34.584	26.119	0.658
180	12.474	34.575	26.168	0.677
190	11.687	34.566	26.312	0.695
200	11.107	34.561	26.415	0.712
250	10.005	34.613	26.649	0.788
300	9.093	34.602	26.792	0.857
350	8.718	34.618	26.864	0.921
400	8.480	34.619	26.902	0.982
450	8.164	34.608	26.941	1.043
500	7.899	34.599	26.974	1.101
550	7.506	34.586	27.022	1.159
600	7.104	34.569	27.065	1.214
650	6.880	34.564	27.092	1.268
700	6.593	34.561	27.129	1.320
750	6.213	34.552	27.172	1.371
800	5.845	34.547	27.214	1.420
900	5.146	34.549	27.301	1.511
1000	4.490	34.560	27.384	1.595
1004	4.469	34.560	27.386	1.598



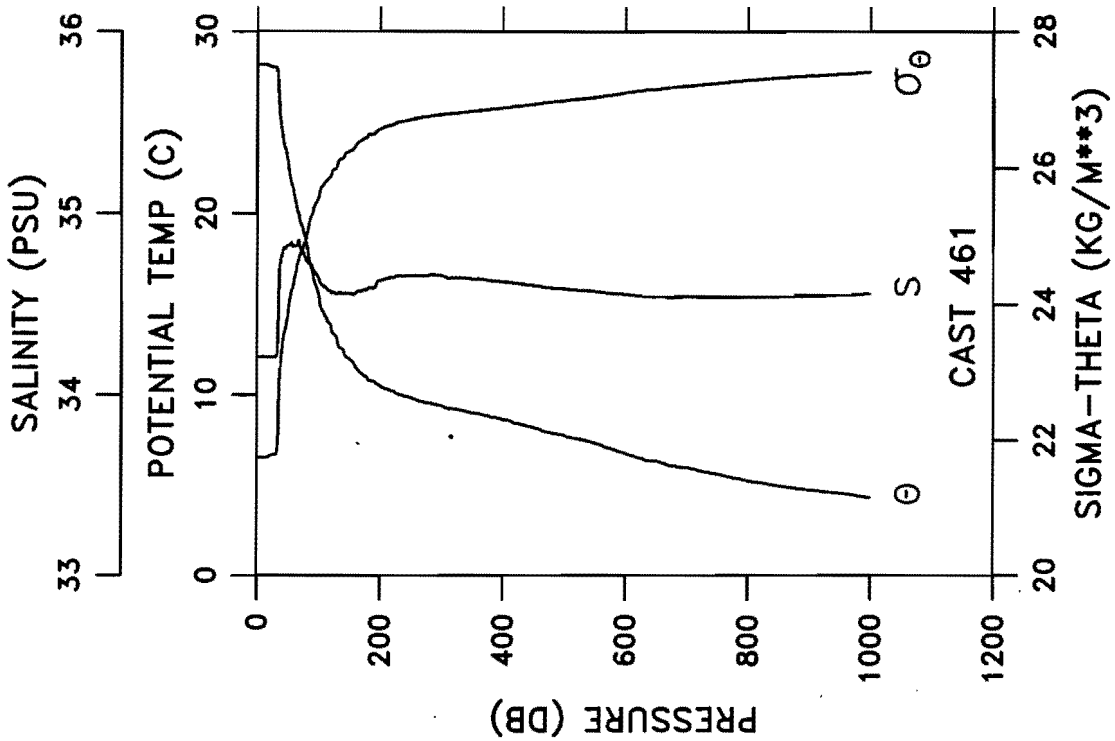
CAST GP7-97-KA-0441 DATE 03 DEC 97 TIME 0452 GMT
LAT 06 00.4N LONG 179 51.9W WEATHER 1 SEA STATE 4
BAROMETER 06 WIND DIR 016 T SPD 13 KT VISIBILITY 7
CLOUD 4 AMOUNT 3 DRY 28.3 WET 25.2 DEPTH 5555 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.951	34.096	21.405	0.000
10	28.946	34.095	21.405	0.064
20	28.745	34.124	21.494	0.127
30	28.153	34.218	21.759	0.190
40	24.152	34.736	23.399	0.242
50	22.981	34.802	23.790	0.285
60	22.250	34.831	24.021	0.325
70	20.886	34.834	24.400	0.363
80	19.984	34.979	24.751	0.396
90	18.691	34.876	25.006	0.427
100	17.630	34.797	25.208	0.456
110	15.763	34.718	25.586	0.483
120	14.350	34.638	25.834	0.506
130	13.414	34.586	25.989	0.527
140	12.750	34.590	26.126	0.547
150	11.991	34.580	26.265	0.566
160	11.303	34.579	26.393	0.583
170	10.691	34.561	26.489	0.599
180	10.252	34.576	26.578	0.614
190	10.049	34.586	26.620	0.629
200	9.811	34.582	26.658	0.643
250	9.406	34.632	26.765	0.711
300	8.974	34.633	26.836	0.776
350	8.645	34.624	26.880	0.839
400	8.261	34.604	26.924	0.899
450	8.026	34.598	26.955	0.959
500	7.700	34.590	26.996	1.016
550	7.514	34.585	27.019	1.073
600	7.058	34.568	27.071	1.128
650	6.659	34.558	27.118	1.181
700	6.240	34.549	27.166	1.232
750	5.858	34.547	27.213	1.281
800	5.442	34.545	27.263	1.327
900	4.844	34.551	27.337	1.414
1000	4.374	34.561	27.397	1.494
1006	4.328	34.561	27.402	1.499



CAST GP7-97-KA-0451 DATE 03 DEC 97 TIME 1150 GMT
LAT 07 00.4N LONG 179 50.4W WEATHER 1 SEA STATE 4
BAROMETER 09 WIND DIR 055 T SPD 12 KT VISIBILITY 7
CLOUD 3 AMOUNT 4 DRY 27.5 WET 25.1 DEPTH 5804 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.692	34.028	21.439	0.000
10	28.695	34.027	21.437	0.064
20	28.689	34.027	21.439	0.127
30	28.685	34.027	21.441	0.191
40	28.510	34.048	21.514	0.254
50	24.807	34.602	23.101	0.307
60	20.331	34.813	24.533	0.347
70	17.996	34.780	25.105	0.377
80	17.046	34.697	25.272	0.406
90	16.087	34.662	25.469	0.432
100	14.699	34.617	25.743	0.456
110	13.821	34.606	25.920	0.478
120	12.721	34.598	26.137	0.498
130	12.085	34.582	26.248	0.516
140	11.321	34.581	26.391	0.534
150	11.030	34.593	26.454	0.550
160	10.848	34.615	26.503	0.566
170	10.559	34.614	26.554	0.581
180	10.355	34.616	26.591	0.596
190	10.114	34.630	26.644	0.611
200	10.093	34.651	26.664	0.625
250	9.482	34.639	26.757	0.694
300	9.049	34.634	26.824	0.759
350	8.665	34.621	26.875	0.821
400	8.389	34.614	26.912	0.883
450	7.949	34.595	26.963	0.942
500	7.577	34.583	27.009	1.000
550	7.150	34.569	27.058	1.055
600	6.821	34.563	27.099	1.109
650	6.401	34.552	27.147	1.160
700	6.024	34.548	27.192	1.210
750	5.695	34.544	27.231	1.257
800	5.396	34.545	27.268	1.303
900	4.889	34.551	27.332	1.390
1000	4.502	34.558	27.381	1.471
1003	4.491	34.558	27.382	1.474

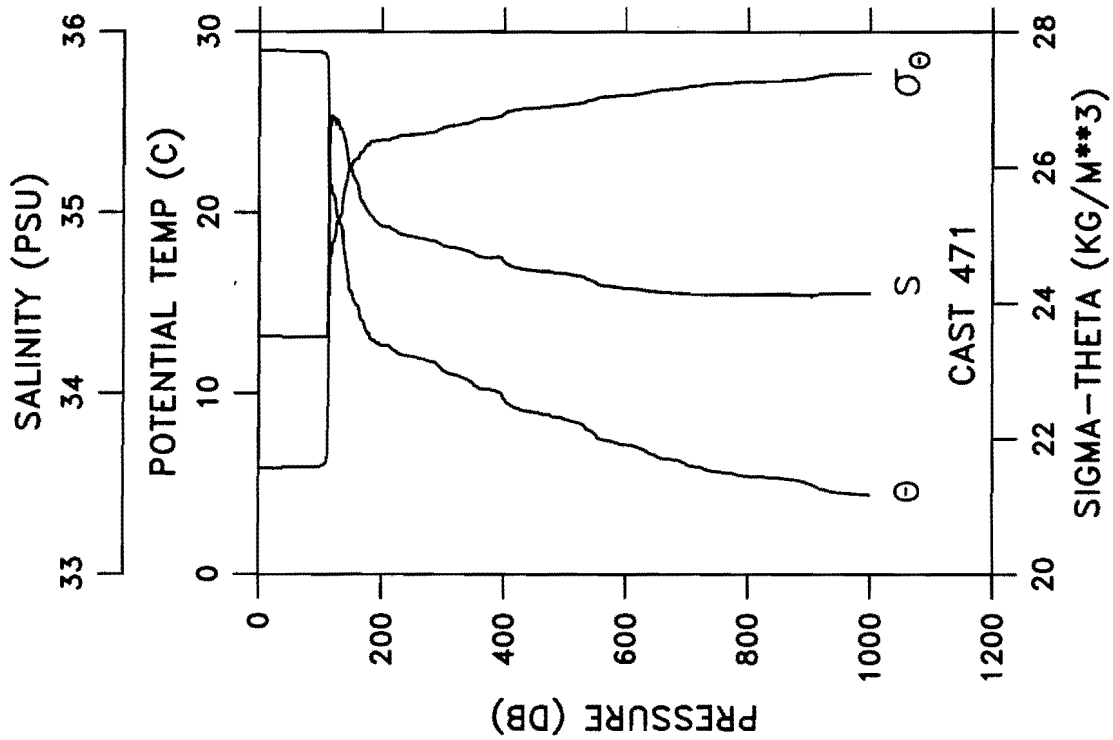


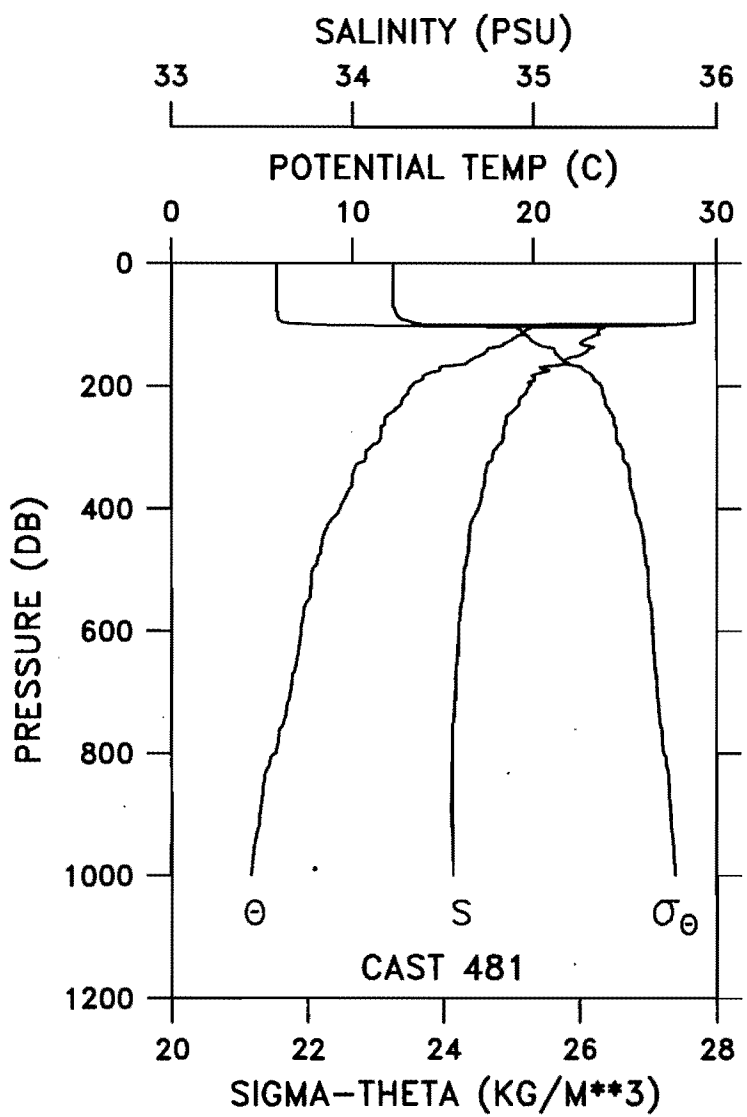
CAST GP7-97-KA-0461 DATE 04 DEC 97 TIME 0455 GMT
LAT 08 00.0N LONG 179 55.3W WEATHER 1 SEA STATE 4
BAROMETER 06 WIND DIR 041 T SPD 11 KT VISIBILITY 7
CLOUD 3 AMOUNT 2 DRY 28.8 WET 25.5 DEPTH 5959 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.176	34.209	21.745	0.000
10	28.174	34.210	21.746	0.061
20	28.097	34.209	21.771	0.121
30	28.020	34.209	21.796	0.181
40	24.634	34.759	23.271	0.235
50	22.964	34.824	23.812	0.278
60	21.093	34.822	24.334	0.316
70	19.539	34.812	24.740	0.350
80	18.405	34.739	24.973	0.382
90	16.836	34.706	25.328	0.410
100	15.609	34.651	25.568	0.435
110	14.433	34.597	25.785	0.458
120	13.879	34.571	25.881	0.480
130	13.069	34.562	26.040	0.501
140	12.513	34.561	26.150	0.520
150	11.977	34.562	26.254	0.538
160	11.575	34.564	26.331	0.556
170	11.198	34.576	26.410	0.573
180	10.868	34.588	26.479	0.589
190	10.758	34.592	26.501	0.604
200	10.527	34.632	26.574	0.620
250	9.865	34.658	26.708	0.691
300	9.426	34.659	26.783	0.758
350	9.032	34.642	26.833	0.823
400	8.660	34.625	26.878	0.887
450	8.224	34.606	26.931	0.948
500	7.782	34.588	26.983	1.007
550	7.363	34.573	27.032	1.063
600	6.782	34.558	27.100	1.117
650	6.353	34.545	27.148	1.168
700	5.987	34.545	27.195	1.217
750	5.621	34.542	27.238	1.265
800	5.245	34.543	27.284	1.310
900	4.735	34.549	27.348	1.395
1000	4.313	34.560	27.403	1.475
1009	4.258	34.560	27.409	1.482

