

NOAA Data Report ERL PMEL-46

**CTD/O₂ MEASUREMENTS DURING 1987 AND 1988 AS PART OF THE
EQUATORIAL PACIFIC OCEAN CLIMATE STUDIES (EPOCS)**

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**UNITED STATES
DEPARTMENT OF COMMERCE**

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CTD/O₂ Measurements During 1987 and 1988 as Part of the Equatorial Pacific Ocean Climate Studies (EPOCS)

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ABSTRACT: During 1987 and 1988, CTD/O₂ data were collected in the eastern equatorial Pacific as part of the Equatorial Pacific Ocean Climate Studies (EPOCS) program. Summaries of Neil Brown Instrument System CTD/O₂ measurements and hydrographic data acquired on six cruises during 1987 and 1988 are presented. Section plots of oceanographic variables along the equator, 110°W, 140°W, 7°N, and 132°W are given. Station location, meteorological conditions, abbreviated CTD data listings, profiles, and potential temperature-salinity diagrams are shown for each cast. Hydrographic data are listed for each cruise.

1. INTRODUCTION

Oceanographic observations in the eastern equatorial Pacific have been collected since 1979 as part of NOAA's Equatorial Pacific Ocean Climate Studies (EPOCS) program. An objective of the EPOCS program is to investigate the processes which cause sea surface temperature (SST) fluctuations on annual and interannual time scales in this area. Summaries of Neil Brown Instrument System CTD/O₂ measurements and hydrographic data collected on six cruises during 1987 and 1988 as part of PMEL's EPOCS contribution are presented here. CTD/O₂ data from 1979 through 1986 can be found in previous data reports (Mangum *et al.*, 1980; Mangum and Hayes, 1983; Mangum and Hayes, 1985; Mangum *et al.*, 1987; and Lynch *et al.*, 1988).

Data collected in 1987 and 1988 included both meridional sections across the equator along 110°W, 140°W, and 132°W and zonal sections along the equator eastward of 170°W and along 7°N eastward of 147.5°W. Figures 1a–1f show the cruise tracks and CTD station locations for each cruise. Cruise name notation is EPx-yy-zz, where x is the sequential EPOCS cruise number during each year, yy is the year (87 or 88), and zz is the ship code (either RS for the NOAA ship *Researcher* or OC for the NOAA ship *Oceanographer*).

Neil Brown Instrument Systems (NBIS) Mark III CTDs were used to acquire the data. Beckman dissolved oxygen probes were installed through the summer of 1988. Pressure, temperature, conductivity, and dissolved oxygen were sampled at a rate of 30 Hz, as described by Brown (1974). Data collected were recorded on a Digital 11/23 computer system. Typical lowering rates were 45 m/min for the first 200 meters after which the speed was increased to 60 m/min. CTD/O₂ data were recorded on the downcast and water samples were collected on the upcast for calibration purposes using an electronically fired rosette sampler.

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2. NBIS CTD DATA PROCESSING

The NBIS CTD acquisition, processing, and calibration procedures for EP1-87-OC are described in Mangum *et al.* (1980). Briefly, the digitized signal from the CTD deck unit was recorded in real time on a 9-track magnetic tape using the Digital 11/23 computer system. Backup audio recordings were also collected for each cast which could be used to replay the cast in the event of problems with the original 9-track tape. The data were edited and averaged for a value to exist every whole decibar after corrections for response time differences between temperature and conductivity sensors had been made. Information from pre-cruise and post-cruise (if available) laboratory calibrations were compared with bottle calibration information and historical data to determine corrections to pressure, temperature, and conductivity. Dissolved oxygen samples were titrated by scientific personnel and these were used to determine the oxygen calibration for each cruise.

Similar acquisition procedures were employed for cruises after summer 1987. However, updated processing and calibration procedures were introduced for these latter cruises as described in Mangum *et al.* (1991). These included calculation of fall rate which was used to eliminate anomalous excursions in the raw temperature and conductivity data associated with reversals in the direction of movement of the CTD package, as well as when the package decelerated due to ship roll. Fall rates were computed between data scans approximately 2 seconds apart and were carried along with the original unprocessed data. During the 1-decibar averaging program, scans with fall rates below a user-specified minimum were removed. Also, any following scans were omitted until a user-specified pressure interval had been skipped to prevent contaminated water from being included in the measurements. Final calibrations for the conductivity and oxygen sensors were determined from comparison with bottle data and were applied to the 1-decibar averaged data.

3. DATA PRESENTATION

Potential temperature, sigma-T, and sigma-theta were calculated using the 1980 equation of state algorithms described by Fofonoff and Millard (1983). Dynamic height in dynamic meters was calculated by integrating from the sea surface. When the uppermost pressure was not equal to 0 db, surface values of temperature and salinity were filled with the values associated with the shallowest pressure for which values did exist (provided this pressure was less than 10 db).

Final data are in PMEL's Equatorial Pacific Information Collection (EPIC) format (Soreide and Hayes, 1988). The majority of the plots which follow were produced using Plot Plus Scientific Graphics System (Denbo, 1992). Tables 2-6 define the abbreviations and units used in the CTD/O₂ data summary listings. Hydrographic bottle data at discrete depths are listed for each cruise.

4. ACKNOWLEDGMENTS

The assistance of the officers and crew of the NOAA ships *Researcher* and *Oceanographer* is gratefully acknowledged. Electronics support was provided by M. Stapp. M. McCarty and C. Coho were responsible for the acquisition and processing at sea for EP1-87-RS; D. Paul assisted with CTD operations during EP2-88-OC. Salinity analyses were completed by each ship's survey department. Oxygen titrations were completed by N. Nelson during EP2-87-OC, M. Meenan during EP1-88-OC and EP2-88-OC, and by ship's survey department for those cruises aboard the *Researcher*. This research was supported in part by the EPOCS Project of NOAA.

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FIGURES AND TABLES

EP1-87-RS CRUISE TRACK
April 20 - May 17, 1987
Panama - Honolulu, HI

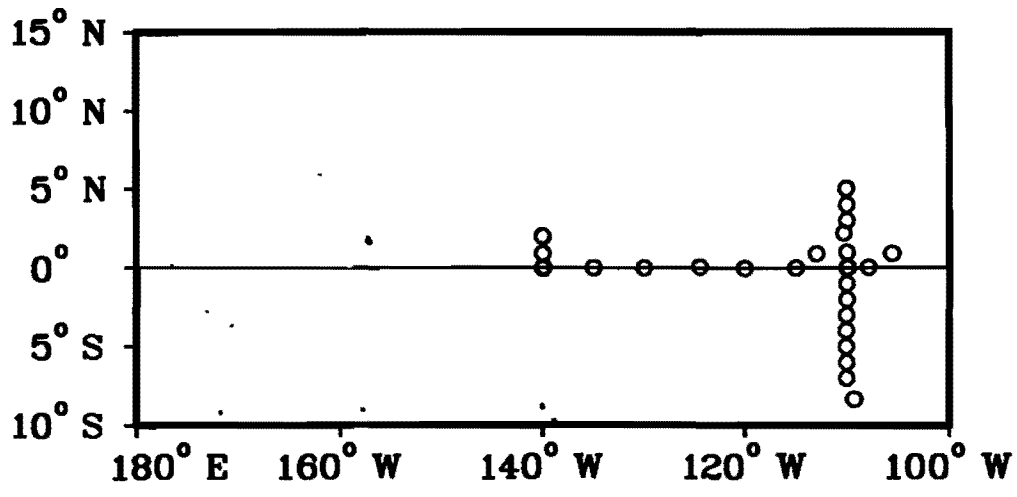
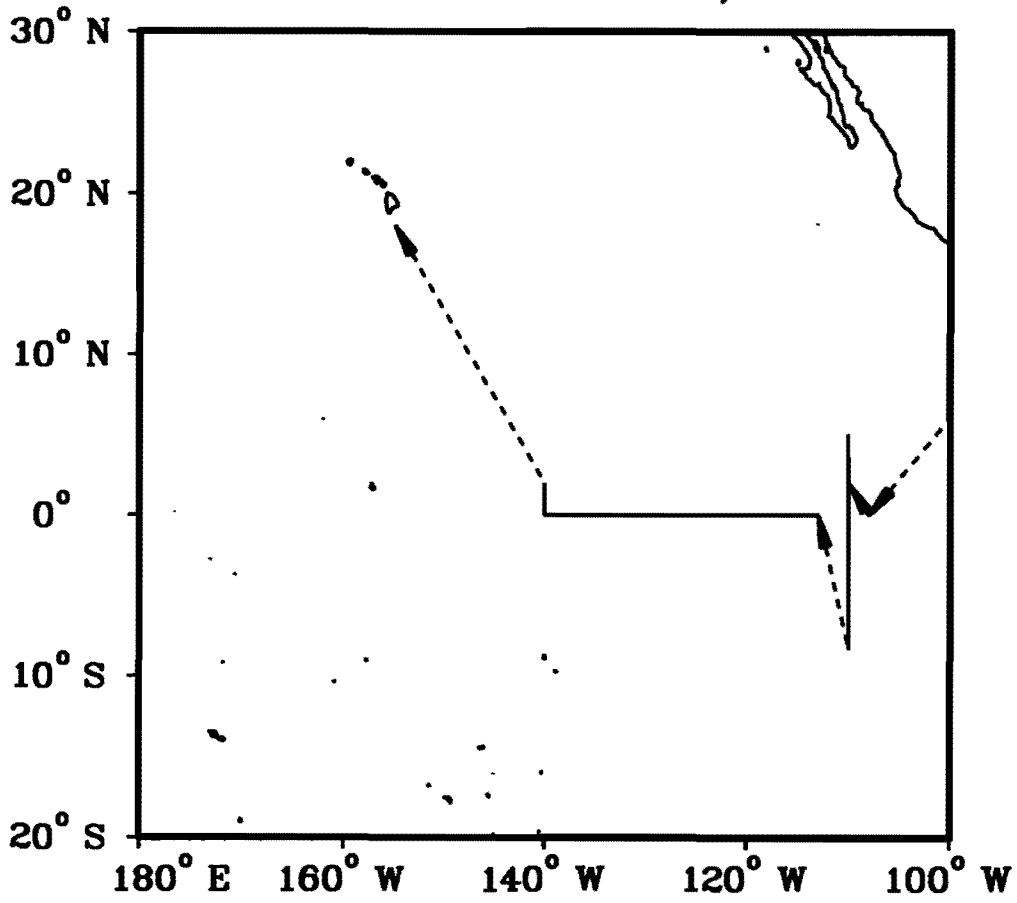


Fig. 1a. EP1-87-RS cruise track and station locations.

TABLE 1a. EP1-87 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 1 | 0 54.5N | 105 34.5W | 25 APR 87 | 2033 | 267 | 8 | 3521 | 152 |
| 2 | 0 54.4N | 105 34.1W | 25 APR 87 | 33 | 350 | 2 | 3584 | 3447 |
| 3 | 0 1.7N | 107 52.0W | 26 APR 87 | 2038 | 215 | 9 | 3724 | 1021 |
| 4 | 2 12.8N | 110 18.1W | 27 APR 87 | 1634 | 185 | 5 | 3789 | 1059 |
| 5 | 3 0.7N | 109 59.6W | 27 APR 87 | 2154 | 220 | 14 | 3802 | 997 |
| 6 | 4 0.1N | 110 0.1W | 28 APR 87 | 338 | 230 | 10 | 3895 | 1011 |
| 7 | 5 0.6N | 110 3.8W | 28 APR 87 | 1013 | 180 | 14 | 3959 | 3793 |
| 8 | 5 2.5N | 110 1.5W | 28 APR 87 | 1913 | 0 | 0 | 3925 | 149 |
| 9 | 0 59.7N | 109 59.3W | 30 APR 87 | 226 | 80 | 6 | 3769 | 1010 |
| 10 | 0 0.7N | 109 59.3W | 30 APR 87 | 939 | 85 | 8 | 3724 | 3717 |
| 11 | 0 1.0N | 109 52.9W | 1 MAY 87 | 213 | 0 | 0 | 3742 | 158 |
| 12 | 0 59.9S | 110 0.2W | 1 MAY 87 | 835 | 95 | 7 | 3970 | 1002 |
| 13 | 1 59.9S | 109 59.6W | 1 MAY 87 | 1428 | 155 | 3 | 3916 | 1010 |
| 14 | 2 59.9S | 109 59.7W | 1 MAY 87 | 2043 | 140 | 13 | 3811 | 1019 |
| 15 | 3 59.5S | 110 1.6W | 2 MAY 87 | 251 | 125 | 12 | 3688 | 1008 |
| 16 | 5 0.6S | 110 1.6W | 2 MAY 87 | 900 | 140 | 15 | 3620 | 1007 |
| 17 | 5 59.8S | 110 0.4W | 2 MAY 87 | 2224 | 118 | 13 | 3414 | 1008 |
| 18 | 6 59.8S | 110 0.4W | 3 MAY 87 | 413 | 100 | 14 | 3523 | 1007 |
| 19 | 8 20.2S | 109 17.0W | 3 MAY 87 | 1324 | 110 | 18 | 3223 | 3109 |
| 20 | 8 20.1S | 109 17.1W | 3 MAY 87 | 1607 | 110 | 15 | 3274 | 156 |
| 21 | 0 54.0N | 112 57.6W | 5 MAY 87 | 1449 | 100 | 10 | 3922 | 3789 |
| 22 | 0 0.1N | 114 59.5W | 6 MAY 87 | 224 | 105 | 12 | 4051 | 1006 |
| 23 | 0 1.0S | 120 0.9W | 7 MAY 87 | 123 | 80 | 13 | 4195 | 1007 |
| 24 | 0 4.2N | 124 26.3W | 8 MAY 87 | 1135 | 115 | 11 | 2520 | 1007 |
| 25 | 0 0.2S | 129 58.8W | 9 MAY 87 | 1551 | 110 | 12 | 4459 | 996 |
| 26 | 0 0.7N | 135 0.0W | 10 MAY 87 | 1716 | 60 | 8 | 4350 | 1003 |
| 27 | 0 2.4S | 139 59.4W | 12 MAY 87 | 20 | 75 | 10 | 4322 | 199 |
| 28 | 0 2.8N | 139 54.8W | 12 MAY 87 | 908 | 100 | 8 | 4361 | 1010 |
| 29 | 0 54.7N | 139 59.3W | 12 MAY 87 | 1454 | 10 | 8 | 4304 | 1008 |
| 30 | 1 59.0N | 139 58.4W | 12 MAY 87 | 2324 | 140 | 4 | 4374 | 195 |
| 31 | 2 1.6N | 140 0.7W | 13 MAY 87 | 850 | 0 | 0 | 4392 | 4122 |

EP2-87-OC CRUISE TRACK
October 6 – November 4, 1987
Honolulu, HI – Manzanillo, Mexico

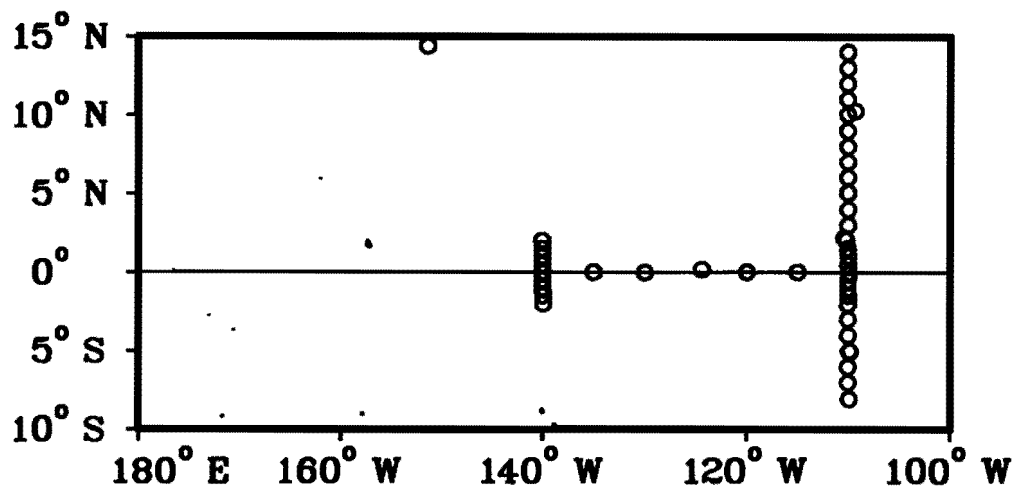
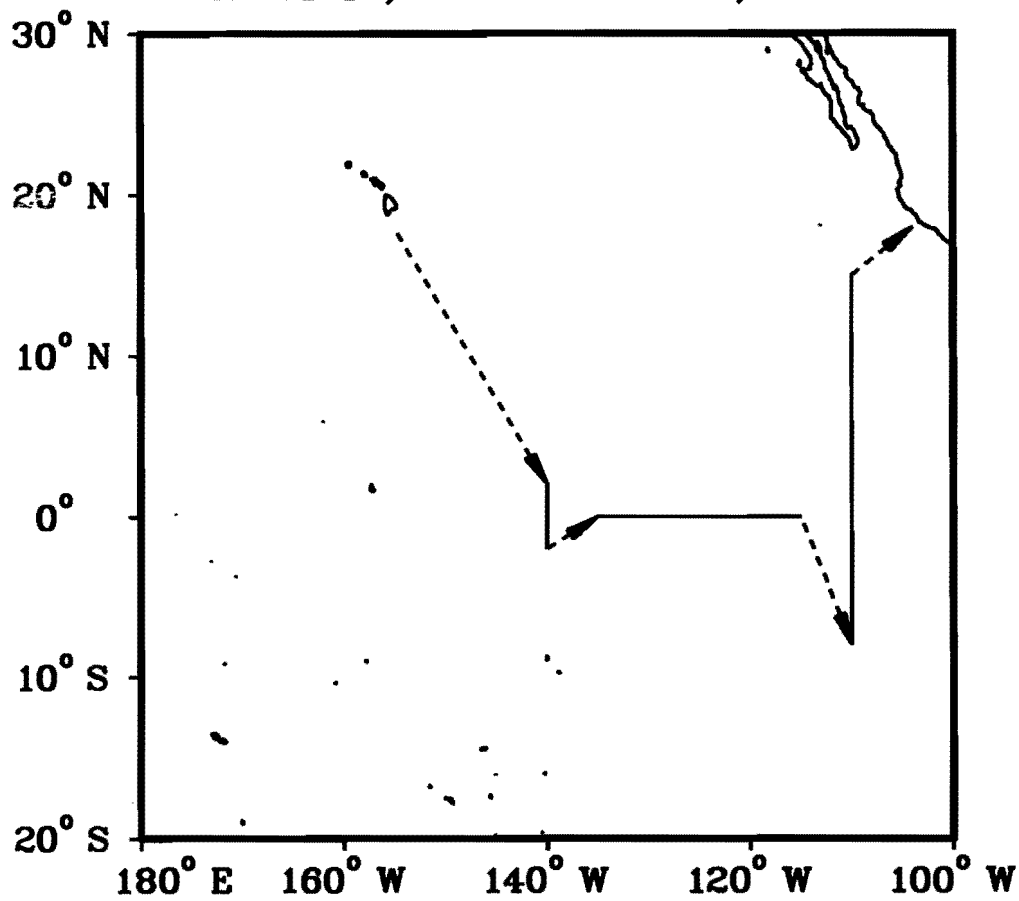


Fig. 1b. EP2-87-OC cruise track and station locations.

TABLE 1b. EP2-87 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 0 | 14 22.4N | 151 19.1W | 8 OCT 87 | 2315 | 65 | 12 | 5469 | 509 |
| 1 | 2 1.1N | 140 2.5W | 11 OCT 87 | 2207 | 130 | 14 | 4475 | 251 |
| 2 | 2 0.2N | 140 4.1W | 12 OCT 87 | 353 | 140 | 20 | 4352 | 4397 |
| 3 | 1 30.0N | 140 0.5W | 12 OCT 87 | 913 | 130 | 14 | 4469 | 1011 |
| 4 | 0 59.6N | 140 0.6W | 12 OCT 87 | 1303 | 115 | 18 | 4383 | 1008 |
| 5 | 0 29.6N | 140 0.7W | 12 OCT 87 | 1715 | 140 | 22 | 4352 | 1036 |
| 6 | 0 0.3N | 139 58.7W | 13 OCT 87 | 14 | 120 | 16 | 4383 | 205 |
| 7 | 0 0.5N | 139 58.7W | 13 OCT 87 | 50 | 120 | 16 | 4383 | 206 |
| 8 | 0 1.1N | 139 56.3W | 13 OCT 87 | 105 | 120 | 14 | 4383 | 255 |
| 9 | 0 0.5N | 140 1.4W | 13 OCT 87 | 1053 | 125 | 18 | 4313 | 4336 |
| 10 | 0 2.1S | 139 57.6W | 14 OCT 87 | 350 | 105 | 14 | 4322 | 306 |
| 11 | 0 29.4S | 140 0.1W | 14 OCT 87 | 713 | 85 | 11 | 4291 | 1011 |
| 12 | 1 0.2S | 139 59.5W | 14 OCT 87 | 1115 | 190 | 10 | 4272 | 1011 |
| 13 | 1 30.0S | 139 59.5W | 14 OCT 87 | 1516 | 100 | 8 | 4322 | 1012 |
| 14 | 2 0.1S | 139 58.2W | 15 OCT 87 | 733 | 50 | 14 | 4299 | 4350 |
| 15 | 2 0.2S | 139 57.1W | 15 OCT 87 | 1024 | 50 | 12 | 4334 | 249 |
| 16 | 0 0.3S | 135 2.0W | 16 OCT 87 | 1135 | 95 | 14 | 4368 | 4387 |
| 17 | 0 0.5N | 134 58.3W | 16 OCT 87 | 1407 | 100 | 12 | 4368 | 205 |
| 18 | 0 0.7S | 129 59.1W | 17 OCT 87 | 1348 | 110 | 14 | 4437 | 4500 |
| 19 | 0 1.6S | 129 59.3W | 17 OCT 87 | 1625 | 105 | 12 | 4437 | 205 |
| 20 | 0 10.0N | 124 22.6W | 19 OCT 87 | 1421 | 100 | 16 | 4576 | 4620 |
| 21 | 0 9.8N | 124 21.7W | 19 OCT 87 | 1702 | 90 | 14 | 4576 | 205 |
| 22 | 0 0.8S | 119 59.5W | 20 OCT 87 | 1350 | 130 | 12 | 4175 | 4210 |
| 23 | 0 0.9N | 119 59.0W | 20 OCT 87 | 1603 | 130 | 10 | 4175 | 206 |
| 24 | 0 0.5N | 114 59.6W | 21 OCT 87 | 1433 | 100 | 16 | 3955 | 203 |
| 25 | 0 0.7N | 114 58.2W | 21 OCT 87 | 1653 | 110 | 17 | 3986 | 4050 |
| 26 | 8 2.7S | 109 54.4W | 23 OCT 87 | 1126 | 110 | 16 | 3464 | 1008 |
| 27 | 7 0.1S | 110 0.5W | 23 OCT 87 | 2345 | 125 | 17 | 3470 | 1009 |
| 28 | 6 0.6S | 110 1.5W | 24 OCT 87 | 607 | 110 | 17 | 3409 | 1009 |
| 29 | 5 0.1S | 109 54.3W | 24 OCT 87 | 1219 | 100 | 18 | 3409 | 204 |
| 30 | 5 2.5S | 109 47.7W | 25 OCT 87 | 641 | 100 | 16 | 3496 | 3481 |
| 31 | 4 0.5S | 110 0.2W | 25 OCT 87 | 1418 | 110 | 14 | 3652 | 1008 |
| 32 | 2 59.7S | 110 0.2W | 25 OCT 87 | 2054 | 125 | 12 | 3767 | 1011 |
| 33 | 2 1.0S | 110 0.4W | 26 OCT 87 | 442 | 100 | 14 | 3955 | 252 |
| 34 | 2 4.3S | 110 2.1W | 26 OCT 87 | 723 | 110 | 13 | 3928 | 3941 |
| 35 | 1 29.9S | 110 0.2W | 27 OCT 87 | 613 | 115 | 12 | 3876 | 1007 |
| 36 | 0 59.9S | 110 0.0W | 27 OCT 87 | 952 | 130 | 8 | 3961 | 1010 |
| 37 | 0 30.1S | 109 59.9W | 27 OCT 87 | 1410 | 135 | 10 | 3530 | 1007 |
| 38 | 0 3.6S | 109 51.9W | 28 OCT 87 | 908 | 190 | 4 | 3773 | 3781 |
| 39 | 0 0.3S | 109 52.0W | 28 OCT 87 | 1146 | 130 | 6 | 3722 | 255 |
| 40 | 0 29.3N | 109 59.7W | 28 OCT 87 | 2315 | 120 | 10 | 3780 | 1009 |
| 41 | 1 0.8N | 109 57.2W | 29 OCT 87 | 259 | 120 | 14 | 3773 | 1007 |
| 42 | 1 31.3N | 110 1.1W | 29 OCT 87 | 640 | 120 | 12 | 3797 | 1009 |
| 43 | 2 11.9N | 110 21.9W | 29 OCT 87 | 1140 | 140 | 12 | 3985 | 1009 |
| 44 | 2 3.6N | 110 10.7W | 30 OCT 87 | 201 | 120 | 12 | 3793 | 510 |
| 45 | 2 59.8N | 109 59.5W | 30 OCT 87 | 826 | 160 | 10 | 3895 | 1008 |
| 46 | 3 59.4N | 109 59.2W | 30 OCT 87 | 1417 | 145 | 13 | 3895 | 1008 |
| 47 | 5 2.3N | 110 1.0W | 31 OCT 87 | 12 | 150 | 8 | 3886 | 3800 |
| 48 | 5 1.7N | 109 57.8W | 31 OCT 87 | 233 | 154 | 4 | 3886 | 199 |
| 49 | 6 0.3N | 109 59.9W | 31 OCT 87 | 744 | 150 | 4 | 3682 | 1012 |
| 50 | 7 0.2N | 109 59.4W | 31 OCT 87 | 116 | 125 | 10 | 3724 | 1010 |
| 51 | 7 59.8N | 109 59.9W | 31 OCT 87 | 1839 | 85 | 12 | 3621 | 1007 |
| 52 | 9 0.1N | 110 0.8W | 1 NOV 87 | 4 | 70 | 14 | 3895 | 1009 |
| 53 | 10 2.5N | 110 0.9W | 1 NOV 87 | 631 | 60 | 10 | 3349 | 642 |
| 54 | 10 15.3N | 109 15.0W | 1 NOV 87 | 1151 | 85 | 10 | 823 | 810 |
| 55 | 11 0.0N | 110 0.5W | 2 NOV 87 | 408 | 95 | 17 | 3591 | 1010 |
| 56 | 12 0.7N | 110 1.8W | 2 NOV 87 | 956 | 160 | 10 | 2861 | 1010 |
| 57 | 12 59.8N | 109 59.9W | 2 NOV 87 | 1607 | 95 | 14 | 3183 | 1010 |
| 58 | 14 0.2N | 110 0.3W | 2 NOV 87 | 2204 | 65 | 12 | 3288 | 1010 |
| 59 | 15 0.5N | 109 59.4W | 3 NOV 87 | 341 | 80 | 10 | 3712 | 204 |
| 60 | 15 2.2N | 109 58.9W | 3 NOV 87 | 558 | 95 | 8 | 3308 | 3347 |

EP1-88-OC CRUISE TRACK
May 9 - June 4, 1988
Pago Pago, Samoa - Honolulu, HI

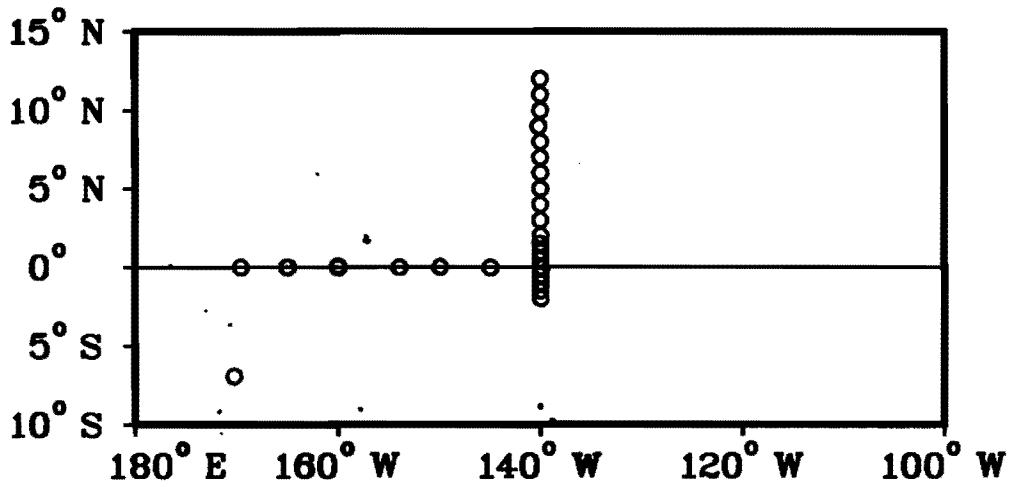
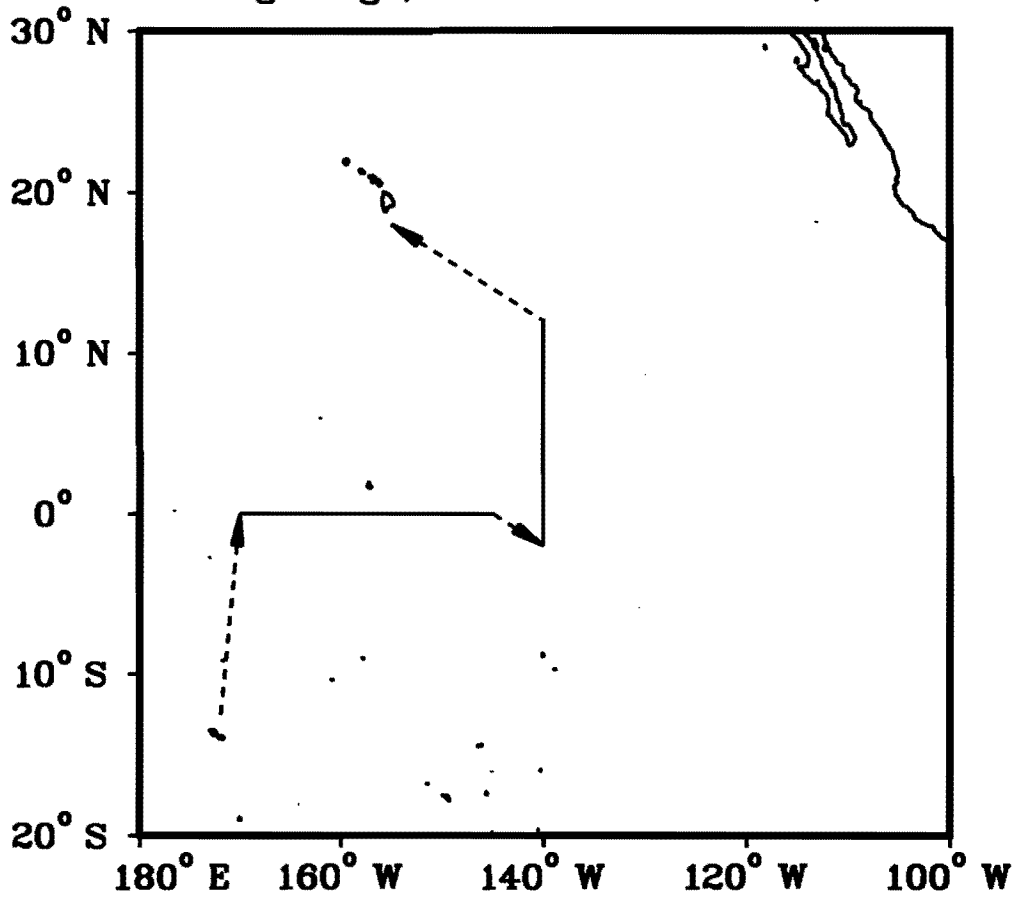


Fig. 1c. EP1-88-OC cruise track and station locations.

TABLE 1c. EP1-88 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 0 | 6 56.5S | 170 14.0W | 12 MAY 88 | 303 | 55 | 8 | 0 | 207 |
| 1 | 0 0.1S | 169 35.2W | 13 MAY 88 | 855 | 105 | 18 | 5372 | 301 |
| 2 | 0 0.6S | 169 33.1W | 13 MAY 88 | 1248 | 105 | 20 | 5372 | 5472 |
| 3 | 0 0.2N | 164 59.8W | 16 MAY 88 | 1259 | 90 | 13 | 5791 | 301 |
| 4 | 0 0.6S | 164 54.1W | 16 MAY 88 | 1620 | 90 | 14 | 5788 | 5836 |
| 5 | 0 4.1N | 160 1.2W | 18 MAY 88 | 152 | 95 | 21 | 5106 | 5148 |
| 6 | 0 0.9S | 159 59.9W | 18 MAY 88 | 429 | 105 | 17 | 5161 | 305 |
| 7 | 0 0.0N | 153 58.8W | 19 MAY 88 | 752 | 85 | 19 | 4778 | 4850 |
| 8 | 0 0.1S | 153 57.2W | 19 MAY 88 | 1026 | 80 | 18 | 4786 | 301 |
| 9 | 0 0.7N | 149 58.7W | 20 MAY 88 | 1009 | 70 | 10 | 4444 | 4498 |
| 10 | 0 1.3N | 149 58.1W | 20 MAY 88 | 1253 | 80 | 13 | 4457 | 303 |
| 11 | 0 0.6S | 144 58.2W | 21 MAY 88 | 1101 | 95 | 16 | 4230 | 4294 |
| 12 | 0 1.3S | 144 56.2W | 21 MAY 88 | 1404 | 85 | 18 | 4285 | 303 |
| 13 | 1 59.3S | 139 57.3W | 22 MAY 88 | 1204 | 60 | 20 | 4322 | 4287 |
| 14 | 1 58.7S | 139 56.4W | 22 MAY 88 | 1446 | 50 | 17 | 4322 | 301 |
| 15 | 1 30.3S | 139 59.0W | 22 MAY 88 | 2314 | 70 | 18 | 4322 | 1003 |
| 16 | 1 0.2S | 139 59.6W | 23 MAY 88 | 315 | 70 | 15 | 4267 | 1002 |
| 17 | 0 29.9S | 139 59.1W | 23 MAY 88 | 703 | 75 | 20 | 4291 | 1005 |
| 18 | 0 2.0S | 139 54.3W | 23 MAY 88 | 1034 | 90 | 16 | 4346 | 254 |
| 19 | 0 2.8S | 139 53.6W | 23 MAY 88 | 1232 | 95 | 16 | 4334 | 4265 |
| 20 | 0 0.3S | 139 57.2W | 23 MAY 88 | 1528 | 95 | 14 | 4334 | 300 |
| 21 | 0 29.9N | 140 0.3W | 24 MAY 88 | 1736 | 130 | 11 | 4388 | 1008 |
| 22 | 0 58.5N | 139 59.5W | 25 MAY 88 | 205 | 90 | 7 | 4389 | 1010 |
| 23 | 1 29.6N | 140 0.3W | 25 MAY 88 | 536 | 90 | 11 | 4475 | 1004 |
| 24 | 2 1.1N | 139 58.6W | 25 MAY 88 | 1040 | 100 | 12 | 4377 | 4443 |
| 25 | 2 1.0N | 139 58.5W | 25 MAY 88 | 1327 | 120 | 14 | 4371 | 301 |
| 26 | 2 59.2N | 140 0.5W | 26 MAY 88 | 1506 | 135 | 15 | 4303 | 1017 |
| 27 | 3 59.6N | 140 0.2W | 26 MAY 88 | 2106 | 135 | 12 | 4356 | 1013 |
| 28 | 5 0.1N | 140 0.5W | 27 MAY 88 | 1113 | 130 | 8 | 4444 | 301 |
| 29 | 4 59.0N | 139 59.8W | 27 MAY 88 | 1418 | 145 | 8 | 4450 | 4497 |
| 30 | 5 59.8N | 139 59.2W | 27 MAY 88 | 2147 | 180 | 4 | 4813 | 1001 |
| 31 | 6 58.7N | 140 0.1W | 28 MAY 88 | 1201 | 10 | 2 | 4998 | 300 |
| 32 | 6 58.7N | 140 0.9W | 28 MAY 88 | 1508 | 70 | 1 | 4991 | 5043 |
| 33 | 8 0.0N | 140 0.3W | 28 MAY 88 | 2149 | 190 | 10 | 5183 | 1002 |
| 34 | 8 59.0N | 140 10.0W | 30 MAY 88 | 853 | 30 | 18 | 5109 | 302 |
| 35 | 8 59.9N | 140 8.7W | 30 MAY 88 | 1203 | 20 | 20 | 5140 | 5141 |
| 36 | 10 0.1N | 140 0.0W | 31 MAY 88 | 618 | 35 | 17 | 4905 | 1008 |
| 37 | 11 0.2N | 140 0.3W | 31 MAY 88 | 1129 | 35 | 18 | 4813 | 1001 |
| 38 | 12 0.2N | 140 0.5W | 21 MAY 88 | 1646 | 50 | 19 | 4955 | 1005 |

EP2-88-OC CRUISE TRACK
June 17 - July 9, 1988
Honolulu, HI - Manzanillo, Mexico

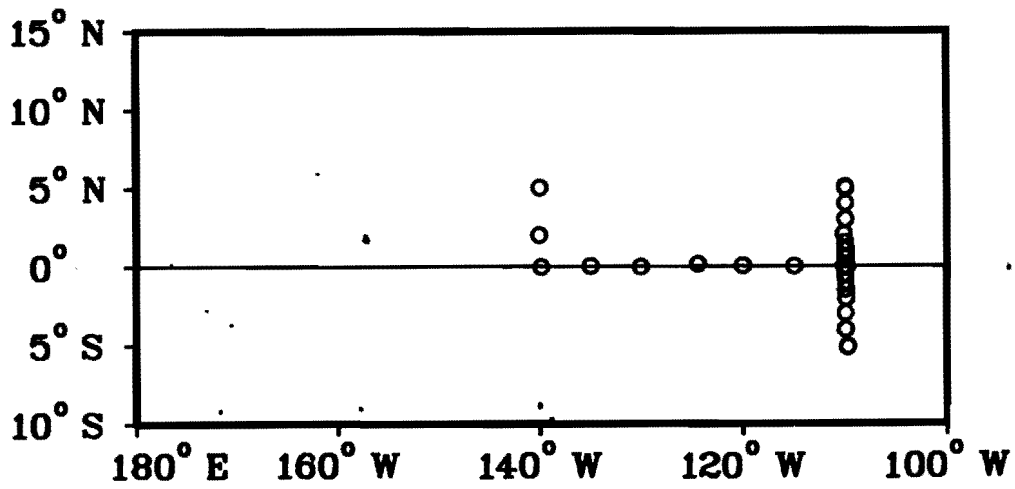
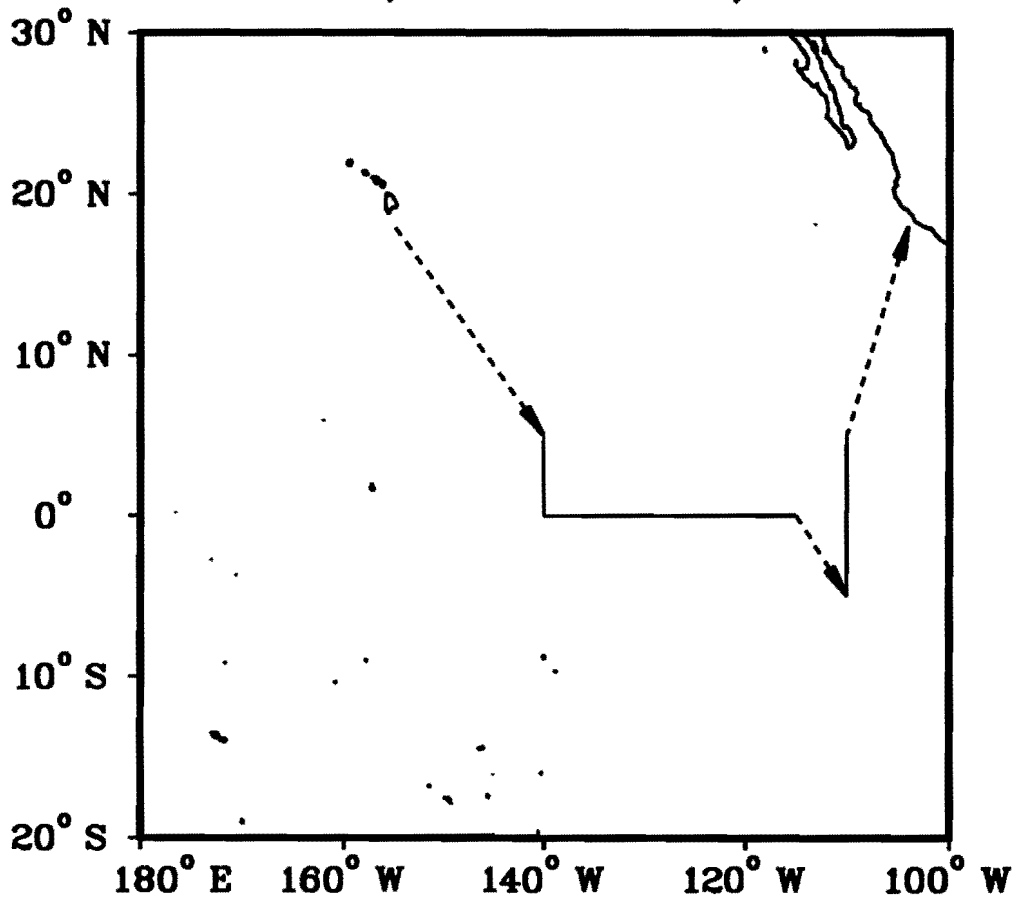


Fig. 1d. EP2-88-OC cruise track and station locations.

TABLE 1d. EP2-88 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 1 | 5 1.4N | 139 59.4W | 21 JUN 88 | 2013 | 155 | 16 | 4450 | 1005 |
| 2 | 2 0.8N | 140 1.8W | 22 JUN 88 | 930 | 105 | 10 | 4383 | 1005 |
| 3 | 0 1.6S | 139 50.5W | 22 JUN 88 | 2118 | 95 | 11 | 4346 | 4403 |
| 4 | 0 1.5S | 139 49.2W | 22 JUN 88 | 2346 | 80 | 15 | 4322 | 301 |
| 5 | 0 1.5N | 134 58.2W | 23 JUN 88 | 2050 | 95 | 9 | 4380 | 4388 |
| 6 | 0 1.8N | 134 58.8W | 23 JUN 88 | 2258 | 90 | 8 | 4380 | 302 |
| 7 | 0 1.5S | 129 59.7W | 24 JUN 88 | 2048 | 110 | 15 | 4493 | 4509 |
| 8 | 0 1.9S | 130 1.6W | 24 JUN 88 | 2311 | 110 | 14 | 4527 | 300 |
| 9 | 0 9.1N | 124 24.9W | 26 JUN 88 | 120 | 100 | 12 | 4567 | 1944 |
| 10 | 0 9.1N | 124 22.7W | 26 JUN 88 | 341 | 85 | 10 | 4610 | 4664 |
| 11 | 0 8.7N | 124 22.3W | 26 JUN 88 | 609 | 85 | 8 | 4616 | 304 |
| 12 | 0 1.4N | 119 59.8W | 27 JUN 88 | 505 | 0 | 0 | 4179 | 205 |
| 13 | 0 1.4N | 119 59.8W | 27 JUN 88 | 741 | 120 | 15 | 4193 | 4248 |
| 14 | 0 2.4N | 119 59.7W | 27 JUN 88 | 952 | 120 | 12 | 4181 | 303 |
| 15 | 0 0.3S | 114 59.8W | 28 JUN 88 | 707 | 130 | 6 | 4028 | 4072 |
| 16 | 0 0.1N | 114 58.7W | 28 JUN 88 | 1002 | 100 | 4 | 4047 | 301 |
| 17 | 5 4.3S | 109 47.2W | 28 JUN 88 | 1455 | 115 | 12 | 3470 | 3548 |
| 18 | 5 8.4S | 109 49.1W | 29 JUN 88 | 1855 | 111 | 10 | 3470 | 307 |
| 19 | 4 0.3S | 109 59.5W | 30 JUN 88 | 235 | 120 | 13 | 3621 | 1003 |
| 20 | 2 59.3S | 110 0.3W | 30 JUN 88 | 833 | 115 | 9 | 3793 | 1002 |
| 21 | 2 2.8S | 109 56.6W | 30 JUN 88 | 1403 | 80 | 10 | 3967 | 306 |
| 22 | 2 2.7S | 109 57.5W | 30 JUN 88 | 1937 | 100 | 7 | 3927 | 3990 |
| 23 | 1 29.9S | 109 59.9W | 1 JUL 88 | 117 | 115 | 10 | 3895 | 1000 |
| 24 | 1 0.1S | 109 59.6W | 1 JUL 88 | 501 | 115 | 7 | 3992 | 1001 |
| 25 | 0 30.2S | 110 0.2W | 1 JUL 88 | 833 | 120 | 7 | 3749 | 1006 |
| 26 | 0 4.8S | 109 50.9W | 1 JUL 88 | 1257 | 90 | 10 | 3767 | 3798 |
| 27 | 0 2.3S | 110 7.8W | 4 JUL 88 | 49 | 85 | 8 | 3743 | 502 |
| 28 | 0 30.1N | 109 59.7W | 4 JUL 88 | 409 | 130 | 8 | 3409 | 1003 |
| 29 | 1 0.1N | 110 0.3W | 4 JUL 88 | 726 | 150 | 9 | 3807 | 1005 |
| 30 | 1 30.4N | 109 59.9W | 4 JUL 88 | 1031 | 155 | 10 | 3767 | 1008 |
| 31 | 2 3.0N | 110 7.6W | 4 JUL 88 | 1400 | 155 | 10 | 3857 | 305 |
| 32 | 2 2.3N | 110 9.0W | 4 JUL 88 | 1756 | 155 | 13 | 3785 | 3820 |
| 33 | 2 59.6N | 109 59.8W | 5 JUL 88 | 19 | 190 | 20 | 3882 | 1002 |
| 34 | 4 0.3N | 110 0.1W | 5 JUL 88 | 534 | 180 | 20 | 3882 | 1000 |
| 35 | 5 0.1N | 110 0.0W | 5 JUL 88 | 1146 | 175 | 23 | 3901 | 3941 |
| 36 | 4 58.2N | 109 59.2W | 5 JUL 88 | 1456 | 185 | 25 | 3919 | 302 |
| 37 | 5 3.4N | 110 1.4W | 6 JUL 88 | 2013 | 165 | 21 | 3920 | 605 |

EP4-88-OC CRUISE TRACK
October 13 – November 10, 1988
Seattle, WA – Papeete, Tahiti

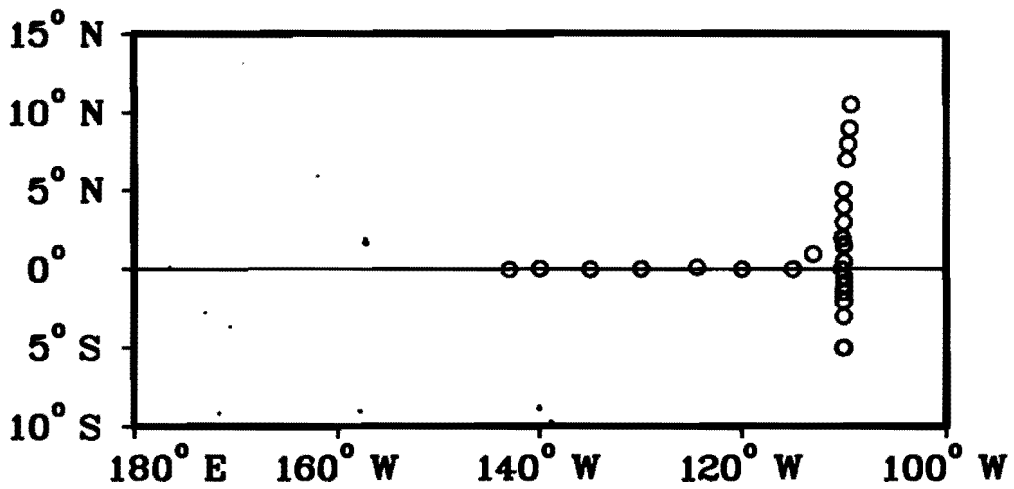
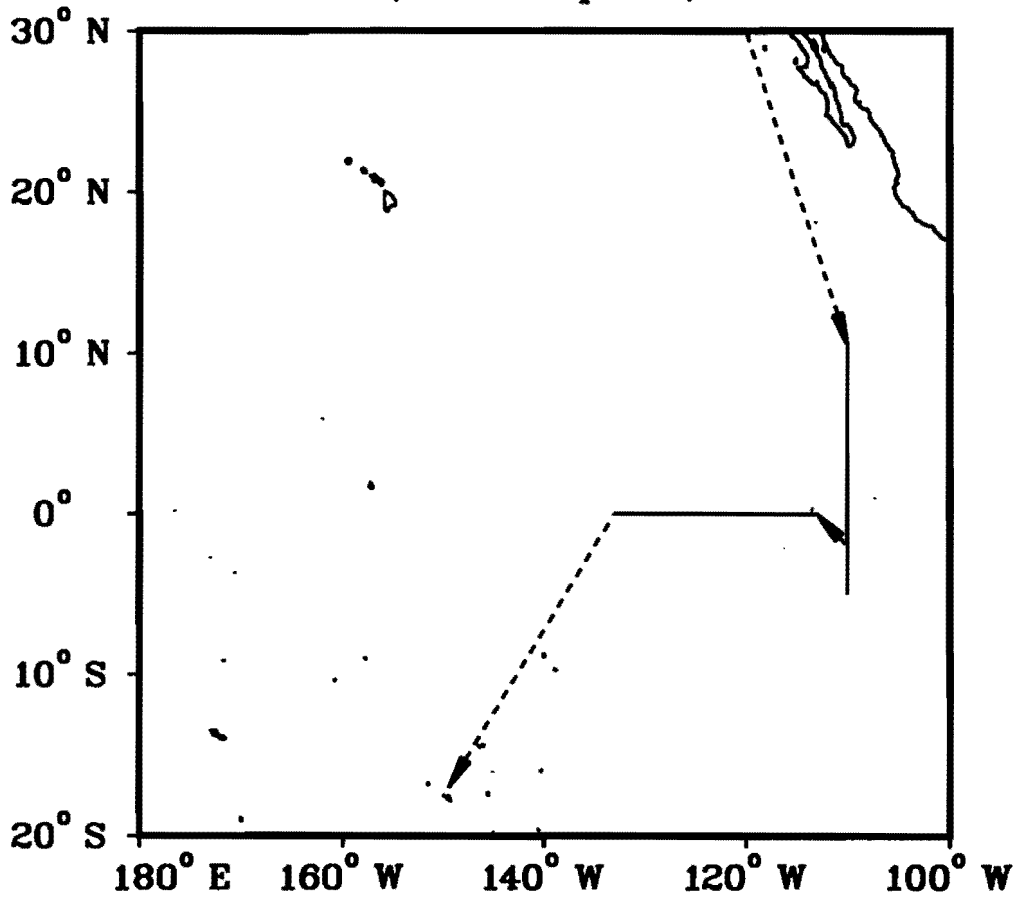


Fig. 1e. EP4-88-OC cruise track and station locations.

TABLE 1e. EP4-88 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 0 | 25 24.5N | 115 11.6W | 19 OCT 88 | 2018 | 250 | 4 | 3764 | 502 |
| 1 | 10 30.8N | 109 18.9W | 22 OCT 88 | 1159 | 60 | 5 | 2626 | 1000 |
| 2 | 9 0.0N | 109 26.6W | 23 OCT 88 | 116 | 265 | 4 | 3473 | 1001 |
| 3 | 7 59.4N | 109 35.3W | 23 OCT 88 | 639 | 260 | 7 | 4069 | 1001 |
| 4 | 7 0.4N | 109 43.9W | 23 OCT 88 | 1154 | 250 | 15 | 3882 | 1000 |
| 5 | 5 1.6N | 110 0.5W | 24 OCT 88 | 14 | 205 | 18 | 3895 | 3799 |
| 6 | 5 2.3N | 110 0.1W | 24 OCT 88 | 300 | 208 | 16 | 3895 | 300 |
| 7 | 3 59.6N | 110 0.2W | 24 OCT 88 | 907 | 185 | 20 | 3821 | 1001 |
| 8 | 3 0.0N | 110 0.3W | 24 OCT 88 | 1437 | 170 | 20 | 3864 | 1004 |
| 9 | 2 0.5N | 110 8.9W | 25 OCT 88 | 1045 | 145 | 10 | 3886 | 3798 |
| 10 | 1 57.6N | 110 6.3W | 25 OCT 88 | 1329 | 150 | 10 | 3886 | 299 |
| 11 | 1 29.7N | 110 0.4W | 25 OCT 88 | 1633 | 131 | 9 | 3733 | 1007 |
| 12 | 0 95.6N | 110 0.7W | 25 OCT 88 | 2007 | 155 | 12 | 3803 | 1001 |
| 13 | 0 29.6N | 110 0.4W | 25 OCT 88 | 2335 | 135 | 12 | 3743 | 1001 |
| 14 | 0 30.1S | 110 0.7W | 26 OCT 88 | 510 | 110 | 10 | 3621 | 1004 |
| 15 | 0 1.3S | 110 10.0W | 26 OCT 88 | 933 | 110 | 10 | 3795 | 3699 |
| 16 | 0 0.6S | 110 11.3W | 26 OCT 88 | 1230 | 115 | 11 | 3818 | 302 |
| 17 | 1 0.4S | 109 59.9W | 27 OCT 88 | 937 | 140 | 6 | 3945 | 1001 |
| 18 | 1 29.4S | 109 58.7W | 27 OCT 88 | 1258 | 130 | 9 | 3846 | 1002 |
| 19 | 4 58.5S | 109 59.6W | 29 OCT 88 | 331 | 140 | 14 | 3415 | 300 |
| 20 | 5 0.6S | 109 57.6W | 29 OCT 88 | 603 | 133 | 12 | 3391 | 3247 |
| 21 | 5 0.2S | 110 4.4W | 29 OCT 88 | 1206 | 90 | 7 | 3633 | 1001 |
| 22 | 2 59.9S | 110 0.2W | 29 OCT 88 | 1738 | 125 | 12 | 3773 | 1004 |
| 23 | 2 1.6S | 110 0.2W | 30 OCT 88 | 10 | 120 | 8 | 3898 | 3799 |
| 24 | 2 2.7S | 109 58.6W | 30 OCT 88 | 306 | 110 | 8 | 3943 | 302 |
| 25 | 0 59.1N | 113 1.2W | 31 OCT 88 | 218 | 120 | 10 | 3910 | 3784 |
| 26 | 0 0.1S | 114 58.6W | 31 OCT 88 | 1354 | 130 | 12 | 4019 | 3913 |
| 27 | 0 0.7S | 114 58.2W | 31 OCT 88 | 1655 | 120 | 10 | 4016 | 299 |
| 28 | 0 0.0N | 120 0.5W | 1 NOV 88 | 1353 | 110 | 11 | 4202 | 4048 |
| 29 | 0 0.3S | 120 0.0W | 1 NOV 88 | 1709 | 105 | 11 | 4193 | 301 |
| 30 | 0 7.0N | 124 25.6W | 2 NOV 88 | 1303 | 117 | 22 | 4598 | 4396 |
| 31 | 0 7.1N | 124 26.4W | 2 NOV 88 | 1551 | 106 | 13 | 4579 | 167 |
| 32 | 0 0.4N | 129 59.5W | 4 NOV 88 | 1204 | 115 | 11 | 4288 | 3997 |
| 33 | 0 1.4N | 129 57.4W | 4 NOV 88 | 1518 | 115 | 12 | 4322 | 299 |
| 34 | 0 0.6S | 134 59.6W | 5 NOV 88 | 1151 | 120 | 13 | 4371 | 4199 |
| 35 | 0 0.5S | 135 0.0W | 5 NOV 88 | 1535 | 120 | 17 | 4350 | 301 |
| 36 | 0 2.4N | 139 58.5W | 6 NOV 88 | 1528 | 100 | 9 | 4352 | 4047 |
| 37 | 0 1.9N | 139 56.8W | 6 NOV 88 | 1852 | 115 | 10 | 4358 | 300 |
| 38 | 0 1.6S | 142 59.5W | 7 NOV 88 | 819 | 110 | 6 | 4377 | 1002 |

EP5-88-OC CRUISE TRACK
November 14 – December 11, 1988
Papeete, Tahiti – Seattle, WA

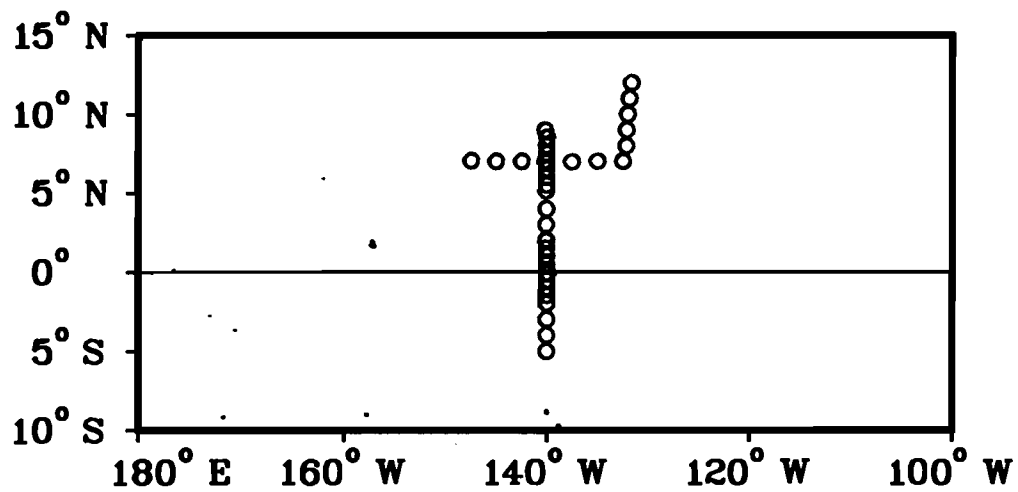
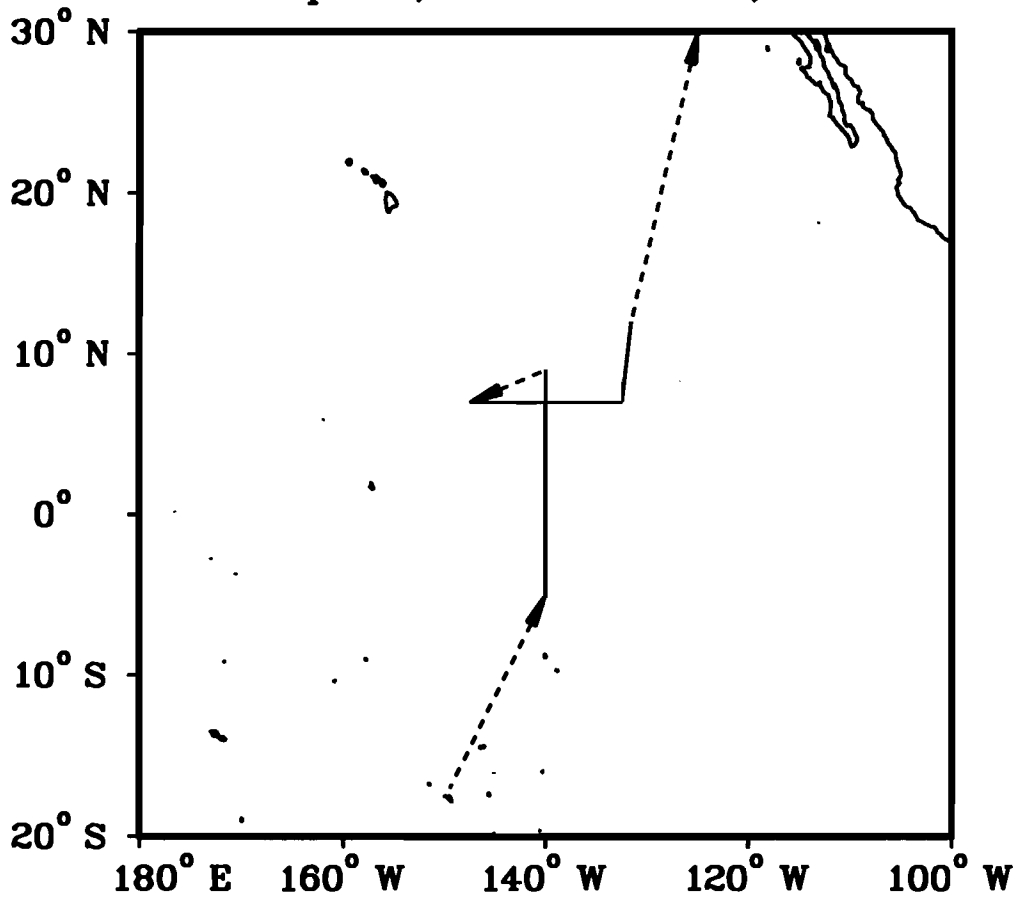


Fig. 1f. EP5-88-OC cruise track and station locations.

TABLE 1f. EP5-88 CTD cast summary.

| CAST # | LATITUDE | LONGITUDE | DATE | TIME (GMT) | W/D (T) | W/S (kts) | DEPTH (m) | CAST (db) |
|--------|----------|-----------|-----------|------------|---------|-----------|-----------|-----------|
| 1 | 5 0.0S | 140 0.3W | 18 NOV 88 | 621 | 95 | 15 | 4292 | 1007 |
| 2 | 3 59.0S | 140 0.7W | 18 NOV 88 | 1151 | 80 | 16 | 4493 | 1003 |
| 3 | 2 59.8S | 139 59.9W | 18 NOV 88 | 1723 | 95 | 20 | 4444 | 1009 |
| 4 | 1 59.2S | 139 59.2W | 19 NOV 88 | 558 | 90 | 20 | 4261 | 4106 |
| 5 | 1 58.4S | 139 57.1W | 19 NOV 88 | 903 | 95 | 20 | 4261 | 300 |
| 6 | 1 29.8S | 139 59.4W | 19 NOV 99 | 1225 | 90 | 14 | 4279 | 1002 |
| 7 | 0 59.2S | 139 58.5W | 19 NOV 88 | 1600 | 95 | 14 | 4267 | 1000 |
| 8 | 0 30.5S | 139 59.9W | 18 NOV 88 | 1934 | 90 | 14 | 4302 | 1006 |
| 9 | 0 4.4S | 139 52.4W | 19 NOV 88 | 2318 | 76 | 18 | 4328 | 501 |
| 10 | 0 5.3S | 139 58.9W | 20 NOV 88 | 933 | 90 | 18 | 4303 | 4197 |
| 11 | 0 3.9S | 140 0.0W | 20 NOV 88 | 1319 | 100 | 20 | 4267 | 301 |
| 12 | 0 7.6S | 139 56.4W | 21 NOV 88 | 430 | 100 | 17 | 4267 | 503 |
| 13 | 0 29.4N | 140 0.4W | 21 NOV 88 | 839 | 100 | 16 | 4334 | 1000 |
| 14 | 1 0.1N | 140 0.2W | 21 NOV 88 | 1255 | 105 | 22 | 4309 | 1001 |
| 15 | 1 29.7N | 140 0.5W | 21 NOV 88 | 1631 | 125 | 18 | 4823 | 1015 |
| 16 | 2 0.6N | 140 0.4W | 22 NOV 88 | 938 | 80 | 18 | 4371 | 4247 |
| 17 | 2 0.2N | 140 0.7W | 22 NOV 88 | 1328 | 95 | 16 | 4371 | 300 |
| 18 | 1 57.8N | 140 4.5W | 22 NOV 88 | 2234 | 110 | 10 | 4385 | 499 |
| 19 | 2 59.7N | 140 1.6W | 23 NOV 88 | 408 | 110 | 13 | 4297 | 999 |
| 20 | 3 59.4N | 139 59.6W | 23 NOV 88 | 940 | 140 | 15 | 4340 | 1002 |
| 21 | 5 8.3N | 140 3.7W | 23 NOV 88 | 1554 | 140 | 14 | 4352 | 301 |
| 22 | 5 7.6N | 140 2.3W | 23 NOV 88 | 1911 | 150 | 15 | 4377 | 4099 |
| 23 | 5 29.7N | 139 58.7W | 24 NOV 88 | 36 | 155 | 14 | 4850 | 1000 |
| 24 | 5 58.9N | 139 59.4W | 24 NOV 88 | 419 | 140 | 14 | 4844 | 1001 |
| 25 | 6 30.3N | 139 59.9W | 24 NOV 88 | 752 | 140 | 14 | 4822 | 1009 |
| 26 | 6 56.7N | 139 58.7W | 24 NOV 88 | 1152 | 140 | 12 | 4985 | 4697 |
| 27 | 7 1.7N | 140 0.5W | 24 NOV 88 | 2301 | 140 | 20 | 4998 | 304 |
| 28 | 7 29.7N | 139 59.1W | 25 NOV 88 | 156 | 140 | 16 | 4924 | 1019 |
| 29 | 7 59.6N | 139 59.8W | 25 NOV 88 | 529 | 145 | 18 | 5121 | 1007 |
| 31 | 8 31.3N | 139 56.2W | 25 NOV 88 | 1047 | 135 | 10 | 4844 | 1007 |
| 32 | 8 57.2N | 140 7.6W | 25 NOV 88 | 1503 | 140 | 8 | 5152 | 4495 |
| 33 | 8 58.5N | 140 9.8W | 25 NOV 88 | 1949 | 135 | 8 | 5137 | 502 |
| 34 | 7 3.0N | 147 29.8W | 27 NOV 88 | 2211 | 135 | 22 | 4952 | 500 |
| 35 | 7 1.2N | 147 28.4W | 28 NOV 88 | 105 | 150 | 13 | 4930 | 4695 |
| 36 | 6 59.5N | 144 59.3W | 28 NOV 88 | 1511 | 150 | 18 | 5121 | 1015 |
| 37 | 6 59.9N | 142 28.8W | 29 NOV 88 | 253 | 185 | 11 | 5010 | 1000 |
| 38 | 7 1.2N | 140 7.0W | 29 NOV 88 | 2334 | 150 | 18 | 4990 | 501 |
| 39 | 6 59.0N | 140 8.4W | 30 NOV 88 | 24 | 155 | 21 | 4968 | 502 |
| 40 | 7 1.1N | 140 9.0W | 30 NOV 88 | 107 | 155 | 17 | 4957 | 499 |
| 41 | 6 58.9N | 137 30.5W | 30 NOV 88 | 1332 | 140 | 16 | 4751 | 1001 |
| 42 | 7 0.5N | 134 58.2W | 1 DEC 88 | 135 | 145 | 11 | 4659 | 999 |
| 43 | 7 1.7N | 132 30.5W | 2 DEC 88 | 17 | 160 | 18 | 4679 | 500 |
| 44 | 6 59.9N | 132 29.7W | 2 DEC 88 | 253 | 160 | 16 | 4536 | 4299 |
| 45 | 7 59.7N | 132 10.2W | 2 DEC 88 | 1252 | 190 | 6 | 4813 | 1000 |
| 46 | 9 0.1N | 132 7.9W | 2 DEC 88 | 1913 | 120 | 24 | 4907 | 1000 |
| 47 | 9 59.6N | 132 2.2W | 3 DEC 88 | 116 | 75 | 10 | 5029 | 1001 |
| 48 | 11 0.3N | 131 51.4W | 3 DEC 88 | 711 | 95 | 20 | 5029 | 1009 |
| 49 | 12 0.0N | 131 39.9W | 3 DEC 88 | 1301 | 95 | 14 | 4918 | 1001 |

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

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

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

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

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

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

TABLE 5. Cloud type.

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

TABLE 6. Cloud amount.

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

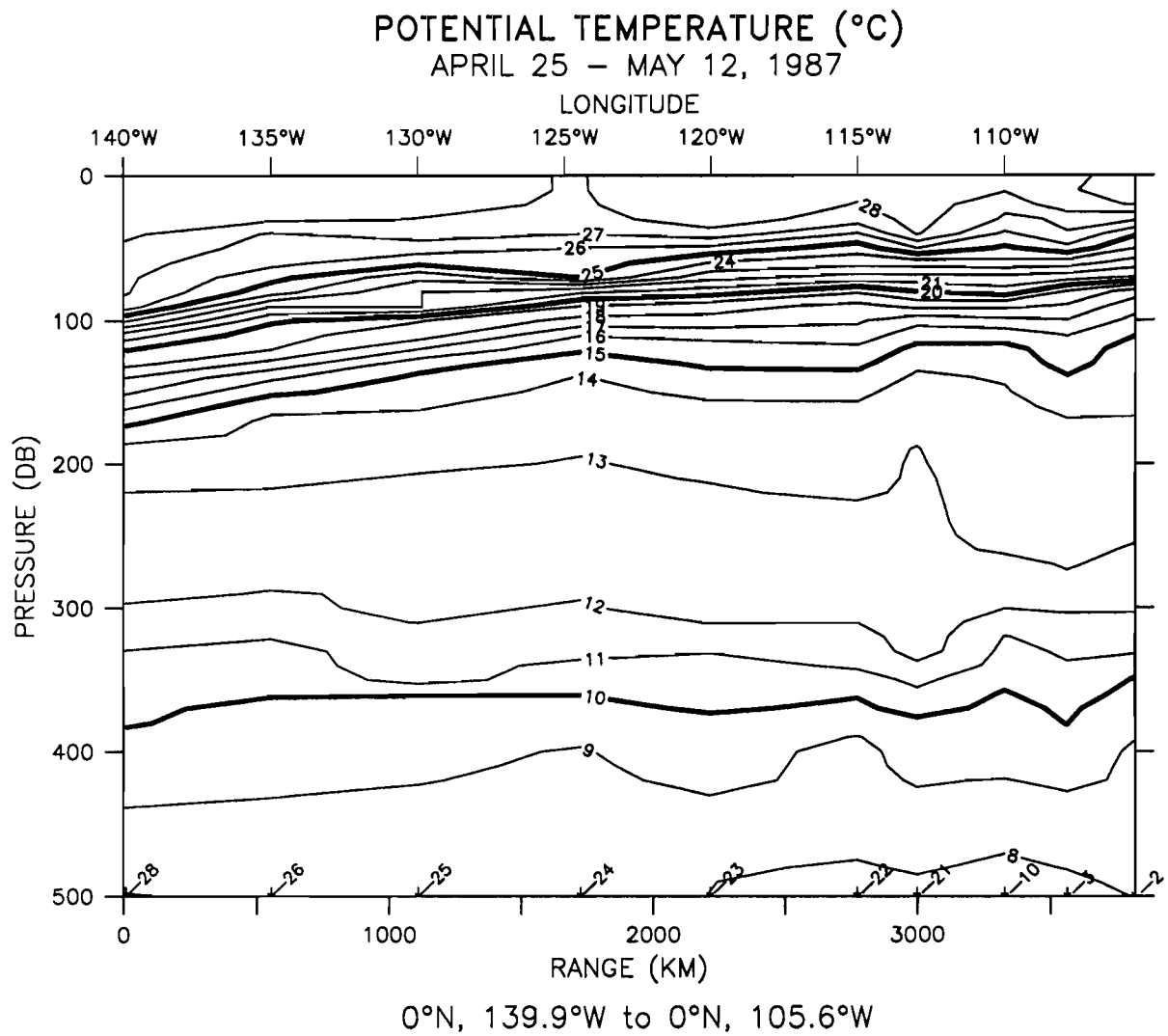


Fig. 2. EP1-87-RS spring potential temperature (C) section along the equator. Contour interval is 1°C.

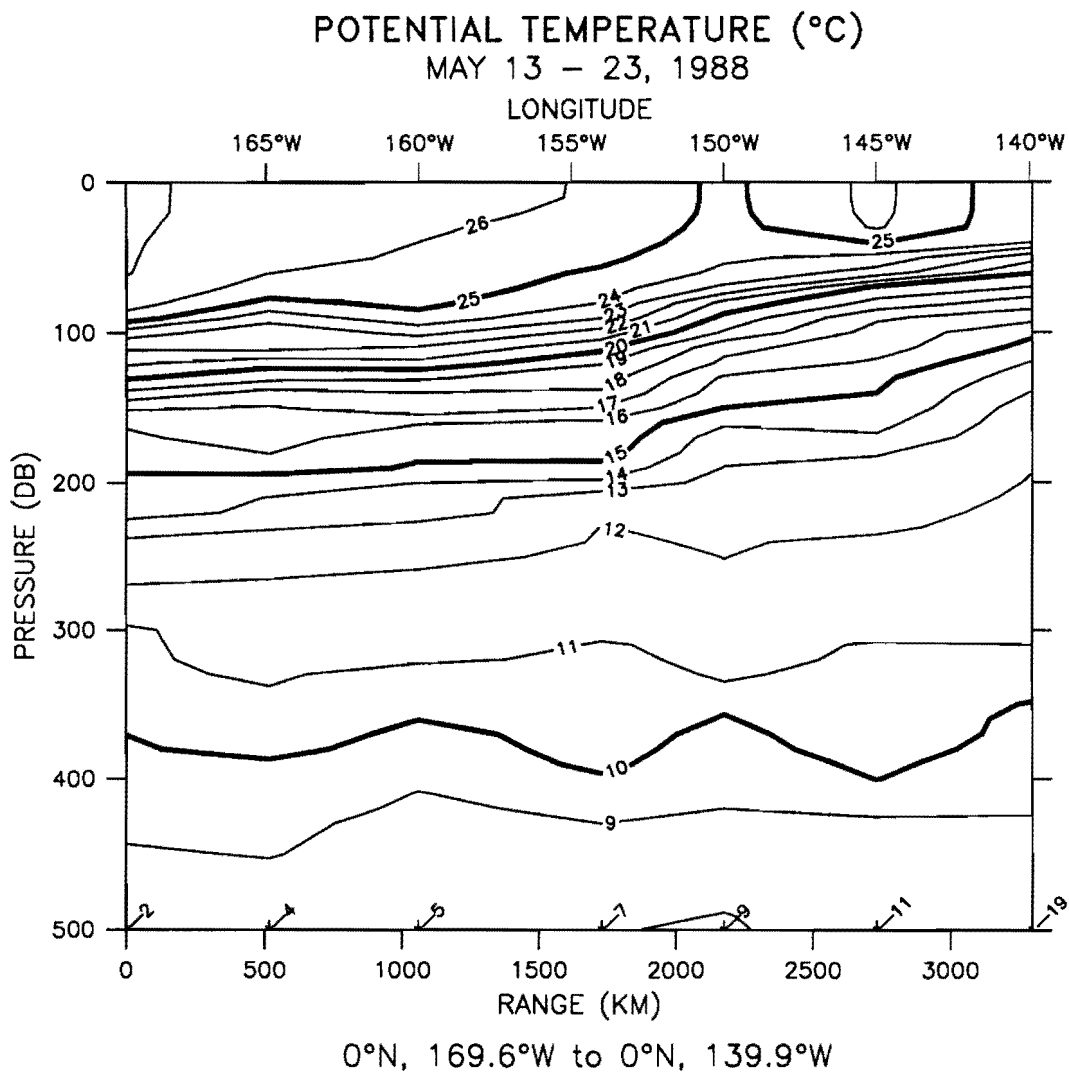


Fig. 3. EP1-88-OC spring potential temperature (C) section along the equator. Contour interval is 1°C.

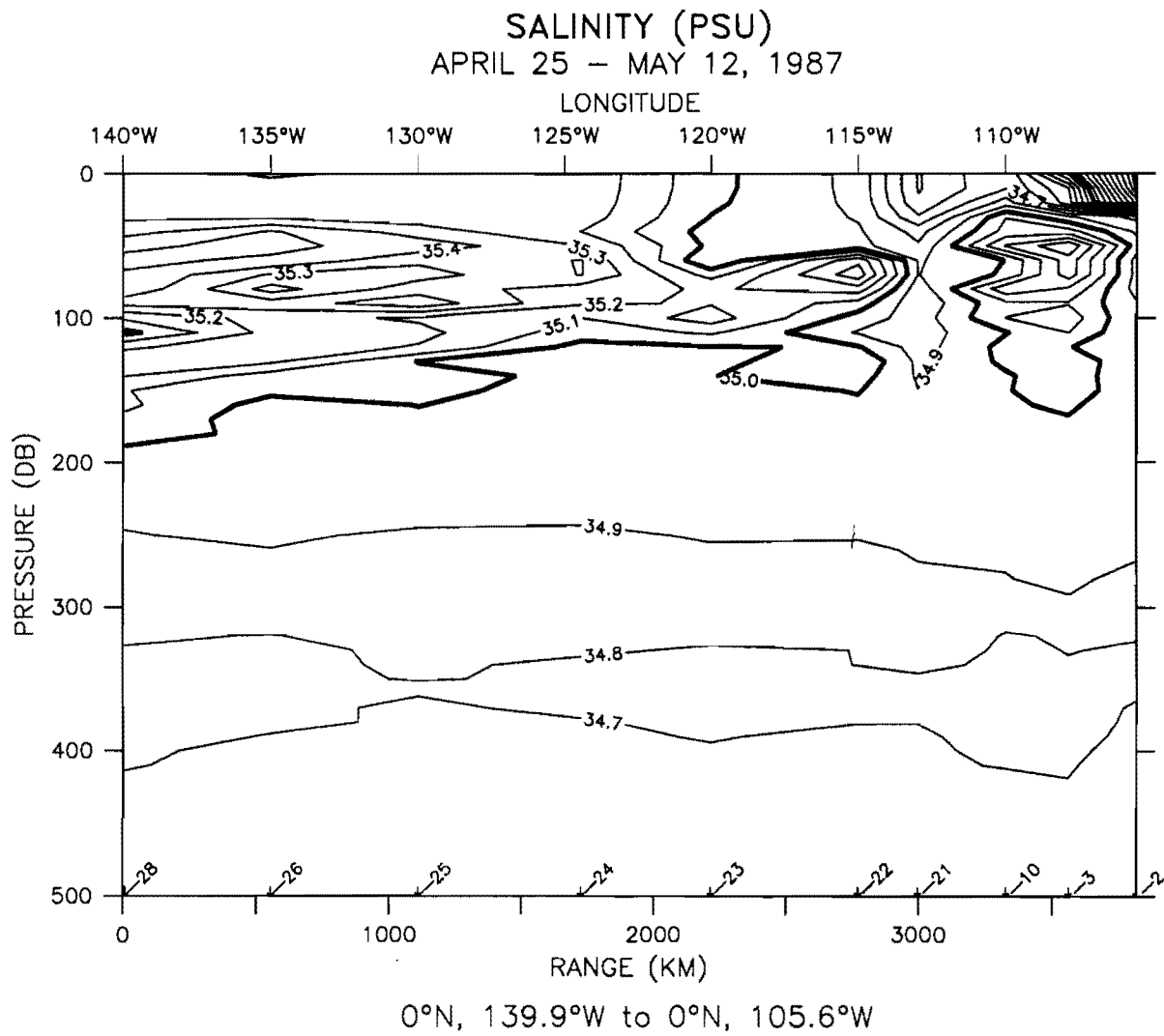


Fig. 4. EPI-87-RS spring salinity (psu) section along the equator. Contour interval is 0.1 psu.

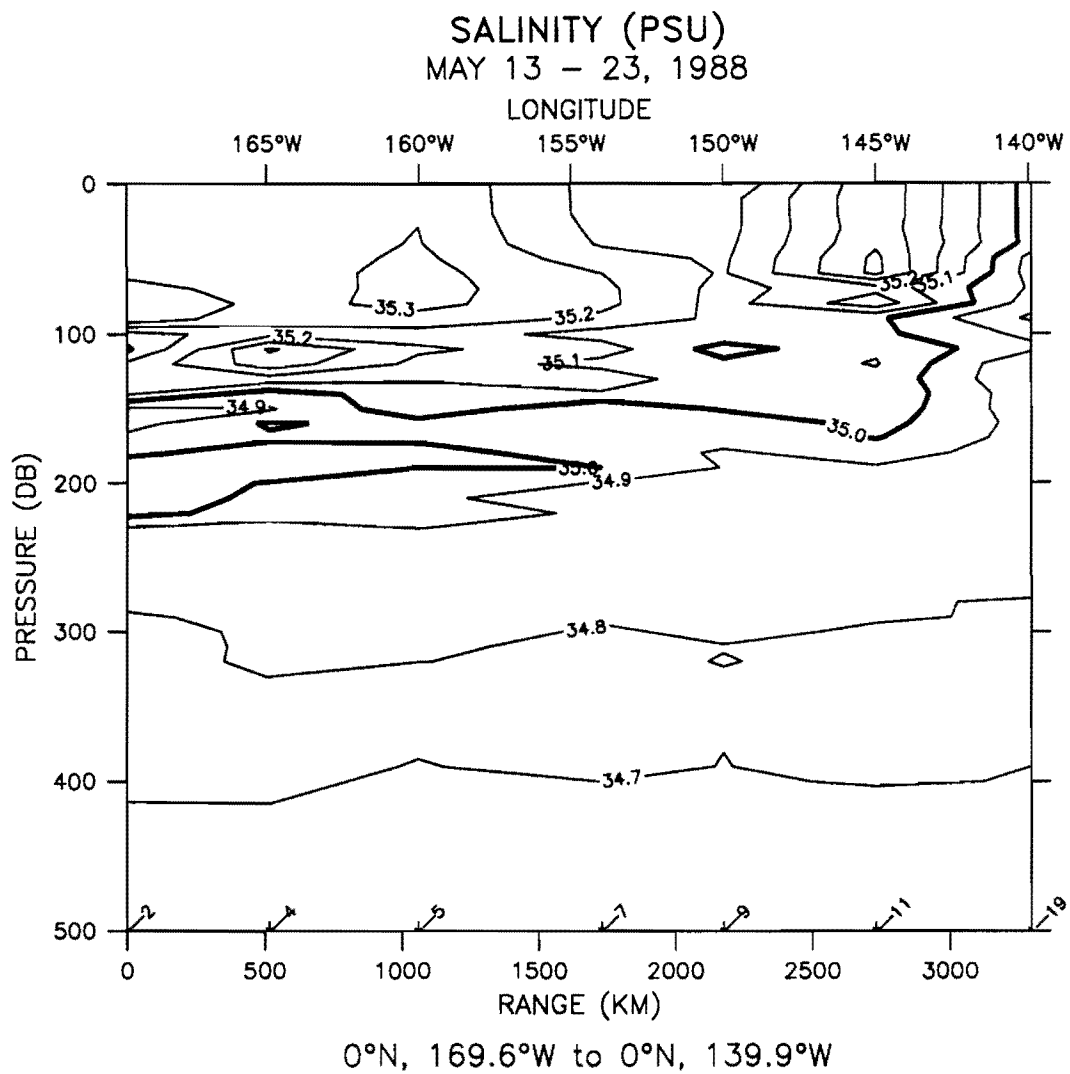


Fig. 5. EP1-88-OC spring salinity (psu) section along the equator. Contour interval is 0.1 psu.

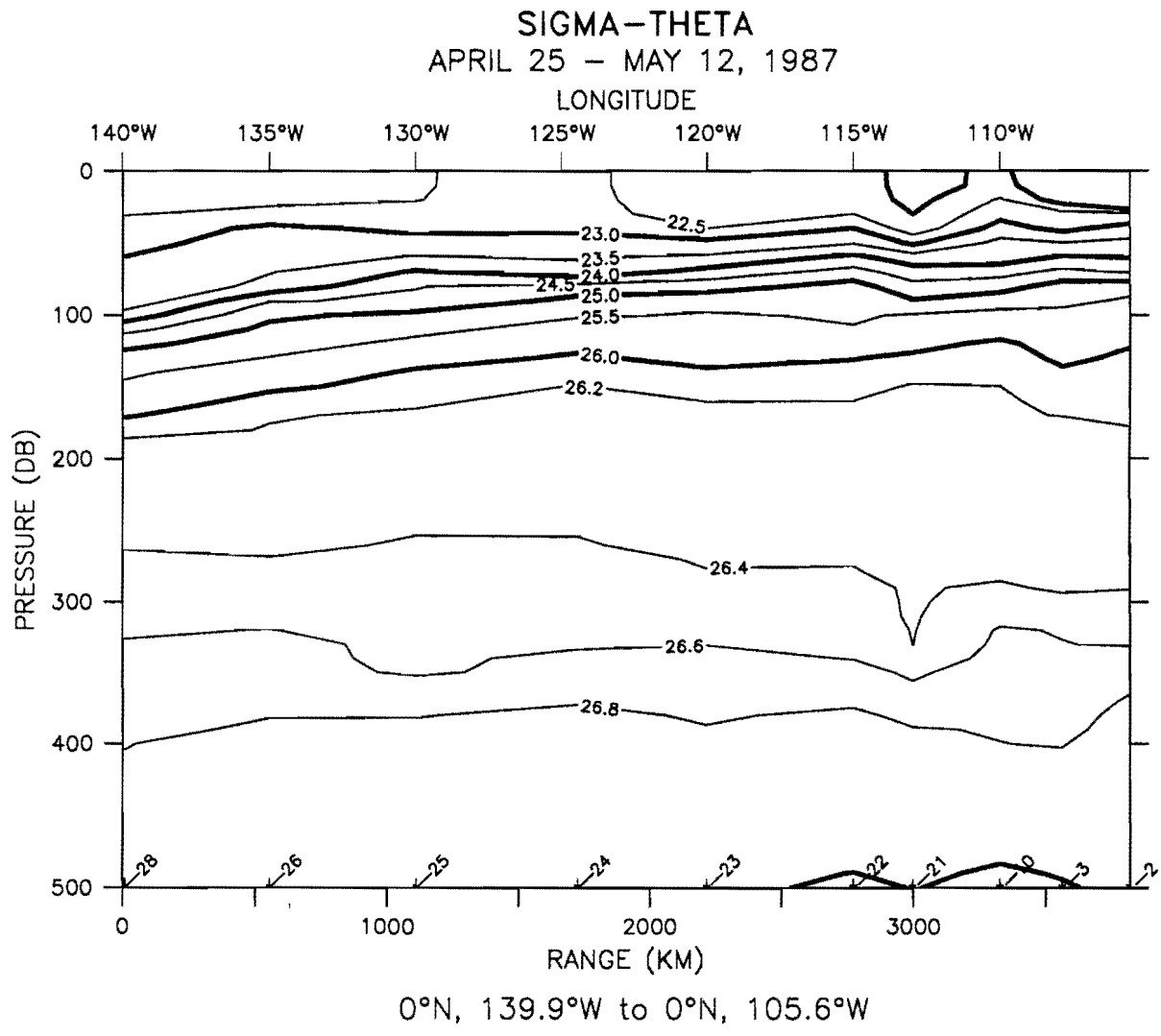


Fig. 6. EP1-87-RS spring potential density (kg/m^3) section along the equator. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

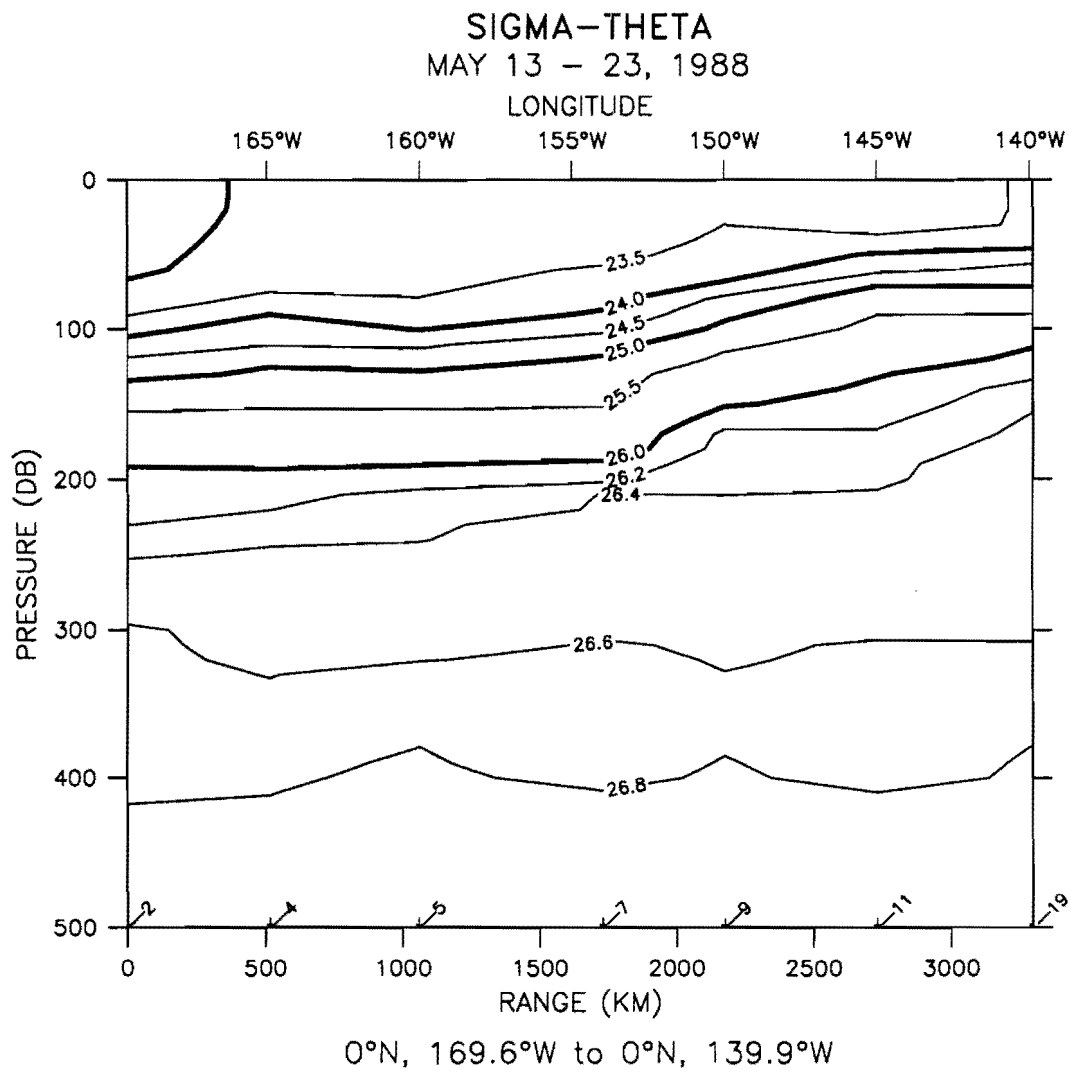


Fig. 7. EP1-88-OC spring potential density (kg/m^3) section along the equator. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

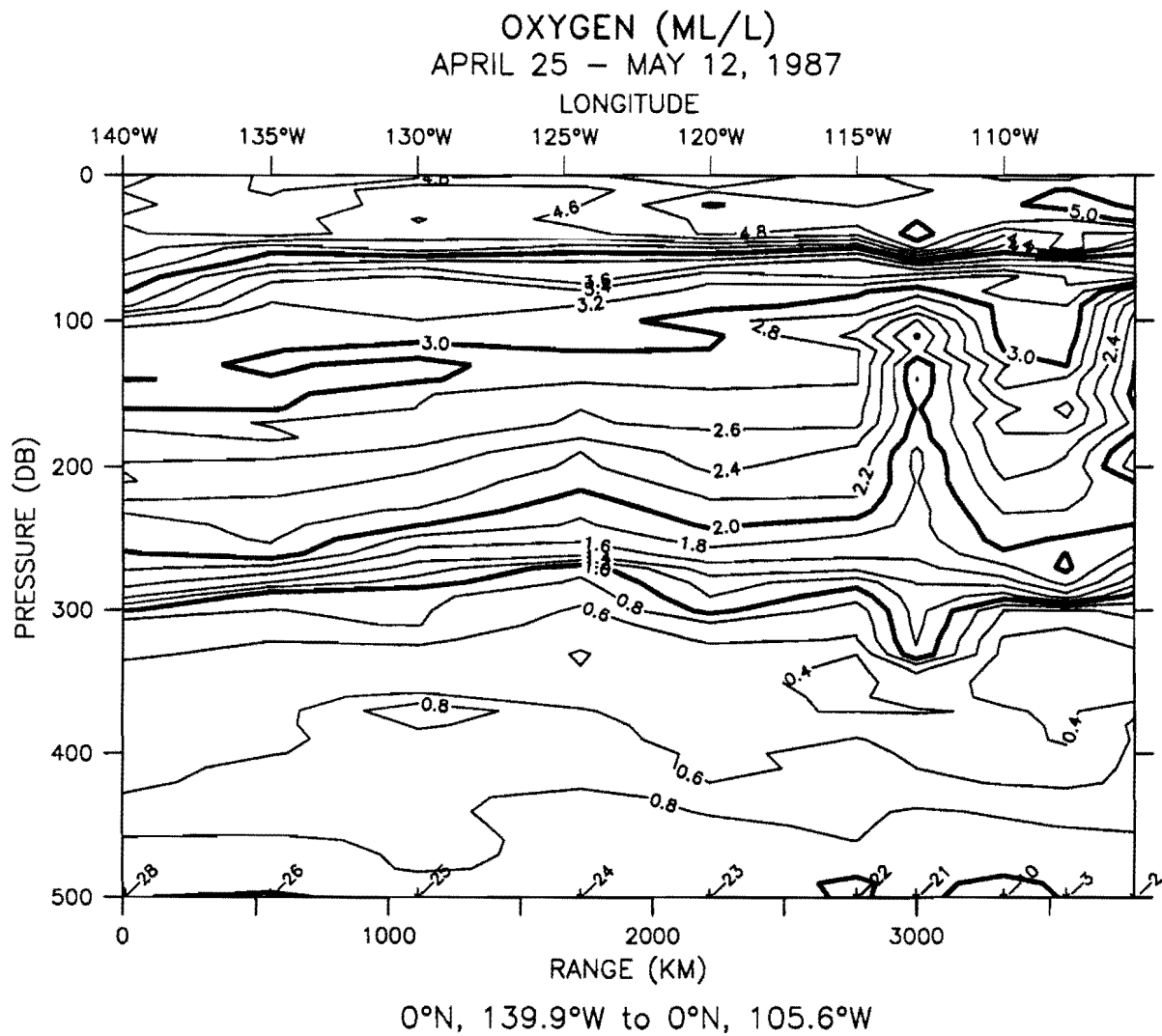


Fig. 8. EP1-87-RS spring oxygen (ml/l) section along the equator. Contour interval is 0.2 ml/l.

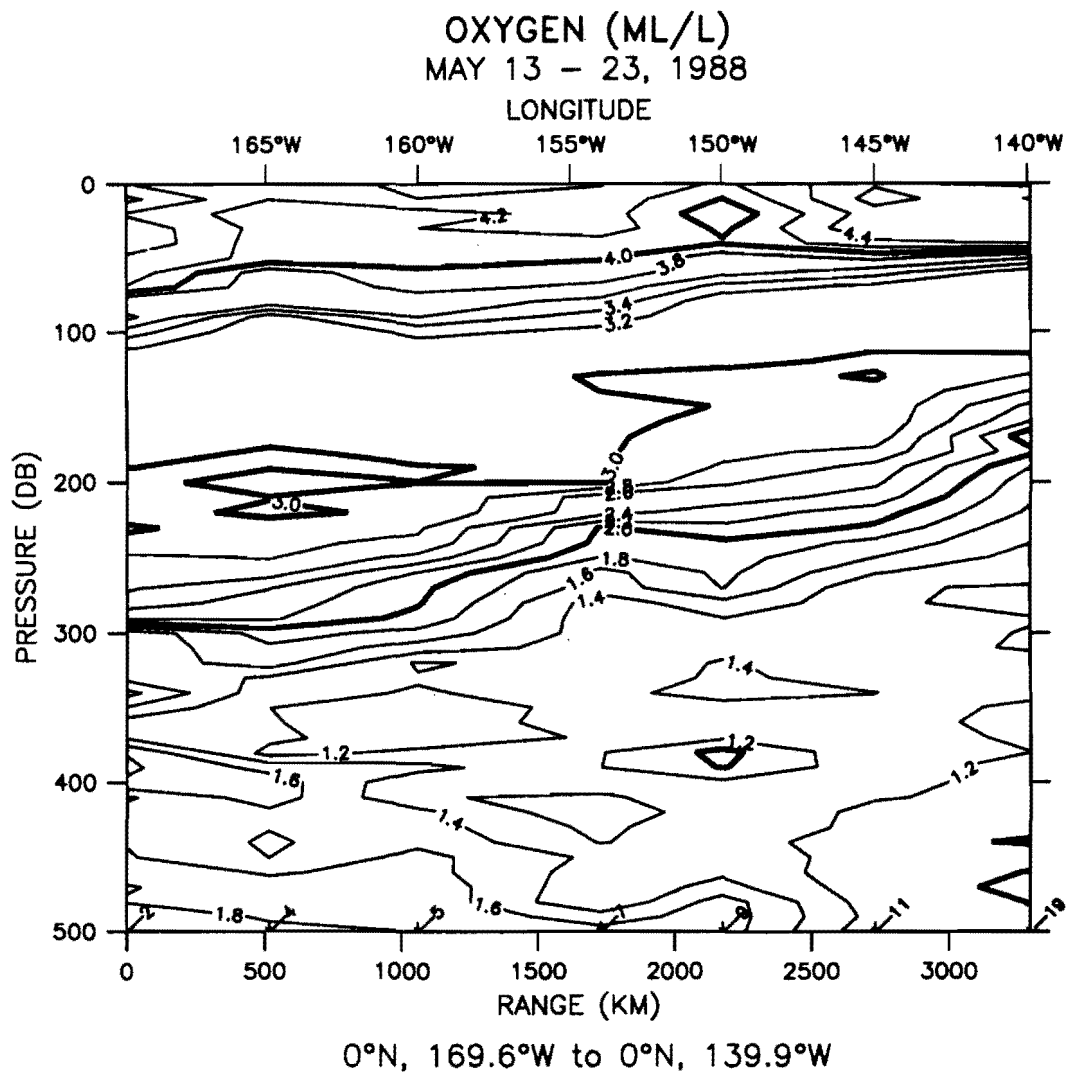


Fig. 9. EP1-88-OC spring oxygen (ml/l) section along the equator. Contour interval is 0.2 ml/l.

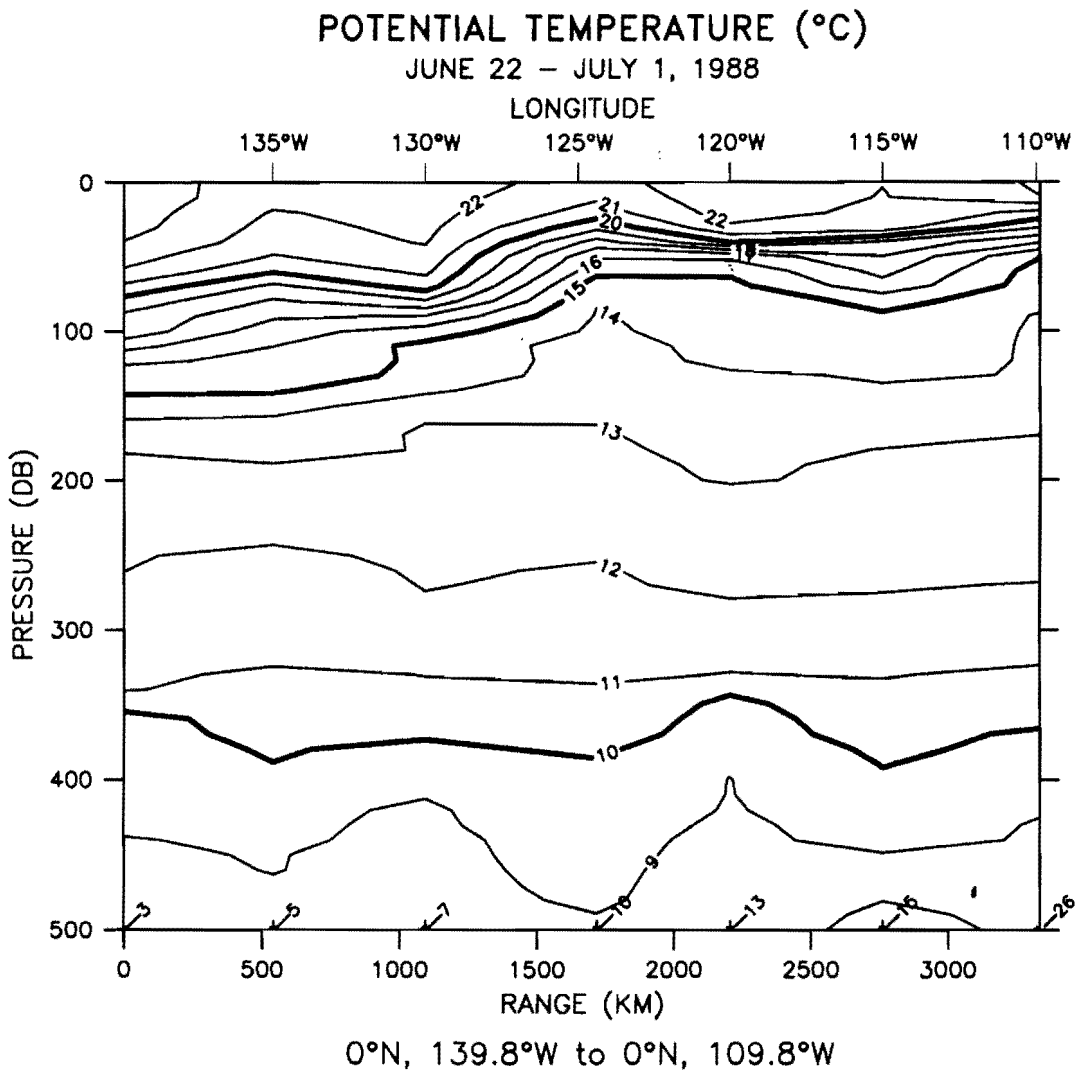


Fig. 10. EP2-88-OC summer potential temperature (C) section along the equator. Contour interval is 1°C.

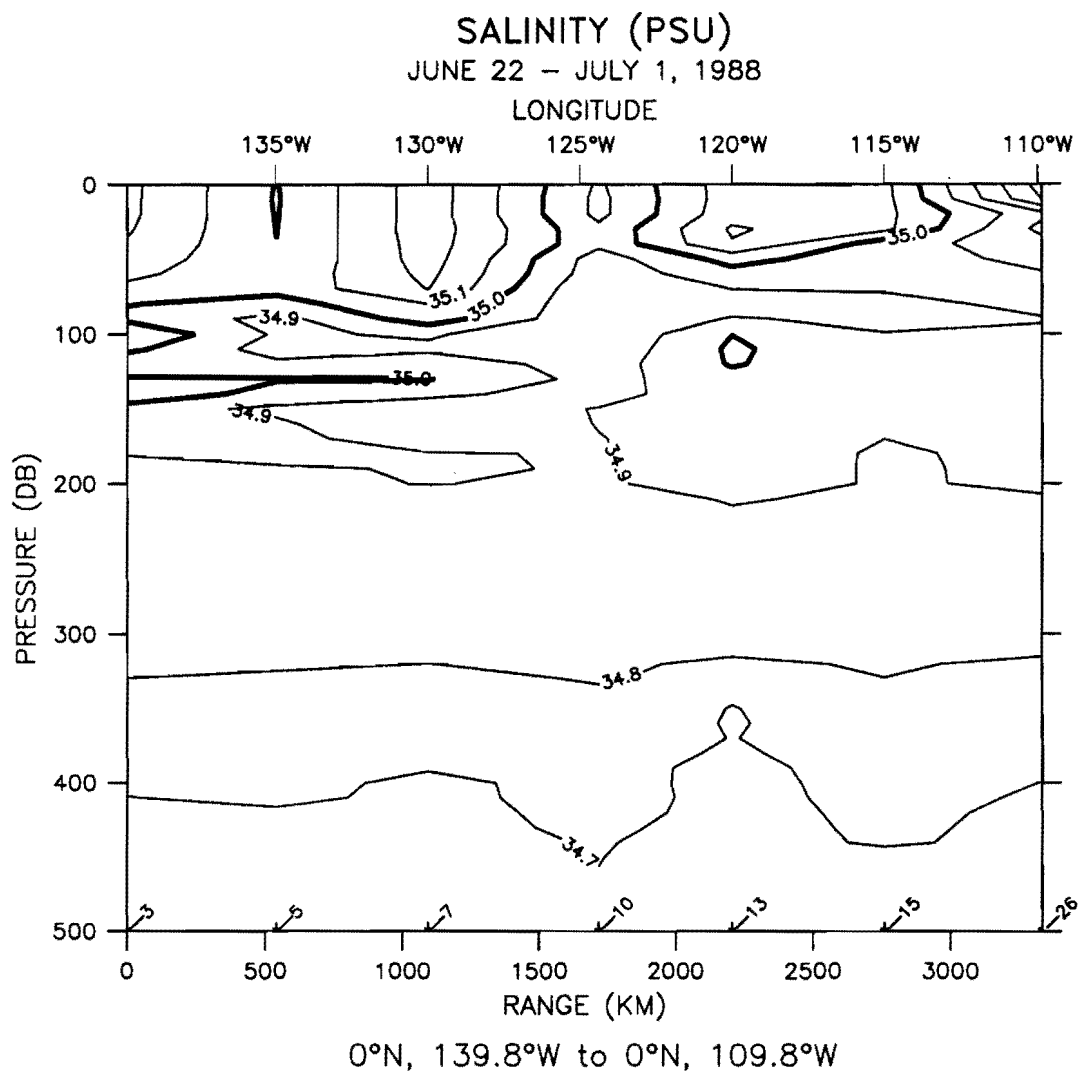


Fig. 11. EP2-88-OC summer salinity (psu) section along the equator. Contour interval is 0.1 psu.