CAST GP7-97-KA-0471 DATE 07 DEC 97 TIME 1146 GMT
LAT 01 00.2S LONG 169 59.8W WEATHER 1 SEA STATE 4
BAROMETER 06 WIND DIR 325 T SPD 10 KT VISIBILITY 7
CLOUD AMOUNT 2 DRY 28.3 WET 26.1 DEPTH 5248 M

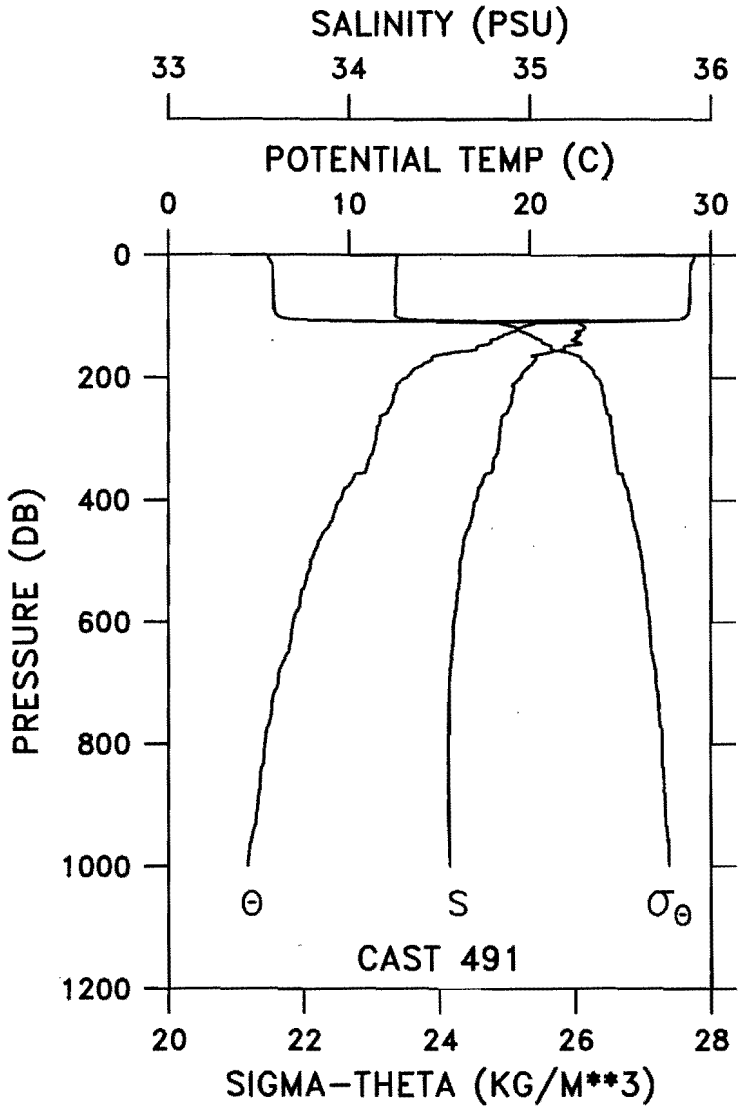
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.969	34.317	21.564	0.000
10	28.967	34.316	21.564	0.062
20	28.968	34.316	21.564	0.125
30	28.971	34.317	21.563	0.187
40	28.959	34.315	21.566	0.250
50	28.921	34.312	21.576	0.312
60	28.919	34.313	21.577	0.374
70	28.913	34.312	21.579	0.437
80	28.903	34.312	21.582	0.499
90	28.901	34.315	21.585	0.562
100	28.861	34.316	21.599	0.624
110	28.627	34.315	21.676	0.687
120	21.041	35.529	24.887	0.729
130	19.552	35.484	25.249	0.759
140	17.512	35.396	25.696	0.785
150	15.643	35.249	26.021	0.806
160	14.857	35.159	26.127	0.826
170	13.952	35.052	26.238	0.844
180	13.114	34.990	26.362	0.862
190	12.809	34.950	26.393	0.879
200	12.667	34.925	26.402	0.896
250	12.045	34.867	26.477	0.977
300	11.272	34.817	26.584	1.057
350	10.514	34.773	26.686	1.131
400	9.721	34.731	26.789	1.200
450	8.958	34.679	26.874	1.264
500	8.607	34.663	26.917	1.327
550	7.766	34.615	27.007	1.386
600	7.170	34.584	27.067	1.442
650	6.556	34.564	27.136	1.495
700	6.068	34.554	27.191	1.545
750	5.669	34.548	27.237	1.592
800	5.420	34.547	27.267	1.638
900	5.016	34.545	27.313	1.727
1000	4.389	34.555	27.391	1.807
1003	4.378	34.553	27.391	1.810





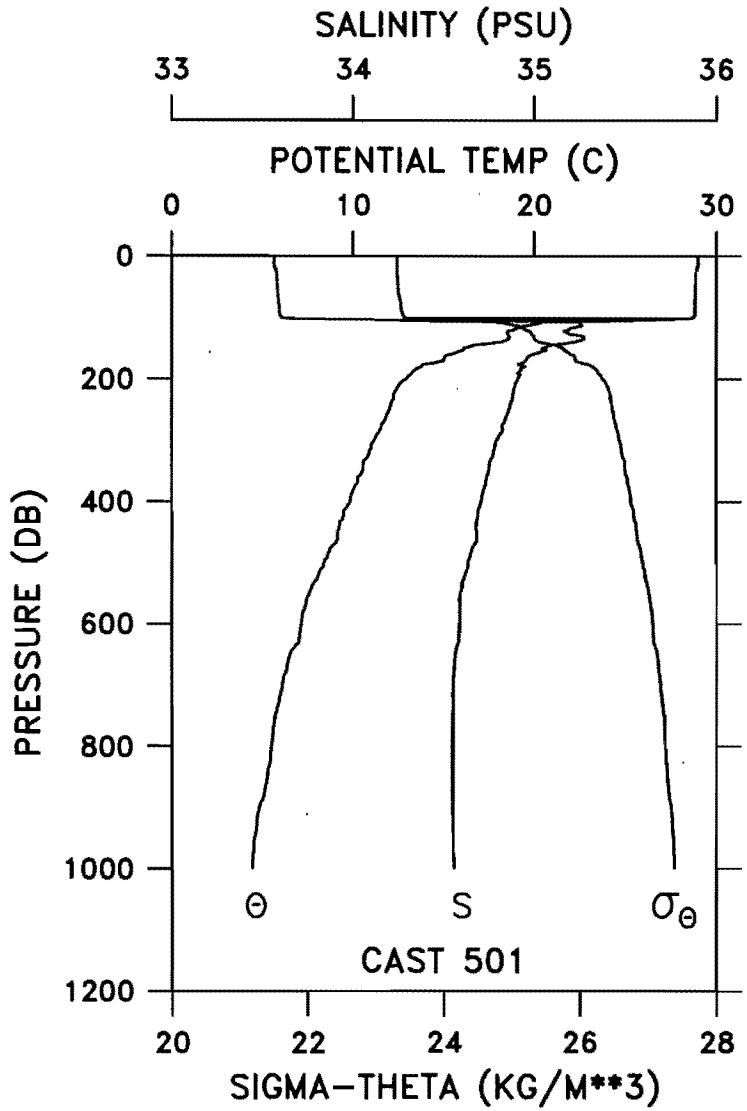
CAST GP7-97-KA-0481 DATE 07 DEC 97 TIME 2039 GMT
LAT 00 00.7S LONG 170 01.5W WEATHER 1 SEA STATE 4
BAROMETER 07 WIND DIR 017 T SPD 08 KT VISIBILITY 7
CLOUD 2 AMOUNT 6 DRY 28.5 WET 26.2 DEPTH 5589 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.833	34.221	21.537	0.000
10	28.830	34.223	21.540	0.063
20	28.832	34.224	21.540	0.125
30	28.830	34.224	21.540	0.188
40	28.830	34.224	21.540	0.250
50	28.828	34.224	21.541	0.313
60	28.820	34.224	21.544	0.376
70	28.809	34.227	21.550	0.439
80	28.811	34.238	21.557	0.502
90	28.831	34.262	21.569	0.564
100	27.528	34.397	22.097	0.626
110	19.544	35.357	25.155	0.662
120	19.036	35.322	25.259	0.690
130	18.433	35.258	25.363	0.717
140	17.466	35.304	25.637	0.742
150	17.098	35.254	25.687	0.766
160	16.421	35.163	25.776	0.789
170	14.806	35.034	26.041	0.811
180	14.162	35.018	26.167	0.830
190	13.815	35.006	26.231	0.849
200	13.248	34.979	26.327	0.867
250	11.803	34.850	26.511	0.951
300	10.959	34.797	26.625	1.028
350	9.995	34.731	26.743	1.099
400	9.305	34.695	26.830	1.166
450	8.322	34.645	26.947	1.228
500	7.776	34.618	27.007	1.286
550	7.536	34.607	27.033	1.343
600	7.143	34.588	27.075	1.397
650	6.887	34.577	27.101	1.451
700	6.542	34.568	27.141	1.503
750	6.148	34.558	27.184	1.553
800	5.720	34.551	27.233	1.601
900	4.827	34.549	27.337	1.687
1000	4.345	34.558	27.398	1.768
1006	4.341	34.557	27.398	1.772



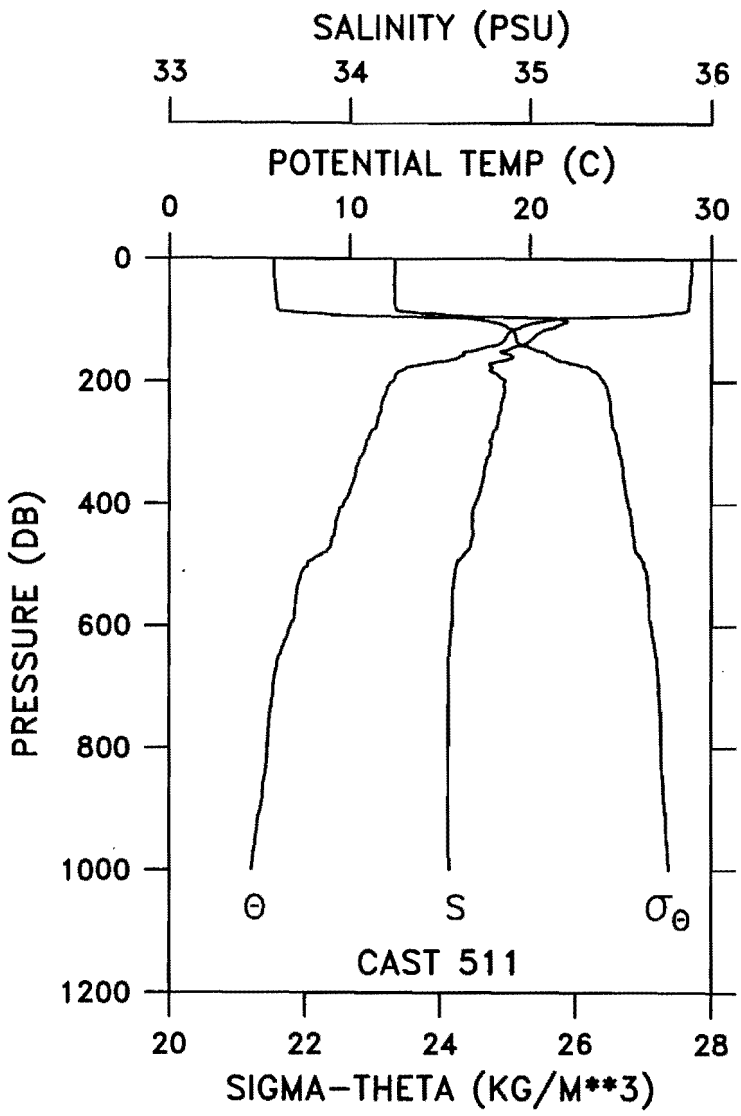
CAST GP7-97-KA-0491 DATE 08 DEC 97 TIME 0128 GMT
LAT 00 29.9N LONG 169 57.7W WEATHER 1 SEA STATE 4
BAROMETER 05 WIND DIR 029 T SPD 08 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 29.0 WET 26.0 DEPTH 5434 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.101	34.268	21.483	0.000
10	29.020	34.264	21.507	0.063
20	28.915	34.262	21.540	0.126
30	28.903	34.262	21.544	0.188
40	28.894	34.262	21.547	0.251
50	28.876	34.259	21.551	0.314
60	28.860	34.257	21.555	0.376
70	28.844	34.256	21.560	0.439
80	28.833	34.256	21.564	0.502
90	28.806	34.259	21.574	0.564
100	28.631	34.261	21.634	0.627
110	21.454	35.159	24.492	0.682
120	19.368	35.298	25.155	0.712
130	18.549	35.270	25.343	0.740
140	17.815	35.243	25.505	0.766
150	17.057	35.185	25.644	0.791
160	15.610	35.098	25.912	0.814
170	14.601	35.033	26.086	0.834
180	14.049	35.004	26.181	0.853
190	13.468	34.963	26.270	0.872
200	13.191	34.948	26.315	0.889
250	12.206	34.881	26.458	0.973
300	11.495	34.829	26.552	1.052
350	10.965	34.792	26.620	1.128
400	9.552	34.702	26.795	1.197
450	8.672	34.653	26.899	1.262
500	7.882	34.615	26.989	1.321
550	7.383	34.599	27.049	1.378
600	6.927	34.579	27.097	1.432
650	6.664	34.569	27.125	1.484
700	6.079	34.555	27.191	1.533
750	5.693	34.551	27.237	1.580
800	5.331	34.549	27.279	1.626
900	4.943	34.549	27.324	1.713
1000	4.414	34.557	27.390	1.794
1005	4.412	34.556	27.389	1.798



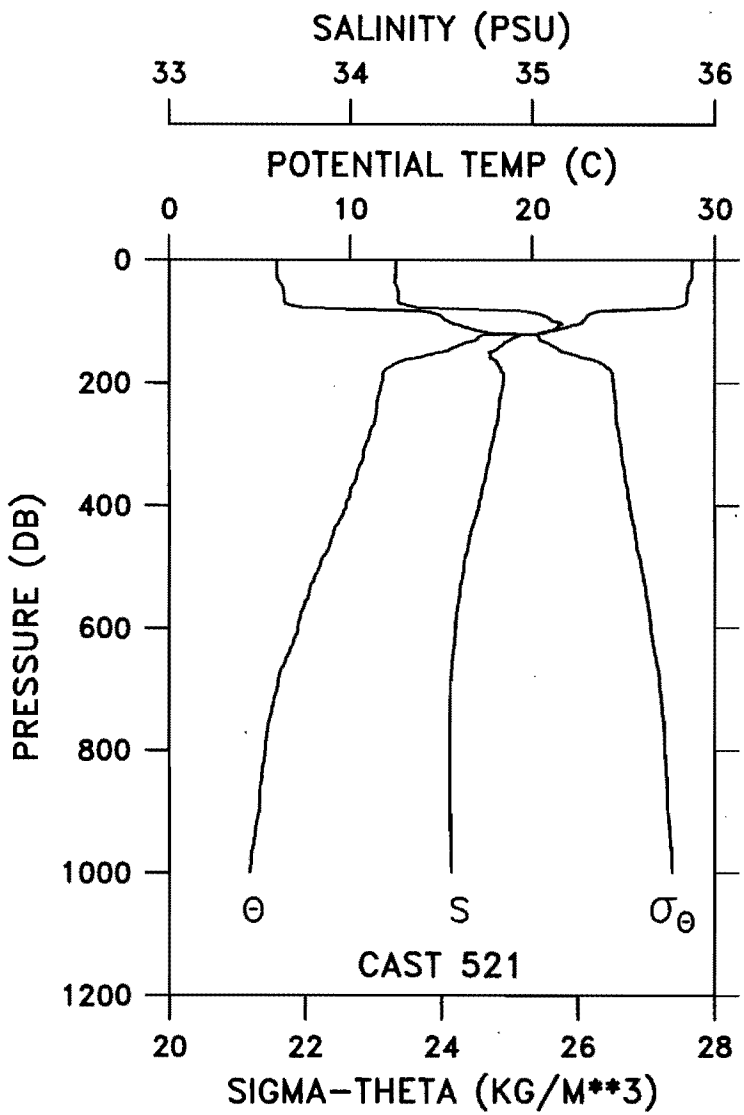
CAST GP7-97-KA-0501 DATE 08 DEC 97 TIME 0553 GMT
LAT 00 59.7N LONG 169 59.0W WEATHER 1 SEA STATE 4
BAROMETER 07 WIND DIR 355 T SPD 08 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 28.1 WET 25.7 DEPTH 5453 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.994	34.246	21.502	0.000
10	29.003	34.244	21.497	0.063
20	28.951	34.243	21.515	0.126
30	28.876	34.245	21.541	0.189
40	28.869	34.248	21.546	0.251
50	28.859	34.249	21.549	0.314
60	28.850	34.252	21.555	0.377
70	28.833	34.259	21.566	0.439
80	28.819	34.265	21.575	0.502
90	28.808	34.270	21.583	0.564
100	28.734	34.282	21.616	0.627
110	20.111	35.254	24.927	0.671
120	18.859	35.191	25.204	0.700
130	18.615	35.274	25.329	0.728
140	18.103	35.211	25.409	0.754
150	16.100	35.042	25.758	0.778
160	15.389	34.988	25.877	0.801
170	14.989	34.953	25.939	0.822
180	13.762	34.949	26.198	0.842
190	13.247	34.906	26.271	0.860
200	12.905	34.908	26.341	0.877
250	12.009	34.859	26.479	0.960
300	11.168	34.791	26.583	1.038
350	10.519	34.746	26.664	1.112
400	9.845	34.707	26.750	1.182
450	9.178	34.682	26.841	1.248
500	8.401	34.635	26.927	1.311
550	7.587	34.592	27.015	1.370
600	7.153	34.587	27.073	1.425
650	6.504	34.564	27.143	1.478
700	6.082	34.553	27.189	1.528
750	5.678	34.551	27.238	1.575
800	5.465	34.548	27.262	1.621
900	4.786	34.550	27.343	1.709
1000	4.409	34.557	27.390	1.789
1003	4.405	34.556	27.390	1.791



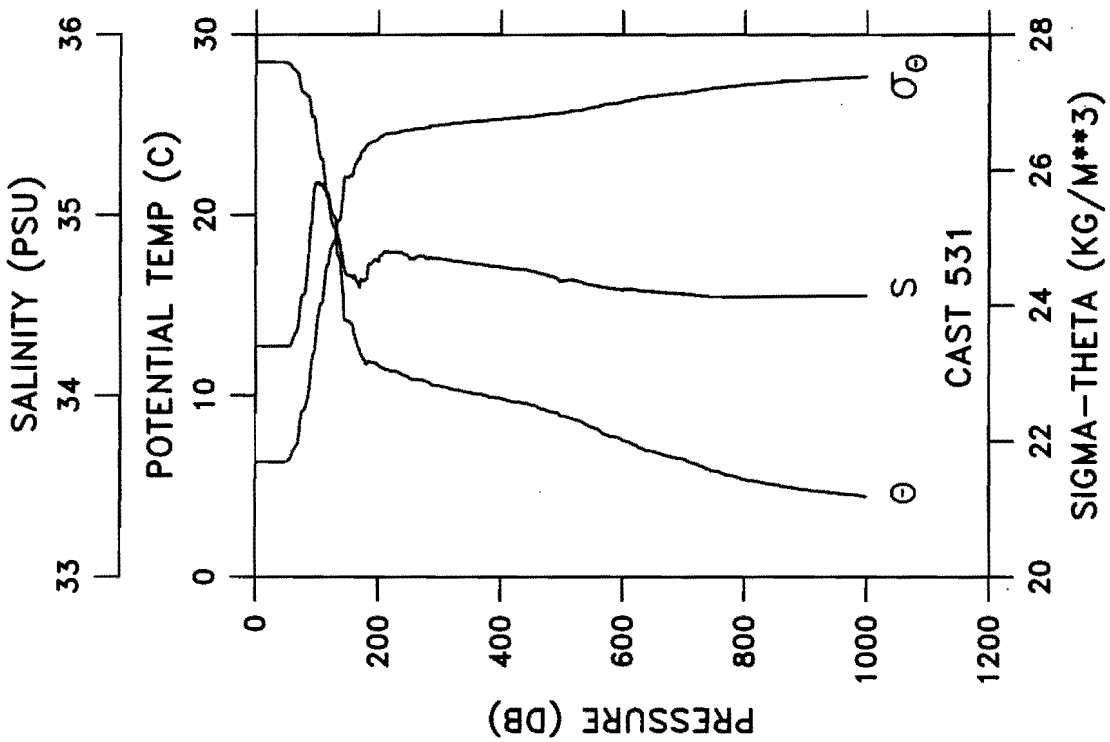
CAST GP7-97-KA-0511 DATE 08 DEC 97 TIME 1017 GMT
LAT 01 29.7N LONG 169 56.9W WEATHER 1 SEA STATE 4
BAROMETER 07 WIND DIR 025 T SPD 10 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.8 WET 25.5 DEPTH 5533 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.910	34.250	21.534	0.000
10	28.908	34.249	21.533	0.063
20	28.902	34.250	21.536	0.125
30	28.893	34.247	21.537	0.188
40	28.846	34.245	21.551	0.251
50	28.824	34.246	21.559	0.313
60	28.808	34.251	21.568	0.376
70	28.778	34.250	21.577	0.438
80	28.741	34.255	21.593	0.501
90	27.144	34.493	22.292	0.562
100	21.025	35.188	24.631	0.606
110	19.560	35.146	24.990	0.637
120	18.851	35.056	25.103	0.666
130	18.612	35.013	25.131	0.695
140	18.206	34.960	25.192	0.724
150	16.853	34.851	25.436	0.750
160	16.088	34.905	25.655	0.775
170	14.555	34.788	25.906	0.798
180	13.011	34.784	26.224	0.817
190	12.522	34.825	26.353	0.835
200	12.389	34.863	26.408	0.852
250	11.722	34.835	26.514	0.932
300	10.924	34.785	26.622	1.008
350	10.330	34.746	26.697	1.081
400	9.644	34.696	26.775	1.150
450	9.135	34.684	26.849	1.216
500	7.650	34.593	27.006	1.277
550	7.017	34.572	27.079	1.331
600	6.683	34.565	27.119	1.384
650	6.036	34.552	27.195	1.434
700	5.738	34.549	27.230	1.481
750	5.513	34.548	27.256	1.527
800	5.415	34.546	27.267	1.572
900	5.044	34.547	27.311	1.660
1000	4.531	34.554	27.375	1.743
1004	4.524	34.553	27.375	1.746