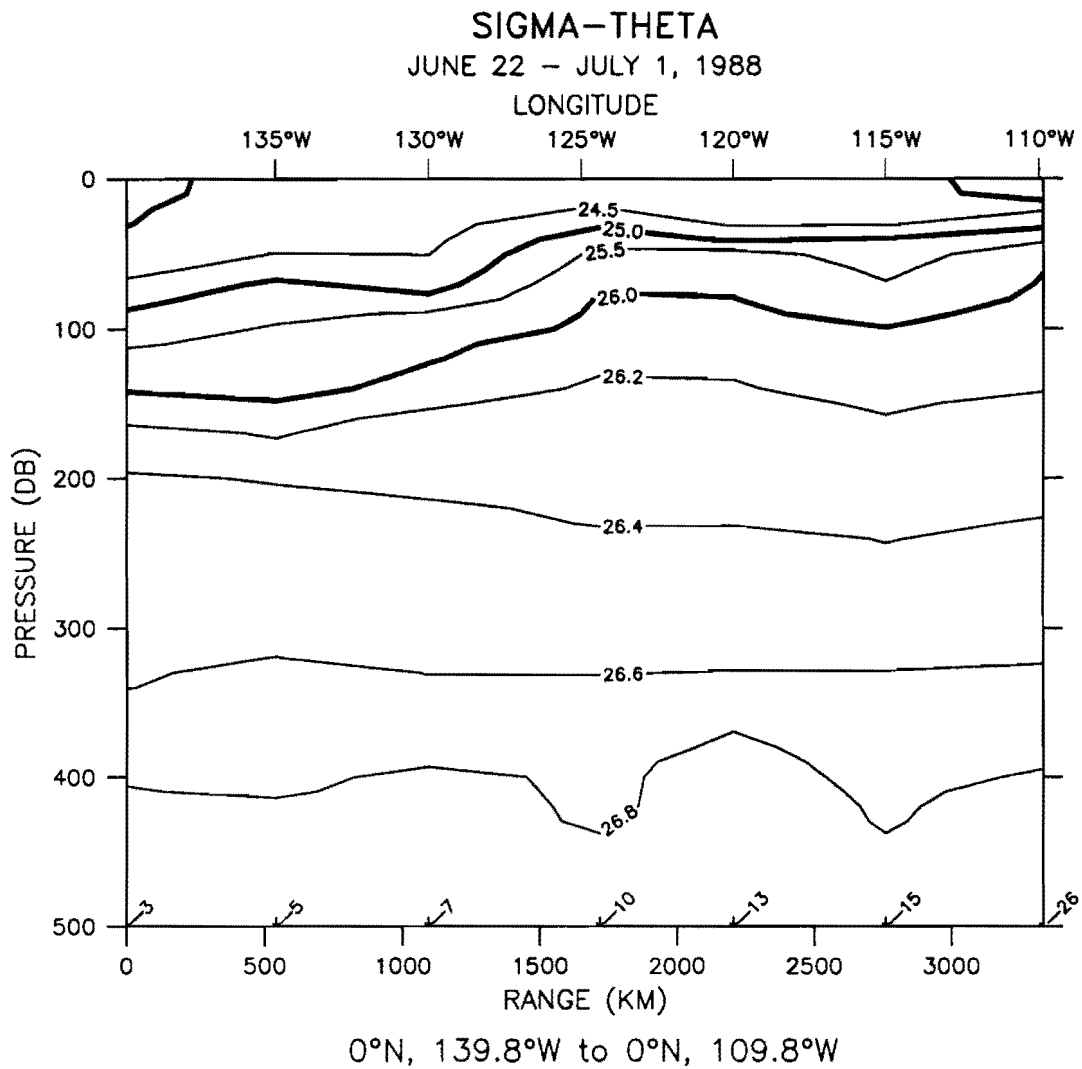


Fig. 12. EP2-88-OC summer potential density (kg/m^3) section along the equator. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

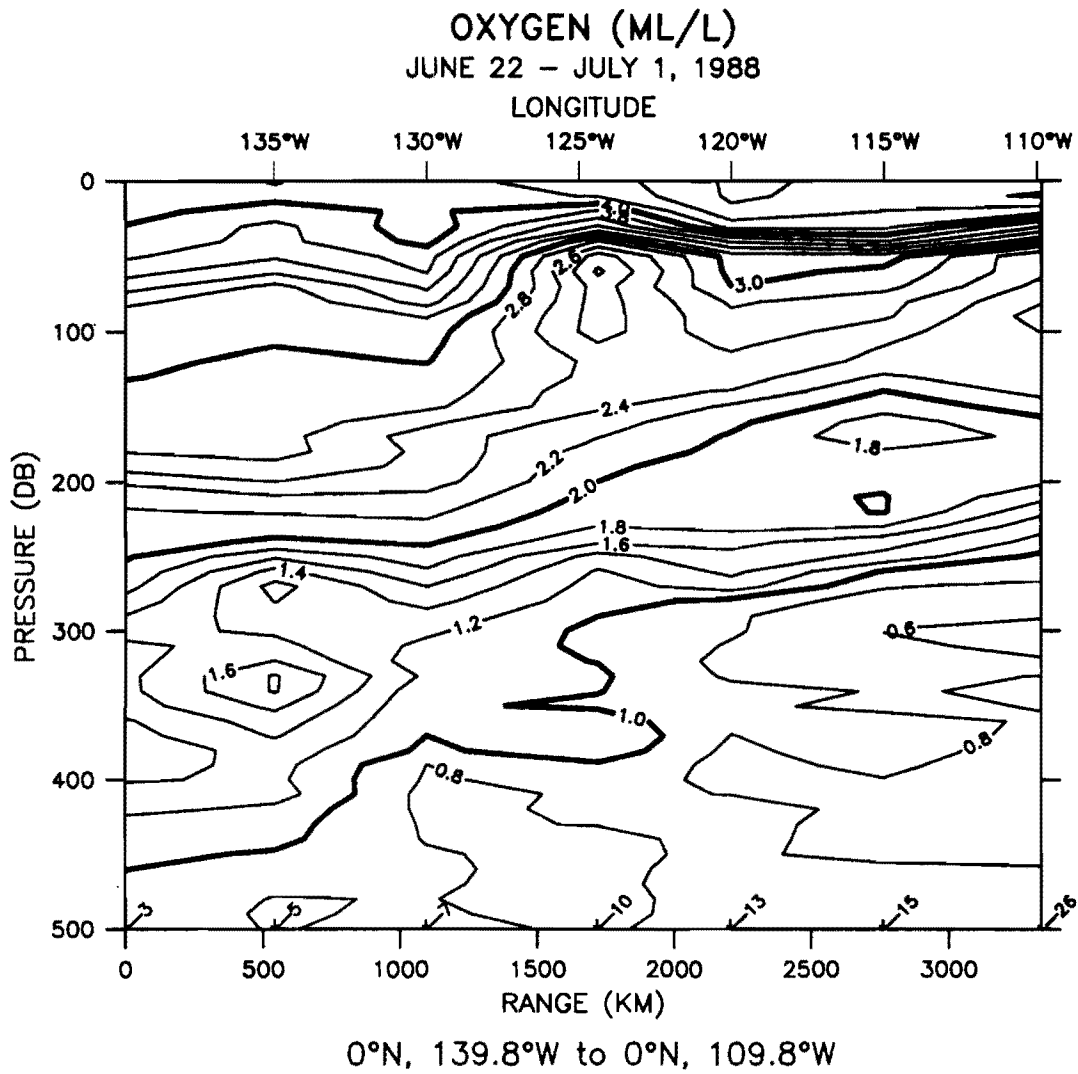


Fig. 13. EP2-88-OC summer oxygen (ml/l) section along the equator. Contour interval is 0.2 ml/l.

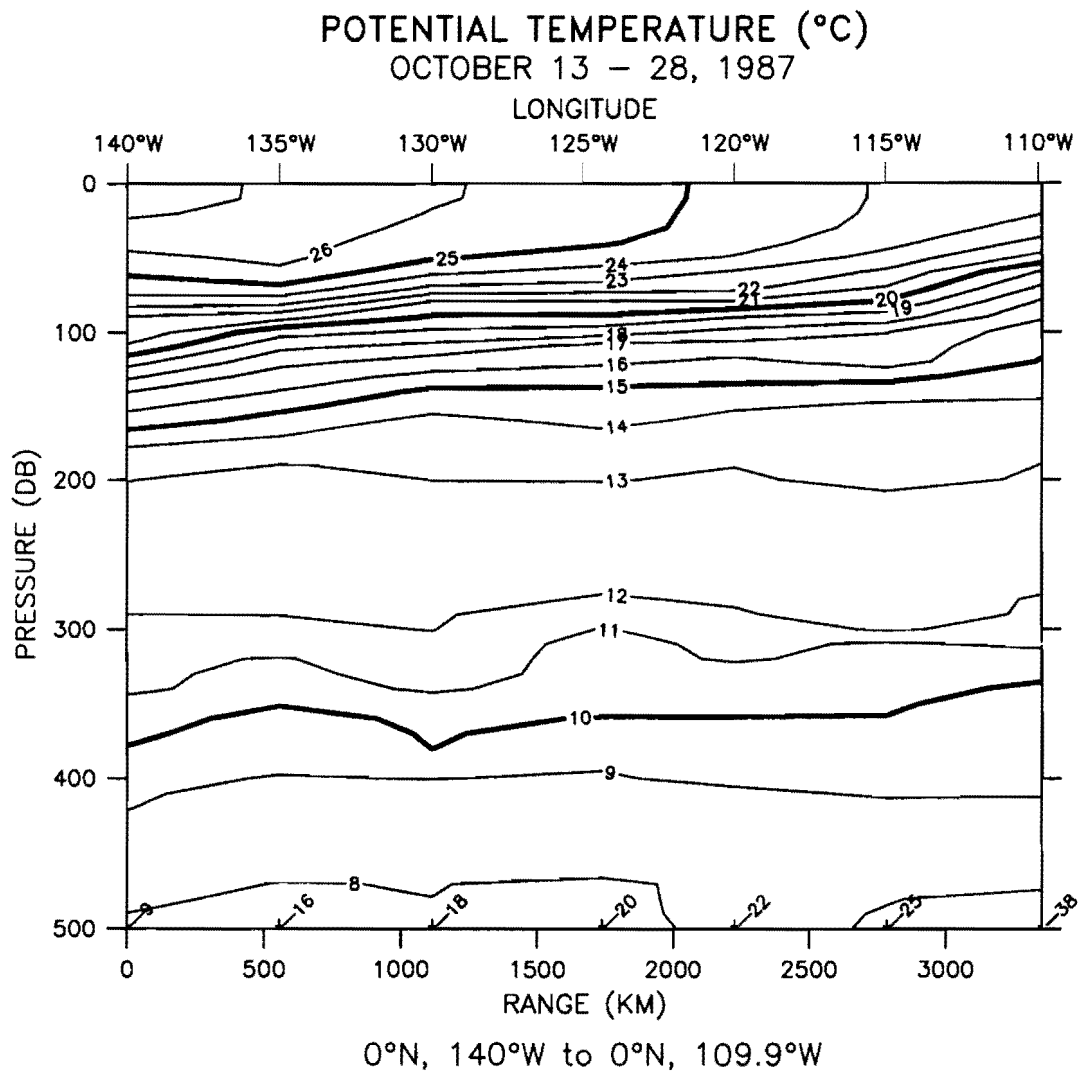


Fig. 14. EP2-87-OC fall potential temperature (C) section along the equator. Contour interval is 1°C.

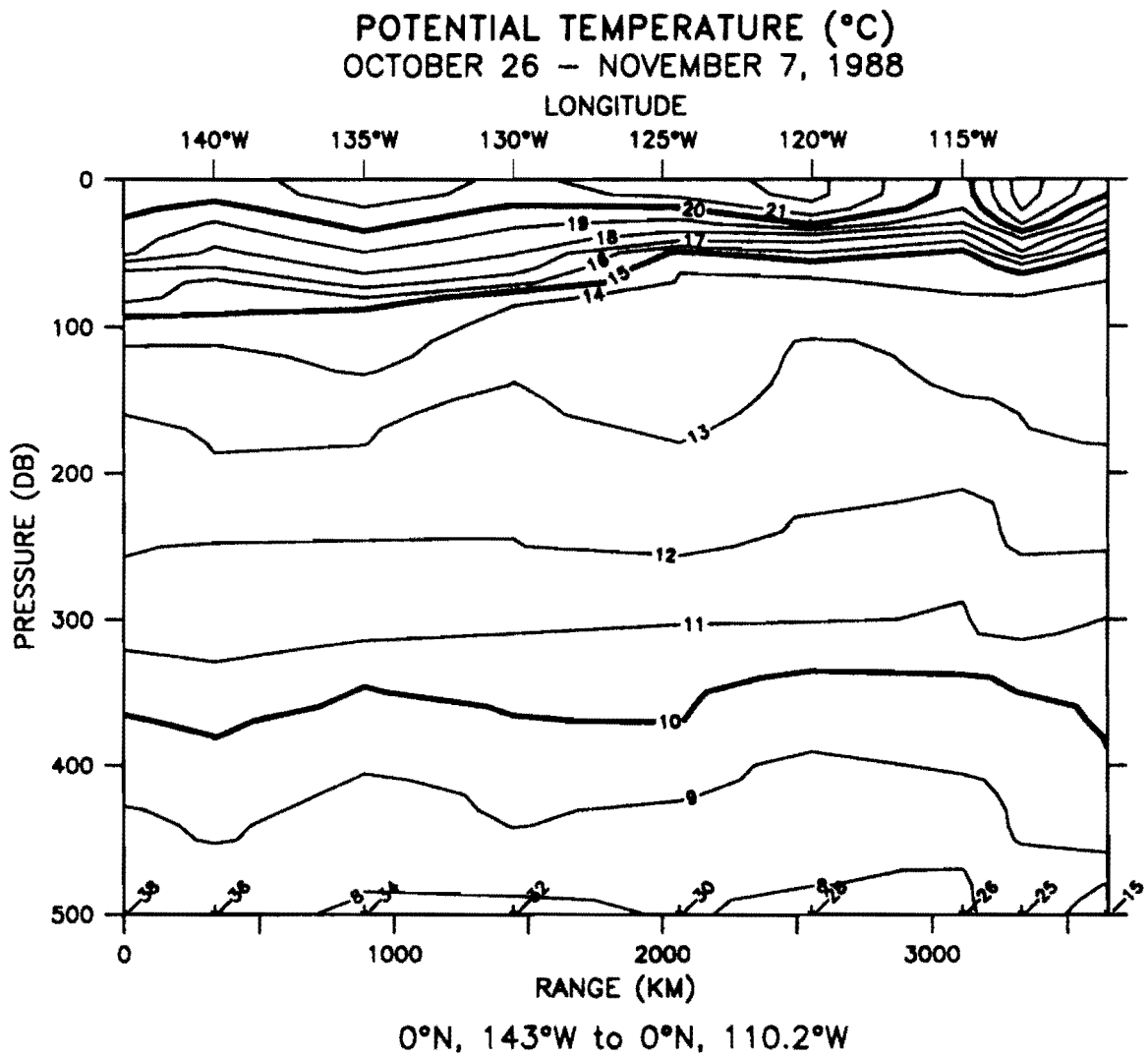


Fig. 15. EP4-88-OC fall potential temperature (C) section along the equator. Contour interval is 1°C.

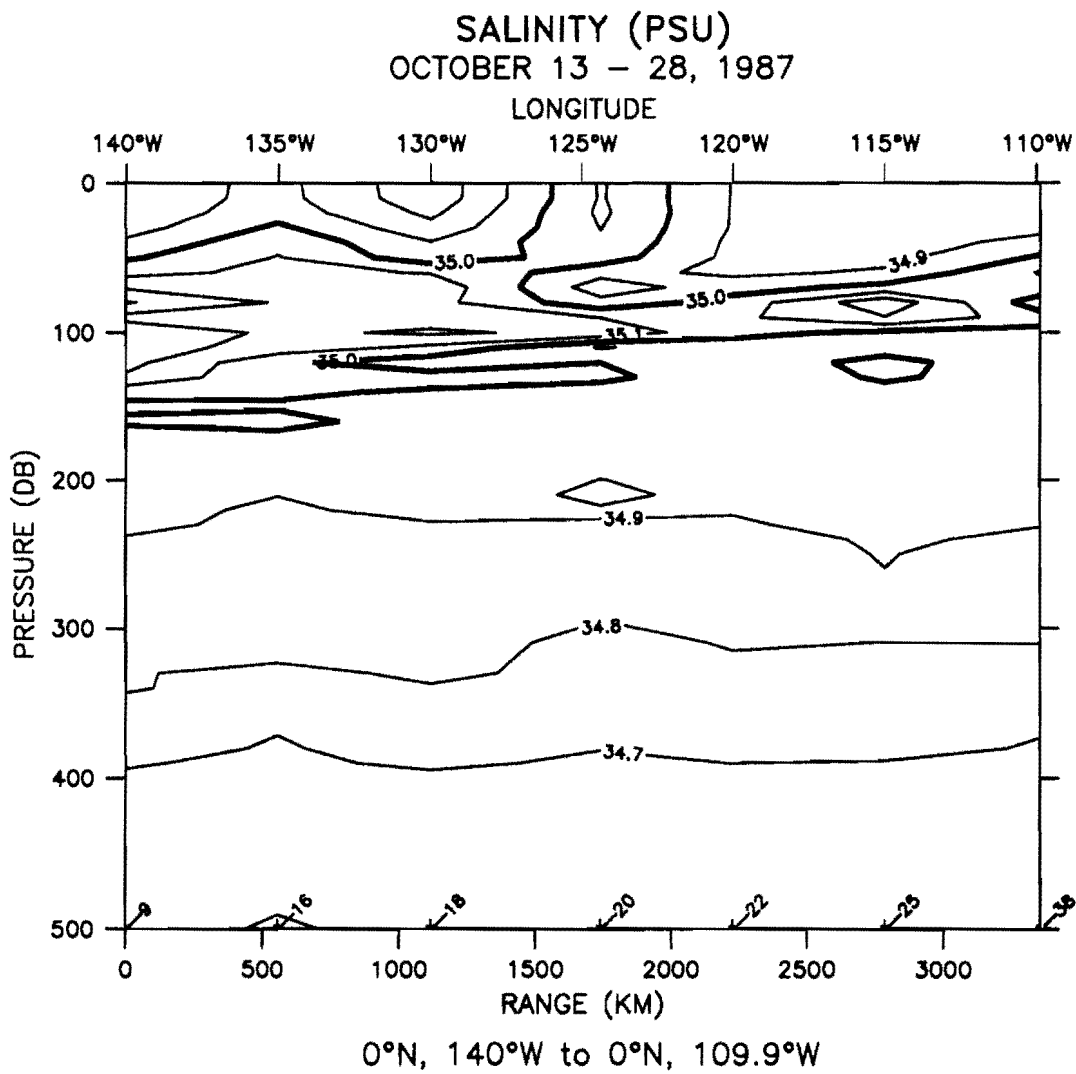


Fig. 16. EP2-87-OC fall salinity (psu) section along the equator. Contour interval is 0.1 psu.

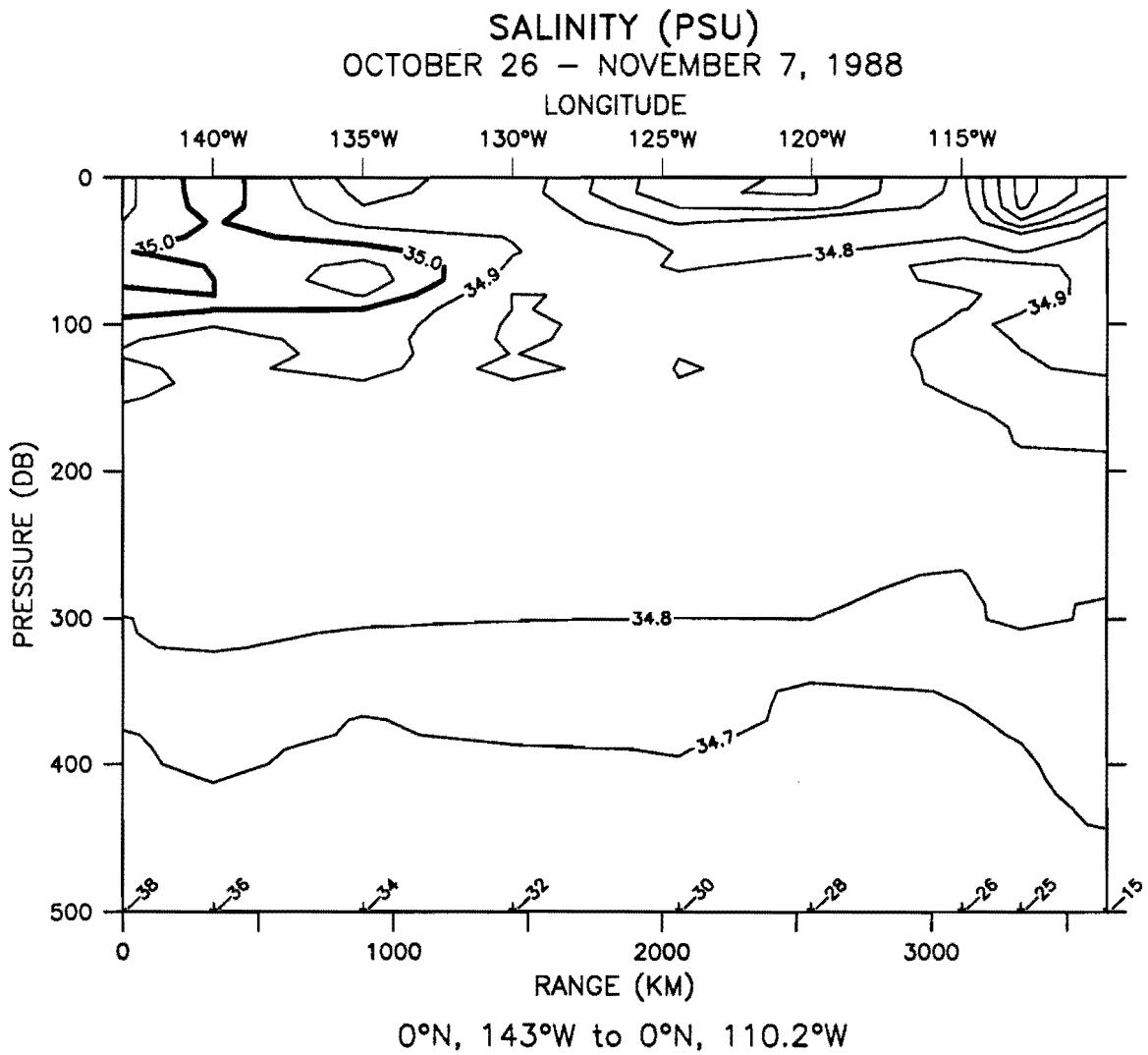


Fig. 17. EP4-88-OC fall salinity (psu) section along the equator. Contour interval is 0.1 psu.

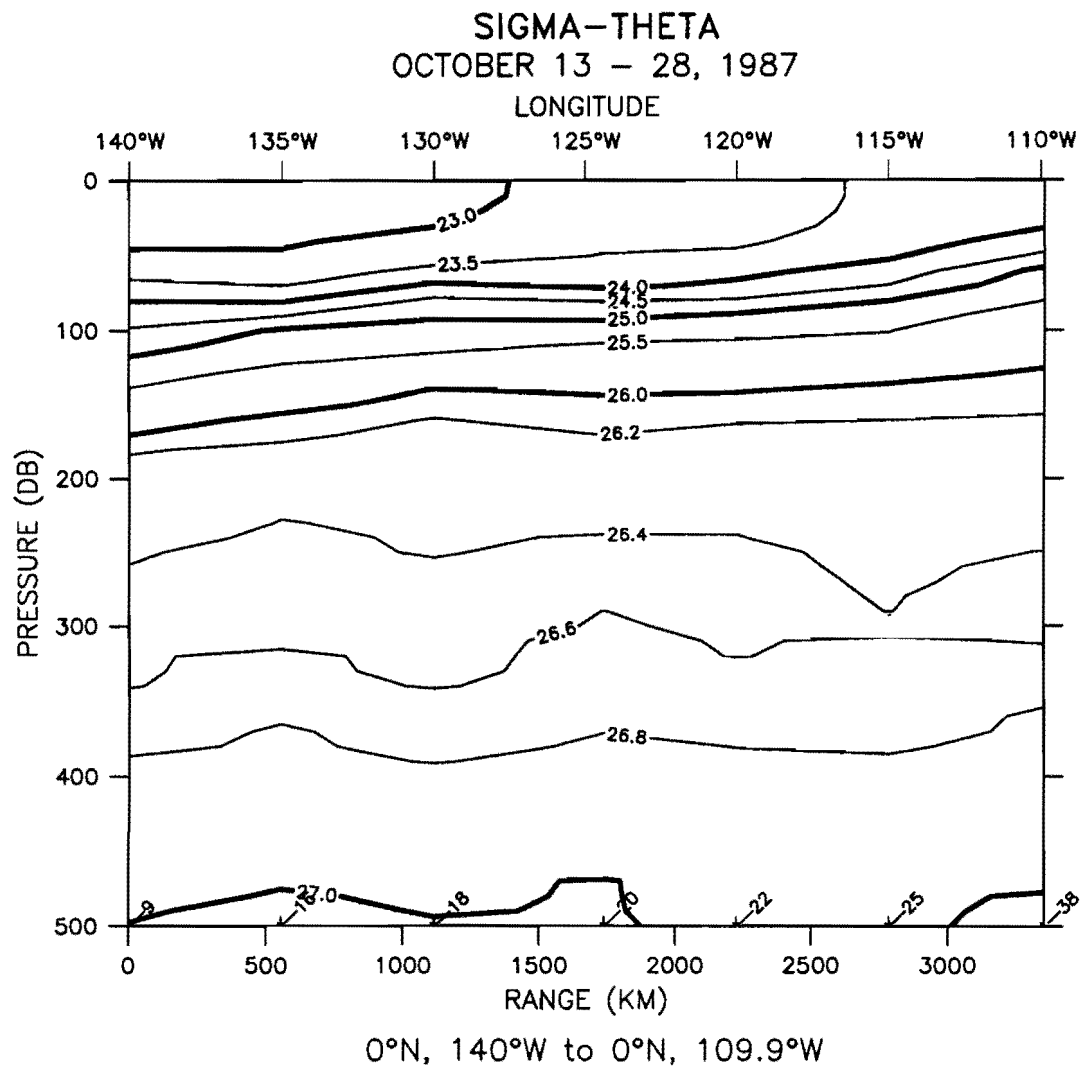


Fig. 18. EP2-87-OC fall potential density (kg/m^3) section along the equator. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

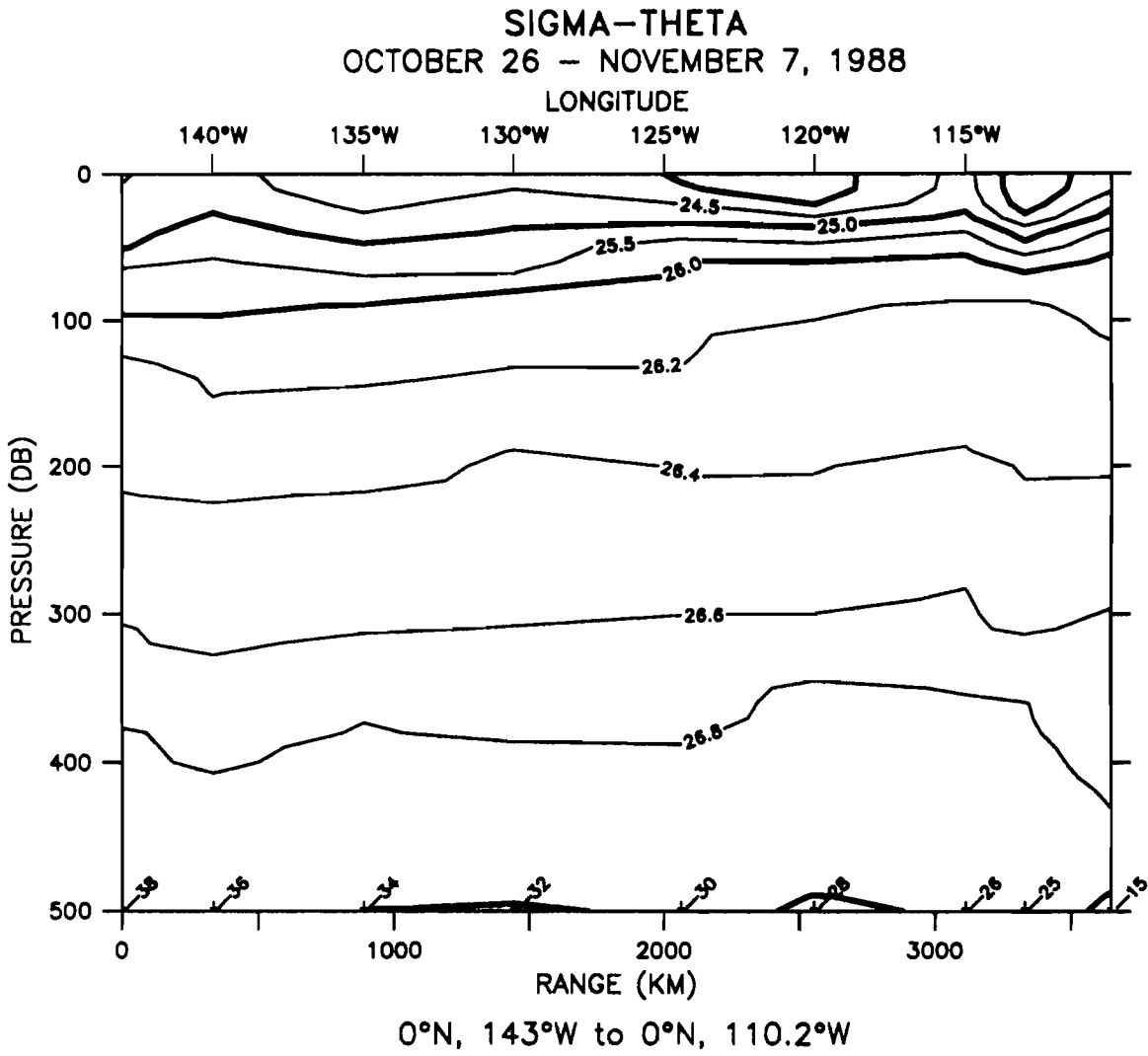


Fig. 19. EP4-88-OC fall potential density (kg/m^3) section along the equator. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

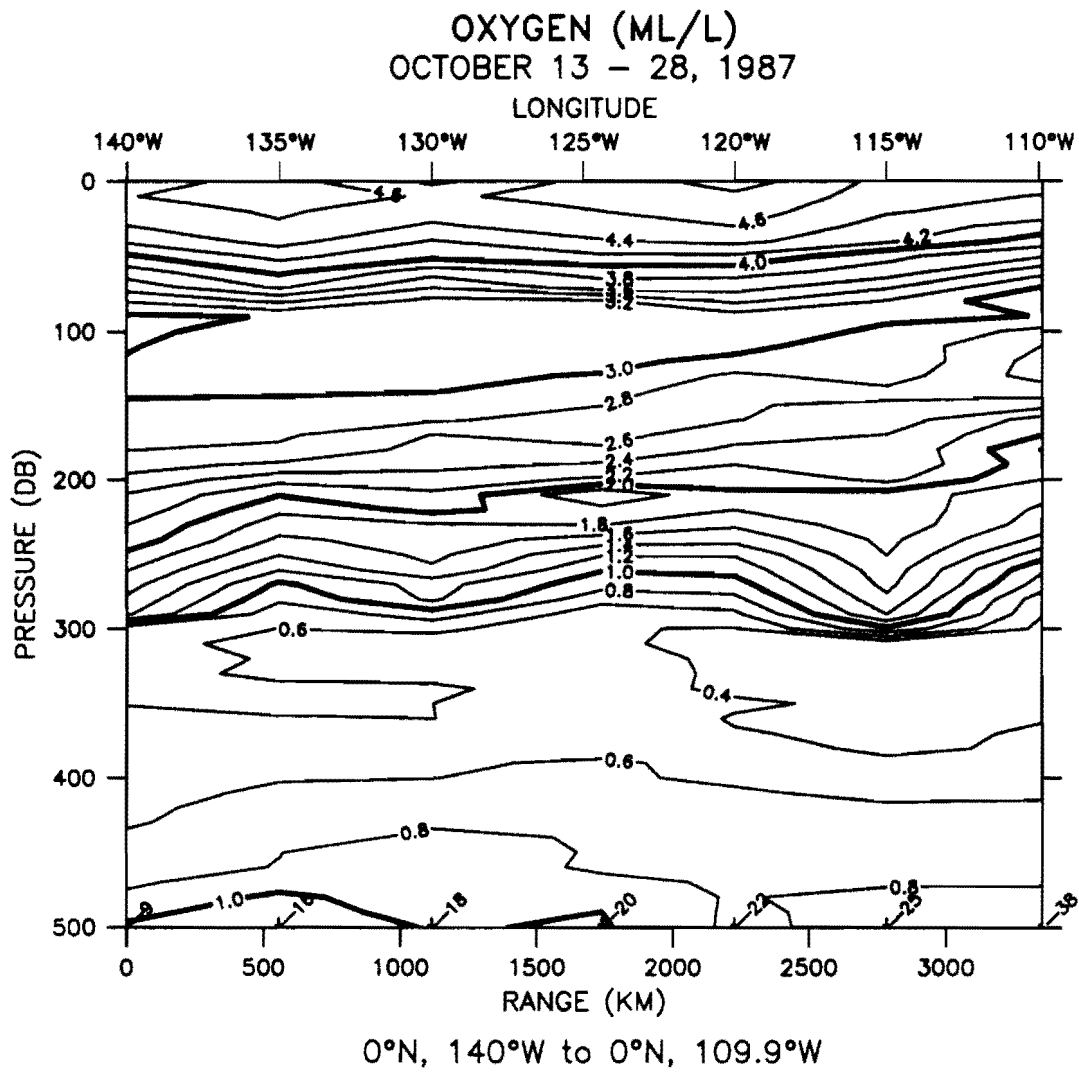
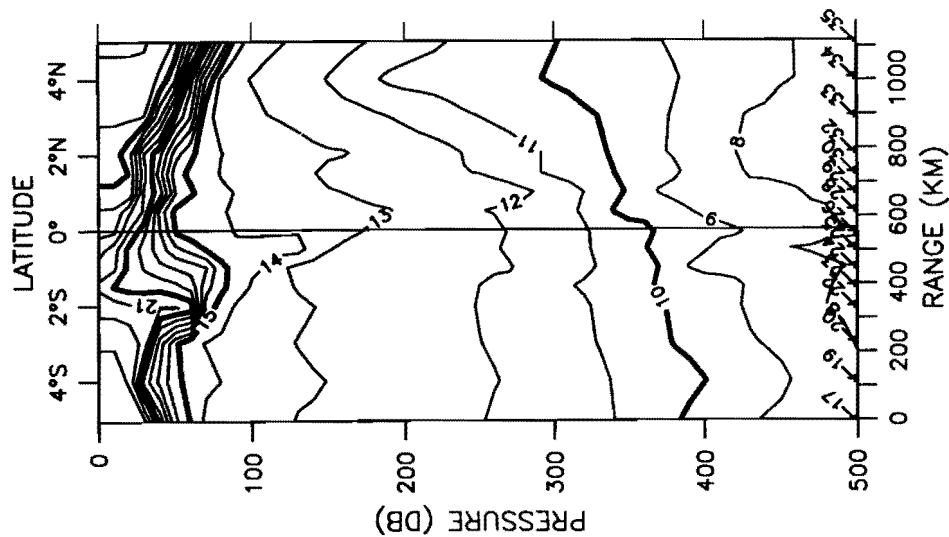


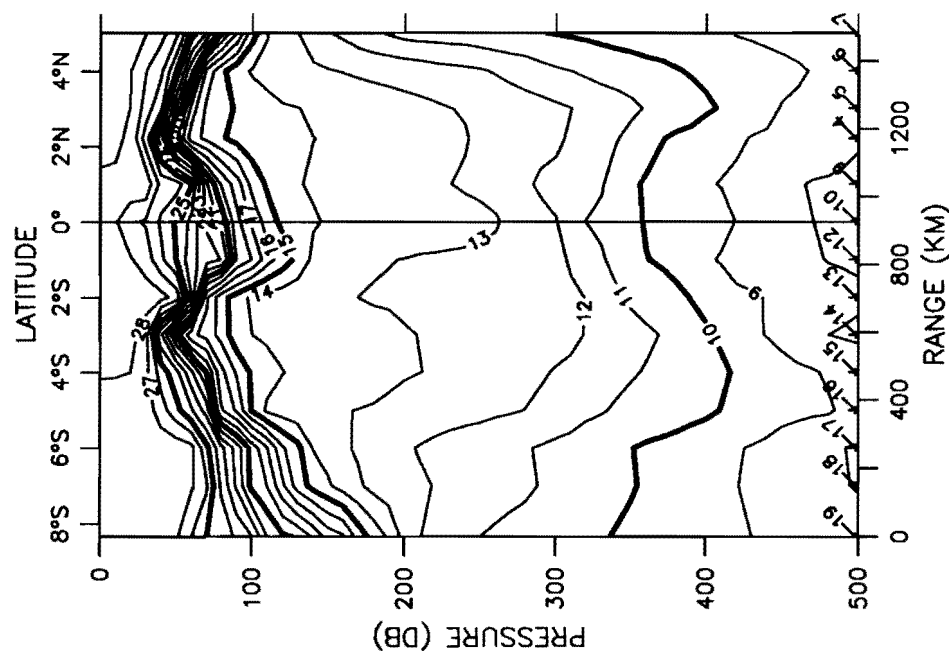
Fig. 20. EP2-87-OC fall oxygen (ml/l) section along the equator. Contour interval is 0.2 ml/l.

POTENTIAL TEMPERATURE (°C)
 JUNE 28 - JULY 5, 1988



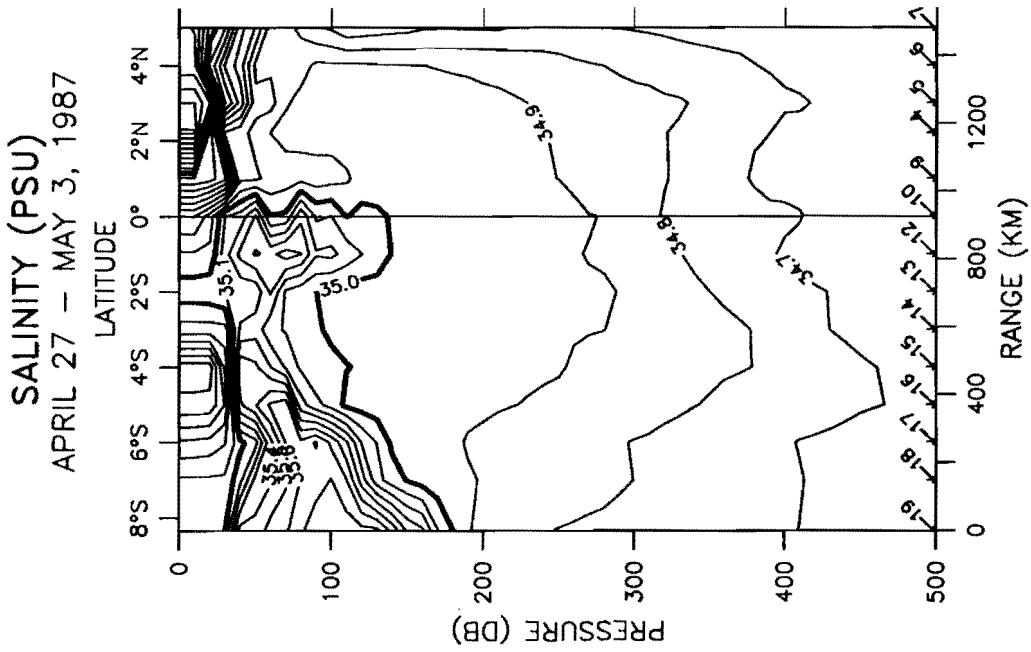
5.1°S, 109.8°W to 5°N, 110°W

POTENTIAL TEMPERATURE (°C)
 APRIL 27 - MAY 3, 1987

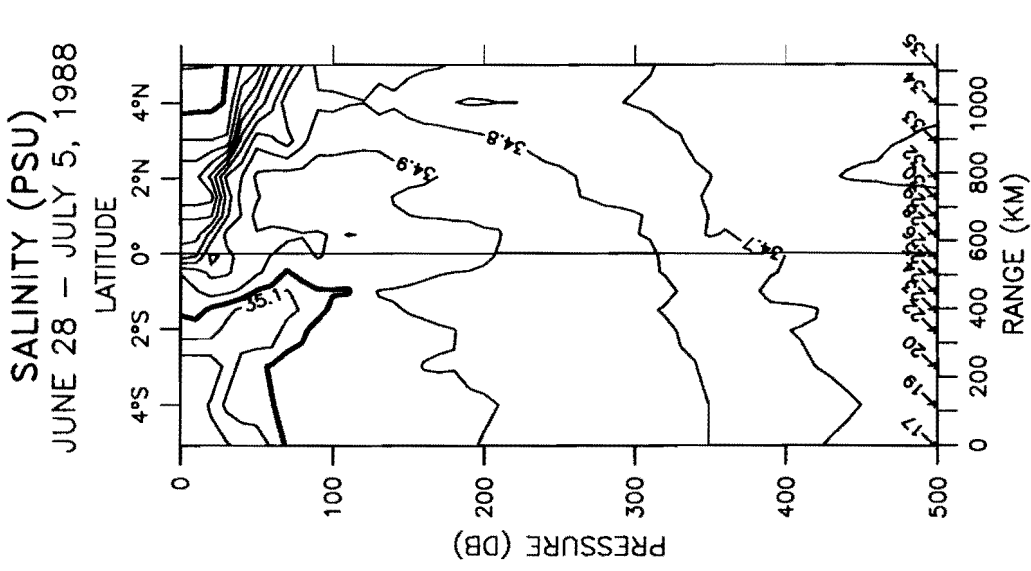


8.3°S, 109.3°W to 5°N, 110.1°W

Fig. 21. EPI-87-RS spring and EP2-88-OC summer potential temperature (C) sections along 110°W. Contour interval is 1°C.



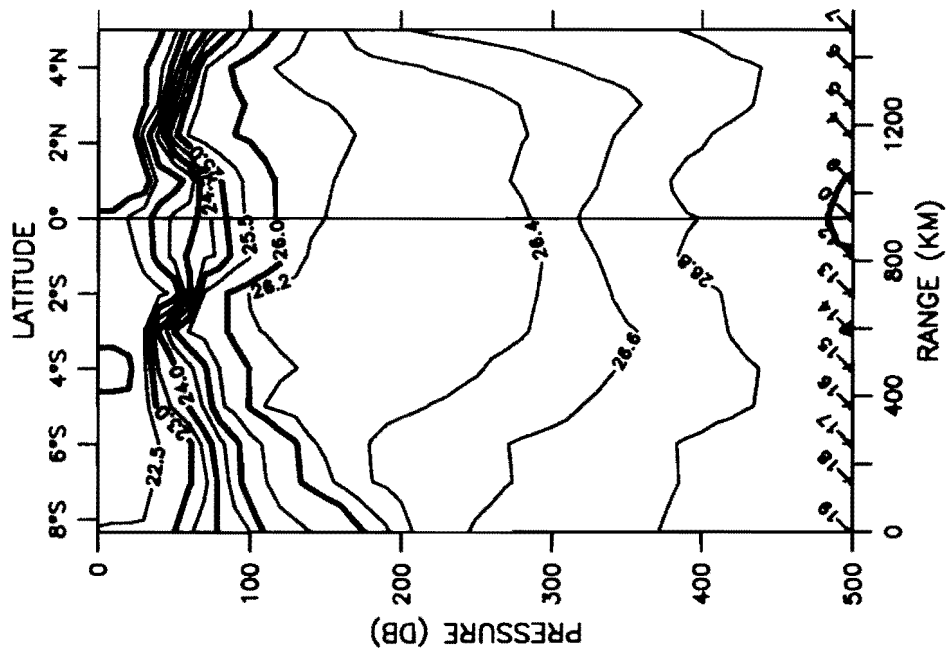
8.3°S, 109.3°W to 5°N, 110.1°W



5.1°S, 109.8°W to 5°N, 110°W

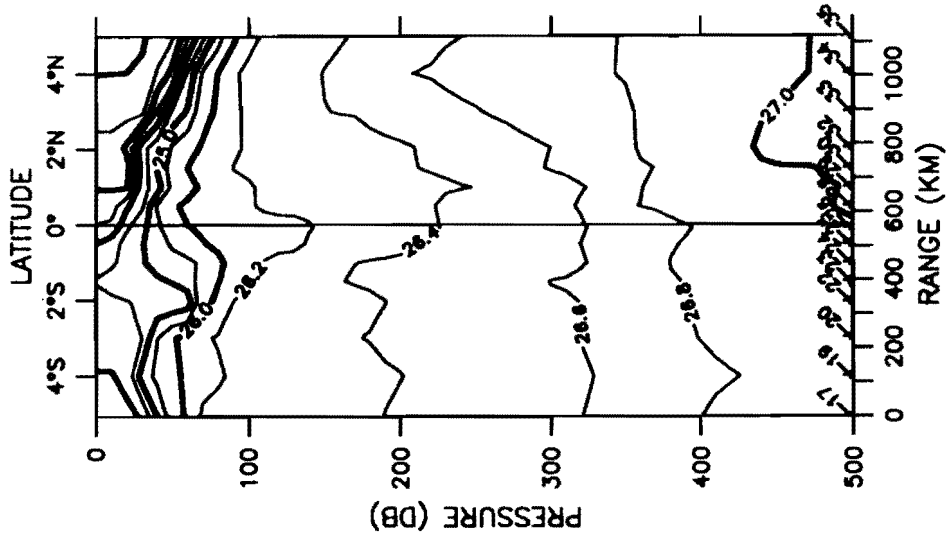
Fig. 22. EP1-87-RS spring and EP2-88-OC summer salinity (psu) sections along 110°W. Contour interval is 0.1 psu.

SIGMA-THETA
APRIL 27 - MAY 3, 1987



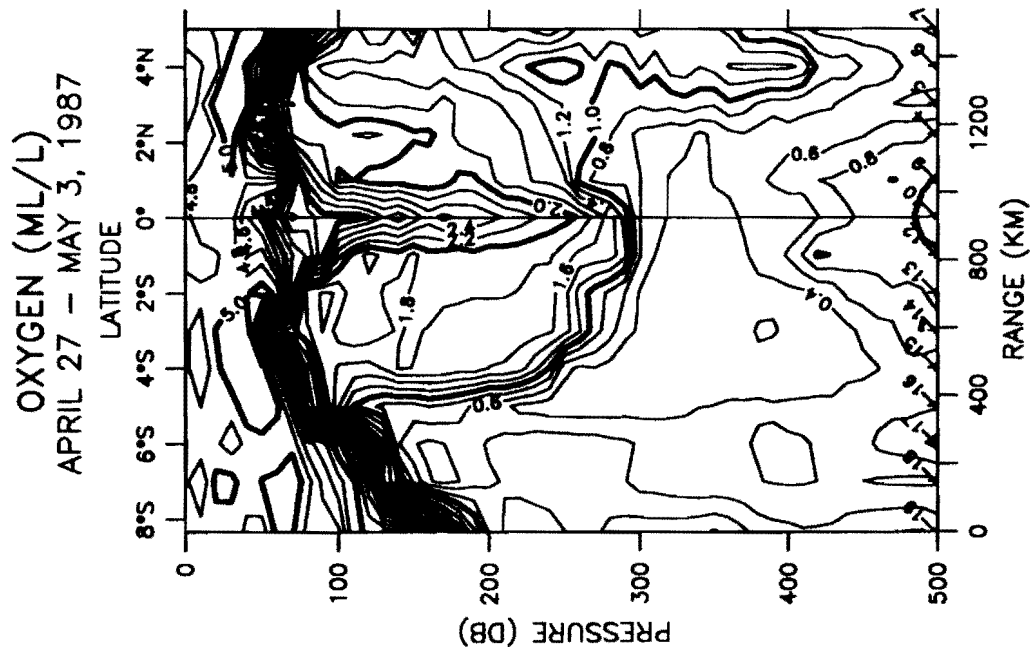
8.3°S, 109.3°W to 5°N, 110.1°W

SIGMA-THETA
JUNE 28 - JULY 5, 1988

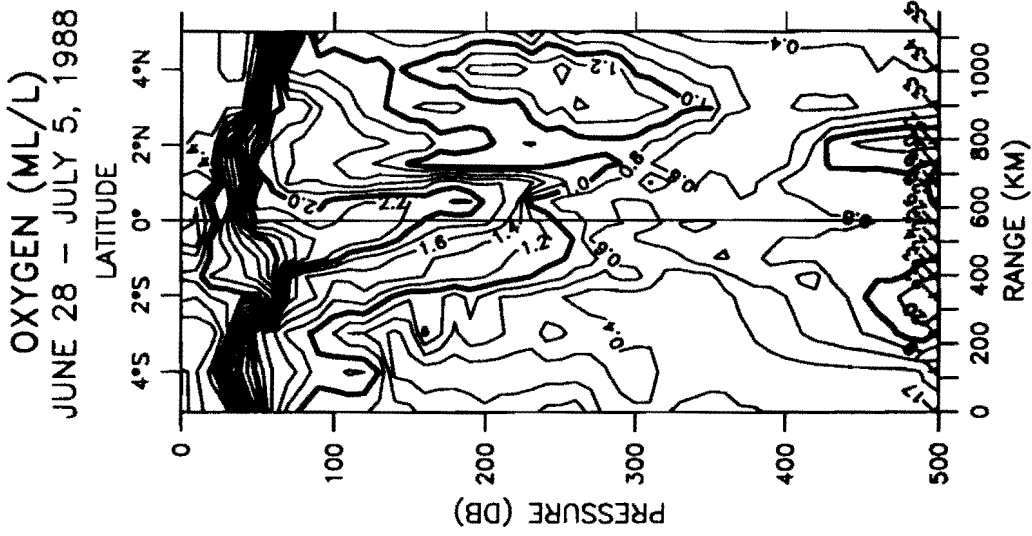


5.1°S, 109.8°W to 5°N, 110°W

Fig. 23. EP1-87-RS spring and EP2-88-OC summer potential density (kg/m^3) sections along 110°W . Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.



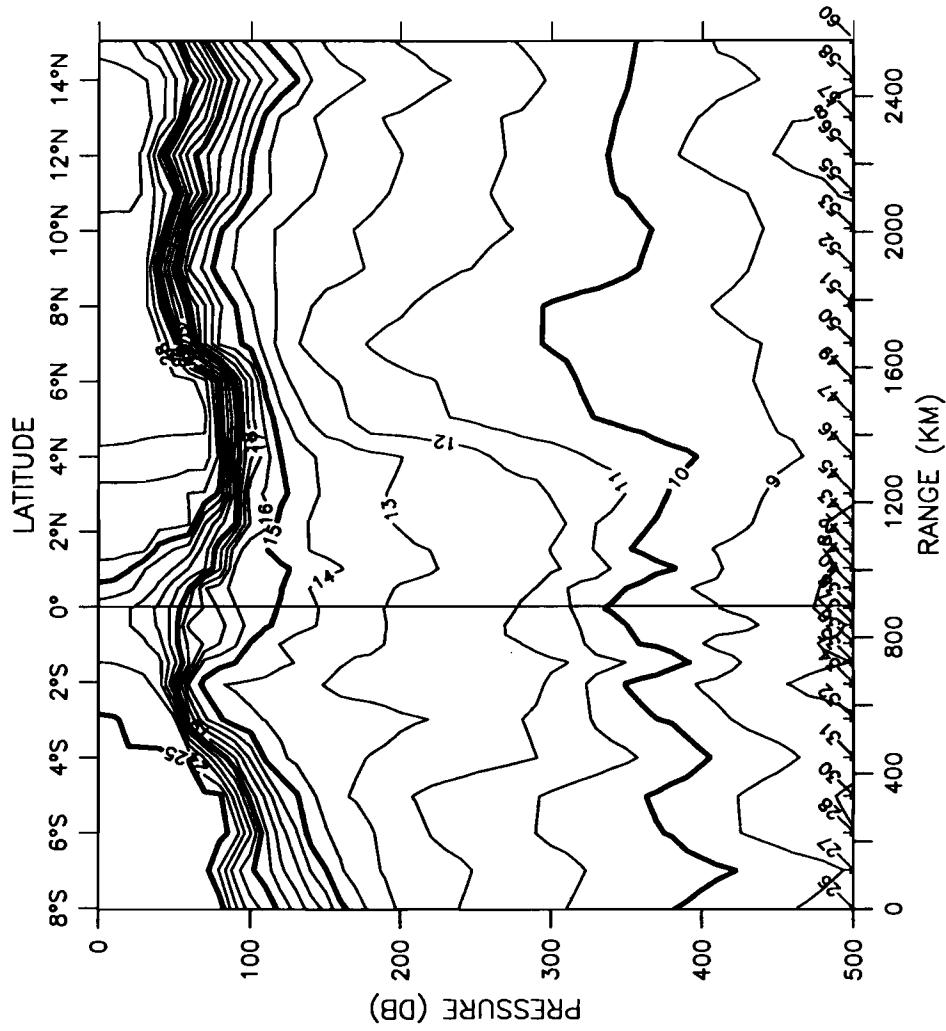
8.3°S, 109.3°W to 5°N, 110.1°W



5.1°S, 109.8°W to 5°N, 110°W

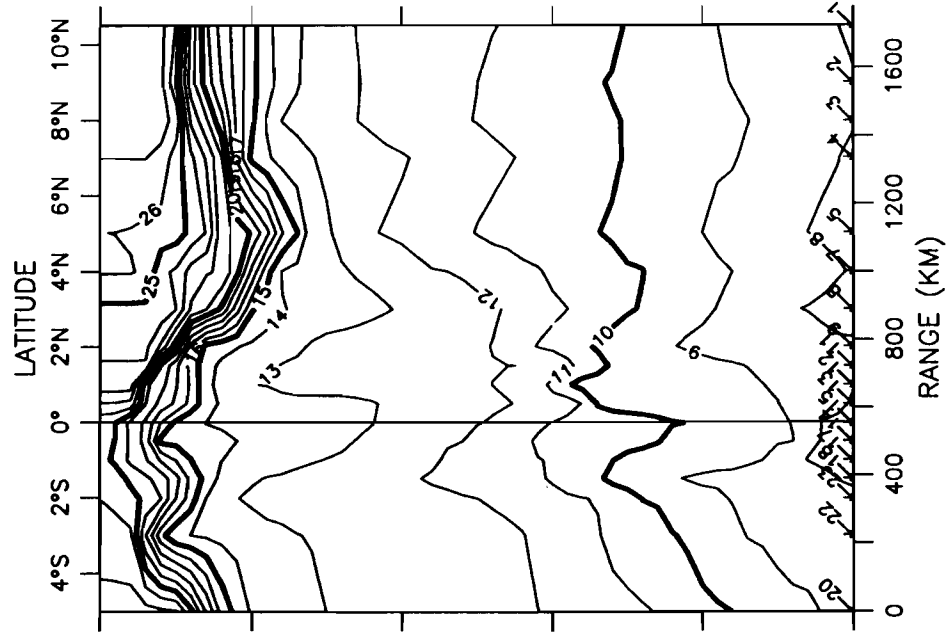
Fig. 24. EP1-87-RS spring and EP2-88-OC summer oxygen (ml/l) sections along 110°W. Contour interval is 0.2 ml/l.

POTENTIAL TEMPERATURE (°C)
OCTOBER 23 - NOVEMBER 3, 1987



8°S, 109.9°W to 15°N, 110°W

POTENTIAL TEMPERATURE (°C)
OCTOBER 22 - 30, 1988



5°S, 110°W to 10.5°N, 109.3°W

Fig. 25. EP2-87-OC and EP4-88-OC fall potential temperature (C) sections along 110°W. Contour interval is 1°C.

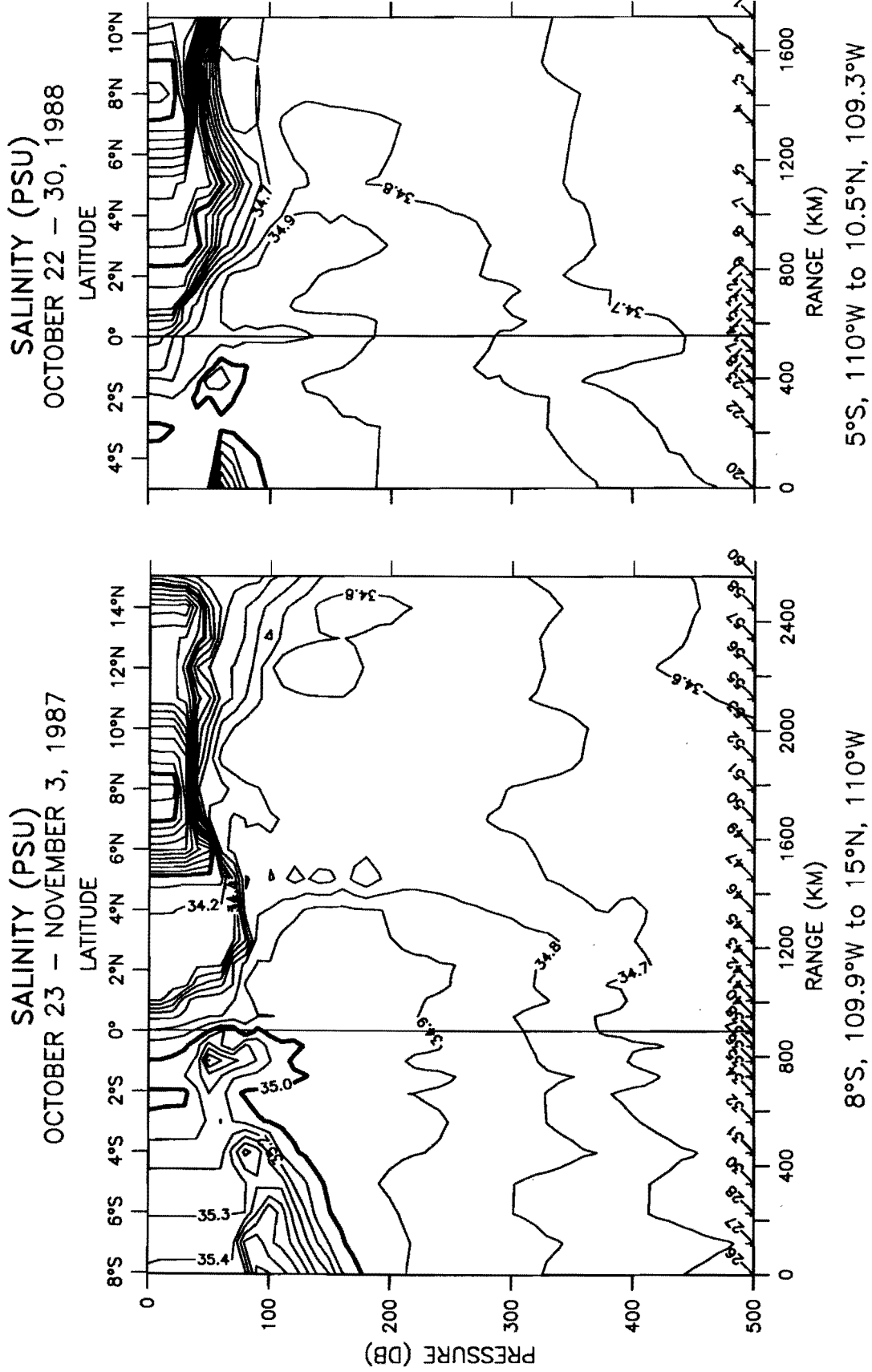


Fig. 26. EP2-87-OC and EP4-88-OC fall salinity (psu) sections along 110°W. Contour interval is 0.1 psu.

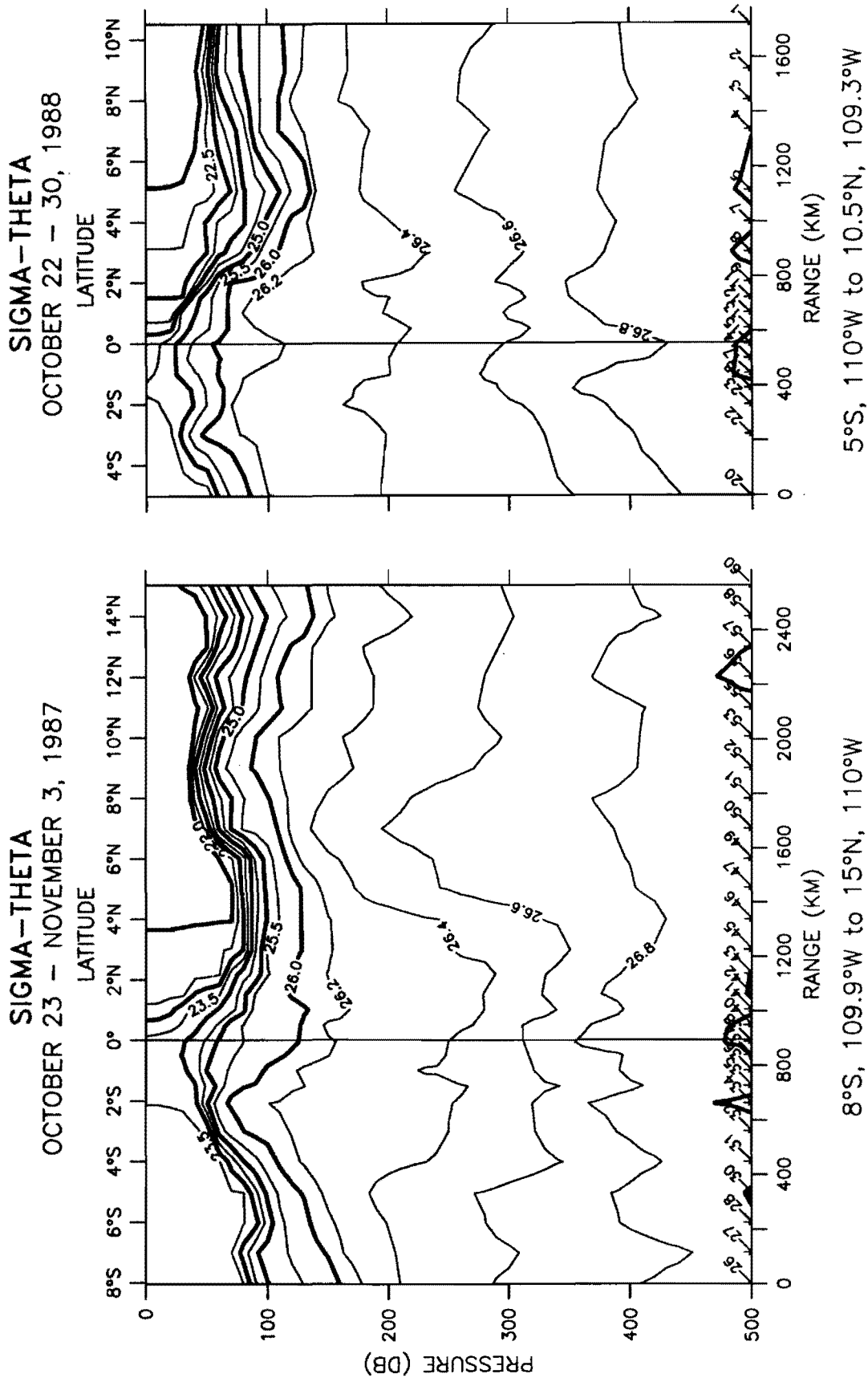


Fig. 27. EP2-87-OC and EP4-88-OC fall potential density (kg/m^3) sections along 110°W . Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

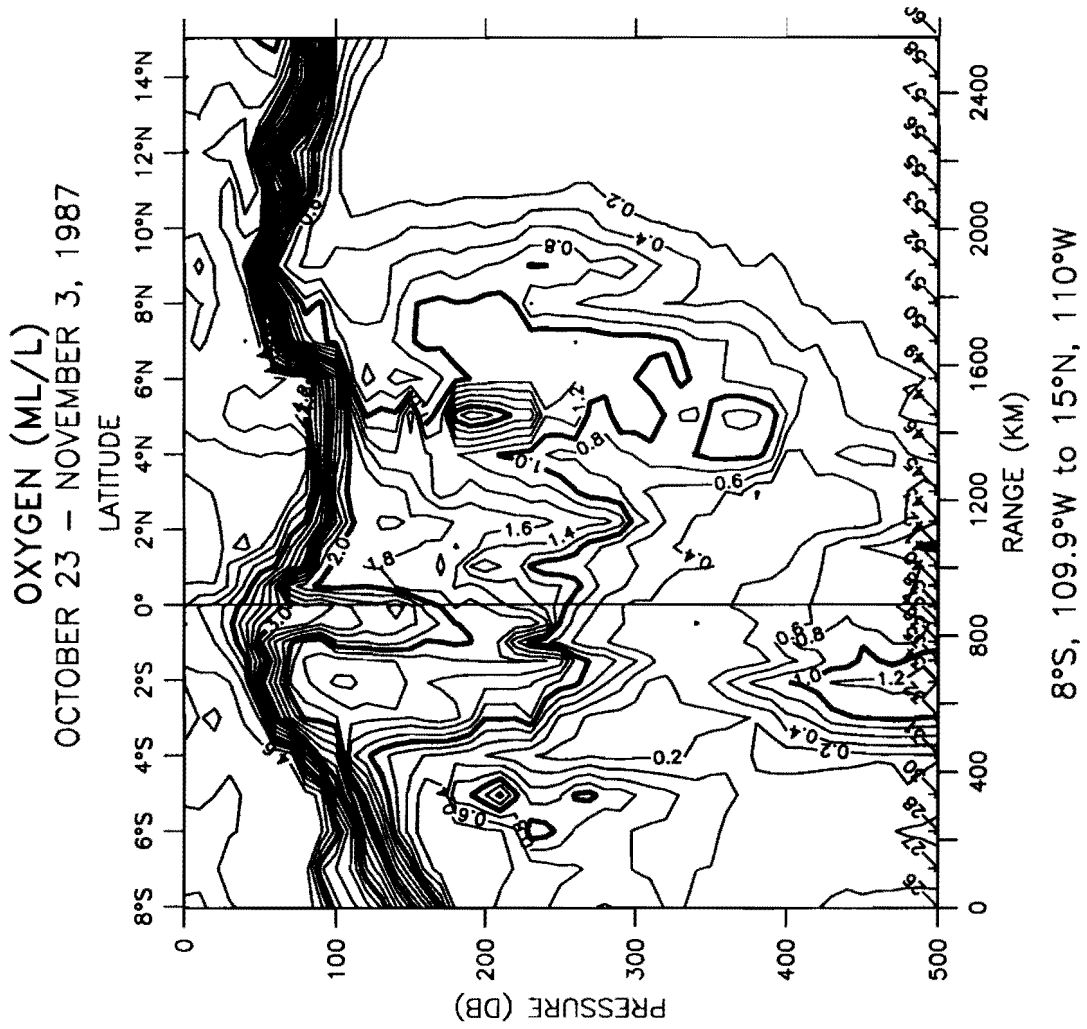
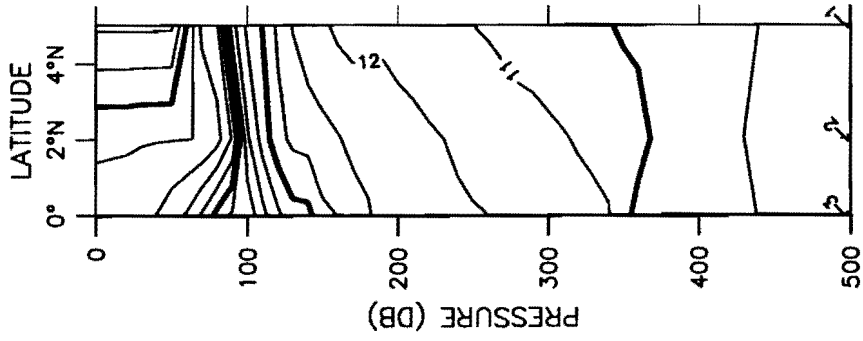


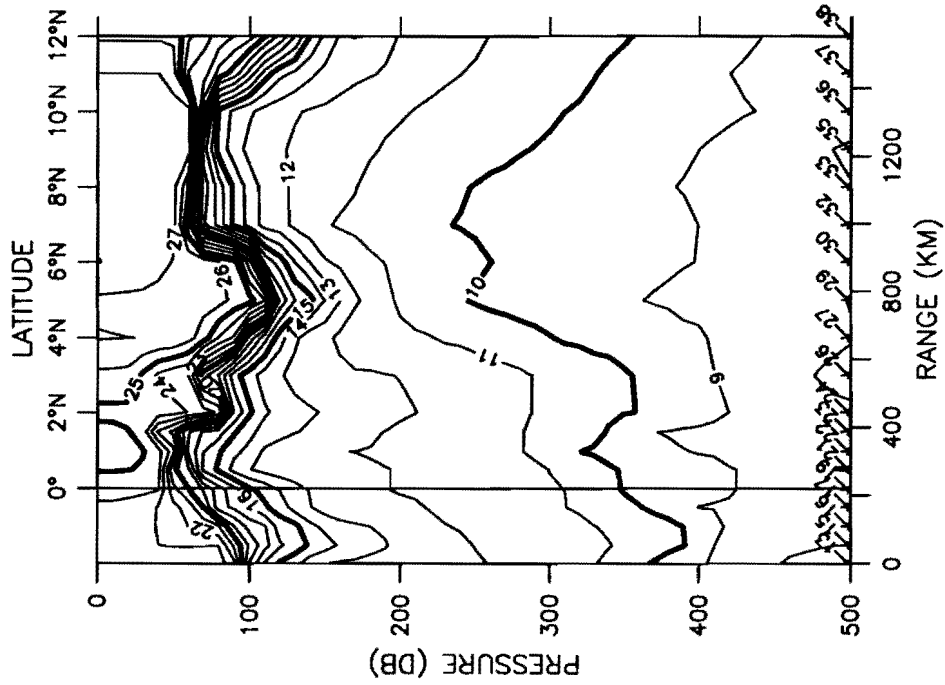
Fig. 28. EP2-87-OC fall oxygen (ml/l) section along 110°W. Contour interval is 0.2 ml/l. CTD oxygen data were not collected on EP4-88-OC.

POTENTIAL TEMPERATURE (°C)
JUNE 21 - 22, 1988



0°N, 139.8°W to 5°N, 140°W

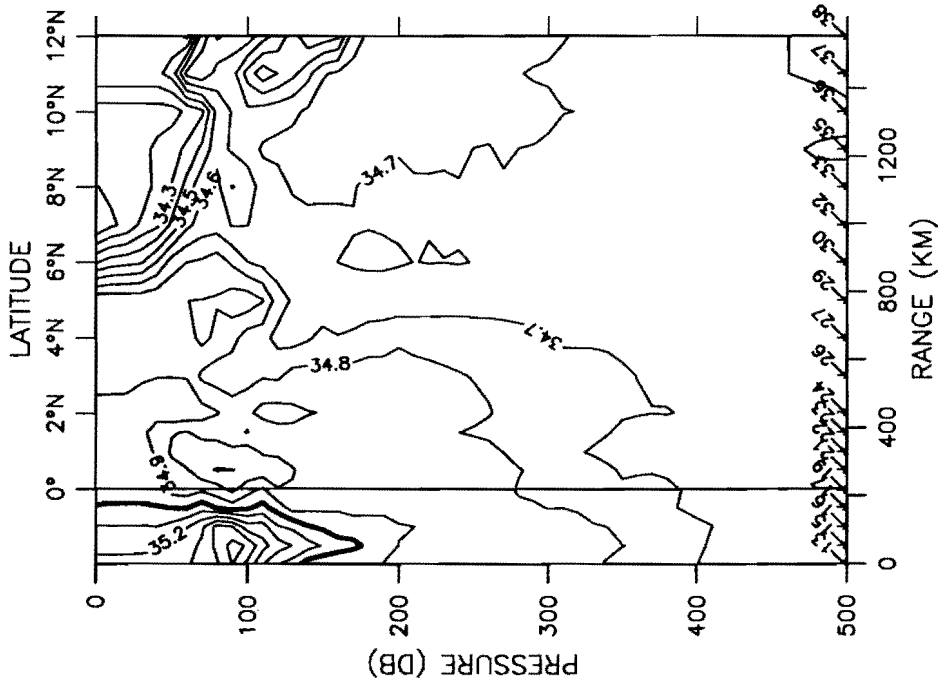
POTENTIAL TEMPERATURE (°C)
MAY 21 - 31, 1988



2°S, 140°W to 12°N, 140°W

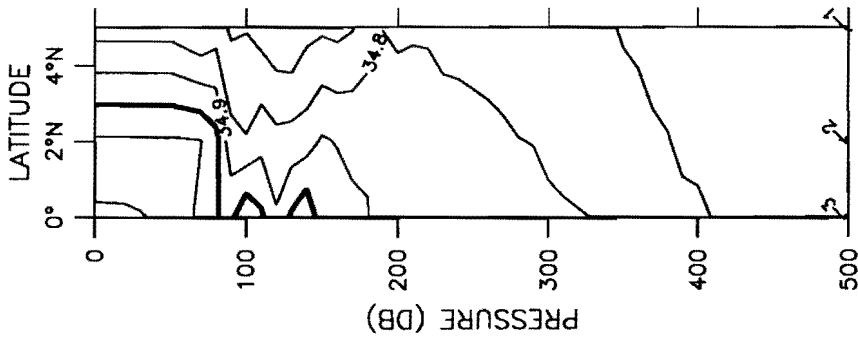
Fig. 29. EP1-88-OC spring and EP2-88-OC summer potential temperature (C) sections along 140°W. Contour interval is 1°C.

SALINITY (PSU)
MAY 21 - 31, 1988



2°S, 140°W to 12°N, 140°W

SALINITY (PSU)
JUNE 21 - 22, 1988

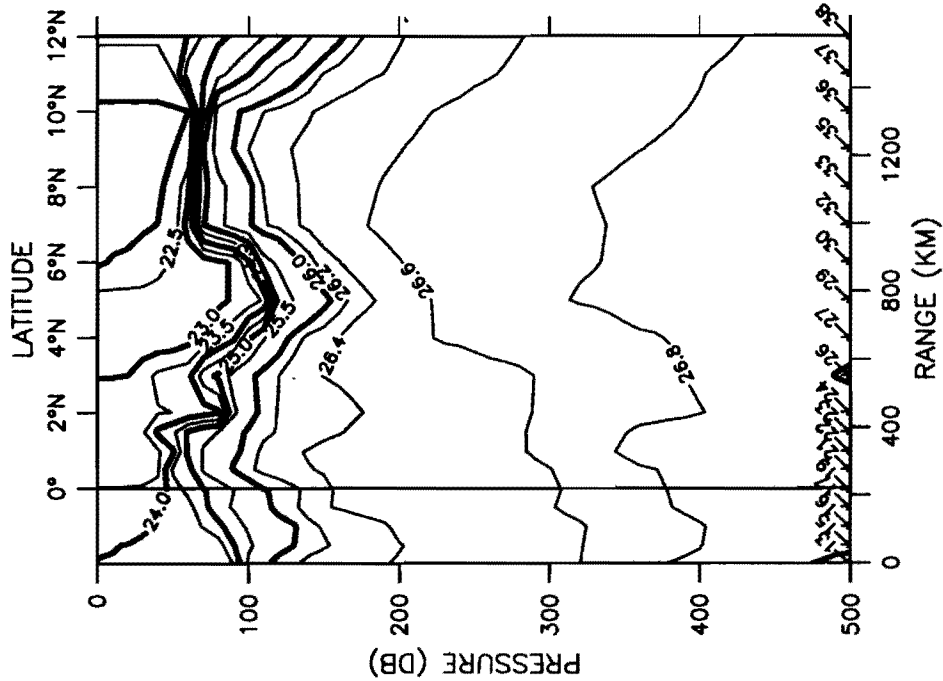


0°N, 139.8°W to 5°N, 140°W

Fig. 30. EP1-88-OC spring and EP2-88-OC summer salinity (psu) sections along 140°W. Contour interval is 0.1 psu.

SIGMA-THETA

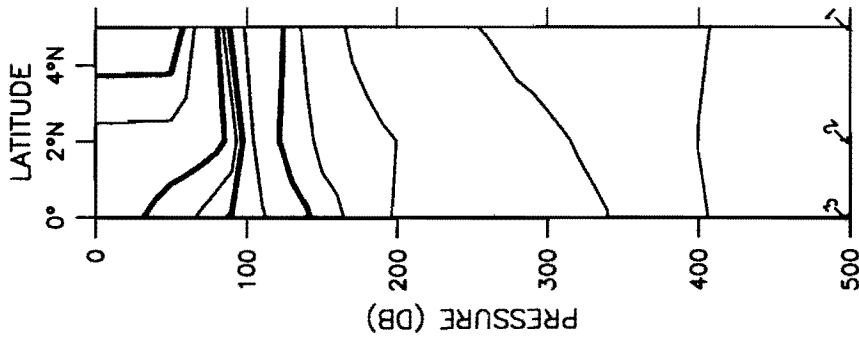
MAY 21 - 31, 1988



2°S, 140°W to 12°N, 140°W

SIGMA-THETA

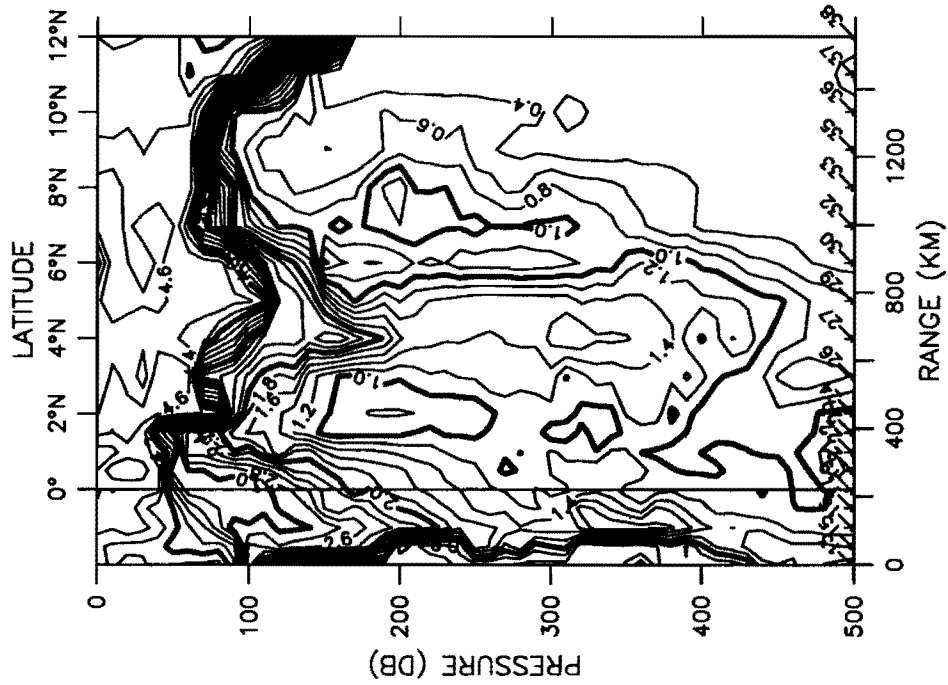
JUNE 21 - 22, 1988



0°N, 139.8°W to 5°N, 140°W

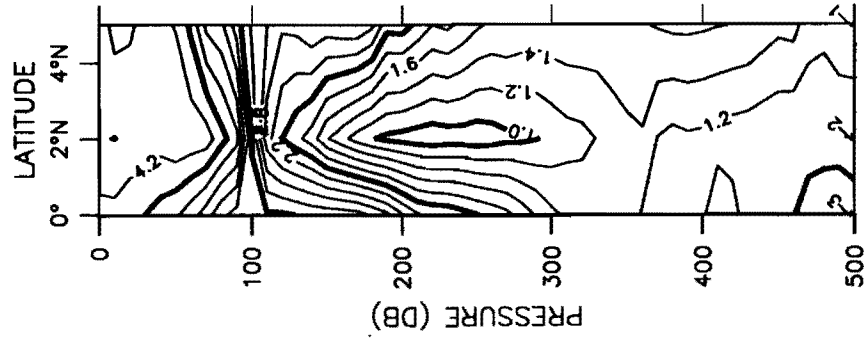
Fig. 31. EP1-88-OC spring and EP2-88-OC summer potential density (kg/m^3) sections along 140°W. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

OXYGEN (ML/L)
MAY 21 - 31, 1988



2°S, 140°W to 12°N, 140°W

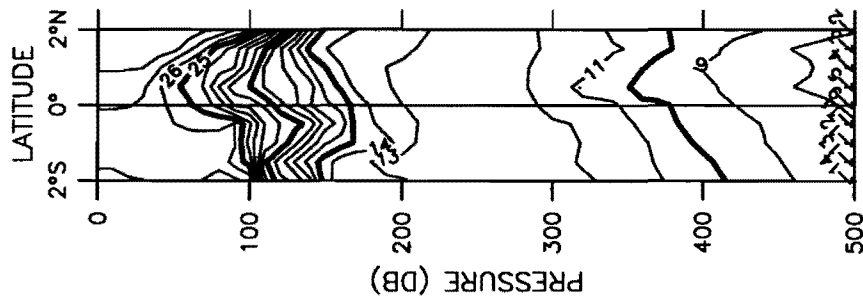
OXYGEN (ML/L)
JUNE 21 - 22, 1988



0°N, 139.8°W to 5°N, 140°W

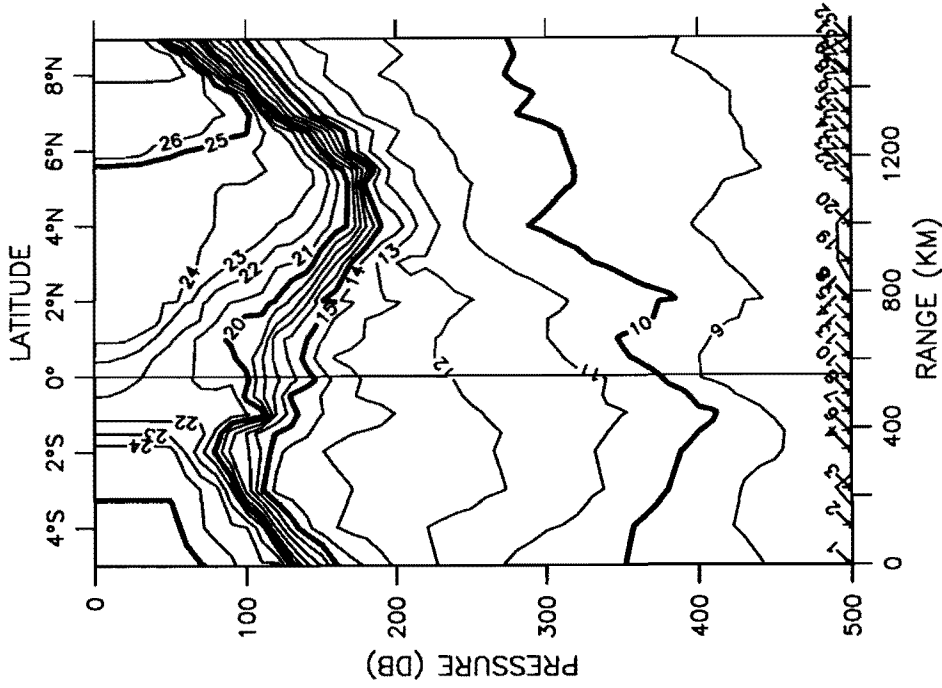
Fig. 32. EP1-88-OC spring and EP2-88-OC summer oxygen (ml/l) sections along 140°W. Contour interval is 0.2 ml/l.

POTENTIAL TEMPERATURE (°C)
OCTOBER 12 - 15, 1987



2°S, 140°W to 2°N, 140.1°W

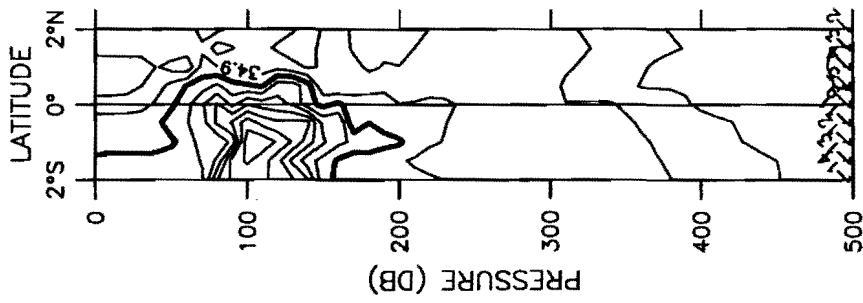
POTENTIAL TEMPERATURE (°C)
NOVEMBER 18 - 25, 1988



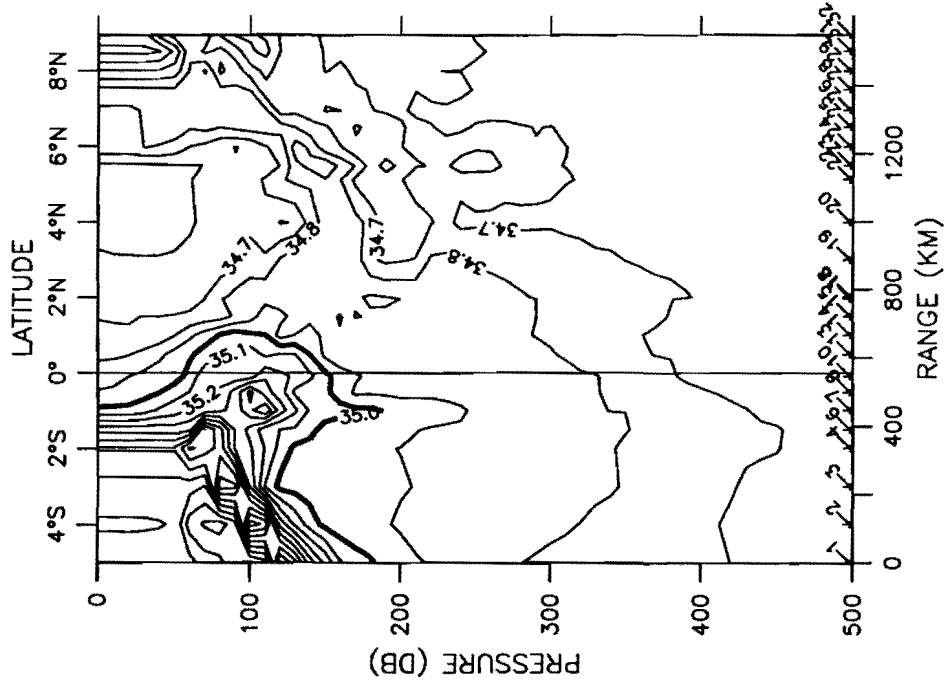
5°S, 140°W to 9°N, 140.1°W

Fig. 33. EP2-87-OC and EP5-88-OC fall potential temperature (C) sections along 140°W. Contour interval is 1°C.

SALINITY (PSU)
OCTOBER 12 - 15, 1987



SALINITY (PSU)
NOVEMBER 18 - 25, 1988

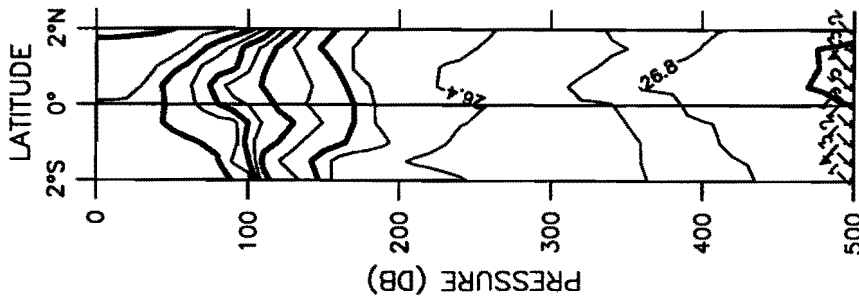


2°S, 140°W to 2°N, 140.1°W

5°S, 140°W to 9°N, 140.1°W

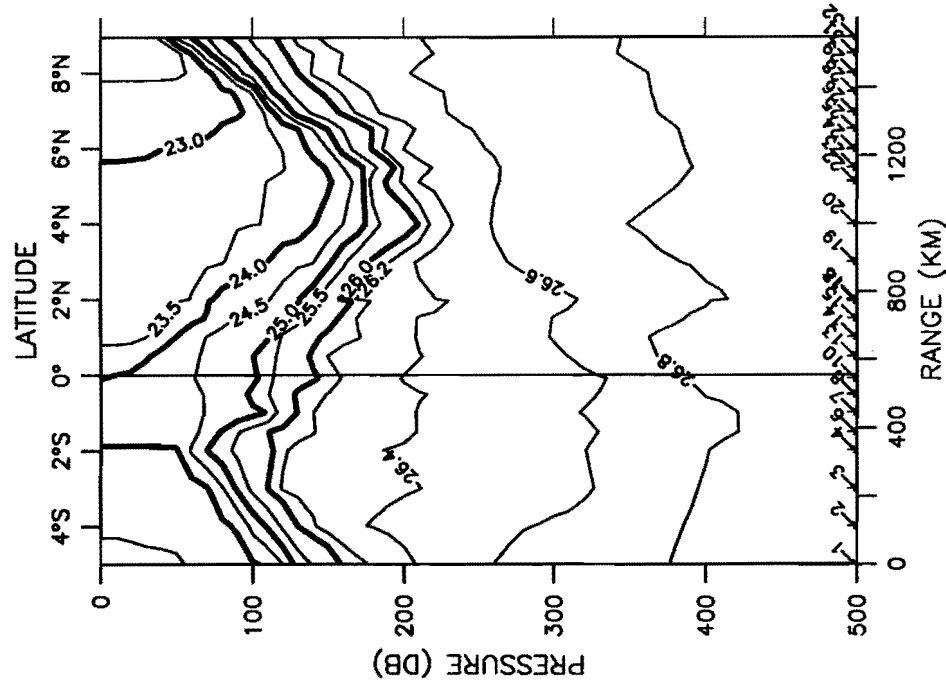
Fig. 34. EP2-87-OC and EP5-88-OC fall salinity (psu) sections along 140°W. Contour interval is 0.1 psu.

SIGMA-THETA
OCTOBER 12 - 15, 1987



2°S, 140°W to 2°N, 140.1°W

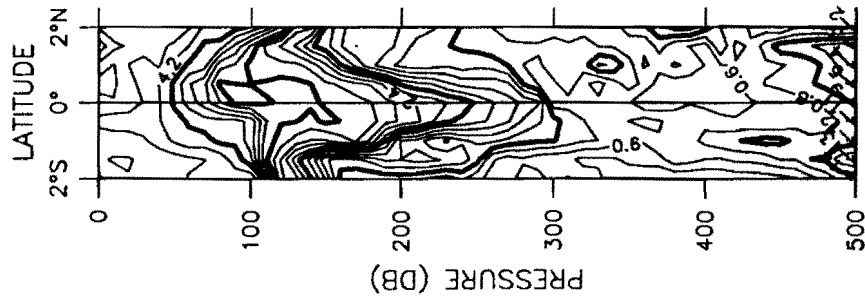
SIGMA-THETA
NOVEMBER 18 - 25, 1988



5°S, 140°W to 9°N, 140.1°W

Fig. 35. EP2-87-OC and EP5-88-OC fall potential density (kg/m^3) sections along 140°W. Contour interval is 0.5 less than 26.0 and 0.2 greater than 26.0.

OXYGEN (ML/L)
OCTOBER 12 - 15, 1987



2°S, 140°W to 2°N, 140.1°W

Fig. 36. EP2-87-OC fall oxygen (ml/l) section along 140°W. Contour interval is 0.2 ml/l. CTD oxygen data were not collected on EP5-88-OC.

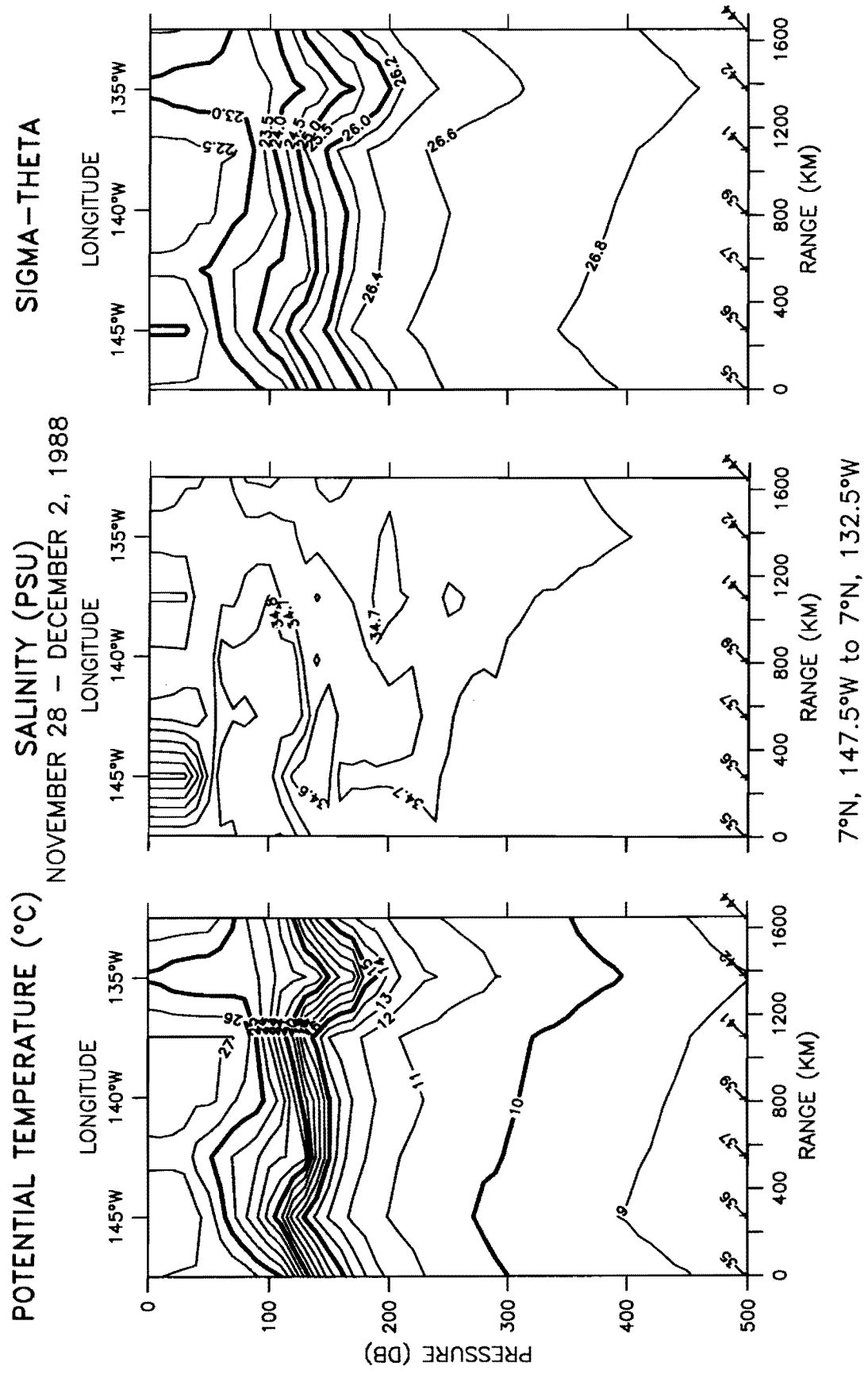
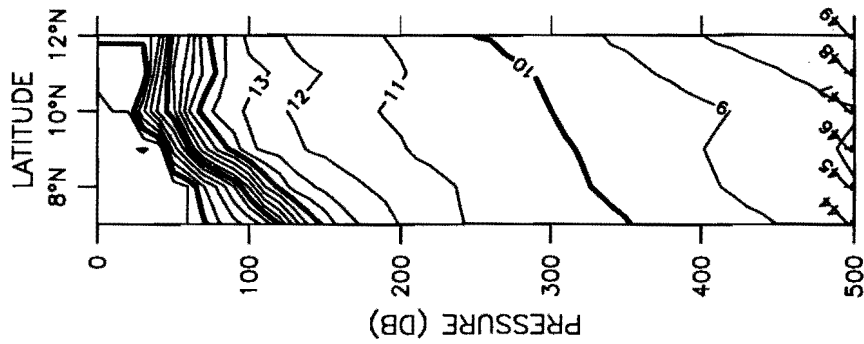
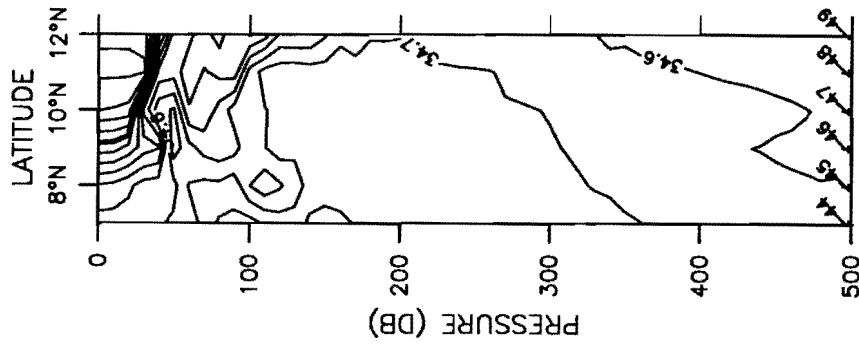


Fig. 37. EP5-88-OC fall potential temperature (C), salinity (psu), and potential density (kg/m³) sections along 7°N. Contour intervals are 1°C, 0.1 psu, and 0.5 kg/m³ less than 26.0 and 0.2 kg/m³ greater than 26.0.

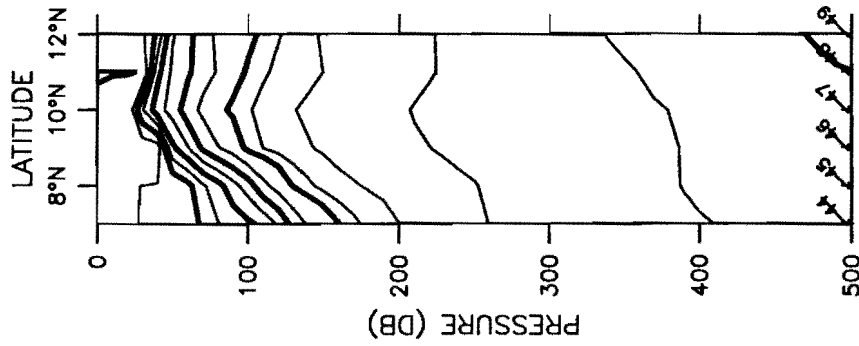
POTENTIAL TEMPERATURE (°C)
DECEMBER 2 - 3, 1988



SALINITY (PSU)
DECEMBER 2 - 3, 1988



SIGMA-THETA
DECEMBER 2 - 3, 1988



7°N, 132.5°W to 12°N, 131.7°W 7°N, 132.5°W to 12°N, 131.7°W 7°N, 132.5°W to 12°N, 131.7°W

Fig. 38. EP5-88-OC fall potential temperature (C), salinity (psu), and potential density (kg/m^3) sections along 132°W. Contour intervals are 1°C, 0.1 psu, and 0.5 kg/m^3 less than 26.0 and 0.2 kg/m^3 greater than 26.0.

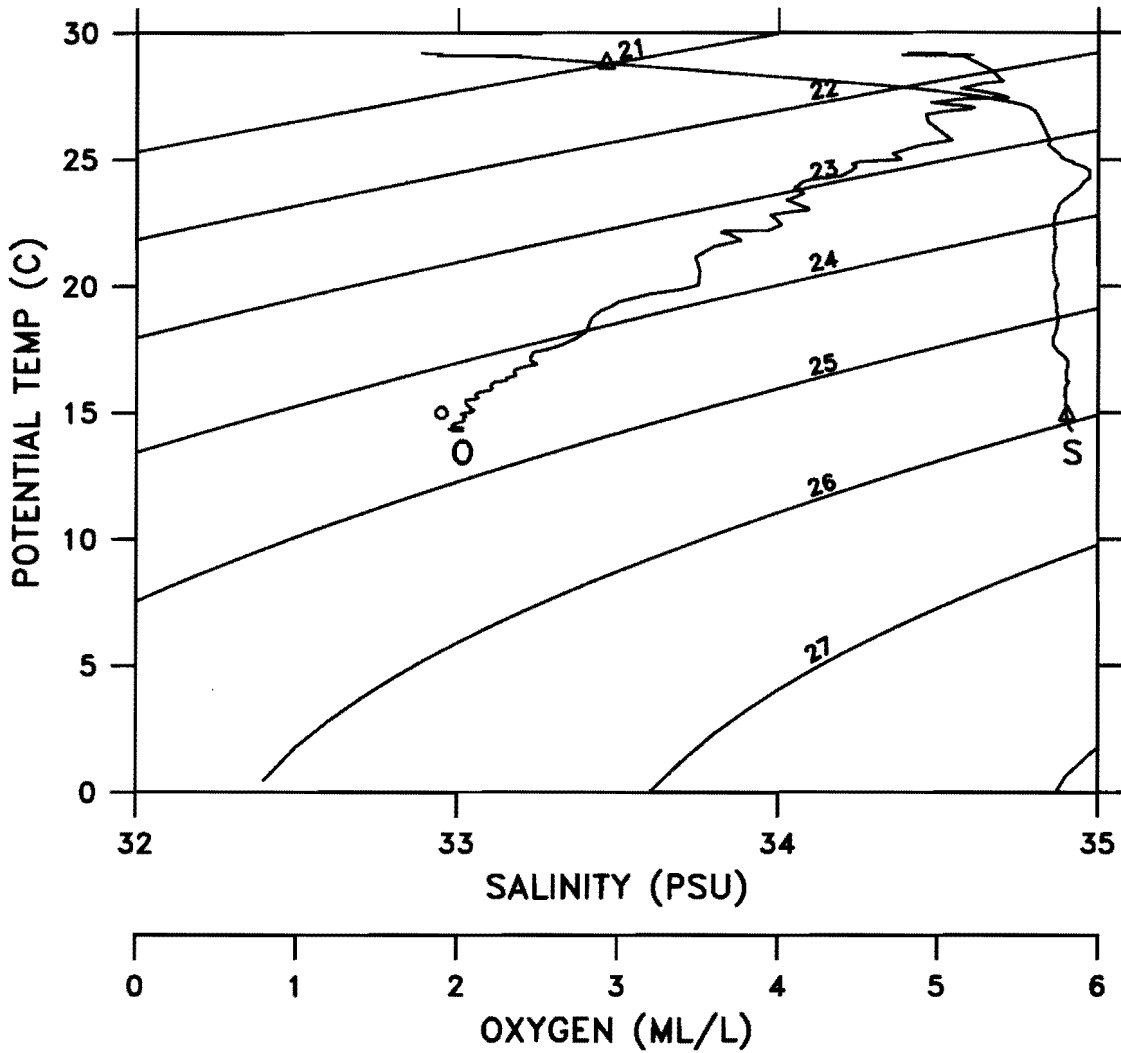
EP1-87-RS

April 20–May 17, 1987

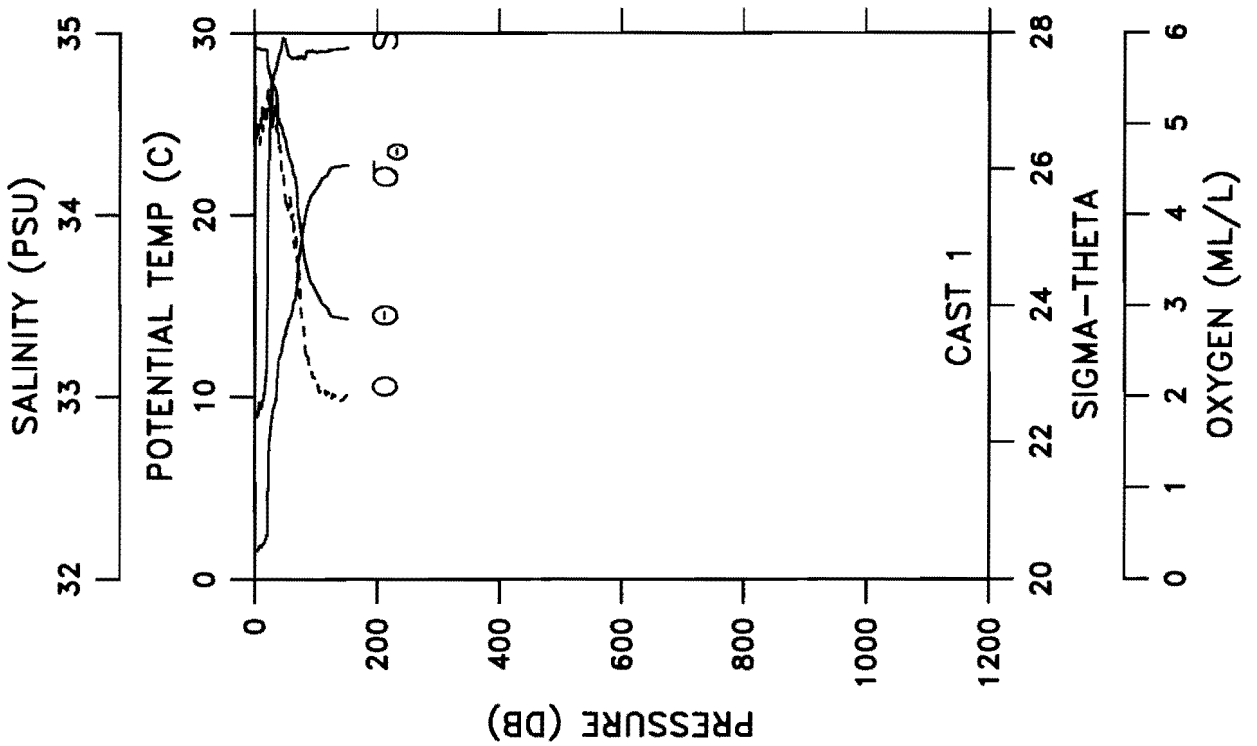
CTD/O₂ and Hydrographic Data Summary

CAST EP1-87-RS -001 DATE 25 APR 87 TIME 2033 GMT

LAT 00 54.5N LONG 105 34.5W

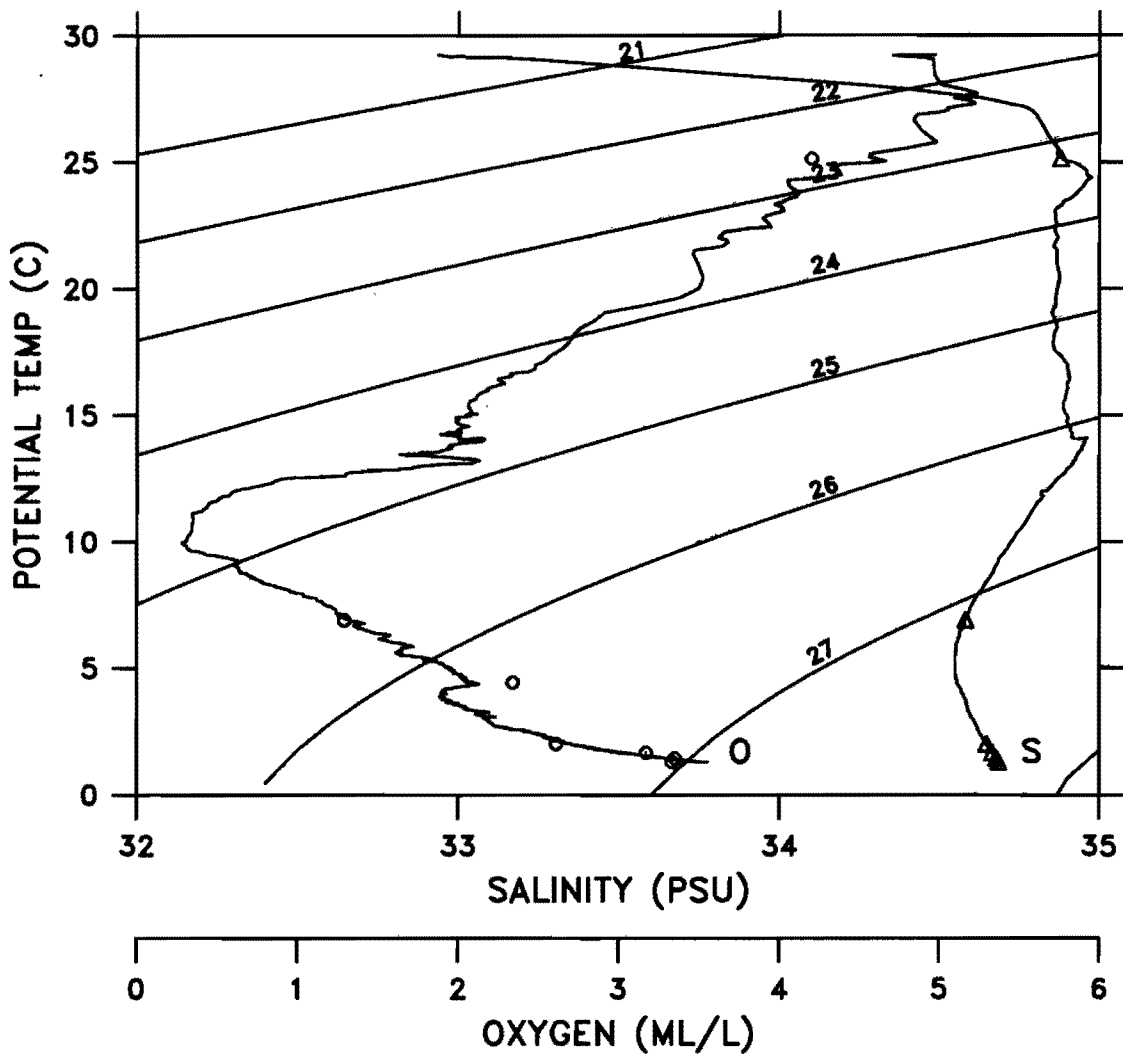


CAST EP1-87-RS -001 DATE 25 APR 87 TIME 2033 GMT
 LAT 00 54.5N LONG 105 34.5W WEATHER 2 SEA STATE 2
 BAROMETER 10 WIND DIR 267 T SPD 08 KT VISIBILITY 7
 CLOUD 4 AMOUNT 8 DRY 26.0 WET 24.0 DEPTH 3521 M

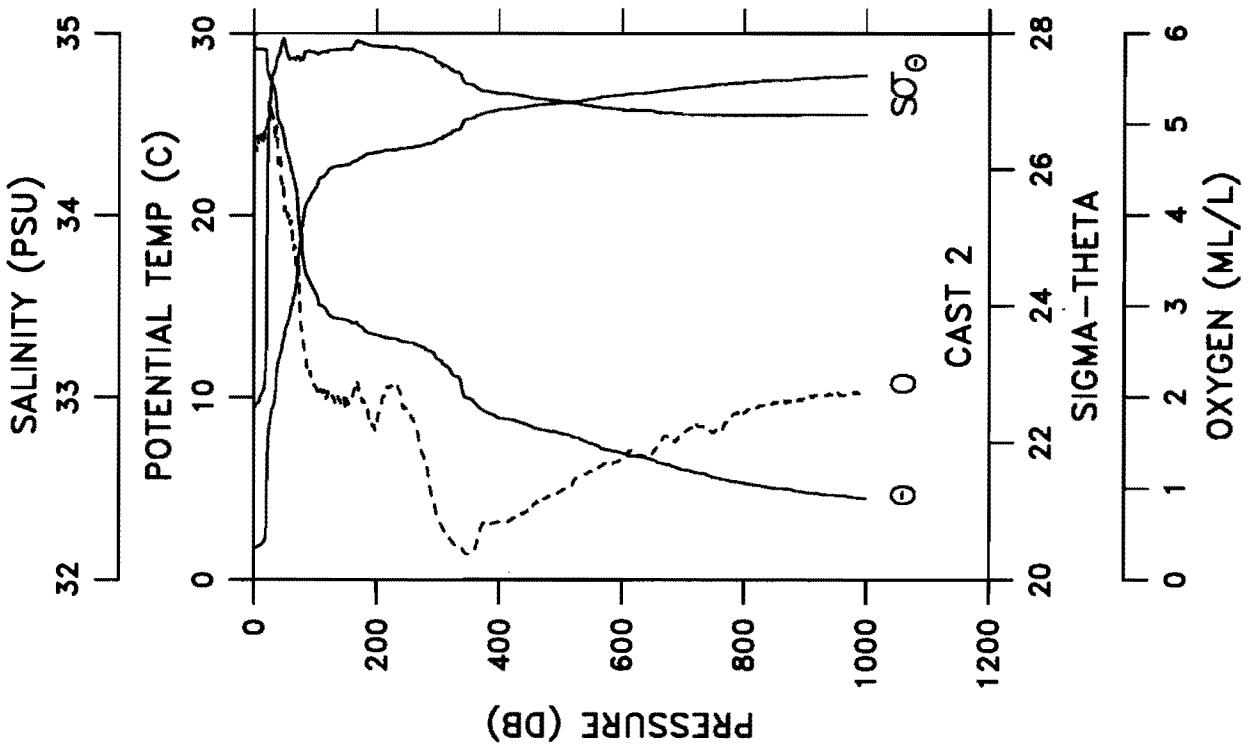


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.205 | 32.887 | 4.94 | 20.412 | 0.000 |
| 10 | 29.134 | 32.945 | 5.00 | 20.480 | 0.073 |
| 20 | 29.077 | 33.190 | 5.16 | 20.683 | 0.145 |
| 30 | 27.167 | 34.760 | 5.07 | 22.486 | 0.204 |
| 40 | 25.106 | 34.884 | 4.75 | 23.223 | 0.254 |
| 50 | 24.139 | 34.957 | 4.16 | 23.569 | 0.299 |
| 60 | 22.824 | 34.865 | 3.95 | 23.883 | 0.341 |
| 70 | 20.610 | 34.861 | 3.51 | 24.495 | 0.378 |
| 80 | 17.929 | 34.859 | 2.73 | 25.182 | 0.410 |
| 90 | 16.469 | 34.902 | 2.36 | 25.565 | 0.436 |
| 100 | 15.833 | 34.899 | 2.15 | 25.709 | 0.460 |
| 110 | 15.119 | 34.901 | 2.10 | 25.870 | 0.482 |
| 120 | 14.781 | 34.903 | 2.04 | 25.946 | 0.503 |
| 130 | 14.382 | 34.911 | 2.01 | 26.038 | 0.524 |
| 140 | 14.335 | 34.915 | 1.96 | 26.051 | 0.544 |
| 150 | 14.288 | 34.919 | 2.02 | 26.064 | 0.563 |
| 152 | 14.284 | 34.920 | 2.03 | 26.066 | 0.567 |

CAST EP1-87-RS -002 DATE 25 APR 87 TIME 0033 GMT
LAT 00 54.4N LONG 105 34.1W



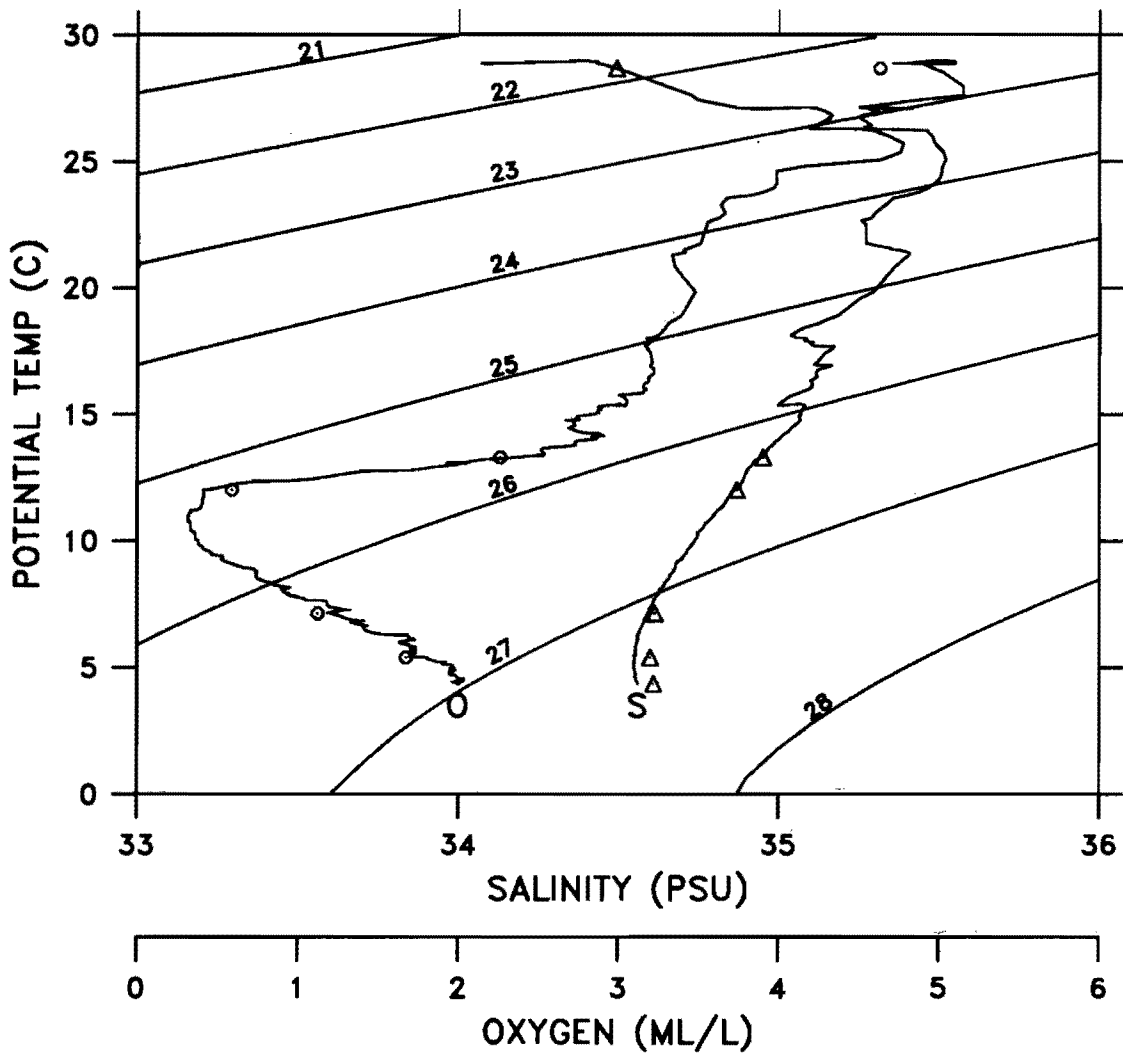
CAST EP1-87-RS -002 DATE 25 APR 87 TIME 0033 GMT
 LAT 00 54.4N LONG 105 34.1W WEATHER 3 SEA STATE 2
 BAROMETER 10 WIND DIR 350 T SPD 02 KT VISIBILITY 7
 CLOUD X AMOUNT DRY 26.0 WET 24.5 DEPTH 3584 M



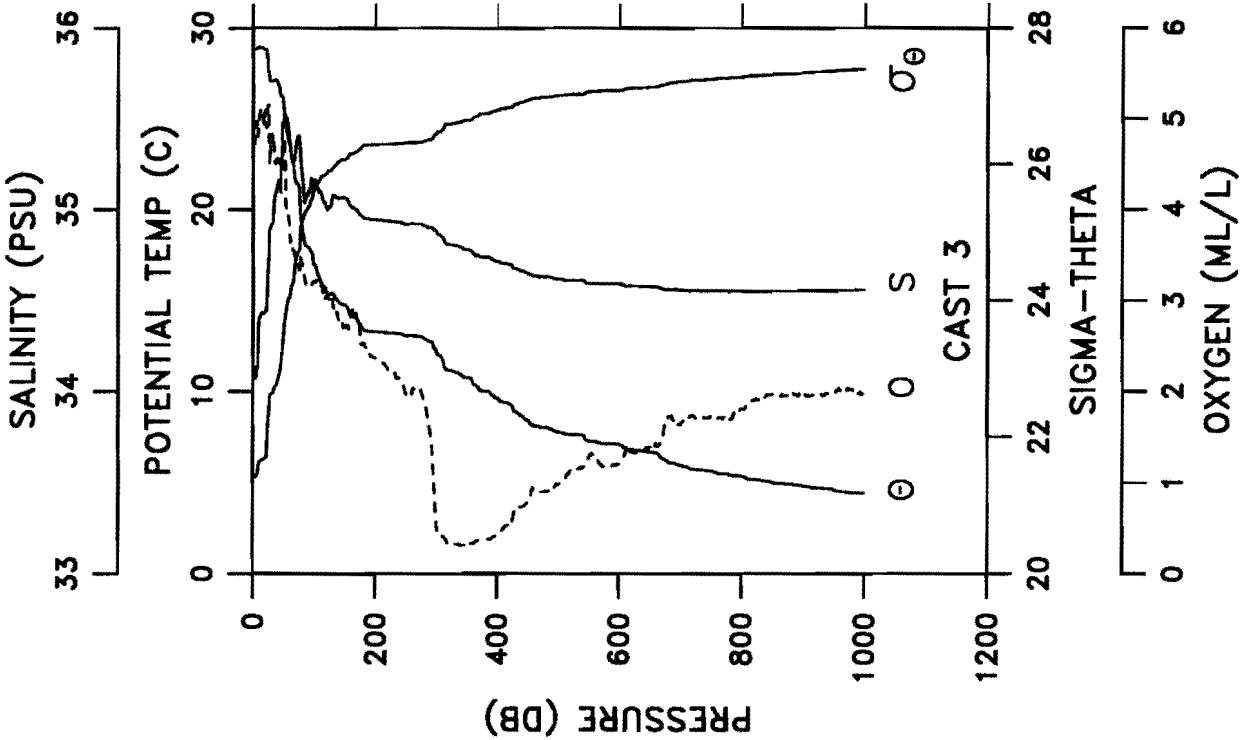
| PRES (DB) | POT TEMP (C) | SAL (FSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.225 | 32.936 | 4.97 | 20.443 | 0.000 |
| 10 | 29.174 | 32.996 | 4.86 | 20.505 | 0.073 |
| 20 | 29.034 | 33.255 | 4.96 | 20.746 | 0.145 |
| 30 | 27.172 | 34.766 | 5.09 | 22.489 | 0.202 |
| 40 | 25.199 | 34.879 | 4.56 | 23.191 | 0.253 |
| 50 | 24.027 | 34.950 | 4.06 | 23.597 | 0.298 |
| 60 | 22.565 | 34.866 | 3.93 | 23.958 | 0.340 |
| 70 | 20.966 | 34.868 | 3.49 | 24.404 | 0.378 |
| 80 | 17.538 | 34.861 | 2.62 | 25.280 | 0.408 |
| 90 | 16.416 | 34.906 | 2.25 | 25.580 | 0.434 |
| 100 | 15.725 | 34.895 | 2.11 | 25.730 | 0.457 |
| 110 | 15.029 | 34.898 | 2.06 | 25.888 | 0.479 |
| 120 | 14.621 | 34.905 | 2.02 | 25.982 | 0.500 |
| 130 | 14.356 | 34.911 | 1.99 | 26.044 | 0.521 |
| 140 | 14.303 | 34.914 | 1.98 | 26.057 | 0.540 |
| 150 | 14.245 | 34.917 | 1.93 | 26.071 | 0.560 |
| 160 | 14.069 | 34.922 | 2.00 | 26.113 | 0.580 |
| 170 | 13.966 | 34.952 | 2.14 | 26.157 | 0.599 |
| 180 | 13.683 | 34.947 | 1.95 | 26.213 | 0.618 |
| 190 | 13.506 | 34.936 | 1.77 | 26.241 | 0.636 |
| 200 | 13.428 | 34.932 | 1.68 | 26.254 | 0.654 |
| 250 | 13.030 | 34.914 | 1.85 | 26.321 | 0.744 |
| 300 | 12.097 | 34.844 | 0.67 | 26.450 | 0.830 |
| 350 | 8.936 | 34.723 | 0.28 | 26.747 | 0.906 |
| 400 | 8.844 | 34.670 | 0.64 | 26.865 | 0.971 |
| 450 | 8.420 | 34.646 | 0.77 | 26.935 | 1.033 |
| 500 | 8.021 | 34.628 | 0.97 | 26.979 | 1.091 |
| 550 | 7.464 | 34.601 | 1.18 | 27.039 | 1.148 |
| 600 | 6.933 | 34.581 | 1.33 | 27.098 | 1.202 |
| 650 | 6.566 | 34.572 | 1.38 | 27.141 | 1.254 |
| 700 | 6.011 | 34.556 | 1.59 | 27.201 | 1.303 |
| 750 | 5.596 | 34.548 | 1.62 | 27.248 | 1.350 |
| 800 | 5.280 | 34.548 | 1.83 | 27.283 | 1.385 |
| 900 | 4.786 | 34.551 | 1.97 | 27.344 | 1.481 |
| 1000 | 4.453 | 34.555 | 2.07 | 27.384 | 1.562 |
| 1500 | 2.696 | 34.619 | 2.28 | 27.608 | 1.898 |
| 2000 | 2.038 | 34.647 | 2.67 | 27.696 | 2.170 |
| 2500 | 1.679 | 34.667 | 3.01 | 27.729 | 2.411 |
| 3000 | 1.454 | 34.677 | 3.32 | 27.754 | 2.640 |
| 3447 | 1.304 | 34.686 | 3.55 | 27.772 | 2.841 |

CAST EP1-87-RS -003 DATE 26 APR 87 TIME 2038 GMT

LAT 00 01.7N LONG 107 52.0W

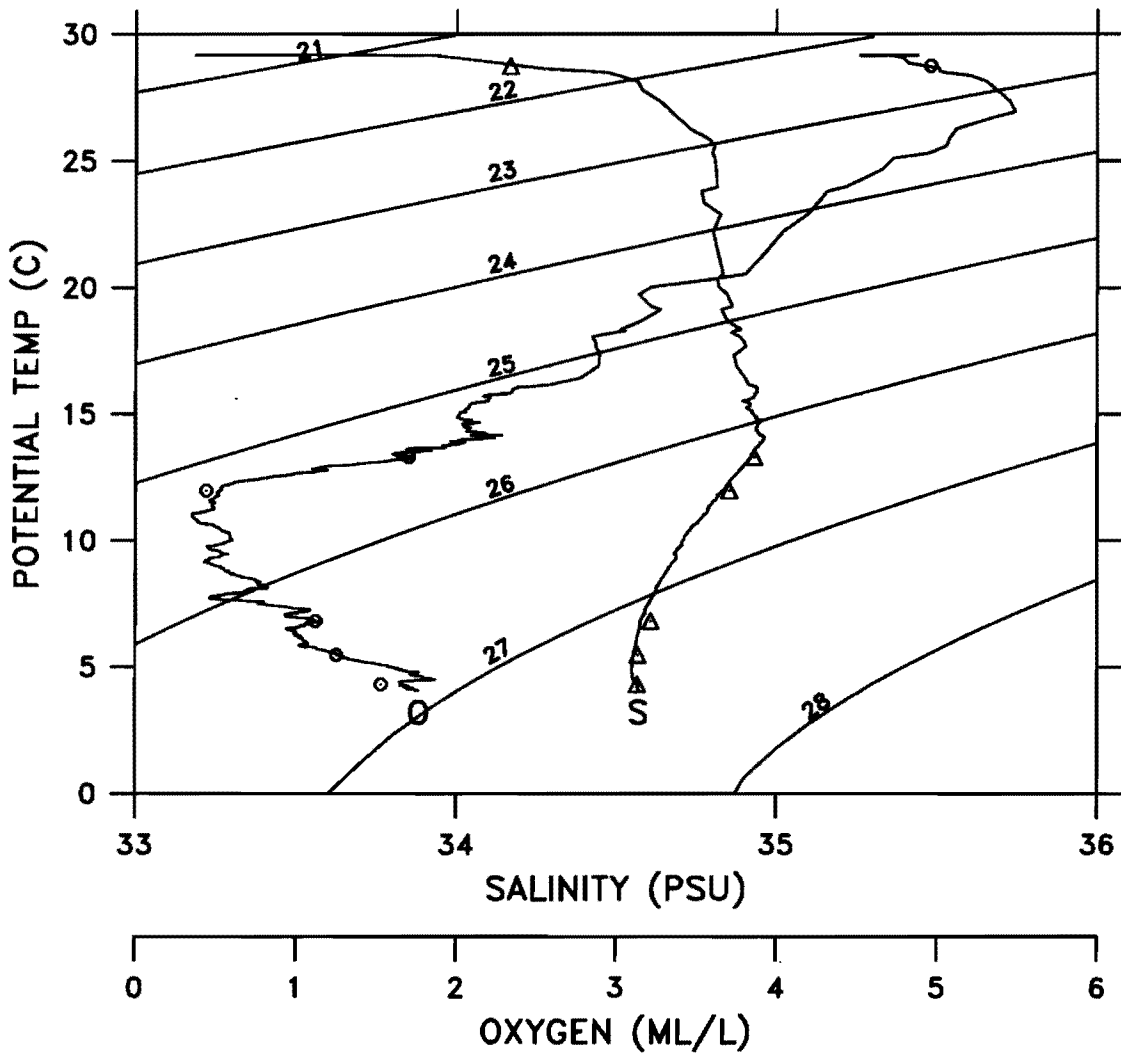


CAST EP1-87-RS --003 DATE 26 APR 87 TIME 2038 GMT
 LAT 00 01.7N LONG 107 52.0W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 215 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 27.8 WET 25.8 DEPTH 3724 M

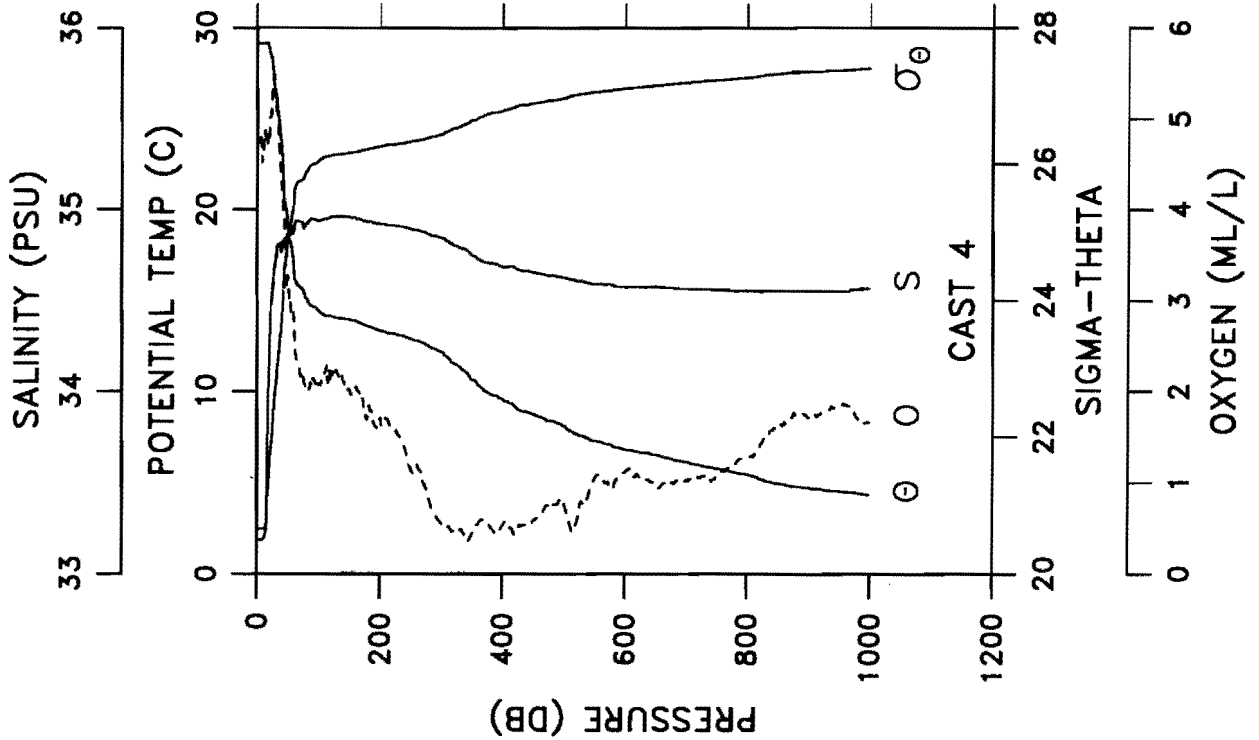


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.864 | 34.070 | 4.71 | 21.414 | 0.000 |
| 10 | 28.967 | 34.403 | 5.01 | 21.629 | 0.063 |
| 20 | 28.840 | 34.444 | 5.10 | 21.702 | 0.125 |
| 30 | 27.074 | 34.918 | 4.81 | 22.634 | 0.181 |
| 40 | 26.981 | 35.142 | 4.61 | 22.833 | 0.232 |
| 50 | 25.706 | 35.485 | 4.78 | 23.493 | 0.280 |
| 60 | 23.544 | 35.357 | 3.68 | 24.048 | 0.321 |
| 70 | 21.515 | 35.355 | 3.41 | 24.624 | 0.357 |
| 80 | 18.925 | 35.185 | 3.39 | 25.183 | 0.388 |
| 90 | 17.892 | 35.093 | 3.20 | 25.371 | 0.415 |
| 100 | 16.988 | 35.156 | 3.20 | 25.642 | 0.441 |
| 110 | 16.057 | 35.101 | 3.16 | 25.813 | 0.464 |
| 120 | 15.471 | 35.005 | 3.08 | 25.872 | 0.486 |
| 130 | 15.383 | 35.078 | 3.01 | 25.948 | 0.507 |
| 140 | 14.934 | 35.061 | 2.76 | 26.035 | 0.527 |
| 150 | 14.767 | 35.066 | 2.71 | 26.074 | 0.547 |
| 160 | 14.221 | 35.018 | 2.88 | 26.155 | 0.566 |
| 170 | 13.955 | 34.993 | 2.75 | 26.192 | 0.585 |
| 180 | 13.409 | 34.957 | 2.53 | 26.277 | 0.604 |
| 190 | 13.317 | 34.947 | 2.41 | 26.289 | 0.621 |
| 200 | 13.292 | 34.945 | 2.37 | 26.292 | 0.639 |
| 250 | 13.071 | 34.920 | 1.96 | 26.317 | 0.728 |
| 300 | 12.147 | 34.879 | 0.54 | 26.468 | 0.815 |
| 350 | 10.779 | 34.781 | 0.32 | 26.645 | 0.892 |
| 400 | 9.626 | 34.715 | 0.43 | 26.793 | 0.962 |
| 450 | 8.407 | 34.651 | 0.79 | 26.938 | 1.025 |
| 500 | 7.777 | 34.619 | 0.98 | 27.008 | 1.083 |
| 550 | 7.290 | 34.596 | 1.27 | 27.060 | 1.139 |
| 600 | 7.112 | 34.592 | 1.21 | 27.082 | 1.193 |
| 650 | 6.675 | 34.576 | 1.39 | 27.129 | 1.245 |
| 700 | 5.954 | 34.557 | 1.63 | 27.209 | 1.294 |
| 750 | 5.657 | 34.554 | 1.73 | 27.243 | 1.341 |
| 800 | 5.390 | 34.551 | 1.81 | 27.275 | 1.386 |
| 800 | 4.828 | 34.553 | 1.96 | 27.340 | 1.472 |
| 1000 | 4.428 | 34.559 | 1.97 | 27.390 | 1.552 |
| 1021 | 4.350 | 34.561 | 1.99 | 27.400 | 1.569 |

CAST EP1-87-RS -004 DATE 27 APR 87 TIME 1634 GMT
LAT 02 12.8N LONG 110 18.1W

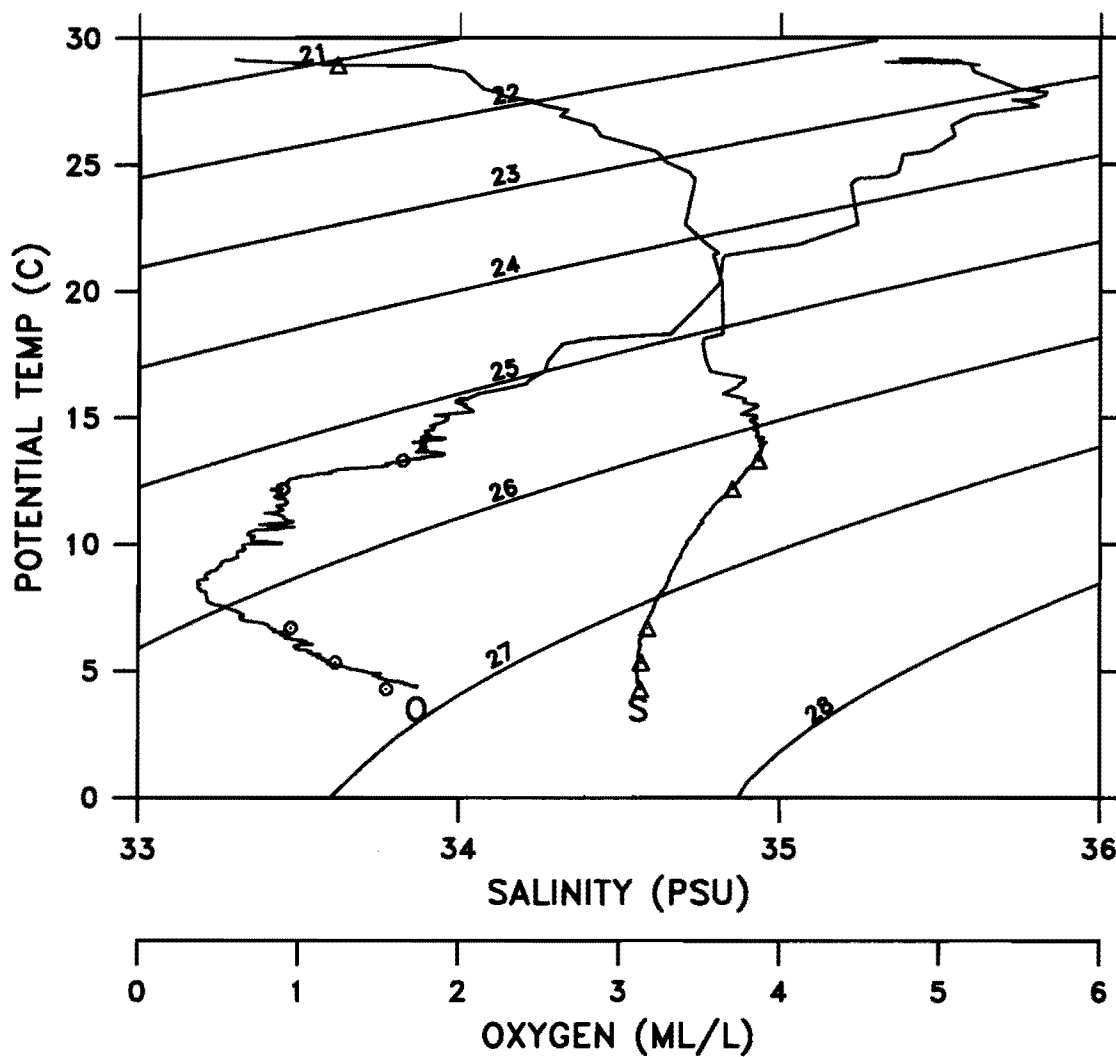


CAST EP1-87-RS -004 DATE 27 APR 87 TIME 1634 GMT
 LAT 02 12.8N LONG 110 18.1W WEATHER 6 SEA STATE 3
 BAROMETER 12 WIND DIR 185 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 27.6 WET 25.4 DEPTH 3789 M

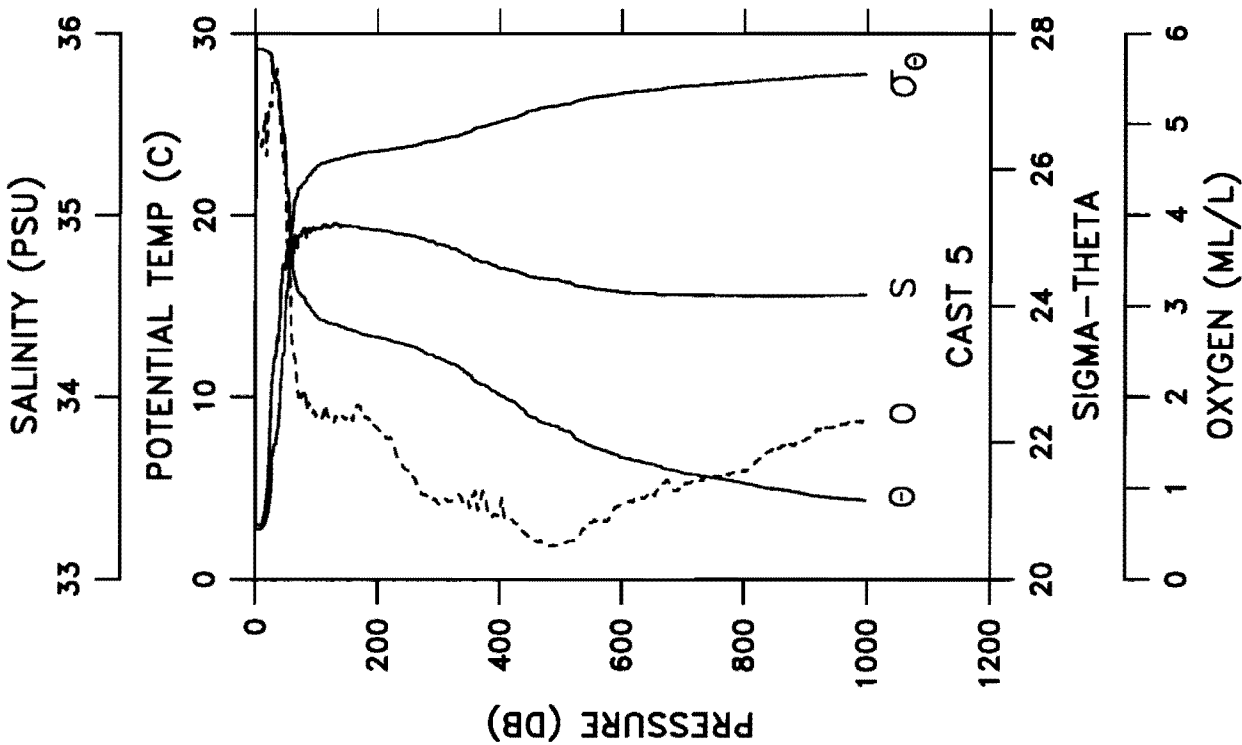


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.154 | 33.186 | 4.80 | 20.654 | 0.000 |
| 10 | 29.145 | 33.188 | 4.62 | 20.658 | 0.071 |
| 20 | 28.854 | 34.138 | 4.82 | 21.468 | 0.140 |
| 30 | 26.432 | 34.716 | 5.21 | 22.686 | 0.198 |
| 40 | 23.347 | 34.772 | 4.26 | 23.662 | 0.245 |
| 50 | 19.142 | 34.828 | 3.28 | 24.854 | 0.280 |
| 60 | 16.422 | 34.901 | 2.78 | 25.575 | 0.308 |
| 70 | 15.746 | 34.932 | 2.18 | 25.754 | 0.331 |
| 80 | 15.102 | 34.922 | 2.05 | 25.890 | 0.353 |
| 90 | 14.677 | 34.949 | 2.14 | 26.004 | 0.373 |
| 100 | 14.419 | 34.935 | 2.08 | 26.049 | 0.393 |
| 110 | 14.180 | 34.950 | 2.21 | 26.111 | 0.413 |
| 120 | 14.149 | 34.957 | 2.22 | 26.123 | 0.432 |
| 130 | 14.061 | 34.962 | 2.20 | 26.145 | 0.451 |
| 140 | 14.009 | 34.962 | 2.11 | 26.156 | 0.470 |
| 150 | 13.955 | 34.956 | 2.03 | 26.163 | 0.489 |
| 160 | 13.899 | 34.956 | 2.05 | 26.175 | 0.508 |
| 170 | 13.726 | 34.943 | 1.92 | 26.201 | 0.526 |
| 180 | 13.588 | 34.934 | 1.73 | 26.223 | 0.545 |
| 190 | 13.461 | 34.927 | 1.63 | 26.244 | 0.563 |
| 200 | 13.342 | 34.921 | 1.71 | 26.263 | 0.581 |
| 250 | 12.890 | 34.892 | 1.15 | 26.332 | 0.670 |
| 300 | 12.167 | 34.844 | 0.55 | 26.437 | 0.756 |
| 350 | 10.649 | 34.747 | 0.44 | 26.642 | 0.834 |
| 400 | 9.567 | 34.685 | 0.53 | 26.779 | 0.904 |
| 450 | 8.754 | 34.655 | 0.58 | 26.887 | 0.969 |
| 500 | 8.113 | 34.625 | 0.82 | 26.963 | 1.029 |
| 550 | 7.294 | 34.590 | 1.05 | 27.055 | 1.086 |
| 600 | 6.817 | 34.575 | 1.11 | 27.110 | 1.139 |
| 650 | 6.529 | 34.575 | 0.95 | 27.148 | 1.190 |
| 700 | 6.149 | 34.566 | 1.02 | 27.191 | 1.240 |
| 750 | 5.786 | 34.560 | 1.07 | 27.232 | 1.287 |
| 800 | 5.456 | 34.554 | 1.27 | 27.268 | 1.333 |
| 900 | 4.719 | 34.551 | 1.71 | 27.351 | 1.418 |
| 1000 | 4.327 | 34.566 | 1.66 | 27.406 | 1.498 |
| 1059 | 4.065 | 34.572 | 1.76 | 27.439 | 1.542 |

CAST EP1-87-RS -005 DATE 27 APR 87 TIME 2154 GMT
LAT 03 00.7N LONG 109 59.6W

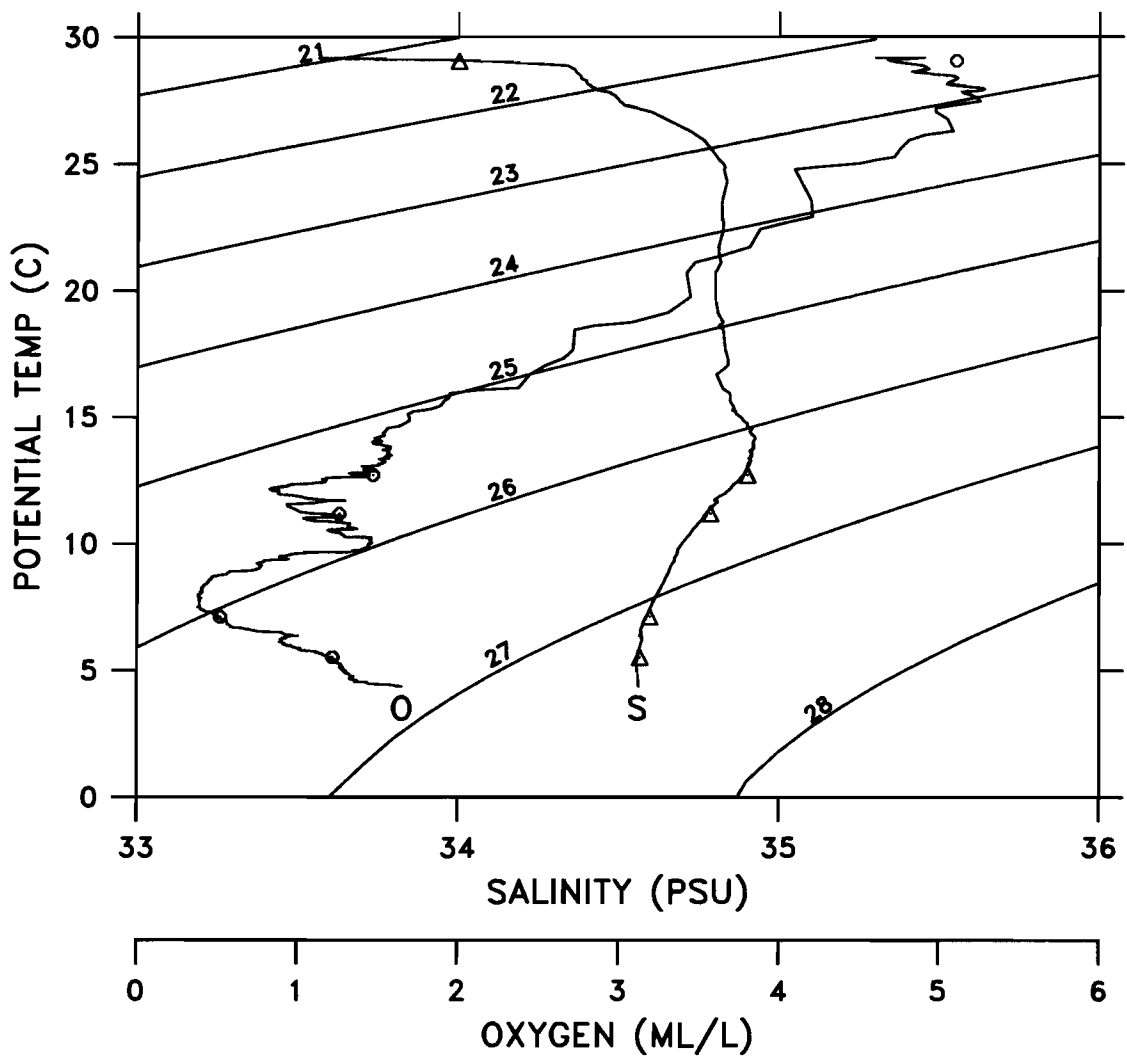


CAST EP1-87-RS -005 DATE 27 APR 87 TIME 2154 GMT
 LAT 03 00.7N LONG 109 59.6W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 220 T SPD 14 KT VISIBILITY 7
 CLOUD 6 AMOUNT 4 DRY 28.8 WET 25.5 DEPTH 3802 M

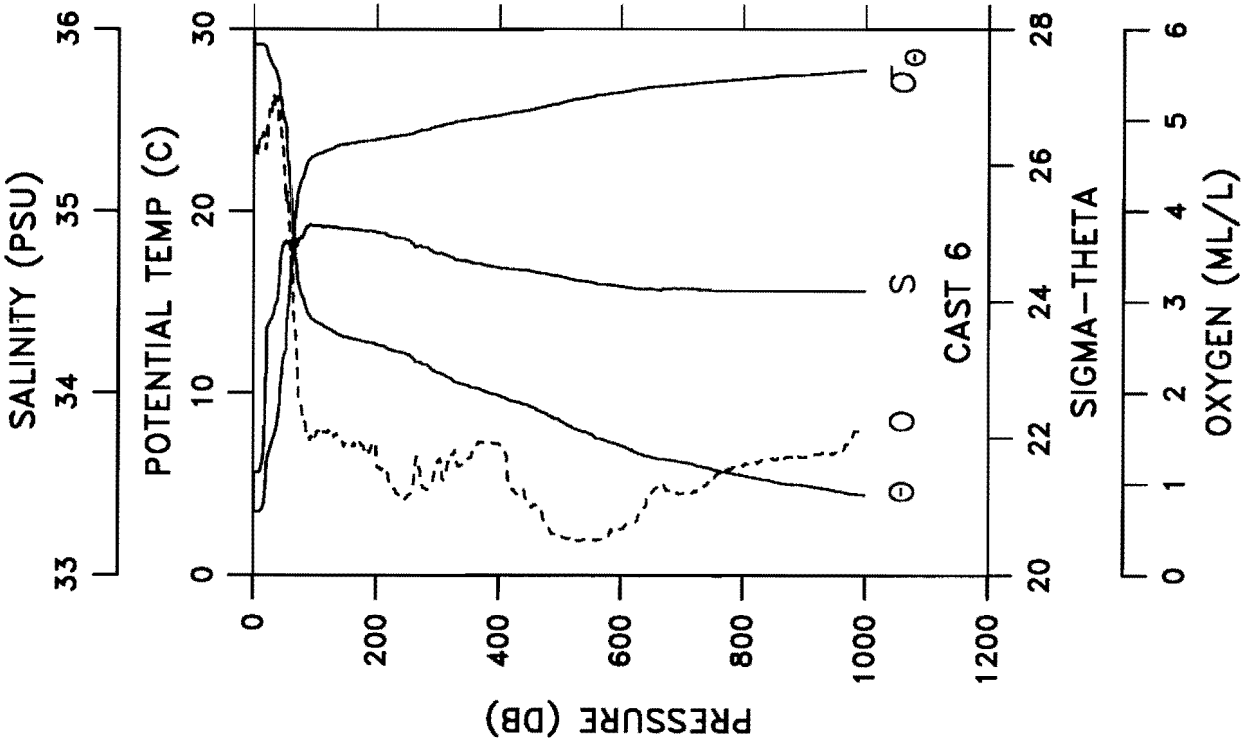


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.149 | 33.300 | 4.94 | 20.741 | 0.000 |
| 10 | 29.151 | 33.298 | 4.75 | 20.740 | 0.070 |
| 20 | 28.992 | 33.499 | 5.12 | 20.943 | 0.140 |
| 30 | 27.579 | 34.194 | 5.59 | 21.927 | 0.204 |
| 40 | 26.126 | 34.439 | 5.09 | 22.573 | 0.261 |
| 50 | 21.854 | 34.769 | 4.11 | 24.084 | 0.307 |
| 60 | 17.596 | 34.762 | 2.60 | 25.190 | 0.340 |
| 70 | 15.747 | 34.890 | 2.00 | 25.721 | 0.365 |
| 80 | 15.440 | 34.930 | 2.03 | 25.821 | 0.387 |
| 90 | 14.845 | 34.909 | 1.90 | 25.936 | 0.409 |
| 100 | 14.445 | 34.931 | 1.80 | 26.040 | 0.429 |
| 110 | 14.225 | 34.942 | 1.78 | 26.095 | 0.449 |
| 120 | 14.070 | 34.933 | 1.77 | 26.121 | 0.468 |
| 130 | 14.020 | 34.955 | 1.74 | 26.149 | 0.487 |
| 140 | 13.863 | 34.944 | 1.78 | 26.173 | 0.506 |
| 150 | 13.749 | 34.942 | 1.76 | 26.196 | 0.524 |
| 160 | 13.648 | 34.939 | 1.73 | 26.214 | 0.543 |
| 170 | 13.530 | 34.935 | 1.90 | 26.235 | 0.561 |
| 180 | 13.427 | 34.927 | 1.76 | 26.250 | 0.580 |
| 190 | 13.361 | 34.922 | 1.70 | 26.260 | 0.598 |
| 200 | 13.299 | 34.918 | 1.66 | 26.270 | 0.616 |
| 250 | 12.853 | 34.892 | 1.19 | 26.339 | 0.704 |
| 300 | 12.171 | 34.842 | 0.83 | 26.434 | 0.790 |
| 350 | 11.236 | 34.774 | 0.82 | 26.557 | 0.870 |
| 400 | 10.116 | 34.707 | 0.72 | 26.704 | 0.945 |
| 450 | 8.940 | 34.661 | 0.46 | 26.863 | 1.012 |
| 500 | 8.224 | 34.638 | 0.38 | 26.956 | 1.074 |
| 550 | 7.337 | 34.600 | 0.62 | 27.057 | 1.131 |
| 600 | 6.702 | 34.576 | 0.82 | 27.126 | 1.184 |
| 650 | 6.336 | 34.570 | 0.93 | 27.170 | 1.234 |
| 700 | 5.841 | 34.562 | 1.00 | 27.227 | 1.282 |
| 750 | 5.609 | 34.560 | 1.13 | 27.254 | 1.328 |
| 800 | 5.279 | 34.558 | 1.20 | 27.292 | 1.372 |
| 800 | 4.697 | 34.558 | 1.52 | 27.359 | 1.457 |
| 897 | 4.348 | 34.561 | 1.74 | 27.400 | 1.533 |

CAST EP1-87-RS -006 DATE 28 APR 87 TIME 0338 GMT
LAT 04 00.1N LONG 110 00.1W

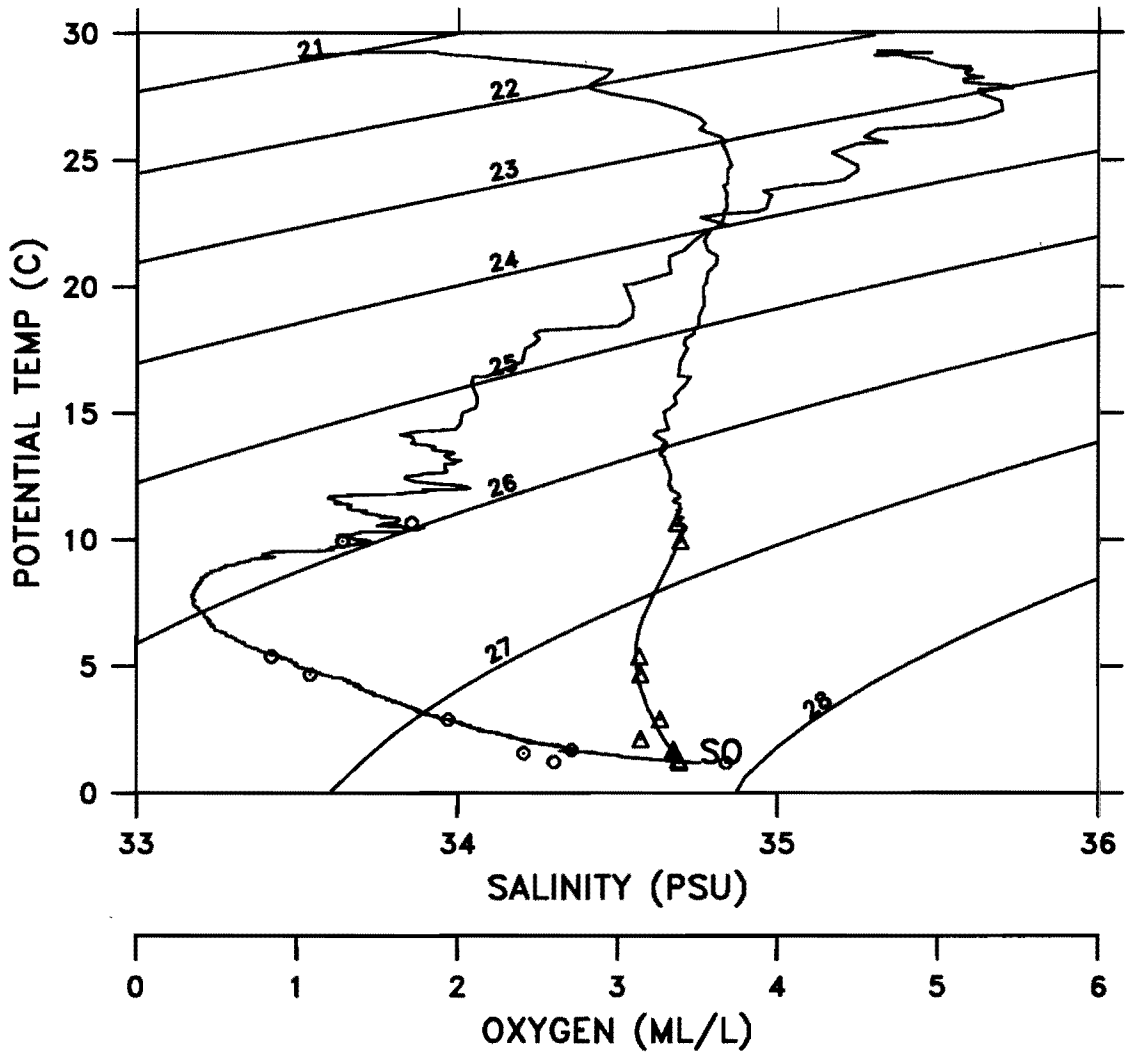


CST EP1-87-RS --006 DATE 28 APR 87 TIME 0338 GMT
 LAT 04 00.1N LONG 110 00.1W WEATHER 3 SEA STATE 3
 BAROMETER 13 WIND DIR 230 T SPD 10 KT VISIBILITY
 CLOUD X AMOUNT DRY 28.4 WET 25.4 DEPTH 3895 M

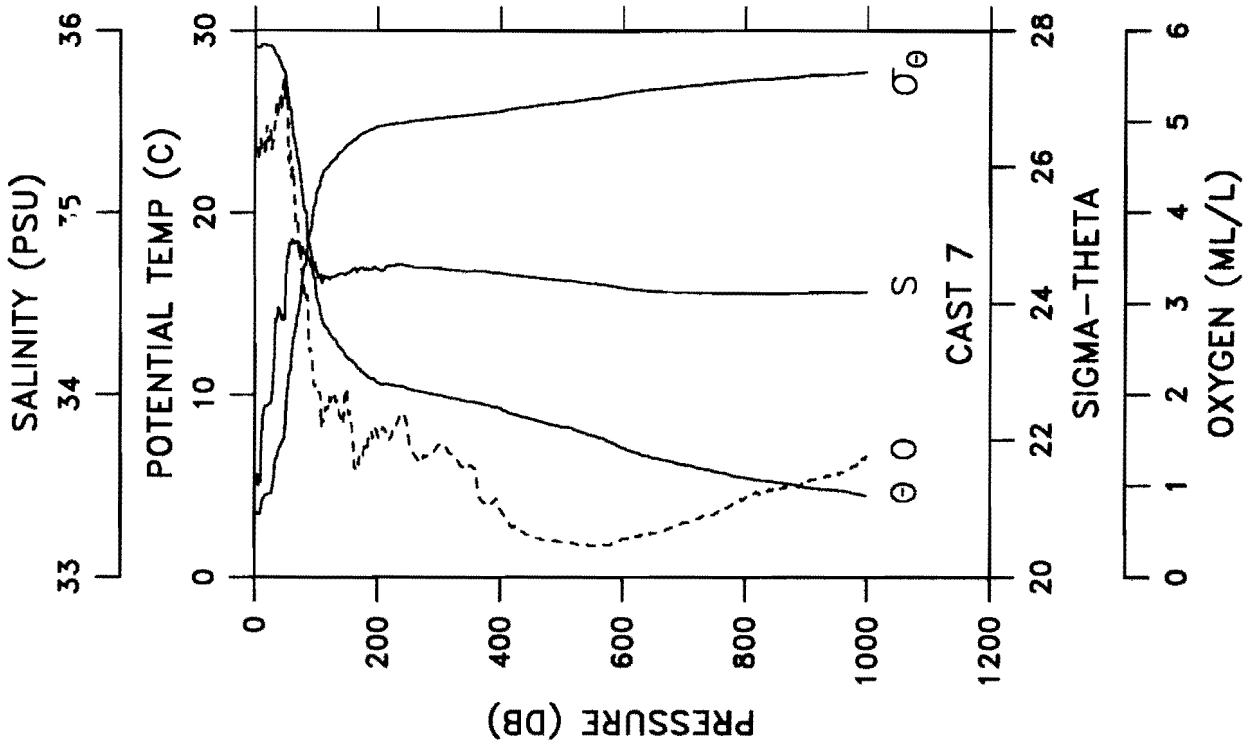


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.163 | 33.567 | 4.91 | 20.937 | 0.000 |
| 10 | 29.162 | 33.565 | 4.82 | 20.936 | 0.068 |
| 20 | 29.027 | 34.115 | 4.70 | 21.393 | 0.136 |
| 30 | 28.045 | 34.412 | 5.16 | 21.940 | 0.196 |
| 40 | 27.196 | 34.556 | 4.98 | 22.323 | 0.253 |
| 50 | 24.960 | 34.827 | 4.39 | 23.225 | 0.304 |
| 60 | 21.128 | 34.818 | 3.48 | 24.322 | 0.345 |
| 70 | 16.685 | 34.805 | 2.45 | 25.440 | 0.375 |
| 80 | 15.234 | 34.865 | 1.73 | 25.817 | 0.398 |
| 90 | 14.280 | 34.920 | 1.54 | 26.067 | 0.419 |
| 100 | 13.918 | 34.918 | 1.50 | 26.142 | 0.438 |
| 110 | 13.758 | 34.918 | 1.57 | 26.175 | 0.457 |
| 120 | 13.548 | 34.917 | 1.56 | 26.217 | 0.475 |
| 130 | 13.350 | 34.908 | 1.53 | 26.251 | 0.493 |
| 140 | 13.147 | 34.908 | 1.51 | 26.293 | 0.511 |
| 150 | 13.053 | 34.904 | 1.44 | 26.308 | 0.529 |
| 160 | 12.963 | 34.900 | 1.41 | 26.324 | 0.546 |
| 170 | 12.873 | 34.896 | 1.47 | 26.338 | 0.563 |
| 180 | 12.803 | 34.892 | 1.38 | 26.349 | 0.581 |
| 190 | 12.737 | 34.890 | 1.37 | 26.361 | 0.598 |
| 200 | 12.639 | 34.883 | 1.33 | 26.374 | 0.615 |
| 250 | 12.098 | 34.841 | 0.85 | 26.448 | 0.698 |
| 300 | 11.119 | 34.766 | 1.23 | 26.572 | 0.777 |
| 350 | 10.393 | 34.722 | 1.27 | 26.668 | 0.851 |
| 400 | 9.839 | 34.689 | 1.44 | 26.737 | 0.922 |
| 450 | 9.266 | 34.671 | 0.78 | 26.818 | 0.990 |
| 500 | 8.488 | 34.641 | 0.44 | 26.918 | 1.053 |
| 550 | 7.735 | 34.610 | 0.39 | 27.007 | 1.112 |
| 600 | 7.103 | 34.586 | 0.51 | 27.079 | 1.167 |
| 650 | 6.463 | 34.570 | 0.90 | 27.153 | 1.219 |
| 700 | 6.200 | 34.573 | 0.90 | 27.190 | 1.269 |
| 750 | 5.795 | 34.563 | 1.03 | 27.233 | 1.316 |
| 800 | 5.474 | 34.559 | 1.21 | 27.270 | 1.362 |
| 900 | 4.930 | 34.559 | 1.29 | 27.334 | 1.449 |
| 1000 | 4.385 | 34.562 | 1.61 | 27.397 | 1.529 |
| 1011 | 4.358 | 34.563 | 1.65 | 27.401 | 1.538 |

CAST EP1-87-RS -007 DATE 28 APR 87 TIME 1013 GMT
LAT 05 00.6N LONG 110 03.8W

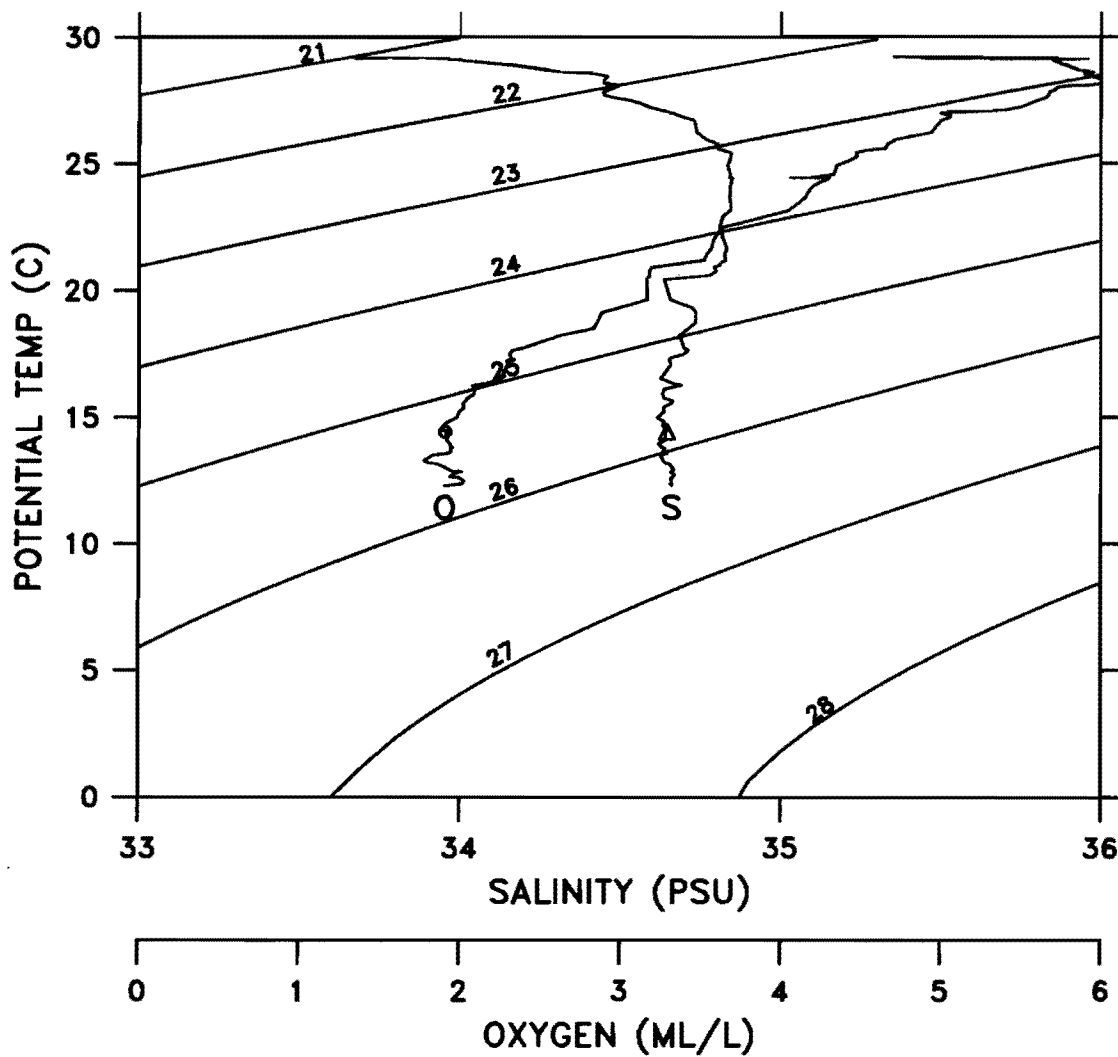


CAST EP1-87-RS -007 DATE 28 APR 87 TIME 1013 GMT
 LAT 05 00.6N LONG 110 03.8W WEATHER SEA STATE 2
 BAROMETER 11 WIND DIR 180 T SPD 14 KT VISIBILITY 7
 CLOUD AMOUNT DRY 27.0 WET 24.0 DEPTH 3959 M



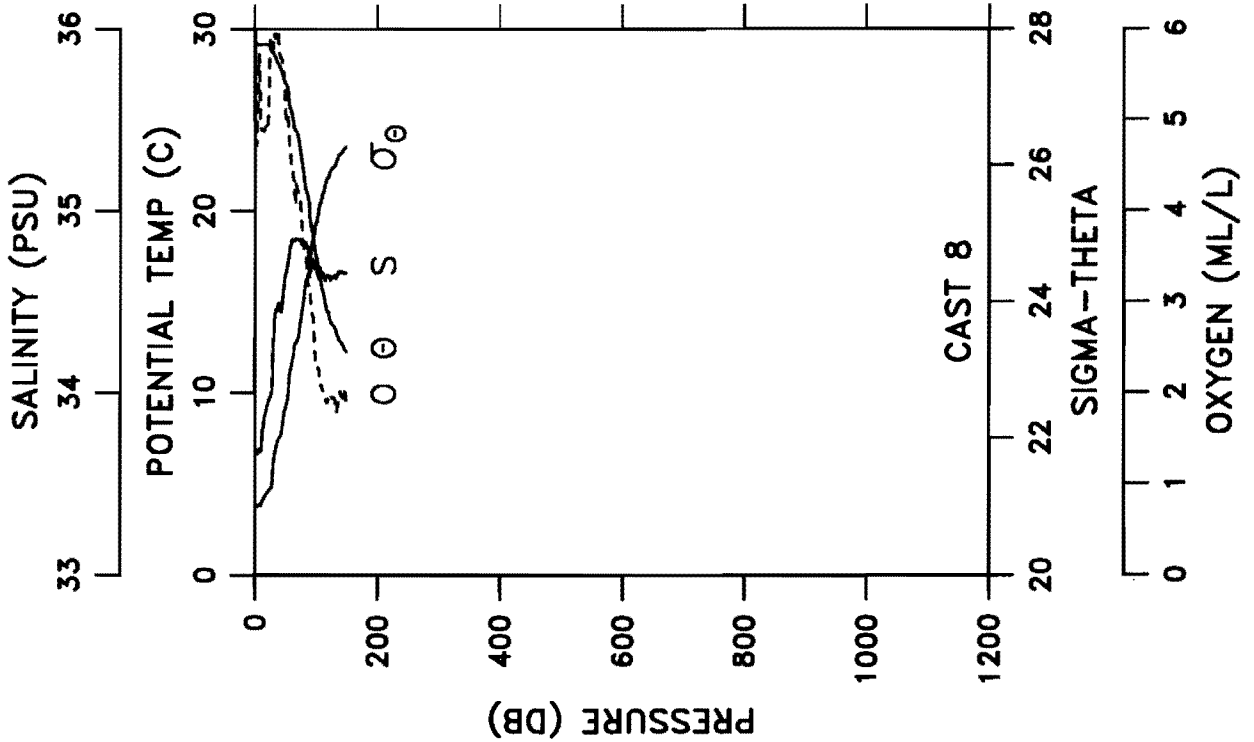
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.126 | 33.562 | 4.70 | 20.945 | 0.000 |
| 10 | 29.159 | 33.608 | 4.71 | 20.969 | 0.068 |
| 20 | 29.190 | 33.938 | 4.84 | 21.206 | 0.135 |
| 30 | 29.034 | 34.089 | 4.82 | 21.371 | 0.200 |
| 40 | 28.323 | 34.463 | 5.18 | 21.888 | 0.261 |
| 50 | 27.289 | 34.611 | 5.39 | 22.335 | 0.320 |
| 60 | 24.770 | 34.855 | 4.50 | 23.303 | 0.370 |
| 70 | 22.861 | 34.830 | 3.66 | 23.846 | 0.413 |
| 80 | 20.098 | 34.775 | 3.10 | 24.566 | 0.450 |
| 90 | 17.939 | 34.712 | 2.51 | 25.067 | 0.482 |
| 100 | 15.368 | 34.683 | 2.12 | 25.642 | 0.508 |
| 110 | 14.046 | 34.624 | 1.72 | 25.887 | 0.531 |
| 120 | 13.449 | 34.638 | 1.97 | 26.022 | 0.551 |
| 130 | 13.016 | 34.650 | 1.98 | 26.119 | 0.571 |
| 140 | 12.530 | 34.663 | 1.73 | 26.226 | 0.590 |
| 150 | 12.038 | 34.669 | 2.07 | 26.325 | 0.607 |
| 160 | 11.792 | 34.690 | 1.49 | 26.389 | 0.624 |
| 170 | 11.415 | 34.693 | 1.30 | 26.461 | 0.641 |
| 180 | 11.114 | 34.693 | 1.40 | 26.516 | 0.657 |
| 190 | 10.880 | 34.688 | 1.59 | 26.554 | 0.672 |
| 200 | 10.658 | 34.690 | 1.59 | 26.596 | 0.687 |
| 250 | 10.313 | 34.707 | 1.57 | 26.669 | 0.759 |
| 300 | 9.954 | 34.694 | 1.44 | 26.721 | 0.829 |
| 350 | 9.600 | 34.676 | 1.21 | 26.767 | 0.897 |
| 400 | 9.244 | 34.668 | 0.75 | 26.819 | 0.964 |
| 450 | 8.668 | 34.646 | 0.46 | 26.894 | 1.027 |
| 500 | 8.224 | 34.629 | 0.39 | 26.949 | 1.088 |
| 550 | 7.759 | 34.611 | 0.35 | 27.004 | 1.146 |
| 600 | 7.088 | 34.586 | 0.42 | 27.081 | 1.202 |
| 650 | 6.527 | 34.569 | 0.48 | 27.144 | 1.254 |
| 700 | 6.170 | 34.563 | 0.60 | 27.186 | 1.304 |
| 750 | 5.786 | 34.558 | 0.70 | 27.231 | 1.352 |
| 800 | 5.437 | 34.557 | 0.86 | 27.272 | 1.397 |
| 900 | 4.915 | 34.559 | 1.03 | 27.335 | 1.484 |
| 1000 | 4.437 | 34.564 | 1.32 | 27.393 | 1.566 |
| 1500 | 2.891 | 34.612 | 1.92 | 27.586 | 1.906 |
| 2000 | 2.120 | 34.645 | 2.38 | 27.678 | 2.184 |
| 2500 | 1.685 | 34.668 | 2.72 | 27.730 | 2.427 |
| 3000 | 1.555 | 34.675 | 2.87 | 27.745 | 2.663 |
| 3500 | 1.284 | 34.688 | 3.31 | 27.775 | 2.889 |
| 3793 | 1.182 | 34.692 | 3.52 | 27.786 | 3.018 |

CAST EP1-87-RS -008 DATE 28 APR 87 TIME 1913 GMT
LAT 05 02.5N LONG 110 01.5W

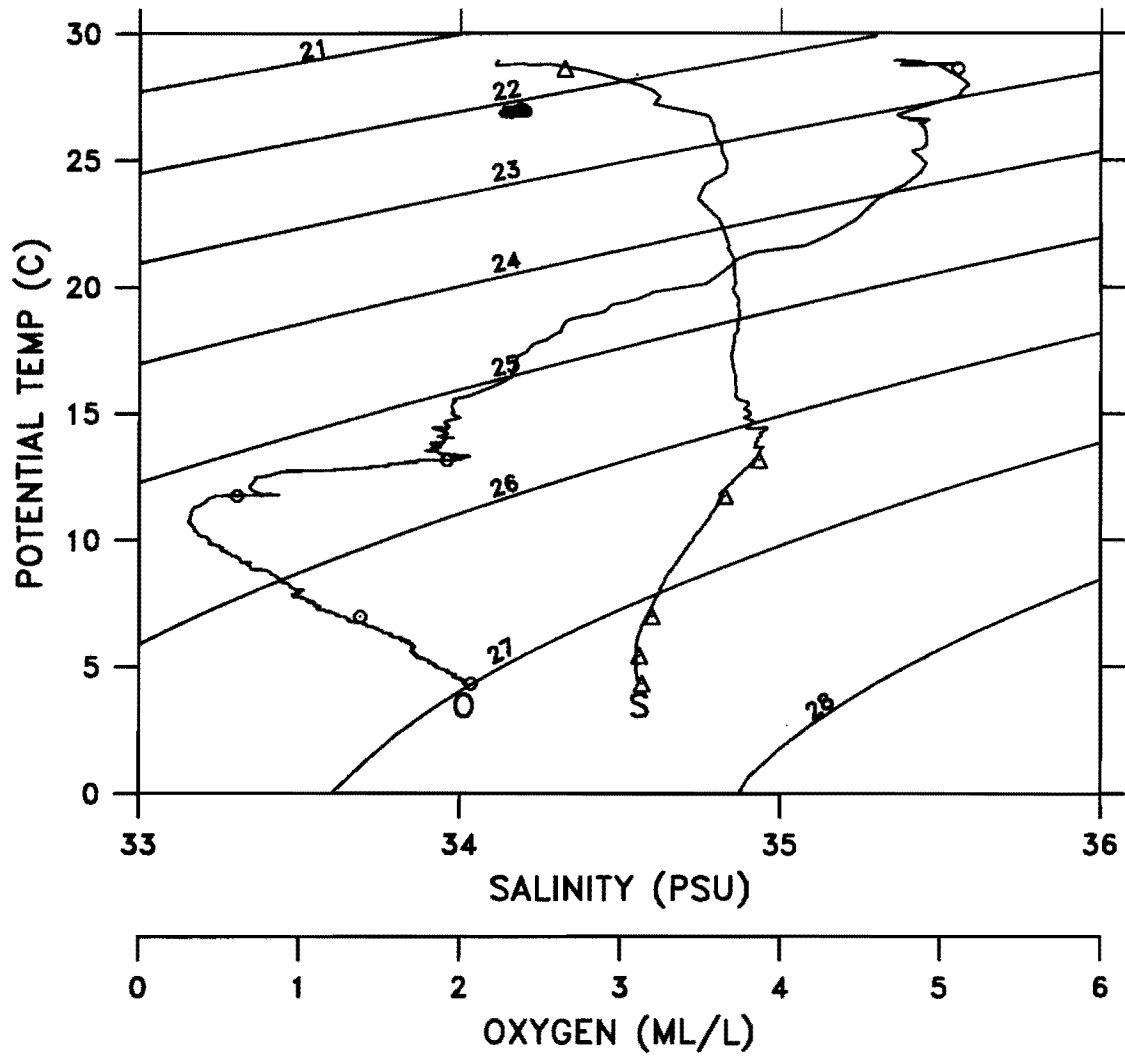


CAST EP1-87-RS-008 DATE 28 APR 87 TIME 1913 GMT
 LAT 05 02.5N LONG 110 01.5W WEATHER 2 SEA STATE
 BAROMETER WIND DIR T SPD KT VISIBILITY
 CLOUD 6 AMOUNT 8 DRY WET DEPTH 3925 M

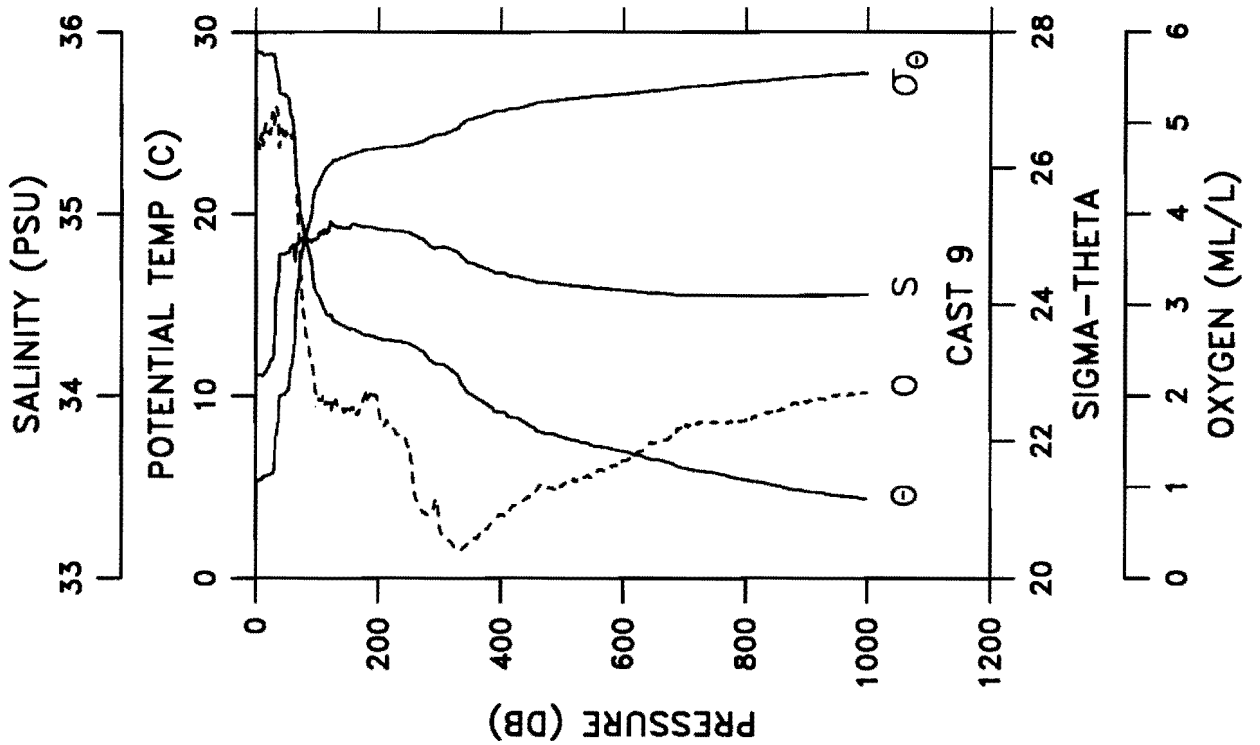
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.204 | 33.666 | 4.73 | 20.997 | 0.000 |
| 10 | 29.153 | 33.682 | 4.90 | 21.026 | 0.068 |
| 20 | 29.155 | 33.929 | 4.92 | 21.211 | 0.134 |
| 30 | 28.669 | 34.274 | 5.86 | 21.631 | 0.199 |
| 40 | 27.993 | 34.479 | 5.73 | 22.007 | 0.259 |
| 50 | 27.018 | 34.650 | 5.07 | 22.450 | 0.315 |
| 60 | 25.410 | 34.844 | 4.47 | 23.100 | 0.366 |
| 70 | 24.174 | 34.844 | 4.22 | 23.473 | 0.412 |
| 80 | 22.017 | 34.820 | 3.58 | 24.078 | 0.453 |
| 90 | 19.629 | 34.656 | 3.17 | 24.597 | 0.489 |
| 100 | 17.487 | 34.700 | 2.31 | 25.168 | 0.520 |
| 110 | 15.642 | 34.663 | 2.04 | 25.571 | 0.546 |
| 120 | 14.427 | 34.639 | 1.93 | 25.819 | 0.569 |
| 130 | 13.581 | 34.640 | 1.93 | 25.997 | 0.590 |
| 140 | 12.819 | 34.656 | 1.99 | 26.163 | 0.610 |
| 149 | 12.284 | 34.661 | 1.91 | 26.272 | 0.626 |



CAST EP1-87-RS -009 DATE 30 APR 87 TIME 0226 GMT
LAT 00 59.7N LONG 109 59.3W

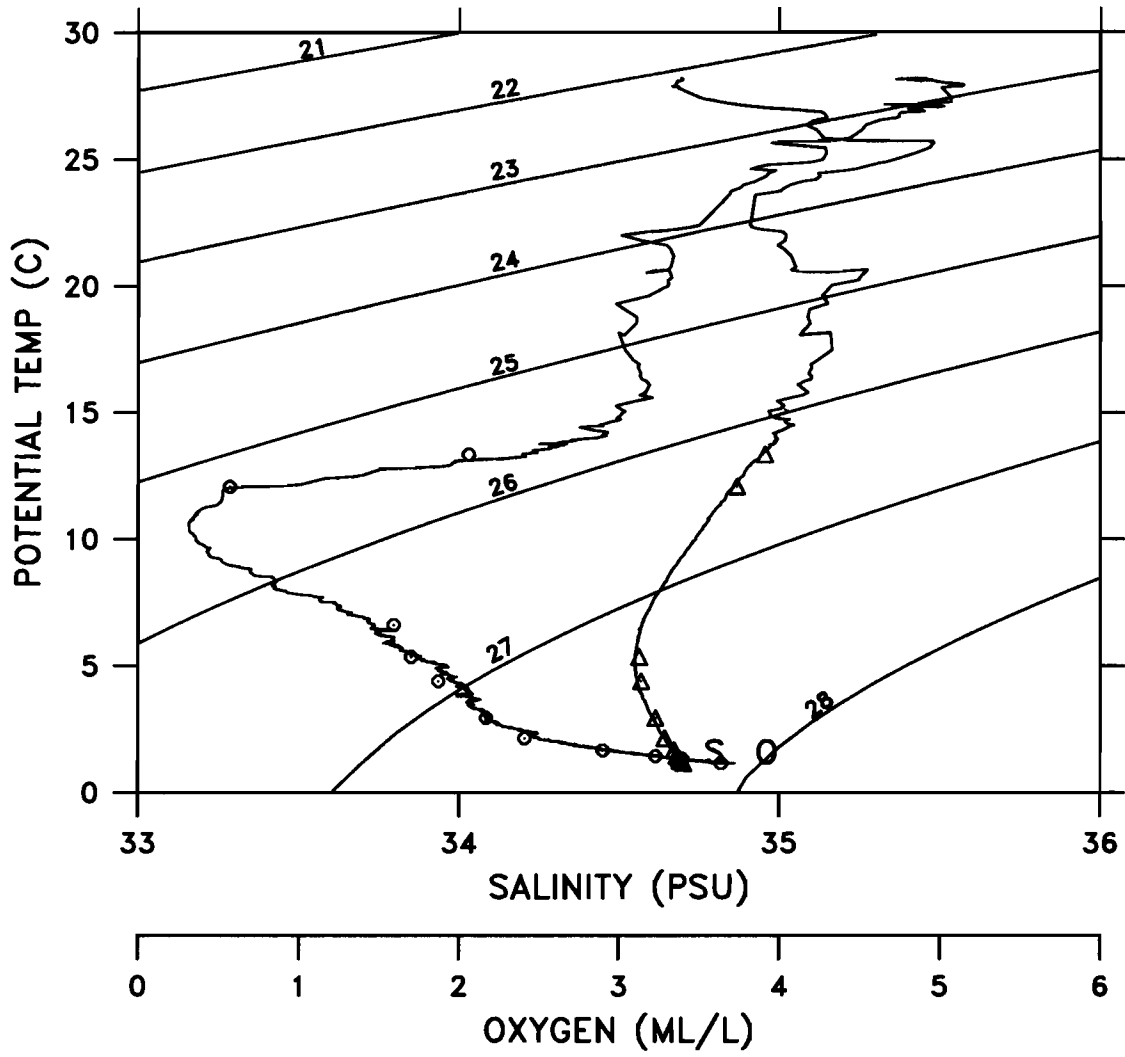


CAST EP1-87-RS -009 DATE 30 APR 87 TIME 0226 GMT
 LAT 00 59.7N LONG 109 59.3W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 080 T SPD 06 KT VISIBILITY 7
 CLOUD X AMOUNT DRY 28.0 WET 26.0 DEPTH 3769 M

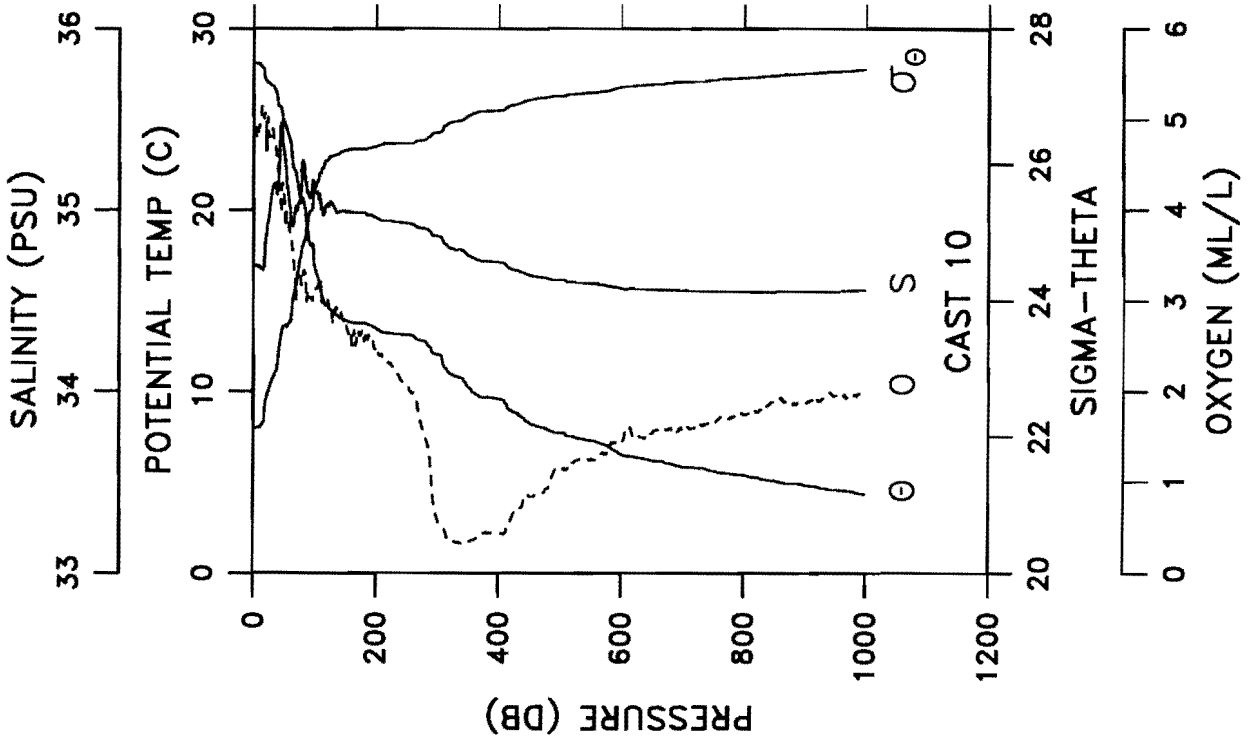


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.912 | 34.117 | 4.76 | 21.433 | 0.000 |
| 10 | 28.867 | 34.114 | 4.90 | 21.445 | 0.064 |
| 20 | 28.782 | 34.155 | 4.89 | 21.505 | 0.127 |
| 30 | 28.795 | 34.279 | 4.98 | 21.593 | 0.189 |
| 40 | 28.632 | 34.780 | 4.83 | 22.671 | 0.246 |
| 50 | 26.464 | 34.786 | 4.89 | 22.729 | 0.297 |
| 60 | 25.082 | 34.826 | 4.88 | 23.186 | 0.347 |
| 70 | 21.124 | 34.853 | 3.73 | 24.350 | 0.368 |
| 80 | 18.855 | 34.870 | 2.76 | 24.960 | 0.420 |
| 90 | 17.433 | 34.849 | 2.41 | 25.296 | 0.449 |
| 100 | 15.610 | 34.864 | 1.97 | 25.733 | 0.473 |
| 110 | 14.845 | 34.887 | 2.00 | 25.920 | 0.495 |
| 120 | 14.430 | 34.939 | 1.92 | 26.049 | 0.515 |
| 130 | 14.060 | 34.932 | 1.91 | 26.123 | 0.535 |
| 140 | 13.878 | 34.925 | 1.90 | 26.155 | 0.554 |
| 150 | 13.733 | 34.923 | 1.85 | 26.184 | 0.573 |
| 160 | 13.673 | 34.945 | 1.85 | 26.214 | 0.591 |
| 170 | 13.498 | 34.935 | 1.87 | 26.242 | 0.610 |
| 180 | 13.331 | 34.929 | 2.06 | 26.271 | 0.628 |
| 190 | 13.286 | 34.927 | 2.05 | 26.279 | 0.645 |
| 200 | 13.162 | 34.917 | 1.89 | 26.296 | 0.663 |
| 250 | 12.897 | 34.899 | 1.44 | 26.336 | 0.751 |
| 300 | 11.757 | 34.818 | 0.61 | 26.494 | 0.835 |
| 350 | 10.128 | 34.730 | 0.42 | 26.719 | 0.911 |
| 400 | 9.112 | 34.676 | 0.70 | 26.847 | 0.978 |
| 450 | 8.309 | 34.635 | 0.92 | 26.941 | 1.040 |
| 500 | 7.744 | 34.612 | 1.02 | 27.007 | 1.087 |
| 550 | 7.261 | 34.593 | 1.13 | 27.062 | 1.153 |
| 600 | 6.988 | 34.581 | 1.29 | 27.093 | 1.207 |
| 650 | 6.503 | 34.565 | 1.48 | 27.144 | 1.258 |
| 700 | 6.040 | 34.552 | 1.65 | 27.194 | 1.308 |
| 750 | 5.775 | 34.550 | 1.70 | 27.225 | 1.356 |
| 800 | 5.388 | 34.550 | 1.73 | 27.273 | 1.401 |
| 900 | 4.788 | 34.550 | 1.92 | 27.345 | 1.488 |
| 1000 | 4.351 | 34.557 | 2.04 | 27.397 | 1.568 |
| 1010 | 4.338 | 34.557 | 2.03 | 27.398 | 1.576 |

CAST EP1-87-RS -010 DATE 30 APR 87 TIME 0939 GMT
LAT 00 00.7N LONG 109 59.3W

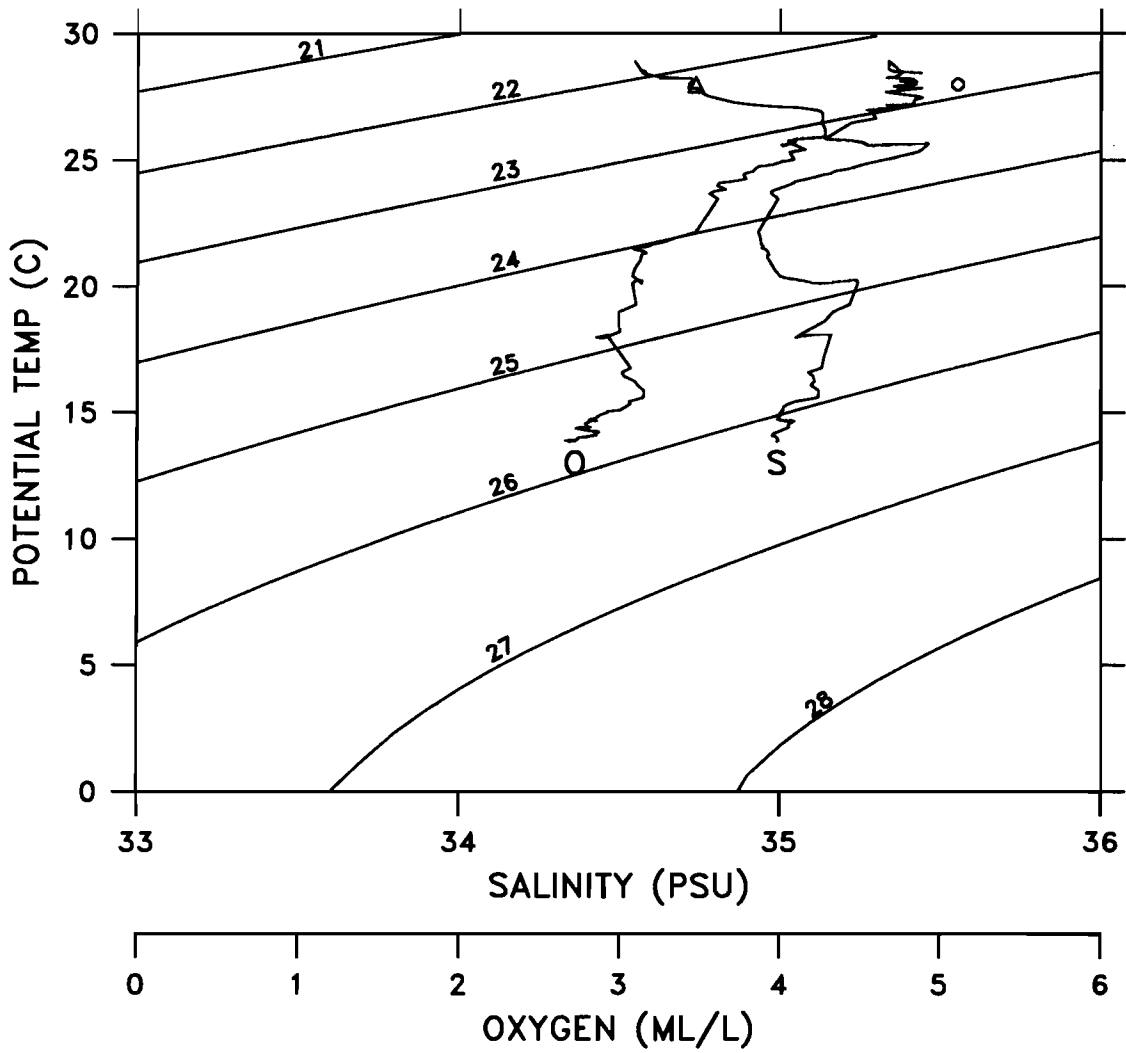


CAST EP1-87-RS -010 DATE 30 APR 87 TIME 0939 GMT
 LAT 00 00.7N LONG 109 59.3W WEATHER 6 SEA STATE 2
 BAROMETER 12 WIND DIR 085 T SPD 08 KT VISIBILITY 1
 CLOUD 8 AMOUNT 5 DRY 24.0 WET 24.0 DEPTH 3724 M

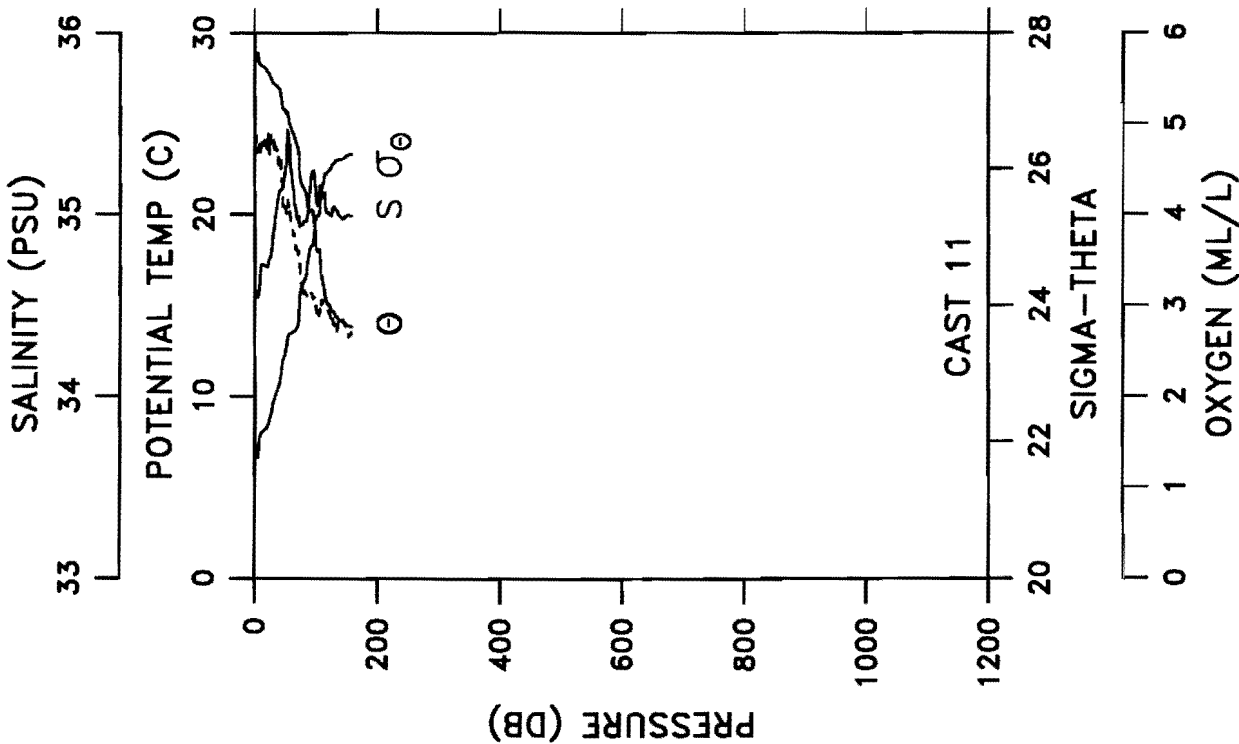


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.138 | 34.700 | 4.73 | 22.126 | 0.000 |
| 10 | 28.100 | 34.695 | 4.95 | 22.134 | 0.057 |
| 20 | 27.183 | 34.852 | 4.96 | 22.550 | 0.113 |
| 30 | 26.888 | 35.096 | 4.90 | 22.828 | 0.164 |
| 40 | 25.822 | 35.139 | 4.43 | 23.195 | 0.214 |
| 50 | 24.849 | 35.311 | 4.13 | 23.624 | 0.258 |
| 60 | 23.749 | 35.003 | 3.70 | 23.719 | 0.300 |
| 70 | 21.794 | 35.017 | 3.14 | 24.290 | 0.339 |
| 80 | 20.629 | 35.274 | 3.31 | 24.805 | 0.373 |
| 90 | 18.298 | 35.080 | 3.07 | 25.260 | 0.403 |
| 100 | 16.782 | 35.101 | 3.12 | 25.645 | 0.429 |
| 110 | 15.450 | 34.994 | 3.10 | 25.868 | 0.451 |
| 120 | 14.729 | 35.033 | 3.01 | 26.058 | 0.472 |
| 130 | 14.382 | 35.022 | 2.78 | 26.124 | 0.491 |
| 140 | 14.100 | 34.989 | 2.92 | 26.158 | 0.510 |
| 150 | 13.908 | 34.992 | 2.72 | 26.201 | 0.529 |
| 160 | 13.780 | 34.987 | 2.51 | 26.224 | 0.547 |
| 170 | 13.764 | 34.984 | 2.67 | 26.225 | 0.566 |
| 180 | 13.761 | 34.984 | 2.57 | 26.225 | 0.584 |
| 190 | 13.651 | 34.972 | 2.56 | 26.239 | 0.602 |
| 200 | 13.470 | 34.957 | 2.49 | 26.235 | 0.621 |
| 250 | 13.116 | 34.927 | 2.08 | 26.314 | 0.709 |
| 300 | 12.032 | 34.857 | 0.60 | 26.472 | 0.795 |
| 350 | 10.238 | 34.752 | 0.33 | 26.718 | 0.870 |
| 400 | 9.575 | 34.713 | 0.43 | 26.800 | 0.937 |
| 450 | 8.246 | 34.642 | 0.84 | 26.956 | 1.000 |
| 500 | 7.719 | 34.615 | 1.14 | 27.013 | 1.057 |
| 550 | 7.284 | 34.597 | 1.23 | 27.062 | 1.112 |
| 600 | 6.502 | 34.569 | 1.46 | 27.147 | 1.165 |
| 650 | 6.182 | 34.562 | 1.54 | 27.184 | 1.214 |
| 700 | 5.813 | 34.556 | 1.58 | 27.226 | 1.262 |
| 750 | 5.589 | 34.553 | 1.66 | 27.251 | 1.309 |
| 800 | 5.363 | 34.552 | 1.74 | 27.278 | 1.353 |
| 900 | 4.804 | 34.552 | 1.87 | 27.343 | 1.439 |
| 1000 | 4.306 | 34.559 | 2.00 | 27.403 | 1.519 |
| 1500 | 2.842 | 34.612 | 2.17 | 27.590 | 1.862 |
| 2000 | 2.078 | 34.647 | 2.54 | 27.683 | 2.138 |
| 2500 | 1.672 | 34.667 | 2.95 | 27.730 | 2.381 |
| 3000 | 1.442 | 34.679 | 3.23 | 27.757 | 2.611 |
| 3500 | 1.253 | 34.690 | 3.49 | 27.779 | 2.833 |
| 3717 | 1.158 | 34.695 | 3.72 | 27.790 | 2.926 |

CAST EP1-87-RS -011 DATE 01 MAY 87 TIME 0213 GMT
LAT 00 01.0N LONG 109 52.9W

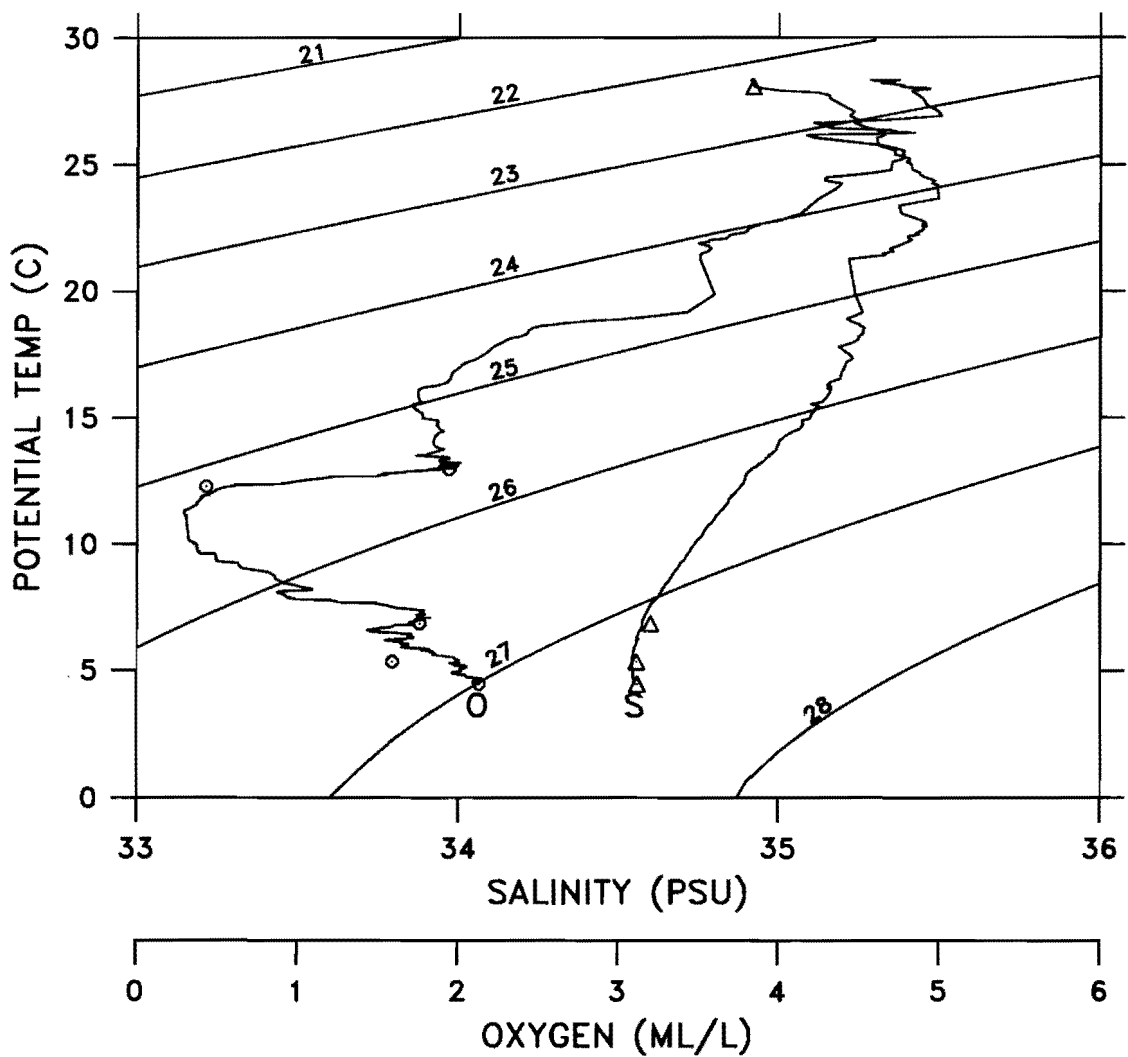


CAST EP1-87-RS -011 DATE 01 MAY 87 TIME 0213 GMT
 LAT 00 01.0N LONG 109 52.9W WEATHER 2 SEA STATE 0
 BAROMETER 12 WIND DIR T SPD 00 KT VISIBILITY 7
 CLOUD X AMOUNT DRY 28.8 WET 25.4 DEPTH 3742 M

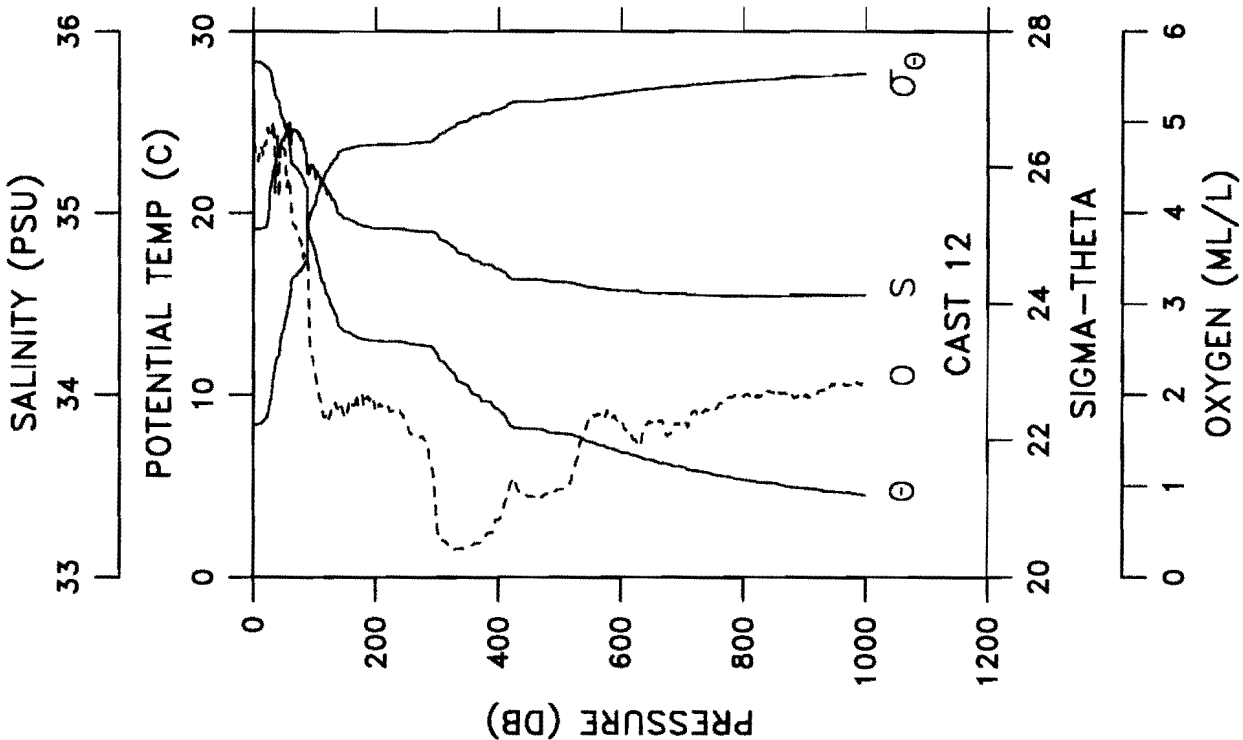


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.425 | 34.581 | 4.88 | 21.942 | 0.000 |
| 10 | 28.227 | 34.717 | 4.72 | 22.110 | 0.059 |
| 20 | 27.906 | 34.713 | 4.71 | 22.212 | 0.115 |
| 30 | 27.202 | 34.897 | 4.83 | 22.578 | 0.170 |
| 40 | 26.923 | 35.126 | 4.61 | 22.839 | 0.222 |
| 50 | 25.712 | 35.252 | 4.09 | 23.315 | 0.269 |
| 60 | 24.664 | 35.214 | 3.84 | 23.607 | 0.313 |
| 70 | 23.681 | 34.971 | 3.56 | 23.715 | 0.356 |
| 80 | 21.402 | 34.960 | 3.14 | 24.355 | 0.394 |
| 90 | 20.118 | 35.135 | 3.13 | 24.835 | 0.428 |
| 100 | 18.210 | 35.079 | 3.00 | 25.281 | 0.458 |
| 110 | 16.432 | 35.104 | 3.02 | 25.729 | 0.483 |
| 120 | 15.052 | 35.008 | 2.92 | 25.967 | 0.505 |
| 130 | 14.554 | 35.029 | 2.78 | 26.092 | 0.525 |
| 140 | 14.194 | 34.985 | 2.86 | 26.135 | 0.544 |
| 150 | 13.942 | 34.993 | 2.73 | 26.195 | 0.563 |
| 158 | 13.856 | 34.991 | 2.72 | 26.211 | 0.578 |