CAST GP7-97-KA-0521 DATE 08 DEC 97 TIME 1444 GMT
LAT 01 55.8N LONG 169 56.8W WEATHER 1 SEA STATE 4
BAROMETER 07 WIND DIR 028 T SPD 12 KT VISIBILITY 7
CLOUD 4 AMOUNT 6 DRY 27.3 WET 25.5 DEPTH 5372 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.780	34.251	21.577	0.000
10	28.780	34.248	21.575	0.062
20	28.778	34.249	21.576	0.124
30	28.743	34.246	21.586	0.187
40	28.564	34.251	21.649	0.249
50	28.503	34.262	21.677	0.310
60	28.480	34.263	21.685	0.372
70	28.433	34.268	21.705	0.433
80	26.239	34.600	22.659	0.492
90	23.022	35.060	23.975	0.535
100	22.722	35.120	24.106	0.574
110	21.795	35.134	24.379	0.611
120	19.897	35.021	24.806	0.645
130	16.897	34.878	25.446	0.672
140	15.907	34.829	25.638	0.696
150	14.962	34.760	25.796	0.719
160	13.482	34.777	26.123	0.740
170	12.366	34.813	26.374	0.758
180	11.891	34.831	26.479	0.774
190	11.784	34.845	26.510	0.790
200	11.726	34.840	26.517	0.806
250	11.427	34.815	26.554	0.883
300	10.867	34.778	26.627	0.958
350	10.368	34.746	26.690	1.031
400	9.776	34.707	26.762	1.100
450	9.035	34.658	26.845	1.167
500	8.316	34.624	26.931	1.229
550	7.666	34.601	27.010	1.288
600	7.100	34.579	27.074	1.343
650	6.419	34.562	27.152	1.395
700	5.929	34.552	27.208	1.443
750	5.514	34.547	27.255	1.490
800	5.284	34.546	27.282	1.534
900	4.928	34.548	27.325	1.621
1000	4.431	34.556	27.388	1.702
1500	2.986	34.601	27.568	2.052
2000	2.103	34.639	27.675	2.333
2500	1.724	34.660	27.721	2.583
3000	1.424	34.674	27.754	2.816
3005	1.423	34.673	27.754	2.818

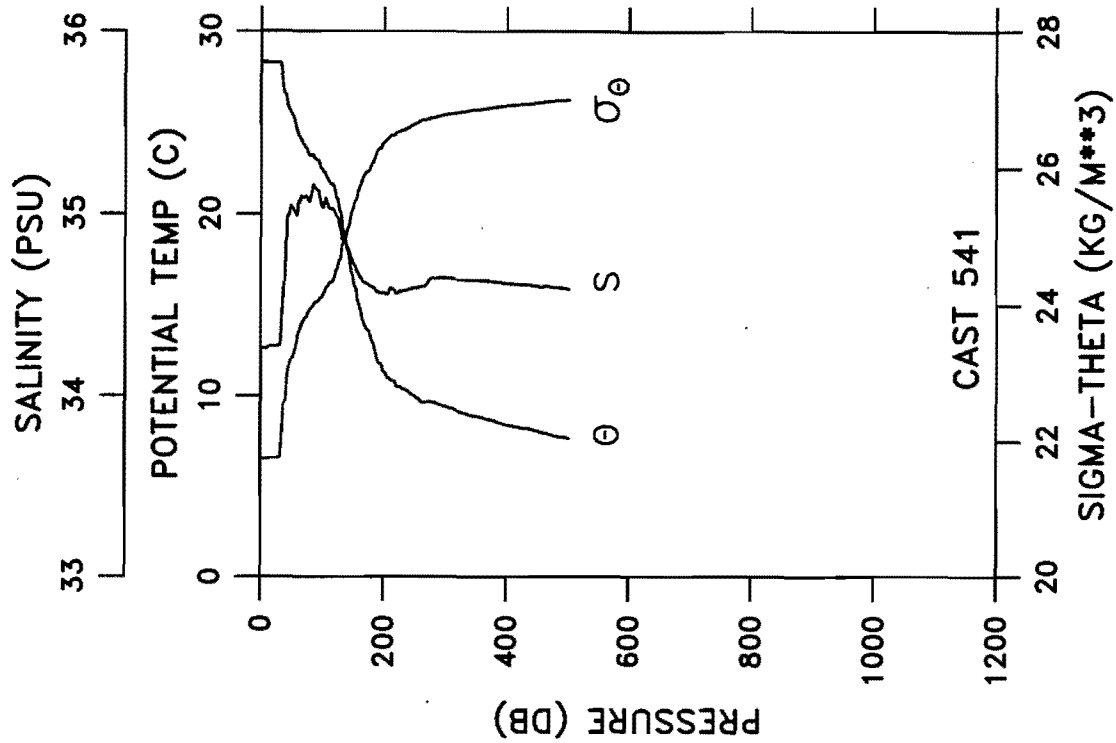


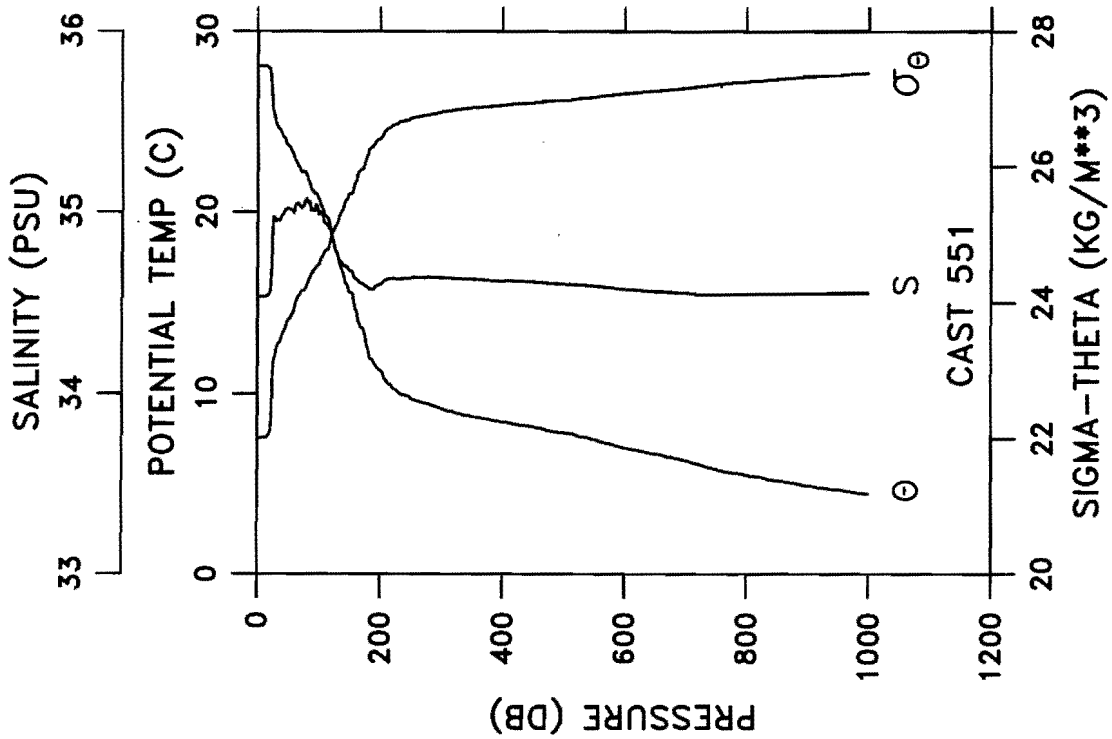
CAST GP7-97-KA-0531 DATE 09 DEC 97 TIME 1520 GMT
LAT 03 00.3N LONG 169 59.5W WEATHER 1 SEA STATE 4
BAROMETER 08 WIND DIR 043 T SPD 06 KT VISIBILITY 7
CLOUD 4 AMOUNT 3 DRY 27.3 WET 25.9 DEPTH 5465 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.483	34.277	21.695	0.000
10	28.484	34.275	21.693	0.061
20	28.484	34.275	21.693	0.122
30	28.483	34.275	21.694	0.183
40	28.482	34.275	21.694	0.245
50	28.453	34.274	21.703	0.306
60	28.125	34.311	21.838	0.367
70	27.679	34.414	22.060	0.426
80	26.743	34.570	22.477	0.481
90	25.849	34.942	23.038	0.533
100	24.118	35.172	23.739	0.579
110	22.707	35.148	24.132	0.618
120	20.384	35.087	24.728	0.653
130	19.045	34.980	24.995	0.684
140	16.414	34.789	25.490	0.712
150	14.143	34.667	25.900	0.734
160	13.464	34.664	26.039	0.755
170	12.381	34.625	26.225	0.774
180	11.758	34.642	26.358	0.792
190	11.842	34.740	26.418	0.809
200	11.650	34.745	26.457	0.825
250	10.998	34.763	26.592	0.902
300	10.544	34.758	26.669	0.975
350	10.178	34.734	26.714	1.046
400	9.863	34.713	26.752	1.115
450	9.498	34.690	26.794	1.183
500	8.890	34.635	26.850	1.249
550	8.274	34.614	26.929	1.312
600	7.561	34.587	27.014	1.371
650	6.929	34.577	27.096	1.426
700	6.511	34.566	27.143	1.478
750	5.851	34.552	27.218	1.527
800	5.391	34.547	27.270	1.573
900	4.825	34.551	27.339	1.659
1000	4.449	34.557	27.386	1.741
1004	4.438	34.556	27.387	1.744

CAST GP7-97-KA-0541 DATE 09 DEC 97 TIME 2224 GMT
LAT 04 00.2N LONG 169 58.3W WEATHER 8 SEA STATE 3
BAROMETER 09 WIND DIR 100 T SPD 10 KT VISIBILITY 2
CLOUD 7 AMOUNT 8 DRY 27.5 WET 26.0 DEPTH 5682 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.316	34.268	21.743	0.000
10	28.314	34.265	21.741	0.061
20	28.301	34.279	21.756	0.121
30	28.293	34.280	21.760	0.182
40	26.590	34.708	22.630	0.238
50	25.476	35.040	23.228	0.286
60	24.370	35.066	23.583	0.332
70	23.748	35.089	23.785	0.374
80	23.200	35.090	23.946	0.415
90	22.971	35.136	24.047	0.454
100	22.428	35.034	24.125	0.493
110	21.803	35.034	24.300	0.530
120	21.269	35.007	24.427	0.566
130	19.945	34.893	24.696	0.600
140	18.107	34.823	25.111	0.631
150	16.465	34.734	25.437	0.658
160	14.913	34.659	25.729	0.683
170	13.807	34.622	25.936	0.705
180	13.103	34.602	26.064	0.725
190	11.966	34.574	26.265	0.744
200	11.358	34.567	26.373	0.762
250	9.986	34.597	26.640	0.840
300	9.425	34.650	26.775	0.908
350	8.903	34.637	26.850	0.973
400	8.419	34.620	26.912	1.035
450	8.087	34.605	26.951	1.095
500	7.694	34.590	26.997	1.153
502	7.667	34.588	26.999	1.155



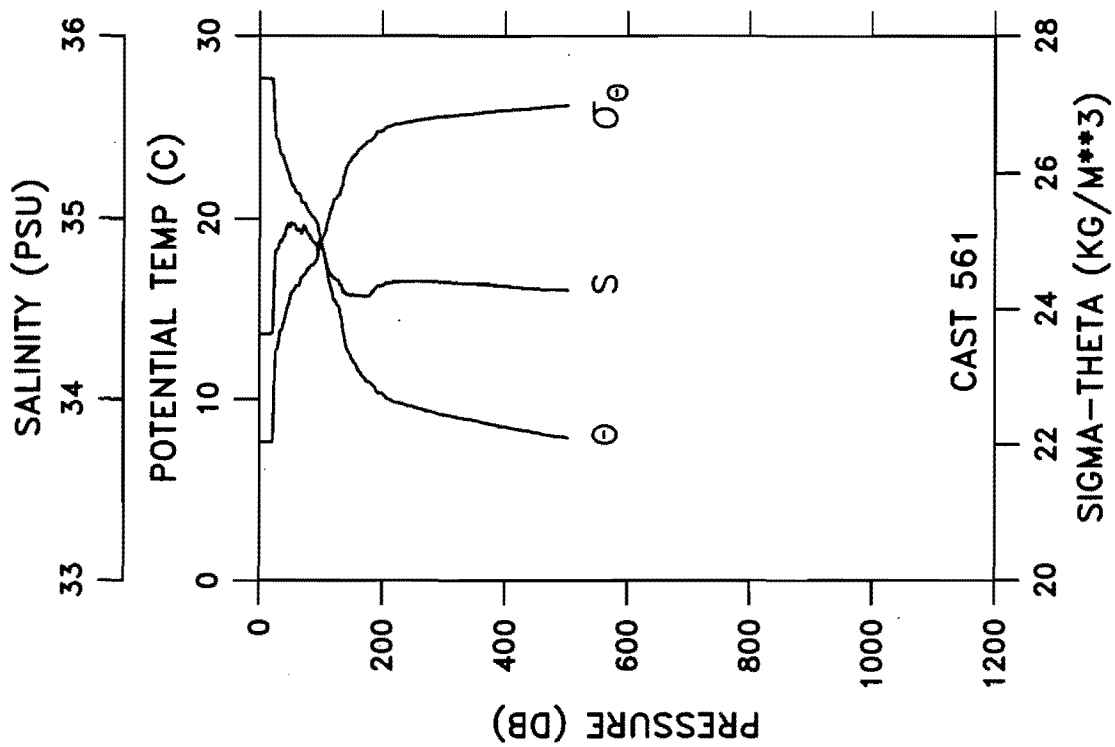


CAST GP7-97-KA-0551 DATE 10 DEC 97 TIME 0552 GMT
LAT 05 00.4N LONG 169 56.8W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 056 T SPD 17 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.7 WET 26.0 DEPTH 5744 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.092	34.534	22.017	0.000
10	28.087	34.537	22.020	0.058
20	27.909	34.558	22.094	0.116
30	24.932	34.950	23.326	0.166
40	24.306	34.985	23.541	0.211
50	23.635	35.017	23.764	0.253
60	22.980	35.004	23.944	0.294
70	22.294	35.027	24.157	0.333
80	22.051	35.075	24.262	0.370
90	21.154	35.012	24.462	0.406
100	20.706	34.986	24.564	0.440
110	19.801	34.939	24.769	0.473
120	18.782	34.883	24.988	0.505
130	17.721	34.765	25.161	0.534
140	16.506	34.707	25.407	0.561
150	15.573	34.678	25.597	0.586
160	14.620	34.636	25.774	0.610
170	13.639	34.609	25.960	0.631
180	12.465	34.582	26.176	0.651
190	11.659	34.579	26.327	0.669
200	11.319	34.602	26.408	0.686
250	9.741	34.640	26.715	0.760
300	9.173	34.640	26.809	0.826
350	8.740	34.632	26.871	0.890
400	8.444	34.621	26.909	0.951
450	8.187	34.618	26.946	1.011
500	7.847	34.605	26.987	1.069
550	7.471	34.595	27.033	1.126
600	6.996	34.576	27.085	1.181
650	6.654	34.564	27.123	1.233
700	6.286	34.555	27.165	1.284
750	5.816	34.547	27.218	1.333
800	5.490	34.546	27.258	1.379
900	4.888	34.550	27.332	1.466
1000	4.439	34.557	27.387	1.548
1003	4.438	34.557	27.387	1.550

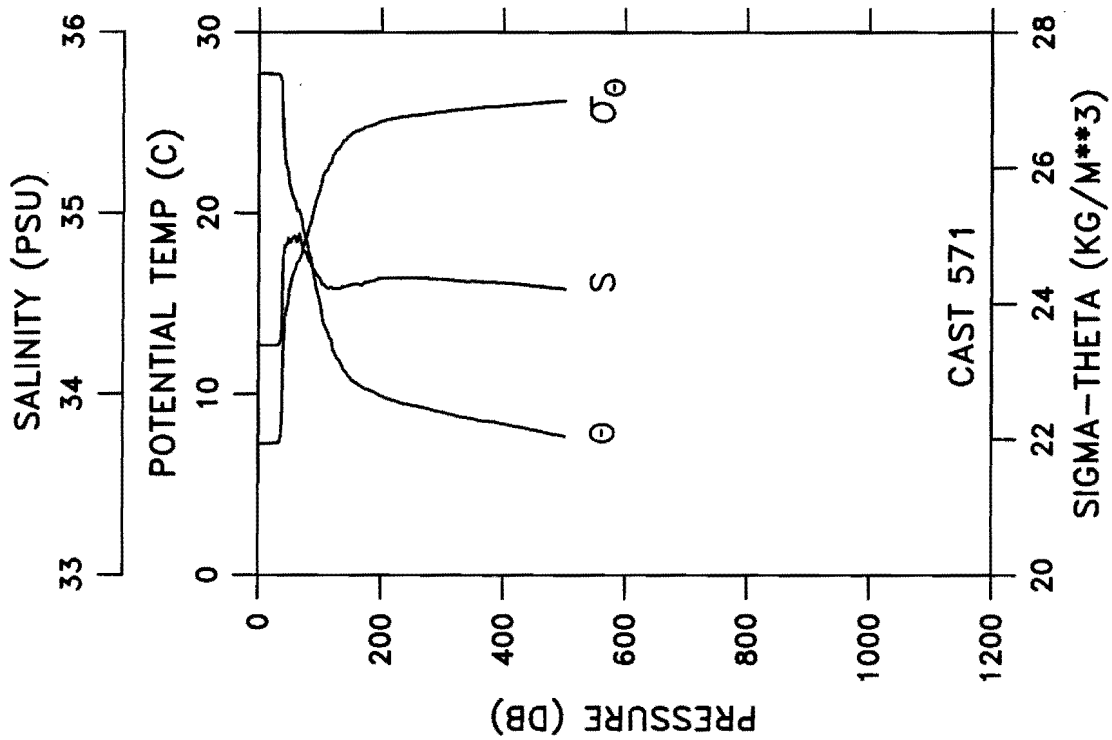
CAST GP7-97-KA-0561 DATE 10 DEC 97 TIME 1517 GMT
LAT 06 00.1N LONG 169 59.0W WEATHER 1 SEA STATE 4
BAROMETER 08 WIND DIR 054 T SPD 16 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.0 WET 25.1 DEPTH 5434 M

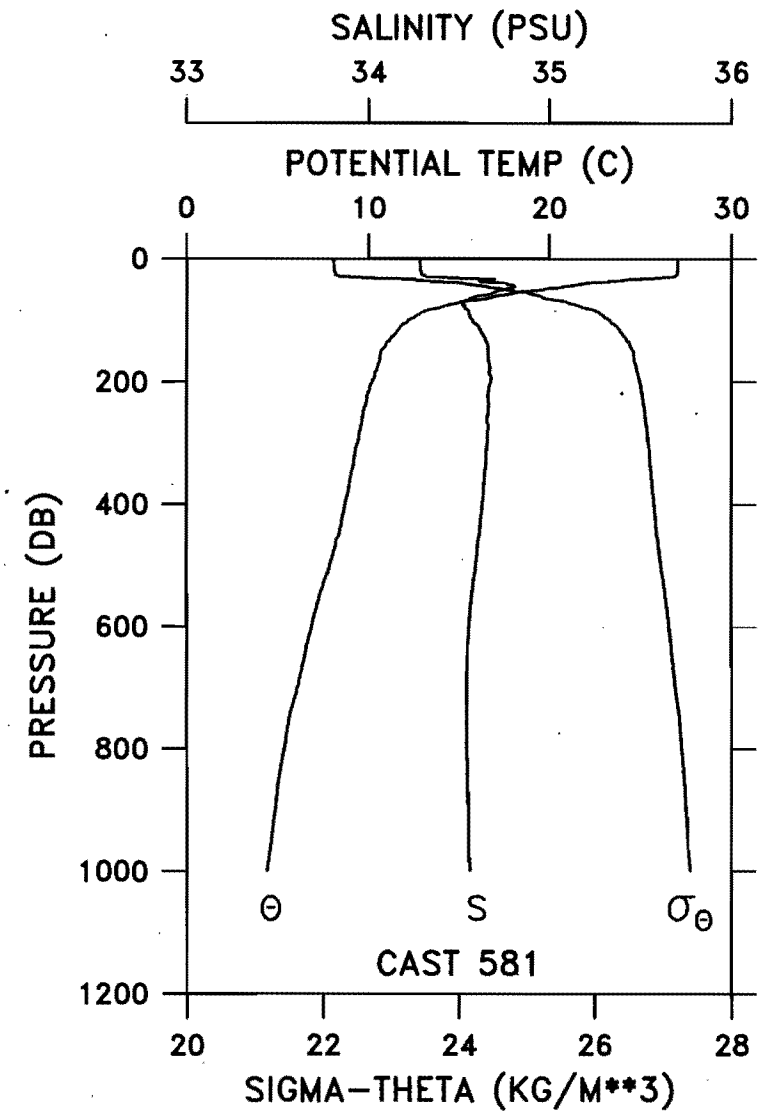
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.648	34.365	22.034	0.000
10	27.652	34.364	22.031	0.058
20	27.638	34.367	22.039	0.116
30	24.246	34.829	23.441	0.165
40	23.158	34.901	23.815	0.208
50	22.075	34.962	24.169	0.247
60	21.390	34.936	24.340	0.284
70	20.868	34.943	24.488	0.319
80	20.344	34.905	24.600	0.353
90	19.932	34.864	24.677	0.386
100	18.742	34.852	24.975	0.418
110	17.123	34.738	25.285	0.447
120	15.527	34.671	25.602	0.473
130	15.021	34.638	25.689	0.496
140	13.035	34.589	26.068	0.518
150	12.228	34.581	26.221	0.537
160	11.625	34.576	26.331	0.555
170	11.233	34.571	26.399	0.572
180	10.911	34.579	26.464	0.588
190	10.418	34.624	26.586	0.603
200	10.323	34.629	26.607	0.618
250	9.606	34.652	26.747	0.687
300	9.150	34.650	26.820	0.752
350	8.840	34.640	26.862	0.816
400	8.493	34.629	26.908	0.877
450	8.165	34.613	26.946	0.937
500	7.890	34.606	26.981	0.996
502	7.865	34.605	26.984	0.998



CAST GP7-97-KA-0571 DATE 10 DEC 97 TIME 2301 GMT
LAT 07 00.3N LONG 170 00.3W WEATHER 1 SEA STATE 5
BAROMETER 10 WIND DIR 070 T SPD 16 KT VISIBILITY 7
CLOUD 7 AMOUNT 4 DRY 27.7 WET 25.0 DEPTH 5928 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.721	34.272	21.940	0.000
10	27.714	34.270	21.941	0.059
20	27.711	34.270	21.942	0.117
30	27.700	34.270	21.945	0.176
40	24.498	34.745	23.302	0.233
50	21.588	34.840	24.212	0.273
60	20.562	34.870	24.515	0.309
70	19.637	34.830	24.729	0.342
80	18.242	34.756	25.026	0.373
90	16.457	34.684	25.401	0.401
100	15.026	34.639	25.689	0.425
110	13.595	34.589	25.954	0.447
120	12.642	34.584	26.142	0.467
130	11.944	34.583	26.277	0.485
140	11.283	34.593	26.407	0.502
150	10.864	34.604	26.492	0.518
160	10.596	34.610	26.544	0.533
170	10.374	34.605	26.580	0.548
180	10.227	34.622	26.619	0.563
190	10.094	34.631	26.648	0.578
200	9.897	34.641	26.690	0.592
250	9.374	34.644	26.779	0.659
300	9.009	34.635	26.832	0.723
350	8.644	34.625	26.881	0.786
400	8.376	34.616	26.916	0.847
450	8.014	34.598	26.956	0.906
500	7.667	34.582	26.995	0.964
501	7.660	34.581	26.995	0.965