CAST EP1-87-RS -012 DATE 01 MAY 87 TIME 0835 GMT
LAT 00 59.9S LONG 110 00.2W

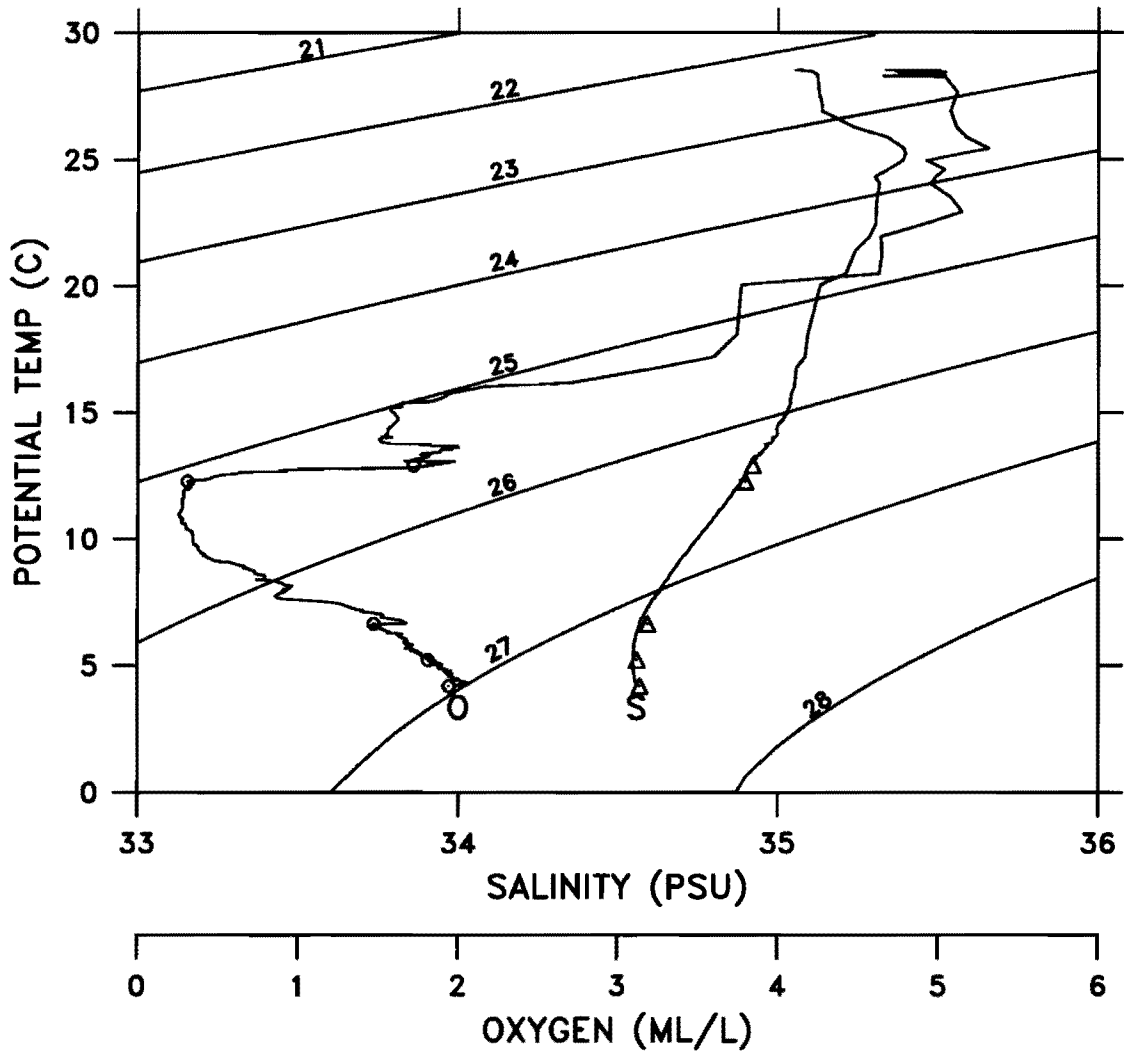


CAST EP1-87-RS -012 DATE 01 MAY 87 TIME 0835 GMT
 LAT 00 59.9S LONG 110 00.2W WEATHER 1 SEA STATE 1
 BAROMETER 01 WIND DIR 095 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.2 WET 25.0 DEPTH 3970 M

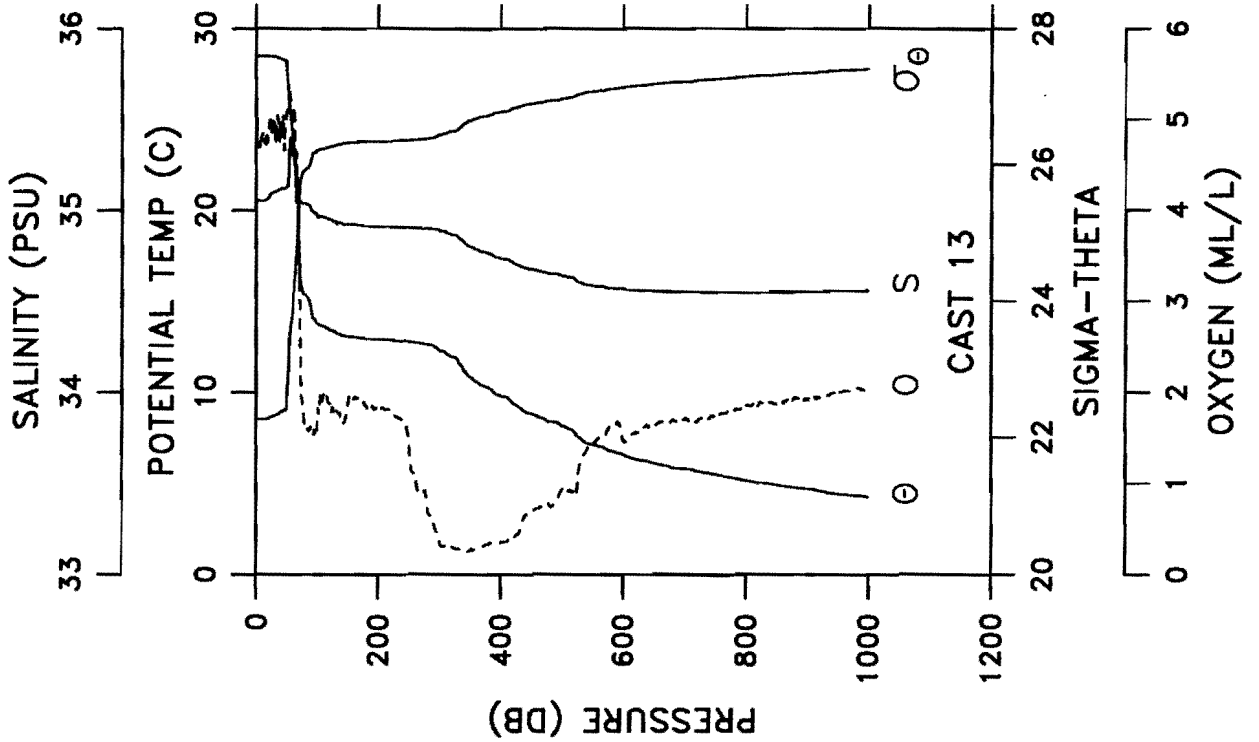


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.330 | 34.913 | 4.75 | 22.223 | 0.000 |
| 10 | 28.298 | 34.913 | 4.73 | 22.233 | 0.056 |
| 20 | 28.077 | 34.922 | 4.78 | 22.313 | 0.112 |
| 30 | 27.594 | 35.159 | 4.89 | 22.648 | 0.165 |
| 40 | 26.205 | 35.330 | 4.57 | 23.220 | 0.214 |
| 50 | 24.975 | 35.412 | 4.70 | 23.662 | 0.258 |
| 60 | 23.377 | 35.373 | 4.19 | 24.108 | 0.299 |
| 70 | 22.489 | 35.448 | 3.82 | 24.422 | 0.335 |
| 80 | 21.950 | 35.405 | 3.56 | 24.541 | 0.369 |
| 90 | 18.904 | 35.212 | 3.05 | 25.209 | 0.402 |
| 100 | 17.952 | 35.227 | 2.27 | 25.459 | 0.428 |
| 110 | 16.384 | 35.160 | 1.93 | 25.783 | 0.452 |
| 120 | 15.531 | 35.101 | 1.72 | 25.932 | 0.474 |
| 130 | 14.722 | 35.076 | 1.86 | 26.092 | 0.494 |
| 140 | 13.759 | 34.992 | 1.91 | 26.232 | 0.513 |
| 150 | 13.498 | 34.971 | 1.74 | 26.270 | 0.531 |
| 160 | 13.368 | 34.958 | 1.94 | 26.287 | 0.549 |
| 170 | 13.166 | 34.940 | 1.90 | 26.313 | 0.566 |
| 180 | 13.066 | 34.928 | 1.88 | 26.325 | 0.584 |
| 190 | 13.019 | 34.921 | 1.93 | 26.329 | 0.601 |
| 200 | 12.983 | 34.916 | 1.85 | 26.332 | 0.619 |
| 250 | 12.888 | 34.908 | 1.68 | 26.345 | 0.706 |
| 300 | 12.332 | 34.883 | 0.62 | 26.435 | 0.792 |
| 350 | 10.522 | 34.788 | 0.32 | 26.680 | 0.868 |
| 400 | 9.195 | 34.690 | 0.63 | 26.844 | 0.935 |
| 450 | 8.134 | 34.633 | 0.89 | 26.966 | 0.995 |
| 500 | 7.866 | 34.621 | 0.97 | 26.997 | 1.053 |
| 550 | 7.404 | 34.591 | 1.74 | 27.040 | 1.110 |
| 600 | 6.849 | 34.572 | 1.71 | 27.103 | 1.164 |
| 650 | 6.442 | 34.561 | 1.69 | 27.149 | 1.215 |
| 700 | 6.052 | 34.555 | 1.65 | 27.195 | 1.264 |
| 750 | 5.667 | 34.547 | 1.86 | 27.237 | 1.311 |
| 800 | 5.347 | 34.543 | 1.98 | 27.272 | 1.357 |
| 900 | 4.886 | 34.547 | 1.98 | 27.330 | 1.444 |
| 1000 | 4.506 | 34.550 | 2.12 | 27.374 | 1.526 |
| 1002 | 4.489 | 34.550 | 2.12 | 27.376 | 1.528 |

CAST EP1-87-RS -013 DATE 01 MAY 87 TIME 1428 GMT
LAT 01 59.9S LONG 109 59.6W

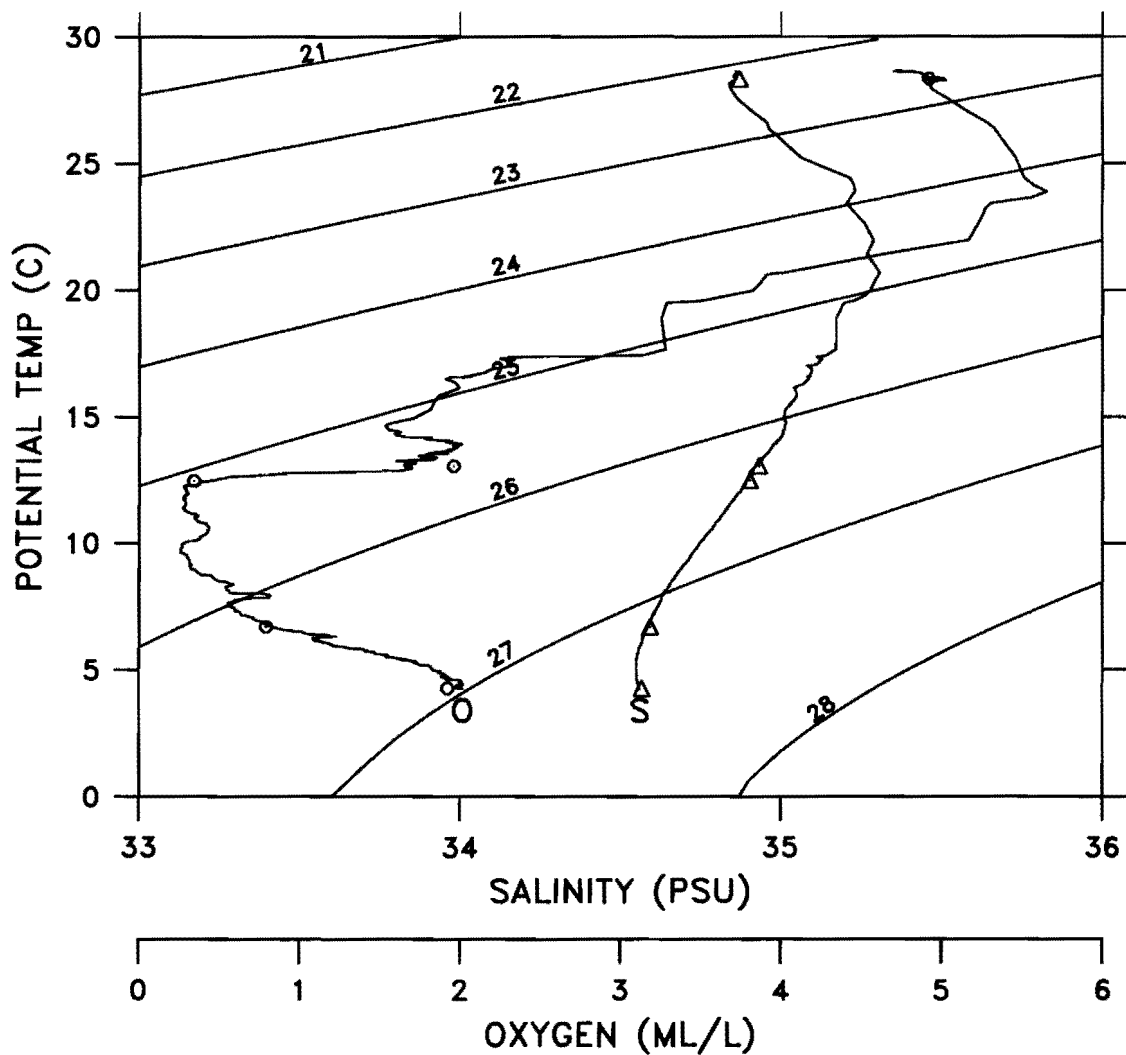


CAST EP1-87-RS -013 DATE 01 MAY 87 TIME 1428 GMT
 LAT 01 59.9S LONG 109 59.6W WEATHER 1 SEA STATE 1
 BAROMETER 12 WIND DIR 155 T SPD 03 KT VISIBILITY 7
 CLOUD 9 AMOUNT 2 DRY 27.5 WET 25.5 DEPTH 3916 M

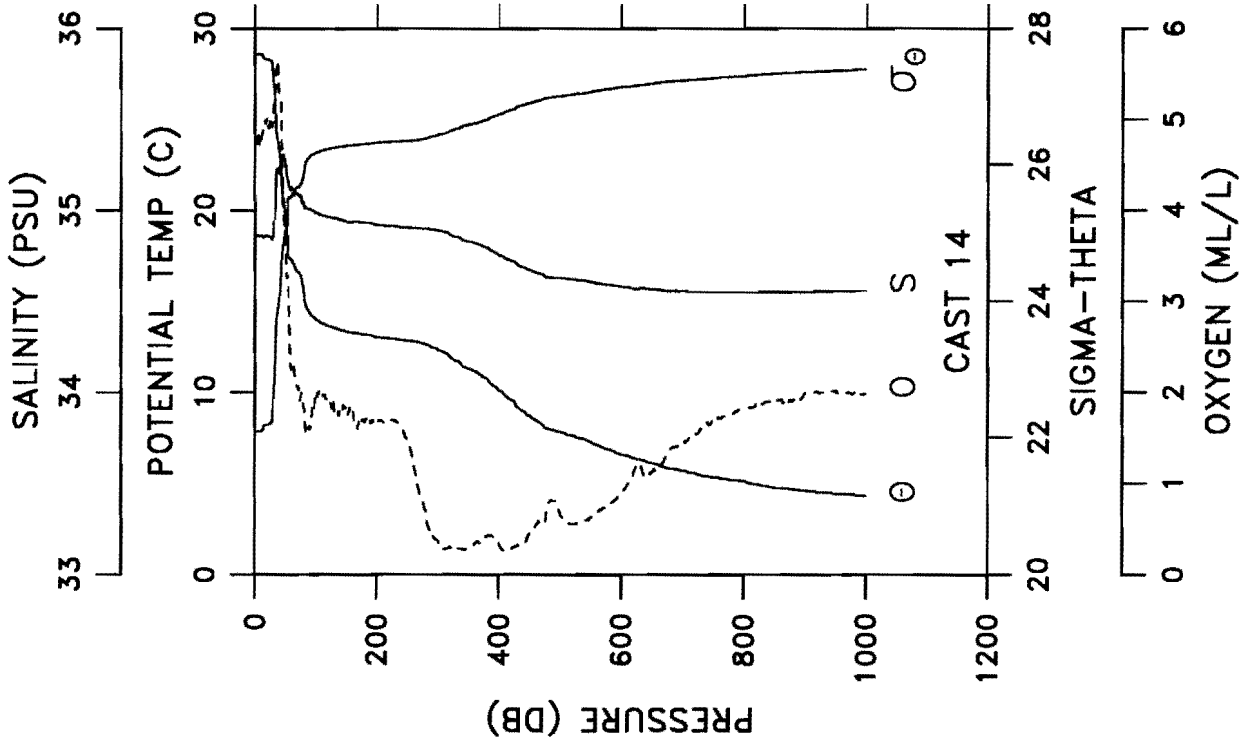


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.508 | 35.056 | 4.87 | 22.272 | 0.000 |
| 10 | 28.511 | 35.055 | 4.83 | 22.271 | 0.056 |
| 20 | 28.508 | 35.069 | 4.82 | 22.281 | 0.111 |
| 30 | 28.466 | 35.103 | 4.98 | 22.321 | 0.166 |
| 40 | 28.357 | 35.119 | 4.97 | 22.369 | 0.221 |
| 50 | 27.643 | 35.127 | 5.12 | 22.609 | 0.276 |
| 60 | 24.032 | 35.317 | 4.95 | 23.873 | 0.321 |
| 70 | 17.187 | 35.084 | 3.60 | 25.535 | 0.355 |
| 80 | 15.347 | 35.039 | 1.63 | 25.926 | 0.377 |
| 90 | 14.548 | 35.001 | 1.59 | 26.072 | 0.397 |
| 100 | 13.775 | 34.972 | 1.60 | 26.214 | 0.416 |
| 110 | 13.630 | 34.963 | 1.96 | 26.237 | 0.434 |
| 120 | 13.444 | 34.951 | 1.88 | 26.265 | 0.452 |
| 130 | 13.318 | 34.941 | 1.78 | 26.283 | 0.470 |
| 140 | 13.154 | 34.929 | 1.72 | 26.307 | 0.487 |
| 150 | 13.073 | 34.923 | 1.84 | 26.319 | 0.505 |
| 160 | 13.060 | 34.923 | 1.92 | 26.322 | 0.522 |
| 170 | 12.995 | 34.918 | 1.90 | 26.331 | 0.539 |
| 180 | 12.950 | 34.914 | 1.85 | 26.337 | 0.557 |
| 190 | 12.934 | 34.913 | 1.82 | 26.339 | 0.574 |
| 200 | 12.926 | 34.912 | 1.82 | 26.340 | 0.591 |
| 250 | 12.802 | 34.907 | 1.47 | 26.361 | 0.678 |
| 300 | 12.338 | 34.890 | 0.38 | 26.440 | 0.763 |
| 350 | 10.851 | 34.800 | 0.27 | 26.647 | 0.842 |
| 400 | 9.798 | 34.735 | 0.35 | 26.779 | 0.913 |
| 450 | 8.907 | 34.677 | 0.68 | 26.896 | 0.977 |
| 500 | 8.156 | 34.642 | 0.93 | 26.969 | 1.038 |
| 550 | 7.114 | 34.587 | 1.39 | 27.078 | 1.093 |
| 600 | 6.591 | 34.571 | 1.47 | 27.137 | 1.146 |
| 650 | 6.133 | 34.557 | 1.64 | 27.186 | 1.195 |
| 700 | 5.820 | 34.553 | 1.70 | 27.222 | 1.242 |
| 750 | 5.506 | 34.550 | 1.75 | 27.259 | 1.288 |
| 800 | 5.157 | 34.549 | 1.84 | 27.299 | 1.332 |
| 800 | 4.713 | 34.551 | 1.94 | 27.353 | 1.416 |
| 1000 | 4.258 | 34.560 | 2.01 | 27.409 | 1.495 |
| 1010 | 4.198 | 34.562 | 2.00 | 27.417 | 1.503 |

CAST EP1-87-RS -014 DATE 01 MAY 87 TIME 2043 GMT
LAT 02 59.9S LONG 109 59.7W

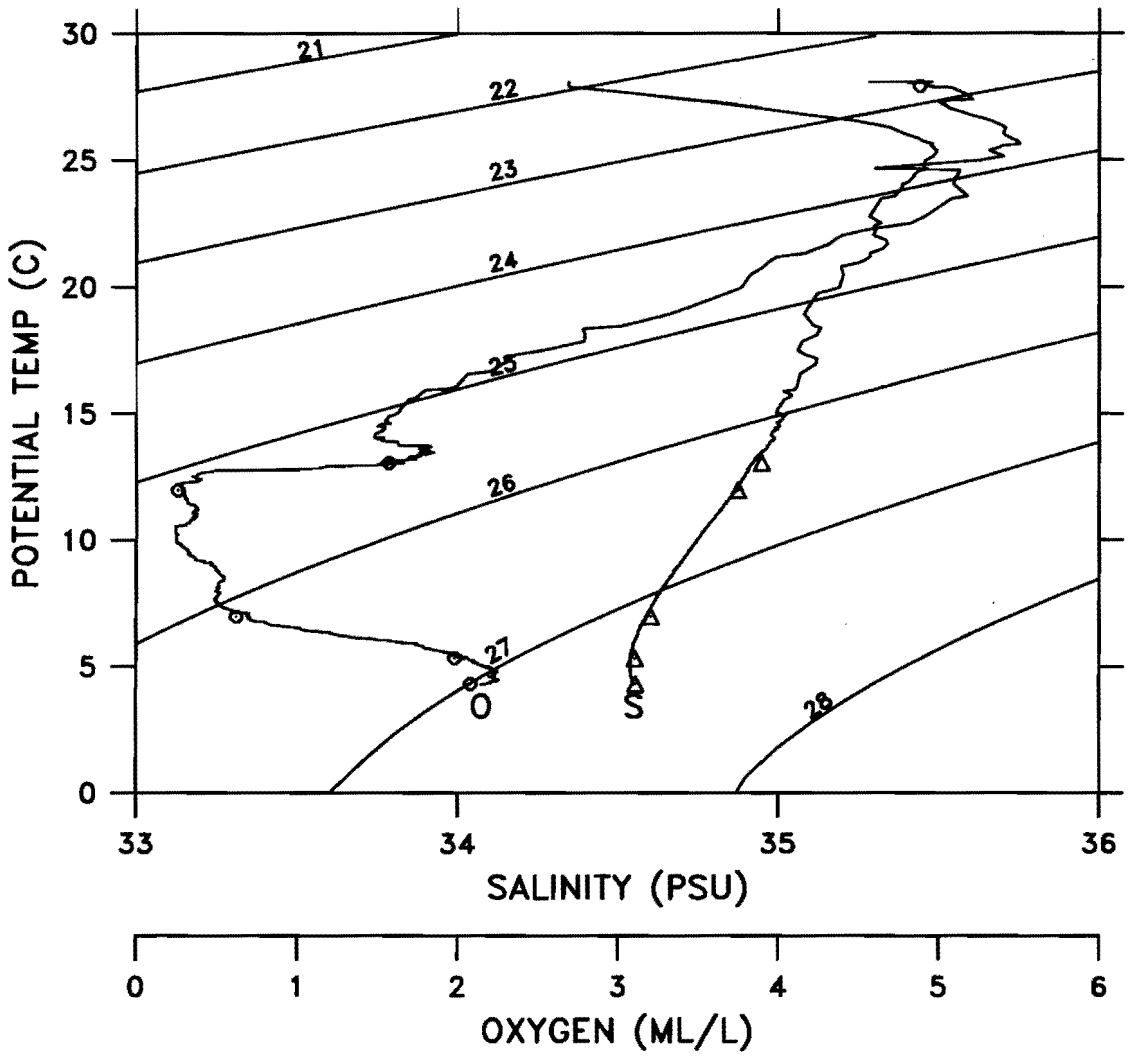


CAST EP1-87-RS -014 DATE 01 MAY 87 TIME 2043 GMT
 LAT 02 59.9S LONG 109 59.7W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 140 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 28.0 WET 26.0 DEPTH 3811 M

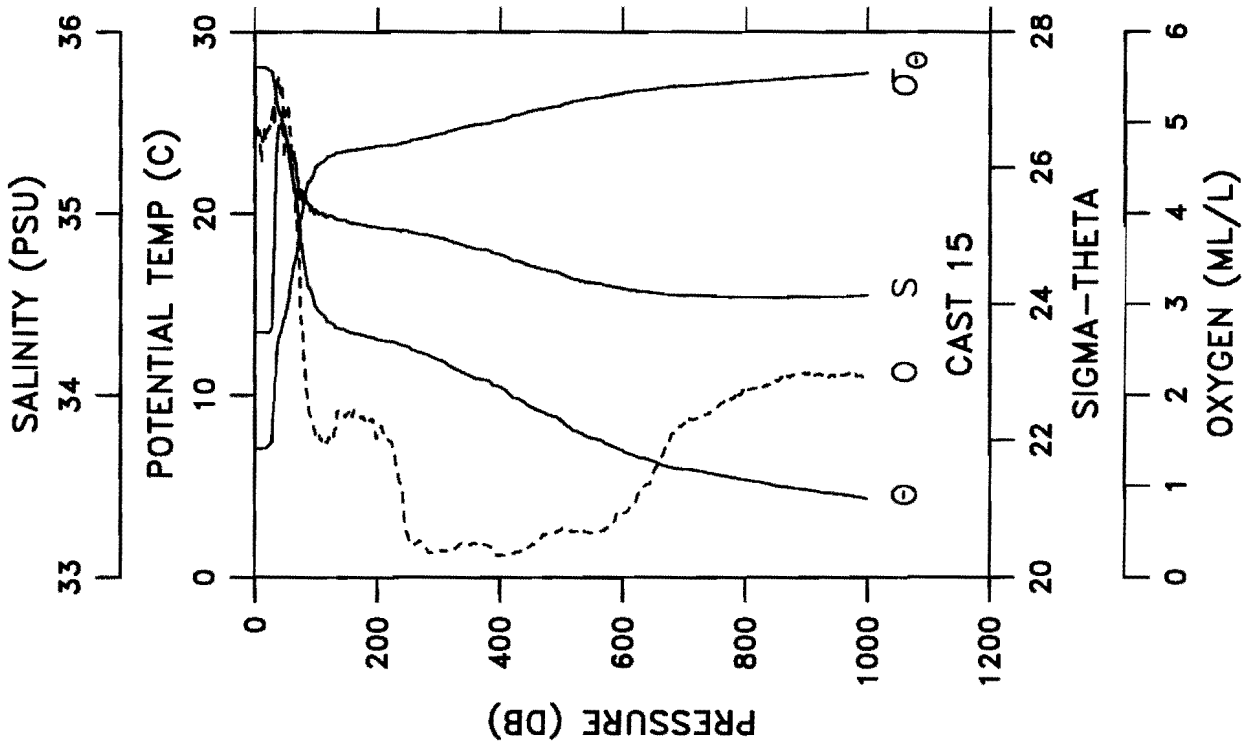


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.595 | 34.859 | 4.82 | 22.095 | 0.000 |
| 10 | 28.617 | 34.859 | 4.75 | 22.088 | 0.057 |
| 20 | 28.320 | 34.861 | 5.02 | 22.187 | 0.114 |
| 30 | 27.502 | 34.867 | 5.04 | 22.458 | 0.170 |
| 40 | 23.191 | 35.218 | 5.27 | 24.045 | 0.215 |
| 50 | 19.774 | 35.259 | 3.66 | 25.020 | 0.248 |
| 60 | 17.292 | 35.128 | 2.25 | 25.543 | 0.274 |
| 70 | 16.619 | 35.091 | 2.05 | 25.675 | 0.298 |
| 80 | 15.623 | 35.038 | 1.84 | 25.863 | 0.321 |
| 90 | 14.333 | 35.008 | 1.59 | 26.123 | 0.341 |
| 100 | 14.004 | 34.990 | 1.91 | 26.179 | 0.360 |
| 110 | 13.798 | 34.974 | 1.98 | 26.210 | 0.378 |
| 120 | 13.650 | 34.963 | 1.95 | 26.232 | 0.396 |
| 130 | 13.540 | 34.958 | 1.83 | 26.251 | 0.414 |
| 140 | 13.432 | 34.949 | 1.79 | 26.267 | 0.432 |
| 150 | 13.323 | 34.938 | 1.83 | 26.280 | 0.450 |
| 160 | 13.275 | 34.934 | 1.78 | 26.287 | 0.468 |
| 170 | 13.234 | 34.937 | 1.63 | 26.297 | 0.486 |
| 180 | 13.172 | 34.932 | 1.67 | 26.306 | 0.503 |
| 190 | 13.130 | 34.931 | 1.65 | 26.314 | 0.521 |
| 200 | 13.030 | 34.920 | 1.67 | 26.325 | 0.538 |
| 250 | 12.838 | 34.906 | 1.49 | 26.353 | 0.625 |
| 300 | 12.328 | 34.890 | 0.38 | 26.441 | 0.711 |
| 350 | 11.307 | 34.829 | 0.28 | 26.586 | 0.791 |
| 400 | 10.103 | 34.754 | 0.35 | 26.742 | 0.864 |
| 450 | 8.721 | 34.673 | 0.45 | 26.907 | 0.929 |
| 500 | 7.825 | 34.629 | 0.68 | 27.008 | 0.988 |
| 550 | 7.278 | 34.607 | 0.63 | 27.071 | 1.043 |
| 600 | 6.581 | 34.581 | 0.90 | 27.146 | 1.095 |
| 650 | 6.114 | 34.567 | 1.12 | 27.196 | 1.144 |
| 700 | 5.707 | 34.556 | 1.44 | 27.238 | 1.191 |
| 750 | 5.355 | 34.549 | 1.68 | 27.276 | 1.236 |
| 800 | 5.137 | 34.549 | 1.81 | 27.302 | 1.279 |
| 900 | 4.609 | 34.550 | 1.99 | 27.363 | 1.362 |
| 1000 | 4.317 | 34.558 | 1.98 | 27.401 | 1.441 |
| 1019 | 4.255 | 34.558 | 2.01 | 27.408 | 1.455 |

CAST EP1-87-RS -015 DATE 02 MAY 87 TIME 0251 GMT
LAT 03 59.5S LONG 110 01.6W

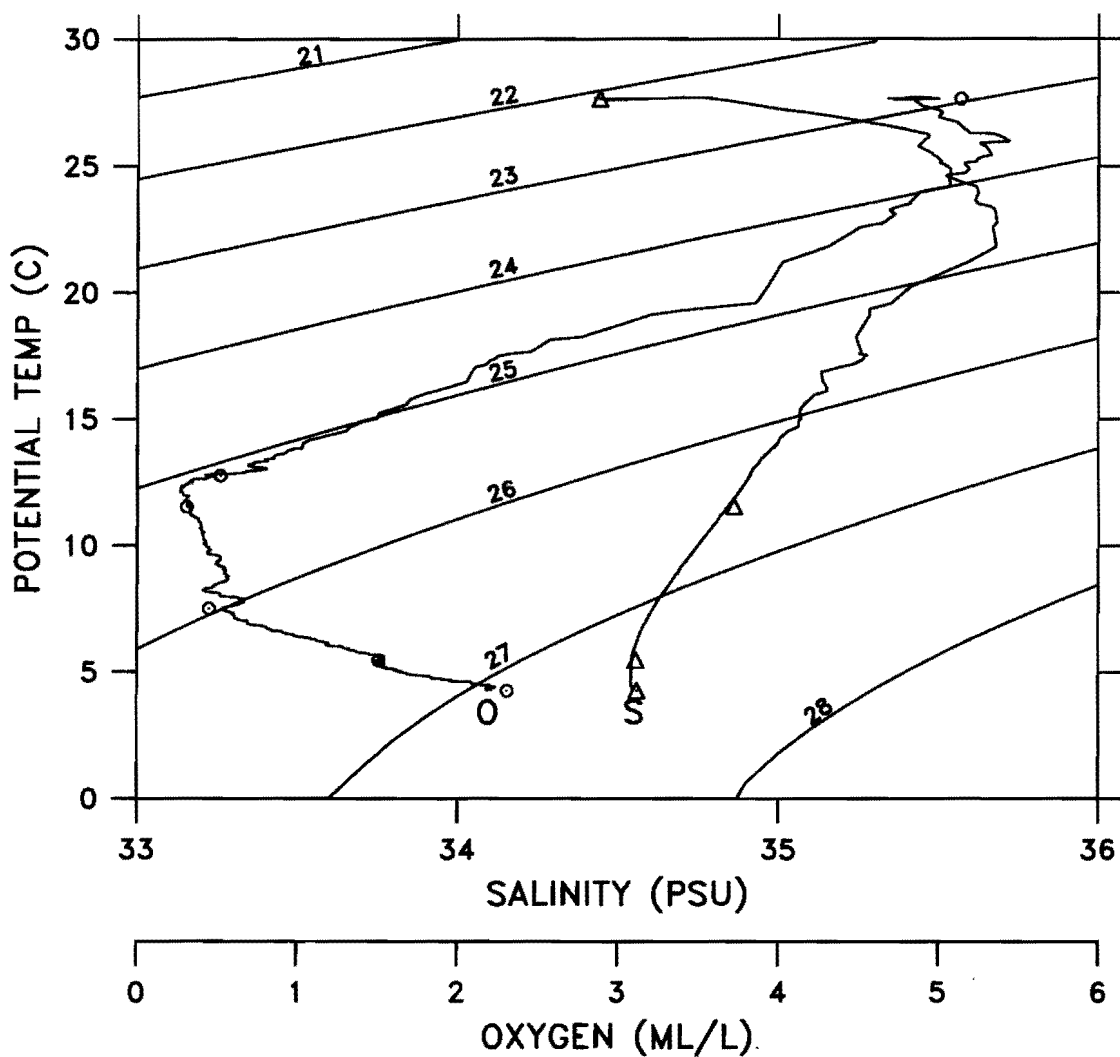


CAST EP1-87-RS -015 DATE 02 MAY 87 TIME 0251 GMT
 LAT 03 59.5S LONG 110 01.6W WEATHER 2 SEA STATE 2
 BAROMETER 12 WIND DIR 125 T SPD 12 KT VISIBILITY 7
 CLOUD X AMOUNT DRY 27.5 WET 25.5 DEPTH 3688 M

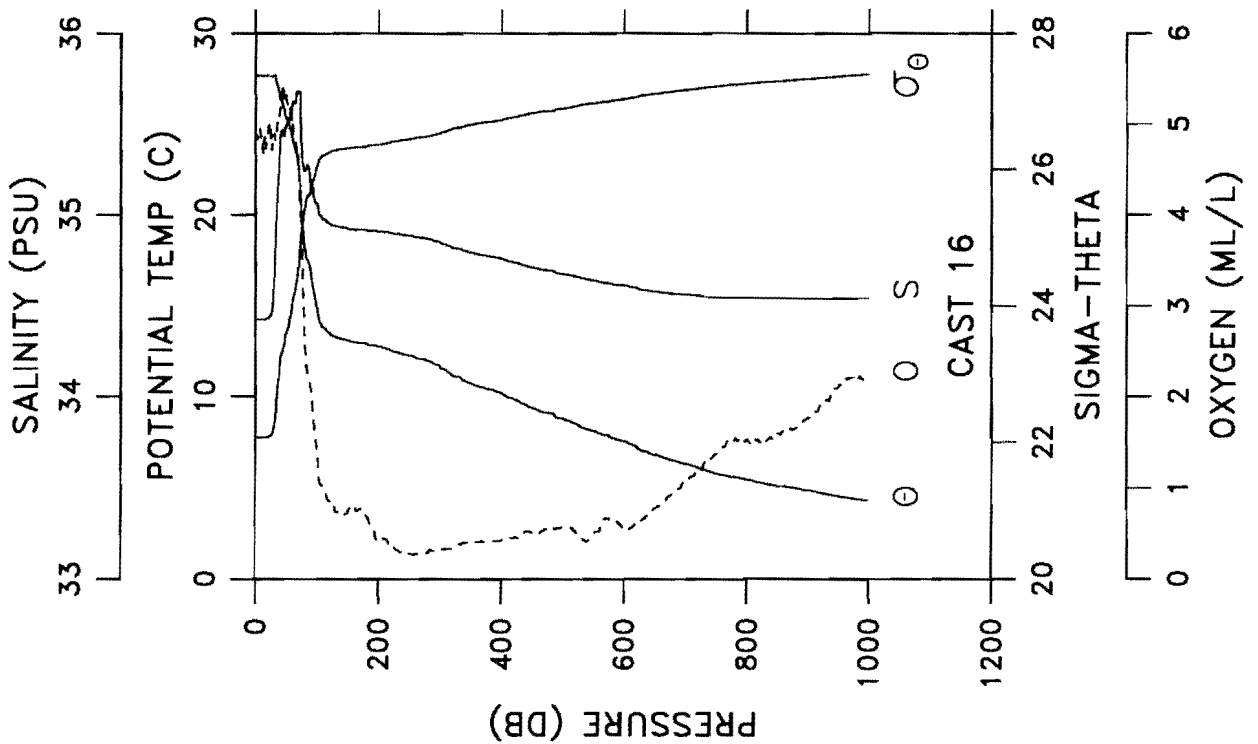


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.074 | 34.346 | 4.86 | 21.881 | 0.000 |
| 10 | 28.058 | 34.347 | 4.83 | 21.887 | 0.059 |
| 20 | 28.001 | 34.346 | 4.92 | 21.905 | 0.118 |
| 30 | 27.366 | 34.727 | 5.21 | 22.397 | 0.177 |
| 40 | 25.553 | 35.476 | 5.40 | 23.533 | 0.225 |
| 50 | 24.349 | 35.421 | 5.11 | 23.858 | 0.267 |
| 60 | 22.238 | 35.303 | 4.54 | 24.382 | 0.305 |
| 70 | 19.966 | 35.180 | 3.77 | 24.917 | 0.338 |
| 80 | 17.304 | 35.083 | 2.36 | 25.506 | 0.366 |
| 90 | 15.874 | 35.017 | 1.79 | 25.790 | 0.389 |
| 100 | 14.858 | 35.014 | 1.57 | 26.015 | 0.410 |
| 110 | 14.465 | 35.003 | 1.54 | 26.092 | 0.430 |
| 120 | 14.028 | 34.990 | 1.53 | 26.175 | 0.449 |
| 130 | 13.865 | 34.975 | 1.62 | 26.196 | 0.467 |
| 140 | 13.655 | 34.964 | 1.82 | 26.232 | 0.486 |
| 150 | 13.538 | 34.957 | 1.79 | 26.251 | 0.504 |
| 160 | 13.425 | 34.948 | 1.79 | 26.267 | 0.522 |
| 170 | 13.359 | 34.943 | 1.77 | 26.277 | 0.540 |
| 180 | 13.266 | 34.937 | 1.70 | 26.281 | 0.557 |
| 190 | 13.180 | 34.926 | 1.71 | 26.300 | 0.575 |
| 200 | 13.062 | 34.923 | 1.60 | 26.322 | 0.593 |
| 250 | 12.663 | 34.905 | 0.46 | 26.387 | 0.679 |
| 300 | 11.941 | 34.869 | 0.29 | 26.499 | 0.762 |
| 350 | 11.082 | 34.818 | 0.36 | 26.617 | 0.839 |
| 400 | 10.460 | 34.776 | 0.24 | 26.698 | 0.913 |
| 450 | 9.357 | 34.712 | 0.35 | 26.835 | 0.981 |
| 500 | 8.570 | 34.667 | 0.53 | 26.926 | 1.044 |
| 550 | 7.624 | 34.618 | 0.49 | 27.029 | 1.102 |
| 600 | 6.957 | 34.586 | 0.70 | 27.099 | 1.157 |
| 650 | 6.359 | 34.563 | 1.14 | 27.161 | 1.208 |
| 700 | 5.919 | 34.547 | 1.69 | 27.205 | 1.256 |
| 750 | 5.654 | 34.544 | 1.85 | 27.236 | 1.303 |
| 800 | 5.336 | 34.538 | 2.02 | 27.270 | 1.349 |
| 900 | 4.803 | 34.538 | 2.23 | 27.332 | 1.435 |
| 1000 | 4.303 | 34.549 | 2.17 | 27.395 | 1.516 |
| 1008 | 4.289 | 34.549 | 2.15 | 27.397 | 1.522 |

CAST EP1-87-RS -016 DATE 02 MAY 87 TIME 0900 GMT
LAT 05 00.6S LONG 110 01.6W

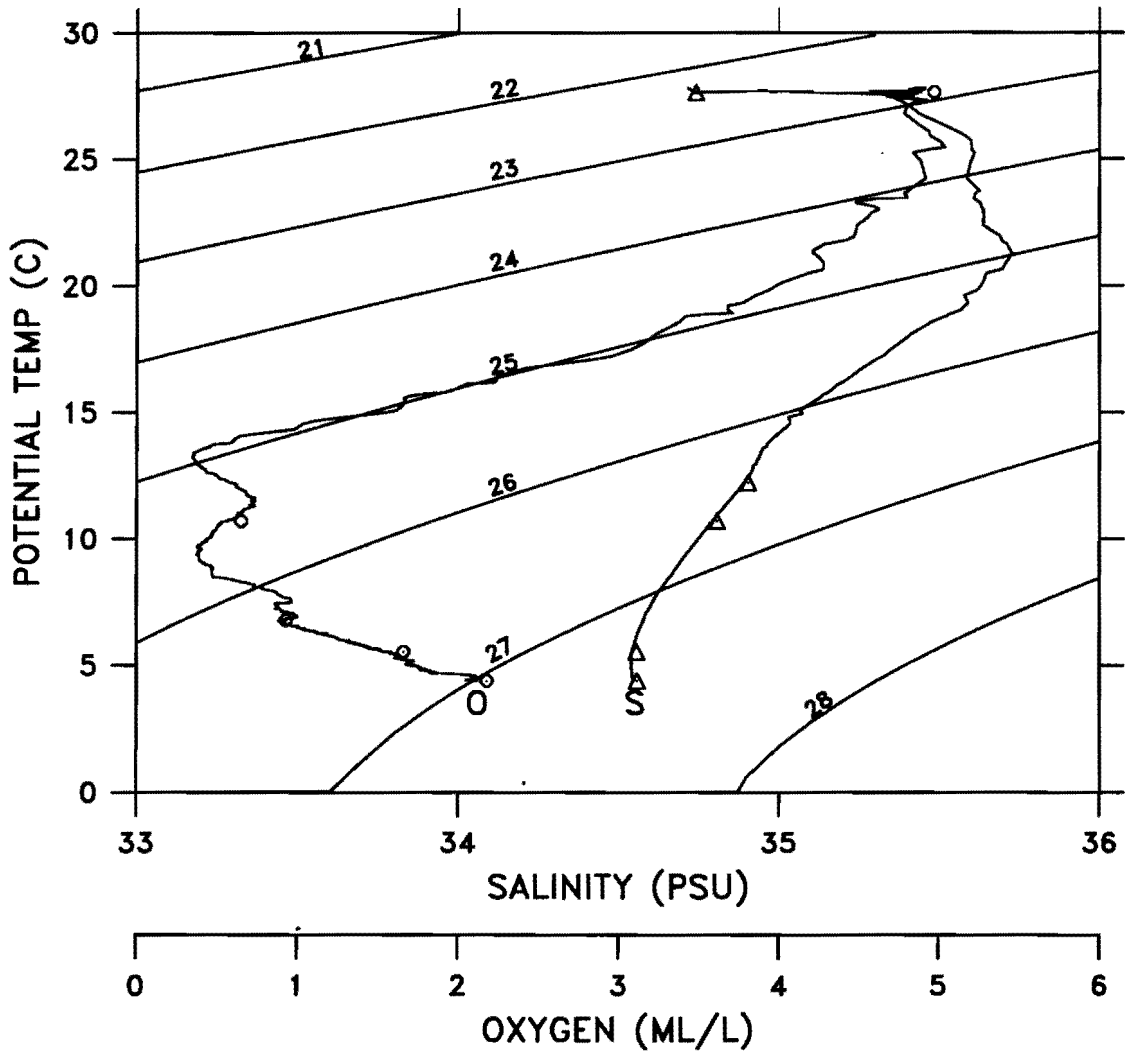


CAST EP1-87-RS -016 DATE 02 MAY 87 TIME 0900 GMT
 LAT 05 00.6S LONG 110 01.6W WEATHER 0 SEA STATE 2
 BAROMETER 11 WIND DIR 140 T SPD 15 KT VISIBILITY 7
 CLOUD X AMOUNT 1 DRY 27.1 WET 24.5 DEPTH 3620 M

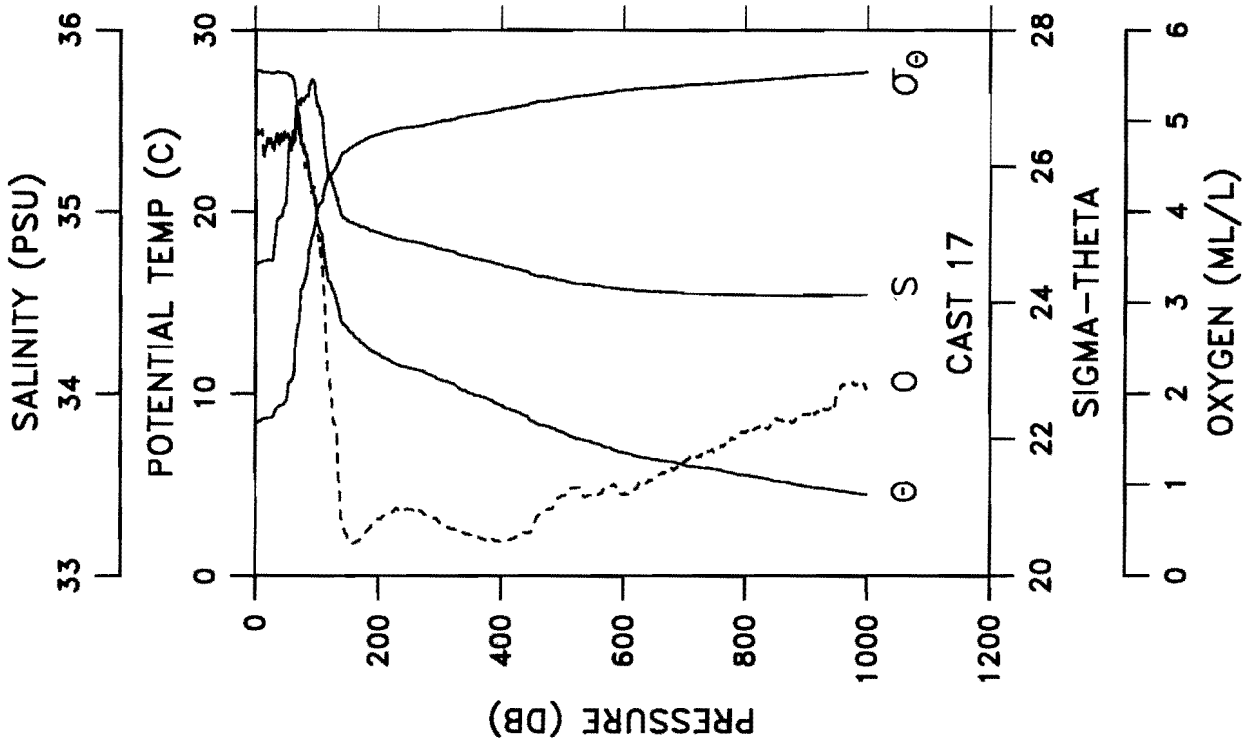


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.668 | 34.428 | 4.91 | 22.074 | 0.000 |
| 10 | 27.668 | 34.427 | 4.80 | 22.074 | 0.057 |
| 20 | 27.663 | 34.435 | 4.90 | 22.082 | 0.115 |
| 30 | 27.661 | 34.607 | 4.87 | 22.212 | 0.172 |
| 40 | 26.482 | 35.381 | 5.16 | 23.171 | 0.224 |
| 50 | 25.369 | 35.492 | 5.28 | 23.602 | 0.269 |
| 60 | 24.208 | 35.618 | 5.07 | 24.049 | 0.310 |
| 70 | 22.585 | 35.669 | 4.50 | 24.562 | 0.347 |
| 80 | 18.139 | 35.244 | 2.58 | 25.425 | 0.376 |
| 90 | 16.863 | 35.133 | 2.09 | 25.650 | 0.400 |
| 100 | 14.916 | 35.061 | 1.41 | 26.038 | 0.422 |
| 110 | 13.826 | 34.978 | 0.98 | 26.207 | 0.441 |
| 120 | 13.535 | 34.954 | 0.86 | 26.249 | 0.459 |
| 130 | 13.311 | 34.941 | 0.74 | 26.285 | 0.477 |
| 140 | 13.192 | 34.931 | 0.71 | 26.302 | 0.494 |
| 150 | 13.115 | 34.926 | 0.72 | 26.313 | 0.512 |
| 160 | 13.027 | 34.920 | 0.81 | 26.326 | 0.529 |
| 170 | 12.983 | 34.917 | 0.76 | 26.333 | 0.546 |
| 180 | 12.939 | 34.916 | 0.69 | 26.340 | 0.564 |
| 190 | 12.839 | 34.913 | 0.56 | 26.358 | 0.581 |
| 200 | 12.776 | 34.911 | 0.45 | 26.369 | 0.598 |
| 250 | 12.286 | 34.887 | 0.28 | 26.446 | 0.681 |
| 300 | 11.702 | 34.850 | 0.31 | 26.530 | 0.762 |
| 350 | 10.754 | 34.794 | 0.40 | 26.660 | 0.837 |
| 400 | 10.199 | 34.761 | 0.43 | 26.731 | 0.908 |
| 450 | 9.400 | 34.712 | 0.51 | 26.828 | 0.976 |
| 500 | 8.795 | 34.677 | 0.57 | 26.898 | 1.040 |
| 550 | 8.139 | 34.640 | 0.49 | 26.971 | 1.100 |
| 600 | 7.566 | 34.612 | 0.55 | 27.033 | 1.158 |
| 650 | 6.828 | 34.579 | 0.77 | 27.111 | 1.212 |
| 700 | 6.341 | 34.562 | 1.07 | 27.163 | 1.263 |
| 750 | 5.804 | 34.548 | 1.37 | 27.221 | 1.312 |
| 800 | 5.464 | 34.544 | 1.53 | 27.259 | 1.358 |
| 900 | 4.857 | 34.542 | 1.77 | 27.328 | 1.446 |
| 1000 | 4.322 | 34.546 | 2.20 | 27.391 | 1.527 |
| 1007 | 4.291 | 34.548 | 2.19 | 27.396 | 1.532 |

CAST EP1-87-RS -017 DATE 02 MAY 87 TIME 2224 GMT
LAT 05 59.8S LONG 110 00.4W

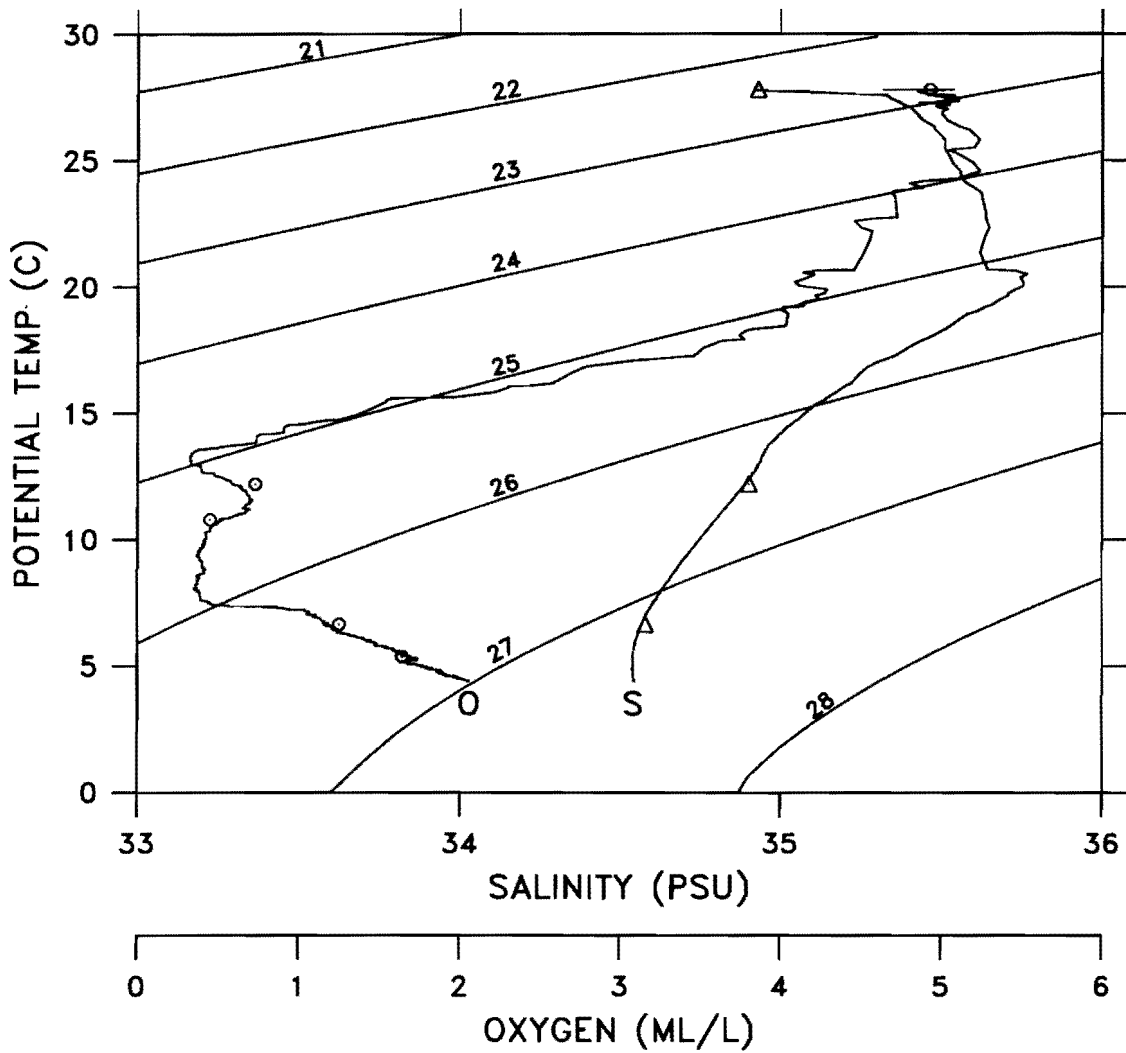


CAST EP1-87-RS -017 DATE 02 MAY 87 TIME 2224 GMT
 LAT 05 59.8S LONG 110 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 118 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.8 WET 24.0 DEPTH 3414 M

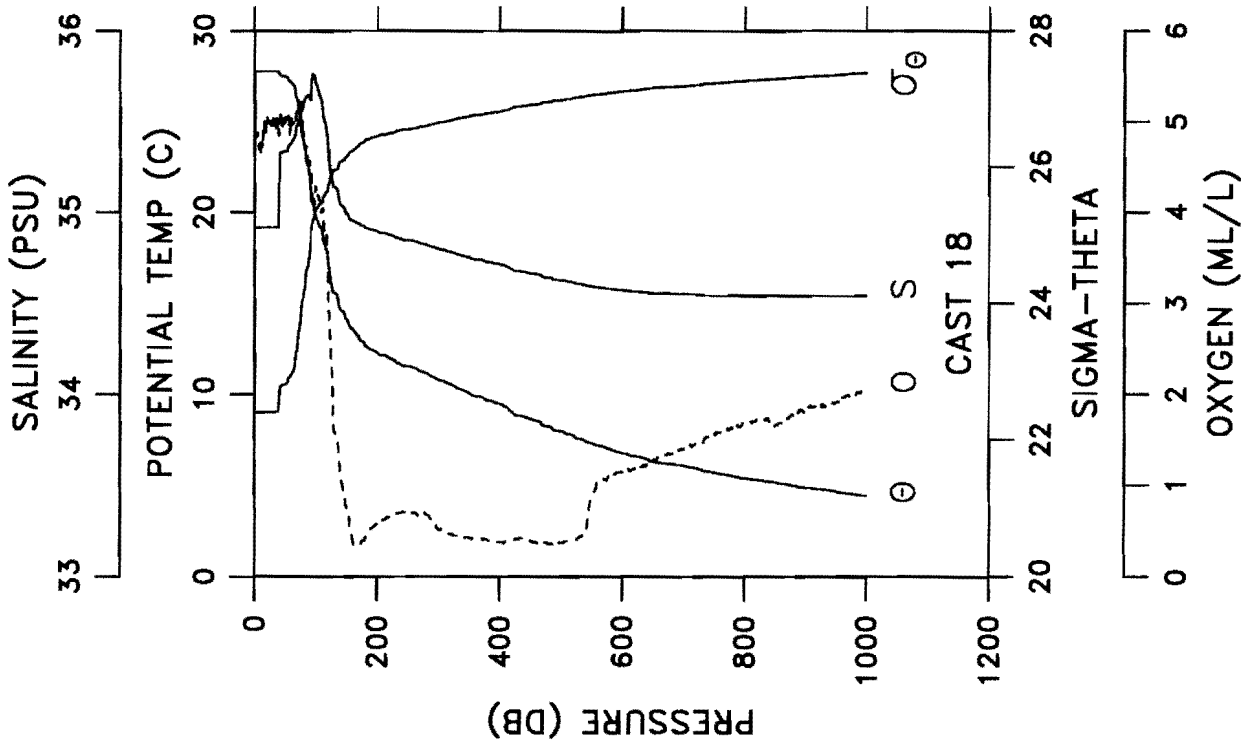


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.813 | 34.714 | 4.91 | 22.243 | 0.000 |
| 10 | 27.741 | 34.722 | 4.91 | 22.272 | 0.056 |
| 20 | 27.664 | 34.736 | 4.83 | 22.307 | 0.111 |
| 30 | 27.640 | 34.792 | 4.70 | 22.358 | 0.166 |
| 40 | 27.656 | 34.973 | 4.85 | 22.488 | 0.220 |
| 50 | 27.642 | 35.060 | 4.89 | 22.559 | 0.274 |
| 60 | 27.565 | 35.567 | 4.85 | 22.879 | 0.325 |
| 70 | 25.357 | 35.603 | 4.94 | 23.689 | 0.371 |
| 80 | 23.519 | 35.625 | 4.48 | 24.317 | 0.409 |
| 90 | 21.626 | 35.712 | 4.28 | 24.865 | 0.443 |
| 100 | 19.612 | 35.580 | 3.85 | 25.307 | 0.472 |
| 110 | 18.114 | 35.417 | 3.23 | 25.564 | 0.498 |
| 120 | 16.157 | 35.195 | 2.17 | 25.862 | 0.521 |
| 130 | 15.326 | 35.096 | 1.66 | 25.974 | 0.542 |
| 140 | 13.982 | 34.960 | 1.66 | 26.176 | 0.562 |
| 150 | 13.588 | 34.946 | 0.61 | 26.232 | 0.580 |
| 160 | 13.175 | 34.936 | 0.35 | 26.309 | 0.598 |
| 170 | 12.852 | 34.917 | 0.40 | 26.359 | 0.615 |
| 180 | 12.590 | 34.912 | 0.48 | 26.406 | 0.632 |
| 190 | 12.334 | 34.895 | 0.56 | 26.444 | 0.648 |
| 200 | 12.159 | 34.887 | 0.62 | 26.471 | 0.664 |
| 250 | 11.406 | 34.837 | 0.73 | 26.575 | 0.742 |
| 300 | 10.769 | 34.796 | 0.58 | 26.658 | 0.816 |
| 350 | 10.028 | 34.749 | 0.45 | 26.752 | 0.887 |
| 400 | 9.370 | 34.709 | 0.39 | 26.830 | 0.953 |
| 450 | 8.494 | 34.657 | 0.49 | 26.930 | 1.016 |
| 500 | 7.895 | 34.623 | 0.87 | 26.994 | 1.075 |
| 550 | 7.319 | 34.597 | 0.87 | 27.057 | 1.130 |
| 600 | 6.754 | 34.575 | 0.89 | 27.118 | 1.183 |
| 650 | 6.390 | 34.561 | 1.06 | 27.156 | 1.234 |
| 700 | 6.078 | 34.553 | 1.25 | 27.190 | 1.284 |
| 750 | 5.842 | 34.547 | 1.36 | 27.215 | 1.331 |
| 800 | 5.506 | 34.540 | 1.57 | 27.251 | 1.378 |
| 850 | 4.885 | 34.540 | 1.77 | 27.324 | 1.467 |
| 900 | 4.418 | 34.545 | 2.05 | 27.380 | 1.549 |
| 1000 | 4.381 | 34.546 | 2.12 | 27.385 | 1.555 |
| 1008 | | | | | |

CAST EP1-87-RS -018 DATE 03 MAY 87 TIME 0413 GMT
LAT 06 59.8S LONG 110 00.4W

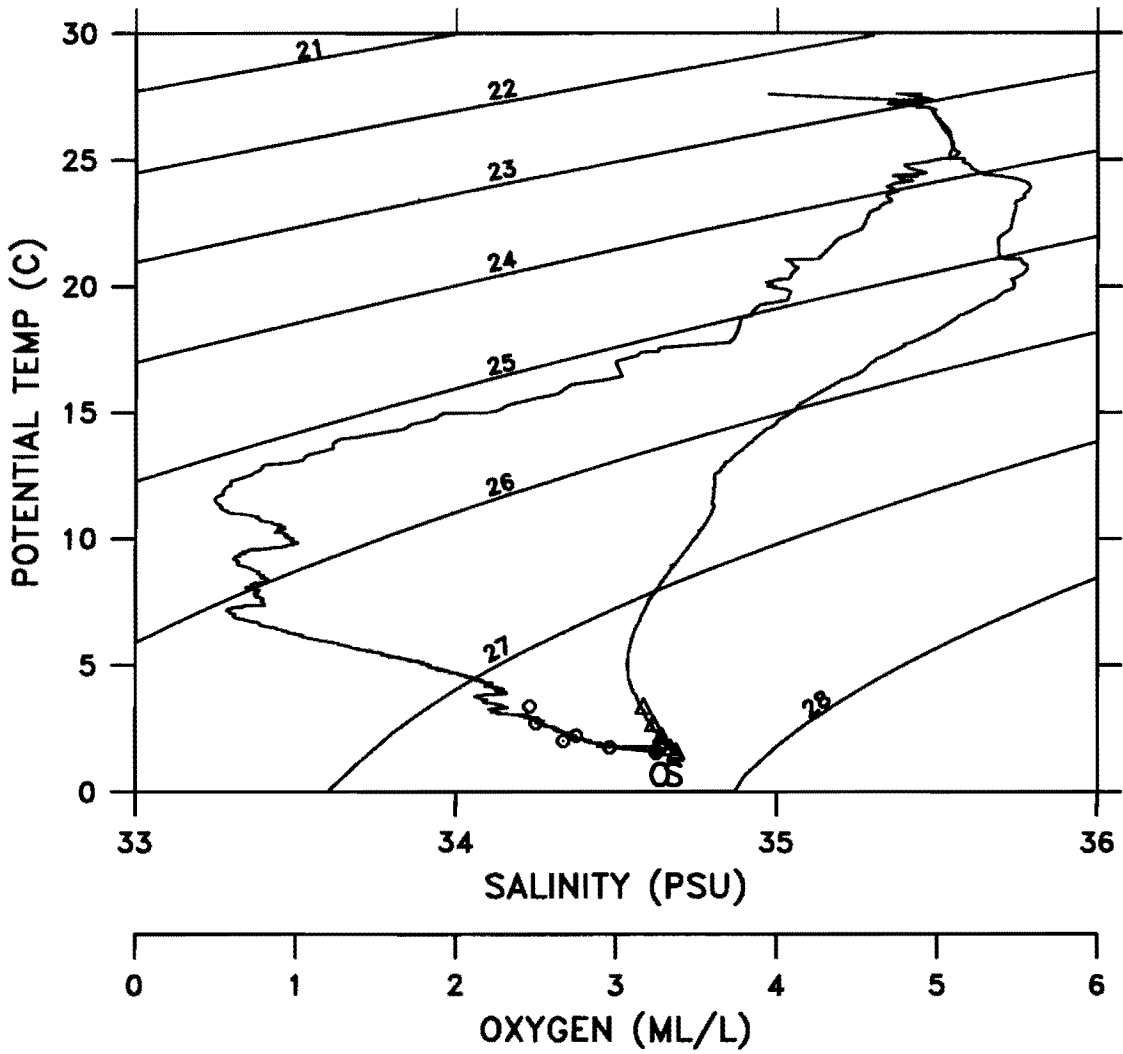


CAST EPI-87-RS -018 DATE 03 MAY 87 TIME 0413 GMT
 LAT 06 59.8S LONG 110 00.4W WEATHER 2 SEA STATE 3
 BAROMETER 11 WIND DIR 100 T SPD 14 KT VISIBILITY 7
 CLOUD X AMOUNT DRY 27.0 WET 26.4 DEPTH 3523 M

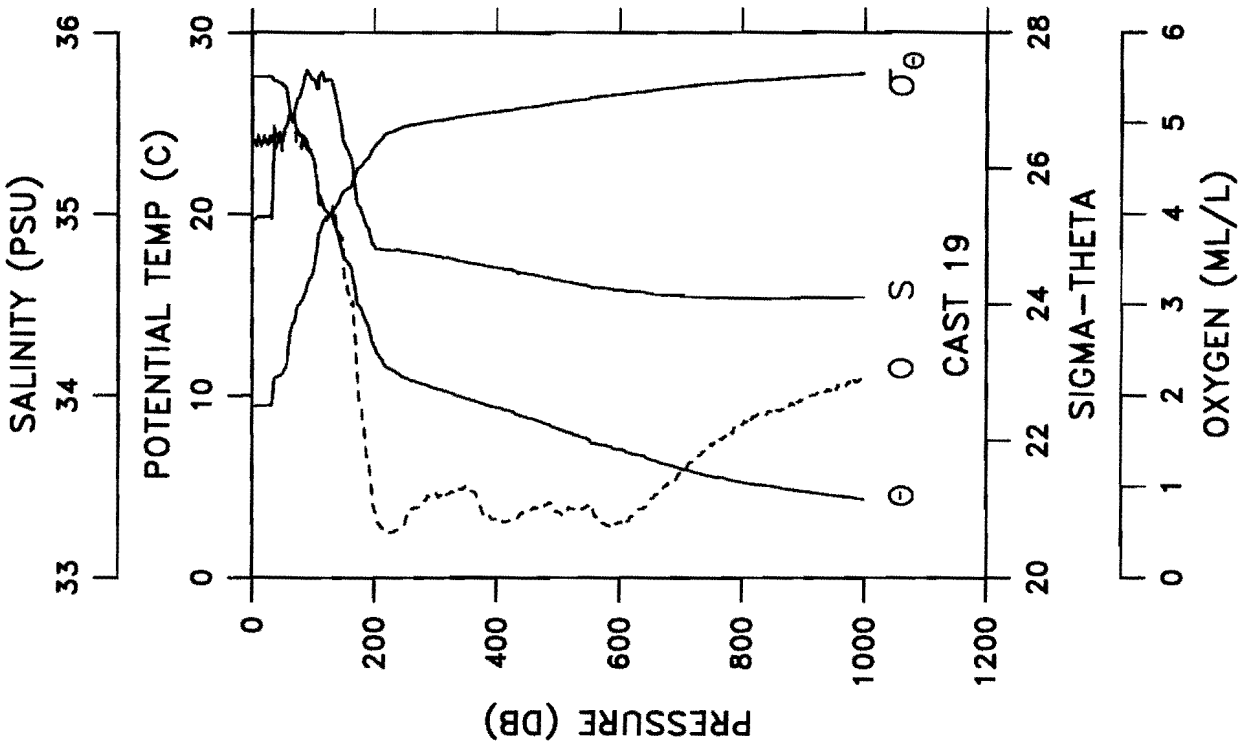


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.788 | 34.918 | 4.84 | 22.404 | 0.000 |
| 10 | 27.788 | 34.919 | 4.64 | 22.405 | 0.054 |
| 20 | 27.787 | 34.919 | 5.07 | 22.405 | 0.109 |
| 30 | 27.788 | 34.919 | 5.08 | 22.405 | 0.163 |
| 40 | 27.690 | 35.069 | 4.86 | 22.550 | 0.217 |
| 50 | 27.501 | 35.338 | 5.01 | 22.813 | 0.268 |
| 60 | 27.181 | 35.384 | 5.05 | 22.951 | 0.318 |
| 70 | 26.197 | 35.480 | 5.17 | 23.336 | 0.366 |
| 80 | 23.908 | 35.602 | 4.89 | 24.126 | 0.407 |
| 90 | 21.856 | 35.631 | 4.55 | 24.740 | 0.443 |
| 100 | 19.740 | 35.706 | 4.27 | 25.370 | 0.471 |
| 110 | 19.023 | 35.608 | 4.03 | 25.482 | 0.497 |
| 120 | 17.274 | 35.356 | 3.46 | 25.723 | 0.521 |
| 130 | 15.574 | 35.142 | 1.60 | 25.955 | 0.543 |
| 140 | 14.691 | 35.047 | 1.15 | 26.076 | 0.563 |
| 150 | 14.157 | 34.994 | 0.77 | 26.150 | 0.582 |
| 160 | 13.576 | 34.956 | 0.42 | 26.242 | 0.601 |
| 170 | 13.171 | 34.940 | 0.33 | 26.312 | 0.619 |
| 180 | 12.675 | 34.921 | 0.40 | 26.397 | 0.636 |
| 190 | 12.453 | 34.906 | 0.53 | 26.429 | 0.652 |
| 200 | 12.302 | 34.897 | 0.58 | 26.451 | 0.669 |
| 250 | 11.548 | 34.848 | 0.70 | 26.557 | 0.747 |
| 300 | 10.815 | 34.800 | 0.51 | 26.653 | 0.822 |
| 350 | 10.081 | 34.753 | 0.43 | 26.746 | 0.893 |
| 400 | 9.482 | 34.716 | 0.38 | 26.817 | 0.959 |
| 450 | 8.643 | 34.665 | 0.40 | 26.913 | 1.022 |
| 500 | 7.968 | 34.628 | 0.37 | 26.987 | 1.082 |
| 550 | 7.310 | 34.595 | 0.86 | 27.056 | 1.138 |
| 600 | 6.761 | 34.572 | 1.14 | 27.115 | 1.191 |
| 650 | 6.297 | 34.557 | 1.25 | 27.165 | 1.242 |
| 700 | 6.083 | 34.552 | 1.40 | 27.188 | 1.291 |
| 750 | 5.701 | 34.544 | 1.56 | 27.230 | 1.338 |
| 800 | 5.381 | 34.540 | 1.67 | 27.266 | 1.384 |
| 900 | 4.870 | 34.540 | 1.82 | 27.326 | 1.472 |
| 1000 | 4.421 | 34.544 | 2.06 | 27.379 | 1.554 |
| 1007 | 4.385 | 34.544 | 2.05 | 27.383 | 1.560 |

CAST EP1-87-RS -019 DATE 03 MAY 87 TIME 1324 GMT
LAT 08 20.2S LONG 109 17.0W

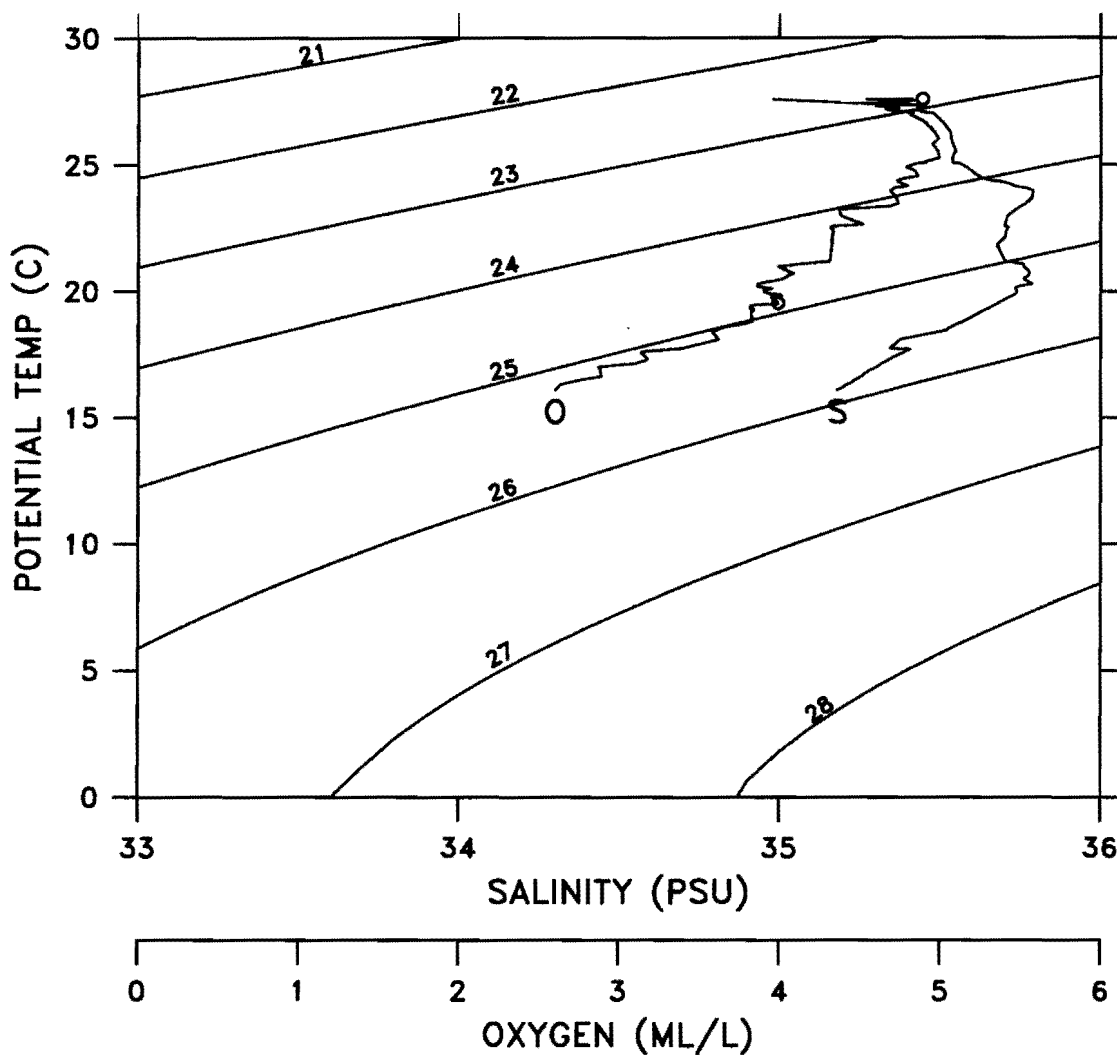


CAST EP1-87-RS -019 DATE 03 MAY 87 TIME 1324 GMT
 LAT 08 20.2S LONG 109 17.0W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 110 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 24.2 DEPTH 3223 M

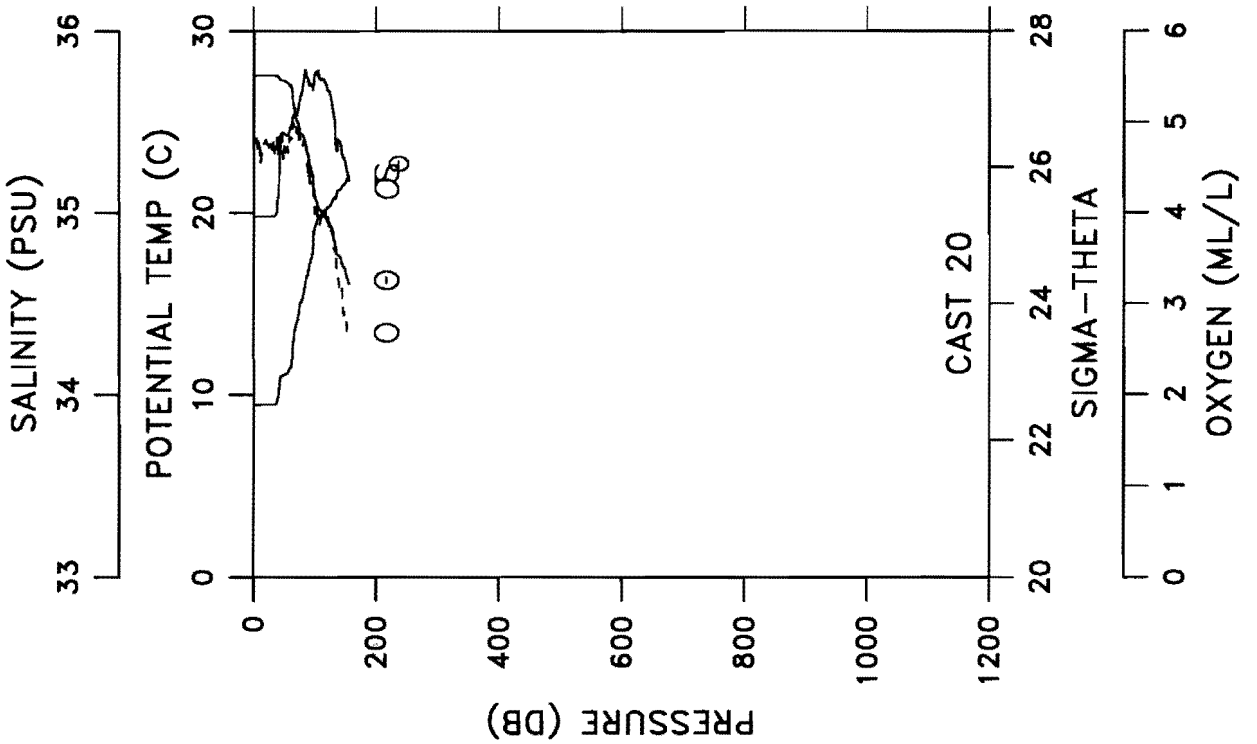


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 27.584 | 34.974 | 4.81 | 22.513 | 0.000 |
| 10 | 27.585 | 34.986 | 4.87 | 22.521 | 0.053 |
| 20 | 27.583 | 34.986 | 4.90 | 22.522 | 0.106 |
| 30 | 27.576 | 34.993 | 4.89 | 22.529 | 0.160 |
| 40 | 27.330 | 35.441 | 4.77 | 22.946 | 0.211 |
| 50 | 27.177 | 35.429 | 4.70 | 22.986 | 0.260 |
| 60 | 26.070 | 35.540 | 5.05 | 23.421 | 0.307 |
| 70 | 25.040 | 35.583 | 5.03 | 23.772 | 0.350 |
| 80 | 24.365 | 35.671 | 4.73 | 24.042 | 0.390 |
| 90 | 23.909 | 35.791 | 4.69 | 24.269 | 0.428 |
| 100 | 23.064 | 35.745 | 4.64 | 24.481 | 0.484 |
| 110 | 21.039 | 35.761 | 4.06 | 25.084 | 0.496 |
| 120 | 20.186 | 35.738 | 3.96 | 25.277 | 0.524 |
| 130 | 19.914 | 35.735 | 4.01 | 25.346 | 0.551 |
| 140 | 18.903 | 35.582 | 3.84 | 25.492 | 0.577 |
| 150 | 17.623 | 35.396 | 3.40 | 25.669 | 0.602 |
| 160 | 17.172 | 35.324 | 3.08 | 25.722 | 0.625 |
| 170 | 15.575 | 35.106 | 2.51 | 25.927 | 0.647 |
| 180 | 14.640 | 35.002 | 1.79 | 26.053 | 0.668 |
| 190 | 13.838 | 34.924 | 1.24 | 26.163 | 0.687 |
| 200 | 12.690 | 34.826 | 0.78 | 26.320 | 0.706 |
| 250 | 11.006 | 34.797 | 0.60 | 26.617 | 0.784 |
| 300 | 10.416 | 34.770 | 0.82 | 26.701 | 0.856 |
| 350 | 9.831 | 34.735 | 1.01 | 26.774 | 0.925 |
| 400 | 9.329 | 34.705 | 0.65 | 26.834 | 0.990 |
| 450 | 8.759 | 34.670 | 0.74 | 26.898 | 1.054 |
| 500 | 8.178 | 34.636 | 0.72 | 26.961 | 1.114 |
| 550 | 7.574 | 34.602 | 0.79 | 27.024 | 1.172 |
| 600 | 7.036 | 34.582 | 0.60 | 27.084 | 1.226 |
| 650 | 6.498 | 34.562 | 0.86 | 27.142 | 1.279 |
| 700 | 5.970 | 34.547 | 1.15 | 27.199 | 1.328 |
| 750 | 5.568 | 34.539 | 1.48 | 27.242 | 1.375 |
| 800 | 5.243 | 34.536 | 1.68 | 27.279 | 1.420 |
| 900 | 4.742 | 34.537 | 1.85 | 27.338 | 1.506 |
| 1000 | 4.307 | 34.542 | 2.20 | 27.390 | 1.587 |
| 1500 | 2.930 | 34.593 | 2.45 | 27.567 | 1.937 |
| 2000 | 2.120 | 34.641 | 2.74 | 27.675 | 2.220 |
| 2500 | 1.679 | 34.670 | 3.11 | 27.732 | 2.466 |
| 3000 | 1.563 | 34.678 | 3.25 | 27.748 | 2.699 |
| 3109 | 1.540 | 34.679 | 3.27 | 27.750 | 2.751 |

CAST EP1-87-RS -020 DATE 03 MAY 87 TIME 1607 GMT
LAT 08 20.1S LONG 109 17.1W

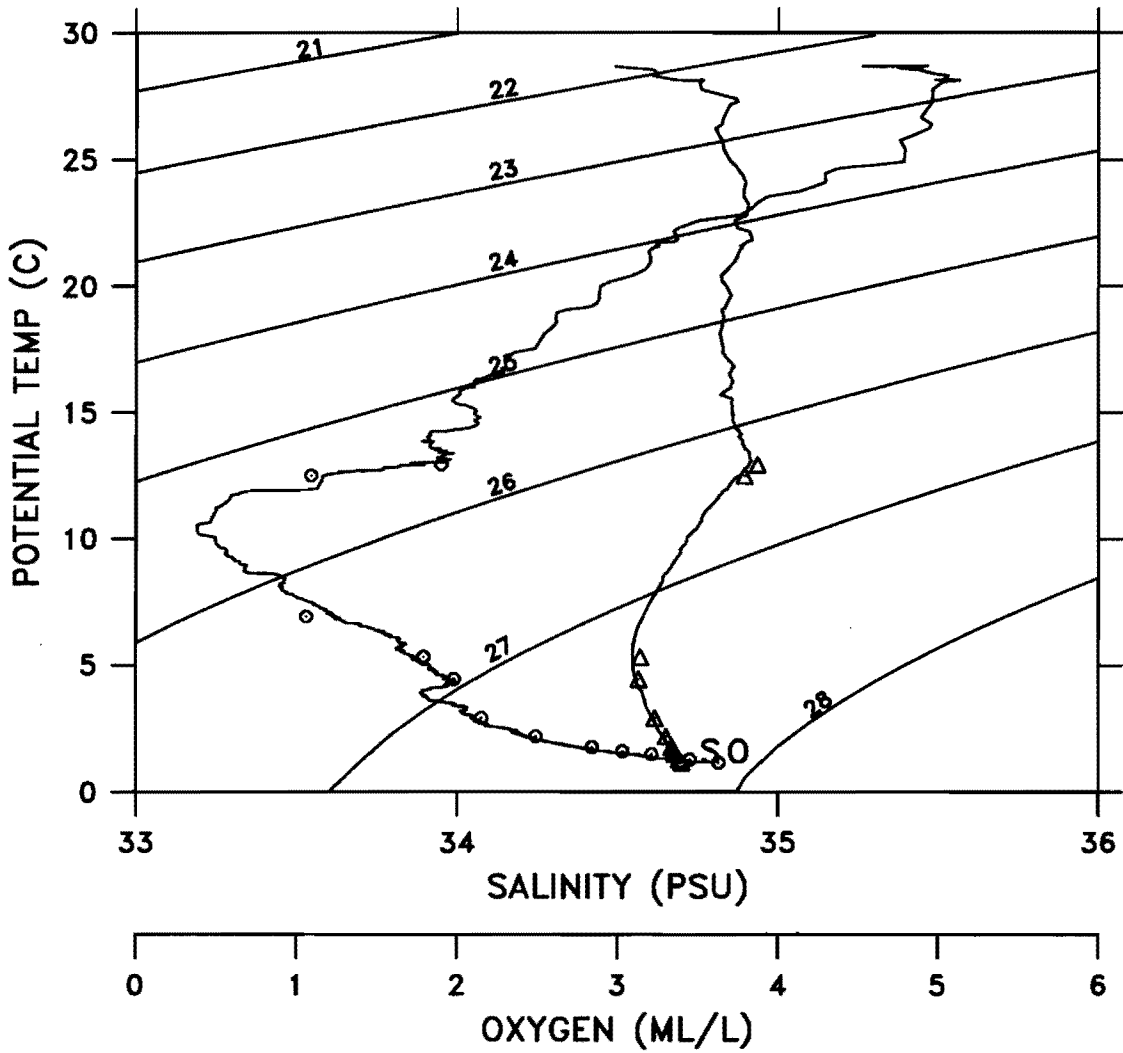


CAST EP1-87-RS -020 DATE 03 MAY 87 TIME 1607 GMT
 LAT 08 20.1S LONG 109 17.1W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 110 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.0 WET 24.0 DEPTH 3274 M

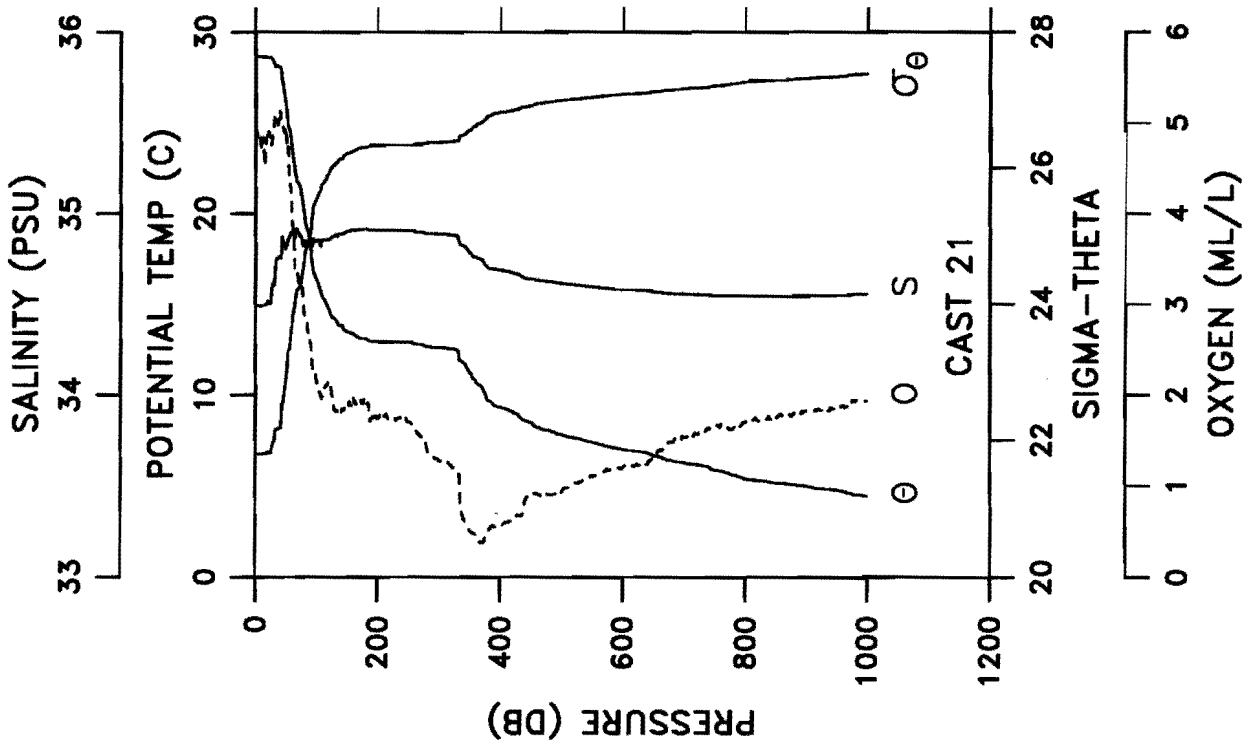


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.593 | 34.980 | 4.80 | 22.515 | 0.000 |
| 10 | 27.582 | 34.980 | 4.74 | 22.517 | 0.053 |
| 20 | 27.575 | 34.980 | 4.80 | 22.520 | 0.106 |
| 30 | 27.574 | 34.980 | 4.72 | 22.520 | 0.160 |
| 40 | 27.500 | 35.097 | 4.69 | 22.633 | 0.213 |
| 50 | 27.282 | 35.437 | 4.73 | 22.958 | 0.263 |
| 60 | 27.043 | 35.467 | 4.83 | 23.058 | 0.312 |
| 70 | 25.088 | 35.538 | 4.89 | 23.723 | 0.357 |
| 80 | 24.311 | 35.892 | 4.74 | 24.074 | 0.397 |
| 90 | 22.982 | 35.709 | 4.38 | 24.478 | 0.433 |
| 100 | 20.967 | 35.759 | 3.99 | 25.083 | 0.466 |
| 110 | 20.111 | 35.734 | 3.95 | 25.294 | 0.493 |
| 120 | 19.587 | 35.688 | 3.98 | 25.397 | 0.520 |
| 130 | 18.717 | 35.556 | 3.78 | 25.520 | 0.546 |
| 140 | 17.643 | 35.391 | 3.19 | 25.660 | 0.570 |
| 150 | 16.848 | 35.276 | 2.88 | 25.763 | 0.593 |
| 156 | 16.088 | 35.177 | 2.60 | 25.865 | 0.607 |

CAST EP1-87-RS -021 DATE 05 MAY 87 TIME 1449 GMT
LAT 00 54.0N LONG 112 57.6W

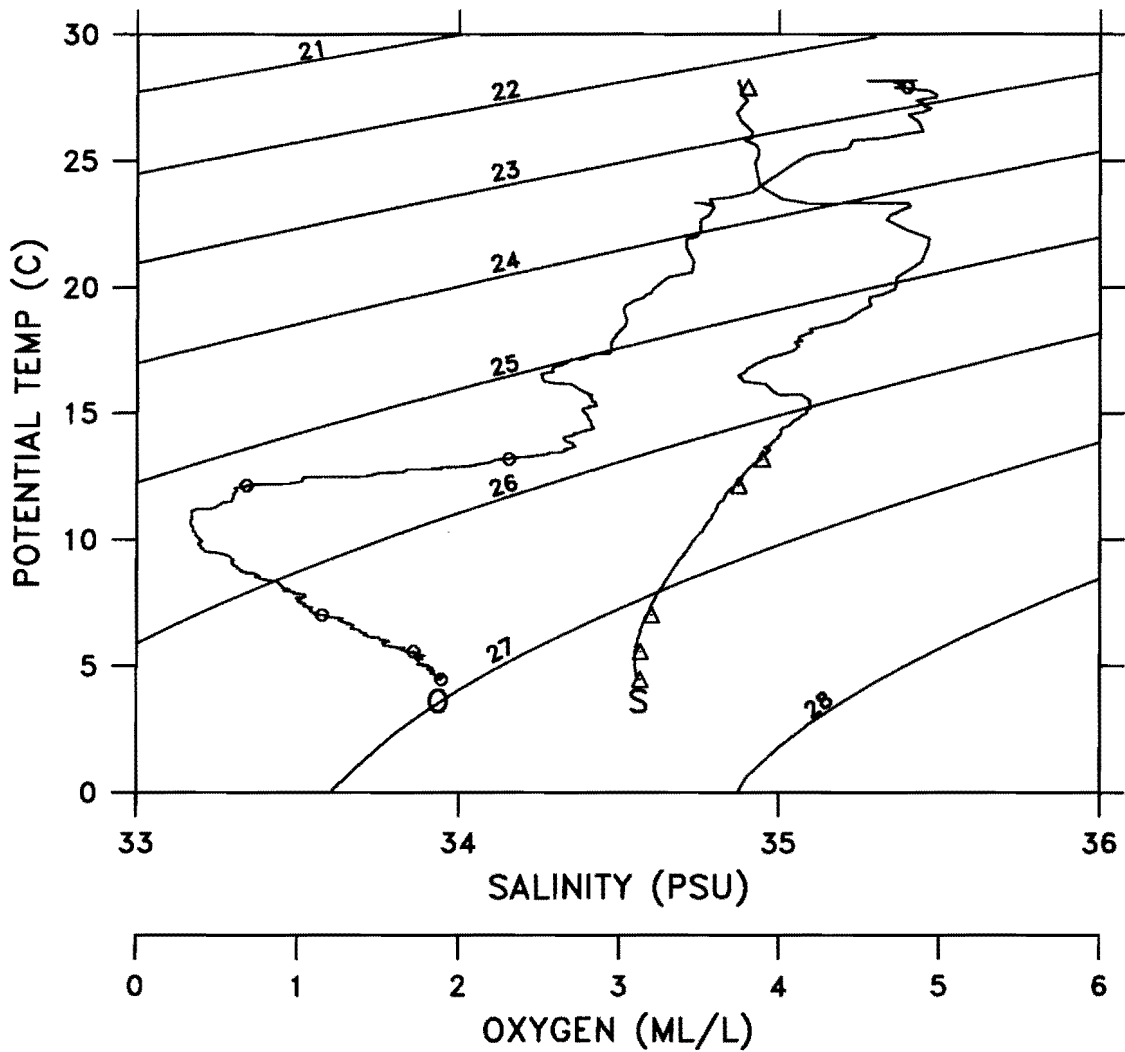


CAST EP1-87-RS -021 DATE 05 MAY 87 TIME 1449 GMT
 LAT 00 54.0N LONG 112 57.9W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 100 T SPD 10 KT VISIBILITY 7
 CLOUD 6 AMOUNT 2 DRY 28.0 WET 25.5 DEPTH 3922 M

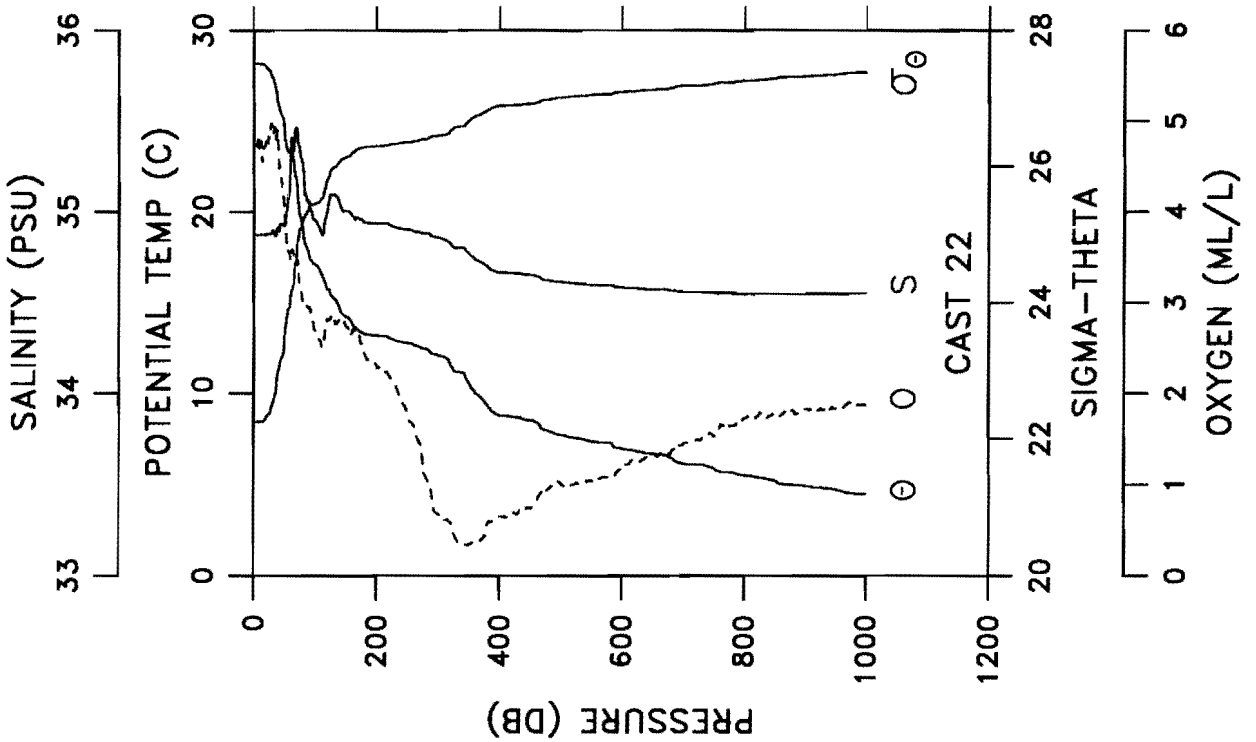


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.663 | 34.493 | 4.93 | 21.797 | 0.000 |
| 10 | 28.650 | 34.491 | 4.77 | 21.800 | 0.060 |
| 20 | 28.610 | 34.519 | 4.87 | 21.834 | 0.120 |
| 30 | 28.348 | 34.615 | 4.98 | 21.993 | 0.180 |
| 40 | 28.082 | 34.766 | 5.14 | 22.191 | 0.236 |
| 50 | 25.983 | 34.813 | 4.85 | 22.899 | 0.289 |
| 60 | 23.536 | 34.890 | 3.93 | 23.697 | 0.335 |
| 70 | 21.710 | 34.898 | 3.26 | 24.222 | 0.374 |
| 80 | 18.982 | 34.838 | 2.89 | 24.641 | 0.410 |
| 90 | 18.384 | 34.824 | 2.59 | 25.043 | 0.441 |
| 100 | 16.376 | 34.852 | 2.18 | 25.548 | 0.467 |
| 110 | 15.395 | 34.853 | 1.98 | 25.772 | 0.491 |
| 120 | 14.738 | 34.857 | 2.13 | 25.919 | 0.513 |
| 130 | 14.208 | 34.878 | 1.83 | 26.050 | 0.533 |
| 140 | 13.833 | 34.888 | 1.79 | 26.136 | 0.552 |
| 150 | 13.492 | 34.903 | 1.87 | 26.218 | 0.571 |
| 160 | 13.375 | 34.911 | 1.98 | 26.248 | 0.589 |
| 170 | 13.147 | 34.913 | 1.90 | 26.296 | 0.607 |
| 180 | 13.113 | 34.915 | 1.89 | 26.305 | 0.625 |
| 190 | 12.970 | 34.910 | 1.75 | 26.330 | 0.642 |
| 200 | 12.938 | 34.909 | 1.74 | 26.336 | 0.660 |
| 250 | 12.905 | 34.908 | 1.71 | 26.341 | 0.747 |
| 300 | 12.624 | 34.889 | 1.28 | 26.382 | 0.833 |
| 350 | 11.235 | 34.784 | 0.51 | 26.585 | 0.917 |
| 400 | 8.331 | 34.689 | 0.57 | 26.821 | 0.987 |
| 450 | 8.486 | 34.640 | 0.92 | 26.916 | 1.050 |
| 500 | 7.828 | 34.617 | 0.93 | 26.999 | 1.109 |
| 550 | 7.404 | 34.597 | 1.12 | 27.045 | 1.165 |
| 600 | 7.003 | 34.582 | 1.21 | 27.089 | 1.219 |
| 650 | 6.662 | 34.569 | 1.30 | 27.126 | 1.272 |
| 700 | 6.267 | 34.557 | 1.54 | 27.168 | 1.322 |
| 750 | 5.870 | 34.548 | 1.66 | 27.212 | 1.371 |
| 800 | 5.390 | 34.546 | 1.70 | 27.270 | 1.418 |
| 800 | 4.985 | 34.547 | 1.83 | 27.317 | 1.505 |
| 1000 | 4.444 | 34.556 | 1.93 | 27.386 | 1.588 |
| 1500 | 2.919 | 34.608 | 2.11 | 27.590 | 1.929 |
| 2000 | 2.170 | 34.642 | 2.43 | 27.671 | 2.210 |
| 2500 | 1.762 | 34.662 | 2.74 | 27.719 | 2.459 |
| 3000 | 1.485 | 34.675 | 3.07 | 27.751 | 2.694 |
| 3500 | 1.243 | 34.689 | 3.41 | 27.779 | 2.920 |
| 3789 | 1.152 | 34.693 | 3.55 | 27.789 | 3.045 |

CAST EP1-87-RS -022 DATE 06 MAY 87 TIME 0224 GMT
LAT 00 00.1N LONG 114 59.5W

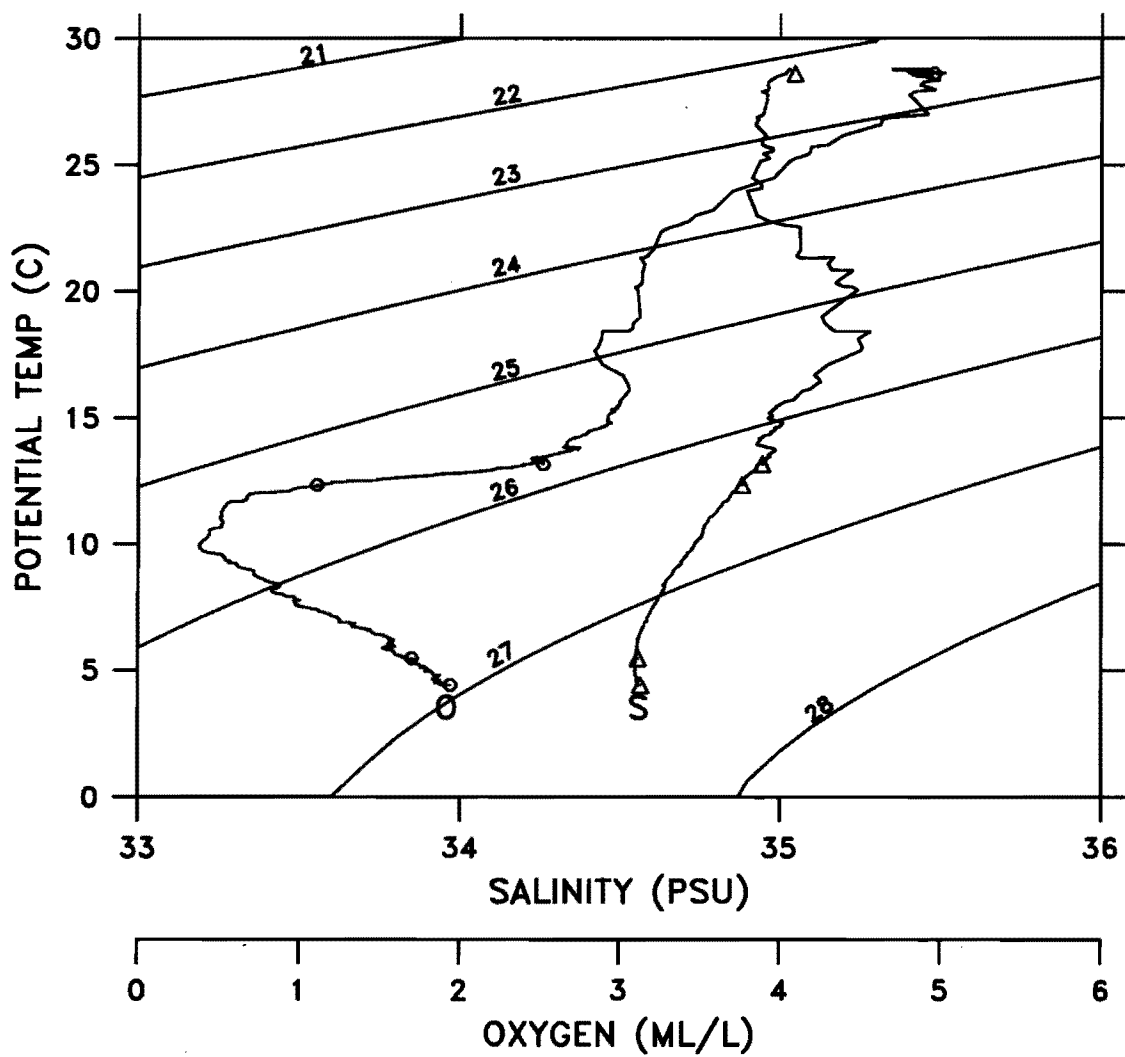


CAST EP1-87-RS -022 DATE 06 MAY 87 TIME 0224 GMT
 LAT 00 00.1N LONG 114 59.5W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 105 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.8 WET 25.5 DEPTH 4051 M