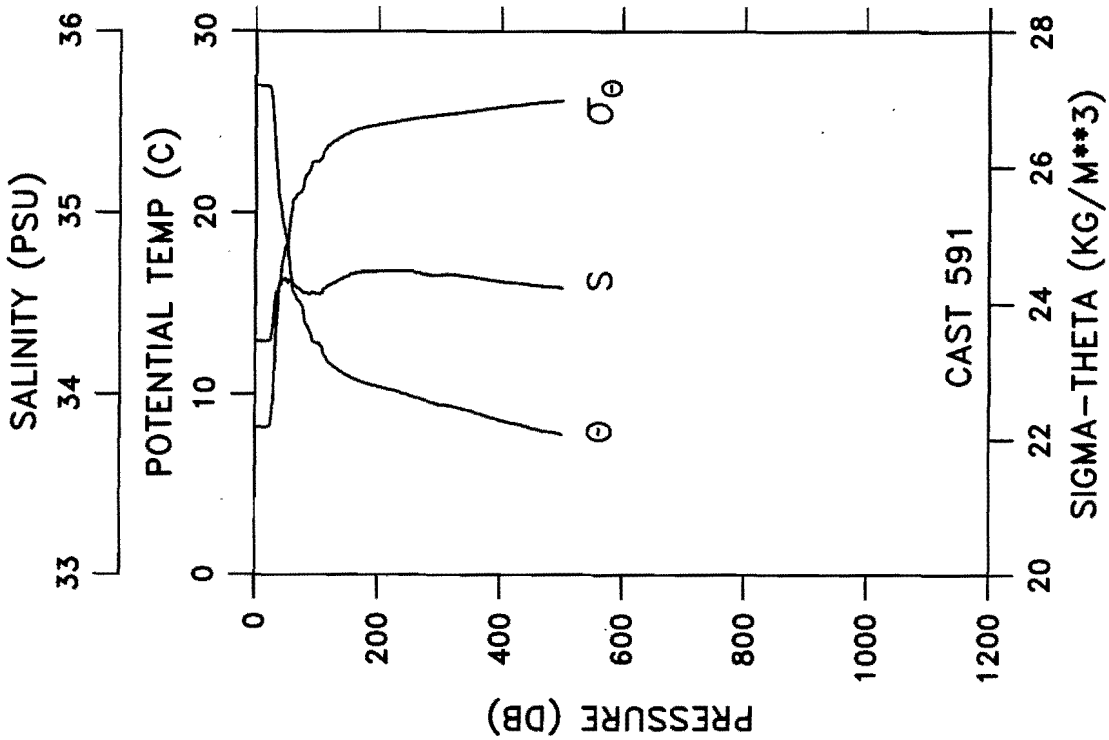


CAST GP7-97-KA-0581 DATE 11 DEC 97 TIME 0634 GMT
LAT 07 50.5N LONG 170 01.6W WEATHER 1 SEA STATE 5
BAROMETER 10 WIND DIR 061 T SPD 18 KT VISIBILITY 7
CLOUD 4 AMOUNT 2 DRY 26.1 WET 24.4 DEPTH 5549 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.071	34.284	22.158	0.000
10	27.070	34.286	22.160	0.057
20	27.057	34.290	22.167	0.113
30	26.302	34.411	22.497	0.169
40	21.914	34.762	24.063	0.215
50	19.672	34.754	24.662	0.250
60	17.128	34.610	25.186	0.280
70	15.089	34.525	25.587	0.306
80	13.854	34.534	25.858	0.329
90	12.811	34.557	26.088	0.349
100	12.188	34.578	26.226	0.368
110	11.789	34.608	26.325	0.386
120	11.516	34.627	26.391	0.403
130	11.209	34.647	26.463	0.419
140	10.958	34.662	26.520	0.435
150	10.695	34.664	26.569	0.450
160	10.641	34.665	26.579	0.465
170	10.544	34.669	26.599	0.479
180	10.445	34.671	26.619	0.494
190	10.331	34.677	26.643	0.508
200	10.200	34.677	26.666	0.523
250	9.711	34.662	26.737	0.592
300	9.405	34.658	26.785	0.658
350	9.040	34.643	26.833	0.723
400	8.708	34.629	26.875	0.786
450	8.371	34.613	26.914	0.848
500	7.864	34.593	26.975	0.908
550	7.307	34.570	27.038	0.964
600	6.870	34.556	27.087	1.018
650	6.451	34.548	27.137	1.070
700	6.036	34.544	27.188	1.120
750	5.589	34.544	27.244	1.168
800	5.318	34.545	27.277	1.213
900	4.831	34.551	27.339	1.298
1000	4.362	34.562	27.399	1.379
1500	2.735	34.608	27.596	1.718
2000	1.981	34.645	27.689	1.987
2500	1.674	34.663	27.727	2.228
3000	1.448	34.673	27.752	2.460
3500	1.265	34.682	27.772	2.685
4000	1.084	34.692	27.792	2.904
4500	0.910	34.702	27.812	3.114
5000	0.865	34.704	27.816	3.324
5041	0.863	34.704	27.817	3.342

CAST GP7-97-KA-0591 DATE 12 DEC 97 TIME 0406 GMT
LAT 08 01.6N LONG 170 03.2W WEATHER 1 SEA STATE 5
BAROMETER 11 WIND DIR 045 T SPD 18 KT VISIBILITY 7
CLOUD 8 AMOUNT 4 DRY 27.2 WET 25.0 DEPTH 5477 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.019	34.294	22.182	0.000
10	27.014	34.293	22.183	0.056
20	26.996	34.295	22.190	0.113
30	25.062	34.442	22.903	0.168
40	20.565	34.608	24.314	0.209
50	18.606	34.633	24.841	0.242
60	15.877	34.613	25.479	0.271
70	15.172	34.584	25.614	0.295
80	14.019	34.559	25.843	0.318
90	13.355	34.556	25.978	0.339
100	12.829	34.557	26.085	0.359
110	12.260	34.581	26.214	0.378
120	11.753	34.602	26.327	0.396
130	11.476	34.618	26.391	0.413
140	11.241	34.637	26.449	0.429
150	11.046	34.652	26.497	0.445
160	10.858	34.667	26.542	0.460
170	10.724	34.673	26.571	0.475
180	10.594	34.678	26.598	0.490
190	10.507	34.679	26.614	0.505
200	10.406	34.680	26.633	0.519
250	9.950	34.681	26.711	0.590
300	9.433	34.659	26.781	0.658
350	9.096	34.650	26.829	0.723
400	8.565	34.623	26.892	0.786
450	8.121	34.604	26.945	0.846
500	7.778	34.586	26.982	0.905
501	7.764	34.586	26.984	0.906



CAST GP7-97-KA-0011 LAT 09 22.0N LONG 155 18.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
505.	7.337	34.566	7.288	27.036
505.	7.342	34.565	7.293	27.036
505.	7.346	34.565	7.297	27.035
504.	7.362	34.566	7.313	27.033
505.	7.352	34.566	7.302	27.035
504.	7.367	34.565	7.317	27.032
505.	7.358	34.565	7.309	27.034
505.	7.379	34.566	7.329	27.031
505.	7.380	34.566	7.330	27.031
505.	7.385	34.566	7.335	27.030
505.	7.387	34.567	7.338	27.030
505.	7.392	34.567	7.343	27.029

CAST GP7-97-KA-0021 LAT 08 01.0N LONG 155 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.713	33.780	28.711	21.246
200.	10.532	34.707	10.508	26.638
1001.	4.465	34.562	4.386	27.397
2000.	2.240	34.639	2.100	27.675
2498.	1.870	34.665	1.692	27.727
3000.	1.702	34.675	1.481	27.751

CAST GP7-97-KA-0031 LAT 07 00.3N LONG 154 57.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.886	33.878	28.883	21.262
200.	10.268	34.653	10.245	26.640
600.	6.814	34.565	6.757	27.110
800.	5.444	34.549	5.376	27.274
1002.	4.534	34.561	4.454	27.388

CAST GP7-97-KA-0041 LAT 05 59.9N LONG 154 56.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.766	33.958	28.763	21.334
200.	10.300	34.645	10.276	26.628
599.	7.031	34.572	6.973	27.086
800.	5.616	34.550	5.547	27.254
1001.	4.729	34.558	4.648	27.365
1001.	4.729	34.558	4.648	27.365

CAST GP7-97-KA-0051 LAT 05 01.4N LONG 154 53.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	28.941	34.159	28.938	21.455
200.	11.229	34.603	11.204	26.428
600.	7.305	34.581	7.247	27.055
799.	5.739	34.550	5.669	27.239
1003.	4.742	34.561	4.661	27.365
1003.	4.742	34.560	4.660	27.365

CAST GP7-97-KA-0071 LAT 02 59.9N LONG 154 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.243	34.105	29.241	21.314
199.	11.674	34.810	11.649	26.510
600.	7.652	34.601	7.592	27.021
800.	5.780	34.551	5.709	27.235
1002.	4.754	34.555	4.672	27.359
1002.	4.754	34.554	4.672	27.359

CAST GP7-97-KA-0081 LAT 01 57.8N LONG 154 57.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.495	34.183	29.492	21.285
200.	12.095	34.845	12.069	26.456
600.	7.454	34.592	7.394	27.042
800.	5.507	34.548	5.438	27.264
1003.	4.562	34.565	4.482	27.383
1003.	4.557	34.558	4.476	27.383

CAST GP7-97-KA-0091 LAT 01 30.0N LONG 154 54.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.488	34.101	29.485	21.229
200.	12.276	34.856	12.250	26.431
600.	7.157	34.581	7.098	27.075
799.	5.568	34.550	5.499	27.259
1003.	4.675	34.561	4.594	27.369
1004.	4.674	34.555	4.593	27.369

CAST GP7-97-KA-0101 LAT 01 00.2N LONG 154 50.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.504	34.049	29.501	21.185
200.	12.434	34.875	12.408	26.415
601.	6.993	34.573	6.935	27.093
800.	5.530	34.550	5.461	27.264
1003.	4.590	34.557	4.510	27.379
1003.	4.586	34.556	4.506	27.379

CAST GP7-97-KA-0111 LAT 00 30.1N LONG 154 47.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	29.406	33.973	29.404	21.162
200.	12.731	34.873	12.704	26.368
601.	7.265	34.588	7.206	27.067
801.	5.635	34.548	5.566	27.250
1002.	4.688	34.553	4.607	27.366
1002.	4.683	34.553	4.602	27.367

CAST GP7-97-KA-0131 LAT 00 59.9S LONG 154 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.576	34.003	29.573	21.125
200.	13.142	35.013	13.115	26.333
600.	6.871	34.567	6.814	27.104
800.	5.166	34.546	5.099	27.303
1003.	4.404	34.555	4.325	27.399
1002.	4.404	34.556	4.325	27.399

CAST GP7-97-KA-0141 LAT 02 00.9S LONG 154 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	29.561	34.335	29.559	21.379
201.	12.875	34.914	12.847	26.358
601.	7.528	34.609	7.468	27.045
800.	5.587	34.540	5.518	27.253
1002.	4.557	34.552	4.476	27.379
1002.	4.553	34.569	4.473	27.379

CAST GP7-97-KA-0151 LAT 03 00.7S LONG 154 53.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.994	35.087	29.994	21.794
10.	29.841	35.080	29.839	21.842
26.	29.597	35.070	29.591	21.920
40.	29.559	35.081	29.549	21.945
59.	29.537	35.097	29.523	21.965
100.	28.871	35.320	28.847	22.359
150.	23.857	35.869	23.826	24.361
200.	13.278	34.952	13.250	26.305
400.	10.805	34.798	10.756	26.663
599.	6.996	34.585	6.939	27.099
1001.	4.531	34.549	4.451	27.379
1003.	4.522	34.549	4.442	27.380

CAST GP7-97-KA-0161 LAT 03 59.9S LONG 154 42.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.681	35.154	29.681	21.954
11.	29.647	35.153	29.645	21.963
39.	29.466	35.181	29.456	22.052
60.	29.211	35.242	29.196	22.184
100.	28.642	35.519	28.618	22.584
100.	28.653	35.519	28.628	22.580
149.	21.329	35.919	21.300	25.113
199.	15.933	35.248	15.901	25.964
400.	9.632	34.728	9.586	26.808
599.	7.249	34.598	7.190	27.075
799.	5.877	34.550	5.806	27.223
1002.	4.994	34.549	4.911	27.329

CAST GP7-97-KA-0171 LAT 04 57.0S LONG 154 58.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.646	35.316	29.645	22.087
9.	29.651	35.313	29.649	22.084
26.	29.651	35.318	29.645	22.087
41.	29.469	35.319	29.458	22.157
59.	28.742	35.542	28.727	22.562
100.	28.529	35.661	28.505	22.728
149.	22.419	36.099	22.389	24.941
199.	15.210	35.209	15.180	26.086
400.	9.387	34.705	9.342	26.831
601.	7.099	34.590	7.041	27.089
799.	5.973	34.551	5.901	27.211
999.	4.970	34.545	4.887	27.328

CAST GP7-97-KA-0181 LAT 05 59.8S LONG 154 58.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.722	35.032	29.722	21.834
9.	29.729	35.016	29.727	21.833
25.	29.741	35.039	29.735	21.849
40.	29.718	35.144	29.708	21.939
61.	28.814	35.379	28.799	22.416
102.	28.253	35.629	28.229	22.803
151.	24.435	36.386	24.402	24.572
400.	9.246	34.694	9.201	26.847
601.	7.263	34.600	7.204	27.065
799.	5.750	34.543	5.680	27.230
1003.	4.707	34.539	4.626	27.354

CAST GP7-97-KA-0191 LAT 06 59.9S LONG 154 58.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	29.502	35.366	29.501	22.173
10.	29.495	35.364	29.493	22.174
24.	29.602	35.535	29.596	22.269
39.	29.456	35.570	29.447	22.345
59.	29.045	35.623	29.030	22.522
100.	28.304	35.703	28.280	22.827
151.	25.379	36.374	25.345	24.276
199.	21.649	36.050	21.609	25.125
399.	8.950	34.675	8.907	26.876
599.	6.629	34.557	6.573	27.126
798.	5.511	34.539	5.442	27.258
1000.	4.511	34.544	4.431	27.378

CAST GP7-97-KA-0201 LAT 08 16.9S LONG 154 56.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
6.	29.724	35.428	29.722	22.144
12.	29.724	35.429	29.721	22.145
25.	29.729	35.431	29.723	22.146
39.	29.700	35.445	29.691	22.167
60.	29.514	35.527	29.499	22.295
100.	27.925	35.896	27.901	23.128
151.	24.562	36.464	24.530	24.593
201.	21.092	35.953	21.053	25.208
401.	9.642	34.717	9.596	26.798
600.	7.097	34.573	7.039	27.074
801.	5.640	34.533	5.570	27.237
1002.	4.535	34.537	4.455	27.369

CAST GP7-97-KA-0211 LAT 02 16.0S LONG 169 57.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.710	34.216	29.710	21.239
10.	29.717	34.217	29.714	21.239
25.	29.735	34.233	29.728	21.247
40.	29.747	34.292	29.737	21.292
60.	29.182	34.298	29.167	21.483
100.	26.640	35.596	26.618	23.279
149.	17.753	35.433	17.727	25.663
200.	12.378	34.937	12.351	26.471
499.	9.228	34.690	9.172	26.848
1001.	4.498	34.546	4.418	27.384
2000.	2.186	34.644	2.047	27.682
3000.	1.679	34.673	1.459	27.751

CAST GP7-97-KA-0221 LAT 02 59.9S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	30.067	34.361	30.067	21.226
9.	30.064	34.360	30.062	21.227
26.	29.861	34.340	29.855	21.283
40.	29.477	34.344	29.468	21.417
60.	29.164	34.550	29.149	21.679
99.	27.409	35.510	27.386	22.983
150.	19.755	35.611	19.728	25.284
201.	12.429	34.951	12.402	26.473
399.	9.630	34.713	9.584	26.798
600.	7.224	34.595	7.166	27.076
799.	5.439	34.541	5.371	27.267
1002.	4.457	34.546	4.378	27.385

CAST GP7-97-KA-0231 LAT 03 59.7S LONG 169 59.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	30.173	34.821	30.172	21.536
10.	30.171	34.825	30.169	21.540
25.	30.149	34.824	30.142	21.548
40.	30.016	34.800	30.006	21.576
61.	29.894	34.926	29.879	21.713
100.	27.410	35.531	27.387	22.982
150.	22.683	36.007	22.652	24.788
200.	14.074	35.129	14.045	26.262
400.	9.247	34.688	9.203	26.730
600.	6.856	34.577	6.799	27.043
800.	5.422	34.540	5.354	27.270
1004.	4.474	34.547	4.394	27.383

CAST GP7-97-KA-0241 LAT 04 59.2S LONG 169 59.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	30.326	34.992	30.326	21.611
11.	30.183	34.986	30.181	21.656
25.	30.126	34.995	30.120	21.686
41.	30.011	35.046	30.001	21.761
61.	29.425	35.389	29.410	22.223
101.	27.042	35.804	27.019	23.318
150.	21.194	35.842	21.165	25.080
200.	13.862	35.089	13.833	26.288
400.	9.476	34.709	9.431	26.821
599.	7.185	34.575	7.127	27.067
800.	5.637	34.539	5.567	27.241
1004.	4.653	34.540	4.572	27.360

CAST GP7-97-KA-0251 LAT 05 59.9S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	30.740	34.966	30.740	21.460
12.	30.147	35.015	30.144	21.691
25.	30.068	35.015	30.061	21.719
40.	29.895	35.079	29.885	21.828
61.	29.369	35.337	29.354	22.181
99.	27.121	35.874	27.098	23.346
150.	22.644	36.085	22.614	24.868
201.	16.982	35.413	16.948	25.843
400.	9.629	34.719	9.583	26.804
600.	7.522	34.589	7.462	27.031
802.	5.774	34.539	5.703	27.226
1003.	4.666	34.542	4.584	27.359

CAST GP7-97-KA-0261 LAT 07 00.0S LONG 170 02.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.913	34.940	29.913	21.711
10.	29.966	35.018	29.964	21.737
25.	29.959	35.083	29.953	21.808
39.	29.938	35.143	29.928	21.855
59.	29.247	35.550	29.233	22.396
100.	27.380	35.980	27.357	23.347
150.	24.289	36.267	24.257	24.518
200.	18.659	35.610	18.623	25.583
399.	8.693	34.655	8.651	26.903
599.	6.618	34.558	6.562	27.122
801.	5.497	34.540	5.429	27.260
1000.	4.530	34.546	4.450	27.376

CAST GP7-97-KA-0271 LAT 07 58.6S LONG 170 01.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.743	35.037	29.743	21.841
11.	29.820	35.081	29.817	21.861
26.	29.911	35.185	29.905	21.900
40.	29.932	35.207	29.923	21.911
60.	29.370	35.435	29.355	22.281
100.	27.099	36.116	27.076	23.539
151.	23.138	36.132	23.107	24.764
200.	19.095	35.669	19.059	25.511
401.	8.962	34.669	8.918	26.874
601.	6.738	34.551	6.681	27.110
800.	5.397	34.523	5.329	27.258
1002.	4.307	34.534	4.229	27.392

CAST GP7-97-KA-0281 LAT 07 57.2S LONG 179 52.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.874	35.018	29.873	21.758
11.	29.748	34.992	29.745	21.793
25.	29.698	34.968	29.692	21.810
40.	29.688	34.970	29.678	21.816
61.	29.502	35.123	29.487	22.001
100.	27.469	35.862	27.445	23.222
150.	24.074	36.218	24.042	24.552
200.	19.384	35.713	19.348	25.474
401.	8.793	34.660	8.750	26.892
601.	6.510	34.544	6.454	27.133

CAST GP7-97-KA-0291 LAT 07 00.1S LONG 179 54.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	30.118	34.820	30.117	21.552
10.	30.129	34.819	30.127	21.551
25.	30.067	34.840	30.061	21.589
40.	30.180	35.415	30.170	21.998
59.	29.312	35.535	29.298	22.369
100.	27.579	35.798	27.555	23.142
150.	24.867	36.276	24.834	24.360
199.	20.592	35.833	20.555	25.236
401.	8.994	34.675	8.950	26.872
600.	6.558	34.544	6.503	27.128
801.	5.172	34.528	5.106	27.288
999.	4.256	34.547	4.178	27.407

CAST GP7-97-KA-0301 LAT 05 59.8S LONG 179 57.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	30.328	34.767	30.328	21.436
10.	30.223	34.781	30.221	21.532
25.	30.149	34.904	30.143	21.608
39.	29.927	35.178	29.917	21.884
60.	29.302	35.498	29.287	22.348
100.	27.005	36.056	26.982	23.511
149.	21.909	35.980	21.879	24.999
201.	18.145	35.518	18.110	25.638
401.	9.103	34.680	9.059	26.859
601.	6.701	34.544	6.645	27.108
800.	5.331	34.527	5.263	27.268
1002.	4.452	34.542	4.372	27.382

CAST GP7-97-KA-0311 LAT 04 59.5S LONG 179 57.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	30.250	34.696	30.250	21.439
10.	30.052	34.774	30.050	21.542
25.	30.207	34.928	30.201	21.610
41.	29.829	35.306	29.818	22.045
62.	29.045	35.561	29.030	22.483
100.	26.955	35.868	26.932	23.396
151.	21.017	35.893	20.988	25.169
200.	14.760	35.166	14.730	26.161
401.	9.366	34.696	9.321	26.830
600.	7.366	34.589	7.307	27.053
801.	5.557	34.525	5.488	27.241
1004.	4.414	34.540	4.334	27.385

CAST GP7-97-KA-0321 LAT 04 00.1S LONG 179 58.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.814	34.631	29.813	21.513
10.	29.817	34.628	29.814	21.513
24.	29.823	34.630	29.816	21.513
39.	29.749	34.645	29.740	21.549
59.	28.469	34.927	28.455	22.219
101.	26.913	35.654	26.889	23.253
150.	21.194	35.862	21.165	25.100
200.	13.996	35.104	13.967	26.268
400.	8.992	34.677	8.948	26.873
599.	7.067	34.579	7.010	27.086
800.	5.367	34.525	5.299	27.262
999.	4.498	34.544	4.419	27.378

CAST GP7-97-KA-0331 LAT 03 00.0S LONG 179 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.590	34.518	29.590	21.504
10.	29.591	34.518	29.589	21.506
26.	29.611	34.563	29.605	21.532
40.	29.336	35.232	29.326	22.136
61.	28.292	35.530	28.277	22.704
101.	26.384	35.675	26.361	23.436
151.	21.479	35.729	21.450	24.923
200.	14.066	35.119	14.037	26.273
401.	9.505	34.707	9.460	26.813
599.	7.228	34.583	7.170	27.066
801.	5.392	34.544	5.324	27.275
1004.	4.489	34.551	4.409	27.384

CAST GP7-97-KA-0341 LAT 01 59.4S LONG 179 55.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1003.	4.386	34.551	4.307	27.396
1003.	4.385	34.551	4.306	27.397
1002.	4.386	34.551	4.307	27.396
1002.	4.386	34.551	4.307	27.396
1003.	4.384	34.550	4.305	27.397
1004.	4.383	34.551	4.304	27.397
1005.	4.379	34.550	4.300	27.397
1004.	4.381	34.550	4.302	27.397
1002.	4.388	34.550	4.309	27.396
1004.	4.388	34.550	4.309	27.396
800.	5.598	34.546	5.529	27.253
1002.	4.370	34.552	4.291	27.398

CAST GP7-97-KA-0342 LAT 01 59.6S LONG 179 55.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.602	34.667	29.601	21.614
9.	29.591	34.664	29.589	21.617
25.	29.607	34.663	29.601	21.613
41.	29.653	34.712	29.643	21.643
59.	29.135	34.788	29.121	21.843
99.	26.463	35.615	26.441	23.354
150.	17.714	35.435	17.689	25.669
200.	12.304	34.894	12.278	26.455
500.	8.721	34.658	8.667	26.904
1499.	2.905	34.605	2.798	27.588
3001.	1.695	34.671	1.474	27.748
5008.	1.250	34.707	0.823	27.822

CAST GP7-97-KA-0351 LAT 01 29.9S LONG 179 53.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.494	34.378	29.493	21.430
11.	29.450	34.375	29.447	21.445
26.	29.374	34.372	29.368	21.473
41.	28.929	34.420	28.919	21.664
60.	28.206	34.727	28.191	22.154
101.	22.555	35.417	22.535	24.381
150.	17.119	35.359	17.094	25.747
200.	12.759	34.938	12.732	26.398
399.	9.945	34.732	9.899	26.761
599.	6.994	34.575	6.936	27.094
800.	5.456	34.544	5.388	27.269

CAST GP7-97-KA-0361 LAT 01 00.1S LONG 179 55.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.351	34.278	29.350	21.408
11.	29.353	34.279	29.351	21.409
25.	29.346	34.281	29.340	21.413
40.	29.333	34.282	29.323	21.421
61.	28.587	34.332	28.573	21.703
100.	21.497	35.343	21.477	24.628
150.	17.458	35.395	17.433	25.663
200.	12.923	34.943	12.895	26.365
402.	10.051	34.738	10.004	26.747
601.	6.957	34.577	6.899	27.100
800.	5.454	34.547	5.385	27.271

CAST GP7-97-KA-0371 LAT 00 30.2S LONG 179 57.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.356	34.255	29.355	21.389
10.	29.371	34.256	29.368	21.385
26.	29.372	34.256	29.365	21.386
42.	29.383	34.262	29.372	21.388
61.	29.340	34.338	29.325	21.460
100.	21.302	35.259	21.282	24.613
150.	18.324	35.411	18.298	25.511
202.	14.641	35.090	14.611	26.126
402.	9.988	34.731	9.941	26.752
601.	7.395	34.593	7.336	27.052
801.	5.478	34.548	5.410	27.269
1002.	4.502	34.557	4.422	27.388

CAST GP7-97-KA-0381 LAT 00 00.1S LONG 179 59.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.106	34.204	29.105	21.433
9.	29.100	34.203	29.098	21.435
24.	29.124	34.210	29.118	21.435
40.	29.141	34.221	29.132	21.440
59.	29.187	34.292	29.172	21.473
100.	20.385	35.167	20.366	24.822
147.	17.604	35.218	17.579	25.553
200.	14.028	34.964	13.999	26.166
500.	8.010	34.624	7.959	26.984
1000.	4.497	34.560	4.417	27.389
2000.	2.245	34.647	2.105	27.674
2999.	1.654	34.673	1.434	27.752

CAST GP7-97-KA-0391 LAT 00 59.9N LONG 179 48.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.969	34.158	28.969	21.437
10.	28.972	34.158	28.970	21.436
25.	28.951	34.148	28.945	21.448
39.	28.889	34.173	28.880	21.483
59.	28.631	34.344	28.617	21.705
100.	22.360	35.066	22.340	24.172
150.	16.035	34.976	16.011	25.671
200.	12.416	34.841	12.389	26.390
401.	9.823	34.707	9.777	26.761
599.	7.386	34.592	7.327	27.051
801.	5.396	34.548	5.328	27.278
1001.	4.347	34.567	4.269	27.407