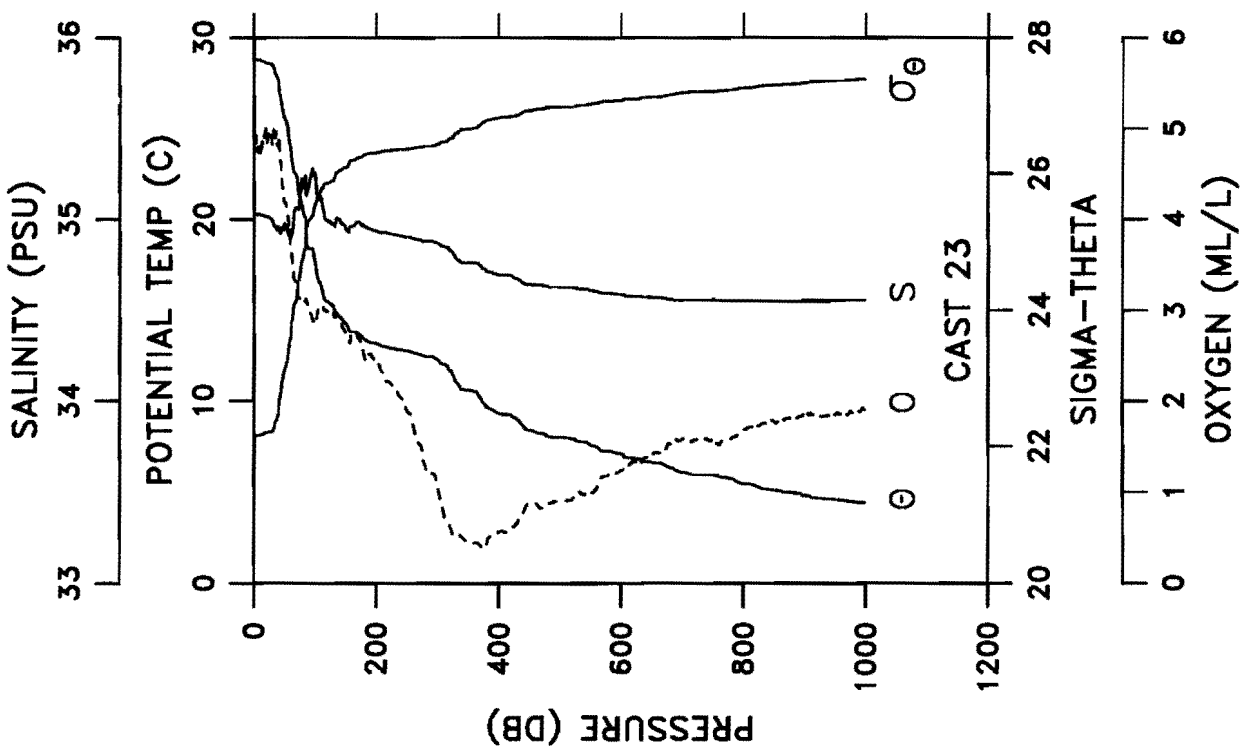


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.172 | 34.872 | 4.73 | 22.244 | 0.000 |
| 10 | 28.156 | 34.873 | 4.71 | 22.250 | 0.056 |
| 20 | 27.955 | 34.879 | 4.78 | 22.320 | 0.111 |
| 30 | 27.458 | 34.892 | 4.93 | 22.492 | 0.166 |
| 40 | 25.894 | 34.912 | 4.66 | 23.002 | 0.218 |
| 50 | 24.460 | 34.930 | 3.99 | 23.453 | 0.265 |
| 60 | 23.323 | 35.373 | 3.47 | 24.124 | 0.306 |
| 70 | 21.582 | 35.462 | 3.41 | 24.687 | 0.341 |
| 80 | 19.102 | 35.258 | 3.02 | 25.193 | 0.371 |
| 90 | 17.670 | 35.061 | 2.95 | 25.400 | 0.398 |
| 100 | 17.119 | 34.952 | 2.69 | 25.450 | 0.423 |
| 110 | 16.594 | 34.890 | 2.54 | 25.526 | 0.449 |
| 120 | 15.723 | 35.009 | 2.82 | 25.818 | 0.472 |
| 130 | 15.259 | 35.097 | 2.81 | 25.990 | 0.493 |
| 140 | 14.694 | 35.044 | 2.82 | 26.073 | 0.514 |
| 150 | 14.257 | 35.007 | 2.76 | 26.139 | 0.533 |
| 160 | 13.872 | 34.981 | 2.67 | 26.200 | 0.552 |
| 170 | 13.515 | 34.969 | 2.65 | 26.265 | 0.570 |
| 180 | 13.290 | 34.944 | 2.45 | 26.292 | 0.588 |
| 190 | 13.242 | 34.939 | 2.36 | 26.298 | 0.606 |
| 200 | 13.210 | 34.937 | 2.30 | 26.302 | 0.623 |
| 250 | 12.787 | 34.903 | 1.76 | 26.361 | 0.711 |
| 300 | 12.111 | 34.860 | 0.69 | 26.460 | 0.795 |
| 350 | 10.563 | 34.771 | 0.34 | 26.676 | 0.873 |
| 400 | 8.776 | 34.666 | 0.65 | 26.893 | 0.939 |
| 450 | 8.524 | 34.653 | 0.75 | 26.922 | 1.000 |
| 500 | 7.713 | 34.614 | 1.02 | 27.013 | 1.059 |
| 550 | 7.357 | 34.599 | 1.04 | 27.053 | 1.114 |
| 600 | 6.978 | 34.584 | 1.18 | 27.095 | 1.168 |
| 650 | 6.688 | 34.573 | 1.32 | 27.126 | 1.221 |
| 700 | 6.152 | 34.560 | 1.43 | 27.186 | 1.271 |
| 750 | 5.916 | 34.556 | 1.53 | 27.213 | 1.320 |
| 800 | 5.511 | 34.548 | 1.73 | 27.256 | 1.366 |
| 800 | 4.935 | 34.549 | 1.83 | 27.325 | 1.454 |
| 1000 | 4.493 | 34.555 | 1.88 | 27.379 | 1.536 |
| 1006 | 4.460 | 34.556 | 1.87 | 27.384 | 1.541 |

CAST EP1-87-RS -023 DATE 07 MAY 87 TIME 0123 GMT
LAT 00 01.0S LONG 120 00.9W

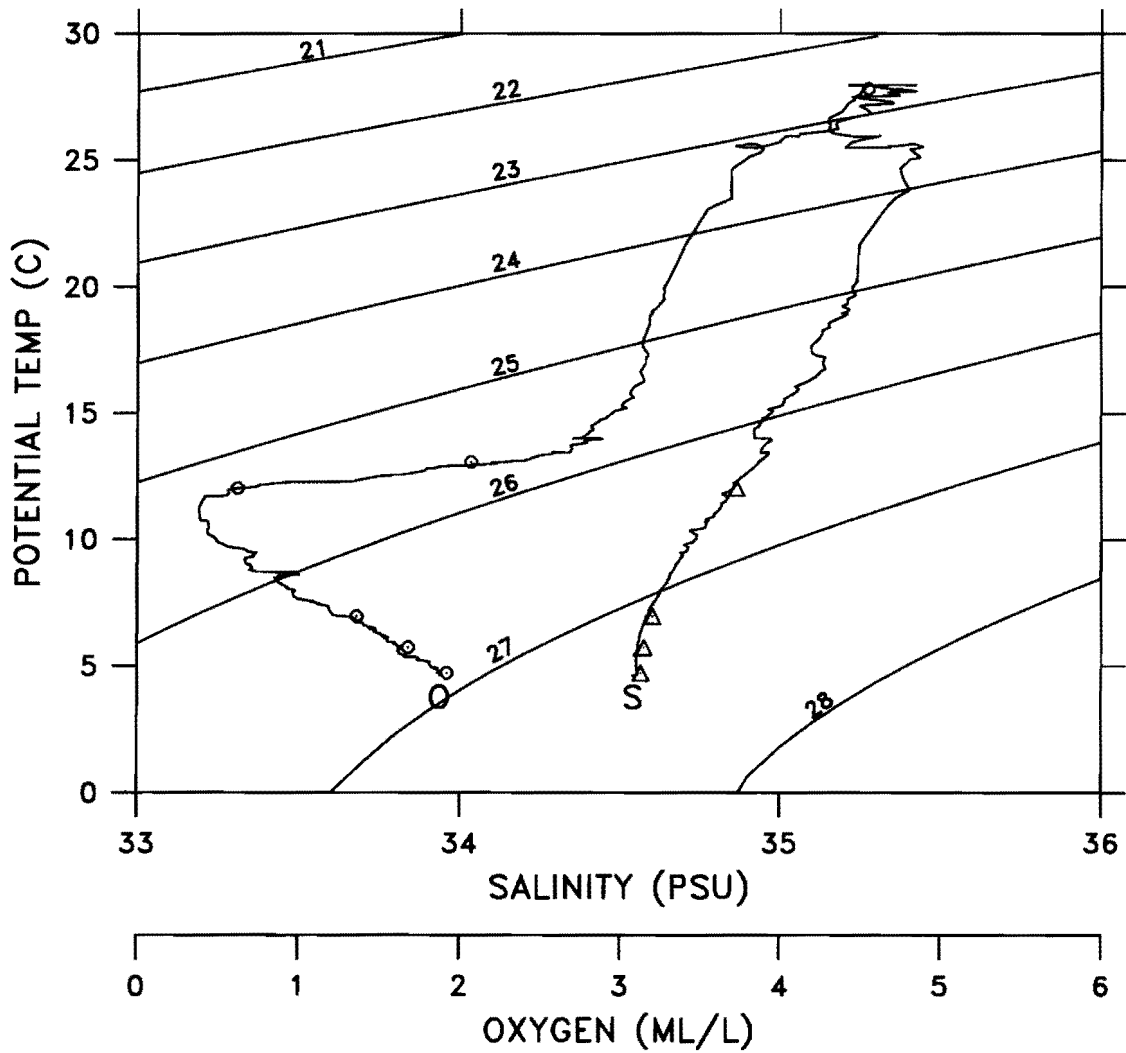


CAST EP1-87-RS -023 DATE 07 MAY 87 TIME 0123 GMT
 LAT 00 01.0S LONG 120 00.9W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 080 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 20.0 WET 26.0 DEPTH 4195 M

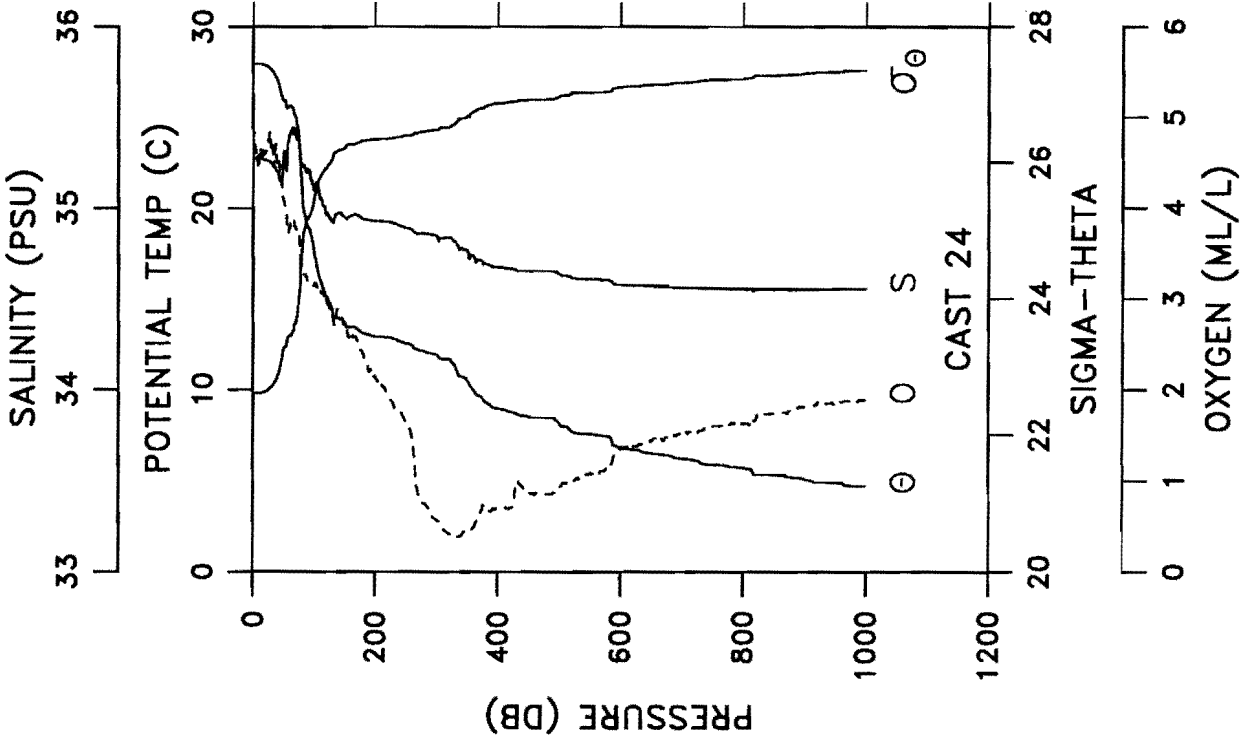


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.796 | 35.028 | 4.93 | 22.156 | 0.000 |
| 10 | 28.773 | 35.027 | 4.78 | 22.162 | 0.057 |
| 20 | 28.628 | 35.017 | 5.02 | 22.204 | 0.113 |
| 30 | 28.536 | 34.996 | 4.82 | 22.217 | 0.169 |
| 40 | 27.607 | 34.959 | 4.83 | 22.494 | 0.224 |
| 50 | 25.644 | 34.978 | 4.19 | 23.129 | 0.274 |
| 60 | 23.952 | 34.897 | 3.70 | 23.579 | 0.320 |
| 70 | 22.357 | 35.062 | 3.25 | 24.166 | 0.360 |
| 80 | 20.488 | 35.188 | 3.14 | 24.777 | 0.394 |
| 90 | 18.418 | 35.194 | 3.05 | 25.318 | 0.423 |
| 100 | 17.651 | 35.251 | 2.84 | 25.551 | 0.449 |
| 110 | 16.340 | 35.114 | 3.05 | 25.758 | 0.472 |
| 120 | 15.474 | 34.992 | 2.99 | 25.862 | 0.494 |
| 130 | 15.194 | 34.966 | 2.94 | 25.904 | 0.516 |
| 140 | 14.647 | 34.998 | 2.90 | 26.048 | 0.536 |
| 150 | 14.259 | 34.946 | 2.75 | 26.091 | 0.556 |
| 160 | 13.811 | 34.962 | 2.72 | 26.198 | 0.575 |
| 170 | 13.725 | 34.986 | 2.69 | 26.235 | 0.594 |
| 180 | 13.435 | 34.984 | 2.50 | 26.278 | 0.612 |
| 190 | 13.243 | 34.947 | 2.51 | 26.303 | 0.629 |
| 200 | 13.172 | 34.935 | 2.43 | 26.309 | 0.647 |
| 250 | 12.771 | 34.904 | 1.89 | 26.365 | 0.734 |
| 300 | 12.270 | 34.869 | 1.06 | 26.436 | 0.819 |
| 350 | 10.598 | 34.761 | 0.46 | 26.662 | 0.896 |
| 400 | 9.325 | 34.691 | 0.57 | 26.824 | 0.965 |
| 450 | 8.398 | 34.642 | 0.86 | 26.933 | 1.028 |
| 500 | 7.997 | 34.628 | 0.90 | 26.982 | 1.087 |
| 550 | 7.585 | 34.608 | 0.99 | 27.027 | 1.144 |
| 600 | 7.100 | 34.587 | 1.23 | 27.080 | 1.199 |
| 650 | 6.631 | 34.571 | 1.40 | 27.131 | 1.251 |
| 700 | 6.078 | 34.557 | 1.58 | 27.193 | 1.301 |
| 750 | 5.938 | 34.557 | 1.56 | 27.211 | 1.349 |
| 800 | 5.450 | 34.549 | 1.67 | 27.265 | 1.396 |
| 800 | 4.806 | 34.550 | 1.88 | 27.341 | 1.482 |
| 1000 | 4.416 | 34.556 | 1.91 | 27.369 | 1.563 |
| 1007 | 4.392 | 34.557 | 1.92 | 27.392 | 1.568 |

CAST EP1-87-RS -024 DATE 08 MAY 87 TIME 1135 GMT
LAT 00 04.2N LONG 124 26.3W



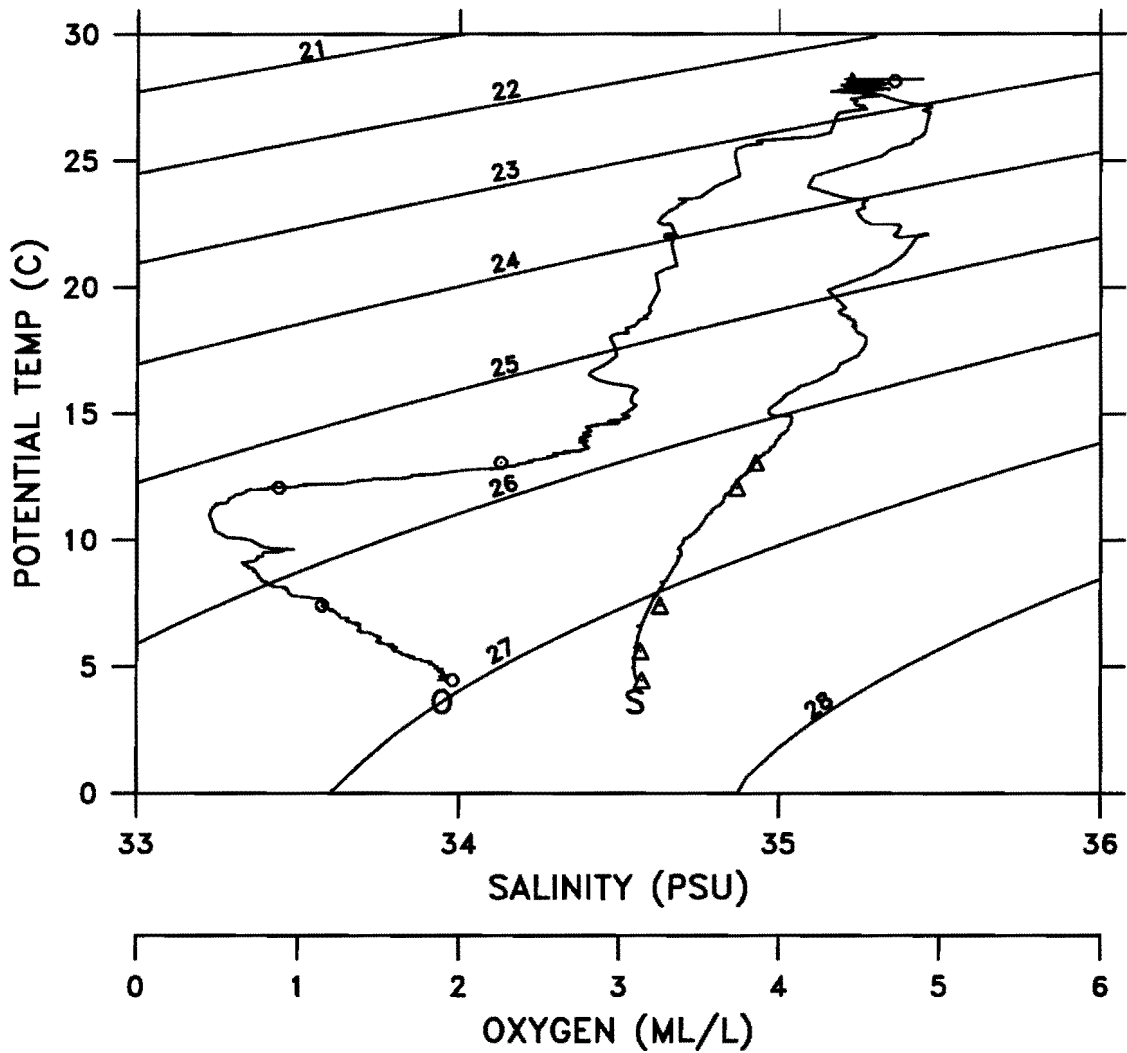
CAST EPI-87-RS -024 DATE 08 MAY 87 TIME 1135 GMT
 LAT 00 04.2N LONG 124 26.3W WEATHER 1 SEA STATE 1
 BAROMETER 07 WIND DIR 115.T SPD 11 KT VISIBILITY 7
 CLOUD 6 AMOUNT 2 DRY 27.7 WET 25.5 DEPTH 2520 M



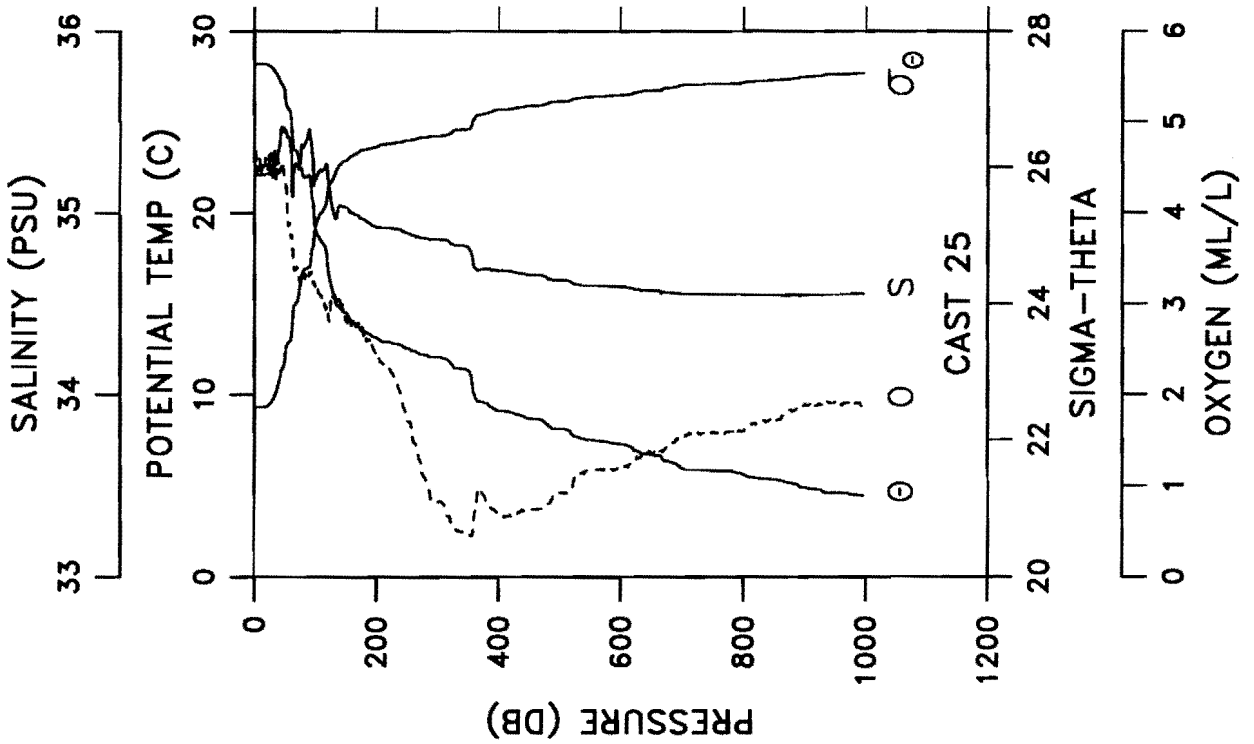
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.955 | 35.276 | 4.78 | 22.619 | 0.000 |
| 10 | 27.954 | 35.273 | 4.54 | 22.617 | 0.052 |
| 20 | 27.897 | 35.267 | 4.60 | 22.631 | 0.104 |
| 30 | 27.820 | 35.250 | 4.69 | 22.709 | 0.156 |
| 40 | 26.997 | 35.198 | 4.54 | 22.870 | 0.207 |
| 50 | 25.937 | 35.302 | 4.10 | 23.283 | 0.256 |
| 60 | 25.622 | 35.405 | 3.79 | 23.458 | 0.301 |
| 70 | 25.025 | 35.404 | 3.79 | 23.641 | 0.345 |
| 80 | 21.157 | 35.244 | 3.37 | 24.638 | 0.384 |
| 90 | 19.002 | 35.210 | 3.19 | 25.182 | 0.413 |
| 100 | 17.638 | 35.098 | 3.14 | 25.437 | 0.441 |
| 110 | 16.054 | 35.047 | 3.09 | 25.773 | 0.464 |
| 120 | 15.161 | 34.962 | 3.00 | 25.908 | 0.486 |
| 130 | 14.374 | 34.920 | 2.83 | 26.047 | 0.507 |
| 140 | 13.957 | 34.974 | 2.82 | 26.177 | 0.526 |
| 150 | 13.710 | 34.951 | 2.69 | 26.211 | 0.544 |
| 160 | 13.462 | 34.957 | 2.60 | 26.267 | 0.562 |
| 170 | 13.381 | 34.963 | 2.57 | 26.287 | 0.580 |
| 180 | 13.121 | 34.941 | 2.40 | 26.323 | 0.598 |
| 190 | 13.048 | 34.935 | 2.20 | 26.334 | 0.615 |
| 200 | 12.951 | 34.927 | 2.16 | 26.347 | 0.632 |
| 250 | 12.564 | 34.891 | 1.63 | 26.396 | 0.718 |
| 300 | 11.959 | 34.848 | 0.57 | 26.479 | 0.801 |
| 350 | 10.508 | 34.769 | 0.44 | 26.684 | 0.878 |
| 400 | 8.963 | 34.674 | 0.70 | 26.869 | 0.944 |
| 450 | 8.511 | 34.654 | 0.88 | 26.925 | 1.006 |
| 500 | 8.164 | 34.638 | 0.91 | 26.965 | 1.066 |
| 550 | 7.559 | 34.609 | 1.07 | 27.032 | 1.122 |
| 600 | 6.828 | 34.579 | 1.35 | 27.111 | 1.177 |
| 650 | 6.528 | 34.570 | 1.43 | 27.144 | 1.228 |
| 700 | 6.222 | 34.563 | 1.51 | 27.179 | 1.278 |
| 750 | 5.911 | 34.557 | 1.59 | 27.214 | 1.327 |
| 800 | 5.718 | 34.555 | 1.62 | 27.237 | 1.374 |
| 900 | 5.097 | 34.551 | 1.81 | 27.308 | 1.463 |
| 1000 | 4.723 | 34.554 | 1.88 | 27.354 | 1.548 |
| 1007 | 4.628 | 34.540 | 1.87 | 27.353 | 1.553 |

CAST EP1-87-RS -025 DATE 09 MAY 87 TIME 1551 GMT

LAT 00 00.2S LONG 129 58.8W

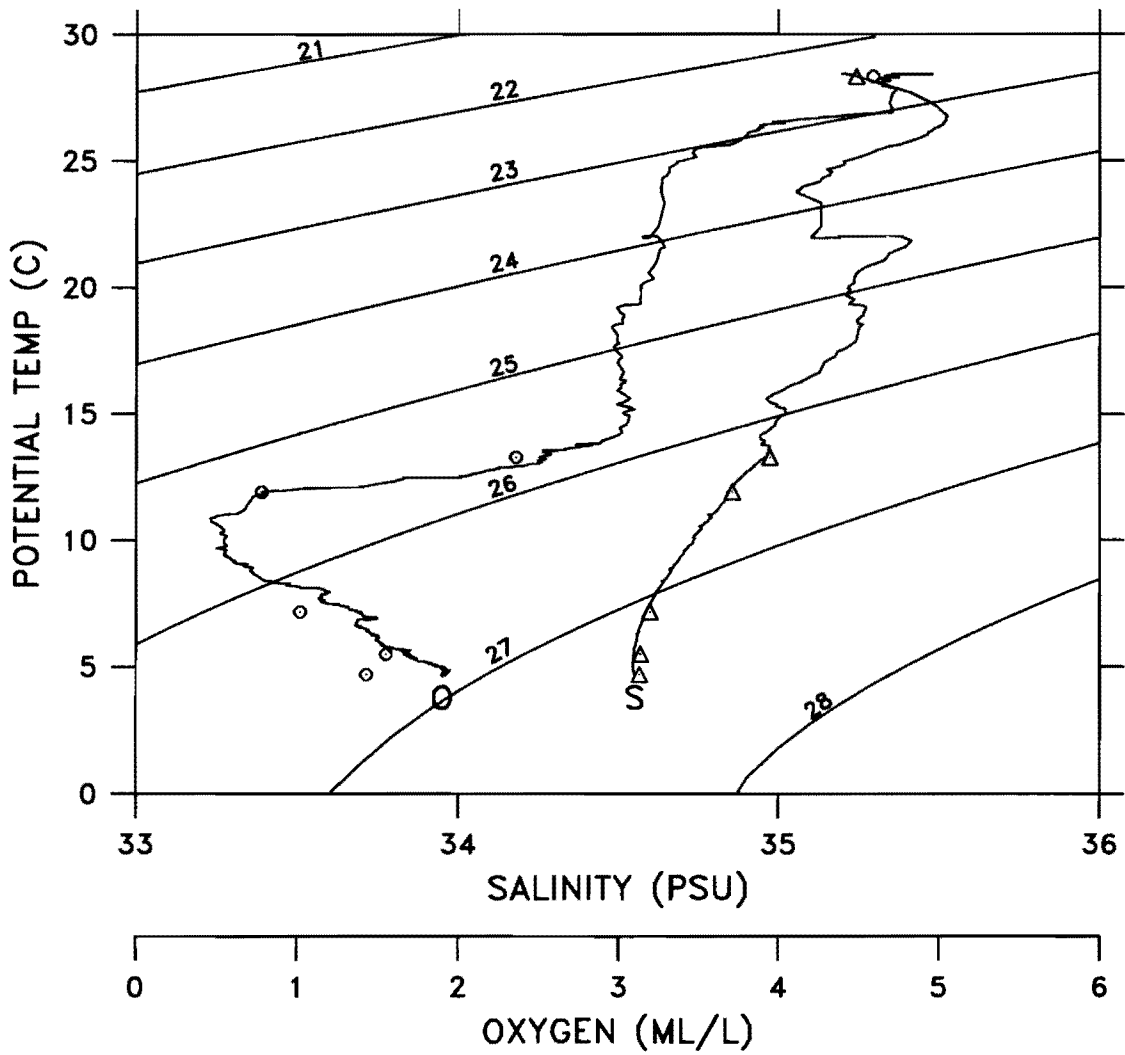


CAST EP1-87-RS -025 DATE 09 MAY 87 TIME 1551 GMT
 LAT 00 00.2S LONG 129 58.8W WEATHER SEA STATE 1
 BAROMETER 10 WIND DIR 110 T SPD 12 KT VISIBILITY 7
 CLOUD AMOUNT DRY 27.0 WET 25.5 DEPTH 4459 M

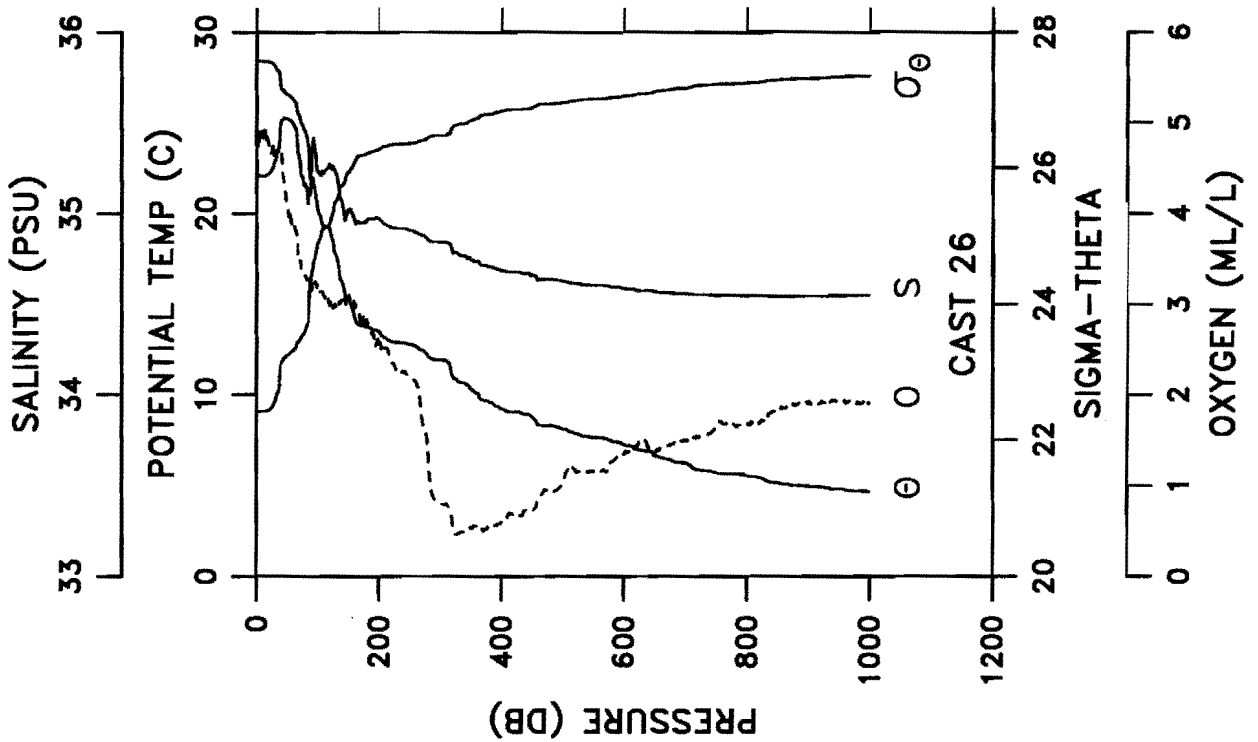


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.211 | 35.205 | 4.89 | 22.482 | 0.000 |
| 10 | 28.217 | 35.210 | 4.42 | 22.483 | 0.054 |
| 20 | 28.199 | 35.215 | 4.52 | 22.494 | 0.107 |
| 30 | 27.973 | 35.245 | 4.39 | 22.589 | 0.160 |
| 40 | 27.420 | 35.355 | 4.45 | 22.852 | 0.212 |
| 50 | 26.453 | 35.460 | 4.34 | 23.240 | 0.260 |
| 60 | 25.184 | 35.320 | 3.72 | 23.529 | 0.305 |
| 70 | 23.280 | 35.260 | 3.38 | 24.051 | 0.345 |
| 80 | 22.017 | 35.360 | 3.36 | 24.488 | 0.382 |
| 90 | 22.078 | 35.463 | 3.35 | 24.549 | 0.416 |
| 100 | 19.056 | 35.186 | 3.19 | 25.150 | 0.448 |
| 110 | 18.443 | 35.231 | 3.07 | 25.340 | 0.475 |
| 120 | 16.973 | 35.190 | 2.91 | 25.668 | 0.500 |
| 130 | 15.432 | 34.995 | 3.08 | 25.873 | 0.523 |
| 140 | 14.804 | 35.039 | 3.03 | 26.046 | 0.544 |
| 150 | 14.512 | 35.031 | 2.81 | 26.103 | 0.563 |
| 160 | 14.081 | 35.002 | 2.80 | 26.172 | 0.582 |
| 170 | 13.757 | 34.985 | 2.78 | 26.227 | 0.601 |
| 180 | 13.496 | 34.965 | 2.66 | 26.266 | 0.619 |
| 190 | 13.315 | 34.943 | 2.56 | 26.285 | 0.637 |
| 200 | 13.130 | 34.922 | 2.43 | 26.307 | 0.655 |
| 250 | 12.566 | 34.890 | 1.72 | 26.394 | 0.741 |
| 300 | 12.080 | 34.855 | 0.82 | 26.462 | 0.824 |
| 350 | 11.362 | 34.813 | 0.48 | 26.564 | 0.903 |
| 400 | 9.115 | 34.682 | 0.68 | 26.851 | 0.971 |
| 450 | 8.684 | 34.661 | 0.74 | 26.903 | 1.034 |
| 500 | 8.103 | 34.630 | 0.92 | 26.968 | 1.094 |
| 550 | 7.510 | 34.602 | 1.17 | 27.033 | 1.152 |
| 600 | 7.273 | 34.593 | 1.19 | 27.060 | 1.207 |
| 650 | 6.692 | 34.571 | 1.35 | 27.123 | 1.260 |
| 700 | 5.936 | 34.555 | 1.50 | 27.209 | 1.310 |
| 750 | 5.811 | 34.553 | 1.58 | 27.223 | 1.357 |
| 800 | 5.614 | 34.551 | 1.60 | 27.247 | 1.404 |
| 900 | 4.900 | 34.547 | 1.88 | 27.328 | 1.493 |
| 996 | 4.465 | 34.555 | 1.89 | 27.382 | 1.571 |

CAST EP1-87-RS -026 DATE 10 MAY 87 TIME 1716 GMT
LAT 00 00.7N LONG 135 00.0W

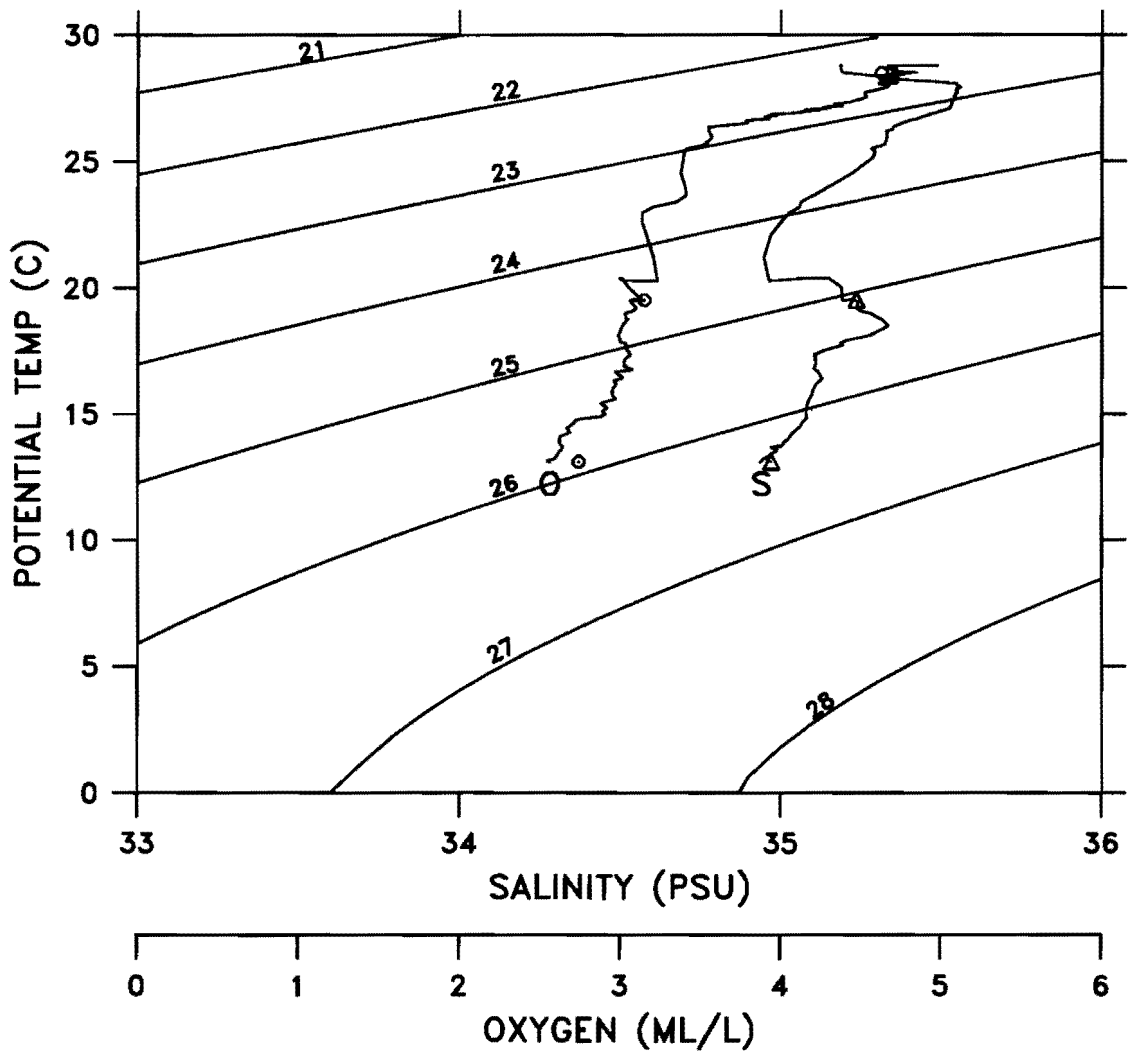


CAST EP1-87-RS -026 DATE 10 MAY 87 TIME 1716 GMT
 LAT 00 00.7N LONG 135 00.0W WEATHER SEA STATE
 BAROMETER 09 WIND DIR 060 T SPD 08 KT VISIBILITY 7
 CLOUD AMOUNT DRY 27.8 WET 25.6 DEPTH 4350 M

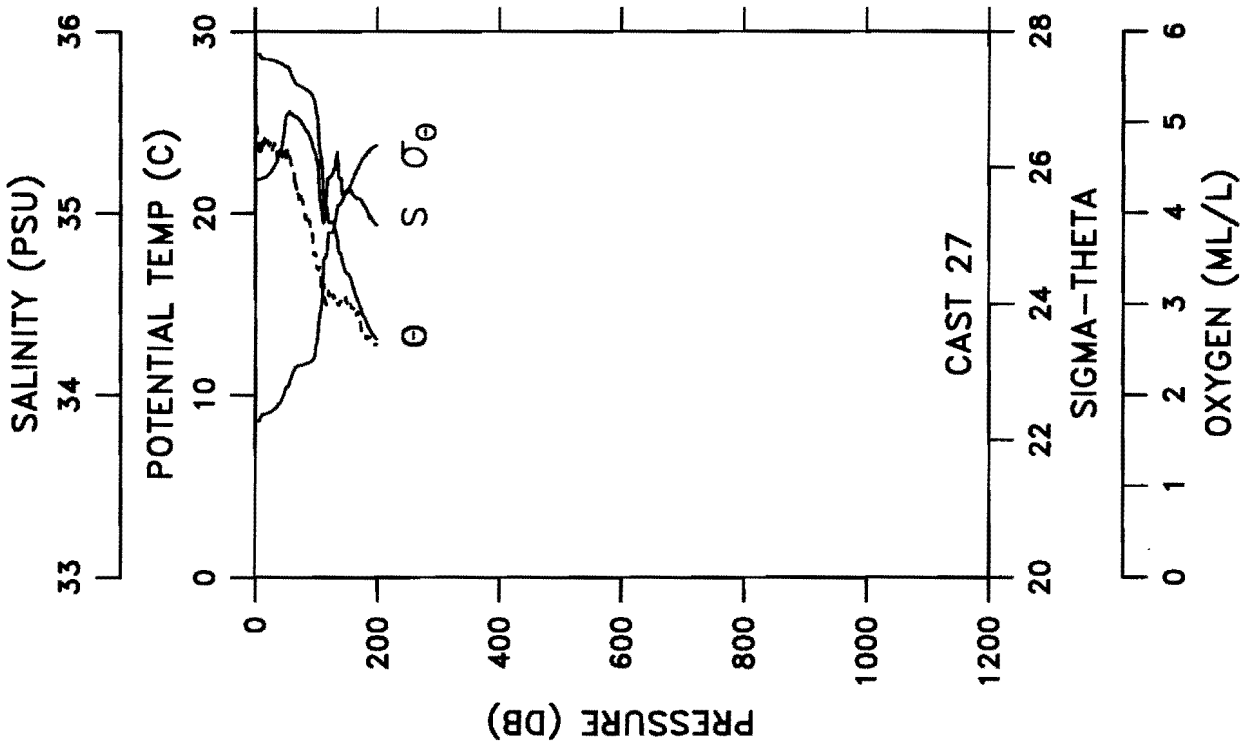


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.407 | 35.197 | 4.84 | 22.411 | 0.000 |
| 10 | 28.410 | 35.208 | 4.83 | 22.419 | 0.054 |
| 20 | 28.384 | 35.222 | 4.73 | 22.438 | 0.108 |
| 30 | 28.129 | 35.292 | 4.70 | 22.574 | 0.162 |
| 40 | 26.896 | 35.512 | 4.71 | 23.139 | 0.213 |
| 50 | 26.575 | 35.521 | 4.07 | 23.248 | 0.259 |
| 60 | 26.257 | 35.485 | 3.87 | 23.321 | 0.306 |
| 70 | 25.291 | 35.288 | 3.46 | 23.472 | 0.351 |
| 80 | 24.408 | 35.158 | 3.30 | 23.641 | 0.394 |
| 90 | 22.033 | 35.351 | 3.17 | 24.477 | 0.434 |
| 100 | 20.167 | 35.236 | 3.15 | 24.899 | 0.466 |
| 110 | 19.315 | 35.232 | 3.08 | 25.119 | 0.496 |
| 120 | 19.007 | 35.266 | 3.01 | 25.224 | 0.525 |
| 130 | 17.648 | 35.216 | 2.97 | 25.525 | 0.551 |
| 140 | 16.174 | 35.049 | 3.01 | 25.746 | 0.575 |
| 150 | 15.207 | 35.024 | 3.07 | 25.945 | 0.597 |
| 160 | 14.269 | 34.961 | 3.02 | 26.101 | 0.617 |
| 170 | 13.812 | 34.947 | 2.79 | 26.186 | 0.636 |
| 180 | 13.759 | 34.965 | 2.83 | 26.211 | 0.655 |
| 190 | 13.610 | 34.971 | 2.86 | 26.247 | 0.673 |
| 200 | 13.496 | 34.973 | 2.53 | 26.272 | 0.691 |
| 250 | 12.793 | 34.909 | 2.22 | 26.364 | 0.778 |
| 300 | 11.927 | 34.843 | 0.80 | 26.481 | 0.861 |
| 350 | 10.327 | 34.749 | 0.54 | 26.700 | 0.937 |
| 400 | 9.207 | 34.686 | 0.59 | 26.839 | 1.004 |
| 450 | 8.766 | 34.663 | 0.71 | 26.892 | 1.068 |
| 500 | 8.117 | 34.626 | 1.03 | 26.963 | 1.127 |
| 550 | 7.634 | 34.605 | 1.16 | 27.018 | 1.185 |
| 600 | 7.245 | 34.587 | 1.34 | 27.060 | 1.241 |
| 650 | 6.646 | 34.569 | 1.37 | 27.128 | 1.294 |
| 700 | 6.240 | 34.558 | 1.50 | 27.173 | 1.345 |
| 750 | 5.696 | 34.546 | 1.65 | 27.233 | 1.392 |
| 800 | 5.520 | 34.547 | 1.69 | 27.255 | 1.438 |
| 800 | 4.844 | 34.545 | 1.90 | 27.321 | 1.526 |
| 1000 | 4.646 | 34.549 | 1.90 | 27.358 | 1.610 |
| 1003 | 4.631 | 34.550 | 1.90 | 27.360 | 1.612 |

CAST EP1-87-RS -027 DATE 12 MAY 87 TIME 0020 GMT
LAT 00 02.4S LONG 139 59.4W

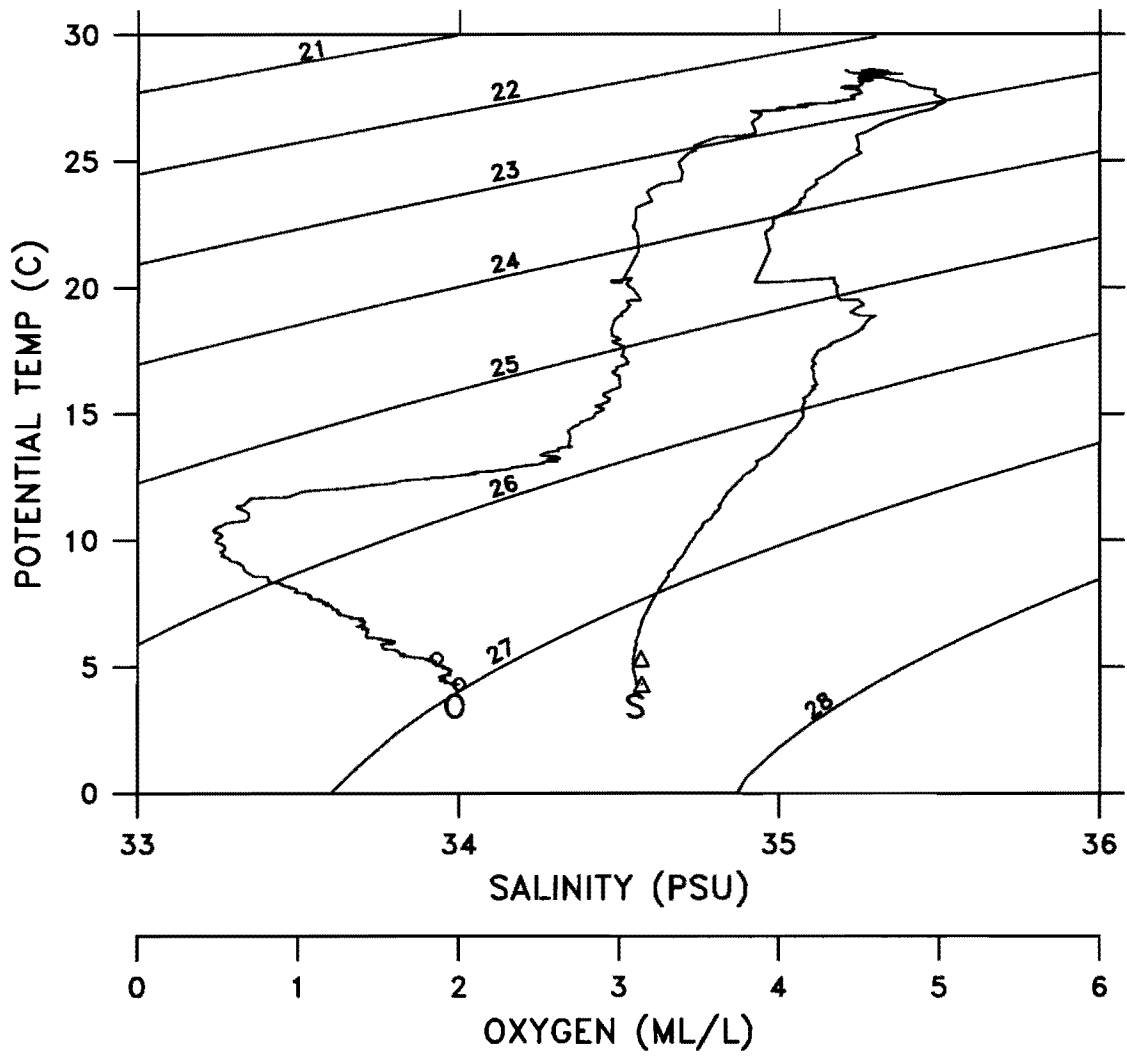


CAST EP1-87-RS -027 DATE 12 MAY 87 TIME 0020 GMT
 LAT 00 02.4S LONG 139 58.4W WEATHER 1 SEA STATE 3
 BAROMETER 07 WIND DIR 075 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 28.0 WET 26.4 DEPTH 4322 M

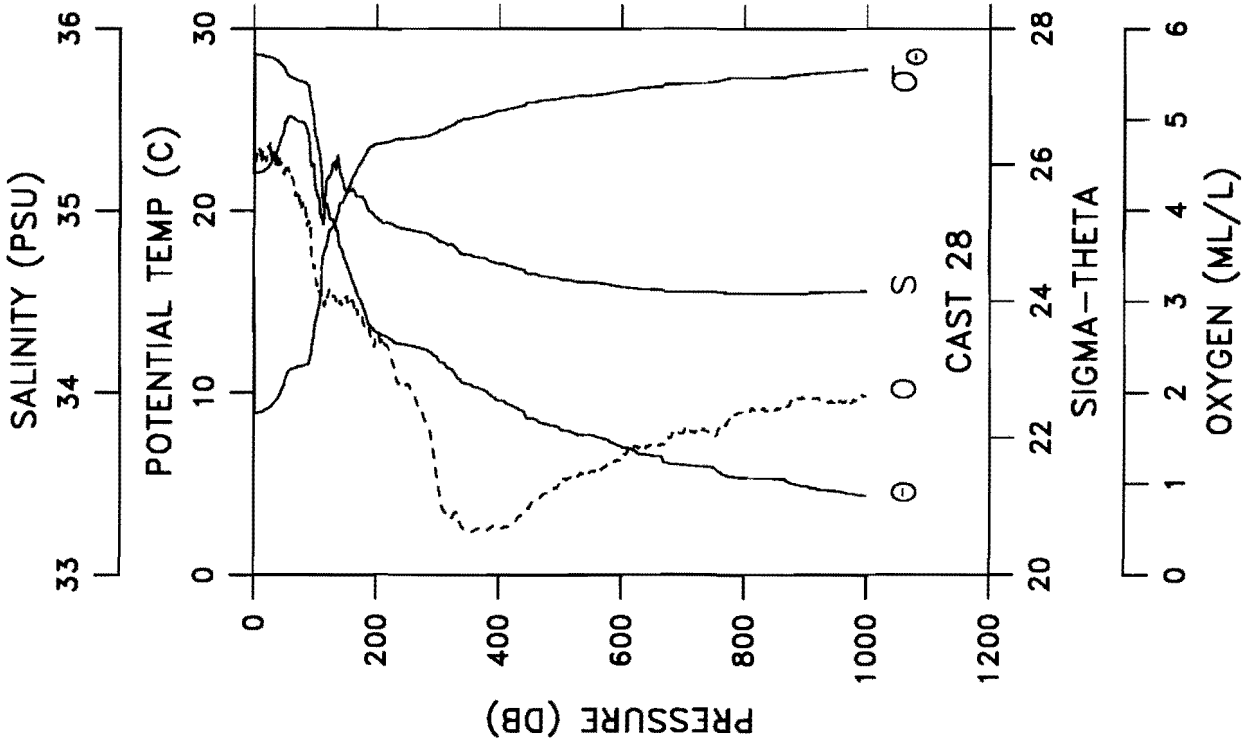


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.750 | 35.188 | 4.98 | 22.291 | 0.000 |
| 10 | 28.582 | 35.189 | 4.69 | 22.348 | 0.055 |
| 20 | 28.475 | 35.206 | 4.80 | 22.395 | 0.110 |
| 30 | 28.422 | 35.251 | 4.74 | 22.447 | 0.164 |
| 40 | 28.307 | 35.320 | 4.64 | 22.537 | 0.218 |
| 50 | 28.075 | 35.523 | 4.61 | 22.765 | 0.270 |
| 60 | 27.532 | 35.540 | 4.54 | 22.956 | 0.320 |
| 70 | 27.055 | 35.522 | 4.22 | 23.085 | 0.369 |
| 80 | 26.869 | 35.475 | 3.99 | 23.120 | 0.417 |
| 90 | 26.620 | 35.410 | 3.81 | 23.149 | 0.464 |
| 100 | 25.500 | 35.283 | 3.41 | 23.404 | 0.511 |
| 110 | 22.073 | 34.968 | 3.16 | 24.174 | 0.553 |
| 120 | 19.488 | 35.193 | 3.15 | 25.044 | 0.585 |
| 130 | 19.088 | 35.251 | 3.07 | 25.197 | 0.615 |
| 140 | 17.721 | 35.193 | 3.03 | 25.490 | 0.641 |
| 150 | 16.696 | 35.117 | 3.01 | 25.677 | 0.665 |
| 160 | 15.940 | 35.100 | 2.95 | 25.839 | 0.688 |
| 170 | 14.981 | 35.079 | 2.90 | 26.038 | 0.709 |
| 180 | 14.199 | 35.033 | 2.66 | 26.171 | 0.729 |
| 190 | 13.432 | 34.973 | 2.61 | 26.285 | 0.747 |
| 199 | 13.083 | 34.935 | 2.56 | 26.326 | 0.763 |

CAST EP1-87-RS -028 DATE 12 MAY 87 TIME 0908 GMT
LAT 00 02.8N LONG 139 54.8W

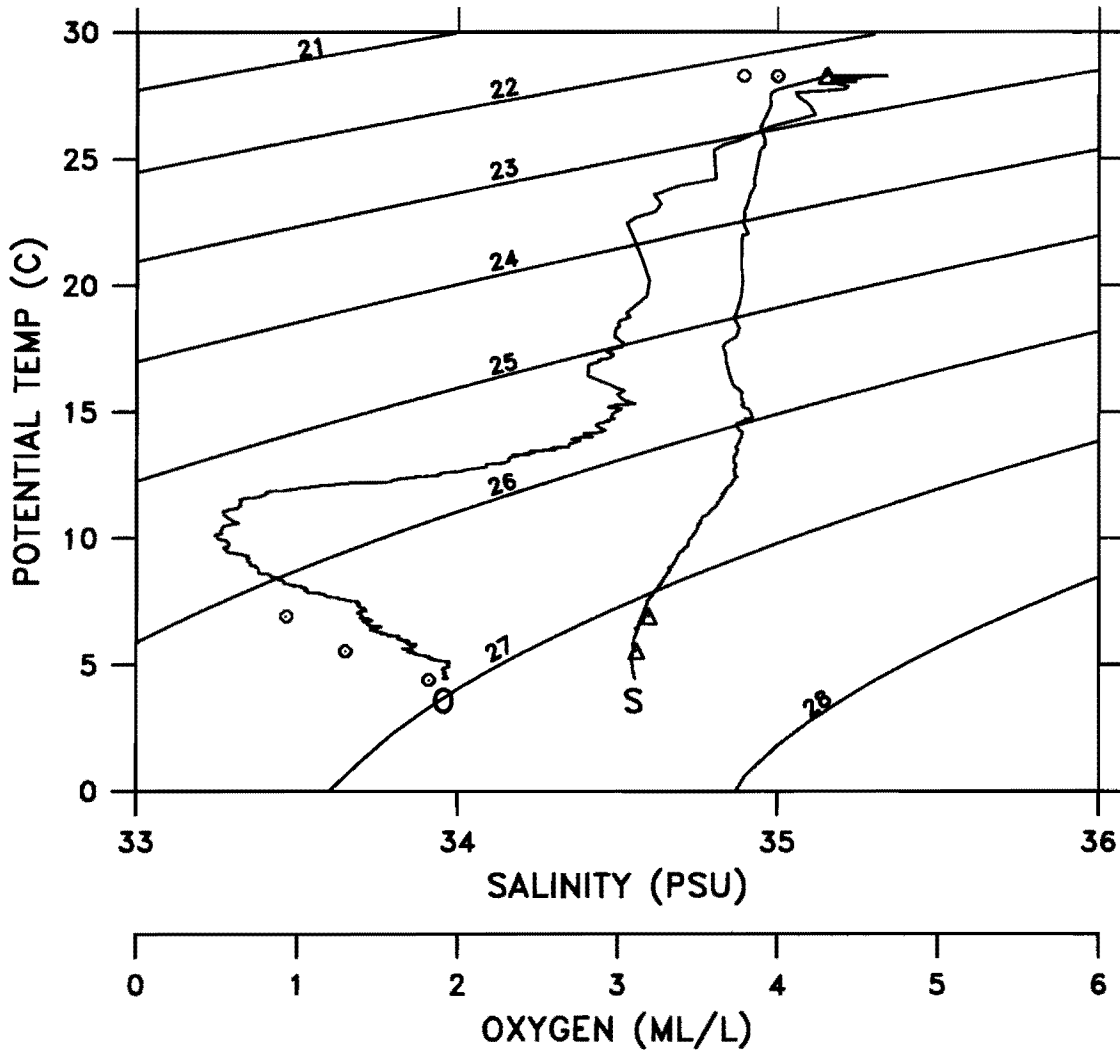


CAST EP1-87-RS-028 DATE 12 MAY 87 TIME 0908 GMT
 LAT 00 02.8N LONG 139 54.8W WEATHER 6 SEA STATE 3
 BAROMETER 10 WIND DIR 100 T SPD 08 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 28.9 WET 26.5 DEPTH 4361 M

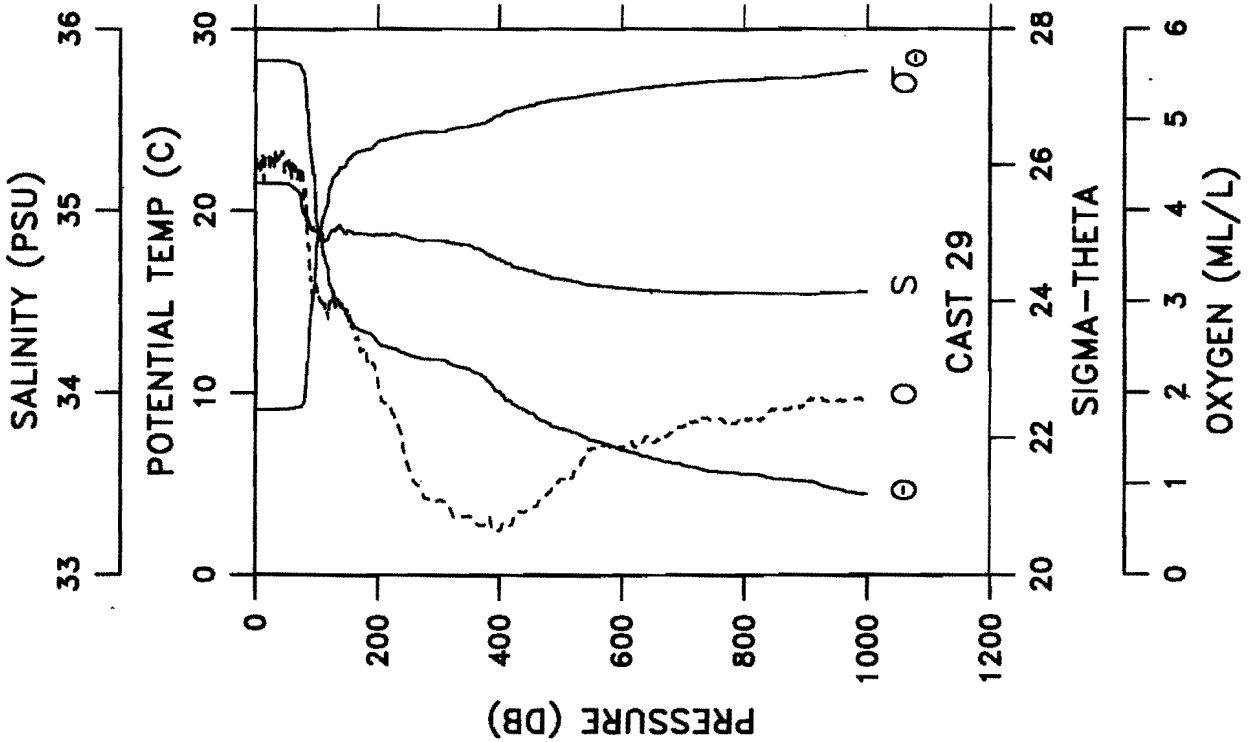


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.566 | 35.208 | 4.53 | 22.367 | 0.000 |
| 10 | 28.544 | 35.211 | 4.61 | 22.377 | 0.055 |
| 20 | 28.453 | 35.229 | 4.56 | 22.420 | 0.109 |
| 30 | 28.382 | 35.283 | 4.62 | 22.485 | 0.163 |
| 40 | 28.173 | 35.357 | 4.58 | 22.609 | 0.216 |
| 50 | 27.791 | 35.486 | 4.50 | 22.831 | 0.268 |
| 60 | 27.321 | 35.517 | 4.38 | 23.006 | 0.317 |
| 70 | 27.163 | 35.492 | 4.17 | 23.038 | 0.366 |
| 80 | 27.078 | 35.482 | 4.01 | 23.058 | 0.414 |
| 90 | 26.512 | 35.330 | 3.83 | 23.123 | 0.462 |
| 100 | 24.078 | 35.118 | 3.26 | 23.709 | 0.507 |
| 110 | 21.467 | 34.970 | 3.12 | 24.345 | 0.548 |
| 120 | 20.045 | 35.184 | 3.05 | 24.891 | 0.580 |
| 130 | 19.307 | 35.264 | 3.07 | 25.145 | 0.610 |
| 140 | 17.994 | 35.202 | 3.00 | 25.429 | 0.637 |
| 150 | 17.126 | 35.103 | 3.05 | 25.564 | 0.663 |
| 160 | 16.155 | 35.119 | 3.00 | 25.804 | 0.686 |
| 170 | 15.240 | 35.074 | 2.88 | 25.977 | 0.708 |
| 180 | 14.519 | 35.057 | 2.72 | 26.122 | 0.728 |
| 190 | 13.651 | 34.991 | 2.61 | 26.254 | 0.747 |
| 200 | 13.295 | 34.958 | 2.59 | 26.301 | 0.764 |
| 250 | 12.631 | 34.898 | 2.10 | 26.388 | 0.851 |
| 300 | 11.908 | 34.842 | 1.02 | 26.485 | 0.934 |
| 350 | 10.477 | 34.757 | 0.49 | 26.680 | 1.010 |
| 400 | 9.568 | 34.708 | 0.52 | 26.797 | 1.080 |
| 450 | 8.560 | 34.652 | 0.75 | 26.915 | 1.144 |
| 500 | 7.960 | 34.623 | 0.99 | 26.984 | 1.204 |
| 550 | 7.639 | 34.606 | 1.13 | 27.018 | 1.261 |
| 600 | 7.006 | 34.578 | 1.30 | 27.086 | 1.316 |
| 650 | 6.512 | 34.565 | 1.42 | 27.142 | 1.368 |
| 700 | 6.031 | 34.553 | 1.55 | 27.195 | 1.417 |
| 750 | 5.856 | 34.554 | 1.52 | 27.219 | 1.465 |
| 800 | 5.327 | 34.544 | 1.78 | 27.275 | 1.510 |
| 900 | 4.864 | 34.545 | 1.94 | 27.330 | 1.598 |
| 1000 | 4.337 | 34.555 | 1.96 | 27.396 | 1.678 |
| 1010 | 4.301 | 34.555 | 1.97 | 27.401 | 1.686 |

CAST EP1-87-RS -029 DATE 12 MAY 87 TIME 1454 GMT
LAT 00 54.7N LONG 139 59.3W

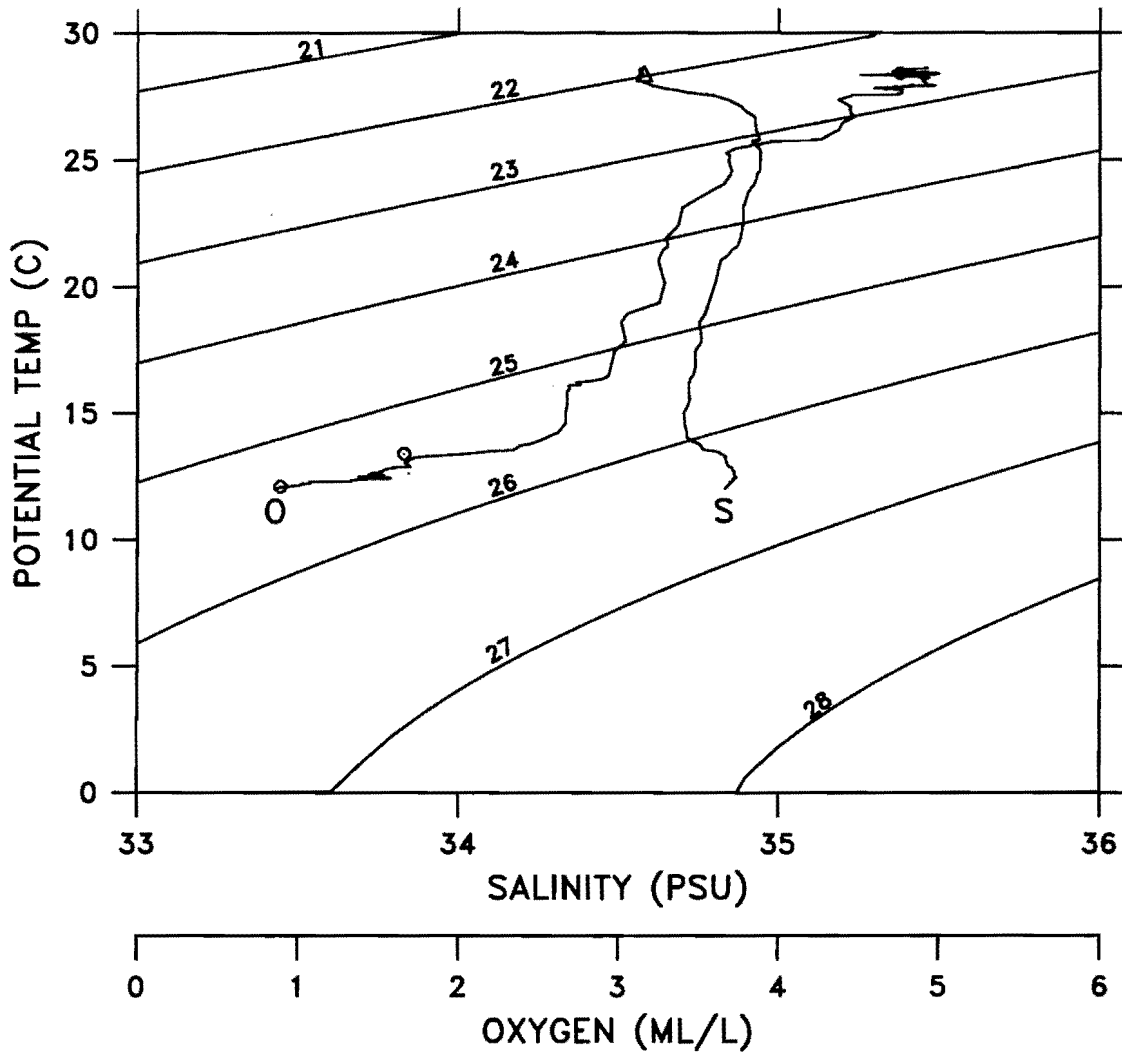


CAST EP1-87-RS -029 DATE 12 MAY 87 TIME 1454 GMT
 LAT 00 54.7N LONG 139 59.3W WEATHER 1 SEA STATE 1
 BAROMETER 08 WIND DIR 010 T SPD 08 KT VISIBILITY 7
 CLOUD 6 AMOUNT 3 DRY 27.0 WET 25.5 DEPTH 4304 M

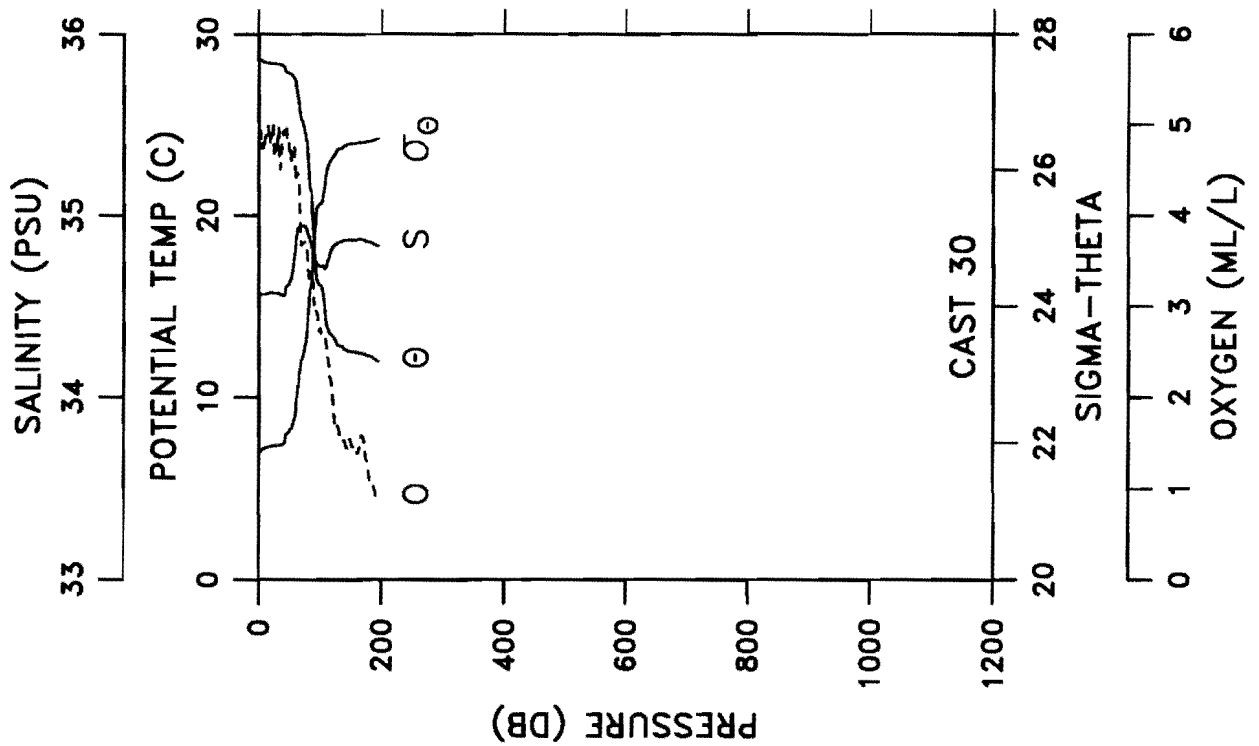


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.263 | 35.153 | 4.64 | 22.426 | 0.000 |
| 10 | 28.275 | 35.151 | 4.62 | 22.420 | 0.054 |
| 20 | 28.274 | 35.151 | 4.60 | 22.420 | 0.108 |
| 30 | 28.265 | 35.150 | 4.61 | 22.423 | 0.162 |
| 40 | 28.259 | 35.150 | 4.60 | 22.425 | 0.217 |
| 50 | 28.235 | 35.147 | 4.54 | 22.431 | 0.271 |
| 60 | 28.170 | 35.133 | 4.45 | 22.441 | 0.325 |
| 70 | 28.063 | 35.105 | 4.40 | 22.455 | 0.379 |
| 80 | 27.441 | 34.976 | 4.12 | 22.561 | 0.433 |
| 90 | 23.204 | 34.906 | 3.27 | 23.805 | 0.480 |
| 100 | 19.360 | 34.881 | 3.14 | 24.839 | 0.517 |
| 110 | 17.733 | 34.839 | 3.03 | 25.215 | 0.547 |
| 120 | 16.068 | 34.861 | 2.95 | 25.626 | 0.573 |
| 130 | 15.207 | 34.891 | 2.95 | 25.843 | 0.596 |
| 140 | 14.732 | 34.901 | 2.98 | 25.955 | 0.618 |
| 150 | 14.191 | 34.891 | 2.89 | 26.063 | 0.638 |
| 160 | 13.672 | 34.874 | 2.69 | 26.159 | 0.658 |
| 170 | 13.455 | 34.873 | 2.50 | 26.203 | 0.676 |
| 180 | 13.332 | 34.871 | 2.42 | 26.226 | 0.695 |
| 190 | 13.212 | 34.863 | 2.33 | 26.245 | 0.713 |
| 200 | 12.771 | 34.866 | 2.12 | 26.335 | 0.731 |
| 250 | 12.100 | 34.855 | 1.20 | 26.458 | 0.814 |
| 300 | 11.826 | 34.837 | 0.82 | 26.496 | 0.895 |
| 350 | 11.310 | 34.811 | 0.65 | 26.573 | 0.974 |
| 400 | 10.098 | 34.737 | 0.49 | 26.730 | 1.048 |
| 450 | 8.912 | 34.672 | 0.72 | 26.876 | 1.114 |
| 500 | 8.036 | 34.625 | 1.05 | 26.974 | 1.174 |
| 550 | 7.401 | 34.592 | 1.39 | 27.041 | 1.231 |
| 600 | 6.855 | 34.573 | 1.39 | 27.103 | 1.285 |
| 650 | 6.402 | 34.562 | 1.47 | 27.155 | 1.336 |
| 700 | 6.044 | 34.552 | 1.63 | 27.193 | 1.386 |
| 750 | 5.699 | 34.548 | 1.71 | 27.233 | 1.433 |
| 800 | 5.535 | 34.548 | 1.70 | 27.254 | 1.479 |
| 900 | 5.154 | 34.543 | 1.88 | 27.295 | 1.569 |
| 1000 | 4.451 | 34.554 | 1.91 | 27.384 | 1.652 |
| 1008 | 4.429 | 34.555 | 1.91 | 27.386 | 1.658 |

CAST EP1-87-RS -030 DATE 12 MAY 87 TIME 2324 GMT
LAT 01 59.0N LONG 139 58.4W

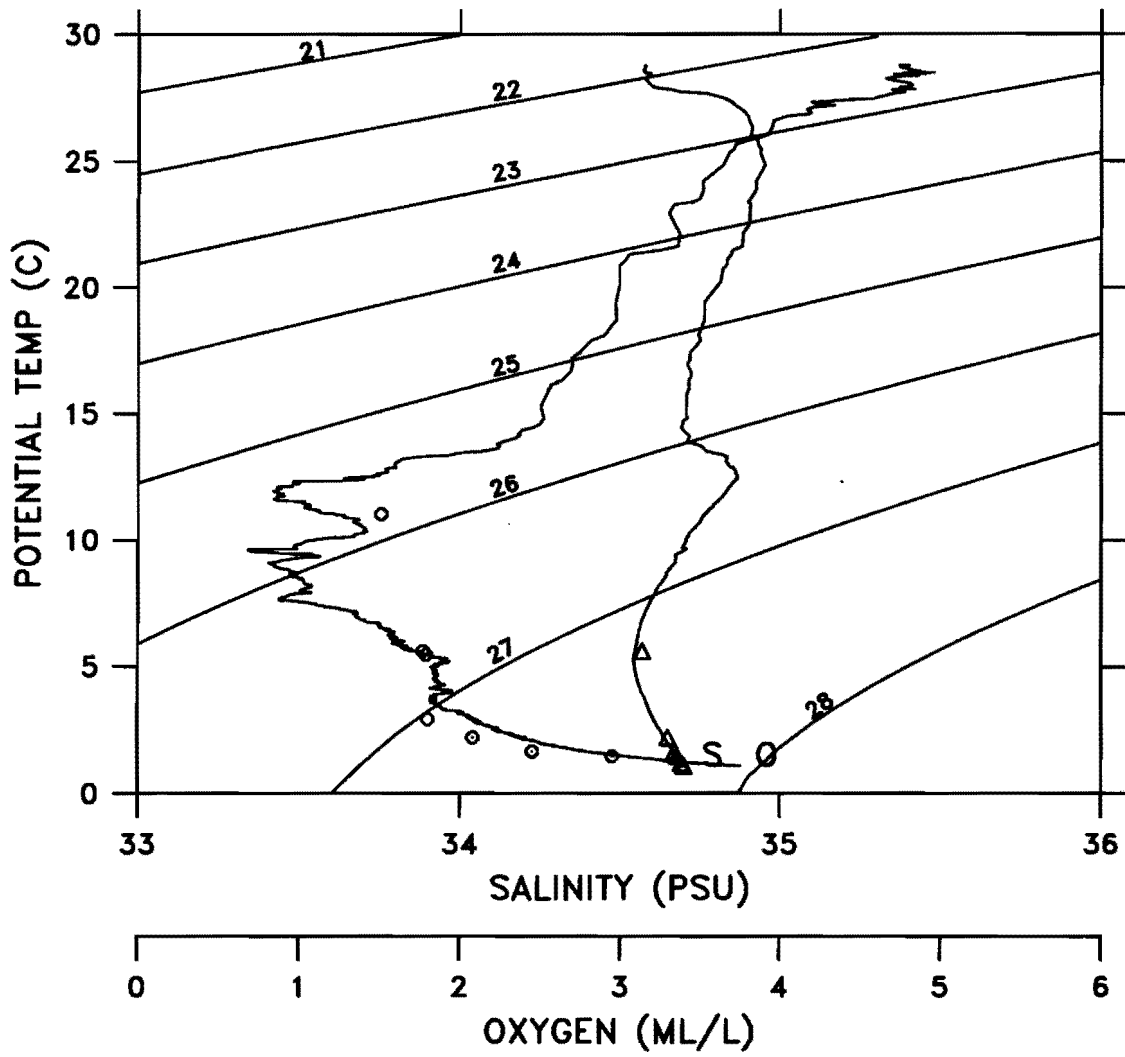


CAST EP1-87-RS -030 DATE 12 MAY 87 TIME 2324 GMT
 LAT 01 59.0N LONG 139 58.4W WEATHER 1 SEA STATE 0
 BAROMETER 09 WIND DIR 140 T SPD 04 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 29.2 WET 26.0 DEPTH 4374 M

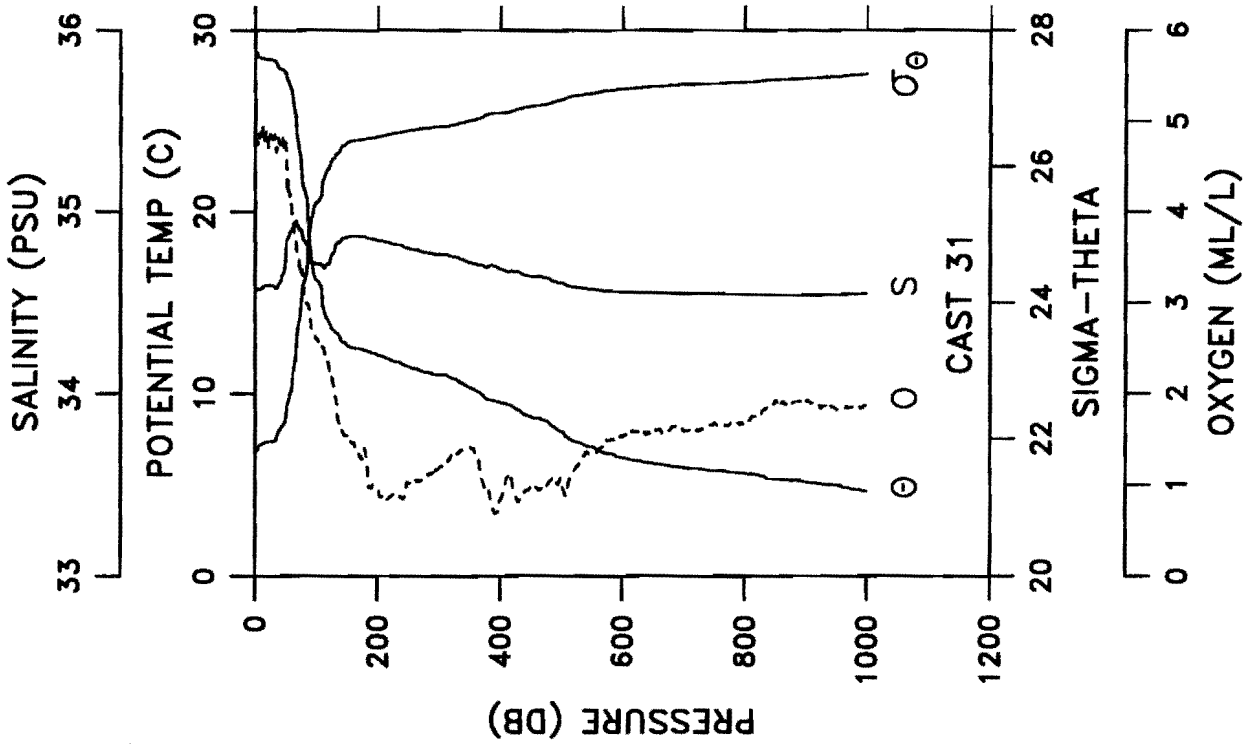


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.604 | 34.567 | 4.93 | 21.873 | 0.000 |
| 10 | 28.441 | 34.565 | 4.84 | 21.926 | 0.059 |
| 20 | 28.389 | 34.575 | 4.87 | 21.950 | 0.118 |
| 30 | 28.348 | 34.572 | 4.80 | 21.961 | 0.177 |
| 40 | 28.230 | 34.560 | 4.93 | 21.991 | 0.235 |
| 50 | 27.827 | 34.836 | 4.71 | 22.178 | 0.292 |
| 60 | 27.354 | 34.843 | 4.37 | 22.488 | 0.348 |
| 70 | 25.239 | 34.943 | 3.68 | 23.227 | 0.398 |
| 80 | 23.128 | 34.890 | 3.40 | 23.815 | 0.443 |
| 90 | 18.594 | 34.753 | 3.02 | 24.937 | 0.478 |
| 100 | 16.126 | 34.721 | 2.76 | 25.505 | 0.504 |
| 110 | 14.039 | 34.715 | 2.55 | 25.960 | 0.528 |
| 120 | 13.371 | 34.822 | 2.01 | 26.181 | 0.547 |
| 130 | 12.852 | 34.851 | 1.61 | 26.308 | 0.565 |
| 140 | 12.647 | 34.862 | 1.50 | 26.357 | 0.582 |
| 150 | 12.520 | 34.864 | 1.51 | 26.383 | 0.599 |
| 160 | 12.468 | 34.865 | 1.39 | 26.394 | 0.616 |
| 170 | 12.408 | 34.866 | 1.56 | 26.407 | 0.633 |
| 180 | 12.283 | 34.854 | 1.12 | 26.421 | 0.649 |
| 190 | 12.086 | 34.841 | 0.92 | 26.450 | 0.666 |
| 195 | 11.989 | 34.834 | 0.86 | 26.463 | 0.674 |

CAST EP1-87-RS -031 DATE 13 MAY 87 TIME 0850 GMT
LAT 02 01.6N LONG 140 00.7W



CAST EP1-87-RS -031 DATE 13 MAY 87 TIME 0850 GMT
 LAT 02 01.6N LONG 140 00.7W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 000 T SPD 00 KT VISIBILITY 7
 CLOUD 6 AMOUNT 3 DRY 27.1 WET 25.8 DEPTH 4392 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D |
|-----------|--------------|-----------|------------|----------------|---------|
| 0 | 28.745 | 34.577 | 4.80 | 21.833 | 0.000 |
| 10 | 28.469 | 34.577 | 4.94 | 21.925 | 0.059 |
| 20 | 28.404 | 34.593 | 4.78 | 21.959 | 0.118 |
| 30 | 28.353 | 34.591 | 4.81 | 21.973 | 0.177 |
| 40 | 27.893 | 34.608 | 4.74 | 22.137 | 0.234 |
| 50 | 27.657 | 34.767 | 4.71 | 22.333 | 0.291 |
| 60 | 26.578 | 34.903 | 3.96 | 22.781 | 0.344 |
| 70 | 23.760 | 34.920 | 3.51 | 23.653 | 0.390 |
| 80 | 21.225 | 34.841 | 3.04 | 24.313 | 0.430 |
| 90 | 17.894 | 34.751 | 2.81 | 25.108 | 0.463 |
| 100 | 16.245 | 34.715 | 2.59 | 25.473 | 0.489 |
| 110 | 14.808 | 34.709 | 2.52 | 25.790 | 0.514 |
| 120 | 13.982 | 34.711 | 2.31 | 25.969 | 0.535 |
| 130 | 13.443 | 34.795 | 1.99 | 26.145 | 0.555 |
| 140 | 12.918 | 34.843 | 1.59 | 26.288 | 0.573 |
| 150 | 12.675 | 34.880 | 1.53 | 26.350 | 0.591 |
| 160 | 12.528 | 34.867 | 1.47 | 26.384 | 0.608 |
| 170 | 12.476 | 34.864 | 1.33 | 26.392 | 0.624 |
| 180 | 12.394 | 34.862 | 1.37 | 26.406 | 0.641 |
| 190 | 12.262 | 34.851 | 0.96 | 26.424 | 0.658 |
| 200 | 12.134 | 34.844 | 0.96 | 26.443 | 0.674 |
| 250 | 11.497 | 34.801 | 1.02 | 26.530 | 0.754 |
| 300 | 11.048 | 34.766 | 1.18 | 26.585 | 0.830 |
| 350 | 10.346 | 34.721 | 1.42 | 26.675 | 0.905 |
| 400 | 9.506 | 34.686 | 0.84 | 26.790 | 0.974 |
| 450 | 8.724 | 34.645 | 1.00 | 26.884 | 1.038 |
| 500 | 7.902 | 34.609 | 1.03 | 26.982 | 1.099 |
| 550 | 7.083 | 34.576 | 1.36 | 27.073 | 1.154 |
| 600 | 6.494 | 34.560 | 1.54 | 27.141 | 1.206 |
| 650 | 6.193 | 34.555 | 1.58 | 27.176 | 1.256 |
| 700 | 5.956 | 34.553 | 1.58 | 27.205 | 1.304 |
| 750 | 5.803 | 34.550 | 1.68 | 27.222 | 1.351 |
| 800 | 5.647 | 34.547 | 1.70 | 27.239 | 1.398 |
| 900 | 5.169 | 34.543 | 1.91 | 27.283 | 1.489 |
| 1000 | 4.653 | 34.551 | 1.87 | 27.358 | 1.574 |
| 1500 | 2.928 | 34.604 | 2.09 | 27.576 | 1.926 |
| 2000 | 2.186 | 34.639 | 2.40 | 27.867 | 2.210 |
| 2500 | 1.645 | 34.666 | 2.78 | 27.731 | 2.455 |
| 3000 | 1.453 | 34.675 | 3.04 | 27.753 | 2.686 |
| 3500 | 1.192 | 34.690 | 3.46 | 27.783 | 2.906 |
| 4000 | 1.104 | 34.693 | 3.88 | 27.791 | 3.121 |
| 4122 | 1.087 | 34.693 | 3.72 | 27.793 | 3.174 |

CAST EP1-87-RS -001 LAT 00 54.5N LONG 105 34.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 14. | 28.931 | 33.462 | 1.55 | 28.928 | 20.936 |
| 32. | 26.573 | 34.811* | 1.59 | 26.566* | 22.715* |
| 52. | 23.476 | 34.902* | 1.34 | 23.465* | 23.726* |
| 74. | 19.843 | 34.883* | 2.85 | 19.829* | 24.719* |
| 92. | 16.777 | 34.909* | 0.72 | 16.762* | 25.502* |
| 119. | 15.020 | 34.903 | 0.65 | 15.002 | 25.897 |
| 149. | 14.312 | 34.919* | 0.60 | 14.290* | 26.064* |

CAST EP1-87-RS -002 LAT 00 54.4N LONG 105 34.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 34. | 25.141 | 34.880 | 1.54 | 25.134 | 23.212 |
| 193. | 13.445 | 34.937* | 0.57 | 13.418* | 26.260* |
| 295. | 12.195 | 34.852* | 0.14 | 12.156* | 26.445* |
| 596. | 6.958 | 34.583 | 0.39 | 6.901 | 27.104 |
| 797. | 5.345 | 34.544* | 0.56 | 5.278* | 27.281* |
| 999. | 4.523 | 36.313* | 0.63 | 4.440* | 28.782* |
| 1491. | 2.825 | 34.618* | 0.69 | 2.720* | 27.605* |
| 1994. | 2.167 | 34.649 | 0.86 | 2.028 | 27.688 |
| 2493. | 1.855 | 34.667 | 0.96 | 1.678 | 27.730 |
| 2997. | 1.675 | 34.679 | 1.09 | 1.455 | 27.756 |
| 3442. | 1.567 | 34.687 | 1.16 | 1.305 | 27.773 |

CAST EP1-87-RS -003 LAT 00 01.7N LONG 107 52.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 28.668 | 34.494 | 1.54 | 28.665 | 21.798 |
| 192. | 13.314 | 34.952 | 0.76 | 13.287 | 26.298 |
| 294. | 12.048 | 34.871 | 0.07 | 12.009 | 26.488 |
| 591. | 7.186 | 34.614 | 0.35 | 7.129 | 27.097 |
| 794. | 5.460 | 34.600 | 0.55 | 5.392 | 27.312 |
| 1019. | 4.439 | 34.611 | 0.63 | 4.358 | 27.439 |

* Calculated from CTD values

CAST EP1-87-RS -004 LAT 02 12.8N LONG 110 18.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 74. | 28.758 | 34.168 | 1.73 | 28.740 | 21.528 |
| 194. | 13.314 | 34.931 | 0.52 | 13.287 | 26.282 |
| 294. | 12.006 | 34.853 | 0.10 | 11.968 | 26.482 |
| 596. | 6.873 | 34.608 | 0.33 | 6.817 | 27.135 |
| 796. | 5.546 | 34.568 | 0.36 | 5.477 | 27.276 |
| 1001. | 4.396 | 34.566 | 0.50 | 4.317 | 27.408 |

CAST EP1-87-RS -005 LAT 03 00.7N LONG 109 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 28.919 | 33.620 | 1.70 | 28.915 | 21.059 |
| 192. | 13.343 | 34.932 | 0.54 | 13.316 | 26.277 |
| 295. | 12.219 | 34.851 | 0.24 | 12.180 | 26.439 |
| 595. | 6.751 | 34.587 | 0.22 | 6.695 | 27.135 |
| 793. | 5.406 | 34.568 | 0.33 | 5.339 | 27.293 |
| 1015. | 4.366 | 34.566 | 0.54 | 4.286 | 27.411 |

CAST EP1-87-RS -006 LAT 04 00.1N LONG 110 00.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 14. | 29.035 | 34.001 | 1.63 | 29.032 | 21.306 |
| 193. | 12.742 | 34.902 | 0.44 | 12.716 | 26.374 |
| 293. | 11.216 | 34.787 | 0.36 | 11.179 | 26.578 |
| 593. | 7.168 | 34.598 | 0.10 | 7.111 | 27.087 |
| 794. | 5.581 | 34.567 | 0.34 | 5.512 | 27.271 |

CAST EP1-87-RS -007 LAT 05 00.6N LONG 110 03.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 198. | 10.671 | 34.685 | 0.51 | 10.647 | 26.594 |
| 293. | 9.965 | 34.697 | 0.42 | 9.931 | 26.727 |
| 596. | 6.994 | 34.583* | 0.07 | 6.937* | 27.099* |
| 805. | 5.447 | 34.568 | 0.22 | 5.378 | 27.288 |
| 953. | 4.742 | 34.571 | 0.32 | 4.665 | 27.373 |
| 1499. | 2.991 | 34.633 | 0.57 | 2.883 | 27.603 |
| 1998. | 2.255 | 34.572 | 0.73 | 2.115 | 27.620 |
| 2495. | 1.866 | 34.675 | 0.85 | 1.689 | 27.735 |
| 2993. | 1.791 | 34.678 | 0.90 | 1.568 | 27.747 |
| 3493. | 1.552 | 34.691 | 1.07 | 1.285 | 27.778 |
| 3683. | 1.503 | 34.694 | 1.12 | 1.218 | 27.785 |
| 3793. | 1.479 | 34.692* | 1.15 | 1.183* | 27.786* |

CAST EP1-87-RS -008 LAT 05 02.5N LONG 110 01.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 119. | 14.433 | 34.646 | 0.58 | 14.415 | 25.826 |

CAST EP1-87-RS -009 LAT 00 59.7N LONG 109 59.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 28.615 | 34.325 | 1.55 | 28.611 | 21.689 |
| 193. | 13.181 | 34.934 | 0.55 | 13.154 | 26.311 |
| 293. | 11.773 | 34.827 | 0.10 | 11.735 | 26.505 |
| 593. | 7.037 | 34.599 | 0.37 | 6.980 | 27.106 |
| 792. | 5.514 | 34.599 | 0.52 | 5.446 | 27.273 |
| 1009. | 4.418 | 34.567 | 0.62 | 4.338 | 27.406 |

* Calculated from CTD values

CAST EP1-87-RS -010 LAT 00 00.7N LONG 109 59.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 197. | 13.372 | 34.956 | 0.79 | 13.344 | 26.290 |
| 293. | 12.112 | 34.869 | 0.12 | 12.073 | 26.474 |
| 592. | 6.663 | 34.574* | 0.42 | 6.608* | 27.137* |
| 802. | 5.420 | 34.564 | 0.53 | 5.352 | 27.288 |
| 984. | 4.469 | 34.570 | 0.60 | 4.391 | 27.403 |
| 1495. | 3.044 | 34.615 | 0.66 | 2.936 | 27.584 |
| 1995. | 2.280 | 34.644 | 0.77 | 2.140 | 27.675 |
| 2495. | 1.844 | 34.674 | 0.93 | 1.667 | 27.736 |
| 2999. | 1.661 | 34.682 | 1.04 | 1.441 | 27.759 |
| 3246. | 1.577 | 34.690 | 1.09 | 1.334 | 27.773 |
| 3499. | 1.521 | 34.692 | 1.14 | 1.254 | 27.781 |
| 3719. | 1.446 | 34.703 | 1.22 | 1.158 | 27.796 |

CAST EP1-87-RS -011 LAT 00 01.0N LONG 109 52.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 27.979 | 34.736 | 1.48 | 27.976 | 22.206 |

CAST EP1-87-RS -012 LAT 00 59.9S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 15. | 28.065 | 34.920 | 1.59 | 28.061 | 22.317 |
| 196. | 12.988 | 34.921* | 0.60 | 12.961* | 26.340* |
| 296. | 12.329 | 34.887* | 0.06 | 12.290* | 26.446* |
| 593. | 6.922 | 34.600 | 0.52 | 6.866 | 27.122 |
| 798. | 5.414 | 34.557 | 0.62 | 5.346 | 27.283 |
| 1003. | 4.553 | 34.559 | 0.66 | 4.473 | 27.385 |

CAST EP1-87-RS -013 LAT 01 59.9S LONG 109 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 15. | 28.505 | 35.081* | 1.58 | 28.501* | 22.293* |
| 195. | 12.939 | 34.922 | 0.55 | 12.912 | 26.351 |
| 296. | 12.317 | 34.898 | 0.04 | 12.278 | 26.457 |
| 594. | 6.686 | 34.595 | 0.42 | 6.631 | 27.150 |
| 790. | 5.282 | 34.561 | 0.57 | 5.216 | 27.302 |
| 1013. | 4.265 | 34.570 | 0.61 | 4.186 | 27.425 |

CAST EP1-87-RS -014 LAT 02 59.9S LONG 109 59.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 14. | 28.322 | 34.871 | 1.63 | 28.319 | 22.195 |
| 195. | 13.071 | 34.932 | 0.53 | 13.044 | 26.332 |
| 291. | 12.494 | 34.903 | 0.06 | 12.455 | 26.426 |
| 595. | 6.744 | 34.593 | 0.23 | 6.688 | 27.141 |
| 794. | 5.222 | 34.552* | 0.56 | 5.156* | 27.302* |
| 1014. | 4.351 | 34.566 | 0.62 | 4.271 | 27.412 |

CAST EP1-87-RS -015 LAT 03 59.5S LONG 110 01.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 15. | 27.893 | 34.357* | 1.58 | 27.890* | 21.949* |
| 197. | 13.056 | 34.950 | 0.51 | 13.029 | 26.349 |
| 296. | 11.987 | 34.876 | 0.04 | 11.948 | 26.503 |
| 593. | 7.027 | 34.603 | 0.17 | 6.970 | 27.110 |
| 795. | 5.385 | 34.553 | 0.67 | 5.318 | 27.284 |
| 993. | 4.379 | 34.555 | 0.68 | 4.301 | 27.401 |

* Calculated from CTD values

CAST EP1-87-RS -016 LAT 05 00.6S LONG 110 01.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 16. | 27.654 | 34.443 | 1.54 | 27.650 | 22.092 |
| 196. | 12.790 | 34.916* | 0.11 | 12.763* | 26.376* |
| 298. | 11.584 | 34.862 | 0.05 | 11.546 | 26.568 |
| 597. | 7.571 | 34.613* | 0.11 | 7.511* | 27.042* |
| 797. | 5.538 | 34.556 | 0.45 | 5.469 | 27.268 |
| 1008. | 4.350 | 34.559 | 0.68 | 4.271 | 27.407 |

CAST EP1-87-RS -017 LAT 05 59.8S LONG 110 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 16. | 27.633 | 34.740 | 1.42 | 27.629 | 22.322 |
| 196. | 12.243 | 34.903 | 0.30 | 12.217 | 26.473 |
| 294. | 10.738 | 34.806 | 0.12 | 10.702 | 26.678 |
| 594. | 6.841 | 34.580* | 0.23 | 6.785* | 27.118* |
| 794. | 5.610 | 34.555 | 0.49 | 5.541 | 27.258 |
| 1006. | 4.475 | 34.557 | 0.66 | 4.395 | 27.392 |

CAST EP1-87-RS -018 LAT 06 59.8S LONG 110 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 14. | 27.795 | 34.930 | 1.48 | 27.792 | 22.412 |
| 194. | 12.222 | 34.902 | 0.17 | 12.196 | 26.476 |
| 295. | 10.832 | 34.801* | 0.12 | 10.796* | 26.658* |
| 594. | 6.704 | 34.580 | 0.34 | 6.648 | 27.136 |
| 794. | 5.439 | 34.542* | 0.51 | 5.371* | 27.269* |

CAST EP1-87-RS -019 LAT 08 20.2S LONG 109 17.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 190. | 12.502 | 34.826* | 0.16 | 12.477* | 26.362* |
| 295. | 10.311 | 34.767* | 0.27 | 10.276* | 26.723* |
| 596. | 6.873 | 34.578* | 0.16 | 6.817* | 27.112* |
| 795. | 5.284 | 34.539* | 0.52 | 5.217* | 27.285* |
| 995. | 4.391 | 34.542* | 0.68 | 4.313* | 27.389* |
| 1297. | 3.478 | 34.586 | 0.71 | 3.382 | 27.519 |
| 1593. | 2.821 | 34.615 | 0.79 | 2.707 | 27.604 |
| 1891. | 2.362 | 34.641 | 0.86 | 2.229 | 27.656 |
| 2089. | 2.161 | 34.648 | 0.90 | 2.014 | 27.689 |
| 2397. | 1.933 | 34.670 | 0.96 | 1.763 | 27.726 |
| 2696. | 1.805 | 34.688 | 1.05 | 1.610 | 27.752 |
| 3105. | 1.774 | 34.685 | 1.06 | 1.541 | 27.754 |

CAST EP1-87-RS -020 LAT 08 20.1S LONG 109 17.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 17. | 27.583 | 34.982* | 1.45 | 27.579* | 22.520* |
| 122. | 19.545 | 35.682* | 1.23 | 19.523* | 25.409* |

CAST EP1-87-RS -022 LAT 00 00.1N LONG 114 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 27.905 | 34.902 | 1.53 | 27.902 | 22.355 |
| 196. | 13.217 | 34.947 | 0.74 | 13.190 | 26.314 |
| 294. | 12.181 | 34.874 | 0.17 | 12.142 | 26.465 |
| 596. | 7.067 | 34.600 | 0.34 | 7.010 | 27.103 |
| 793. | 5.628 | 34.566 | 0.53 | 5.559 | 27.265 |
| 1004. | 4.547 | 34.565 | 0.57 | 4.467 | 27.391 |

CAST EP1-87-RS -023 LAT 00 01.0S LONG 120 00.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 14. | 28.611 | 35.046 | 1.49 | 28.608 | 22.231 |
| 195. | 13.179 | 34.945 | 0.77 | 13.152 | 26.320 |
| 294. | 12.369 | 34.883 | 0.27 | 12.330 | 26.435 |
| 792. | 5.535 | 34.558 | 0.52 | 5.467 | 27.270 |
| 996. | 4.495 | 34.566 | 0.60 | 4.416 | 27.397 |

CAST EP1-87-RS -024 LAT 00 04.2N LONG 124 26.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 16. | 27.808 | 35.267* | 1.53 | 27.804* | 22.661* |
| 195. | 13.090 | 34.861* | 0.71 | 13.063* | 26.273* |
| 291. | 12.065 | 34.866 | 0.15 | 12.027 | 26.480 |
| 594. | 7.012 | 34.602 | 0.40 | 6.955 | 27.112 |
| 798. | 5.791 | 34.575 | 0.50 | 5.721 | 27.252 |
| 998. | 4.798 | 34.565 | 0.58 | 4.716 | 27.363 |

CAST EP1-87-RS -021 LAT 00 54.0N LONG 112 57.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 195. | 12.946 | 34.935 | 0.56 | 12.919 | 26.359 |
| 295. | 12.528 | 34.895 | 0.31 | 12.488 | 26.414 |
| 596. | 6.966 | 34.585* | 0.36 | 6.909* | 27.105* |
| 797. | 5.394 | 34.570 | 0.54 | 5.326 | 27.296 |
| 992. | 4.526 | 34.565 | 0.60 | 4.447 | 27.393 |
| 1496. | 3.025 | 34.615 | 0.64 | 2.917 | 27.585 |
| 1997. | 2.321 | 34.650 | 0.75 | 2.180 | 27.677 |
| 2496. | 1.941 | 34.668 | 0.87 | 1.762 | 27.724 |
| 2995. | 1.802 | 34.676 | 0.93 | 1.598 | 27.743 |
| 2999. | 1.712 | 34.680 | 0.99 | 1.491 | 27.754 |
| 3397. | 1.534 | 34.691 | 1.08 | 1.277 | 27.778 |
| 3794. | 1.447 | 34.699 | 1.16 | 1.151 | 27.793 |

* Calculated from CTD values

CAST EP1-87-RS -025 LAT 00 00.2S LONG 129 58.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 15. | 28.135 | 35.227 | 1.43 | 28.131 | 22.525 |
| 197. | 13.082 | 34.927 | 0.78 | 13.055 | 26.326 |
| 297. | 12.096 | 34.869 | 0.23 | 12.057 | 26.477 |
| 565. | 7.456 | 34.628 | 0.35 | 7.400 | 27.070 |
| 796. | 5.668 | 34.567 | 0.50 | 5.599 | 27.261 |
| 992. | 4.543 | 34.571 | 0.58 | 4.464 | 27.396 |

CAST EP1-87-RS -026 LAT 00 00.7N LONG 135 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 14. | 28.320 | 35.242 | 1.50 | 28.317 | 22.475 |
| 196. | 13.315 | 34.974 | 0.86 | 13.288 | 26.315 |
| 296. | 11.950 | 34.856 | 0.22 | 11.911 | 26.495 |
| 596. | 7.231 | 34.598 | 0.43 | 7.173 | 27.078 |
| 798. | 5.566 | 34.568 | 0.53 | 5.497 | 27.274 |
| 976. | 4.766 | 34.564 | 0.58 | 4.687 | 27.365 |