CAST GP7-97-KA-0401 LAT 02 02.8N LONG 179 47.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	28.958	34.192	28.957	21.474
10.	28.947	34.192	28.944	21.479
25.	28.588	34.302	28.582	21.691
40.	27.305	34.506	27.296	22.256
61.	26.051	34.794	26.037	22.867
102.	21.906	35.160	21.886	24.387
149.	15.666	34.810	15.642	25.683
201.	12.517	34.836	12.490	26.367
500.	8.747	34.636	8.693	26.883
1001.	4.448	34.558	4.368	27.396
1999.	2.295	34.636	2.154	27.668

CAST GP7-97-KA-0411 LAT 02 59.9N LONG 179 49.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	29.333	34.264	29.332	21.402
10.	29.339	34.264	29.337	21.400
23.	29.186	34.259	29.181	21.450
40.	27.998	34.414	27.989	21.964
61.	25.222	34.965	25.208	23.260
101.	22.744	35.043	22.723	24.033
150.	13.989	34.690	13.967	25.959
201.	12.141	34.785	12.115	26.398
399.	9.916	34.679	9.869	26.723
800.	5.681	34.548	5.611	27.244
1004.	4.697	34.554	4.615	27.365

CAST GP7-97-KA-0421 LAT 03 59.9N LONG 179 51.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.072	34.110	29.072	21.374
10.	29.084	34.111	29.082	21.372
24.	28.955	34.143	28.949	21.450
40.	26.796	34.841	26.787	22.669
61.	24.068	35.038	24.055	23.680
99.	21.399	35.081	21.380	24.451
150.	14.753	34.678	14.730	25.779
200.	11.654	34.668	11.628	26.401
397.	8.959	34.651	8.916	26.860
598.	7.208	34.566	7.150	27.057
797.	5.804	34.546	5.734	27.228
1004.	4.753	34.553	4.671	27.358

CAST GP7-97-KA-0431 LAT 05 01.1N LONG 179 53.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.789	34.080	28.788	21.447
11.	28.793	34.081	28.790	21.446
26.	28.464	34.070	28.458	21.544
40.	26.671	34.332	26.662	22.330
61.	24.098	34.705	24.085	23.415
102.	20.443	35.032	20.424	24.669
149.	15.206	34.667	15.183	25.666
202.	11.299	34.560	11.274	26.374
400.	8.498	34.613	8.455	26.903
600.	7.163	34.567	7.105	27.065
802.	5.812	34.543	5.741	27.225
1003.	4.555	34.559	4.474	27.385

CAST GP7-97-KA-0441 LAT 06 00.4N LONG 179 51.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.911	34.100	28.911	21.420
10.	28.921	34.098	28.919	21.416
25.	28.347	34.174	28.341	21.667
41.	23.893	34.737	23.884	23.479
60.	22.252	34.826	22.240	24.017
102.	18.306	34.815	18.289	25.064
150.	12.729	34.575	12.709	26.121
201.	9.882	34.571	9.859	26.644
400.	8.291	34.601	8.249	26.924
602.	6.985	34.560	6.927	27.083
800.	5.462	34.544	5.394	27.267
1003.	4.432	34.561	4.353	27.400

CAST GP7-97-KA-0451 LAT 07 00.4N LONG 179 50.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.691	34.027	28.691	21.438
10.	28.696	34.026	28.694	21.437
25.	28.697	34.025	28.691	21.435
39.	25.956	34.469	25.947	22.642
60.	19.189	34.784	19.178	24.807
101.	14.766	34.604	14.751	25.720
149.	11.090	34.580	11.072	26.437
201.	10.163	34.645	10.140	26.654
400.	8.490	34.612	8.447	26.902
602.	6.894	34.558	6.837	27.093
800.	5.470	34.544	5.402	27.267
1000.	4.580	34.557	4.500	27.381

CAST GP7-97-KA-0461 LAT 08 00.0N LONG 179 55.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.151	34.206	28.151	21.750
15.	28.053	34.204	28.050	21.783
26.	28.029	34.206	28.023	21.789
39.	23.946	34.777	23.938	23.498
59.	20.354	34.811	20.343	24.528
102.	14.640	34.592	14.625	25.738
150.	11.822	34.551	11.803	26.277
200.	10.428	34.633	10.404	26.594
399.	8.781	34.624	8.738	26.867
601.	6.793	34.554	6.736	27.104
799.	5.290	34.542	5.223	27.286
1007.	4.355	34.559	4.276	27.407

CAST GP7-97-KA-0471 LAT 01 00.2S LONG 169 59.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.966	34.317	28.965	21.558
9.	28.963	34.317	28.961	21.559
25.	28.968	34.306	28.962	21.559
39.	28.970	34.306	28.961	21.560
59.	28.932	34.310	28.918	21.576
100.	28.826	34.314	28.802	21.615
150.	15.736	35.232	15.712	25.992
201.	12.715	34.918	12.688	26.394
399.	9.797	34.730	9.751	26.782
600.	7.234	34.582	7.176	27.066
799.	5.472	34.548	5.404	27.269
1002.	4.451	34.555	4.372	27.392

CAST GP7-97-KA-0481 LAT 00 00.7S LONG 170 01.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	28.847	34.221	28.845	21.533
25.	28.844	34.221	28.838	21.535
40.	28.846	34.221	28.836	21.536
61.	28.842	34.221	28.827	21.539
99.	20.281	35.230	20.262	24.894
150.	16.775	35.189	16.750	25.715
201.	13.161	34.962	13.133	26.335
399.	9.282	34.684	9.238	26.832
600.	7.201	34.586	7.143	27.073
800.	5.693	34.549	5.623	27.243
1005.	4.422	34.558	4.343	27.398

CAST GP7-97-KA-0491 LAT 00 29.9N LONG 169 57.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	29.084	34.264	29.083	21.485
11.	29.026	34.262	29.024	21.503
25.	28.918	34.258	28.912	21.539
40.	28.906	34.258	28.896	21.545
60.	28.881	34.256	28.866	21.552
100.	28.559	34.263	28.535	21.657
150.	17.025	35.149	17.001	25.639
198.	13.232	34.943	13.204	26.307
400.	9.438	34.687	9.393	26.808
601.	6.991	34.576	6.933	27.094
803.	5.399	34.546	5.331	27.278
1003.	4.494	34.555	4.414	27.389

CAST GP7-97-KA-0501 LAT 00 59.7N LONG 169 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.972	34.242	28.972	21.506
9.	28.976	34.242	28.974	21.505
26.	28.927	34.242	28.921	21.524
43.	28.877	34.244	28.866	21.544
61.	28.866	34.249	28.851	21.553
100.	28.612	34.317	28.588	21.654
151.	16.152	35.042	16.128	25.742
200.	12.844	34.895	12.816	26.349
401.	9.899	34.702	9.852	26.746
600.	7.176	34.584	7.117	27.075
801.	5.531	34.547	5.462	27.262
1003.	4.485	34.556	4.405	27.390

CAST GP7-97-KA-0511 LAT 01 29.7N LONG 169 56.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.899	34.247	28.899	21.535
10.	28.906	34.257	28.904	21.533
26.	28.903	34.244	28.896	21.534
41.	28.846	34.241	28.836	21.552
62.	28.810	34.247	28.795	21.567
99.	20.758	35.170	20.740	24.695
151.	16.489	34.821	16.465	25.502
202.	12.269	34.850	12.243	26.426
400.	9.904	34.705	9.857	26.748
601.	6.787	34.562	6.731	27.111
798.	5.486	34.544	5.417	27.266
1003.	4.605	34.553	4.524	27.375

CAST GP7-97-KA-0521 LAT 01 55.8N LONG 169 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.765	34.240	28.765	21.575
8.	28.768	34.240	28.766	21.574
24.	28.774	34.241	28.768	21.574
41.	28.603	34.241	28.593	21.633
59.	28.506	34.259	28.492	21.678
99.	23.038	35.099	23.018	24.004
147.	15.641	34.797	15.618	25.677
199.	11.808	34.836	11.782	26.505
499.	8.719	34.633	8.665	26.885
999.	4.511	34.556	4.432	27.387
2001.	2.241	34.640	2.101	27.674
3002.	1.644	34.673	1.424	27.754

CAST GP7-97-KA-0531 LAT 03 00.3N LONG 169 59.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.487	34.278	28.486	21.690
9.	28.479	34.285	28.477	21.693
26.	28.490	34.271	28.484	21.691
39.	28.483	34.271	28.474	21.694
57.	28.086	34.316	28.072	21.859
100.	23.845	35.166	23.824	23.821
150.	14.176	34.648	14.154	25.884
200.	11.675	34.737	11.650	26.460
400.	9.797	34.702	9.751	26.763
601.	7.429	34.586	7.369	27.042
799.	5.424	34.545	5.356	27.272
1003.	4.521	34.557	4.441	27.386

CAST GP7-97-KA-0541 LAT 04 00.2N LONG 169 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.323	34.212	28.322	21.699
10.	28.317	34.260	28.315	21.739
26.	28.306	34.277	28.300	21.754
41.	26.542	34.705	26.532	22.760
61.	24.358	34.996	24.345	23.574
101.	22.471	35.051	22.451	24.118
151.	16.600	34.731	16.576	25.403
201.	11.388	34.557	11.363	26.365
250.	10.040	34.587	10.011	26.629
301.	9.473	34.645	9.439	26.770
400.	8.472	34.616	8.429	26.909
501.	7.731	34.586	7.681	26.998

CAST GP7-97-KA-0551 LAT 05 00.4N LONG 169 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.089	34.535	28.088	22.019
10.	28.092	34.535	28.090	22.017
25.	25.816	34.886	25.810	23.040
40.	24.403	34.962	24.394	23.497
100.	20.809	35.004	20.790	24.543
155.	14.146	34.619	14.123	25.867
200.	10.945	34.612	10.921	26.491
400.	8.443	34.622	8.401	26.917
793.	5.601	34.546	5.532	27.252
1002.	4.518	34.556	4.438	27.387

CAST GP7-97-KA-0561 LAT 06 00.1N LONG 169 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.647	34.363	27.646	22.032
10.	27.658	34.362	27.655	22.028
24.	25.222	34.691	25.216	23.060
39.	23.082	34.895	23.074	23.831
59.	21.394	34.933	21.383	24.339
102.	16.916	34.726	16.899	25.322
150.	11.809	34.565	11.790	26.292
200.	10.078	34.637	10.055	26.659
250.	9.530	34.650	9.502	26.763
299.	9.152	34.645	9.120	26.822
399.	8.523	34.626	8.481	26.907
500.	7.935	34.603	7.884	26.982

CAST GP7-97-KA-0571 LAT 07 00.3N LONG 170 00.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.712	34.268	27.712	21.941
10.	27.706	34.268	27.704	21.942
24.	27.693	34.269	27.687	21.945
40.	23.022	34.797	23.014	23.772
61.	20.144	34.832	20.133	24.602
152.	10.631	34.602	10.613	26.536
200.	9.869	34.637	9.846	26.696
250.	9.398	34.639	9.370	26.776
303.	8.996	34.630	8.963	26.836
401.	8.394	34.611	8.352	26.917
501.	7.707	34.578	7.657	26.996

CAST GP7-97-KA-0581 LAT 07 50.5N LONG 170 01.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	27.014	34.278	27.013	22.172
10.	27.019	34.277	27.017	22.170
25.	26.999	34.280	26.993	22.177
40.	22.243	34.693	22.235	23.923
60.	17.668	34.583	17.658	25.035
100.	12.973	34.538	12.959	26.044
150.	10.910	34.658	10.892	26.529
200.	10.145	34.667	10.122	26.673
499.	7.667	34.580	7.617	27.001
1501.	2.891	34.607	2.784	27.590
3001.	1.676	34.673	1.455	27.751
5005.	1.293	34.704	0.865	27.816

CAST GP7-97-KA-0591 LAT 08 01.6N LONG 170 03.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
489.	7.934	34.595	7.884	26.971
489.	7.930	34.599	7.880	26.971
487.	7.939	34.591	7.889	26.970
487.	7.938	34.591	7.888	26.970
487.	7.938	34.591	7.888	26.970
488.	7.936	34.591	7.887	26.970
488.	7.929	34.591	7.880	26.971
490.	7.911	34.591	7.861	26.973
491.	7.908	34.590	7.858	26.974
494.	7.898	34.589	7.847	26.975
494.	7.890	34.589	7.840	26.975
496.	7.877	34.588	7.827	26.976