CAST EP1-87-RS -027 LAT 00 02.4S LONG 139 59.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 15. | 28.483 | 35.206* | 1.44 | 28.479* | 22.394* |
| 125. | 19.535 | 35.237 | 0.93 | 19.512 | 25.072 |
| 199. | 13.129 | 34.971 | 0.75 | 13.102 | 26.351 |

* Calculated from CTD values

CAST EP1-87-RS -028 LAT 00 02.8N LONG 139 54.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 796. | 5.393 | 34.568 | 0.56 | 5.325 | 27.295 |
| 1004. | 4.391 | 34.571 | 0.62 | 4.312 | 27.412 |

CAST EP1-87-RS -029 LAT 00 54.7N LONG 139 59.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 15. | 28.268 | 35.156 | 1.41 | 28.265 | 22.427 |
| 34. | 28.254 | 35.152 | 1.43 | 28.246 | 22.431 |
| 598. | 6.962 | 34.597 | 0.41 | 6.905 | 27.115 |
| 796. | 5.604 | 34.558 | 0.51 | 5.535 | 27.261 |
| 1021. | 4.468 | 34.556* | 0.60 | 4.387* | 27.392* |

CAST EP1-87-RS -030 LAT 01 59.0N LONG 139 58.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 14. | 28.397 | 34.579 | 1.58 | 28.394 | 21.951 |
| 121. | 13.403 | 34.828* | 0.51 | 13.386* | 26.182* |
| 190. | 12.112 | 34.844* | 0.24 | 12.087* | 26.452* |

CAST EP1-87-RS -031 LAT 02 01.6N LONG 140 00.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|--------------|-------------|--------------|---------------|----------|---------|
| 294. | 11.063 | 34.770* | 0.37 | 11.027* | 26.592* |
| 596. | 5.516 | 35.591* | 0.49 | 5.465* | 28.088* |
| 796. | 5.677 | 34.569 | 0.53 | 5.608 | 27.261 |
| 1001. | 4.636 | 34.553* | 0.56 | 4.555* | 27.371* |
| 1495. | 3.025 | 34.603* | 0.63 | 2.917* | 27.576* |
| 1995. | 2.343 | 34.649 | 0.73 | 2.202 | 27.674 |
| 2495. | 1.827 | 34.671 | 0.88 | 1.650 | 27.735 |
| 2990. | 1.673 | 34.678 | 0.97 | 1.453 | 27.755 |
| 3497. | 1.457 | 34.691 | 1.13 | 1.192 | 27.784 |
| 3998. | 1.419 | 34.698 | 1.20 | 1.102 | 27.796 |
| 4252. | 1.411 | 34.700 | 1.23 | 1.067 | 27.800 |

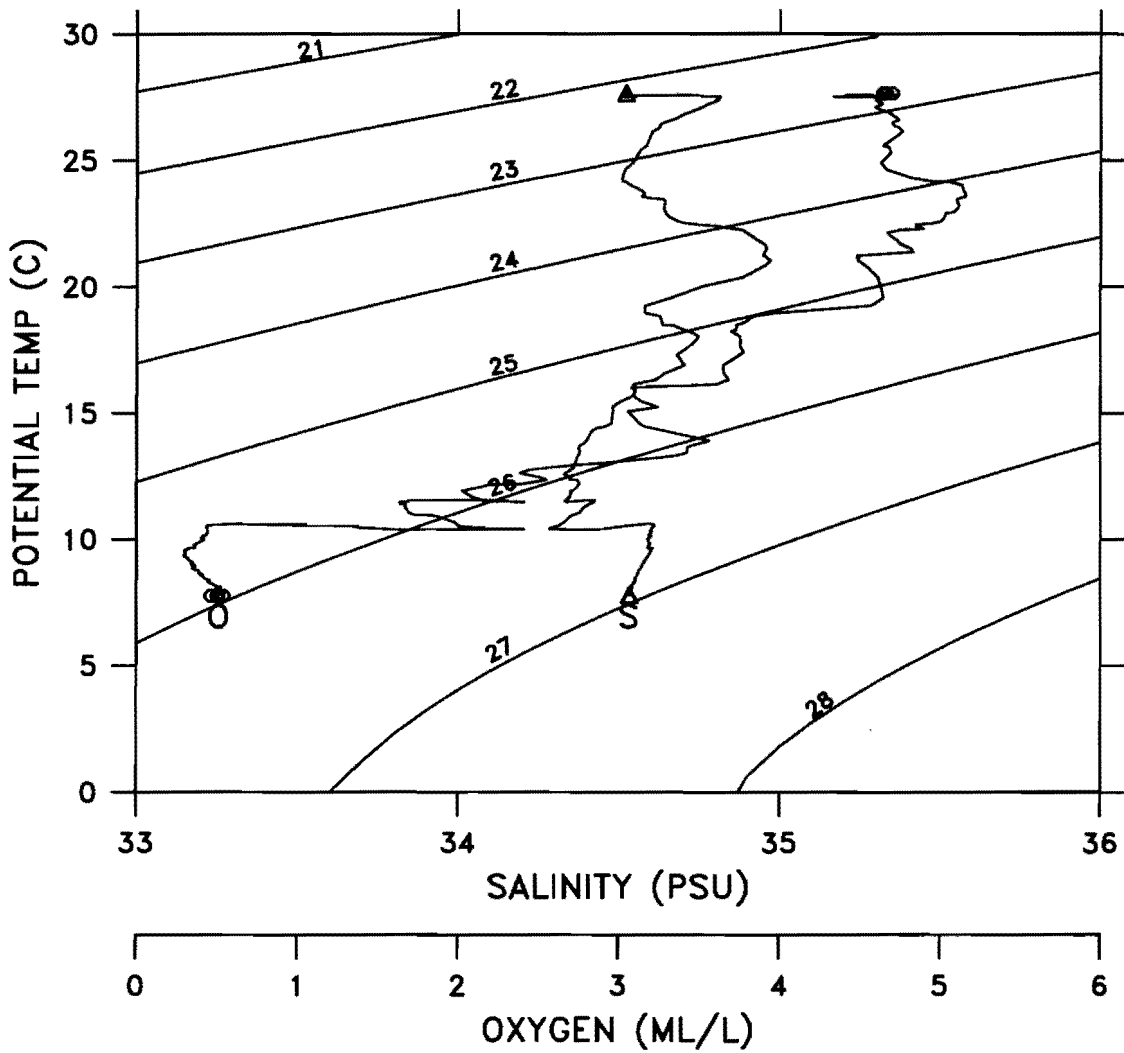
* Calculated from CTD values

EP2-87-OC

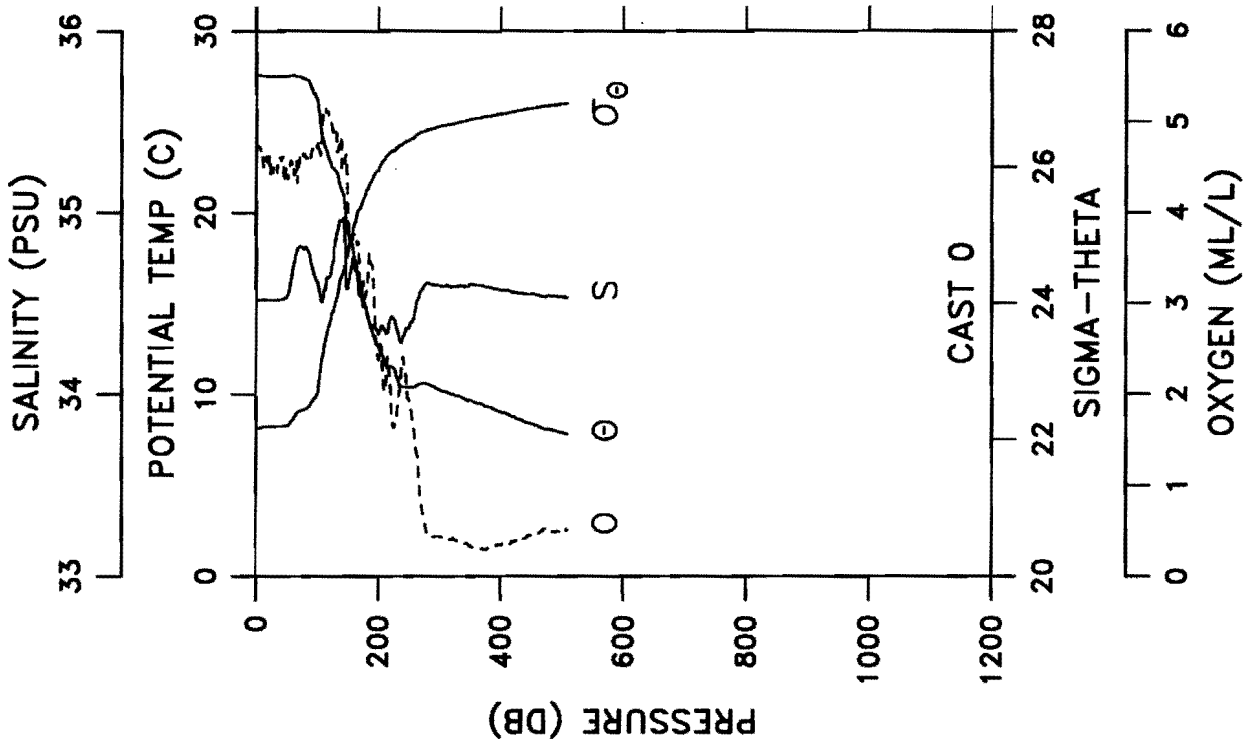
October 6–November 4, 1987

CTD/O₂ and Hydrographic Data Summary

CAST EP2-87-OC -000 DATE 08 OCT 87 TIME 2315 GMT
LAT 14 22.4N LONG 151 19.1W

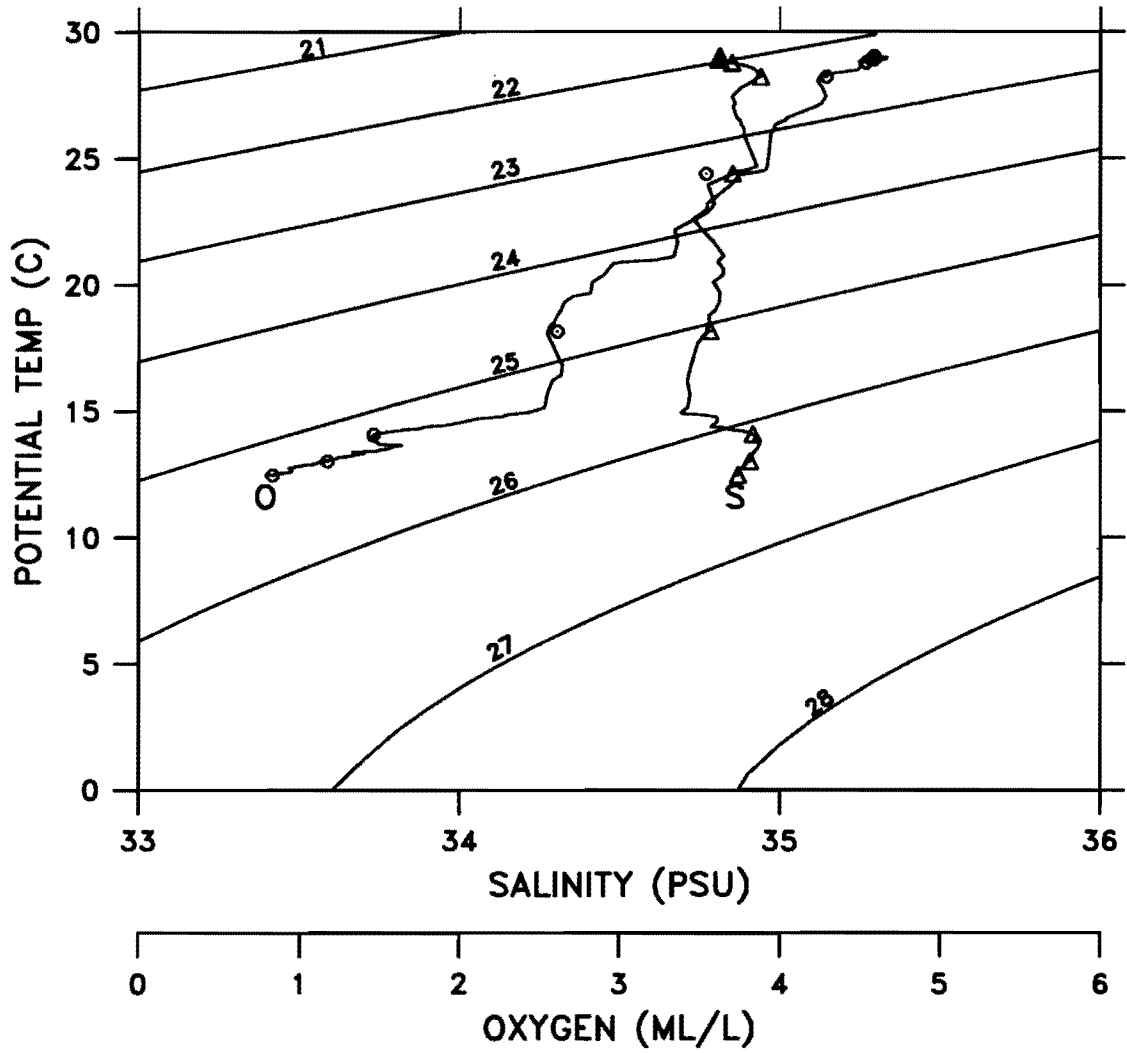


CAST EP2-87-0C -000 DATE 08 OCT 87 TIME 2315 GMT
 LAT 14 22.4N LONG 151 19.1W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 065 T SPD 12 KT VISIBILITY 9
 CLOUD 6 AMOUNT 2 DRY 25.3 WET 23.4 DEPTH 5469 M

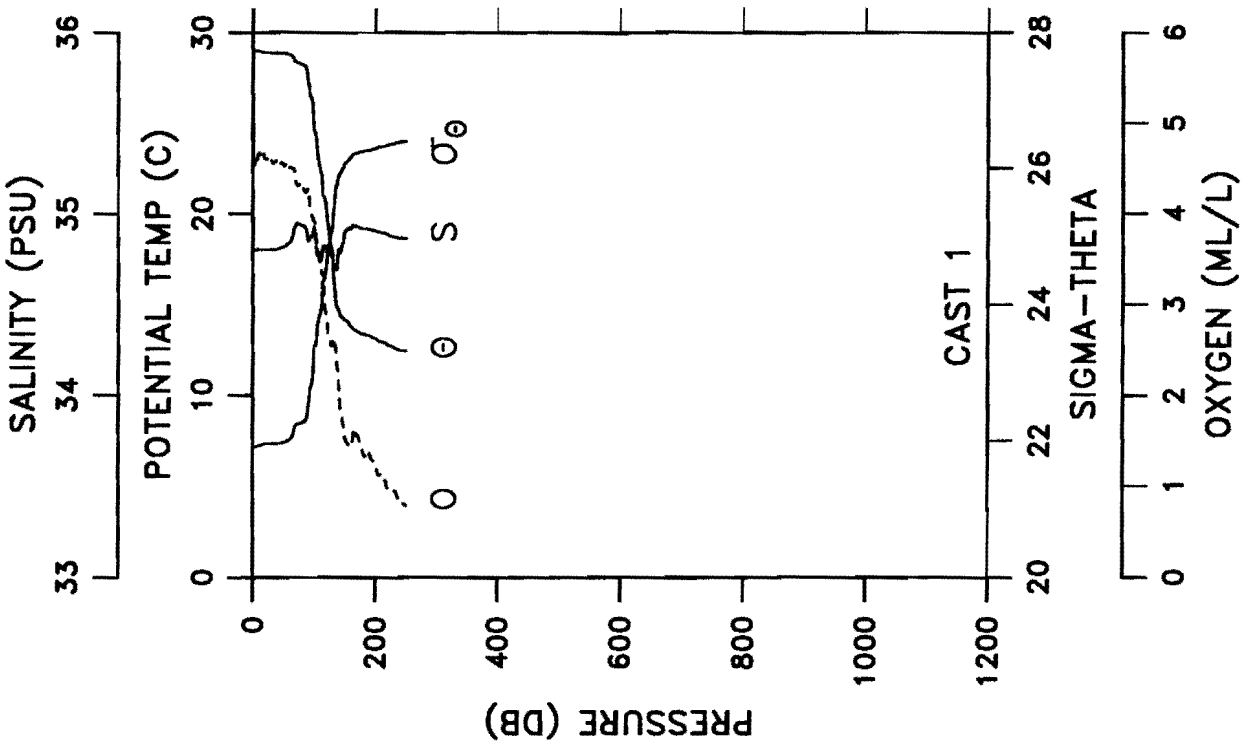


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.589 | 34.516 | 4.74 | 22.166 | 0.000 |
| 10 | 27.545 | 34.519 | 4.61 | 22.183 | 0.057 |
| 20 | 27.514 | 34.517 | 4.61 | 22.192 | 0.113 |
| 30 | 27.504 | 34.517 | 4.48 | 22.195 | 0.169 |
| 40 | 27.501 | 34.520 | 4.59 | 22.197 | 0.226 |
| 50 | 27.510 | 34.536 | 4.44 | 22.207 | 0.282 |
| 60 | 27.576 | 34.688 | 4.56 | 22.300 | 0.338 |
| 70 | 27.503 | 34.812 | 4.54 | 22.417 | 0.393 |
| 80 | 27.385 | 34.806 | 4.63 | 22.451 | 0.447 |
| 90 | 26.898 | 34.721 | 4.67 | 22.542 | 0.501 |
| 100 | 26.226 | 34.619 | 4.75 | 22.677 | 0.554 |
| 110 | 24.009 | 34.534 | 5.14 | 23.287 | 0.603 |
| 120 | 22.890 | 34.645 | 5.03 | 23.698 | 0.647 |
| 130 | 22.292 | 34.854 | 4.89 | 24.026 | 0.688 |
| 140 | 21.218 | 34.949 | 4.48 | 24.397 | 0.725 |
| 150 | 18.960 | 34.579 | 3.96 | 24.711 | 0.760 |
| 160 | 17.648 | 34.718 | 3.75 | 25.143 | 0.790 |
| 170 | 15.986 | 34.549 | 3.07 | 25.402 | 0.818 |
| 180 | 14.591 | 34.476 | 3.12 | 25.658 | 0.843 |
| 190 | 13.428 | 34.378 | 3.42 | 25.825 | 0.866 |
| 200 | 12.623 | 34.335 | 2.38 | 25.953 | 0.887 |
| 250 | 10.377 | 34.365 | 1.94 | 26.392 | 0.979 |
| 300 | 10.243 | 34.598 | 0.43 | 26.597 | 1.058 |
| 350 | 9.660 | 34.602 | 0.34 | 26.699 | 1.131 |
| 400 | 9.004 | 34.572 | 0.34 | 26.783 | 1.199 |
| 450 | 8.380 | 34.551 | 0.45 | 26.864 | 1.265 |
| 500 | 7.887 | 34.534 | 0.50 | 26.925 | 1.326 |
| 509 | 7.802 | 34.532 | 0.51 | 26.936 | 1.337 |

CAST EP2-87-OC -001 DATE 11 OCT 87 TIME 2207 GMT
LAT 02 01.1N LONG 140 02.5W



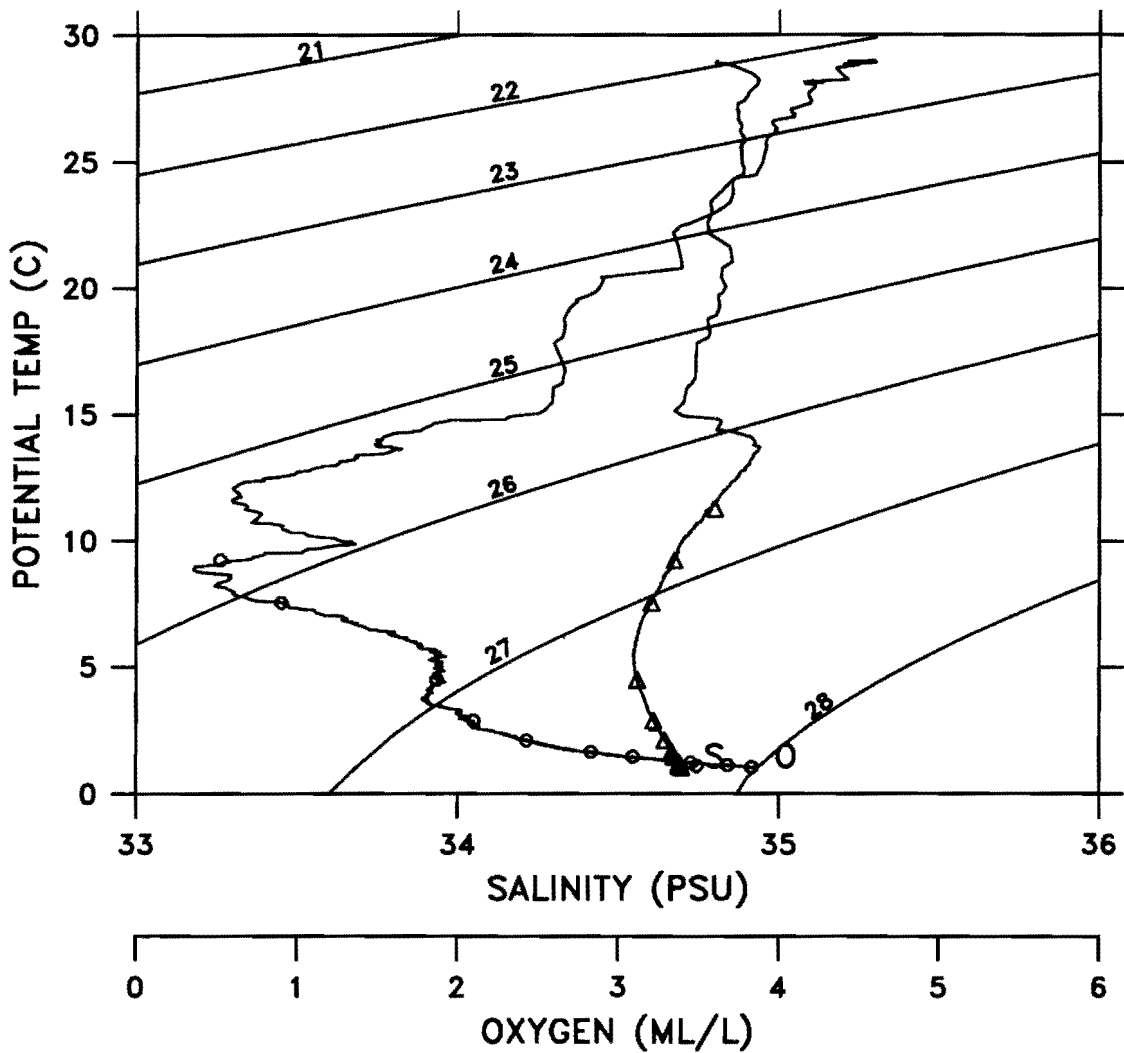
CAST EP2-87-OC -001 DATE 11 OCT 87 TIME 2207 GMT
 LAT 02 01.1N LONG 140 02.5W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 130 T SPD 14 KT VISIBILITY 8
 CLOUD 1 AMOUNT 3 DRY 29.2 WET 26.6 DEPTH 4475 M



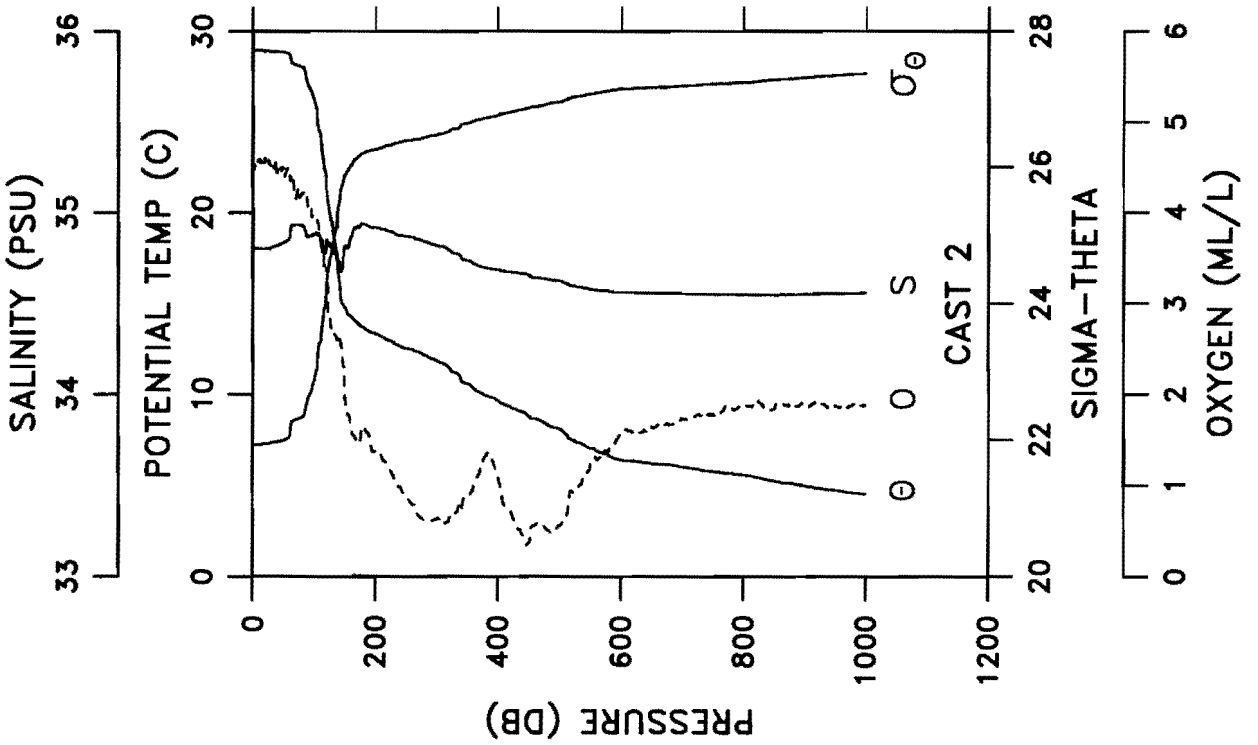
| PRES (DB) | POT TEMP (C) | SAL (FSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 29.020 | 34.799 | 4.57 | 21.909 | 0.000 |
| 10 | 28.983 | 34.804 | 4.66 | 21.925 | 0.059 |
| 20 | 28.894 | 34.803 | 4.61 | 21.954 | 0.118 |
| 30 | 28.885 | 34.804 | 4.61 | 21.957 | 0.176 |
| 40 | 28.879 | 34.806 | 4.59 | 21.962 | 0.235 |
| 50 | 28.861 | 34.819 | 4.55 | 21.977 | 0.294 |
| 60 | 28.798 | 34.842 | 4.51 | 22.015 | 0.352 |
| 70 | 28.378 | 34.934 | 4.36 | 22.223 | 0.410 |
| 80 | 28.255 | 34.937 | 4.26 | 22.266 | 0.466 |
| 90 | 27.443 | 34.850 | 4.29 | 22.465 | 0.521 |
| 100 | 24.676 | 34.927 | 3.92 | 23.386 | 0.572 |
| 110 | 22.515 | 34.735 | 3.44 | 23.873 | 0.615 |
| 120 | 20.118 | 34.791 | 2.83 | 24.573 | 0.652 |
| 130 | 17.675 | 34.743 | 2.58 | 25.155 | 0.683 |
| 140 | 14.706 | 34.807 | 2.11 | 25.888 | 0.707 |
| 150 | 14.171 | 34.898 | 1.53 | 26.073 | 0.727 |
| 160 | 13.812 | 34.916 | 1.46 | 26.162 | 0.747 |
| 170 | 13.562 | 34.931 | 1.56 | 26.225 | 0.765 |
| 180 | 13.382 | 34.918 | 1.35 | 26.253 | 0.784 |
| 190 | 13.296 | 34.915 | 1.36 | 26.267 | 0.802 |
| 200 | 13.147 | 34.906 | 1.23 | 26.281 | 0.819 |
| 250 | 12.468 | 34.865 | 0.79 | 26.394 | 0.906 |
| 251 | 12.465 | 34.865 | 0.78 | 26.395 | 0.907 |

CAST EP2-87-OC -002 DATE 12 OCT 87 TIME 0353 GMT

LAT 02 00.2N LONG 140 04.1W



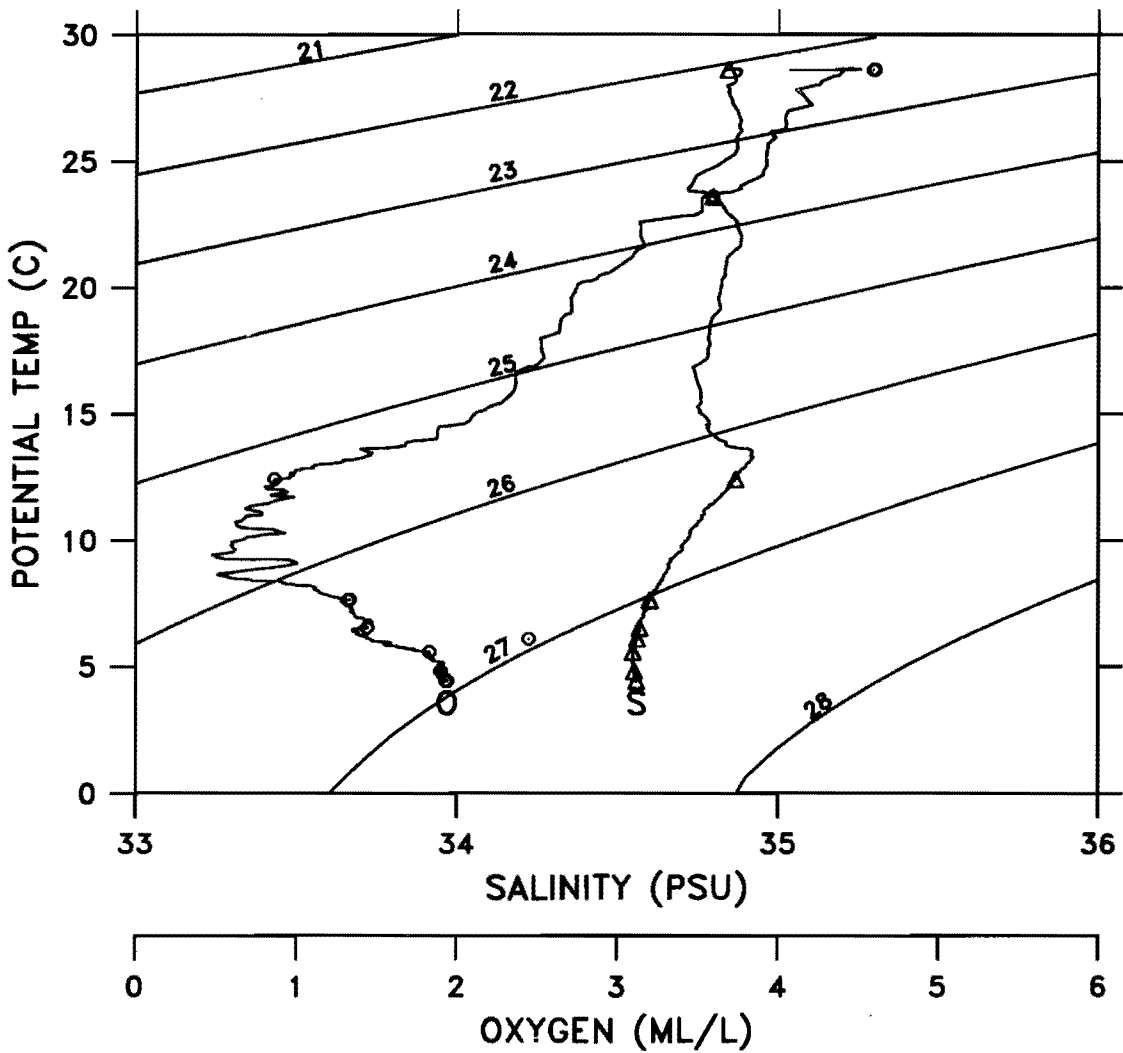
CAST EP2-87-0C-002 DATE 12 OCT 87 TIME 0353 GMT
 LAT 02 00.2N LONG 140 04.1W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 140 T SPD 20 KT VISIBILITY 9
 CLOUD 6 AMOUNT 5 DRY 28.0 WET 26.0 DEPTH 4352 M



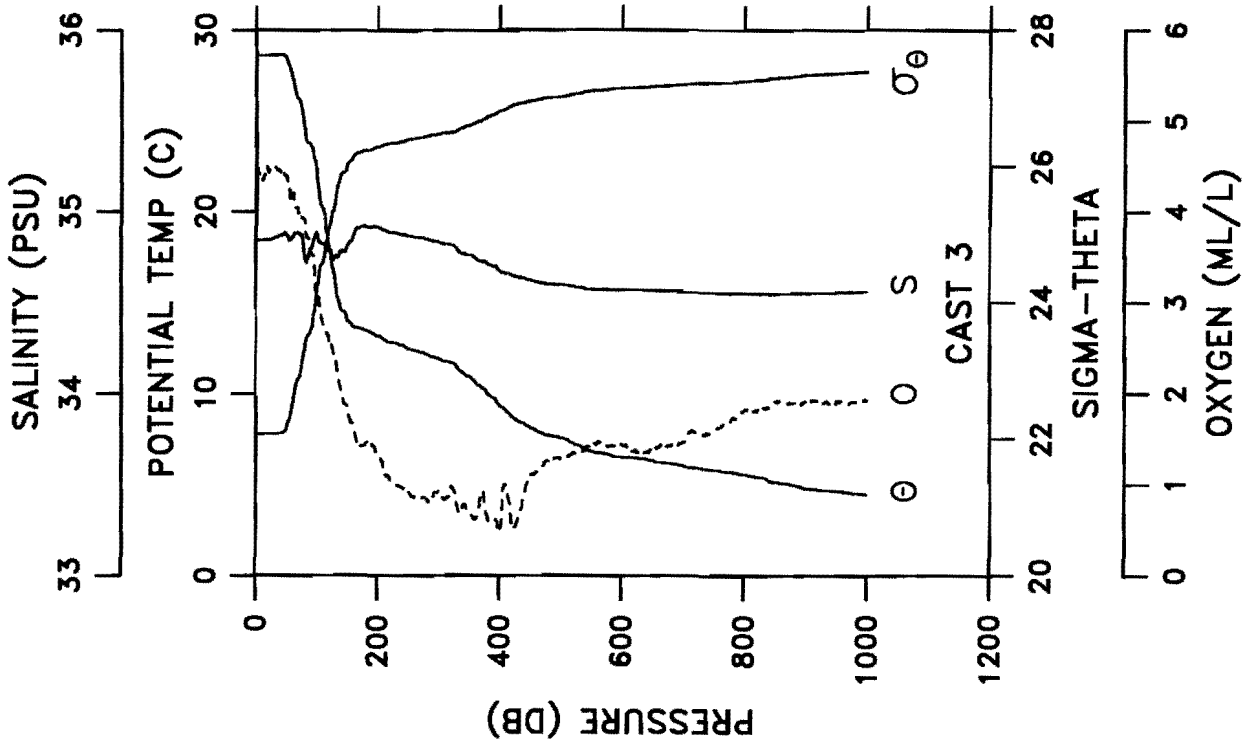
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.964 | 34.801 | 4.43 | 21.929 | 0.000 |
| 10 | 28.975 | 34.804 | 4.57 | 21.928 | 0.059 |
| 20 | 28.928 | 34.804 | 4.60 | 21.943 | 0.118 |
| 30 | 28.890 | 34.808 | 4.52 | 21.959 | 0.176 |
| 40 | 28.882 | 34.818 | 4.44 | 21.969 | 0.235 |
| 50 | 28.857 | 34.834 | 4.49 | 21.990 | 0.294 |
| 60 | 28.765 | 34.860 | 4.42 | 22.039 | 0.352 |
| 70 | 28.160 | 34.933 | 4.15 | 22.294 | 0.408 |
| 80 | 28.067 | 34.930 | 4.21 | 22.323 | 0.464 |
| 90 | 27.073 | 34.866 | 4.07 | 22.595 | 0.518 |
| 100 | 26.276 | 34.875 | 3.98 | 22.855 | 0.570 |
| 110 | 24.394 | 34.864 | 3.74 | 23.423 | 0.617 |
| 120 | 21.637 | 34.845 | 3.37 | 24.203 | 0.659 |
| 130 | 19.245 | 34.812 | 2.89 | 24.816 | 0.693 |
| 140 | 16.453 | 34.737 | 2.65 | 25.441 | 0.722 |
| 150 | 14.780 | 34.815 | 1.95 | 25.878 | 0.745 |
| 160 | 14.284 | 34.865 | 1.64 | 26.023 | 0.766 |
| 170 | 14.001 | 34.917 | 1.49 | 26.124 | 0.786 |
| 180 | 13.703 | 34.938 | 1.59 | 26.202 | 0.805 |
| 190 | 13.456 | 34.923 | 1.54 | 26.242 | 0.823 |
| 200 | 13.352 | 34.918 | 1.38 | 26.259 | 0.841 |
| 250 | 12.522 | 34.870 | 0.88 | 26.387 | 0.928 |
| 300 | 11.871 | 34.820 | 0.63 | 26.474 | 1.012 |
| 350 | 10.588 | 34.737 | 0.90 | 26.845 | 1.090 |
| 400 | 9.689 | 34.684 | 1.10 | 26.762 | 1.160 |
| 450 | 8.827 | 34.658 | 0.36 | 26.878 | 1.226 |
| 500 | 8.097 | 34.626 | 0.56 | 26.966 | 1.287 |
| 550 | 7.034 | 34.579 | 1.22 | 27.082 | 1.342 |
| 600 | 6.389 | 34.562 | 1.58 | 27.156 | 1.393 |
| 650 | 6.202 | 34.558 | 1.64 | 27.178 | 1.443 |
| 700 | 6.004 | 34.554 | 1.72 | 27.200 | 1.491 |
| 750 | 5.759 | 34.551 | 1.78 | 27.228 | 1.539 |
| 800 | 5.557 | 34.548 | 1.89 | 27.251 | 1.585 |
| 900 | 4.984 | 34.550 | 1.88 | 27.320 | 1.674 |
| 1000 | 4.520 | 34.558 | 1.89 | 27.379 | 1.756 |
| 1500 | 2.920 | 34.609 | 2.06 | 27.580 | 2.099 |
| 2000 | 2.119 | 34.645 | 2.42 | 27.678 | 2.378 |
| 2500 | 1.661 | 34.668 | 2.81 | 27.732 | 2.621 |
| 3000 | 1.474 | 34.677 | 3.04 | 27.753 | 2.853 |
| 3500 | 1.229 | 34.691 | 3.39 | 27.781 | 3.076 |
| 4000 | 1.105 | 34.697 | 3.73 | 27.795 | 3.290 |
| 4397 | 1.051 | 34.699 | 3.84 | 27.800 | 3.463 |

CAST EP2-87-OC -003 DATE 12 OCT 87 TIME 0913 GMT

LAT 01 30.0N LONG 140 00.5W

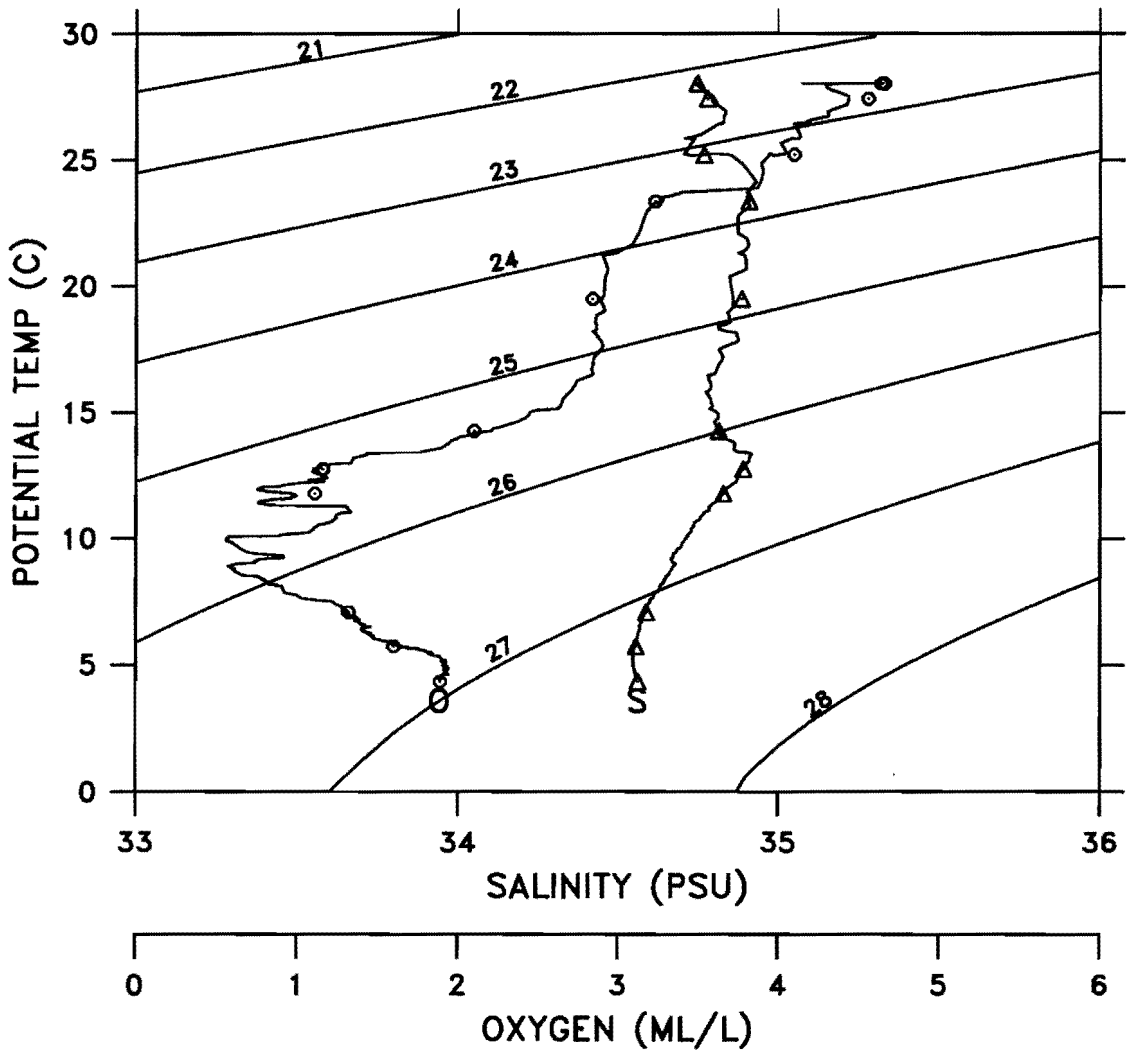


CAST EP2-87-0C -003 DATE 12 OCT 87 TIME 0913 GMT
 LAT 01 30.0N LONG 140 00.5W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 130 T SPD 14 KT VISIBILITY 9
 CLOUD 6 AMOUNT 5 DRY 28.6 WET 26.0 DEPTH 4469 M

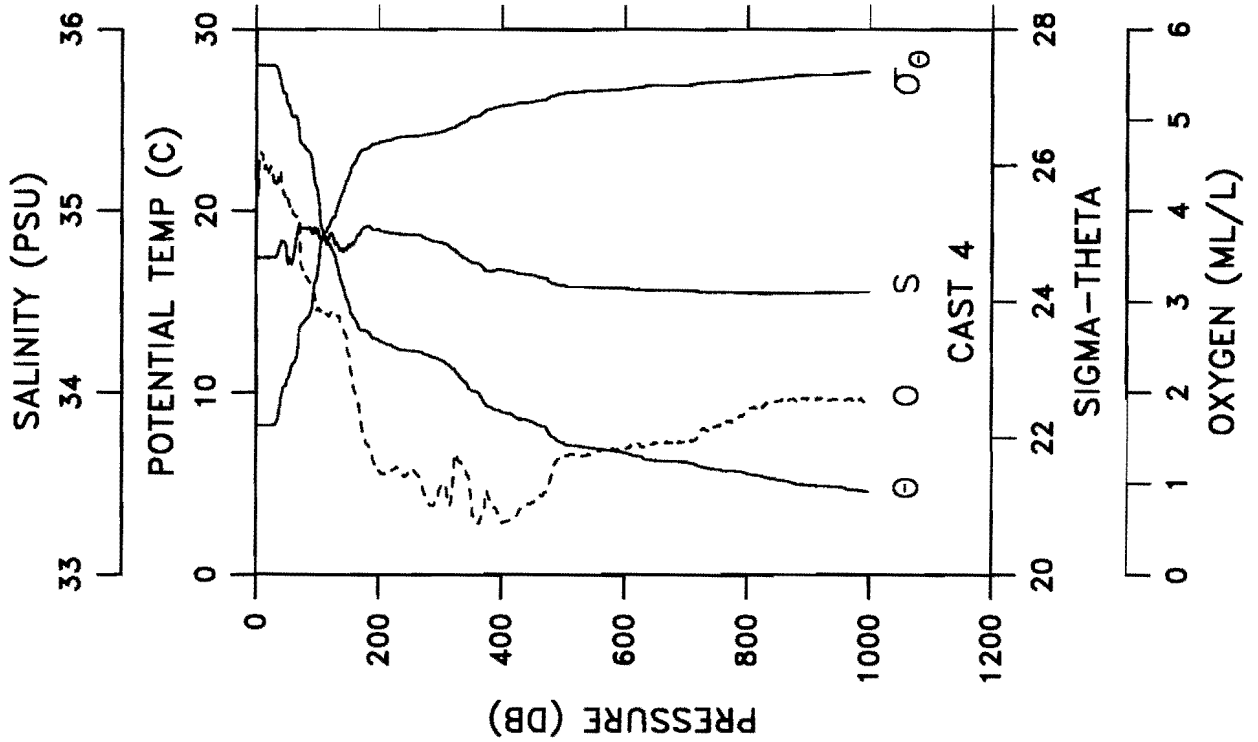


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DTN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.611 | 34.837 | 4.07 | 22.074 | 0.000 |
| 10 | 28.630 | 34.846 | 4.34 | 22.074 | 0.057 |
| 20 | 28.633 | 34.846 | 4.43 | 22.073 | 0.115 |
| 30 | 28.641 | 34.853 | 4.49 | 22.076 | 0.172 |
| 40 | 28.649 | 34.870 | 4.43 | 22.085 | 0.230 |
| 50 | 28.402 | 34.879 | 4.38 | 22.174 | 0.287 |
| 60 | 27.288 | 34.857 | 4.19 | 22.520 | 0.343 |
| 70 | 26.178 | 34.884 | 3.95 | 22.892 | 0.394 |
| 80 | 24.443 | 34.745 | 3.90 | 23.318 | 0.442 |
| 90 | 23.922 | 34.793 | 3.55 | 23.588 | 0.486 |
| 100 | 21.651 | 34.862 | 3.17 | 24.227 | 0.527 |
| 110 | 20.133 | 34.824 | 2.75 | 24.594 | 0.562 |
| 120 | 18.113 | 34.783 | 2.58 | 25.079 | 0.593 |
| 130 | 16.240 | 34.748 | 2.37 | 25.500 | 0.620 |
| 140 | 14.587 | 34.784 | 2.03 | 25.896 | 0.643 |
| 150 | 14.011 | 34.813 | 1.87 | 26.041 | 0.664 |
| 160 | 13.667 | 34.867 | 1.80 | 26.155 | 0.684 |
| 170 | 13.588 | 34.911 | 1.40 | 26.205 | 0.703 |
| 180 | 13.481 | 34.920 | 1.45 | 26.234 | 0.721 |
| 190 | 13.367 | 34.913 | 1.46 | 26.252 | 0.739 |
| 200 | 13.180 | 34.915 | 1.34 | 26.281 | 0.757 |
| 250 | 12.440 | 34.865 | 0.93 | 26.400 | 0.844 |
| 300 | 11.910 | 34.832 | 0.94 | 26.477 | 0.927 |
| 350 | 10.948 | 34.761 | 0.68 | 26.599 | 1.006 |
| 400 | 9.318 | 34.672 | 0.51 | 26.810 | 1.077 |
| 450 | 8.123 | 34.624 | 1.12 | 26.961 | 1.138 |
| 500 | 7.558 | 34.597 | 1.29 | 27.022 | 1.195 |
| 550 | 6.823 | 34.572 | 1.46 | 27.106 | 1.249 |
| 600 | 6.510 | 34.568 | 1.43 | 27.145 | 1.300 |
| 650 | 6.317 | 34.566 | 1.37 | 27.169 | 1.350 |
| 700 | 6.053 | 34.560 | 1.46 | 27.198 | 1.399 |
| 750 | 5.816 | 34.554 | 1.59 | 27.224 | 1.446 |
| 800 | 5.554 | 34.548 | 1.82 | 27.251 | 1.493 |
| 900 | 4.802 | 34.551 | 1.91 | 27.342 | 1.580 |
| 1000 | 4.446 | 34.559 | 1.91 | 27.388 | 1.662 |
| 1011 | 4.421 | 34.559 | 1.94 | 27.391 | 1.670 |

CAST EP2-87-OC -004 DATE 12 OCT 87 TIME 1303 GMT
LAT 00 59.6N LONG 140 00.6W

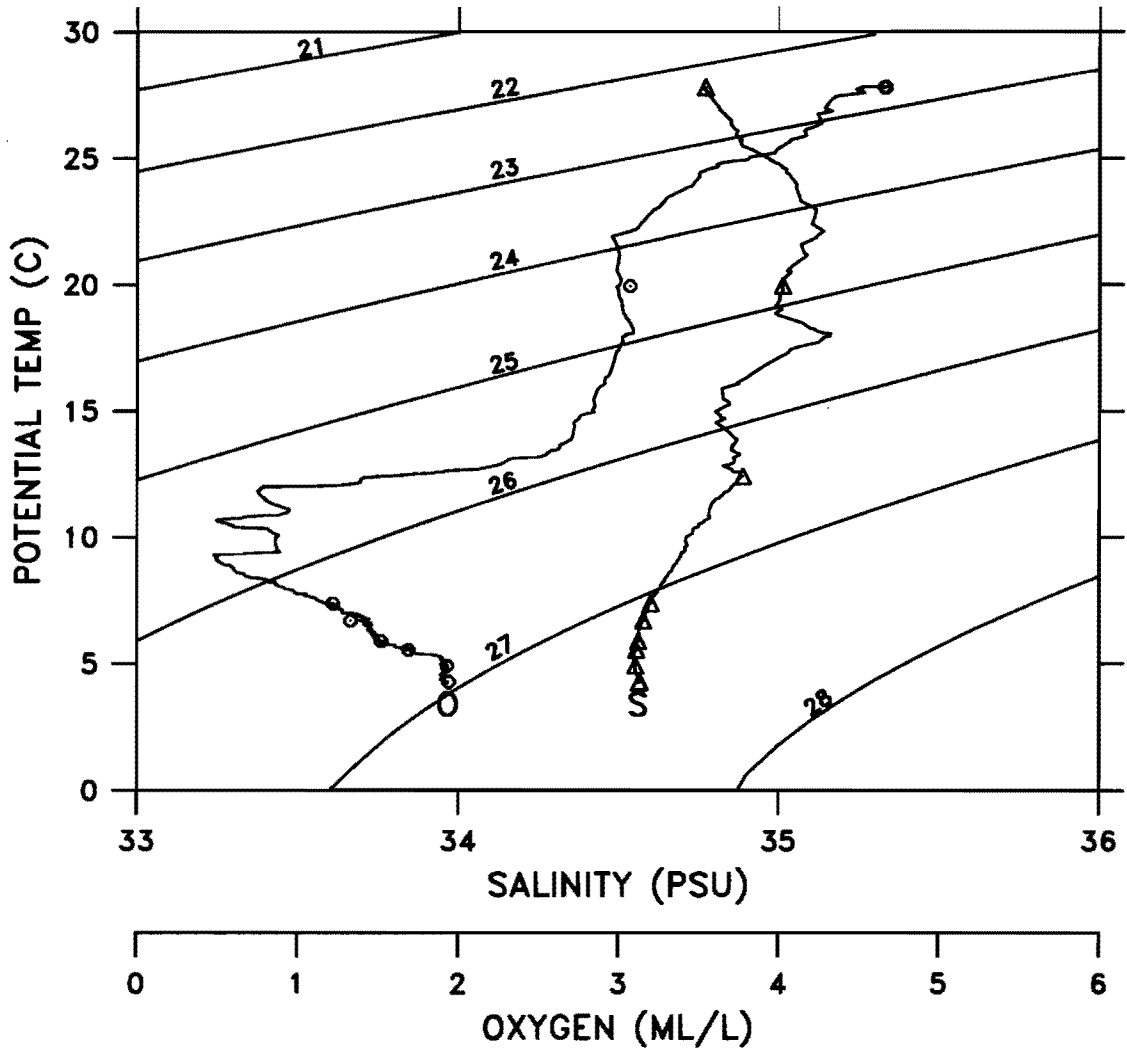


CAST EP2-87-0C -004 DATE 12 OCT 87 TIME 1303 GMT
 LAT 00 59.8N LONG 140 00.6W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 115 T SPD 18 KT VISIBILITY 9
 CLOUD 8 AMOUNT 5 DRY 27.0 WET 25.0 DEPTH 4383 M

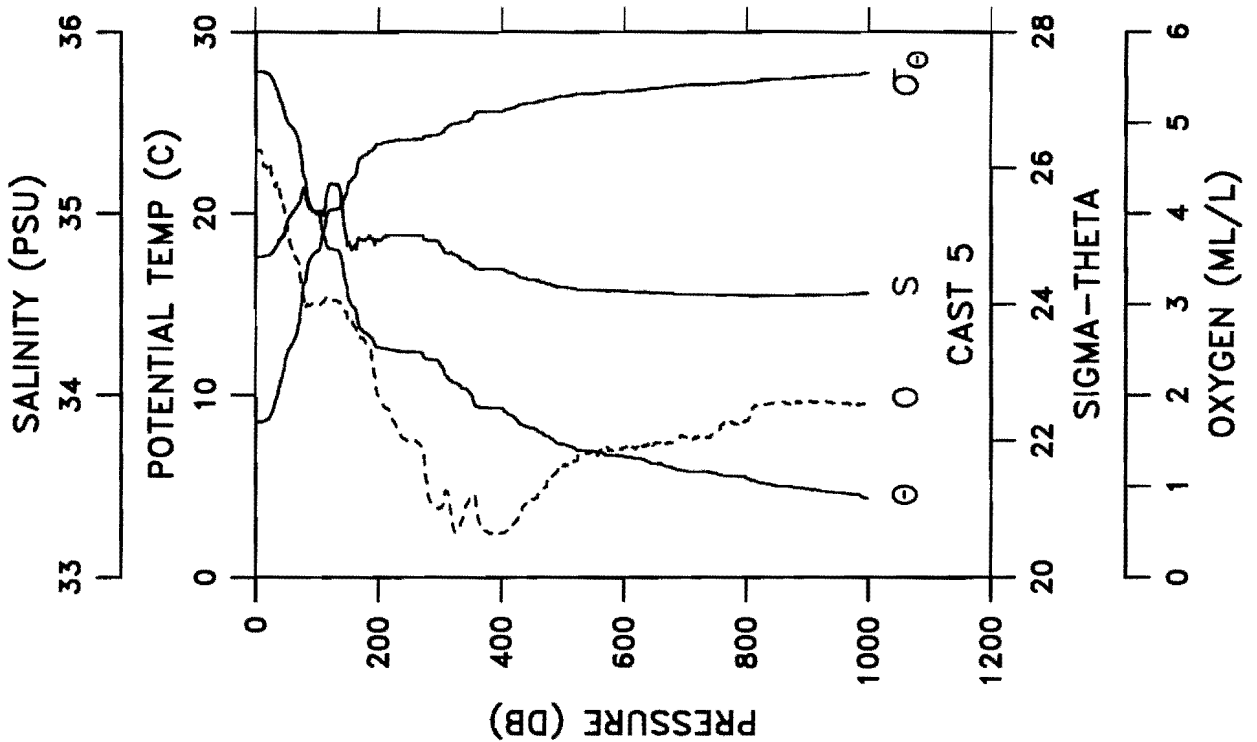


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.041 | 34.736 | 4.46 | 22.185 | 0.000 |
| 10 | 28.042 | 34.742 | 4.61 | 22.189 | 0.056 |
| 20 | 28.041 | 34.742 | 4.40 | 22.189 | 0.113 |
| 30 | 28.023 | 34.743 | 4.33 | 22.196 | 0.169 |
| 40 | 27.202 | 34.806 | 4.43 | 22.509 | 0.224 |
| 50 | 26.013 | 34.759 | 4.13 | 22.849 | 0.276 |
| 60 | 25.171 | 34.730 | 3.97 | 23.087 | 0.325 |
| 70 | 24.151 | 34.930 | 3.89 | 23.545 | 0.372 |
| 80 | 23.495 | 34.904 | 3.27 | 23.719 | 0.415 |
| 90 | 22.970 | 34.890 | 3.18 | 23.860 | 0.456 |
| 100 | 21.069 | 34.898 | 2.91 | 24.399 | 0.494 |
| 110 | 18.758 | 34.847 | 2.86 | 24.967 | 0.526 |
| 120 | 18.167 | 34.869 | 2.86 | 25.131 | 0.556 |
| 130 | 17.234 | 34.826 | 2.86 | 25.326 | 0.583 |
| 140 | 15.977 | 34.789 | 2.72 | 25.592 | 0.609 |
| 150 | 14.997 | 34.808 | 2.44 | 25.826 | 0.632 |
| 160 | 14.057 | 34.828 | 2.02 | 26.043 | 0.653 |
| 170 | 13.433 | 34.879 | 1.76 | 26.212 | 0.672 |
| 180 | 13.385 | 34.912 | 1.44 | 26.247 | 0.691 |
| 190 | 12.980 | 34.895 | 1.27 | 26.316 | 0.709 |
| 200 | 12.868 | 34.899 | 1.14 | 26.341 | 0.726 |
| 250 | 12.283 | 34.870 | 1.15 | 26.434 | 0.810 |
| 300 | 11.803 | 34.825 | 0.95 | 26.491 | 0.892 |
| 350 | 10.118 | 34.720 | 0.88 | 26.713 | 0.968 |
| 400 | 8.939 | 34.675 | 0.59 | 26.874 | 1.035 |
| 450 | 8.399 | 34.647 | 0.79 | 26.936 | 1.096 |
| 500 | 7.259 | 34.589 | 1.28 | 27.059 | 1.153 |
| 550 | 6.930 | 34.579 | 1.34 | 27.097 | 1.205 |
| 600 | 6.701 | 34.572 | 1.38 | 27.123 | 1.257 |
| 650 | 6.271 | 34.563 | 1.44 | 27.173 | 1.308 |
| 700 | 6.167 | 34.561 | 1.47 | 27.185 | 1.357 |
| 750 | 5.769 | 34.554 | 1.63 | 27.229 | 1.404 |
| 800 | 5.550 | 34.548 | 1.80 | 27.252 | 1.451 |
| 900 | 4.922 | 34.549 | 1.94 | 27.326 | 1.539 |
| 1000 | 4.543 | 34.556 | 1.90 | 27.375 | 1.622 |
| 1008 | 4.437 | 34.559 | 1.88 | 27.389 | 1.628 |

CAST EP2-87-OC -005 DATE 12 OCT 87 TIME 1715 GMT
LAT 00 29.6N LONG 140 00.7W

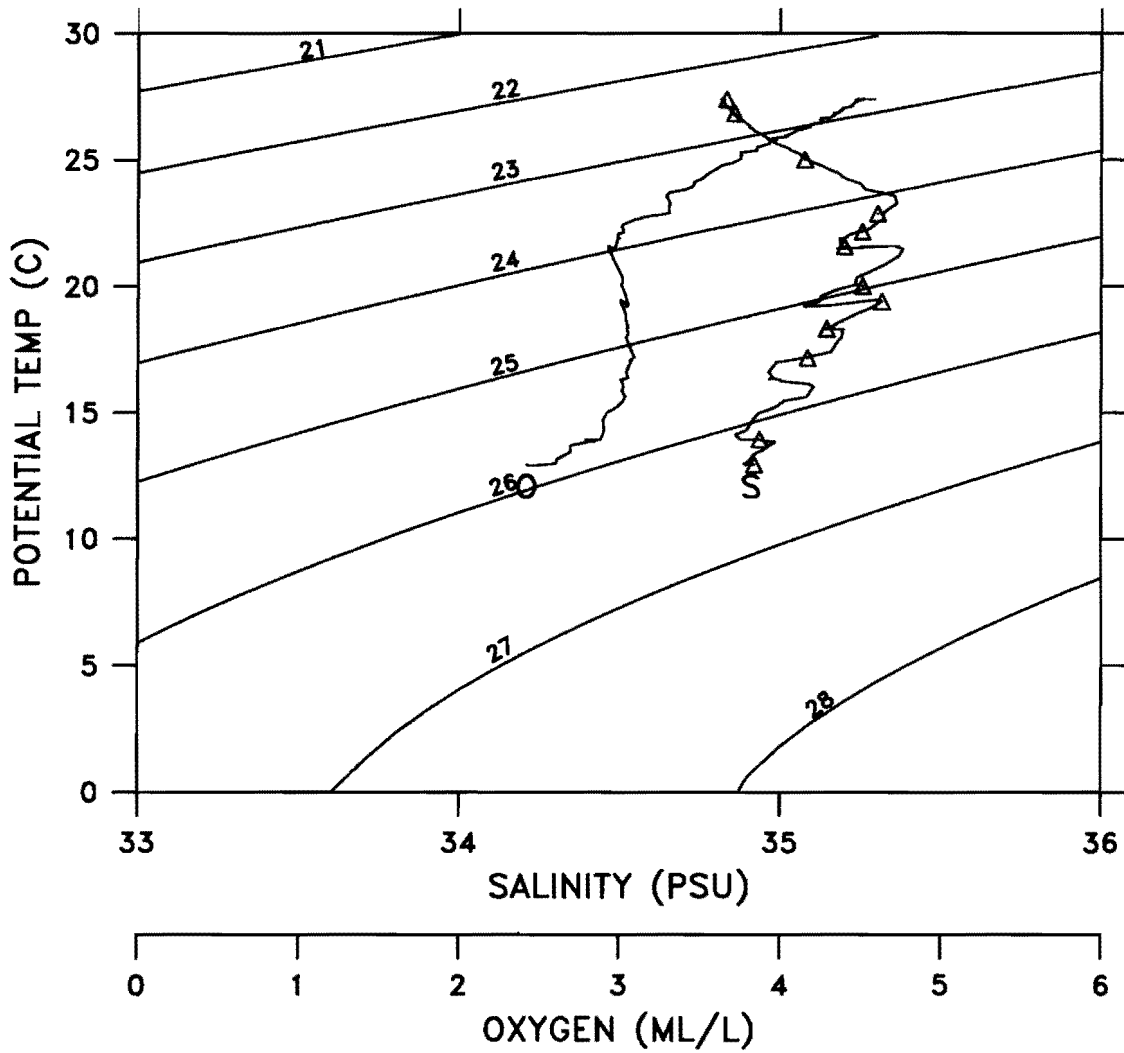


CAST EP2-87-OC -005 DATE 12 OCT 87 TIME 1715 GMT
 LAT 00 29.6N LONG 140 00.7W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 140 T SPD 22 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 27.5 WET 24.6 DEPTH 4352 M

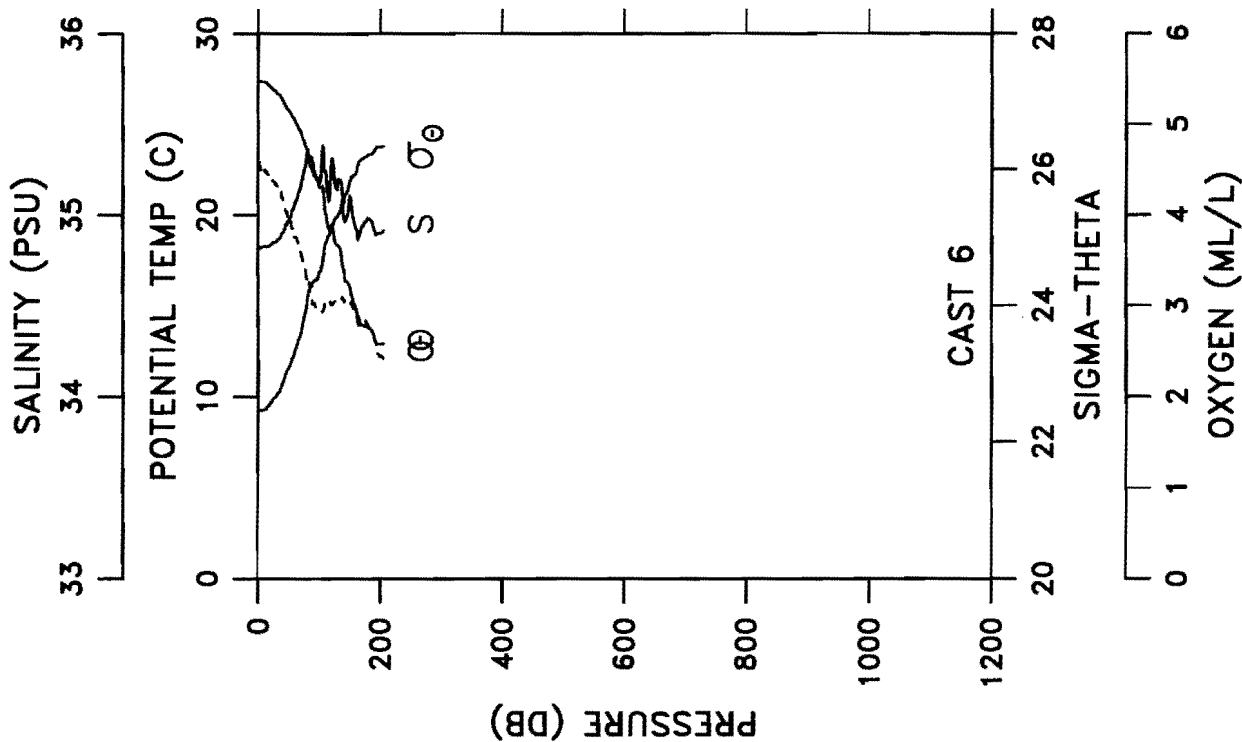


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.814 | 34.762 | 4.70 | 22.279 | 0.000 |
| 10 | 27.819 | 34.763 | 4.63 | 22.277 | 0.055 |
| 20 | 27.724 | 34.767 | 4.48 | 22.312 | 0.111 |
| 30 | 27.215 | 34.799 | 4.32 | 22.500 | 0.165 |
| 40 | 26.186 | 34.859 | 4.20 | 22.871 | 0.217 |
| 50 | 25.198 | 34.936 | 3.97 | 23.234 | 0.266 |
| 60 | 24.731 | 35.006 | 3.62 | 23.429 | 0.311 |
| 70 | 23.896 | 35.057 | 3.45 | 23.717 | 0.355 |
| 80 | 21.911 | 35.119 | 2.96 | 24.334 | 0.393 |
| 90 | 20.378 | 35.028 | 3.00 | 24.684 | 0.428 |
| 100 | 19.974 | 35.009 | 3.00 | 24.777 | 0.460 |
| 110 | 18.866 | 34.989 | 3.03 | 25.048 | 0.491 |
| 120 | 18.063 | 35.157 | 3.08 | 25.378 | 0.519 |
| 130 | 18.004 | 35.156 | 3.05 | 25.391 | 0.545 |
| 140 | 17.443 | 35.038 | 3.00 | 25.438 | 0.571 |
| 150 | 15.469 | 34.826 | 2.84 | 25.735 | 0.596 |
| 160 | 14.842 | 34.817 | 2.77 | 25.866 | 0.618 |
| 170 | 13.691 | 34.860 | 2.65 | 26.144 | 0.638 |
| 180 | 13.427 | 34.859 | 2.58 | 26.198 | 0.657 |
| 190 | 13.114 | 34.862 | 2.33 | 26.263 | 0.675 |
| 200 | 12.650 | 34.853 | 1.98 | 26.349 | 0.693 |
| 250 | 12.411 | 34.881 | 1.50 | 26.418 | 0.777 |
| 300 | 11.793 | 34.831 | 0.75 | 26.498 | 0.859 |
| 350 | 10.058 | 34.716 | 0.88 | 26.721 | 0.933 |
| 400 | 9.273 | 34.694 | 0.49 | 26.835 | 0.998 |
| 450 | 8.215 | 34.637 | 0.85 | 26.957 | 1.059 |
| 500 | 7.313 | 34.583 | 1.21 | 27.055 | 1.115 |
| 550 | 6.936 | 34.580 | 1.38 | 27.097 | 1.168 |
| 600 | 6.653 | 34.571 | 1.43 | 27.128 | 1.220 |
| 650 | 6.253 | 34.563 | 1.46 | 27.175 | 1.270 |
| 700 | 5.846 | 34.557 | 1.54 | 27.222 | 1.318 |
| 750 | 5.727 | 34.554 | 1.60 | 27.235 | 1.364 |
| 800 | 5.461 | 34.549 | 1.71 | 27.263 | 1.410 |
| 900 | 4.854 | 34.550 | 1.91 | 27.336 | 1.496 |
| 1000 | 4.334 | 34.562 | 1.89 | 27.402 | 1.577 |
| 1036 | 4.253 | 34.561 | 1.93 | 27.410 | 1.605 |

CAST EP2-87-OC -006 DATE 13 OCT 87 TIME 0014 GMT
LAT 00 00.3N LONG 139 58.7W

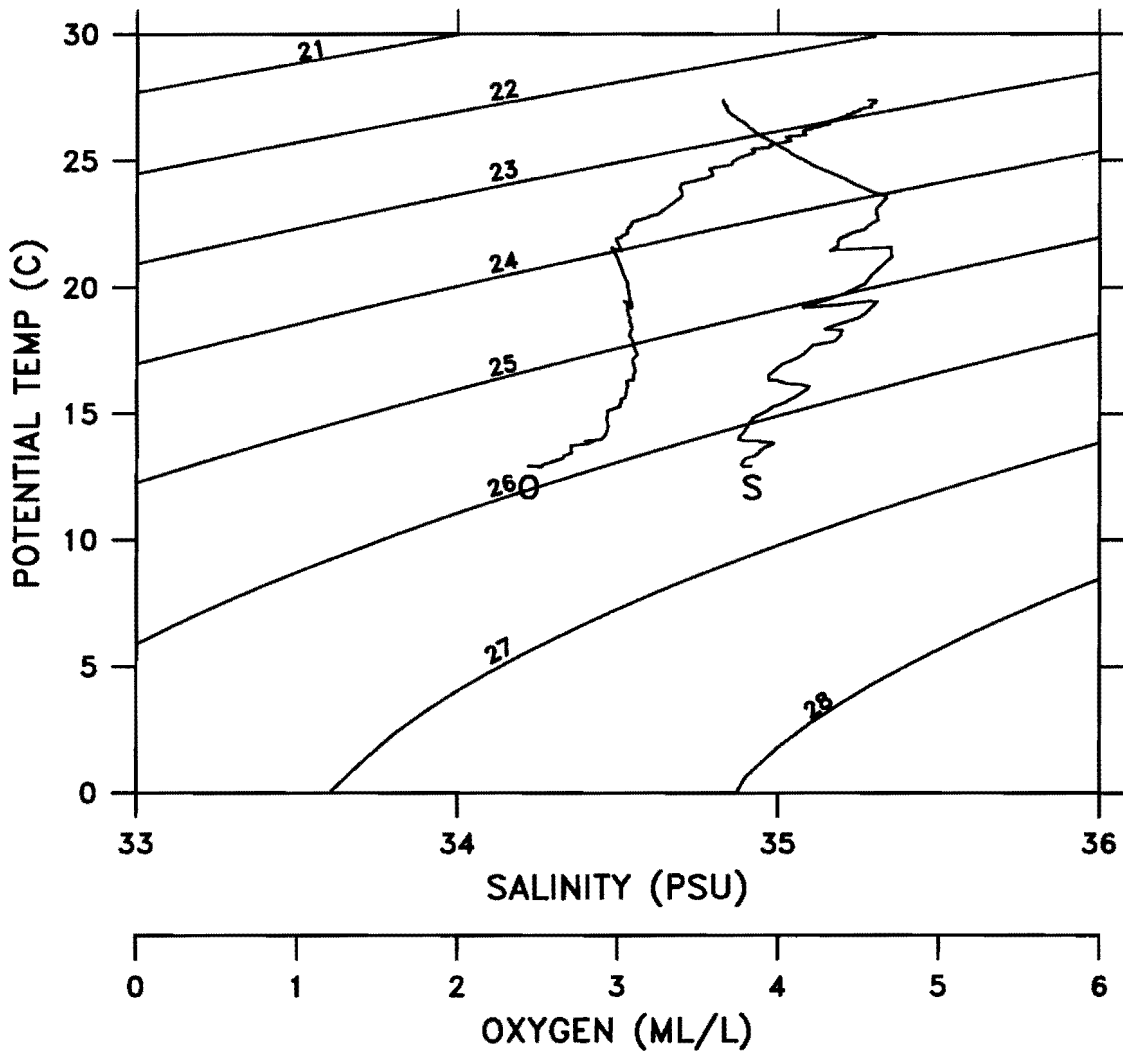


CAST EP2-87-OC -006 DATE 13 OCT 87 TIME 0014 GMT
 LAT 00 00.3N LONG 139 58.7W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 120 T SPD 16 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 28.5 WET 25.8 DEPTH 4383 M

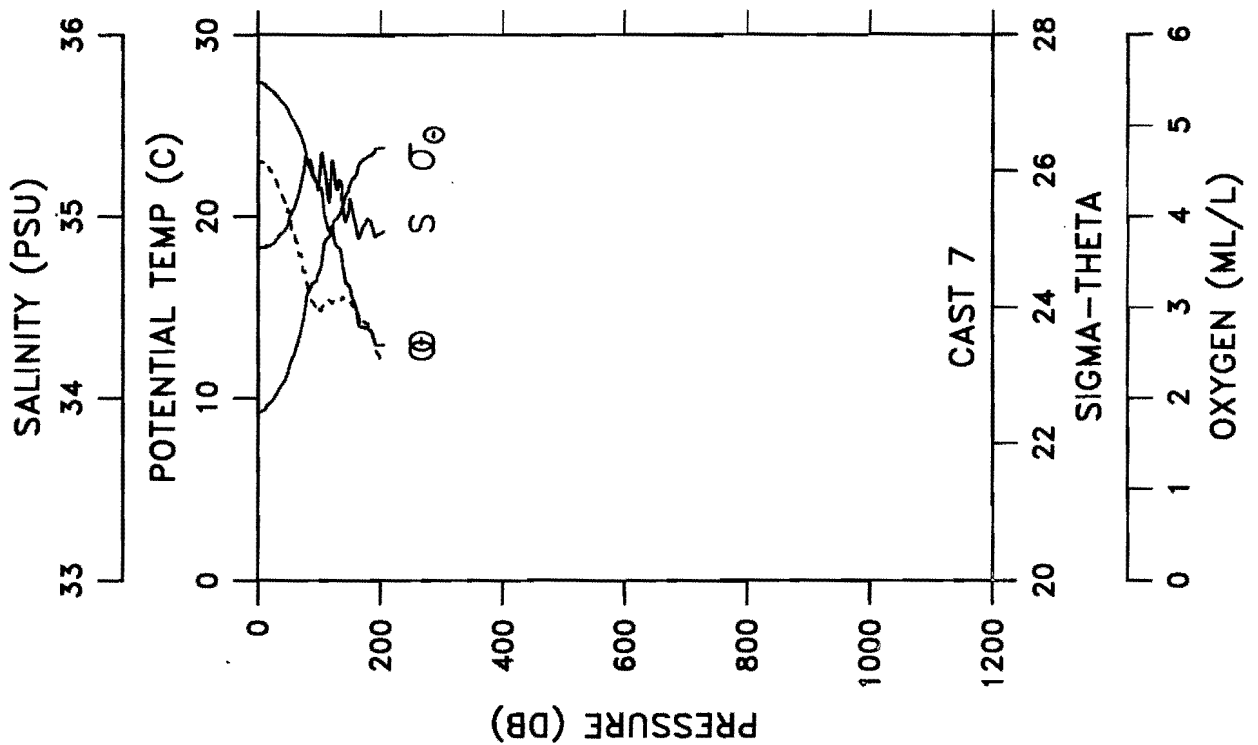


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 27.382 | 34.815 | 4.59 | 22.458 | 0.000 |
| 10 | 27.360 | 34.826 | 4.48 | 22.474 | 0.054 |
| 20 | 27.074 | 34.834 | 4.42 | 22.571 | 0.107 |
| 30 | 26.793 | 34.853 | 4.34 | 22.675 | 0.159 |
| 40 | 26.362 | 34.902 | 4.18 | 22.848 | 0.210 |
| 50 | 25.781 | 34.966 | 3.97 | 23.078 | 0.259 |
| 60 | 25.227 | 35.057 | 3.76 | 23.317 | 0.306 |
| 70 | 24.562 | 35.160 | 3.58 | 23.597 | 0.351 |
| 80 | 23.565 | 35.354 | 3.29 | 24.039 | 0.392 |
| 90 | 22.369 | 35.286 | 3.01 | 24.333 | 0.429 |
| 100 | 21.511 | 35.190 | 2.97 | 24.500 | 0.465 |
| 110 | 20.119 | 35.233 | 3.02 | 24.909 | 0.488 |
| 120 | 19.465 | 35.302 | 3.01 | 25.133 | 0.528 |
| 130 | 18.323 | 35.166 | 3.05 | 25.320 | 0.555 |
| 140 | 17.000 | 34.989 | 3.07 | 25.507 | 0.581 |
| 150 | 16.009 | 35.105 | 3.02 | 25.828 | 0.605 |
| 160 | 14.890 | 34.926 | 2.92 | 25.940 | 0.626 |
| 170 | 13.925 | 34.939 | 2.82 | 26.156 | 0.646 |
| 180 | 13.811 | 34.981 | 2.79 | 26.213 | 0.665 |
| 190 | 13.230 | 34.910 | 2.63 | 26.277 | 0.683 |
| 200 | 12.908 | 34.899 | 2.45 | 26.334 | 0.700 |
| 205 | 12.926 | 34.913 | 2.42 | 26.341 | 0.709 |

CAST EP2-87-OC -007 DATE 13 OCT 87 TIME 0050 GMT
LAT 00 00.5N LONG 139 58.7W

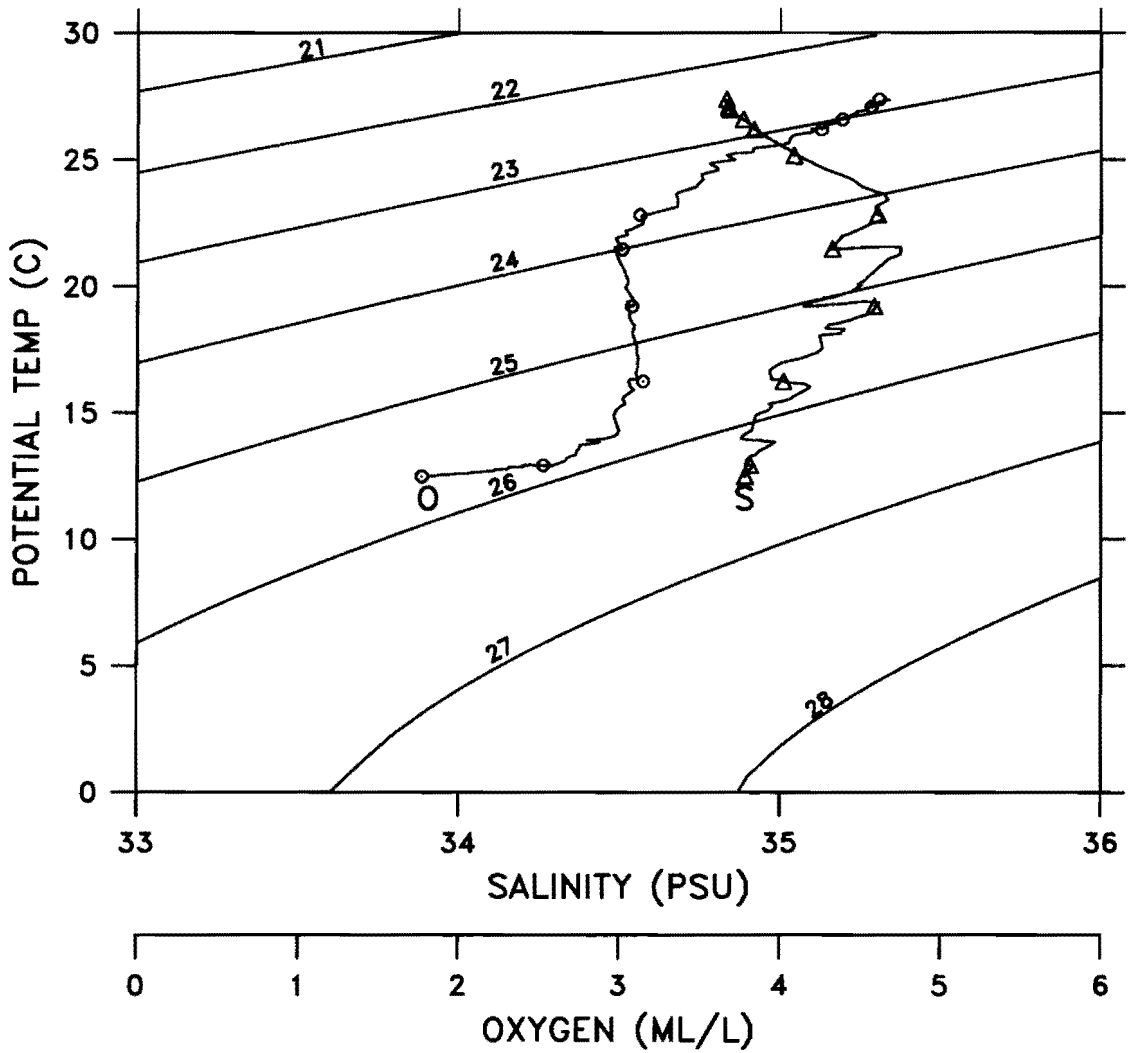


CAST EP2-87-0C -007 DATE 13 OCT 87 TIME 0050 GMT
 LAT 00 00.5N LONG 139 58.7W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 120 T SPD 16 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 28.0 WET 25.8 DEPTH 4383 M

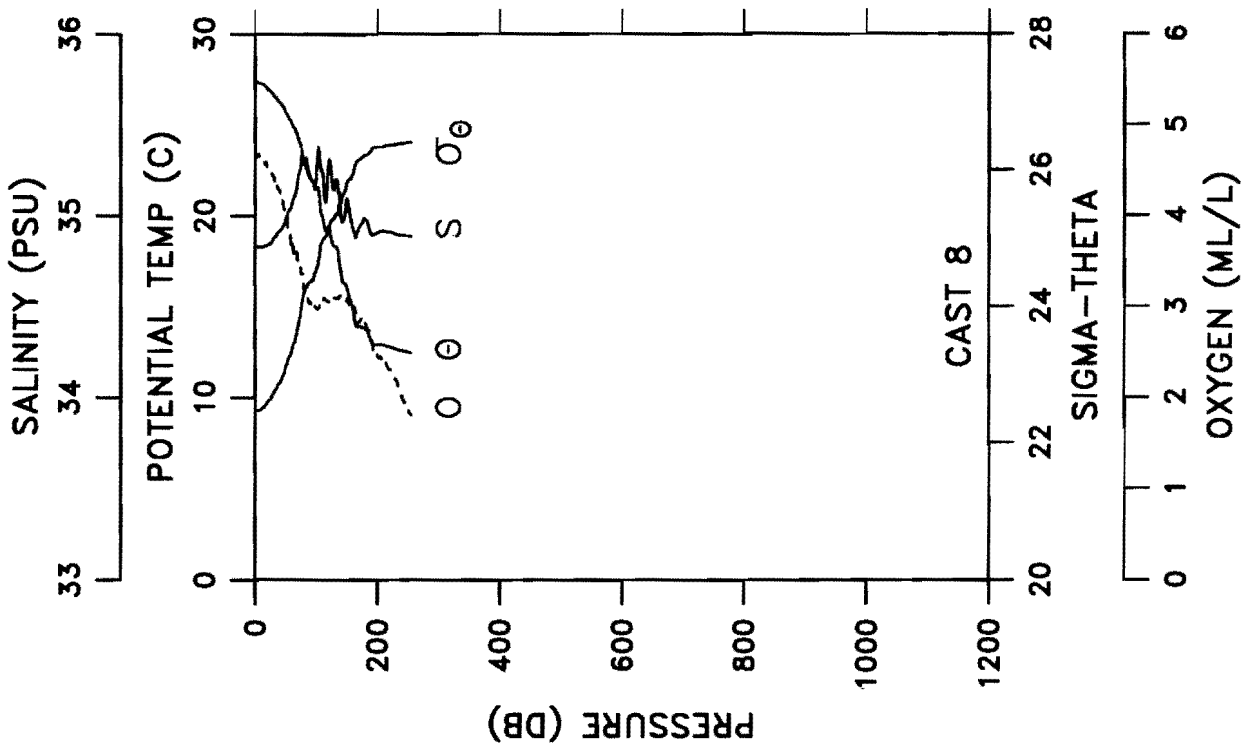


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.392 | 34.827 | 4.56 | 22.464 | 0.000 |
| 10 | 27.296 | 34.830 | 4.60 | 22.497 | 0.054 |
| 20 | 26.988 | 34.842 | 4.50 | 22.605 | 0.107 |
| 30 | 26.671 | 34.871 | 4.38 | 22.727 | 0.158 |
| 40 | 26.291 | 34.909 | 4.22 | 22.875 | 0.209 |
| 50 | 25.771 | 34.975 | 4.08 | 23.088 | 0.258 |
| 60 | 25.169 | 35.053 | 3.79 | 23.331 | 0.305 |
| 70 | 24.424 | 35.176 | 3.59 | 23.650 | 0.349 |
| 80 | 22.941 | 35.306 | 3.27 | 24.184 | 0.389 |
| 90 | 22.136 | 35.227 | 3.06 | 24.354 | 0.426 |
| 100 | 21.498 | 35.211 | 2.99 | 24.519 | 0.462 |
| 110 | 19.913 | 35.232 | 3.06 | 24.963 | 0.494 |
| 120 | 19.450 | 35.286 | 3.04 | 25.125 | 0.524 |
| 130 | 18.317 | 35.148 | 3.08 | 25.308 | 0.551 |
| 140 | 16.951 | 35.012 | 3.10 | 25.536 | 0.577 |
| 150 | 16.077 | 35.094 | 3.06 | 25.804 | 0.601 |
| 160 | 14.971 | 34.943 | 2.94 | 25.935 | 0.623 |
| 170 | 13.917 | 34.928 | 2.79 | 26.150 | 0.642 |
| 180 | 13.801 | 34.981 | 2.81 | 26.215 | 0.661 |
| 190 | 13.218 | 34.897 | 2.65 | 26.270 | 0.679 |
| 200 | 12.913 | 34.905 | 2.44 | 26.337 | 0.697 |
| 206 | 12.925 | 34.915 | 2.44 | 26.343 | 0.707 |

CAST EP2-87-OC -008 DATE 13 OCT 87 TIME 0105 GMT
LAT 00 01.1N LONG 139 56.3W

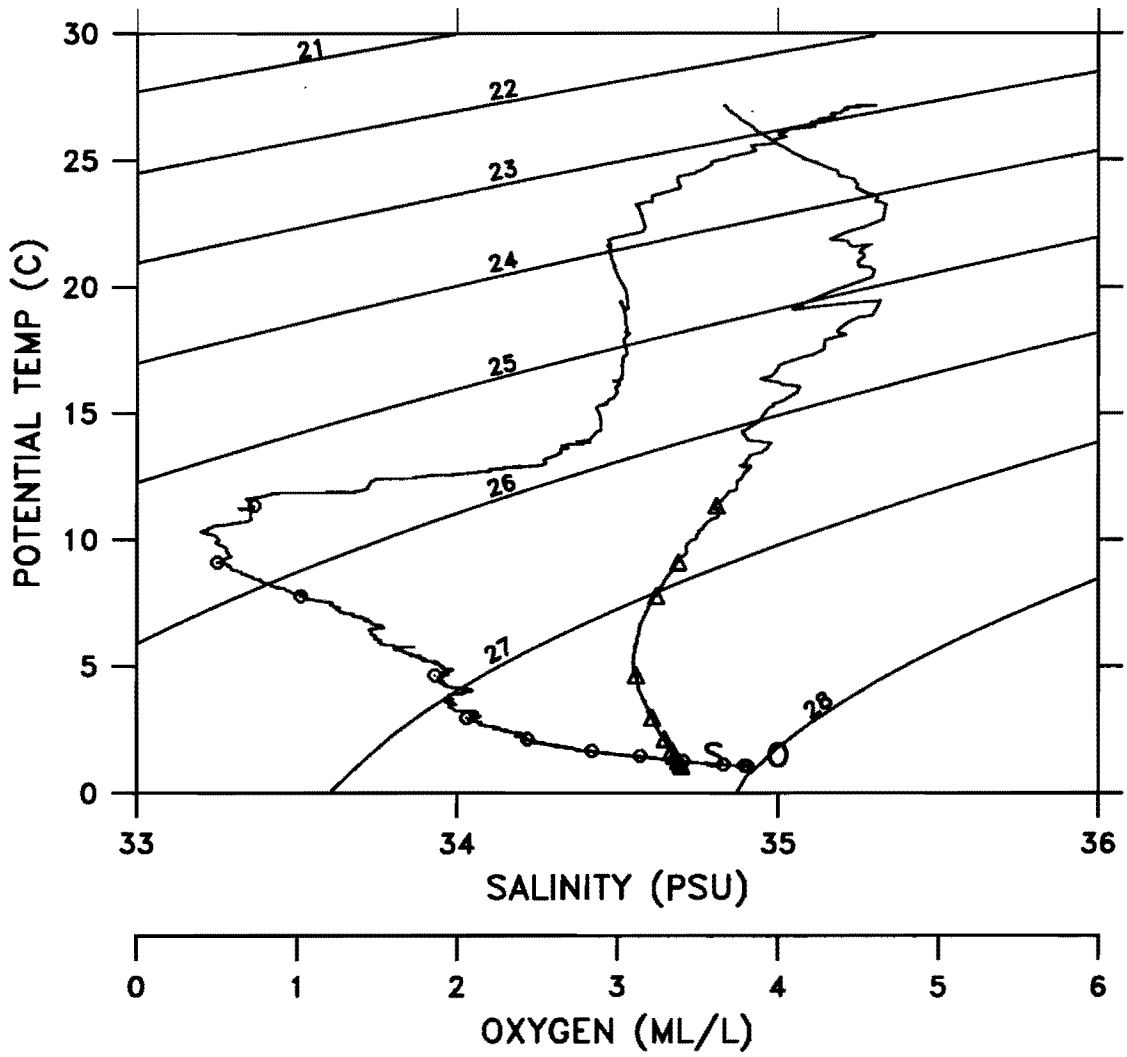


CAST EP2-87-0C -008 DATE 13 OCT 87 TIME 0105 GMT
 LAT 00 01.1N LONG 139 56.3W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 120 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 27.8 WET 26.0 DEPTH 4383 M

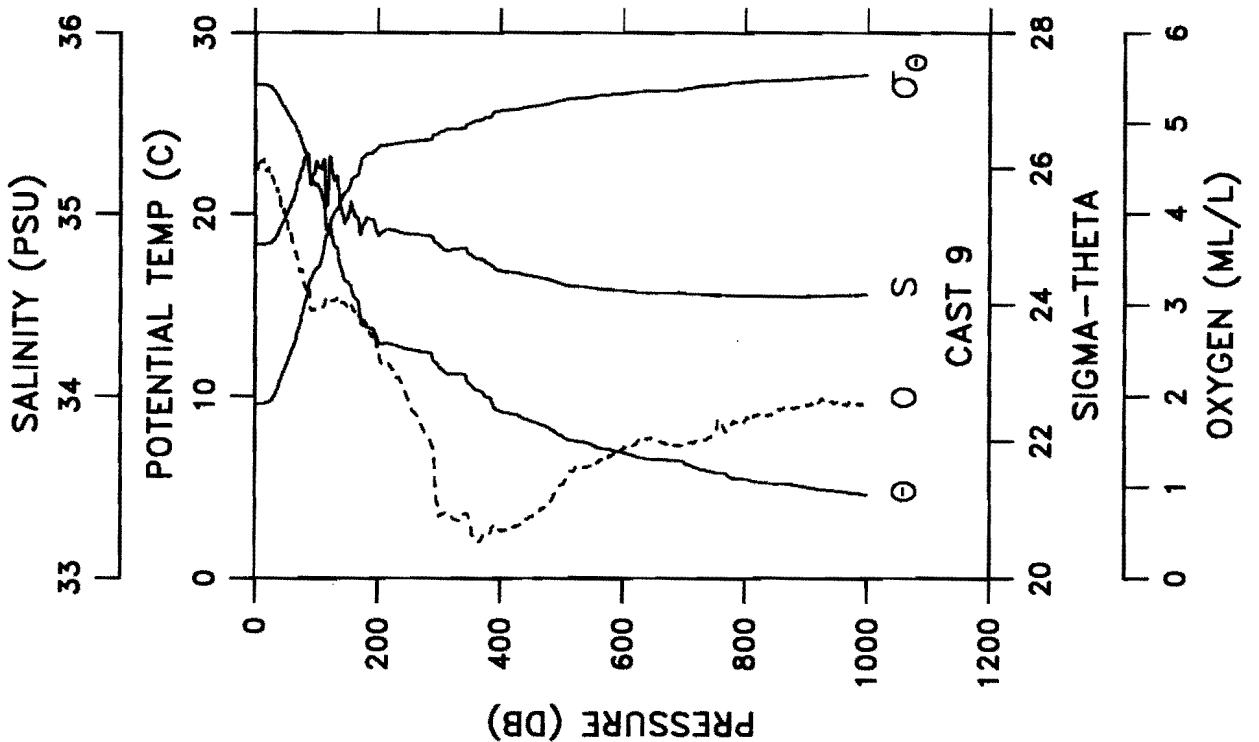


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.366 | 34.830 | 4.68 | 22.474 | 0.000 |
| 10 | 27.288 | 34.830 | 4.63 | 22.499 | 0.054 |
| 20 | 27.012 | 34.841 | 4.54 | 22.596 | 0.107 |
| 30 | 26.651 | 34.877 | 4.43 | 22.738 | 0.159 |
| 40 | 26.268 | 34.914 | 4.28 | 22.886 | 0.209 |
| 50 | 25.659 | 34.989 | 4.05 | 23.133 | 0.258 |
| 60 | 25.088 | 35.066 | 3.69 | 23.366 | 0.304 |
| 70 | 24.321 | 35.204 | 3.51 | 23.702 | 0.348 |
| 80 | 22.830 | 35.304 | 3.17 | 24.215 | 0.388 |
| 90 | 22.042 | 35.211 | 3.05 | 24.368 | 0.425 |
| 100 | 21.493 | 35.214 | 2.98 | 24.523 | 0.460 |
| 110 | 19.947 | 35.242 | 3.04 | 24.961 | 0.492 |
| 120 | 19.382 | 35.285 | 3.05 | 25.142 | 0.522 |
| 130 | 18.316 | 35.156 | 3.09 | 25.314 | 0.549 |
| 140 | 16.976 | 35.006 | 3.11 | 25.525 | 0.575 |
| 150 | 16.021 | 35.084 | 3.07 | 25.816 | 0.599 |
| 160 | 14.890 | 34.923 | 2.97 | 25.938 | 0.621 |
| 170 | 13.916 | 34.935 | 2.83 | 26.155 | 0.640 |
| 180 | 13.794 | 34.978 | 2.84 | 26.214 | 0.659 |
| 190 | 13.089 | 34.895 | 2.67 | 26.294 | 0.677 |
| 200 | 12.914 | 34.906 | 2.46 | 26.338 | 0.695 |
| 250 | 12.510 | 34.891 | 1.88 | 26.406 | 0.780 |
| 255 | 12.470 | 34.887 | 1.81 | 26.411 | 0.788 |

CAST EP2-87-OC -009 DATE 13 OCT 87 TIME 1053 GMT
LAT 00 00.5N LONG 140 01.4W

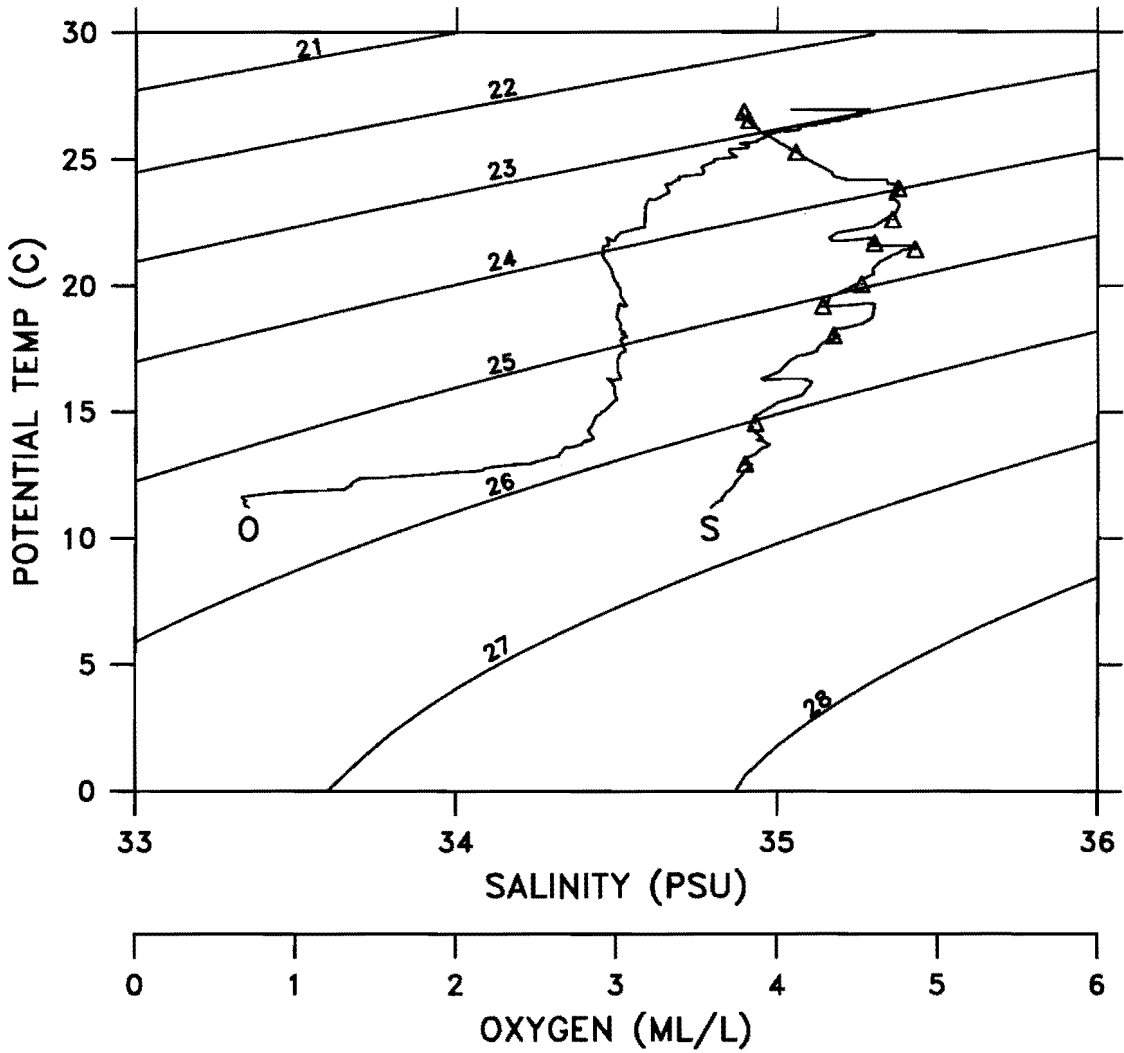


CAST EP2-87-OC -009 DATE 13 OCT 87 TIME 1053 GMT
 LAT 00 00.5N LONG 140 01.4W WEATHER 1 SEA STATE 2
 BAROMETER 10 WIND DIR 125 T SPD 18 KT VISIBILITY 8
 CLOUD 2 AMOUNT 3 DRY 26.5 WET 24.6 DEPTH 4313 M

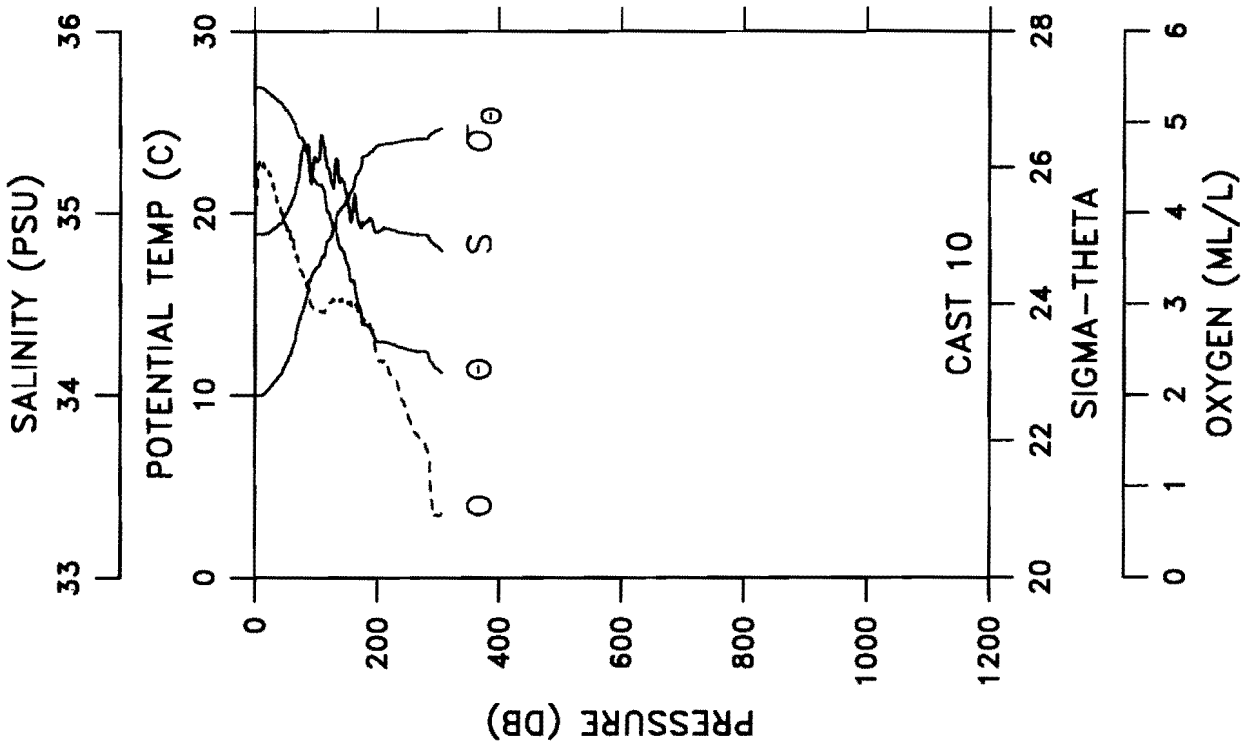


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.140 | 34.834 | 4.51 | 22.550 | 0.000 |
| 10 | 27.136 | 34.834 | 4.59 | 22.551 | 0.053 |
| 20 | 27.077 | 34.838 | 4.50 | 22.573 | 0.106 |
| 30 | 26.844 | 34.857 | 4.39 | 22.662 | 0.158 |
| 40 | 26.298 | 34.920 | 4.23 | 22.882 | 0.209 |
| 50 | 25.742 | 34.985 | 3.96 | 23.104 | 0.258 |
| 60 | 25.135 | 35.068 | 3.71 | 23.353 | 0.305 |
| 70 | 24.521 | 35.166 | 3.49 | 23.628 | 0.349 |
| 80 | 23.576 | 35.308 | 3.21 | 24.001 | 0.390 |
| 90 | 21.908 | 35.166 | 2.96 | 24.372 | 0.428 |
| 100 | 21.664 | 35.290 | 2.94 | 24.534 | 0.463 |
| 110 | 20.804 | 35.250 | 2.98 | 24.739 | 0.487 |
| 120 | 19.368 | 35.233 | 3.02 | 25.106 | 0.527 |
| 130 | 18.211 | 35.184 | 3.05 | 25.362 | 0.555 |
| 140 | 17.035 | 35.031 | 3.03 | 25.531 | 0.581 |
| 150 | 16.263 | 34.976 | 2.97 | 25.669 | 0.605 |
| 160 | 15.531 | 35.022 | 2.95 | 25.871 | 0.628 |
| 170 | 14.676 | 34.942 | 2.89 | 25.999 | 0.649 |
| 180 | 13.847 | 34.957 | 2.80 | 26.186 | 0.668 |
| 190 | 13.716 | 34.971 | 2.66 | 26.225 | 0.687 |
| 200 | 13.017 | 34.902 | 2.55 | 26.314 | 0.705 |
| 250 | 12.571 | 34.891 | 1.96 | 26.395 | 0.791 |
| 300 | 11.804 | 34.827 | 0.88 | 26.530 | 0.874 |
| 350 | 10.676 | 34.778 | 0.63 | 26.662 | 0.950 |
| 400 | 9.163 | 34.690 | 0.52 | 26.850 | 1.019 |
| 450 | 8.628 | 34.660 | 0.67 | 26.911 | 1.081 |
| 500 | 7.796 | 34.618 | 1.03 | 27.005 | 1.141 |
| 550 | 7.307 | 34.594 | 1.25 | 27.056 | 1.196 |
| 600 | 6.895 | 34.579 | 1.41 | 27.102 | 1.249 |
| 650 | 6.516 | 34.567 | 1.51 | 27.144 | 1.301 |
| 700 | 6.362 | 34.566 | 1.46 | 27.163 | 1.351 |
| 750 | 5.791 | 34.556 | 1.61 | 27.229 | 1.399 |
| 800 | 5.420 | 34.550 | 1.72 | 27.269 | 1.445 |
| 900 | 5.001 | 34.549 | 1.91 | 27.317 | 1.533 |
| 1000 | 4.567 | 34.556 | 1.90 | 27.373 | 1.616 |
| 1500 | 2.952 | 34.606 | 2.11 | 27.575 | 1.962 |
| 2000 | 2.097 | 34.645 | 2.43 | 27.680 | 2.239 |
| 2500 | 1.648 | 34.668 | 2.81 | 27.733 | 2.485 |
| 3000 | 1.468 | 34.677 | 3.07 | 27.753 | 2.715 |
| 3500 | 1.274 | 34.686 | 3.36 | 27.775 | 2.941 |
| 4000 | 1.080 | 34.697 | 3.77 | 27.797 | 3.156 |
| 4336 | 1.063 | 34.697 | 3.80 | 27.798 | 3.301 |

CAST EP2-87-OC -010 DATE 14 OCT 87 TIME 0350 GMT
LAT 00 02.1S LONG 139 57.6W

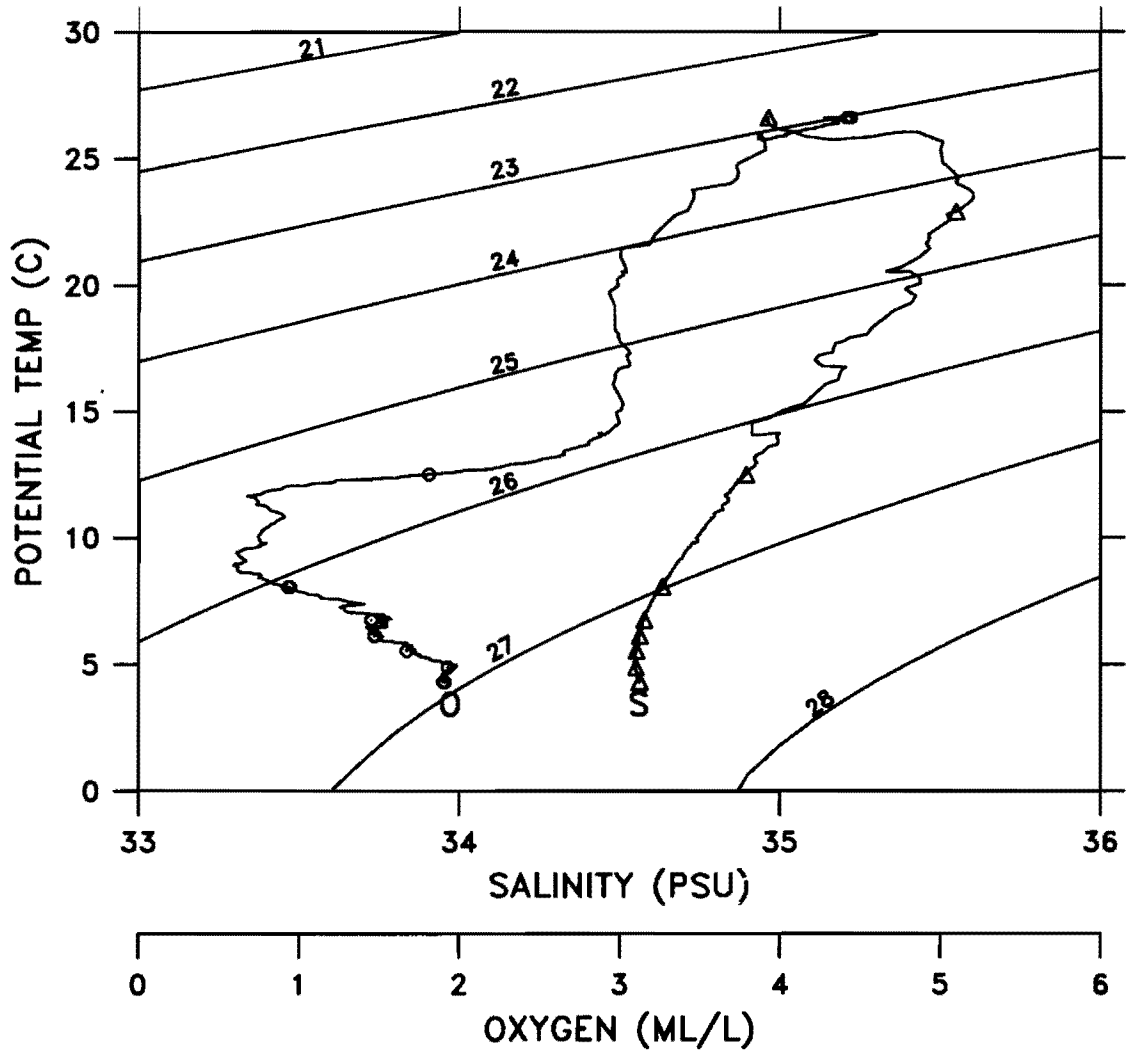


CAST EP2-87-0C -010 DATE 14 OCT 87 TIME 0350 GMT
 LAT 00 02.1S LONG 139 57.6W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 105 T SPD 14 KT VISIBILITY 9
 CLOUD 3 AMOUNT 3 DRY 27.0 WET 25.0 DEPTH 4322 M

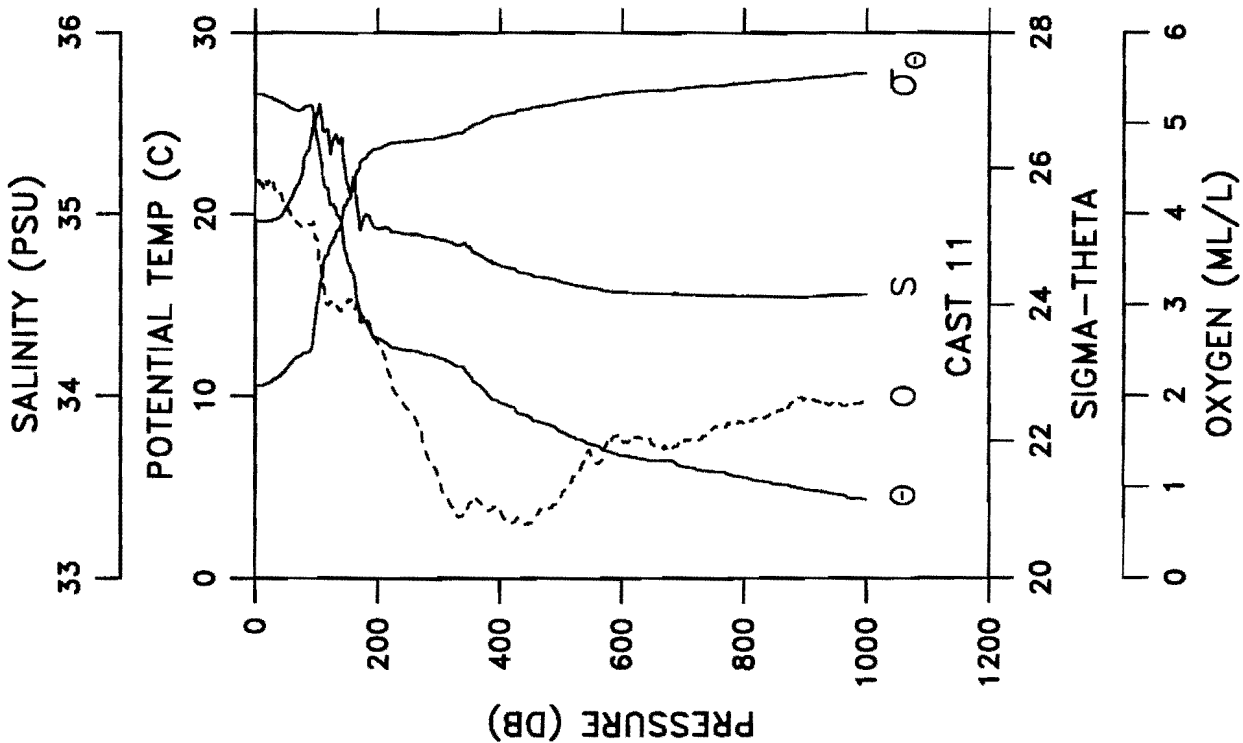


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.911 | 34.887 | 4.08 | 22.663 | 0.000 |
| 10 | 26.900 | 34.886 | 4.52 | 22.666 | 0.052 |
| 20 | 26.674 | 34.890 | 4.51 | 22.741 | 0.103 |
| 30 | 26.427 | 34.912 | 4.32 | 22.835 | 0.154 |
| 40 | 26.124 | 34.941 | 4.12 | 22.952 | 0.204 |
| 50 | 25.706 | 34.997 | 3.87 | 23.124 | 0.252 |
| 60 | 25.215 | 35.066 | 3.71 | 23.327 | 0.299 |
| 70 | 24.295 | 35.175 | 3.38 | 23.688 | 0.343 |
| 80 | 23.826 | 35.381 | 3.31 | 23.983 | 0.384 |
| 90 | 22.083 | 35.185 | 3.02 | 24.336 | 0.422 |
| 100 | 21.661 | 35.292 | 2.94 | 24.536 | 0.457 |
| 110 | 21.442 | 35.417 | 2.91 | 24.692 | 0.491 |
| 120 | 20.031 | 35.246 | 3.00 | 24.942 | 0.522 |
| 130 | 19.231 | 35.233 | 3.03 | 25.141 | 0.552 |
| 140 | 18.100 | 35.182 | 3.03 | 25.388 | 0.579 |
| 150 | 17.236 | 35.080 | 3.02 | 25.520 | 0.605 |
| 160 | 16.317 | 35.042 | 2.94 | 25.708 | 0.629 |
| 170 | 14.912 | 34.942 | 2.90 | 25.948 | 0.651 |
| 180 | 13.871 | 34.946 | 2.81 | 26.173 | 0.671 |
| 190 | 13.608 | 34.959 | 2.71 | 26.238 | 0.689 |
| 200 | 12.943 | 34.893 | 2.45 | 26.322 | 0.707 |
| 250 | 12.508 | 34.888 | 1.79 | 26.405 | 0.793 |
| 300 | 11.440 | 34.814 | 0.68 | 26.551 | 0.875 |
| 306 | 11.223 | 34.793 | 0.70 | 26.574 | 0.884 |

CAST EP2-87-OC -011 DATE 14 OCT 87 TIME 0713 GMT
LAT 00 29.4S LONG 140 00.1W

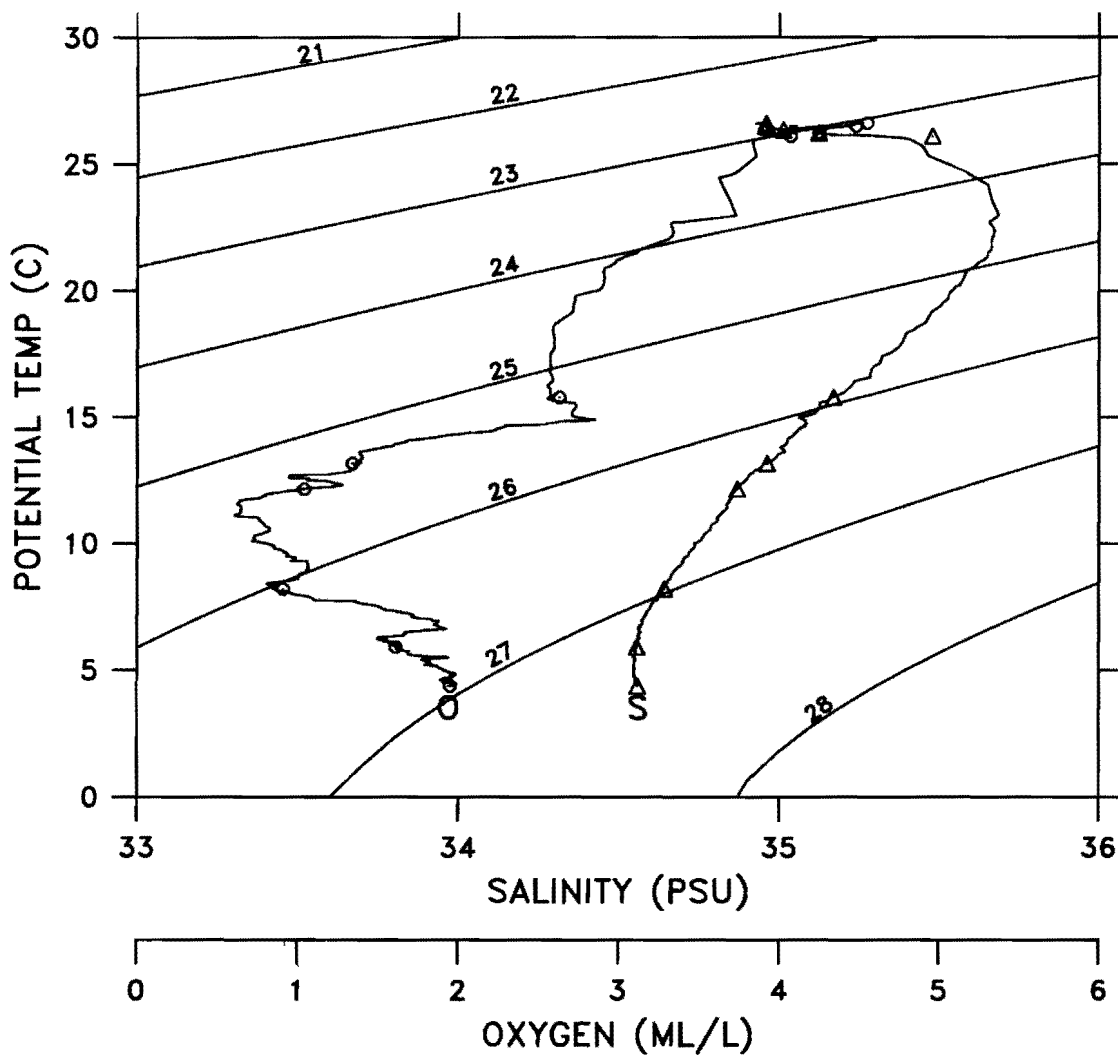


CAST EP2-87-OC -011 DATE 14 OCT 87 TIME 0713 GMT
 LAT 00 29.4S LONG 140 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 085 T SPD 11 KT VISIBILITY 8
 CLOUD 1 AMOUNT 4 DRY 26.5 WET 25.4 DEPTH 4291 M

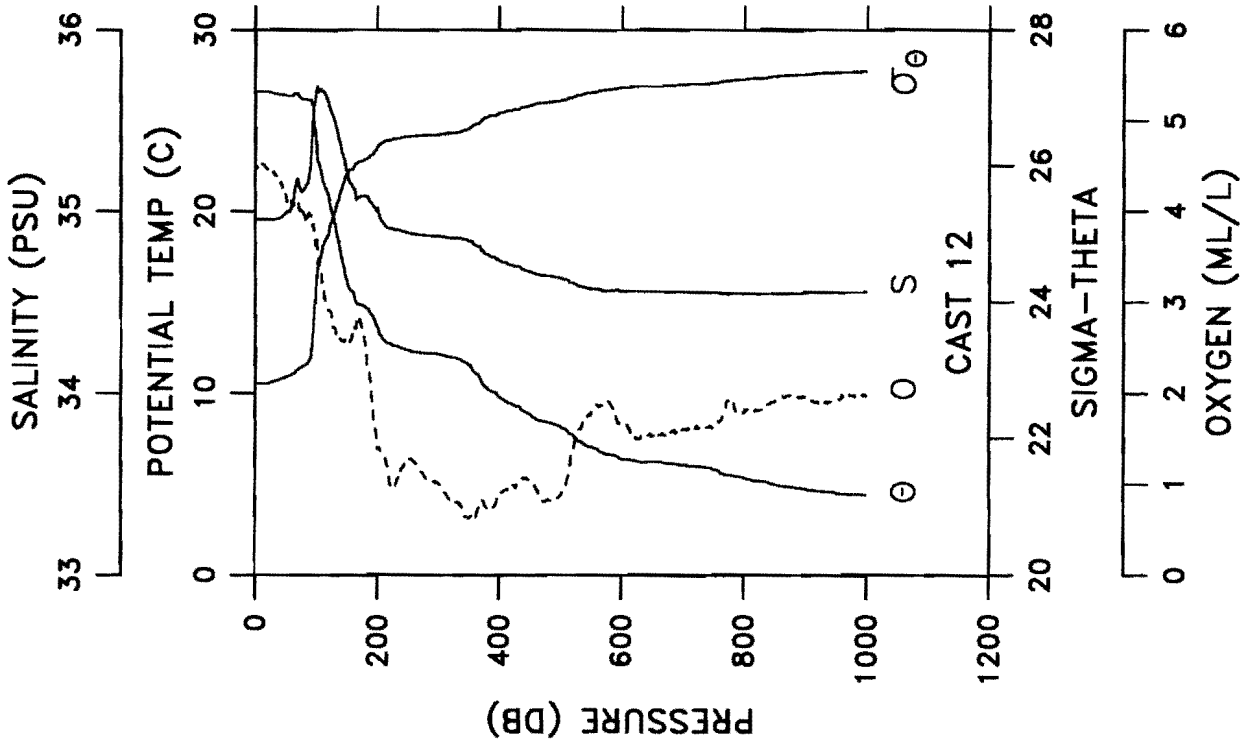


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.593 | 34.961 | 4.36 | 22.820 | 0.000 |
| 10 | 26.595 | 34.961 | 4.28 | 22.819 | 0.050 |
| 20 | 26.496 | 34.961 | 4.32 | 22.850 | 0.101 |
| 30 | 26.328 | 34.969 | 4.32 | 22.909 | 0.150 |
| 40 | 26.197 | 34.982 | 4.22 | 22.960 | 0.200 |
| 50 | 26.016 | 35.039 | 4.08 | 23.060 | 0.248 |
| 60 | 25.815 | 35.095 | 3.98 | 23.165 | 0.296 |
| 70 | 25.717 | 35.163 | 3.88 | 23.246 | 0.343 |
| 80 | 25.900 | 35.317 | 3.87 | 23.305 | 0.389 |
| 90 | 26.009 | 35.414 | 3.88 | 23.345 | 0.435 |
| 100 | 24.207 | 35.557 | 3.73 | 24.003 | 0.478 |
| 110 | 21.974 | 35.461 | 3.22 | 24.577 | 0.515 |
| 120 | 20.965 | 35.414 | 3.02 | 24.820 | 0.548 |
| 130 | 20.372 | 35.429 | 3.01 | 24.992 | 0.579 |
| 140 | 19.586 | 35.423 | 2.94 | 25.194 | 0.608 |
| 150 | 17.461 | 35.166 | 3.05 | 25.532 | 0.634 |
| 160 | 16.693 | 35.195 | 2.99 | 25.738 | 0.658 |
| 170 | 14.560 | 34.913 | 3.00 | 26.001 | 0.679 |
| 180 | 14.150 | 34.999 | 2.89 | 26.155 | 0.699 |
| 190 | 13.444 | 34.949 | 2.65 | 26.264 | 0.717 |
| 200 | 13.179 | 34.922 | 2.58 | 26.297 | 0.735 |
| 250 | 12.521 | 34.890 | 1.85 | 26.403 | 0.821 |
| 300 | 12.135 | 34.863 | 1.07 | 26.457 | 0.904 |
| 350 | 11.188 | 34.821 | 0.80 | 26.602 | 0.984 |
| 400 | 9.659 | 34.721 | 0.75 | 26.792 | 1.054 |
| 450 | 8.808 | 34.670 | 0.61 | 26.890 | 1.119 |
| 500 | 8.067 | 34.628 | 0.89 | 26.972 | 1.179 |
| 550 | 7.350 | 34.596 | 1.35 | 27.051 | 1.236 |
| 600 | 6.750 | 34.572 | 1.50 | 27.116 | 1.289 |
| 650 | 6.467 | 34.566 | 1.47 | 27.149 | 1.340 |
| 700 | 6.140 | 34.558 | 1.50 | 27.186 | 1.390 |
| 750 | 5.855 | 34.552 | 1.64 | 27.217 | 1.438 |
| 800 | 5.537 | 34.549 | 1.71 | 27.255 | 1.485 |
| 900 | 4.874 | 34.548 | 1.97 | 27.331 | 1.573 |
| 1000 | 4.314 | 34.559 | 1.93 | 27.403 | 1.654 |
| 1011 | 4.288 | 34.560 | 1.94 | 27.406 | 1.662 |

CAST EP2-87-OC -012 DATE 14 OCT 87 TIME 1115 GMT
LAT 01 00.2S LONG 139 59.5W

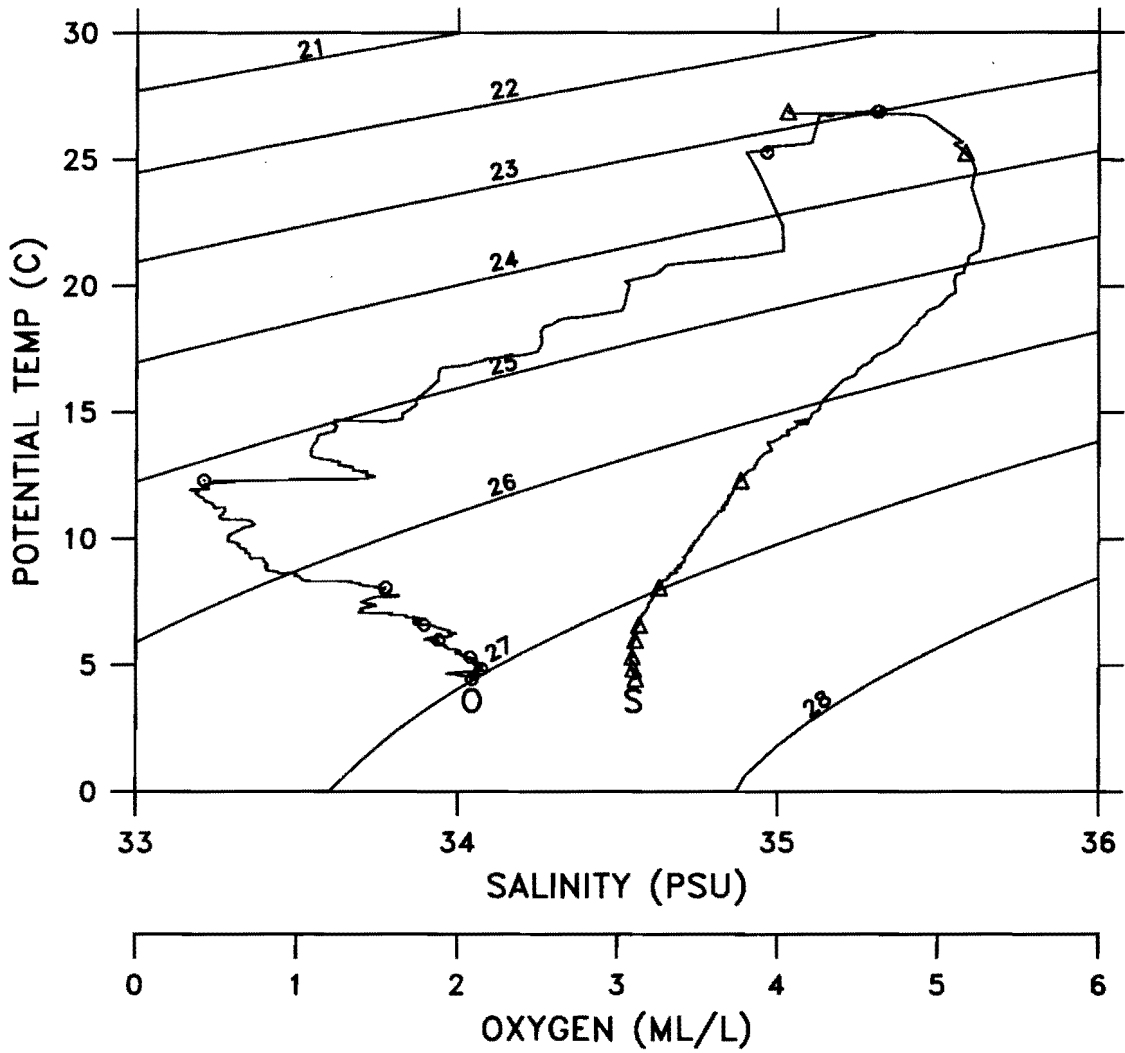


CAST EP2-87-OC -012 DATE 14 OCT 87 TIME 1115 GMT
 LAT 01 00.2S LONG 139 59.5W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 190 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 26.4 WET 25.0 DEPTH 4272 M

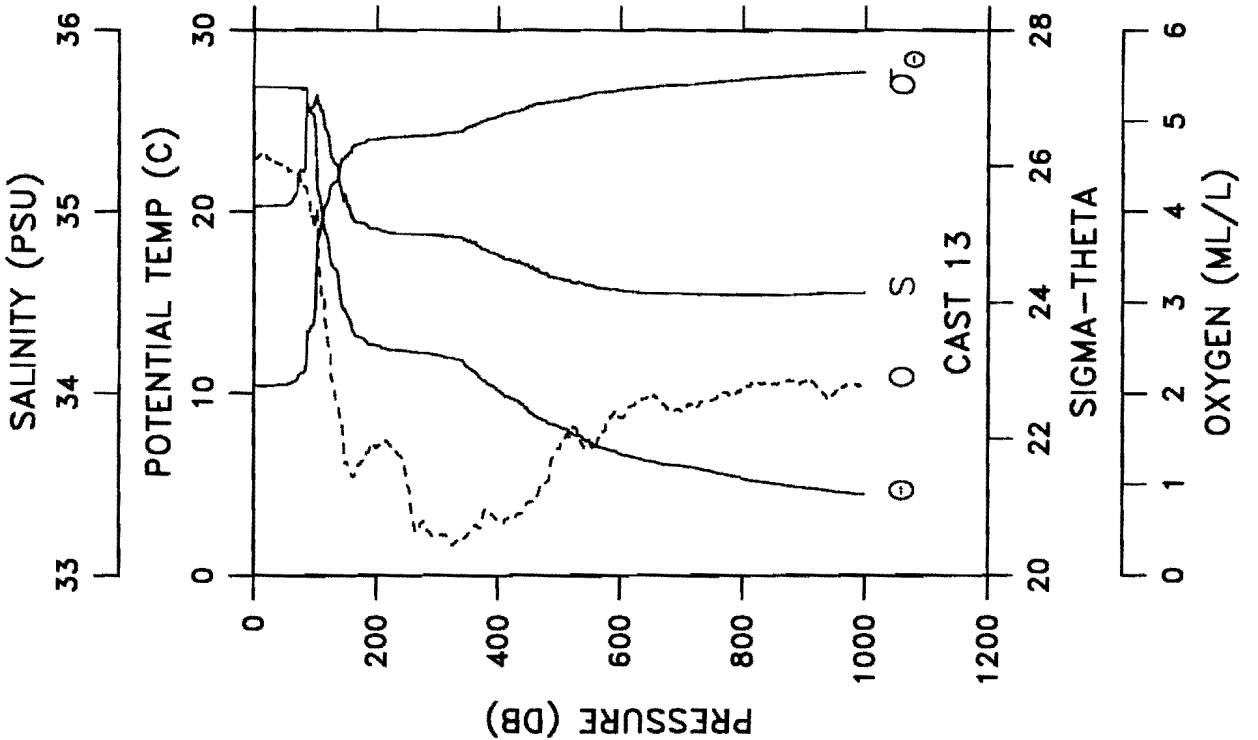


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-O (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.599 | 34.926 | 4.48 | 22.791 | 0.000 |
| 10 | 26.606 | 34.955 | 4.52 | 22.811 | 0.050 |
| 20 | 26.602 | 34.955 | 4.47 | 22.812 | 0.101 |
| 30 | 26.505 | 34.955 | 4.42 | 22.843 | 0.151 |
| 40 | 26.446 | 34.961 | 4.31 | 22.866 | 0.201 |
| 50 | 26.395 | 34.988 | 4.17 | 22.902 | 0.251 |
| 60 | 26.368 | 35.036 | 4.05 | 22.947 | 0.301 |
| 70 | 26.439 | 35.159 | 4.09 | 23.018 | 0.350 |
| 80 | 26.189 | 35.125 | 3.95 | 23.071 | 0.398 |
| 90 | 26.130 | 35.233 | 3.96 | 23.170 | 0.446 |
| 100 | 23.530 | 35.667 | 3.69 | 24.287 | 0.489 |
| 110 | 21.622 | 35.665 | 3.12 | 24.830 | 0.523 |
| 120 | 20.772 | 35.586 | 2.90 | 25.004 | 0.553 |
| 130 | 19.265 | 35.489 | 2.71 | 25.328 | 0.581 |
| 140 | 17.569 | 35.350 | 2.58 | 25.647 | 0.607 |
| 150 | 16.123 | 35.215 | 2.57 | 25.885 | 0.629 |
| 160 | 15.552 | 35.125 | 2.72 | 25.946 | 0.651 |
| 170 | 14.879 | 35.079 | 2.82 | 26.061 | 0.671 |
| 180 | 14.720 | 35.084 | 2.55 | 26.098 | 0.691 |
| 190 | 14.317 | 35.046 | 1.99 | 26.156 | 0.710 |
| 200 | 13.619 | 35.018 | 1.38 | 26.281 | 0.729 |
| 250 | 12.377 | 34.883 | 1.23 | 26.426 | 0.814 |
| 300 | 12.142 | 34.863 | 1.02 | 26.456 | 0.896 |
| 350 | 11.599 | 34.839 | 0.63 | 26.540 | 0.977 |
| 400 | 9.810 | 34.733 | 0.86 | 26.776 | 1.050 |
| 450 | 8.858 | 34.689 | 1.05 | 26.882 | 1.115 |
| 500 | 8.165 | 34.634 | 0.88 | 26.962 | 1.175 |
| 550 | 7.042 | 34.576 | 1.76 | 27.079 | 1.231 |
| 600 | 6.374 | 34.560 | 1.65 | 27.157 | 1.282 |
| 650 | 6.221 | 34.559 | 1.52 | 27.176 | 1.331 |
| 700 | 6.045 | 34.556 | 1.59 | 27.196 | 1.380 |
| 750 | 5.822 | 34.553 | 1.62 | 27.222 | 1.428 |
| 800 | 5.362 | 34.547 | 1.79 | 27.274 | 1.473 |
| 900 | 4.740 | 34.550 | 1.95 | 27.348 | 1.559 |
| 1000 | 4.394 | 34.558 | 1.97 | 27.393 | 1.639 |
| 1011 | 4.365 | 34.558 | 1.94 | 27.396 | 1.647 |

CAST EP2-87-OC -013 DATE 14 OCT 87 TIME 1516 GMT
LAT 01 30.0S LONG 139 59.5W

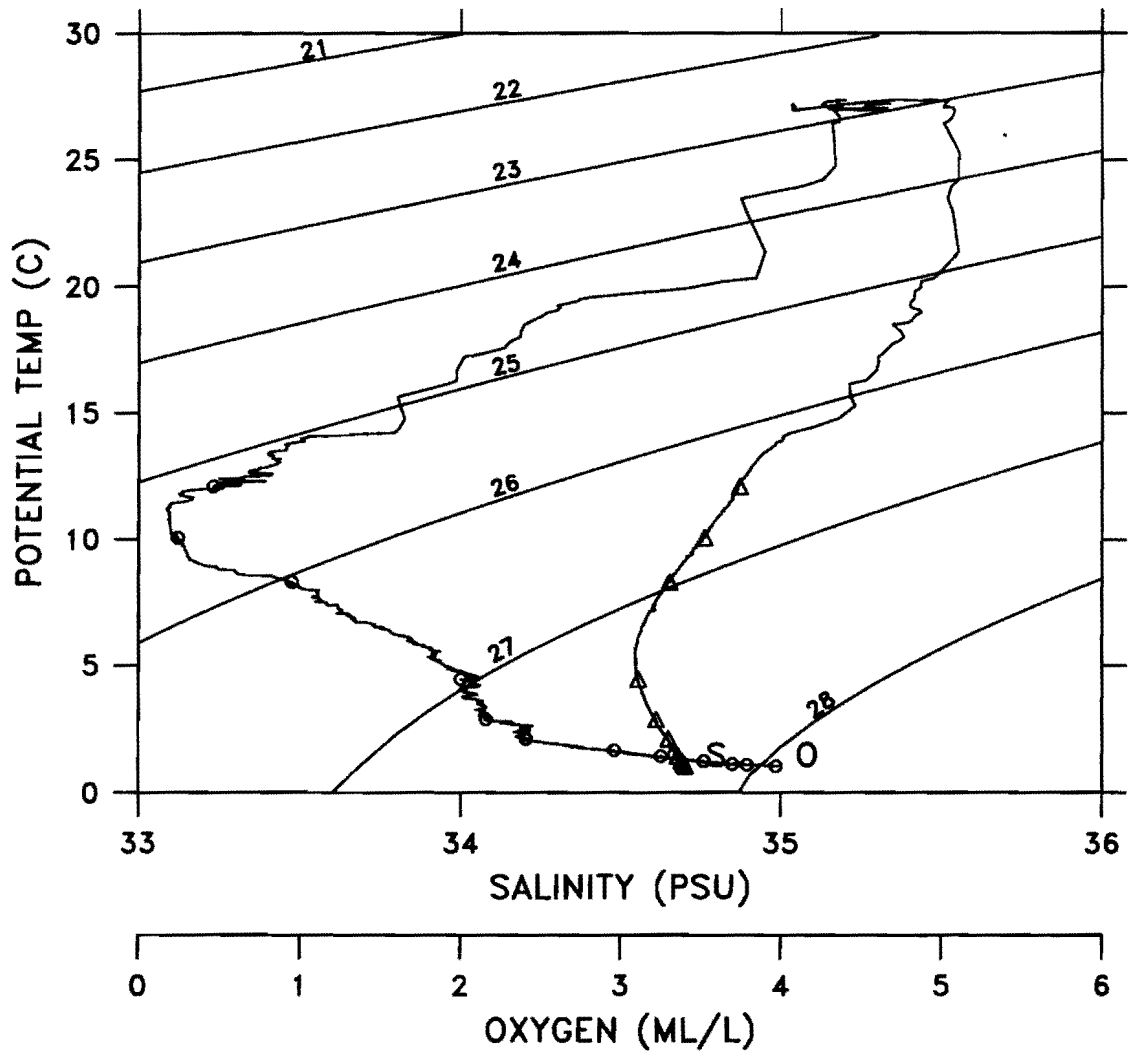


CAST EP2-87-OC -013 DATE 14 OCT 87 TIME 1516 GMT
 LAT 01 30.0S LONG 139 59.5W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 100 T SPD 08 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 25.0 DEPTH 4322 M

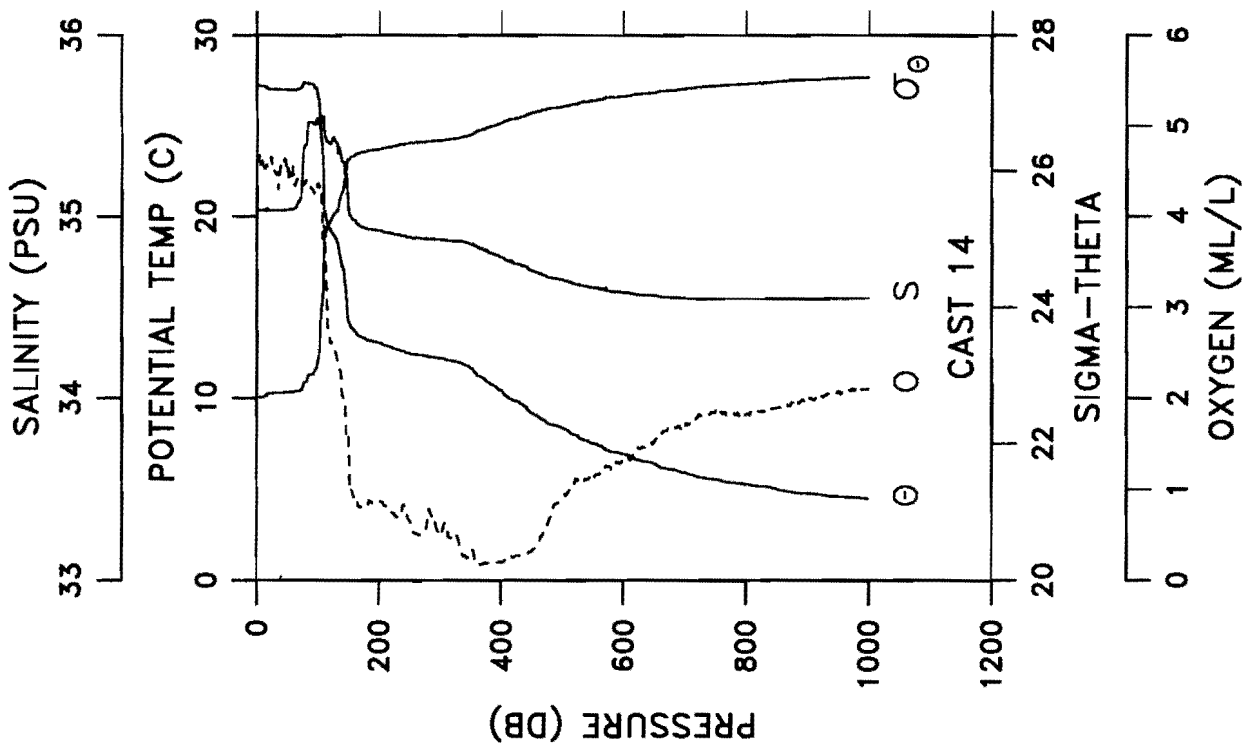


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 26.869 | 35.031 | 4.58 | 22.785 | 0.000 |
| 10 | 26.881 | 35.030 | 4.61 | 22.781 | 0.051 |
| 20 | 26.884 | 35.030 | 4.62 | 22.779 | 0.101 |
| 30 | 26.877 | 35.030 | 4.55 | 22.782 | 0.152 |
| 40 | 26.856 | 35.032 | 4.53 | 22.790 | 0.203 |
| 50 | 26.849 | 35.034 | 4.50 | 22.793 | 0.254 |
| 60 | 26.806 | 35.048 | 4.45 | 22.818 | 0.304 |
| 70 | 26.811 | 35.110 | 4.41 | 22.863 | 0.355 |
| 80 | 26.725 | 35.218 | 4.34 | 22.972 | 0.404 |
| 90 | 25.603 | 35.549 | 4.11 | 23.573 | 0.451 |
| 100 | 24.590 | 35.616 | 3.87 | 23.933 | 0.494 |
| 110 | 20.182 | 35.550 | 3.04 | 25.134 | 0.525 |
| 120 | 18.476 | 35.433 | 2.59 | 25.486 | 0.552 |
| 130 | 16.883 | 35.275 | 2.07 | 25.754 | 0.576 |
| 140 | 15.489 | 35.143 | 1.74 | 25.974 | 0.598 |
| 150 | 14.514 | 35.061 | 1.23 | 26.125 | 0.618 |
| 160 | 13.496 | 34.983 | 1.08 | 26.279 | 0.636 |
| 170 | 13.137 | 34.938 | 1.17 | 26.318 | 0.654 |
| 180 | 12.994 | 34.935 | 1.26 | 26.345 | 0.671 |
| 190 | 12.681 | 34.908 | 1.43 | 26.387 | 0.688 |
| 200 | 12.649 | 34.906 | 1.40 | 26.391 | 0.705 |
| 250 | 12.334 | 34.879 | 1.08 | 26.432 | 0.788 |
| 300 | 12.121 | 34.869 | 0.44 | 26.465 | 0.871 |
| 350 | 11.468 | 34.837 | 0.43 | 26.563 | 0.951 |
| 400 | 10.181 | 34.764 | 0.59 | 26.737 | 1.024 |
| 450 | 9.041 | 34.700 | 0.81 | 26.877 | 1.091 |
| 500 | 8.172 | 34.633 | 1.39 | 26.960 | 1.152 |
| 550 | 7.305 | 34.597 | 1.46 | 27.059 | 1.209 |
| 600 | 6.674 | 34.566 | 1.74 | 27.122 | 1.261 |
| 650 | 6.268 | 34.553 | 1.95 | 27.165 | 1.312 |
| 700 | 6.021 | 34.552 | 1.80 | 27.196 | 1.361 |
| 750 | 5.709 | 34.546 | 1.93 | 27.231 | 1.408 |
| 800 | 5.308 | 34.542 | 2.06 | 27.276 | 1.454 |
| 900 | 4.811 | 34.545 | 2.13 | 27.337 | 1.540 |
| 1000 | 4.464 | 34.555 | 2.11 | 27.383 | 1.621 |
| 1012 | 4.440 | 34.554 | 2.09 | 27.385 | 1.630 |

CAST EP2-87-OC -014 DATE 15 OCT 87 TIME 0733 GMT
LAT 02 00.1S LONG 139 58.2W

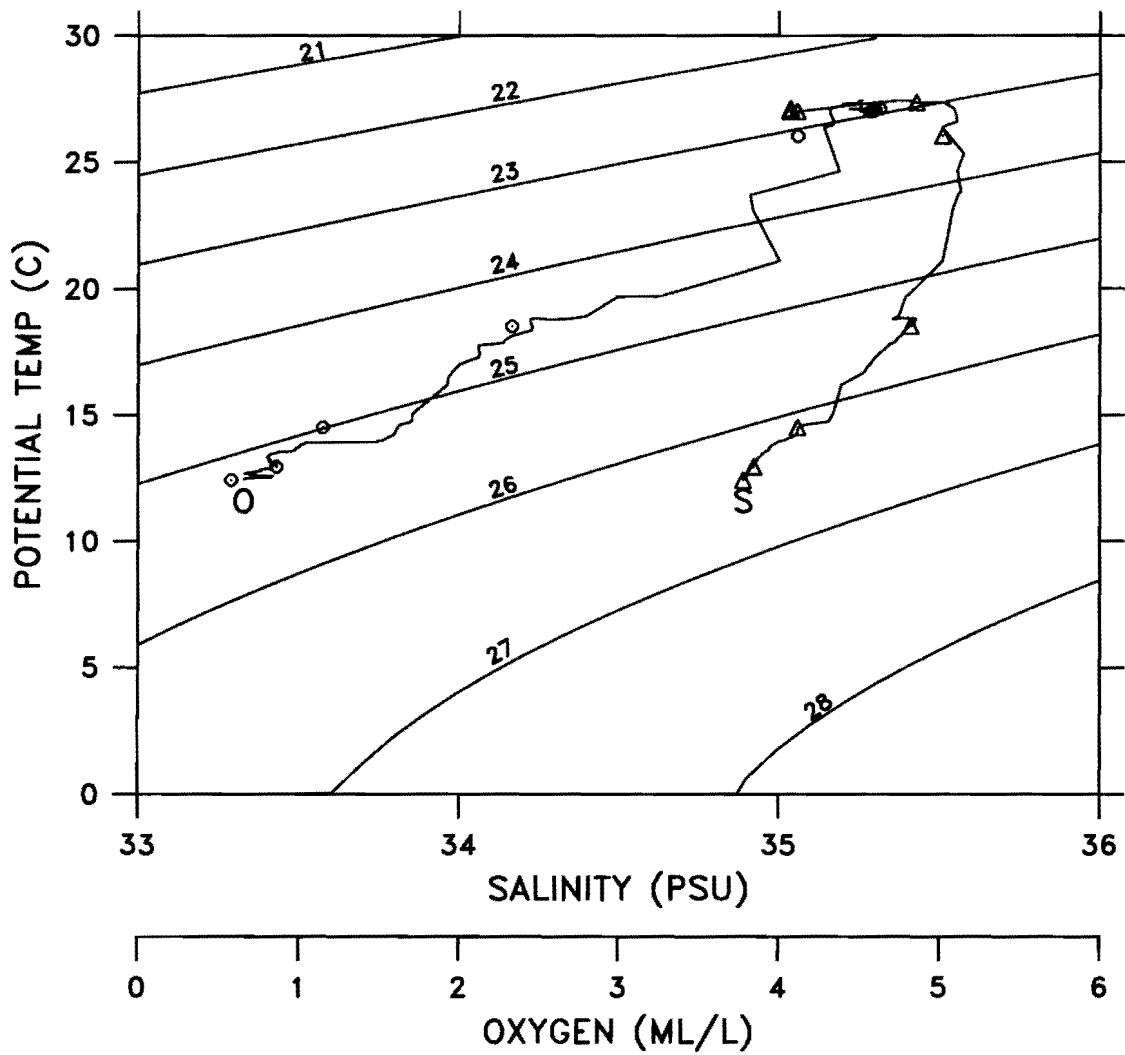


CAST EP2-87-OC -014 DATE 15 OCT 87 TIME 0733 GMT
 LAT 02 00.1S LONG 139 58.2W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 050 T SPD 14 KT VISIBILITY 7
 CLOUD 1 AMOUNT 2 DRY 26.6 WET 25.2 DEPTH 4299 M

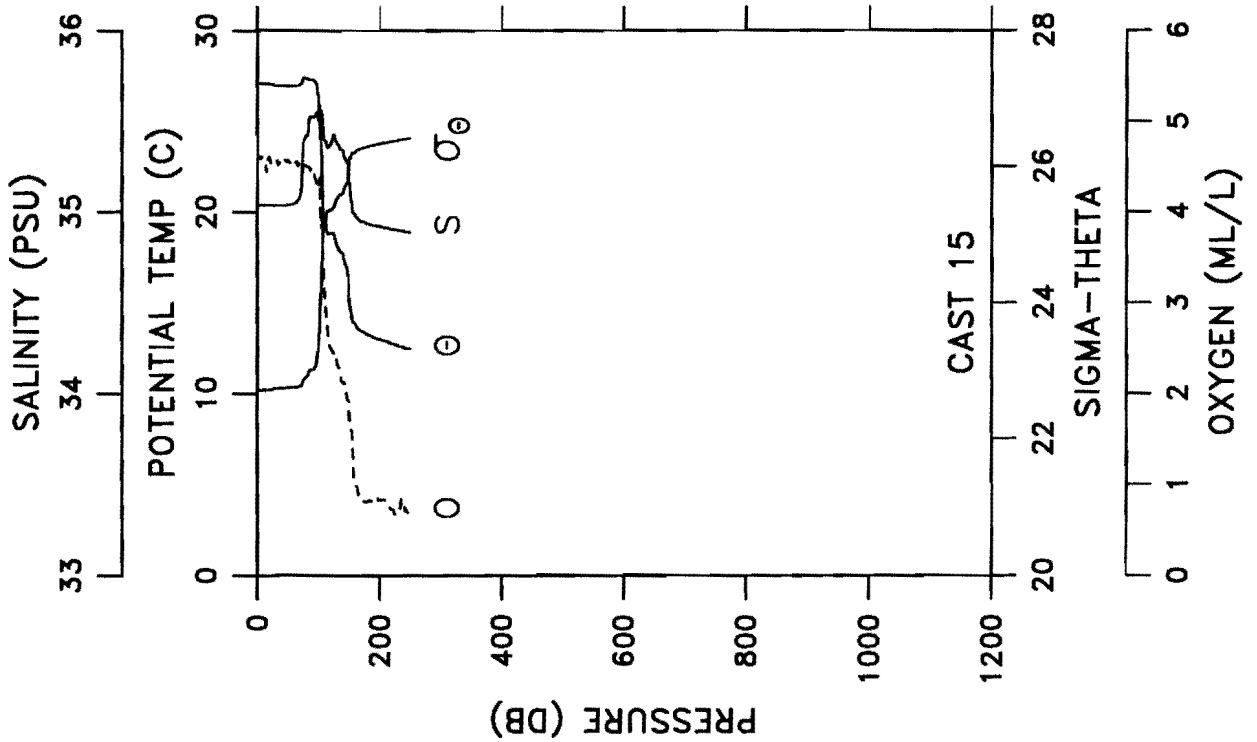


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 27.208 | 35.037 | 4.62 | 22.681 | 0.000 |
| 10 | 27.198 | 35.037 | 4.52 | 22.684 | 0.052 |
| 20 | 27.032 | 35.034 | 4.59 | 22.735 | 0.103 |
| 30 | 27.007 | 35.034 | 4.49 | 22.743 | 0.154 |
| 40 | 26.994 | 35.033 | 4.58 | 22.747 | 0.205 |
| 50 | 26.973 | 35.036 | 4.55 | 22.756 | 0.256 |
| 60 | 26.963 | 35.042 | 4.38 | 22.763 | 0.308 |
| 70 | 27.019 | 35.085 | 4.37 | 22.777 | 0.359 |
| 80 | 27.337 | 35.392 | 4.38 | 22.907 | 0.409 |
| 90 | 27.300 | 35.520 | 4.31 | 23.015 | 0.458 |
| 100 | 26.671 | 35.533 | 4.37 | 23.226 | 0.507 |
| 110 | 21.357 | 35.553 | 3.90 | 24.818 | 0.548 |
| 120 | 19.294 | 35.401 | 2.64 | 25.254 | 0.576 |
| 130 | 18.755 | 35.412 | 2.48 | 25.400 | 0.603 |
| 140 | 17.251 | 35.303 | 2.03 | 25.688 | 0.628 |
| 150 | 14.230 | 35.033 | 1.59 | 26.165 | 0.649 |
| 160 | 13.721 | 34.979 | 0.93 | 26.230 | 0.668 |
| 170 | 13.390 | 34.945 | 0.80 | 26.272 | 0.686 |
| 180 | 13.233 | 34.933 | 0.83 | 26.295 | 0.703 |
| 190 | 13.133 | 34.926 | 0.84 | 26.308 | 0.721 |
| 200 | 13.068 | 34.922 | 0.87 | 26.319 | 0.739 |
| 250 | 12.485 | 34.886 | 0.66 | 26.408 | 0.824 |
| 300 | 12.226 | 34.872 | 0.49 | 26.447 | 0.907 |
| 350 | 11.670 | 34.847 | 0.31 | 26.533 | 0.989 |
| 400 | 10.444 | 34.776 | 0.20 | 26.700 | 1.063 |
| 450 | 9.183 | 34.702 | 0.31 | 26.856 | 1.131 |
| 500 | 8.397 | 34.653 | 0.91 | 26.941 | 1.193 |
| 550 | 7.530 | 34.608 | 1.11 | 27.035 | 1.251 |
| 600 | 6.955 | 34.582 | 1.32 | 27.096 | 1.304 |
| 650 | 6.440 | 34.564 | 1.52 | 27.152 | 1.356 |
| 700 | 5.934 | 34.551 | 1.68 | 27.207 | 1.404 |
| 750 | 5.564 | 34.546 | 1.84 | 27.248 | 1.451 |
| 800 | 5.294 | 34.546 | 1.82 | 27.281 | 1.496 |
| 900 | 4.783 | 34.547 | 1.98 | 27.341 | 1.581 |
| 1000 | 4.483 | 34.552 | 2.09 | 27.378 | 1.663 |
| 1500 | 2.886 | 34.608 | 2.17 | 27.583 | 2.008 |
| 2000 | 2.102 | 34.648 | 2.41 | 27.681 | 2.287 |
| 2500 | 1.665 | 34.666 | 2.91 | 27.730 | 2.530 |
| 3000 | 1.431 | 34.676 | 3.20 | 27.755 | 2.759 |
| 3500 | 1.238 | 34.689 | 3.46 | 27.779 | 2.981 |
| 4000 | 1.090 | 34.696 | 3.80 | 27.795 | 3.196 |
| 4350 | 1.035 | 34.699 | 3.96 | 27.801 | 3.347 |

CAST EP2-87-OC -015 DATE 15 OCT 87 TIME 1024 GMT
LAT 02 00.2S LONG 139 57.1W

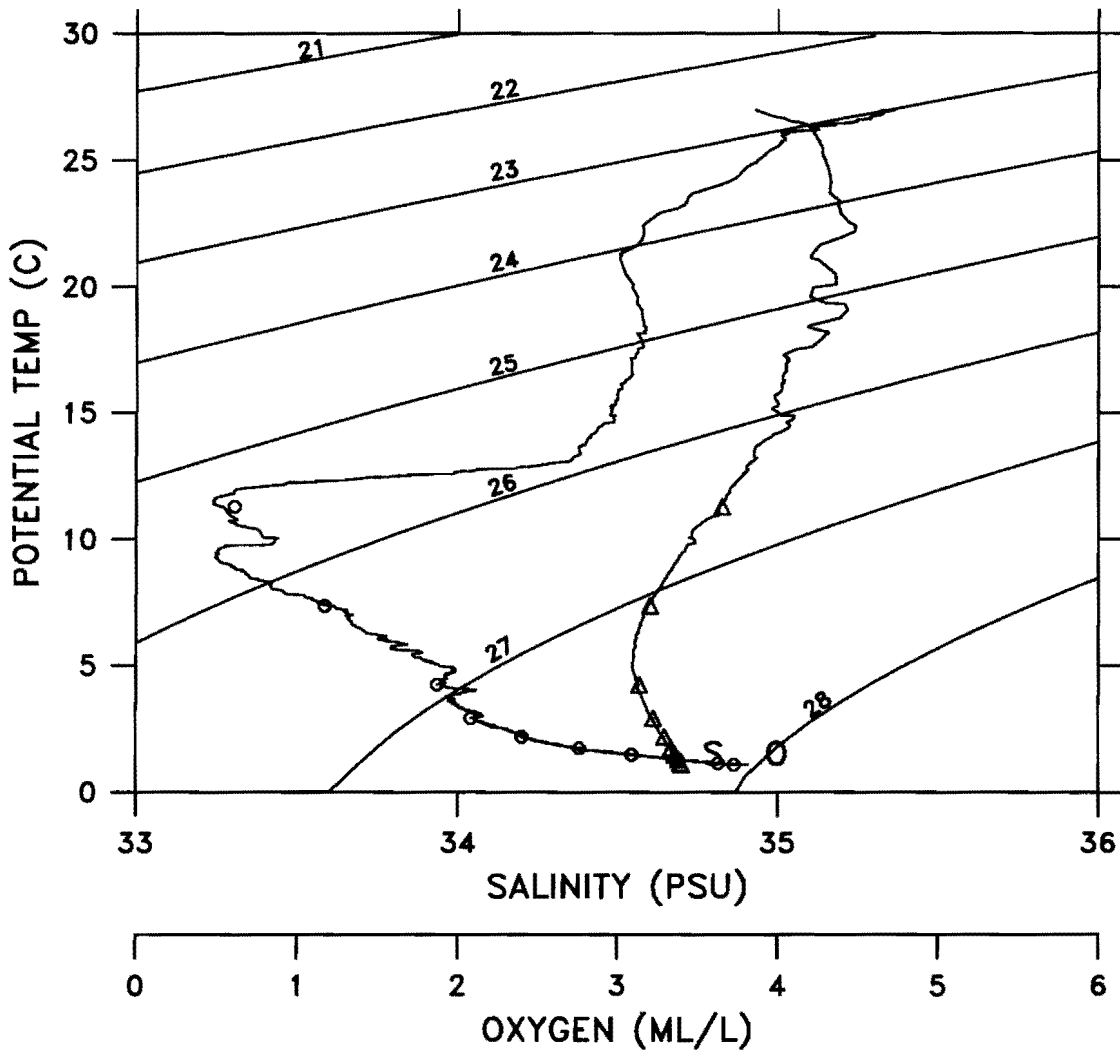


CAST EP2-87-OC -015 DATE 15 OCT 87 TIME 1024 GMT
 LAT 02 00.2S LONG 139 57.1W WEATHER 0 SEA STATE 2
 BAROMETER 11 WIND DIR 050 T SPD 12 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 28.4 WET 24.5 DEPTH 4334 M

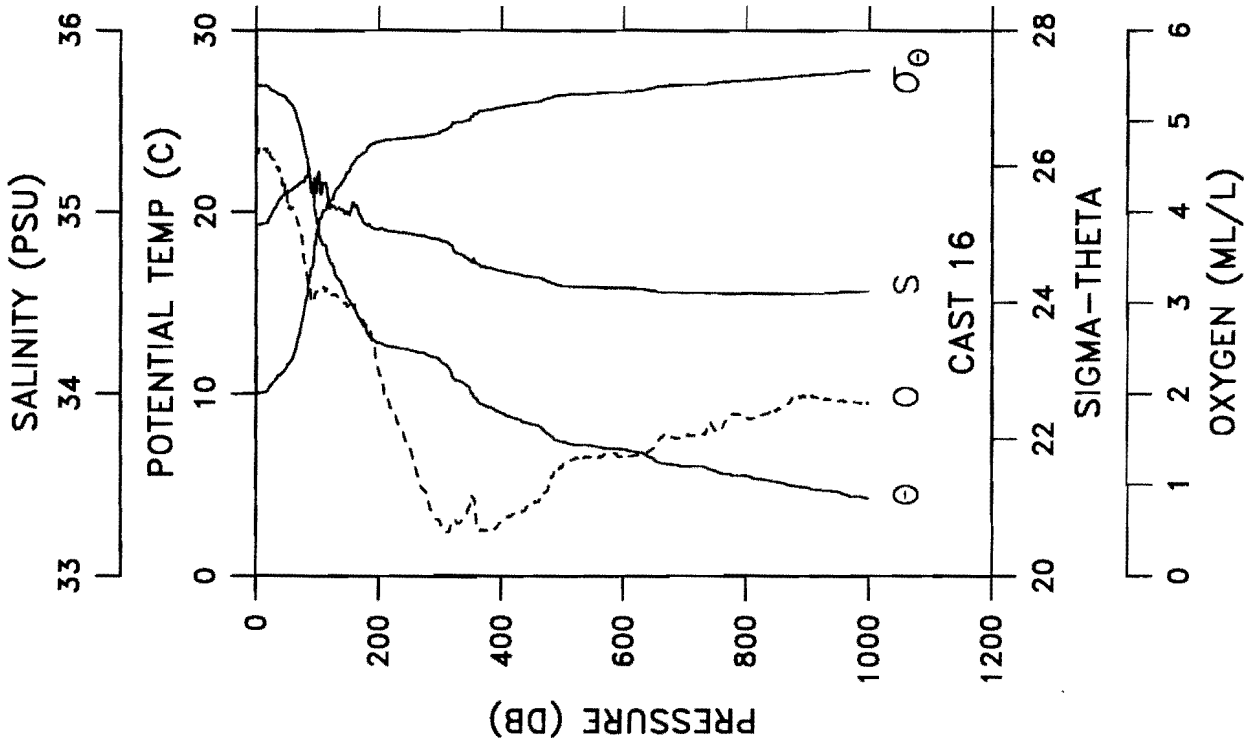


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.083 | 35.037 | 4.61 | 22.721 | 0.000 |
| 10 | 27.076 | 35.036 | 4.57 | 22.723 | 0.051 |
| 20 | 27.070 | 35.036 | 4.60 | 22.725 | 0.103 |
| 30 | 27.004 | 35.036 | 4.57 | 22.746 | 0.154 |
| 40 | 26.987 | 35.037 | 4.56 | 22.752 | 0.205 |
| 50 | 26.969 | 35.040 | 4.58 | 22.760 | 0.256 |
| 60 | 26.967 | 35.046 | 4.54 | 22.765 | 0.307 |
| 70 | 27.033 | 35.093 | 4.53 | 22.779 | 0.358 |
| 80 | 27.369 | 35.424 | 4.51 | 22.921 | 0.408 |
| 90 | 27.294 | 35.526 | 4.40 | 23.021 | 0.458 |
| 100 | 26.358 | 35.508 | 4.28 | 23.306 | 0.505 |
| 110 | 19.692 | 35.396 | 3.07 | 25.146 | 0.541 |
| 120 | 18.824 | 35.378 | 2.50 | 25.356 | 0.568 |
| 130 | 18.119 | 35.379 | 2.32 | 25.534 | 0.593 |
| 140 | 17.711 | 35.339 | 2.12 | 25.604 | 0.618 |
| 150 | 15.043 | 35.170 | 1.71 | 26.095 | 0.641 |
| 160 | 13.805 | 34.979 | 1.01 | 26.212 | 0.660 |
| 170 | 13.429 | 34.948 | 0.82 | 26.266 | 0.678 |
| 180 | 13.249 | 34.934 | 0.81 | 26.292 | 0.695 |
| 190 | 13.093 | 34.924 | 0.85 | 26.316 | 0.713 |
| 200 | 12.992 | 34.920 | 0.83 | 26.333 | 0.731 |
| 249 | 12.449 | 34.887 | 0.66 | 26.415 | 0.814 |

CAST EP2-87-OC -016 DATE 16 OCT 87 TIME 1135 GMT
LAT 00 00.3S LONG 135 02.0W

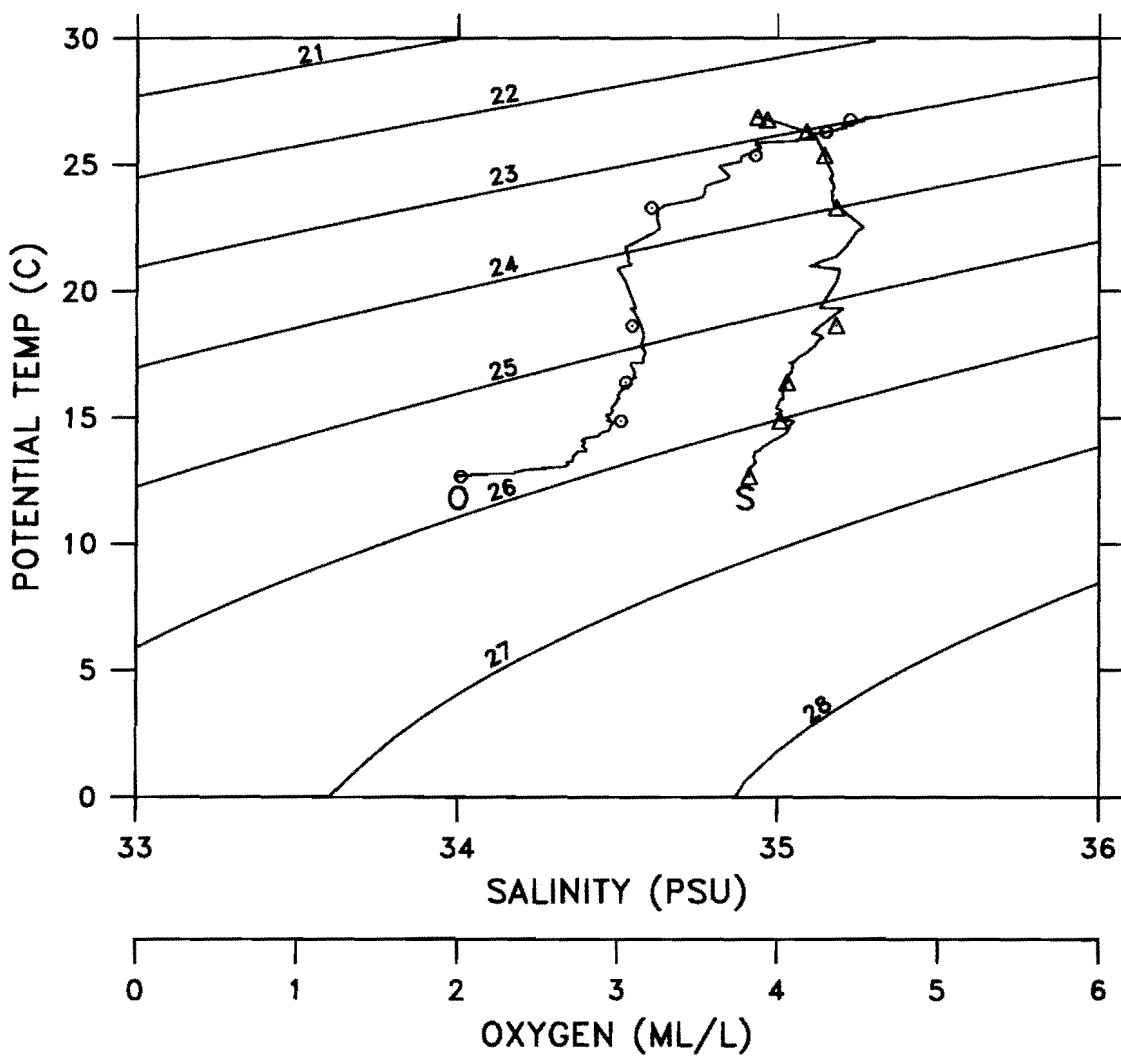


CAST EP2-87-OC -016 DATE 16 OCT 87 TIME 1135 GMT
 LAT 00 00.35 LONG 135 02.0W WEATHER 1 SEA STATE 2
 BAROMETER 09 WIND DIR 095 T SPD 14 KT VISIBILITY 8
 CLOUD 1 AMOUNT 1 DRY 25.7 WET 23.6 DEPTH 4368 M

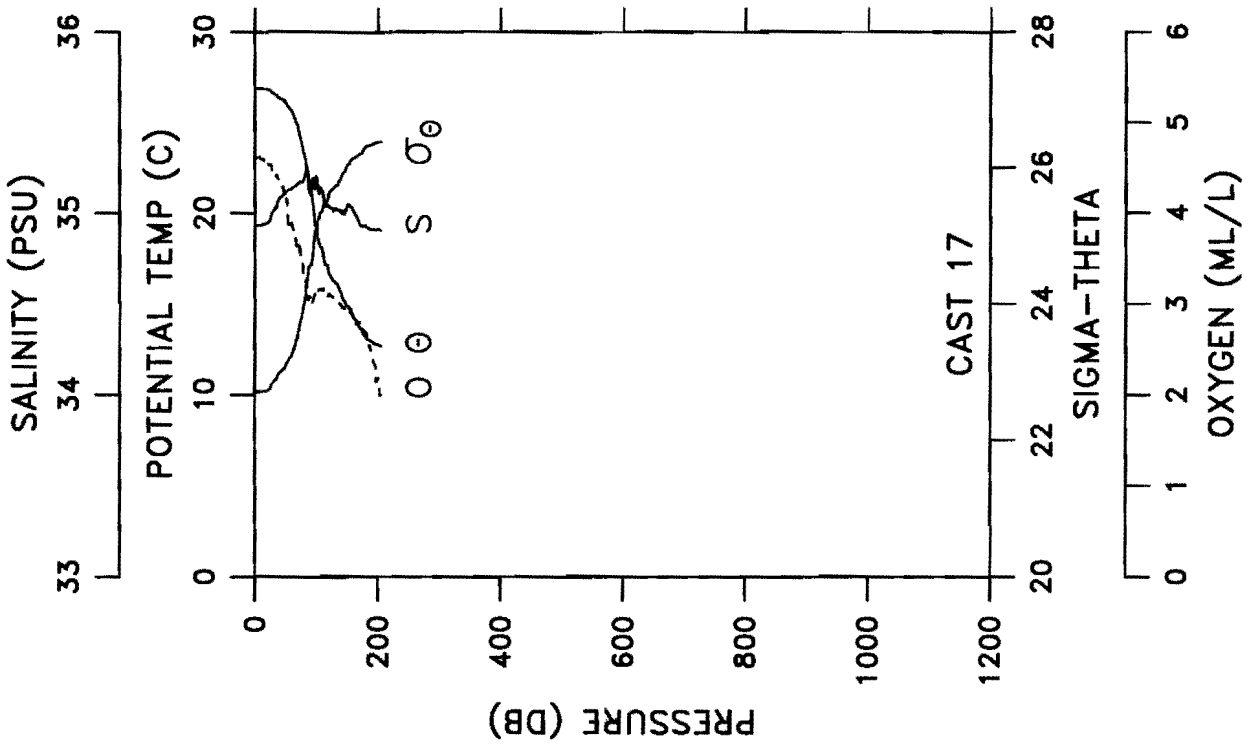


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.955 | 34.931 | 4.68 | 22.682 | 0.000 |
| 10 | 26.953 | 34.934 | 4.72 | 22.685 | 0.052 |
| 20 | 26.845 | 34.956 | 4.62 | 22.736 | 0.103 |
| 30 | 26.635 | 35.020 | 4.57 | 22.851 | 0.154 |
| 40 | 26.456 | 35.075 | 4.47 | 22.949 | 0.203 |
| 50 | 26.201 | 35.105 | 4.25 | 23.052 | 0.252 |
| 60 | 25.802 | 35.124 | 4.04 | 23.191 | 0.300 |
| 70 | 24.824 | 35.151 | 3.83 | 23.511 | 0.346 |
| 80 | 23.362 | 35.192 | 3.43 | 23.976 | 0.387 |
| 90 | 21.286 | 35.106 | 3.01 | 24.498 | 0.425 |
| 100 | 19.328 | 35.178 | 3.12 | 25.074 | 0.457 |
| 110 | 18.171 | 35.157 | 3.17 | 25.351 | 0.485 |
| 120 | 17.295 | 35.017 | 3.11 | 25.458 | 0.511 |
| 130 | 16.455 | 35.016 | 3.09 | 25.656 | 0.536 |
| 140 | 15.948 | 35.013 | 3.03 | 25.771 | 0.559 |
| 150 | 15.222 | 34.989 | 2.96 | 25.915 | 0.581 |
| 160 | 14.663 | 35.036 | 2.98 | 26.074 | 0.601 |
| 170 | 14.031 | 34.978 | 2.83 | 26.164 | 0.620 |
| 180 | 13.496 | 34.927 | 2.76 | 26.236 | 0.639 |
| 190 | 12.981 | 34.912 | 2.56 | 26.329 | 0.657 |
| 200 | 12.783 | 34.904 | 2.25 | 26.363 | 0.674 |
| 250 | 12.409 | 34.881 | 1.41 | 26.418 | 0.758 |
| 300 | 11.806 | 34.844 | 0.60 | 26.506 | 0.840 |
| 350 | 10.056 | 34.733 | 0.79 | 26.734 | 0.915 |
| 400 | 8.957 | 34.677 | 0.59 | 26.872 | 0.980 |
| 450 | 8.325 | 34.643 | 0.80 | 26.945 | 1.041 |
| 500 | 7.357 | 34.595 | 1.19 | 27.050 | 1.098 |
| 550 | 7.142 | 34.588 | 1.30 | 27.075 | 1.152 |
| 600 | 6.956 | 34.582 | 1.32 | 27.095 | 1.205 |
| 650 | 6.411 | 34.566 | 1.40 | 27.157 | 1.256 |
| 700 | 6.012 | 34.558 | 1.54 | 27.202 | 1.305 |
| 750 | 5.763 | 34.556 | 1.60 | 27.232 | 1.353 |
| 800 | 5.471 | 34.550 | 1.74 | 27.263 | 1.398 |
| 900 | 4.833 | 34.549 | 1.97 | 27.337 | 1.485 |
| 1000 | 4.237 | 34.563 | 1.89 | 27.414 | 1.565 |
| 1500 | 2.894 | 34.608 | 2.11 | 27.582 | 1.900 |
| 2000 | 2.169 | 34.642 | 2.43 | 27.671 | 2.176 |
| 2500 | 1.727 | 34.664 | 2.77 | 27.724 | 2.426 |
| 3000 | 1.474 | 34.677 | 3.10 | 27.753 | 2.656 |
| 3500 | 1.283 | 34.686 | 3.39 | 27.774 | 2.882 |
| 4000 | 1.088 | 34.696 | 3.73 | 27.795 | 3.097 |
| 4387 | 1.081 | 34.696 | 3.79 | 27.796 | 3.266 |

CAST EP2-87-OC -017 DATE 16 OCT 87 TIME 1407 GMT
LAT 00 00.5N LONG 134 58.3W

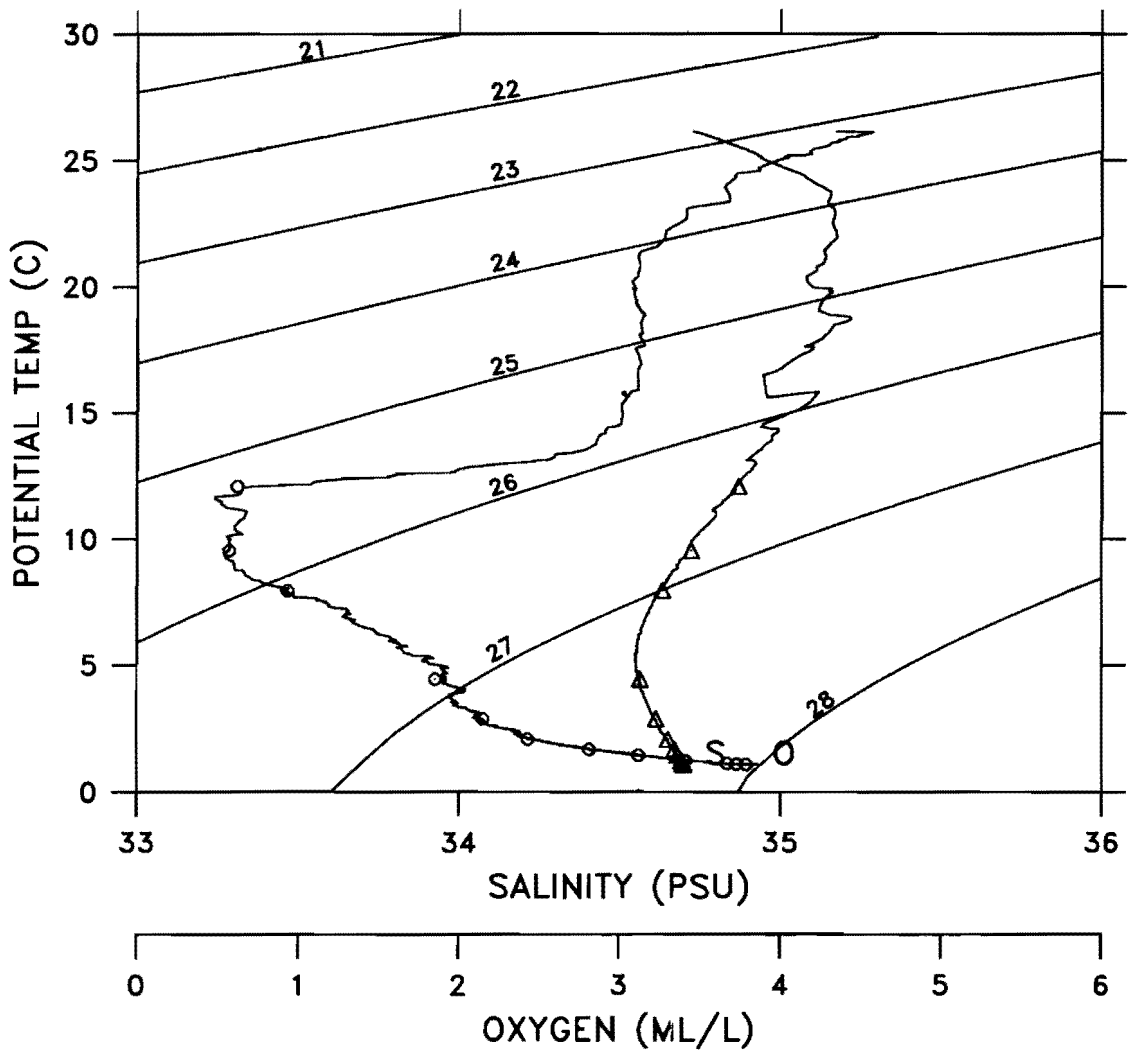


CAST EP2-87-OC -017 DATE 16 OCT 87 TIME 1407 GMT
 LAT 00 00.5N LONG 134 58.3W WEATHER 1 SEA STATE 2
 BAROMETER 10 WIND DIR 100 T SPD 12 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 23.8 DEPTH 4368 M

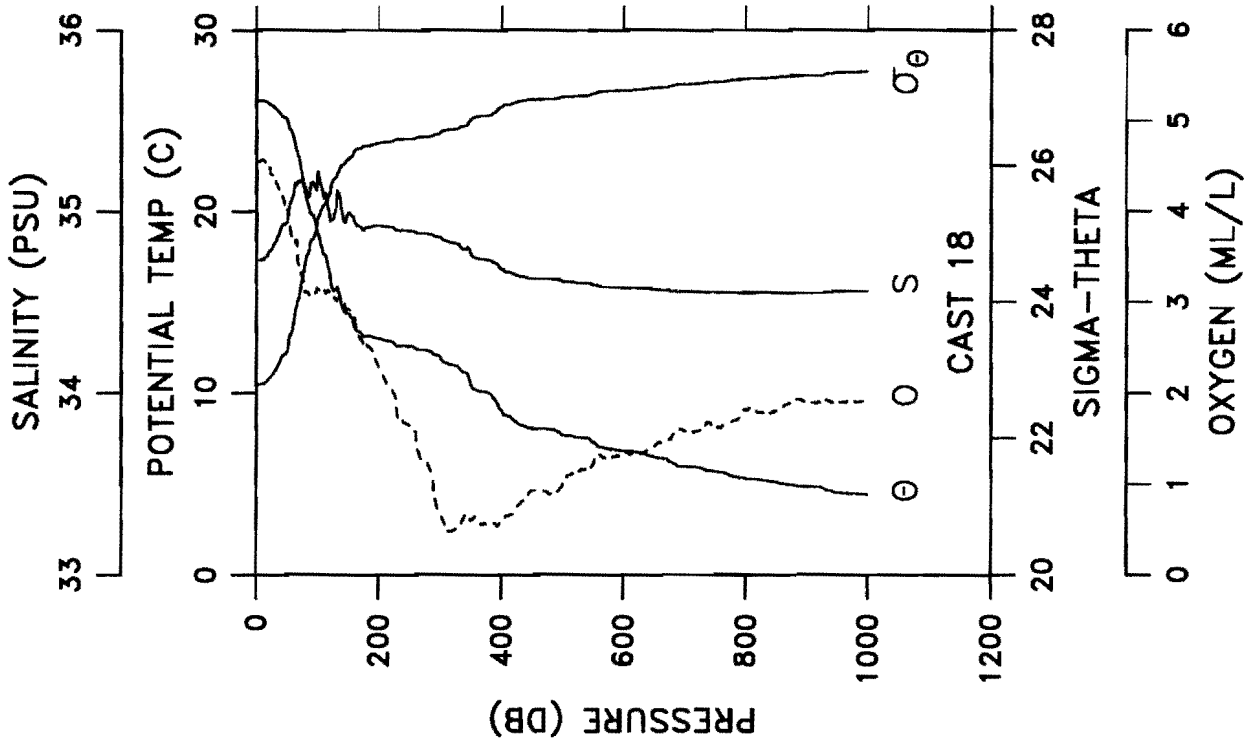


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.864 | 34.934 | 4.54 | 22.714 | 0.000 |
| 10 | 26.865 | 34.933 | 4.60 | 22.712 | 0.051 |
| 20 | 26.839 | 34.945 | 4.57 | 22.730 | 0.103 |
| 30 | 26.616 | 35.011 | 4.46 | 22.850 | 0.153 |
| 40 | 26.338 | 35.082 | 4.35 | 22.991 | 0.203 |
| 50 | 26.094 | 35.116 | 4.22 | 23.093 | 0.251 |
| 60 | 25.670 | 35.134 | 3.89 | 23.239 | 0.298 |
| 70 | 24.792 | 35.164 | 3.65 | 23.530 | 0.344 |
| 80 | 23.304 | 35.189 | 3.27 | 23.990 | 0.385 |
| 90 | 21.043 | 35.112 | 3.09 | 24.569 | 0.422 |
| 100 | 19.291 | 35.203 | 3.08 | 25.103 | 0.453 |
| 110 | 17.950 | 35.122 | 3.15 | 25.379 | 0.481 |
| 120 | 16.815 | 35.044 | 3.10 | 25.593 | 0.506 |
| 130 | 16.247 | 35.023 | 3.04 | 25.709 | 0.530 |
| 140 | 15.641 | 35.005 | 2.99 | 25.834 | 0.552 |
| 150 | 14.890 | 35.037 | 2.93 | 26.025 | 0.573 |
| 160 | 14.274 | 35.012 | 2.88 | 26.139 | 0.593 |
| 170 | 13.715 | 34.944 | 2.80 | 26.204 | 0.612 |
| 180 | 13.185 | 34.931 | 2.69 | 26.303 | 0.630 |
| 190 | 12.935 | 34.909 | 2.42 | 26.336 | 0.647 |
| 200 | 12.744 | 34.911 | 2.18 | 26.375 | 0.665 |
| 205 | 12.674 | 34.904 | 2.00 | 26.384 | 0.673 |

CAST EP2-87-OC -018 DATE 17 OCT 87 TIME 1348 GMT
LAT 00 00.7S LONG 129 59.1W

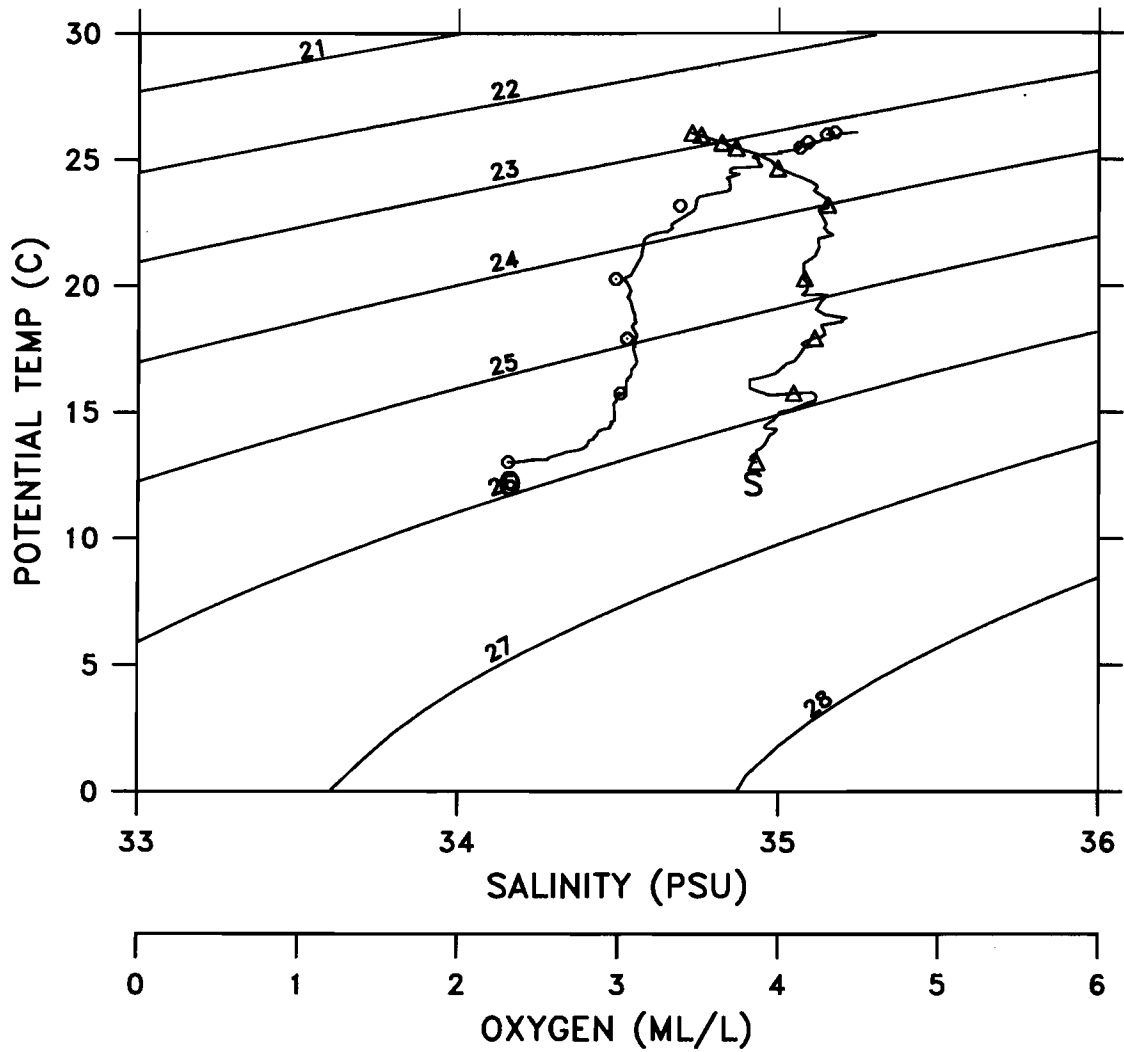


CAST EP2-87-0C-018 DATE 17 OCT 87 TIME 1348 GMT
 LAT 00 00.7S LONG 129 59.1W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 110 T SPD 14 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 25.0 WET 23.0 DEPTH 4437 M

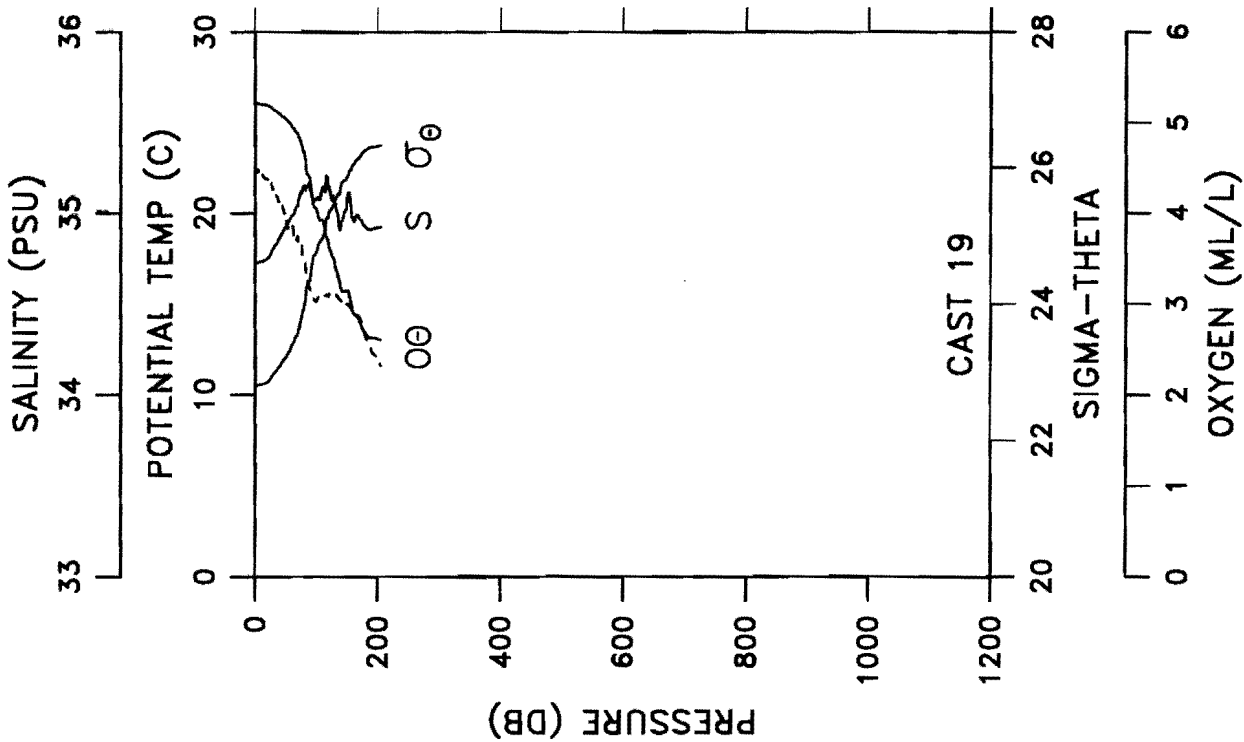


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 26.119 | 34.729 | 4.34 | 22.793 | 0.000 |
| 10 | 26.109 | 34.732 | 4.57 | 22.798 | 0.051 |
| 20 | 25.947 | 34.777 | 4.47 | 22.884 | 0.101 |
| 30 | 25.714 | 34.829 | 4.37 | 22.995 | 0.150 |
| 40 | 25.351 | 34.905 | 4.18 | 23.164 | 0.198 |
| 50 | 25.104 | 34.937 | 4.04 | 23.264 | 0.245 |
| 60 | 24.184 | 35.094 | 3.70 | 23.659 | 0.289 |
| 70 | 22.866 | 35.169 | 3.42 | 24.102 | 0.329 |
| 80 | 20.917 | 35.132 | 3.13 | 24.618 | 0.365 |
| 90 | 19.855 | 35.155 | 3.09 | 24.919 | 0.397 |
| 100 | 18.799 | 35.217 | 3.15 | 25.239 | 0.427 |
| 110 | 17.627 | 35.073 | 3.14 | 25.421 | 0.453 |
| 120 | 16.487 | 34.945 | 3.11 | 25.594 | 0.479 |
| 130 | 15.737 | 35.039 | 3.02 | 25.839 | 0.501 |
| 140 | 14.767 | 34.988 | 3.01 | 26.014 | 0.522 |
| 150 | 14.372 | 34.992 | 2.92 | 26.102 | 0.542 |
| 160 | 13.669 | 34.946 | 2.82 | 26.215 | 0.561 |
| 170 | 13.351 | 34.917 | 2.59 | 26.258 | 0.579 |
| 180 | 13.141 | 34.911 | 2.53 | 26.296 | 0.597 |
| 190 | 13.088 | 34.919 | 2.46 | 26.313 | 0.615 |
| 200 | 13.004 | 34.923 | 2.31 | 26.333 | 0.632 |
| 250 | 12.576 | 34.892 | 1.65 | 26.394 | 0.717 |
| 300 | 12.026 | 34.859 | 0.65 | 26.475 | 0.801 |
| 350 | 10.485 | 34.767 | 0.60 | 26.686 | 0.878 |
| 400 | 9.017 | 34.683 | 0.60 | 26.868 | 0.947 |
| 450 | 8.052 | 34.630 | 0.93 | 26.976 | 1.006 |
| 500 | 7.696 | 34.613 | 0.98 | 27.015 | 1.064 |
| 550 | 7.288 | 34.596 | 1.21 | 27.060 | 1.120 |
| 600 | 6.819 | 34.578 | 1.32 | 27.111 | 1.172 |
| 650 | 6.505 | 34.570 | 1.40 | 27.147 | 1.224 |
| 700 | 5.971 | 34.557 | 1.58 | 27.207 | 1.273 |
| 750 | 5.696 | 34.555 | 1.64 | 27.239 | 1.320 |
| 800 | 5.317 | 34.551 | 1.81 | 27.282 | 1.365 |
| 900 | 4.881 | 34.551 | 1.89 | 27.333 | 1.451 |
| 1000 | 4.423 | 34.560 | 1.90 | 27.391 | 1.532 |
| 1500 | 2.847 | 34.611 | 2.13 | 27.589 | 1.872 |
| 2000 | 2.091 | 34.647 | 2.46 | 27.682 | 2.148 |
| 2500 | 1.713 | 34.666 | 2.78 | 27.726 | 2.394 |
| 3000 | 1.461 | 34.678 | 3.10 | 27.755 | 2.625 |
| 3500 | 1.247 | 34.690 | 3.46 | 27.780 | 2.848 |
| 4000 | 1.104 | 34.698 | 3.76 | 27.795 | 3.063 |
| 4500 | 1.099 | 34.697 | 3.82 | 27.795 | 3.283 |
| 4500 | 1.099 | 34.697 | 3.82 | 27.795 | 3.283 |

CAST EP2-87-OC -019 DATE 17 OCT 87 TIME 1625 GMT
LAT 00 01.6S LONG 129 59.3W

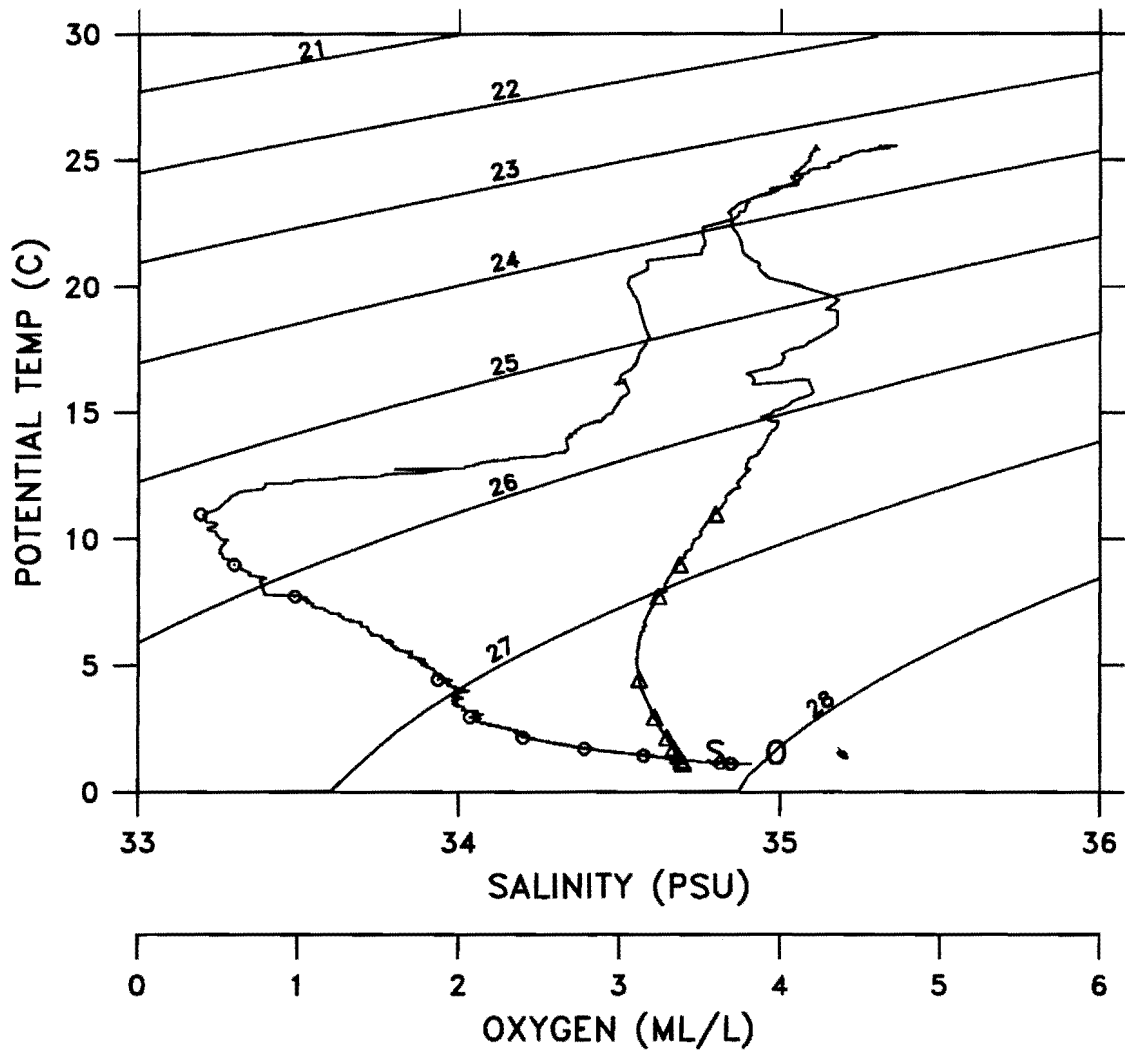


CAST EP2-87-OC -019 DATE 17 OCT 87 TIME 1625 GMT
 LAT 00 01.6S LONG 129 59.3W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 105 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 26.0 WET 25.0 DEPTH 4437 M

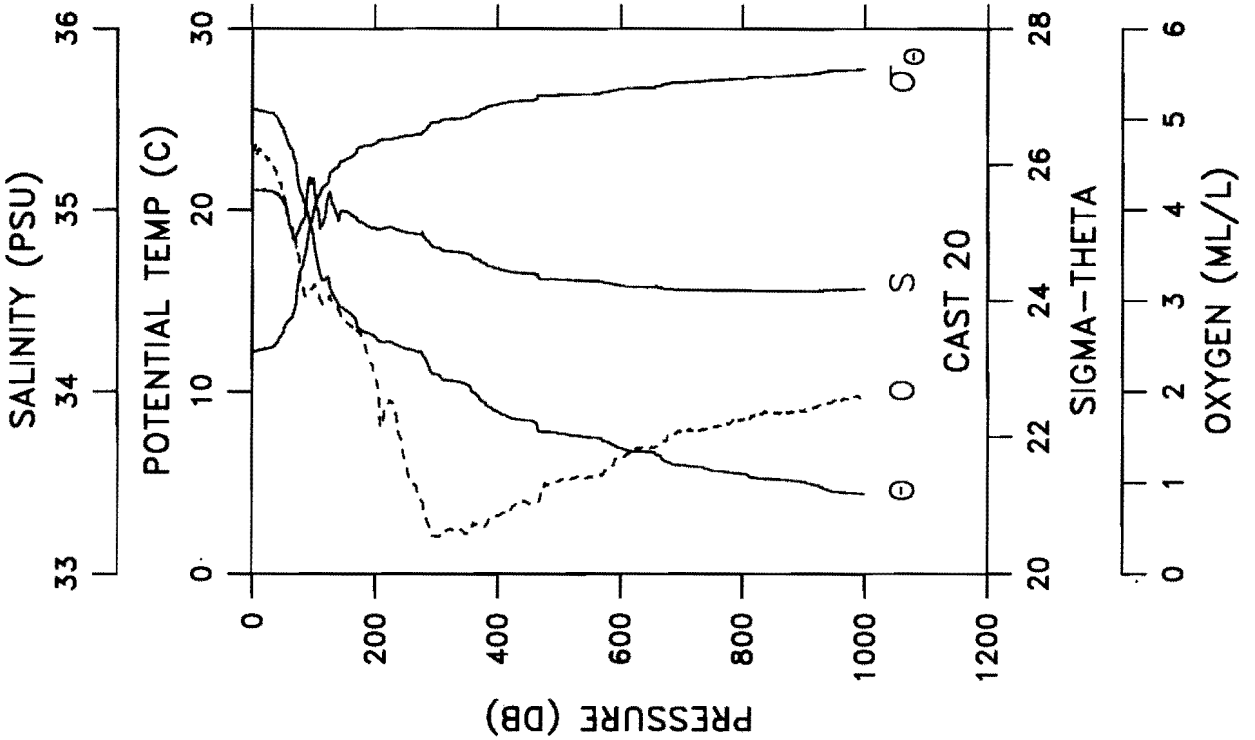


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.068 | 34.726 | 4.47 | 22.808 | 0.000 |
| 10 | 26.033 | 34.735 | 4.41 | 22.825 | 0.050 |
| 20 | 25.962 | 34.754 | 4.37 | 22.861 | 0.101 |
| 30 | 25.734 | 34.809 | 4.26 | 22.974 | 0.150 |
| 40 | 25.500 | 34.863 | 4.12 | 23.087 | 0.198 |
| 50 | 25.239 | 34.923 | 4.01 | 23.212 | 0.246 |
| 60 | 24.761 | 34.986 | 3.89 | 23.405 | 0.292 |
| 70 | 24.269 | 35.072 | 3.67 | 23.618 | 0.336 |
| 80 | 23.336 | 35.150 | 3.48 | 23.952 | 0.377 |
| 90 | 21.859 | 35.123 | 3.16 | 24.352 | 0.414 |
| 100 | 20.249 | 35.080 | 3.03 | 24.758 | 0.448 |
| 110 | 19.636 | 35.150 | 3.06 | 24.973 | 0.479 |
| 120 | 18.258 | 35.140 | 3.09 | 25.317 | 0.507 |
| 130 | 17.241 | 35.062 | 3.10 | 25.505 | 0.533 |
| 140 | 15.821 | 34.936 | 3.04 | 25.740 | 0.557 |
| 150 | 15.757 | 35.077 | 3.00 | 25.863 | 0.580 |
| 160 | 14.557 | 34.966 | 2.96 | 26.043 | 0.600 |
| 170 | 14.138 | 34.973 | 2.86 | 26.138 | 0.620 |
| 180 | 13.396 | 34.930 | 2.65 | 26.259 | 0.639 |
| 190 | 13.132 | 34.912 | 2.48 | 26.299 | 0.656 |
| 200 | 13.076 | 34.920 | 2.41 | 26.316 | 0.674 |
| 205 | 13.036 | 34.923 | 2.32 | 26.327 | 0.683 |

CAST EP2-87-OC -020 DATE 19 OCT 87 TIME 1421 GMT
LAT 00 10.0N LONG 124 22.6W

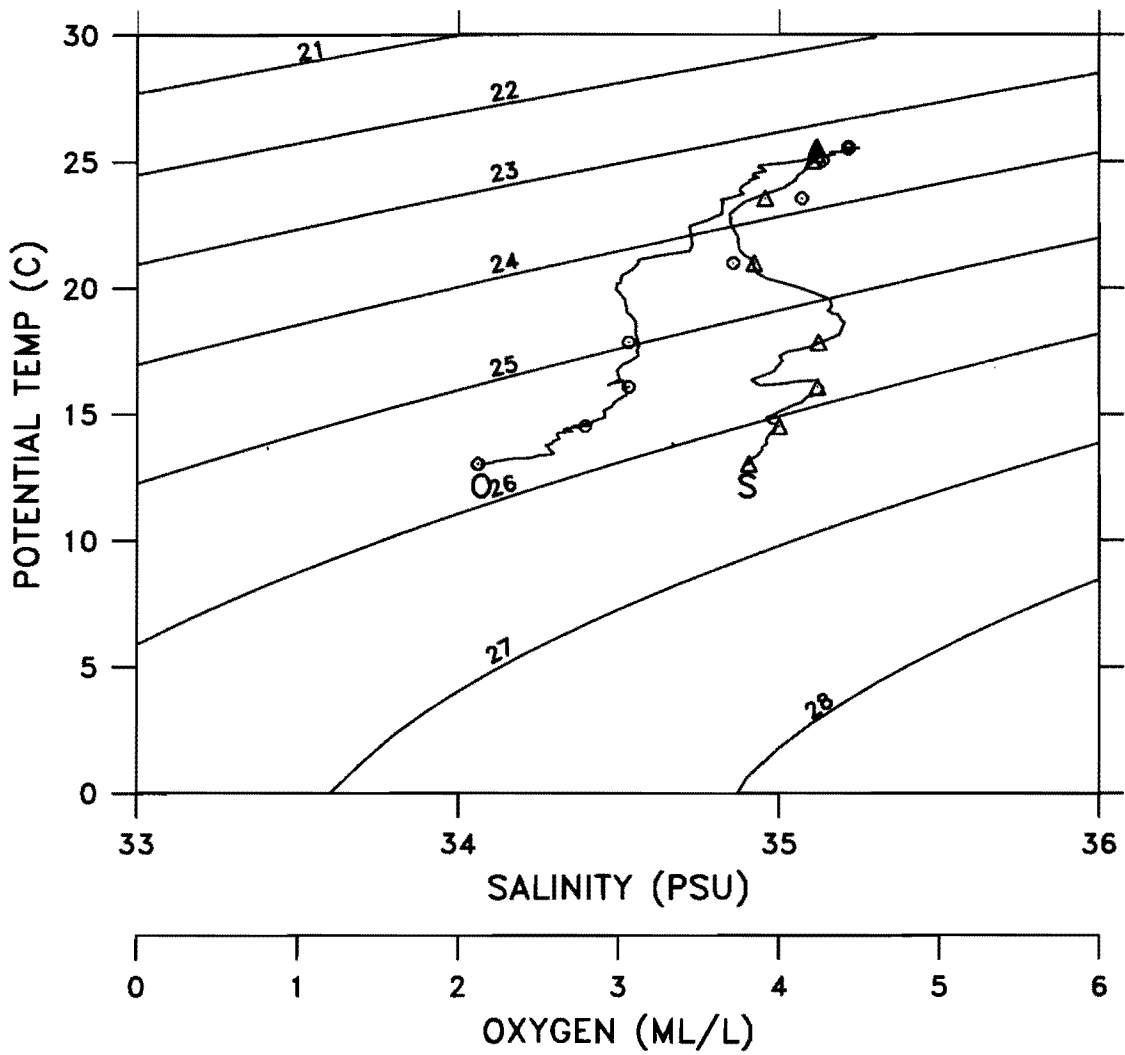


CAST EP2-87-OC -020 DATE 19 OCT 87 TIME 1421 GMT
 LAT 00 10.0N LONG 124 22.6W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 100 T SPD 16 KT VISIBILITY 9
 CLOUD 8 AMOUNT 4 DRY 25.0 WET 23.8 DEPTH 4576 M

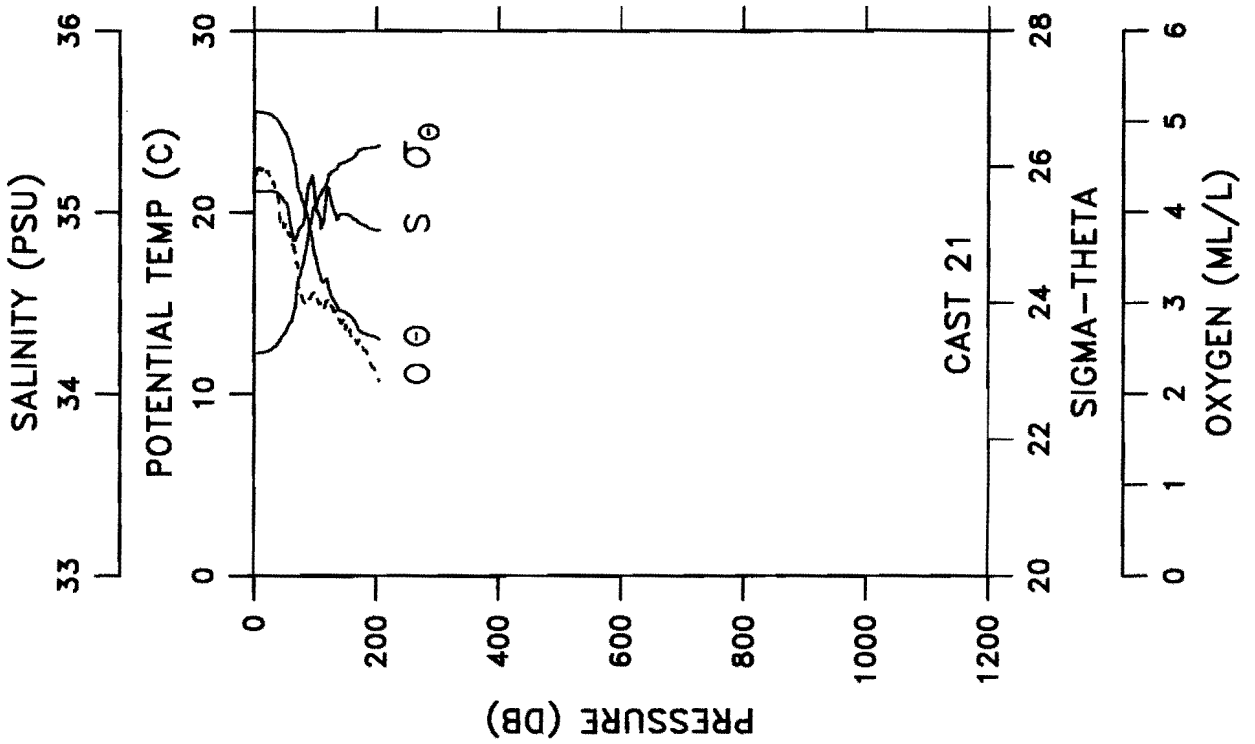


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.531 | 35.110 | 4.68 | 23.264 | 0.000 |
| 10 | 25.490 | 35.108 | 4.66 | 23.275 | 0.046 |
| 20 | 25.404 | 35.118 | 4.60 | 23.309 | 0.092 |
| 30 | 25.343 | 35.103 | 4.52 | 23.316 | 0.138 |
| 40 | 25.103 | 35.088 | 4.38 | 23.378 | 0.183 |
| 50 | 24.526 | 35.051 | 4.17 | 23.525 | 0.228 |
| 60 | 23.592 | 34.934 | 3.89 | 23.713 | 0.270 |
| 70 | 22.660 | 34.844 | 3.71 | 23.914 | 0.312 |
| 80 | 20.893 | 34.933 | 3.17 | 24.473 | 0.349 |
| 90 | 19.838 | 35.098 | 3.07 | 24.880 | 0.382 |
| 100 | 18.408 | 35.173 | 3.15 | 25.304 | 0.411 |
| 110 | 16.538 | 34.893 | 3.02 | 25.542 | 0.436 |
| 120 | 16.176 | 34.999 | 3.03 | 25.708 | 0.460 |
| 130 | 15.423 | 35.033 | 2.99 | 25.905 | 0.482 |
| 140 | 14.816 | 34.938 | 2.91 | 25.965 | 0.503 |
| 150 | 14.547 | 34.991 | 2.81 | 26.064 | 0.523 |
| 160 | 14.302 | 34.978 | 2.72 | 26.107 | 0.543 |
| 170 | 13.771 | 34.950 | 2.67 | 26.197 | 0.562 |
| 180 | 13.354 | 34.932 | 2.57 | 26.269 | 0.580 |
| 190 | 13.211 | 34.906 | 2.37 | 26.278 | 0.598 |
| 200 | 13.040 | 34.900 | 2.16 | 26.308 | 0.616 |
| 250 | 12.363 | 34.876 | 1.22 | 26.423 | 0.701 |
| 300 | 10.954 | 34.791 | 0.41 | 26.622 | 0.781 |
| 350 | 10.384 | 34.758 | 0.44 | 26.697 | 0.853 |
| 400 | 8.903 | 34.677 | 0.64 | 26.881 | 0.919 |
| 450 | 8.414 | 34.651 | 0.78 | 26.937 | 0.979 |
| 500 | 7.697 | 34.616 | 1.02 | 27.017 | 1.037 |
| 550 | 7.487 | 34.607 | 1.07 | 27.041 | 1.092 |
| 600 | 6.905 | 34.584 | 1.28 | 27.104 | 1.147 |
| 650 | 6.686 | 34.576 | 1.39 | 27.128 | 1.198 |
| 700 | 5.976 | 34.560 | 1.55 | 27.208 | 1.247 |
| 750 | 5.680 | 34.558 | 1.60 | 27.243 | 1.294 |
| 800 | 5.503 | 34.554 | 1.68 | 27.262 | 1.340 |
| 900 | 5.029 | 34.554 | 1.78 | 27.319 | 1.427 |
| 1000 | 4.372 | 34.562 | 1.92 | 27.399 | 1.508 |
| 1500 | 2.929 | 34.609 | 2.11 | 27.580 | 1.844 |
| 2000 | 2.128 | 34.648 | 2.43 | 27.679 | 2.122 |
| 2500 | 1.697 | 34.668 | 2.83 | 27.729 | 2.367 |
| 3000 | 1.425 | 34.681 | 3.17 | 27.759 | 2.595 |
| 3500 | 1.224 | 34.693 | 3.46 | 27.783 | 2.816 |
| 4000 | 1.118 | 34.698 | 3.73 | 27.795 | 3.029 |
| 4500 | 1.110 | 34.698 | 3.79 | 27.795 | 3.250 |
| 4620 | 1.110 | 34.698 | 3.78 | 27.795 | 3.505 |

CAST EP2-87-OC -021 DATE 19 OCT 87 TIME 1702 GMT
LAT 00 09.8N LONG 124 21.7W

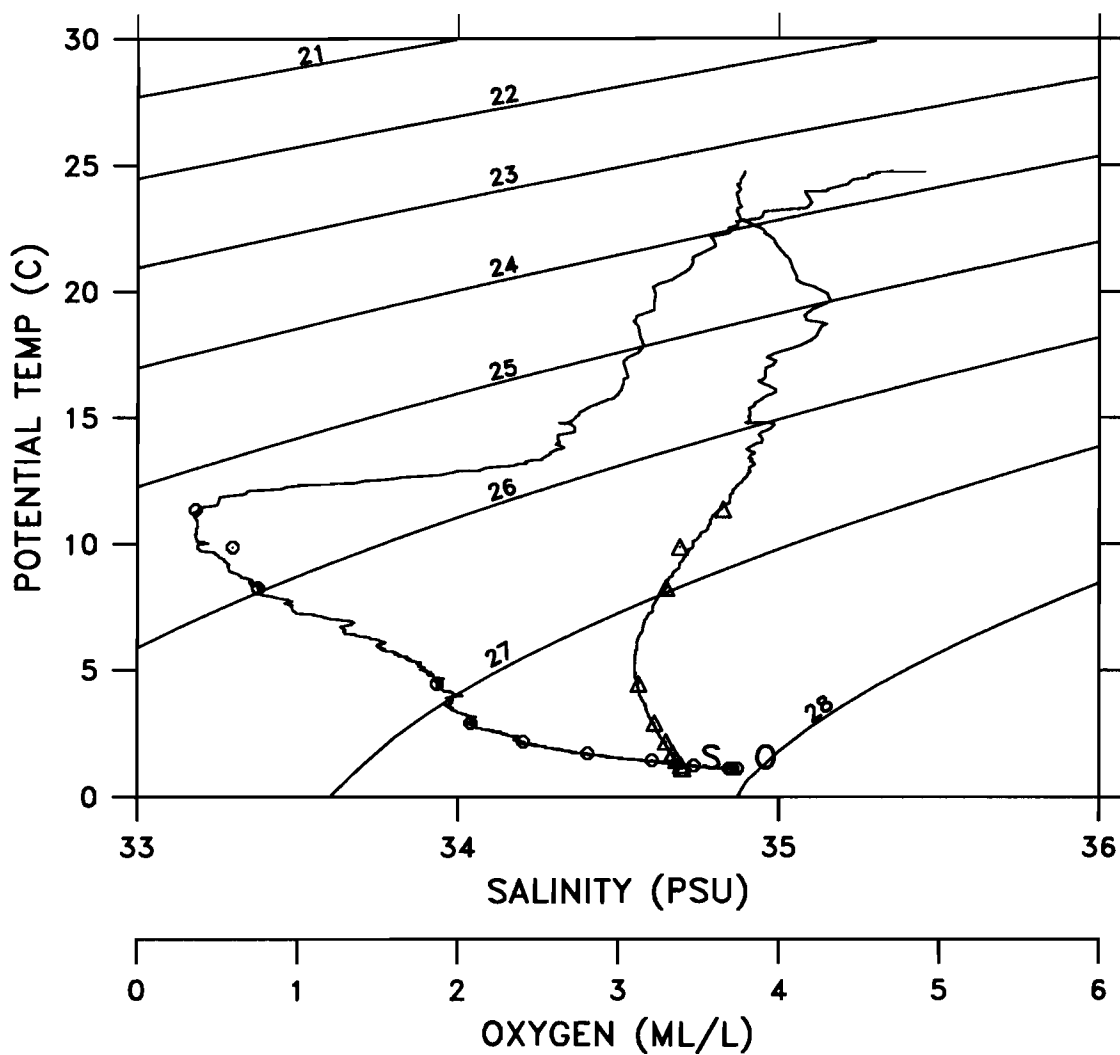


CAST EP2-87-OC -021 DATE 19 OCT 87 TIME 1702 GMT
 LAT 00 09.8N LONG 124 21.7W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 090 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 26.1 WET 23.4 DEPTH 4576 M

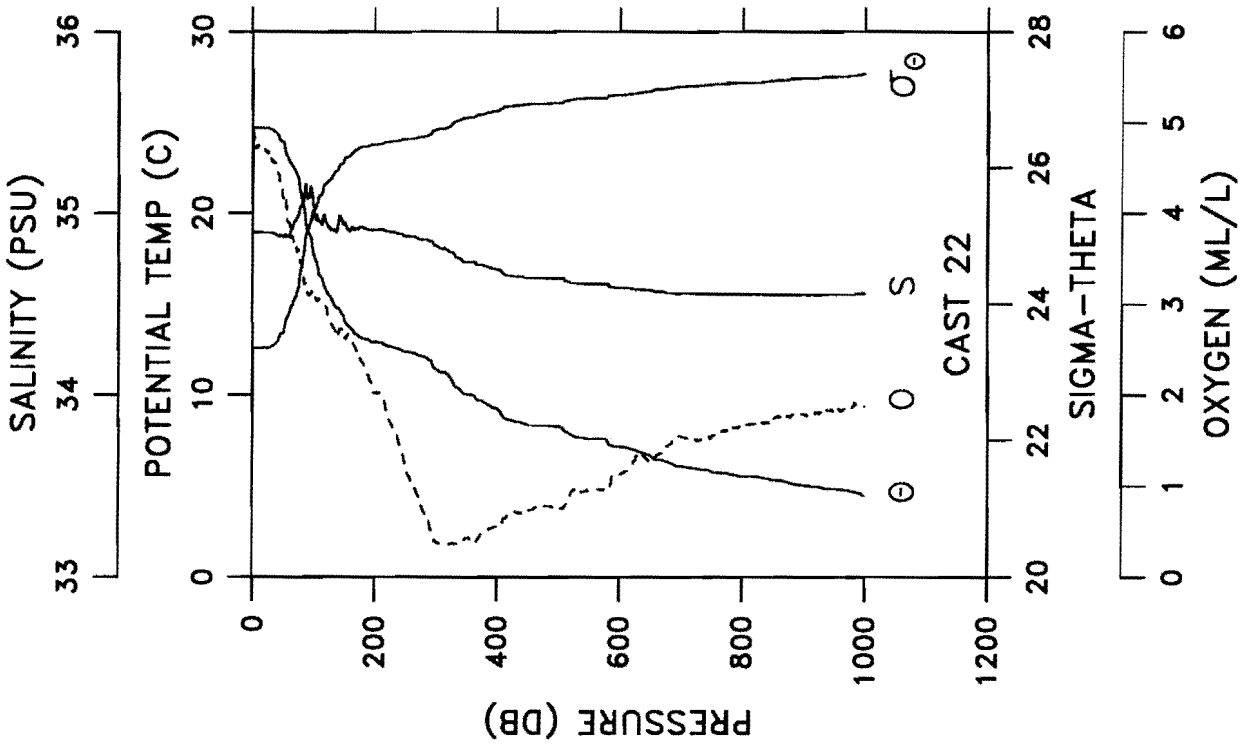


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.538 | 35.116 | 4.41 | 23.266 | 0.000 |
| 10 | 25.511 | 35.115 | 4.49 | 23.274 | 0.046 |
| 20 | 25.465 | 35.116 | 4.44 | 23.289 | 0.092 |
| 30 | 25.338 | 35.117 | 4.32 | 23.328 | 0.138 |
| 40 | 25.032 | 35.105 | 4.15 | 23.413 | 0.183 |
| 50 | 24.423 | 35.056 | 3.83 | 23.559 | 0.227 |
| 60 | 23.539 | 34.924 | 3.69 | 23.721 | 0.270 |
| 70 | 21.661 | 34.871 | 3.45 | 24.215 | 0.310 |
| 80 | 20.544 | 34.933 | 3.03 | 24.567 | 0.345 |
| 90 | 19.282 | 35.163 | 3.04 | 25.075 | 0.377 |
| 100 | 17.559 | 35.061 | 3.12 | 25.428 | 0.404 |
| 110 | 16.275 | 34.922 | 2.98 | 25.625 | 0.429 |
| 120 | 16.224 | 35.123 | 3.03 | 25.792 | 0.452 |
| 130 | 15.150 | 35.008 | 2.91 | 25.946 | 0.474 |
| 140 | 14.589 | 34.987 | 2.81 | 26.050 | 0.494 |
| 150 | 14.488 | 34.989 | 2.76 | 26.076 | 0.514 |
| 160 | 14.212 | 34.970 | 2.61 | 26.120 | 0.533 |
| 170 | 13.560 | 34.946 | 2.57 | 26.238 | 0.552 |
| 180 | 13.338 | 34.930 | 2.49 | 26.271 | 0.570 |
| 190 | 13.227 | 34.911 | 2.34 | 26.279 | 0.588 |
| 200 | 13.116 | 34.901 | 2.23 | 26.294 | 0.606 |
| 205 | 12.999 | 34.900 | 2.14 | 26.316 | 0.615 |

CAST EP2-87-OC -022 DATE 20 OCT 87 TIME 1350 GMT
LAT 00 00.8S LONG 119 59.5W

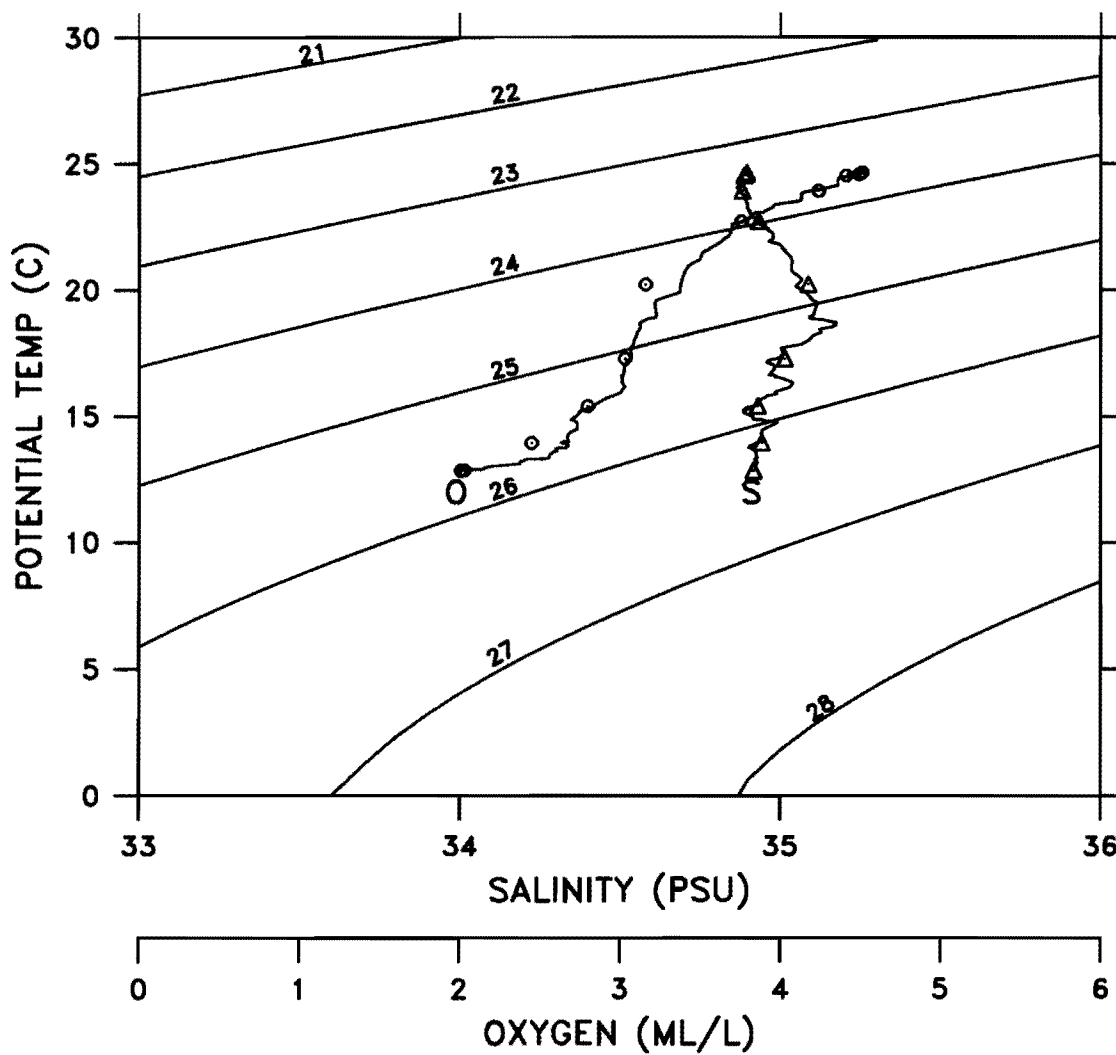


CAST EP2-87-0C -022 DATE 20 OCT 87 TIME 1350 GMT
 LAT 00 00.8S LONG 119 59.5W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 130 T SPD 12 KT VISIBILITY 9
 CLOUD 7 AMOUNT 6 DRY 24.2 WET 22.5 DEPTH 4175 M

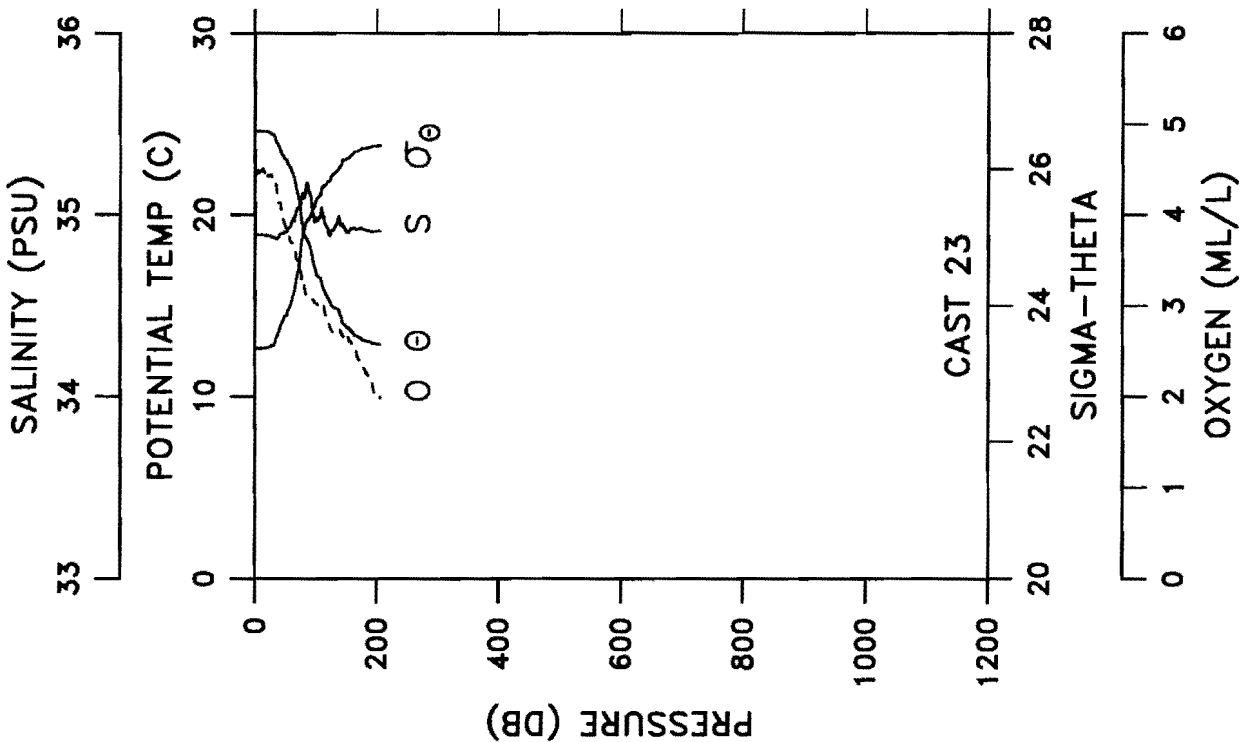


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.716 | 34.896 | 4.91 | 23.350 | 0.000 |
| 10 | 24.720 | 34.895 | 4.75 | 23.349 | 0.045 |
| 20 | 24.685 | 34.894 | 4.70 | 23.358 | 0.091 |
| 30 | 24.645 | 34.893 | 4.60 | 23.369 | 0.136 |
| 40 | 24.394 | 34.879 | 4.46 | 23.434 | 0.181 |
| 50 | 23.935 | 34.875 | 4.16 | 23.567 | 0.224 |
| 60 | 22.889 | 34.877 | 3.88 | 23.874 | 0.266 |
| 70 | 22.321 | 34.958 | 3.69 | 24.097 | 0.306 |
| 80 | 20.906 | 35.042 | 3.44 | 24.553 | 0.342 |
| 90 | 19.026 | 35.079 | 3.11 | 25.076 | 0.374 |
| 100 | 17.693 | 35.028 | 3.14 | 25.370 | 0.401 |
| 110 | 16.539 | 34.954 | 3.03 | 25.588 | 0.427 |
| 120 | 15.758 | 34.949 | 2.97 | 25.764 | 0.450 |
| 130 | 15.191 | 34.910 | 2.76 | 25.861 | 0.473 |
| 140 | 14.791 | 34.944 | 2.63 | 25.975 | 0.494 |
| 150 | 14.135 | 34.949 | 2.62 | 26.120 | 0.514 |
| 160 | 13.702 | 34.903 | 2.61 | 26.175 | 0.533 |
| 170 | 13.312 | 34.918 | 2.48 | 26.267 | 0.551 |
| 180 | 13.108 | 34.923 | 2.36 | 26.313 | 0.569 |
| 190 | 13.026 | 34.908 | 2.20 | 26.317 | 0.586 |
| 200 | 12.892 | 34.908 | 2.02 | 26.344 | 0.603 |
| 250 | 12.378 | 34.876 | 1.22 | 26.420 | 0.688 |
| 300 | 11.430 | 34.822 | 0.38 | 26.558 | 0.770 |
| 350 | 10.041 | 34.731 | 0.43 | 26.735 | 0.843 |
| 400 | 9.243 | 34.691 | 0.55 | 26.837 | 0.910 |
| 450 | 8.362 | 34.644 | 0.71 | 26.940 | 0.971 |
| 500 | 8.237 | 34.640 | 0.76 | 26.955 | 1.031 |
| 550 | 7.591 | 34.609 | 0.94 | 27.028 | 1.088 |
| 600 | 7.147 | 34.591 | 1.13 | 27.076 | 1.143 |
| 650 | 6.686 | 34.577 | 1.27 | 27.128 | 1.196 |
| 700 | 6.074 | 34.558 | 1.55 | 27.194 | 1.246 |
| 750 | 5.781 | 34.553 | 1.54 | 27.227 | 1.293 |
| 800 | 5.534 | 34.551 | 1.67 | 27.256 | 1.340 |
| 850 | 5.026 | 34.552 | 1.79 | 27.317 | 1.429 |
| 900 | 4.468 | 34.557 | 1.88 | 27.384 | 1.512 |
| 1000 | 2.902 | 34.609 | 2.08 | 27.582 | 1.855 |
| 1500 | 2.162 | 34.664 | 2.38 | 27.672 | 2.132 |
| 2000 | 1.711 | 34.664 | 2.78 | 27.725 | 2.382 |
| 2500 | 1.438 | 34.676 | 3.13 | 27.755 | 2.612 |
| 3000 | 1.231 | 34.688 | 3.46 | 27.779 | 2.835 |
| 3500 | 1.120 | 34.694 | 3.70 | 27.791 | 3.050 |
| 4000 | 1.118 | 34.694 | 3.72 | 27.792 | 3.142 |
| 4210 | | | | | |

CAST EP2-87-OC -023 DATE 20 OCT 87 TIME 1603 GMT
LAT 00 00.9N LONG 119 59.0W

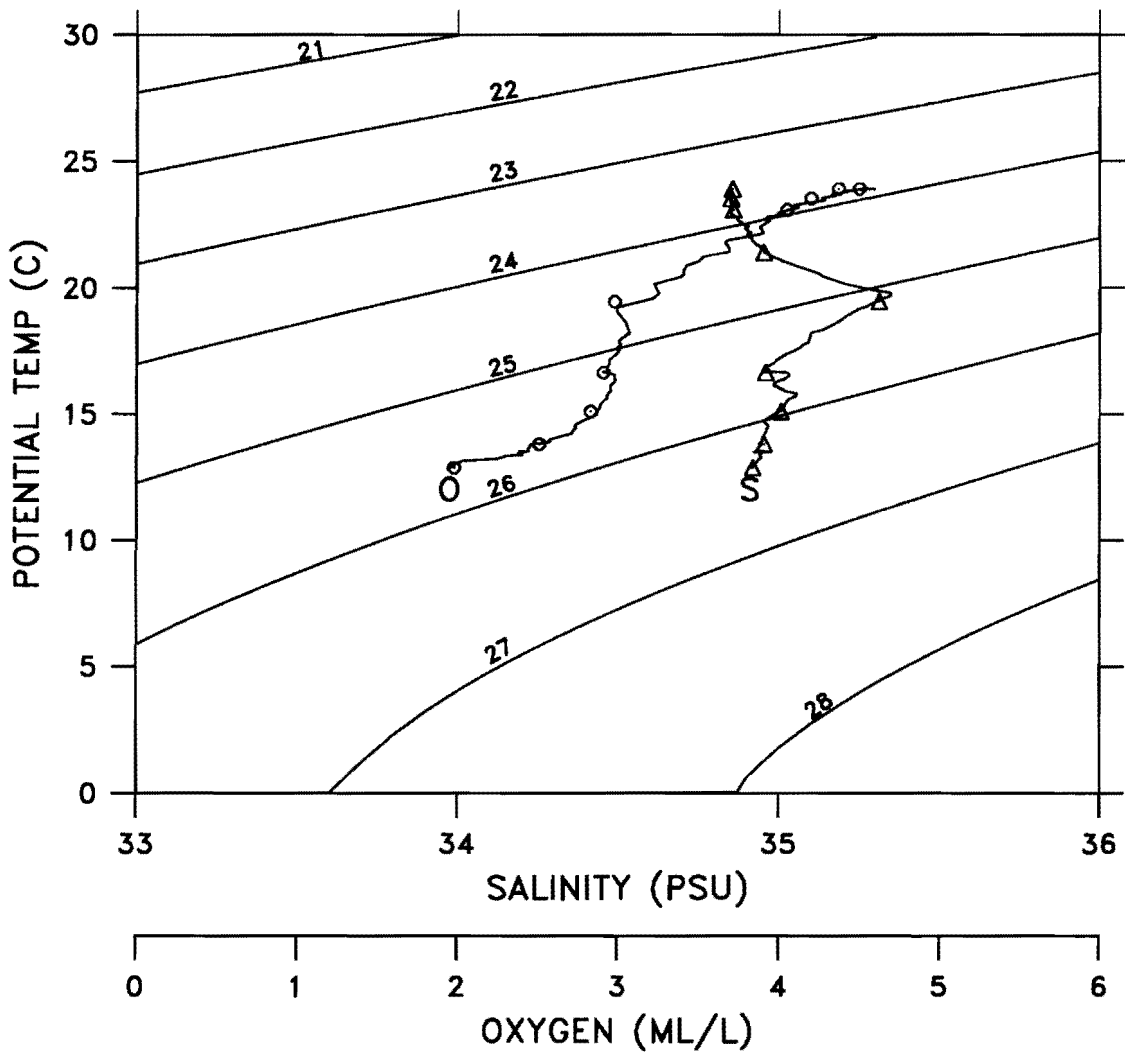


CAST EP2-87-OC -023 DATE 20 OCT 87 TIME 1603 GMT
 LAT 00 00.9N LONG 119 59.0W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 130 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 25.0 WET 23.0 DEPTH 4175 M

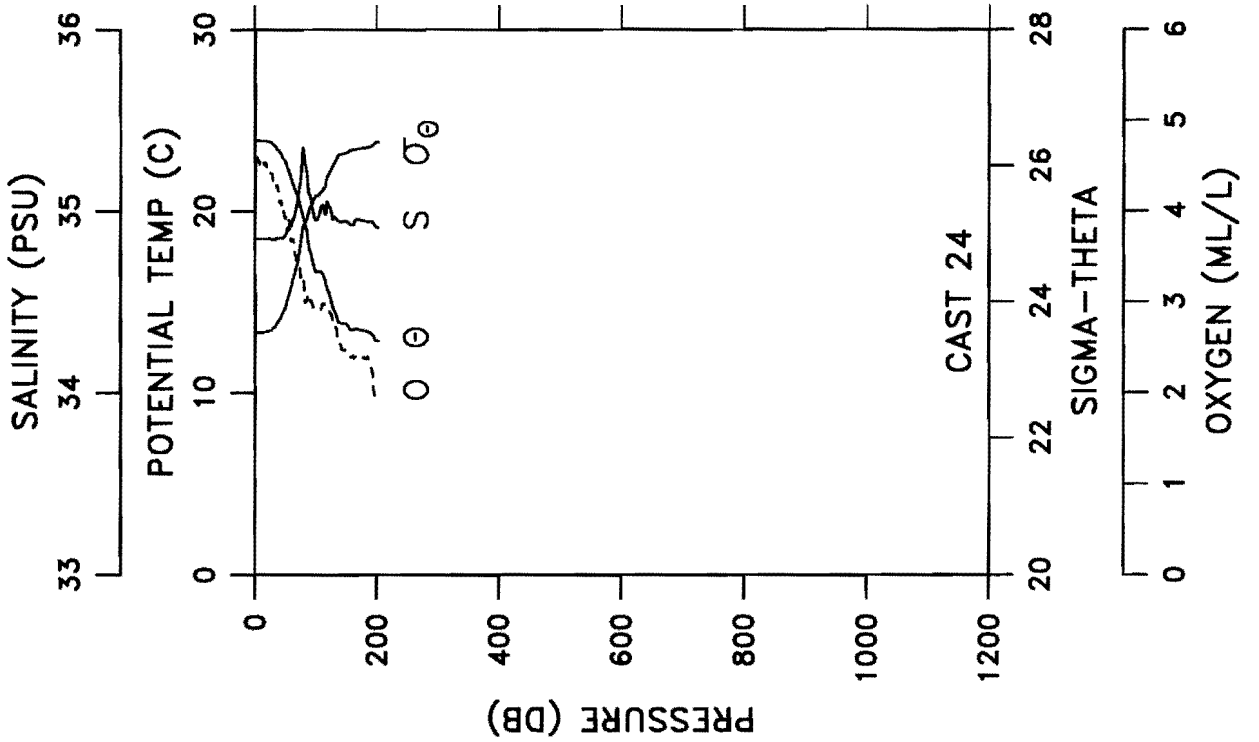


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.635 | 34.892 | 4.47 | 23.372 | 0.000 |
| 10 | 24.631 | 34.891 | 4.48 | 23.372 | 0.045 |
| 20 | 24.591 | 34.887 | 4.50 | 23.381 | 0.090 |
| 30 | 24.442 | 34.877 | 4.38 | 23.418 | 0.135 |
| 40 | 23.719 | 34.888 | 4.13 | 23.641 | 0.179 |
| 50 | 23.046 | 34.907 | 3.87 | 23.851 | 0.220 |
| 60 | 22.417 | 34.963 | 3.70 | 24.074 | 0.260 |
| 70 | 21.170 | 35.037 | 3.49 | 24.477 | 0.297 |
| 80 | 19.006 | 35.103 | 3.23 | 25.099 | 0.329 |
| 90 | 18.312 | 35.127 | 3.11 | 25.293 | 0.357 |
| 100 | 16.884 | 34.981 | 3.02 | 25.528 | 0.383 |
| 110 | 16.160 | 35.030 | 3.03 | 25.735 | 0.407 |
| 120 | 15.412 | 34.922 | 2.84 | 25.822 | 0.429 |
| 130 | 14.873 | 34.923 | 2.69 | 25.941 | 0.451 |
| 140 | 14.491 | 34.948 | 2.73 | 26.043 | 0.471 |
| 150 | 13.832 | 34.904 | 2.68 | 26.149 | 0.491 |
| 160 | 13.541 | 34.924 | 2.58 | 26.225 | 0.508 |
| 170 | 13.281 | 34.923 | 2.41 | 26.277 | 0.527 |
| 180 | 13.071 | 34.918 | 2.29 | 26.316 | 0.545 |
| 190 | 12.977 | 34.908 | 2.16 | 26.327 | 0.562 |
| 200 | 12.886 | 34.908 | 2.02 | 26.345 | 0.580 |
| 206 | 12.860 | 34.908 | 1.98 | 26.351 | 0.590 |

CAST EP2-87-OC -024 DATE 21 OCT 87 TIME 1433 GMT
LAT 00 00.5N LONG 114 59.6W

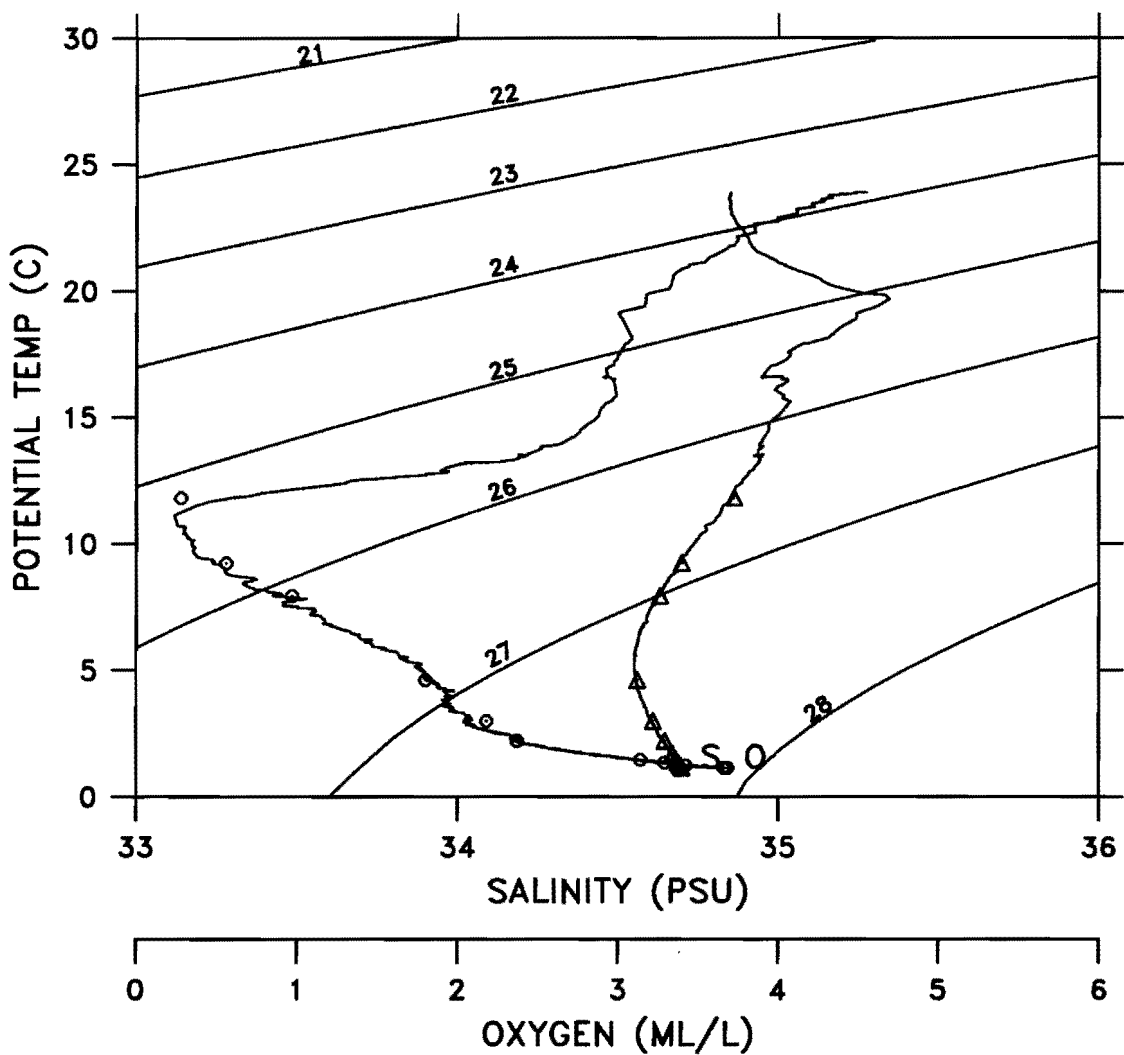


CAST EP2-87-0C -024 DATE 21 OCT 87 TIME 1433 GMT
 LAT 00 00.5N LONG 114 59.6W WEATHER 2 SEA STATE 2
 BAROMETER 12 WIND DIR 100 T SPD 16 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 24.0 WET 22.5 DEPTH 3955 M

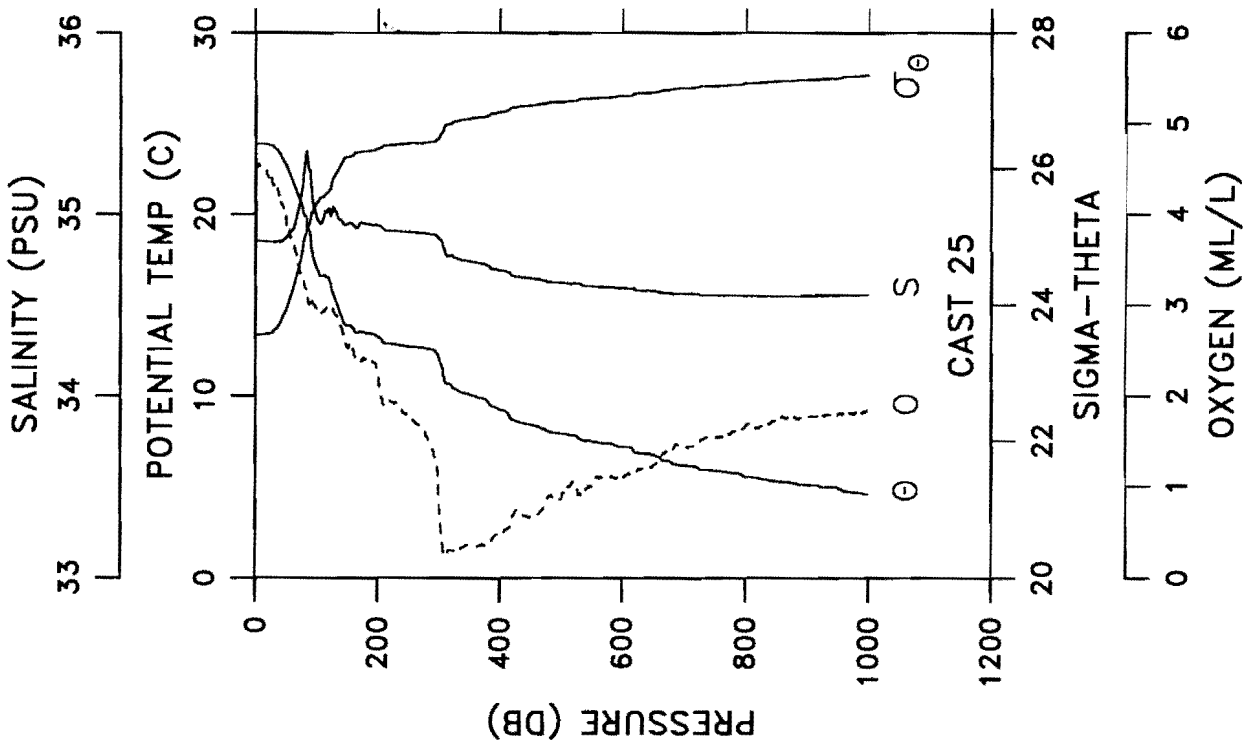


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D |
|-----------|--------------|-----------|------------|----------------|---------|
| 0 | 23.904 | 34.849 | 4.59 | 23.557 | 0.000 |
| 10 | 23.900 | 34.849 | 4.53 | 23.558 | 0.043 |
| 20 | 23.861 | 34.848 | 4.48 | 23.569 | 0.087 |
| 30 | 23.667 | 34.843 | 4.33 | 23.622 | 0.130 |
| 40 | 23.268 | 34.852 | 4.09 | 23.745 | 0.172 |
| 50 | 22.688 | 34.871 | 3.92 | 23.927 | 0.213 |
| 60 | 21.702 | 34.925 | 3.67 | 24.245 | 0.251 |
| 70 | 20.790 | 35.068 | 3.42 | 24.604 | 0.286 |
| 80 | 19.556 | 35.321 | 3.21 | 25.124 | 0.317 |
| 90 | 17.828 | 35.092 | 3.01 | 25.386 | 0.345 |
| 100 | 16.649 | 34.950 | 2.92 | 25.559 | 0.370 |
| 110 | 16.595 | 35.031 | 2.96 | 25.634 | 0.394 |
| 120 | 15.629 | 35.039 | 2.93 | 25.863 | 0.417 |
| 130 | 14.593 | 34.963 | 2.74 | 26.033 | 0.438 |
| 140 | 13.852 | 34.940 | 2.54 | 26.172 | 0.457 |
| 150 | 13.805 | 34.946 | 2.46 | 26.187 | 0.476 |
| 160 | 13.481 | 34.923 | 2.39 | 26.236 | 0.494 |
| 170 | 13.514 | 34.954 | 2.40 | 26.254 | 0.512 |
| 180 | 13.436 | 34.947 | 2.39 | 26.264 | 0.530 |
| 190 | 13.306 | 34.944 | 2.29 | 26.288 | 0.548 |
| 200 | 12.876 | 34.910 | 1.95 | 26.349 | 0.566 |
| 203 | 12.873 | 34.910 | 1.95 | 26.349 | 0.571 |

CAST EP2-87-OC -025 DATE 21 OCT 87 TIME 1653 GMT
LAT 00 00.7N LONG 114 58.2W

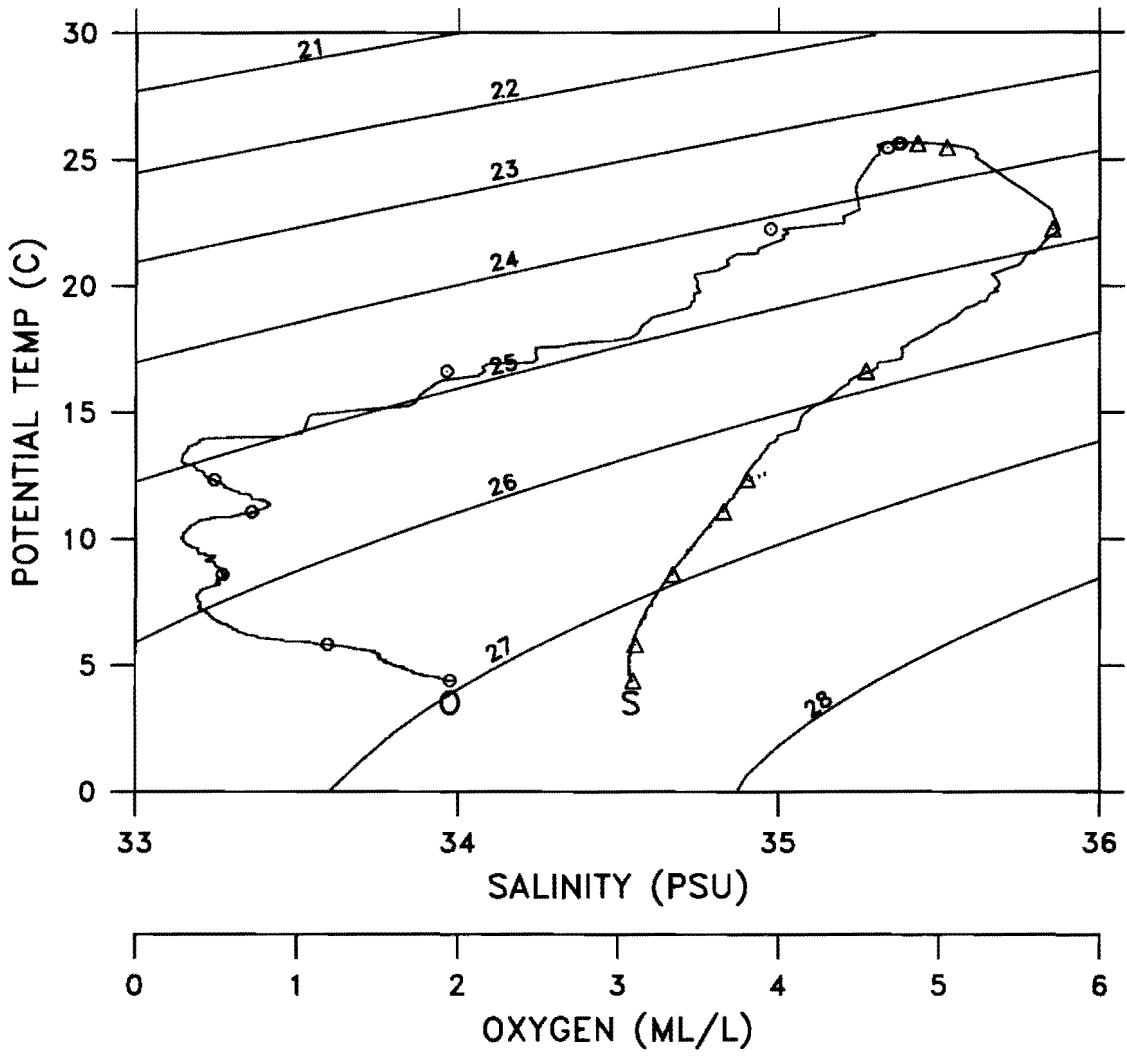


CAST EP2-87-OC -025 DATE 21 OCT 87 TIME 1653 GMT
 LAT 00 00.7N LONG 114 58.2W WEATHER 2 SEA STATE 3
 BAROMETER 14 WIND DIR 110 T SPD 17 KT VISIBILITY 8
 CLOUD 7 AMOUNT 8 DRY 24.9 WET 23.4 DEPTH 3986 M

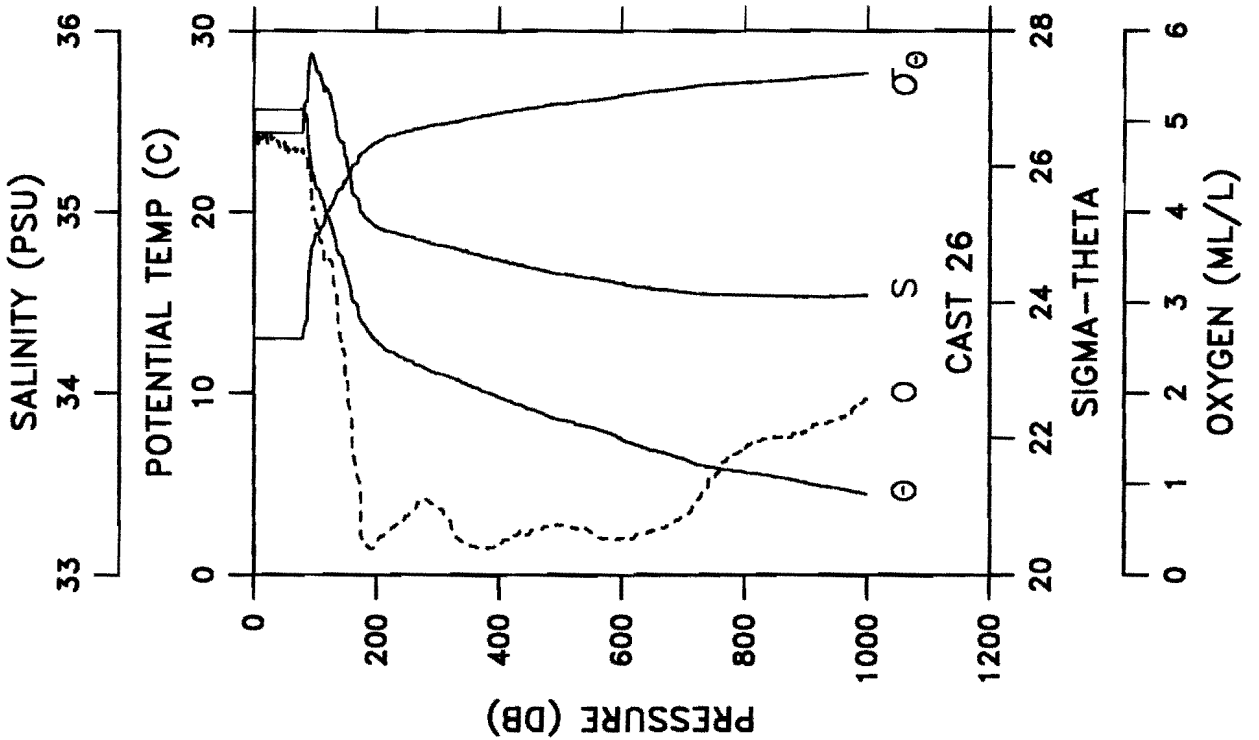


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.898 | 34.852 | 4.54 | 23.561 | 0.000 |
| 10 | 23.894 | 34.851 | 4.51 | 23.562 | 0.043 |
| 20 | 23.842 | 34.850 | 4.42 | 23.576 | 0.086 |
| 30 | 23.691 | 34.848 | 4.32 | 23.619 | 0.129 |
| 40 | 23.322 | 34.847 | 4.22 | 23.726 | 0.172 |
| 50 | 22.655 | 34.869 | 3.85 | 23.934 | 0.213 |
| 60 | 21.820 | 34.915 | 3.72 | 24.205 | 0.251 |
| 70 | 20.971 | 35.030 | 3.44 | 24.526 | 0.287 |
| 80 | 19.905 | 35.270 | 3.19 | 24.994 | 0.319 |
| 90 | 18.575 | 35.196 | 3.05 | 25.280 | 0.348 |
| 100 | 17.043 | 34.977 | 2.96 | 25.487 | 0.374 |
| 110 | 16.608 | 34.966 | 2.92 | 25.582 | 0.398 |
| 120 | 16.425 | 35.027 | 2.97 | 25.671 | 0.422 |
| 130 | 15.348 | 35.017 | 2.89 | 25.909 | 0.444 |
| 140 | 14.426 | 34.967 | 2.76 | 26.072 | 0.465 |
| 150 | 13.863 | 34.944 | 2.54 | 26.173 | 0.484 |
| 160 | 13.714 | 34.938 | 2.50 | 26.200 | 0.503 |
| 170 | 13.524 | 34.948 | 2.40 | 26.247 | 0.521 |
| 180 | 13.454 | 34.948 | 2.40 | 26.261 | 0.539 |
| 190 | 13.404 | 34.941 | 2.38 | 26.266 | 0.557 |
| 200 | 13.249 | 34.939 | 2.25 | 26.296 | 0.575 |
| 250 | 12.721 | 34.903 | 1.80 | 26.374 | 0.661 |
| 300 | 12.141 | 34.864 | 0.96 | 26.457 | 0.747 |
| 350 | 10.094 | 34.742 | 0.35 | 26.735 | 0.819 |
| 400 | 9.240 | 34.692 | 0.48 | 26.838 | 0.886 |
| 450 | 8.426 | 34.648 | 0.68 | 26.933 | 0.947 |
| 500 | 7.930 | 34.623 | 0.86 | 26.989 | 1.006 |
| 550 | 7.470 | 34.603 | 1.00 | 27.040 | 1.062 |
| 600 | 7.180 | 34.592 | 1.10 | 27.072 | 1.117 |
| 650 | 6.738 | 34.577 | 1.22 | 27.122 | 1.170 |
| 700 | 6.148 | 34.561 | 1.43 | 27.187 | 1.220 |
| 750 | 5.863 | 34.556 | 1.55 | 27.219 | 1.268 |
| 800 | 5.531 | 34.550 | 1.67 | 27.256 | 1.315 |
| 900 | 5.092 | 34.550 | 1.76 | 27.308 | 1.404 |
| 1000 | 4.586 | 34.556 | 1.83 | 27.370 | 1.488 |
| 1500 | 2.941 | 34.606 | 2.06 | 27.576 | 1.839 |
| 2000 | 2.211 | 34.640 | 2.36 | 27.666 | 2.119 |
| 2500 | 1.677 | 34.666 | 2.83 | 27.729 | 2.366 |
| 3000 | 1.449 | 34.676 | 3.13 | 27.754 | 2.598 |
| 3500 | 1.238 | 34.689 | 3.40 | 27.779 | 2.822 |
| 4000 | 1.135 | 34.694 | 3.66 | 27.790 | 3.038 |
| 4050 | 1.134 | 34.695 | 3.66 | 27.791 | 3.060 |

CAST EP2-87-OC -026 DATE 23 OCT 87 TIME 1126 GMT
LAT 08 02.7S LONG 109 54.4W

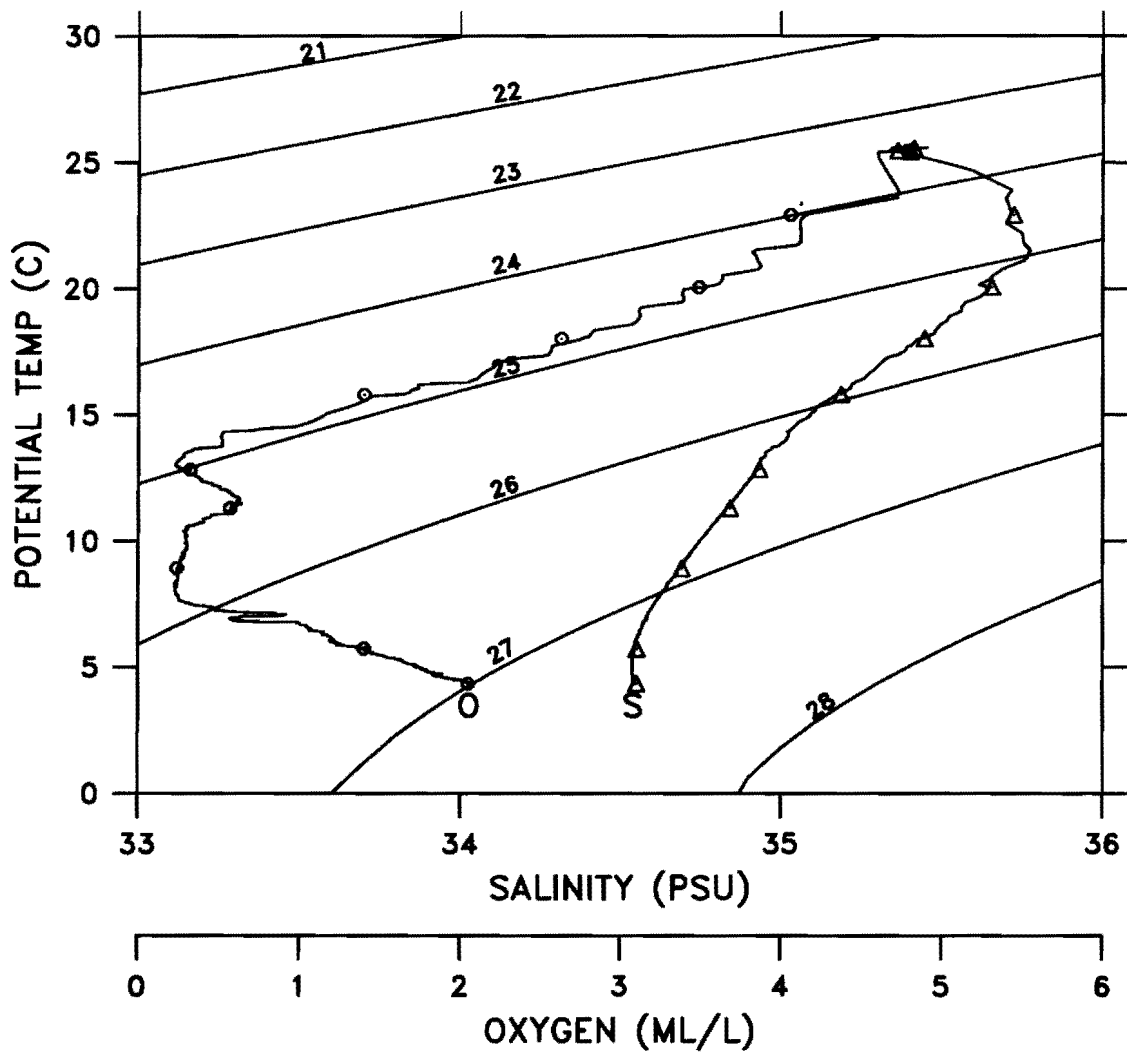


CAST EP2-87-0C -026 DATE 23 OCT 87 TIME 1126 GMT
 LAT 08 02.7S LONG 109 54.4W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 110 T SPD 16 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 22.0 DEPTH 3-64 M

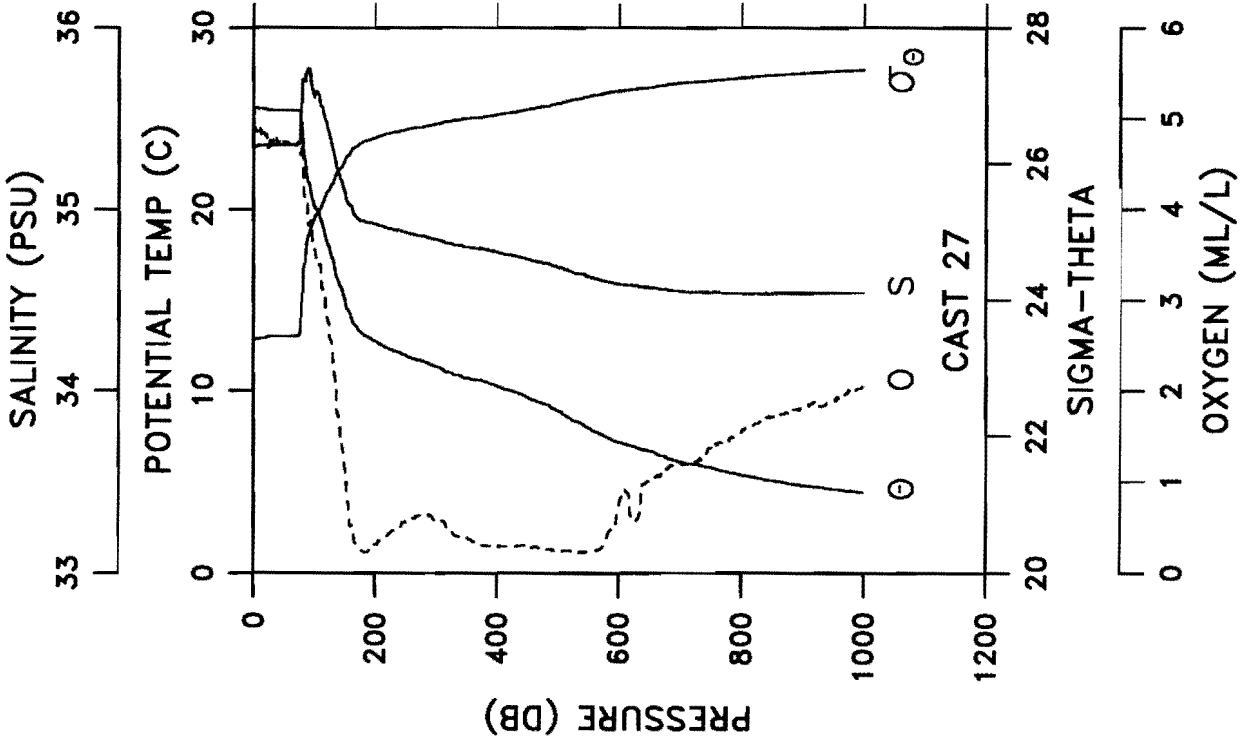


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.644 | 35.425 | 4.76 | 23.467 | 0.000 |
| 10 | 25.657 | 35.437 | 4.75 | 23.471 | 0.044 |
| 20 | 25.659 | 35.437 | 4.85 | 23.471 | 0.088 |
| 30 | 25.657 | 35.438 | 4.82 | 23.472 | 0.132 |
| 40 | 25.651 | 35.437 | 4.77 | 23.474 | 0.177 |
| 50 | 25.684 | 35.437 | 4.77 | 23.473 | 0.221 |
| 60 | 25.654 | 35.437 | 4.72 | 23.473 | 0.265 |
| 70 | 25.653 | 35.438 | 4.67 | 23.473 | 0.309 |
| 80 | 25.655 | 35.451 | 4.70 | 23.483 | 0.354 |
| 90 | 23.407 | 35.808 | 4.49 | 24.430 | 0.395 |
| 100 | 21.482 | 35.811 | 3.88 | 24.980 | 0.427 |
| 110 | 20.779 | 35.734 | 3.67 | 25.115 | 0.456 |
| 120 | 19.757 | 35.671 | 3.51 | 25.339 | 0.484 |
| 130 | 18.752 | 35.551 | 3.21 | 25.507 | 0.510 |
| 140 | 17.620 | 35.395 | 2.66 | 25.669 | 0.535 |
| 150 | 16.793 | 35.309 | 2.15 | 25.801 | 0.558 |
| 160 | 15.256 | 35.110 | 1.69 | 26.001 | 0.579 |
| 170 | 14.647 | 35.068 | 1.06 | 26.102 | 0.600 |
| 180 | 13.767 | 34.975 | 0.38 | 26.218 | 0.618 |
| 190 | 13.282 | 34.944 | 0.29 | 26.293 | 0.636 |
| 200 | 12.892 | 34.919 | 0.36 | 26.352 | 0.654 |
| 250 | 11.816 | 34.865 | 0.65 | 26.520 | 0.735 |
| 300 | 11.080 | 34.816 | 0.74 | 26.618 | 0.811 |
| 350 | 10.433 | 34.775 | 0.34 | 26.702 | 0.884 |
| 400 | 9.735 | 34.735 | 0.34 | 26.780 | 0.953 |
| 450 | 9.109 | 34.693 | 0.46 | 26.860 | 1.018 |
| 500 | 8.517 | 34.657 | 0.54 | 26.926 | 1.081 |
| 550 | 8.100 | 34.634 | 0.46 | 26.972 | 1.141 |
| 600 | 7.474 | 34.605 | 0.40 | 27.041 | 1.196 |
| 650 | 6.835 | 34.575 | 0.47 | 27.107 | 1.252 |
| 700 | 6.374 | 34.559 | 0.63 | 27.156 | 1.304 |
| 750 | 5.898 | 34.548 | 1.08 | 27.207 | 1.353 |
| 800 | 5.635 | 34.543 | 1.40 | 27.237 | 1.400 |
| 900 | 5.072 | 34.533 | 1.57 | 27.296 | 1.491 |
| 1000 | 4.400 | 34.540 | 1.93 | 27.378 | 1.575 |
| 1008 | 4.367 | 34.541 | 1.95 | 27.382 | 1.581 |

CAST EP2-87-OC -027 DATE 23 OCT 87 TIME 2345 GMT
LAT 07 00.1S LONG 110 00.5W

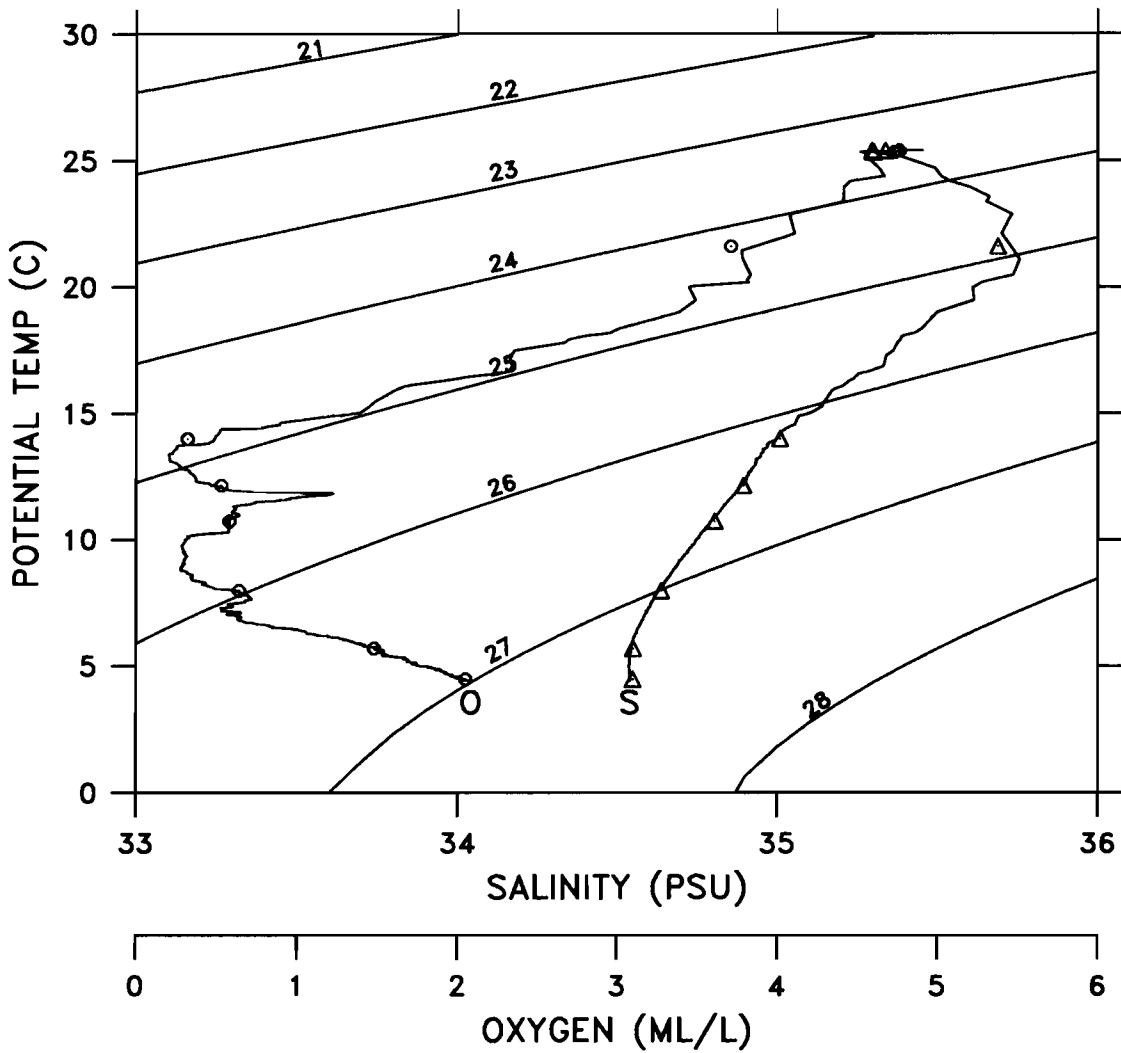


CAST EP2-87-OC -027 DATE 23 OCT 87 TIME 2345 GMT
 LAT 07 00.1S LONG 110 00.5W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 125 T SPD 17 KT VISIBILITY 9
 CLOUD 8 AMOUNT 3 DRY 25.1 WET 24.0 DEPTH 3470 M

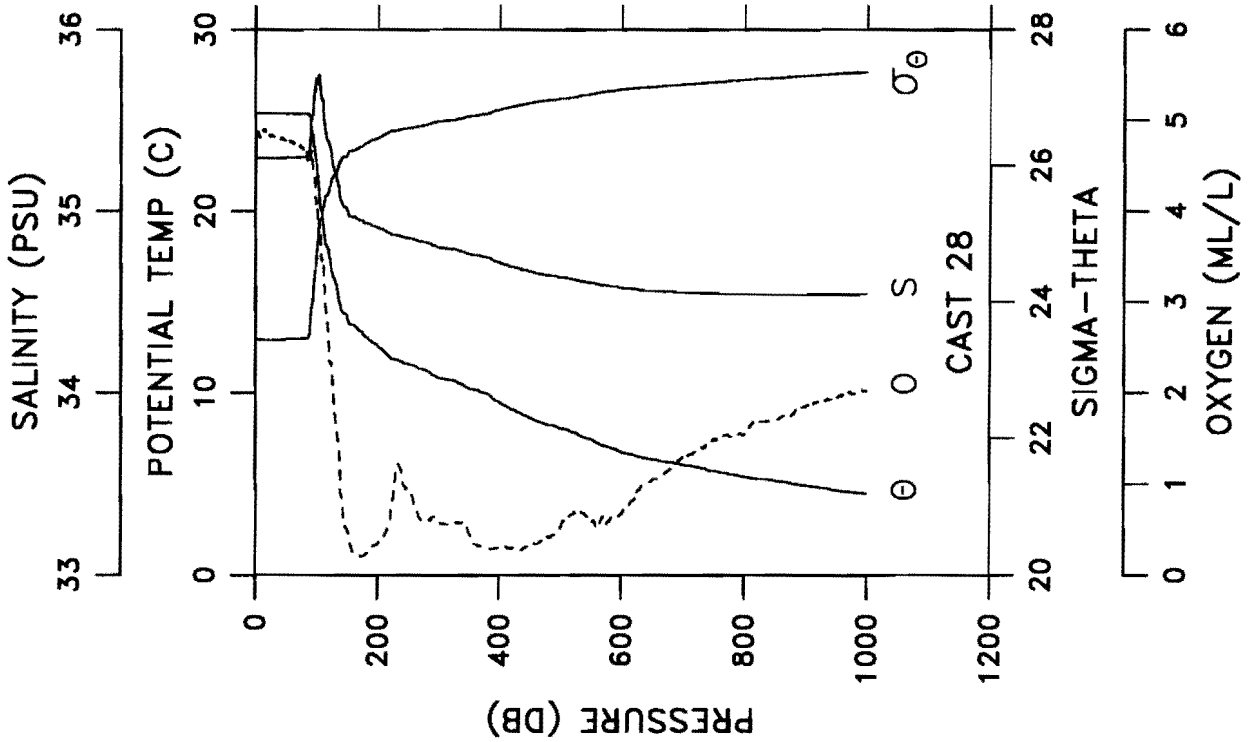


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.590 | 35.344 | 4.88 | 23.422 | 0.000 |
| 10 | 25.572 | 35.353 | 4.87 | 23.434 | 0.044 |
| 20 | 25.528 | 35.354 | 4.82 | 23.448 | 0.089 |
| 30 | 25.469 | 35.355 | 4.72 | 23.468 | 0.133 |
| 40 | 25.462 | 35.355 | 4.72 | 23.470 | 0.177 |
| 50 | 25.456 | 35.355 | 4.75 | 23.472 | 0.222 |
| 60 | 25.453 | 35.355 | 4.72 | 23.473 | 0.266 |
| 70 | 25.448 | 35.355 | 4.71 | 23.475 | 0.310 |
| 80 | 23.906 | 35.717 | 4.73 | 24.214 | 0.353 |
| 90 | 21.495 | 35.774 | 3.84 | 24.949 | 0.387 |
| 100 | 20.159 | 35.616 | 3.60 | 25.190 | 0.416 |
| 110 | 19.473 | 35.575 | 3.38 | 25.340 | 0.443 |
| 120 | 18.204 | 35.476 | 2.81 | 25.587 | 0.469 |
| 130 | 17.294 | 35.336 | 2.45 | 25.703 | 0.492 |
| 140 | 15.975 | 35.205 | 1.69 | 25.912 | 0.515 |
| 150 | 15.054 | 35.095 | 1.17 | 26.034 | 0.535 |
| 160 | 14.115 | 35.022 | 0.51 | 26.180 | 0.555 |
| 170 | 13.503 | 34.952 | 0.29 | 26.254 | 0.573 |
| 180 | 13.146 | 34.937 | 0.24 | 26.315 | 0.591 |
| 190 | 12.928 | 34.925 | 0.26 | 26.350 | 0.608 |
| 200 | 12.752 | 34.921 | 0.32 | 26.382 | 0.625 |
| 250 | 11.959 | 34.874 | 0.57 | 26.500 | 0.707 |
| 300 | 11.355 | 34.834 | 0.59 | 26.582 | 0.785 |
| 350 | 10.731 | 34.793 | 0.39 | 26.663 | 0.859 |
| 400 | 10.263 | 34.765 | 0.29 | 26.724 | 0.930 |
| 450 | 9.652 | 34.726 | 0.29 | 26.797 | 0.999 |
| 500 | 8.890 | 34.681 | 0.24 | 26.886 | 1.064 |
| 550 | 7.967 | 34.629 | 0.23 | 26.988 | 1.125 |
| 600 | 7.167 | 34.588 | 0.72 | 27.071 | 1.181 |
| 650 | 6.677 | 34.569 | 1.01 | 27.124 | 1.234 |
| 700 | 6.078 | 34.550 | 1.21 | 27.187 | 1.284 |
| 750 | 5.784 | 34.543 | 1.37 | 27.219 | 1.332 |
| 800 | 5.367 | 34.538 | 1.54 | 27.266 | 1.378 |
| 900 | 4.789 | 34.536 | 1.81 | 27.331 | 1.465 |
| 1000 | 4.403 | 34.541 | 2.05 | 27.378 | 1.546 |
| 1008 | 4.336 | 34.543 | 2.05 | 27.387 | 1.554 |

CAST EP2-87-OC -028 DATE 24 OCT 87 TIME 0607 GMT
LAT 06 00.6S LONG 110 01.5W



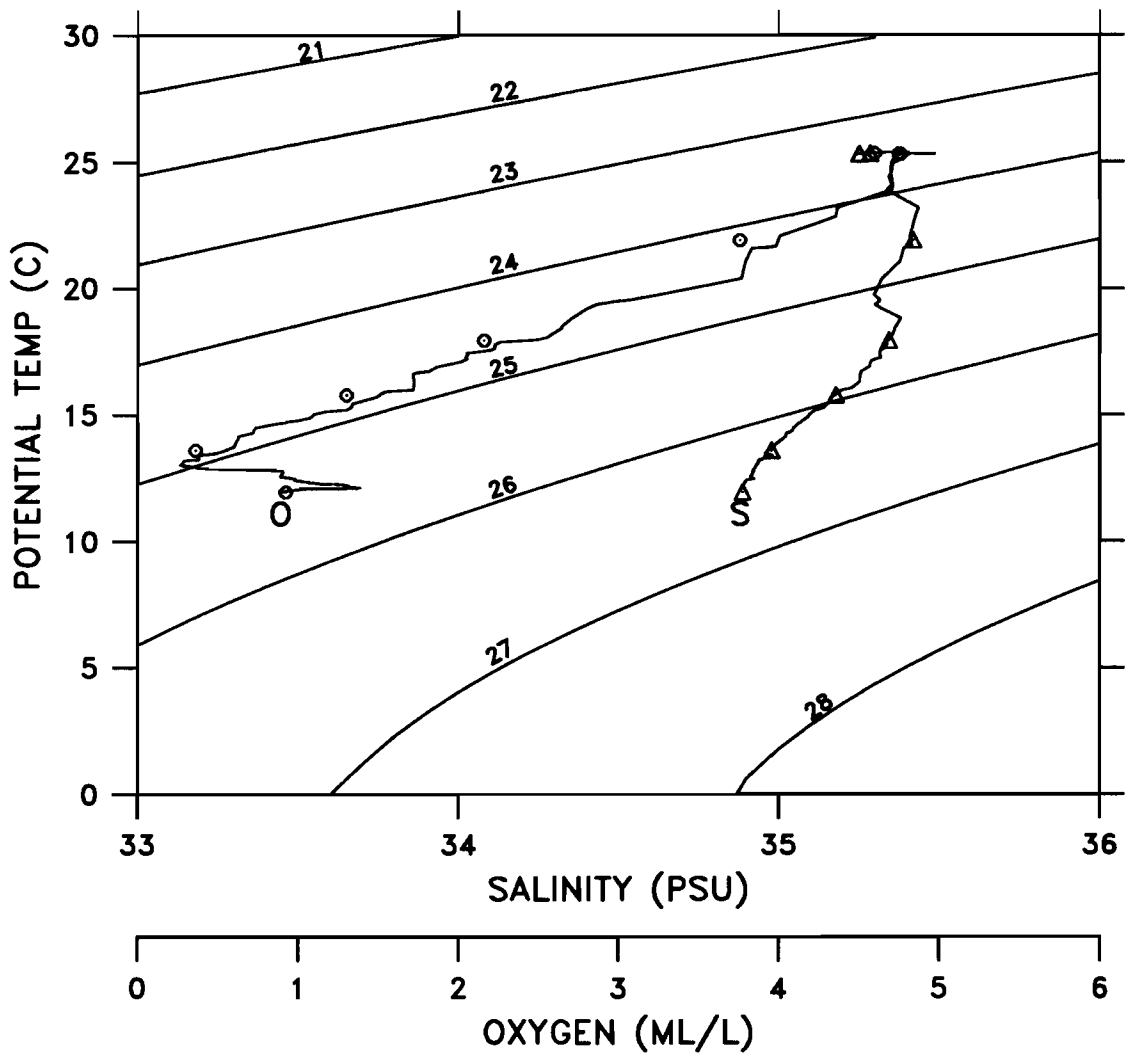
CAST EP2-87-OC -028 DATE 24 OCT 87 TIME 0607 GMT
 LAT 06 00.6S LONG 110 01.5W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 110 T SPD 17 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.8 WET 22.7 DEPTH 3409 M



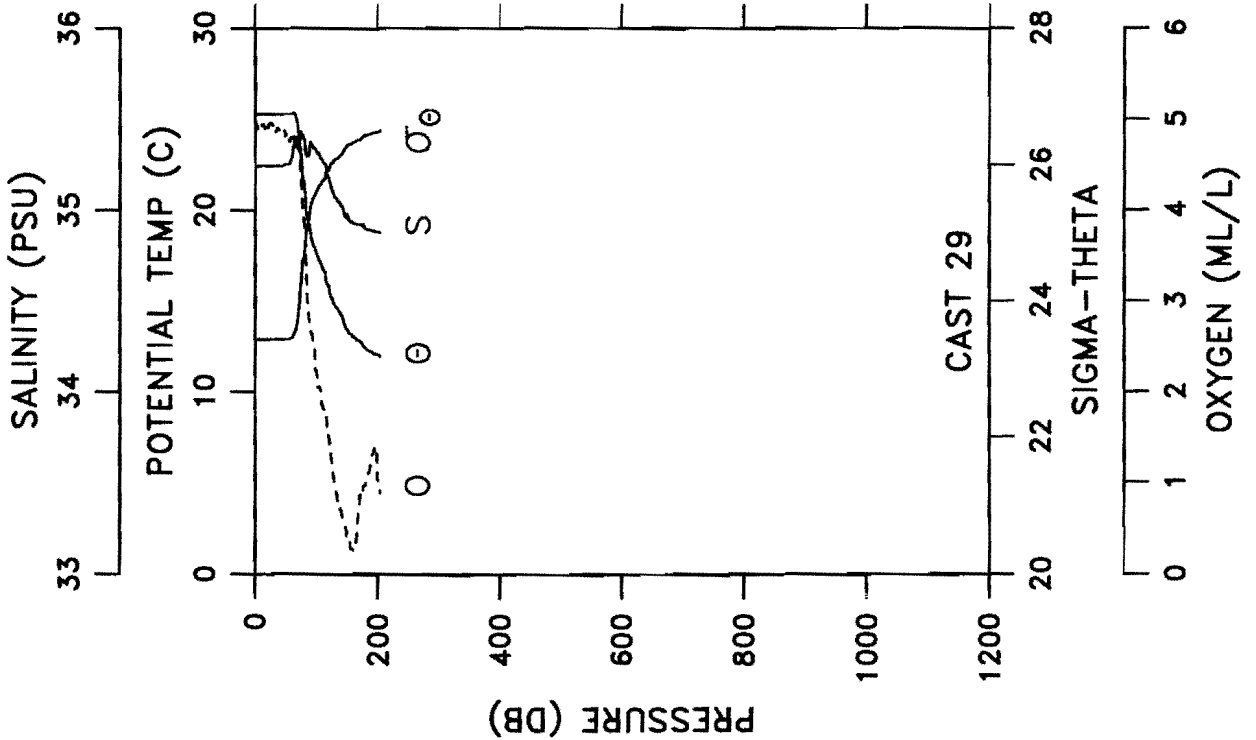
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.383 | 35.292 | 4.87 | 23.447 | 0.000 |
| 10 | 25.379 | 35.292 | 4.86 | 23.448 | 0.044 |
| 20 | 25.385 | 35.292 | 4.84 | 23.446 | 0.089 |
| 30 | 25.385 | 35.291 | 4.81 | 23.446 | 0.133 |
| 40 | 25.386 | 35.292 | 4.78 | 23.446 | 0.178 |
| 50 | 25.351 | 35.295 | 4.76 | 23.459 | 0.222 |
| 60 | 25.342 | 35.295 | 4.77 | 23.462 | 0.266 |
| 70 | 25.341 | 35.297 | 4.70 | 23.463 | 0.311 |
| 80 | 25.339 | 35.298 | 4.65 | 23.465 | 0.355 |
| 90 | 24.692 | 35.492 | 4.63 | 23.808 | 0.399 |
| 100 | 22.116 | 35.700 | 4.11 | 24.718 | 0.437 |
| 110 | 19.230 | 35.556 | 3.44 | 25.388 | 0.465 |
| 120 | 17.473 | 35.362 | 2.35 | 25.680 | 0.490 |
| 130 | 16.130 | 35.209 | 1.72 | 25.879 | 0.512 |
| 140 | 14.545 | 35.054 | 0.89 | 26.114 | 0.533 |
| 150 | 14.060 | 35.004 | 0.49 | 26.178 | 0.552 |
| 160 | 13.730 | 34.968 | 0.26 | 26.220 | 0.570 |
| 170 | 13.416 | 34.949 | 0.22 | 26.270 | 0.589 |
| 180 | 13.075 | 34.935 | 0.23 | 26.328 | 0.606 |
| 190 | 12.793 | 34.921 | 0.29 | 26.374 | 0.623 |
| 200 | 12.584 | 34.911 | 0.35 | 26.407 | 0.640 |
| 250 | 11.595 | 34.852 | 0.95 | 26.551 | 0.719 |
| 300 | 10.822 | 34.801 | 0.59 | 26.653 | 0.795 |
| 350 | 10.252 | 34.763 | 0.48 | 26.724 | 0.866 |
| 400 | 9.475 | 34.720 | 0.30 | 26.822 | 0.934 |
| 450 | 8.627 | 34.667 | 0.34 | 26.917 | 0.997 |
| 500 | 8.036 | 34.634 | 0.51 | 26.981 | 1.056 |
| 550 | 7.442 | 34.605 | 0.57 | 27.046 | 1.113 |
| 600 | 6.732 | 34.577 | 0.67 | 27.123 | 1.166 |
| 650 | 6.366 | 34.562 | 1.04 | 27.159 | 1.217 |
| 700 | 6.053 | 34.552 | 1.29 | 27.192 | 1.266 |
| 750 | 5.728 | 34.543 | 1.50 | 27.226 | 1.314 |
| 800 | 5.400 | 34.541 | 1.54 | 27.265 | 1.360 |
| 900 | 4.914 | 34.538 | 1.85 | 27.319 | 1.448 |
| 1000 | 4.464 | 34.540 | 2.02 | 27.371 | 1.530 |
| 1009 | 4.419 | 34.541 | 2.08 | 27.377 | 1.537 |

CAST EP2-87-OC -029 DATE 24 OCT 87 TIME 1219 GMT

LAT 05 00.1S LONG 109 54.3W

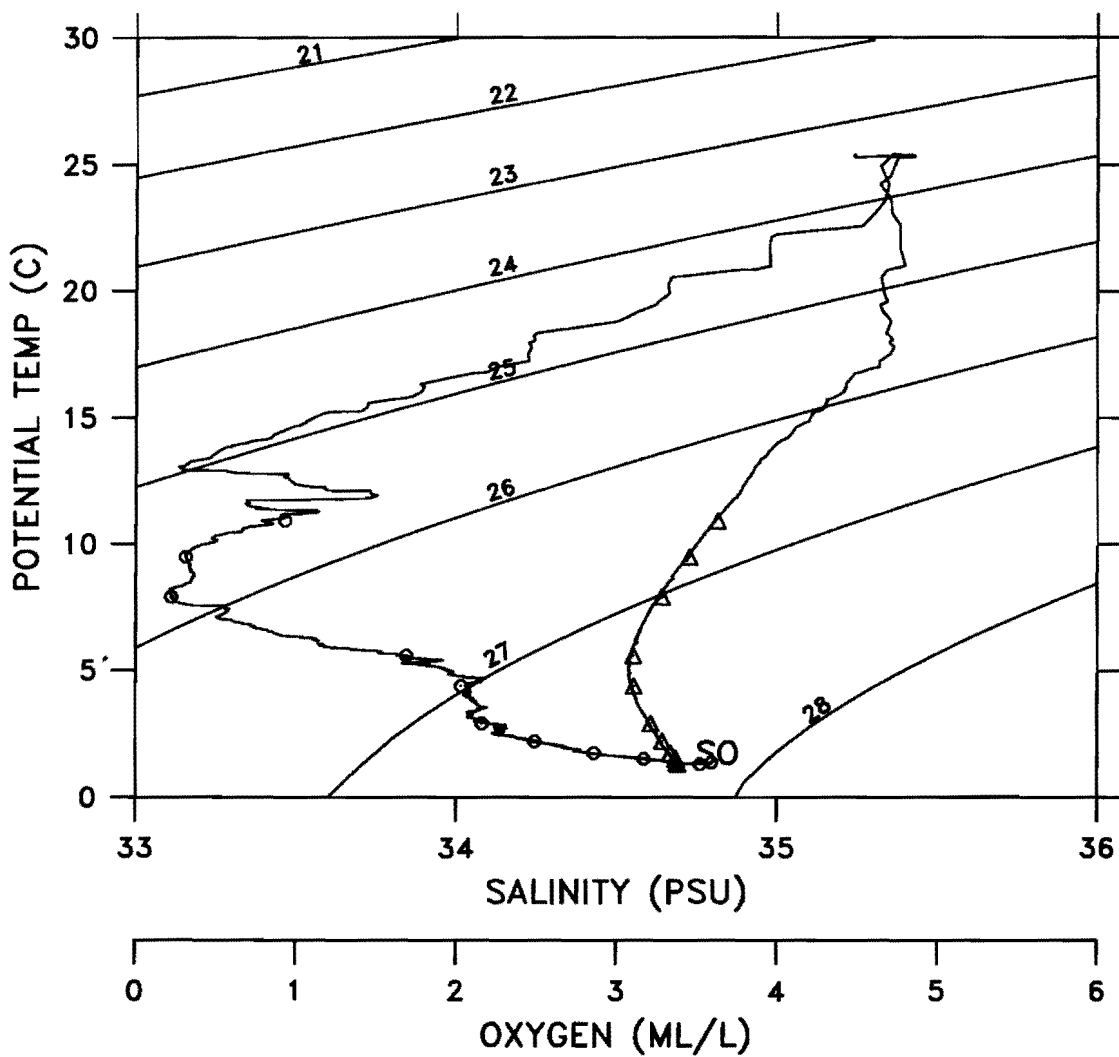


CAST EP2-87-OC -029 DATE 24 OCT 87 TIME 1219 GMT
 LAT 05 00.15 LONG 109 54.3W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 100 T SPD 18 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 22.5 DEPTH 3409 M

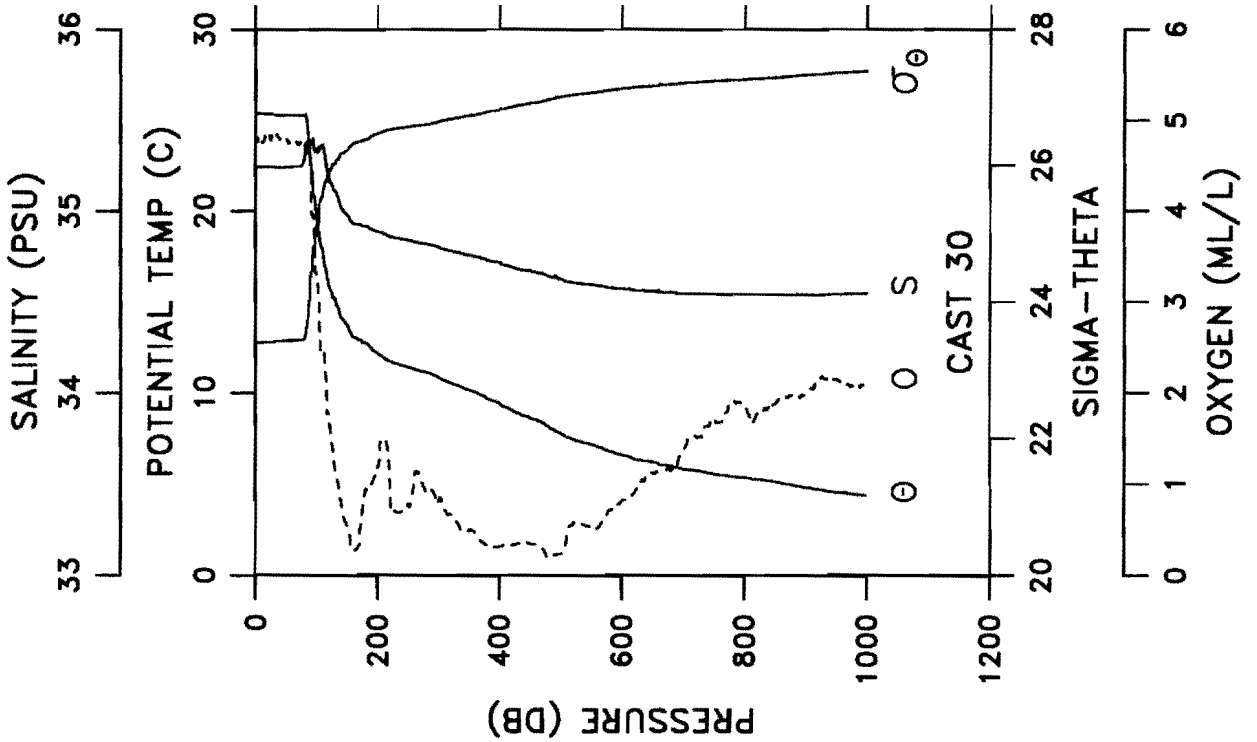


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.296 | 35.243 | 4.94 | 23.436 | 0.000 |
| 10 | 25.299 | 35.244 | 4.97 | 23.436 | 0.044 |
| 20 | 25.294 | 35.245 | 4.89 | 23.438 | 0.089 |
| 30 | 25.301 | 35.246 | 4.94 | 23.437 | 0.133 |
| 40 | 25.301 | 35.245 | 4.90 | 23.436 | 0.178 |
| 50 | 25.312 | 35.255 | 4.83 | 23.440 | 0.222 |
| 60 | 25.341 | 35.299 | 4.81 | 23.465 | 0.267 |
| 70 | 24.386 | 35.343 | 4.70 | 23.788 | 0.310 |
| 80 | 21.596 | 35.391 | 3.84 | 24.629 | 0.347 |
| 90 | 18.811 | 35.382 | 2.71 | 25.362 | 0.376 |
| 100 | 17.625 | 35.328 | 2.23 | 25.616 | 0.401 |
| 110 | 16.813 | 35.272 | 1.84 | 25.768 | 0.425 |
| 120 | 15.829 | 35.181 | 1.51 | 25.927 | 0.446 |
| 130 | 14.769 | 35.073 | 0.98 | 26.079 | 0.466 |
| 140 | 14.281 | 35.024 | 0.71 | 26.147 | 0.486 |
| 150 | 13.400 | 34.981 | 0.37 | 26.298 | 0.504 |
| 160 | 13.031 | 34.931 | 0.27 | 26.334 | 0.522 |
| 170 | 12.826 | 34.921 | 0.78 | 26.367 | 0.539 |
| 180 | 12.415 | 34.899 | 0.98 | 26.431 | 0.555 |
| 190 | 12.220 | 34.891 | 1.29 | 26.463 | 0.572 |
| 200 | 12.061 | 34.883 | 1.04 | 26.487 | 0.587 |
| 204 | 11.940 | 34.877 | 0.89 | 26.505 | 0.594 |

CAST EP2-87-OC -030 DATE 25 OCT 87 TIME 0641 GMT
LAT 05 02.5S LONG 109 47.7W

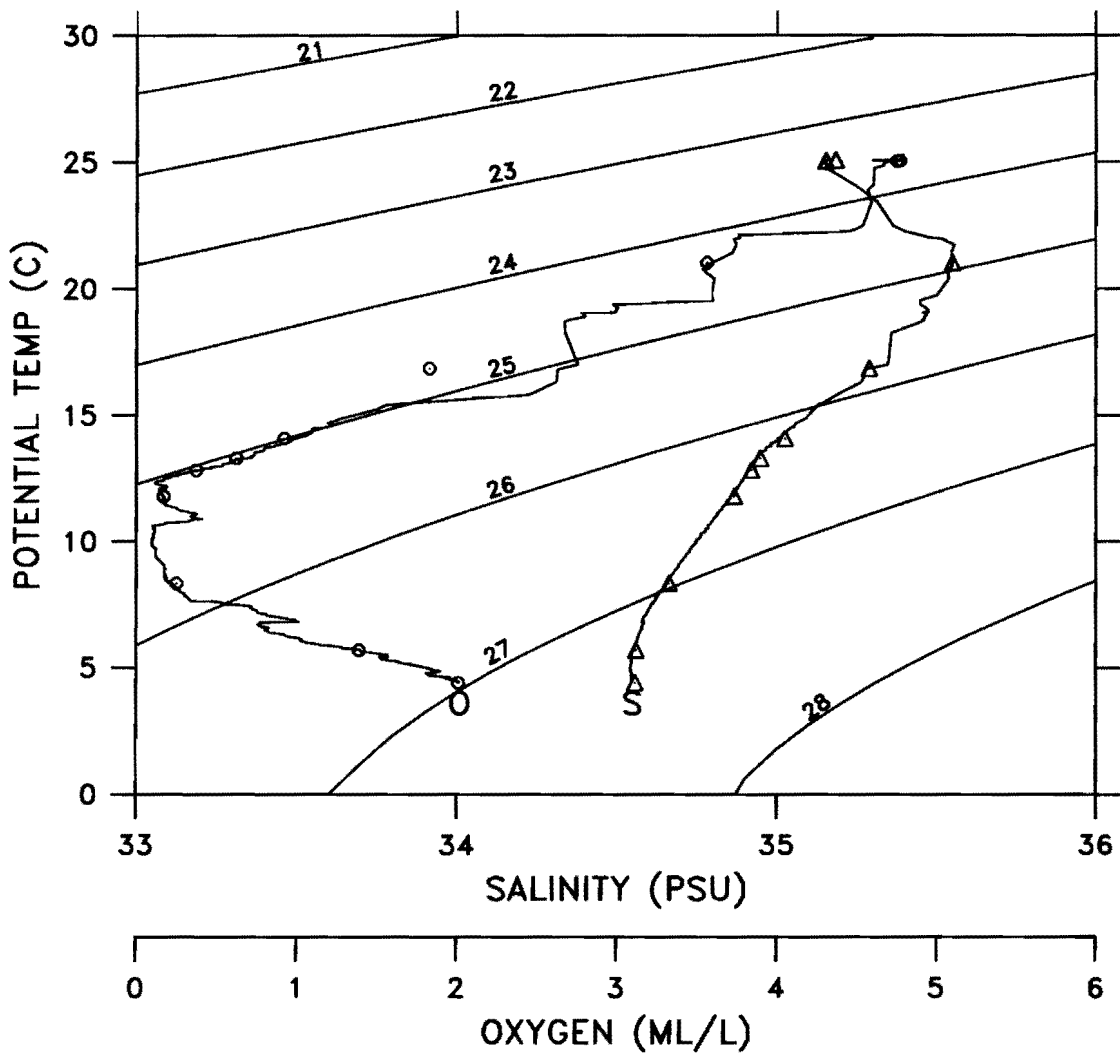


CAST EP2-87-OC -030 DATE 25 OCT 87 TIME 0641 GMT
 LAT 05 02.55 LONG 109 47.7W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 100 T SPD 16 KT VISIBILITY 8
 CLOUD 4 AMOUNT 6 DRY 25.0 WET 23.0 DEPTH 3496 M

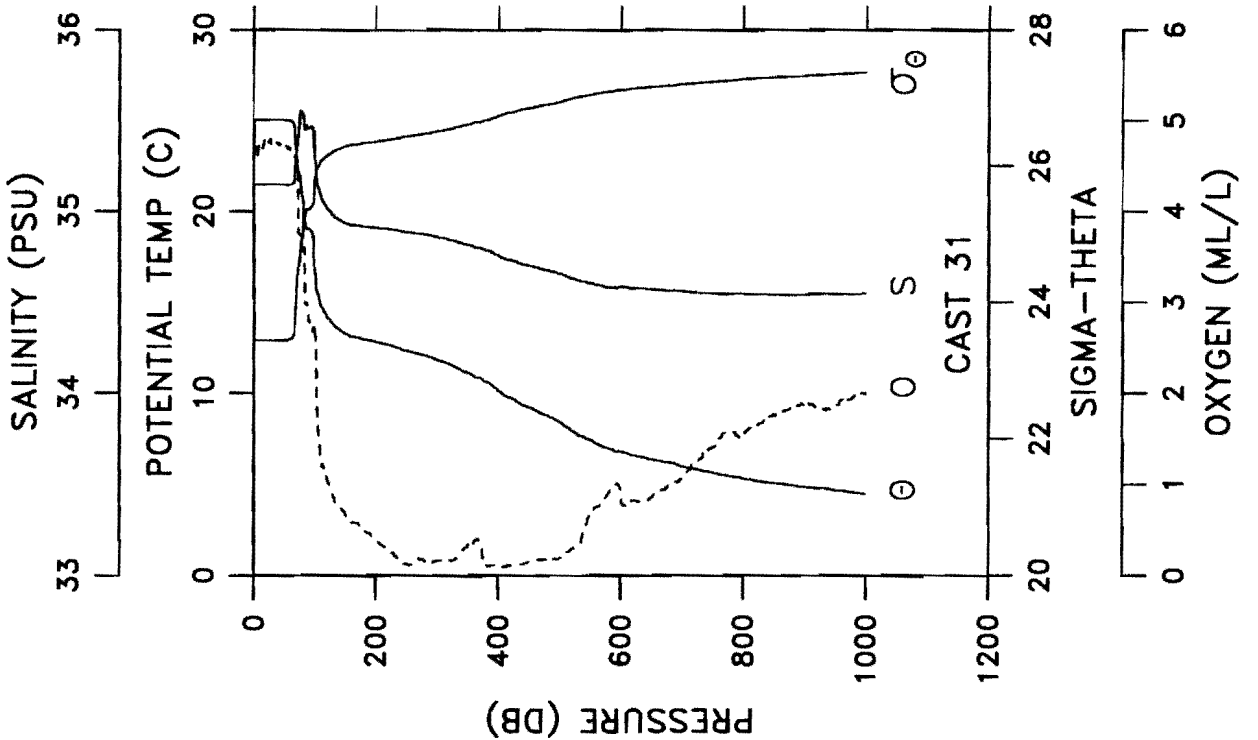


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.382 | 35.239 | 4.77 | 23.407 | 0.000 |
| 10 | 25.380 | 35.243 | 4.76 | 23.410 | 0.045 |
| 20 | 25.373 | 35.242 | 4.80 | 23.412 | 0.089 |
| 30 | 25.354 | 35.241 | 4.84 | 23.417 | 0.134 |
| 40 | 25.299 | 35.239 | 4.78 | 23.433 | 0.179 |
| 50 | 25.294 | 35.241 | 4.78 | 23.435 | 0.223 |
| 60 | 25.295 | 35.244 | 4.76 | 23.437 | 0.268 |
| 70 | 25.288 | 35.246 | 4.73 | 23.441 | 0.313 |
| 80 | 25.315 | 35.294 | 4.72 | 23.469 | 0.357 |
| 90 | 22.572 | 35.383 | 4.53 | 24.348 | 0.399 |
| 100 | 19.601 | 35.343 | 3.26 | 25.130 | 0.431 |
| 110 | 17.785 | 35.365 | 2.47 | 25.606 | 0.457 |
| 120 | 15.872 | 35.188 | 1.74 | 25.922 | 0.479 |
| 130 | 15.156 | 35.110 | 1.16 | 26.023 | 0.500 |
| 140 | 14.146 | 35.020 | 0.81 | 26.173 | 0.519 |
| 150 | 13.725 | 34.980 | 0.53 | 26.230 | 0.538 |
| 160 | 13.073 | 34.932 | 0.27 | 26.326 | 0.556 |
| 170 | 12.932 | 34.926 | 0.34 | 26.350 | 0.573 |
| 180 | 12.751 | 34.918 | 0.95 | 26.380 | 0.590 |
| 190 | 12.417 | 34.901 | 0.98 | 26.432 | 0.607 |
| 200 | 12.183 | 34.890 | 1.18 | 26.469 | 0.623 |
| 250 | 11.427 | 34.840 | 0.78 | 26.573 | 0.700 |
| 300 | 10.867 | 34.803 | 0.80 | 26.647 | 0.775 |
| 350 | 10.174 | 34.758 | 0.48 | 26.734 | 0.846 |
| 400 | 9.430 | 34.721 | 0.32 | 26.830 | 0.913 |
| 450 | 8.631 | 34.677 | 0.35 | 26.924 | 0.976 |
| 500 | 7.783 | 34.628 | 0.23 | 27.014 | 1.034 |
| 550 | 7.188 | 34.596 | 0.52 | 27.075 | 1.089 |
| 600 | 6.606 | 34.574 | 0.82 | 27.137 | 1.141 |
| 650 | 6.226 | 34.562 | 1.13 | 27.177 | 1.191 |
| 700 | 5.827 | 34.548 | 1.37 | 27.217 | 1.239 |
| 750 | 5.551 | 34.545 | 1.71 | 27.249 | 1.285 |
| 800 | 5.365 | 34.540 | 1.86 | 27.268 | 1.331 |
| 900 | 4.810 | 34.540 | 1.99 | 27.333 | 1.418 |
| 1000 | 4.374 | 34.547 | 2.08 | 27.386 | 1.499 |
| 1500 | 2.962 | 34.598 | 2.16 | 27.588 | 1.848 |
| 2000 | 2.215 | 34.636 | 2.48 | 27.663 | 2.135 |
| 2500 | 1.743 | 34.661 | 2.84 | 27.720 | 2.388 |
| 3000 | 1.525 | 34.674 | 3.17 | 27.747 | 2.623 |
| 3481 | 1.308 | 34.684 | 3.49 | 27.770 | 2.842 |

CAST EP2-87-OC -031 DATE 25 OCT 87 TIME 1418 GMT
LAT 04 00.5S LONG 110 00.2W

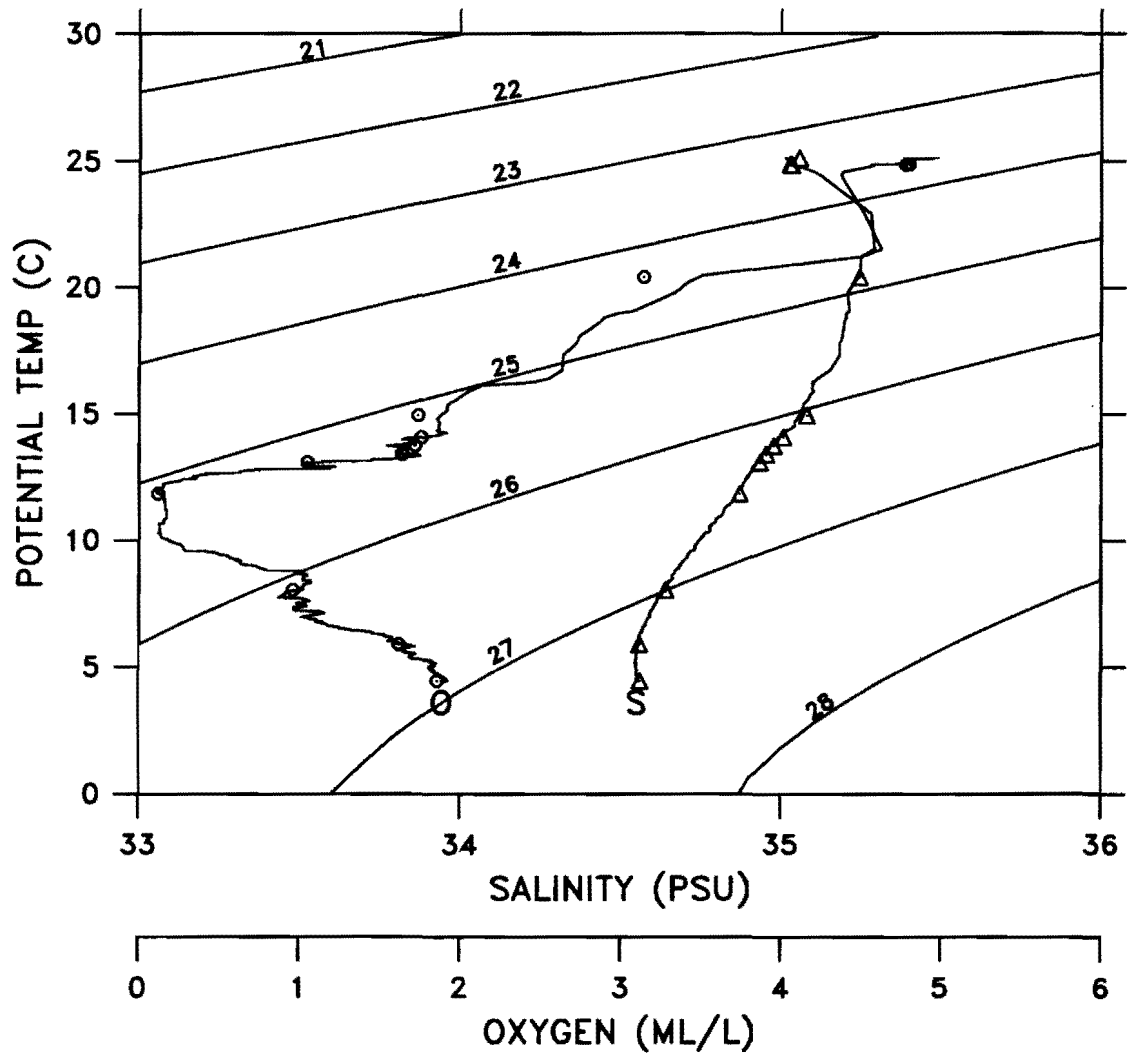


CAST EP2-87-0C -031 DATE 25 OCT 87 TIME 1418 GMT
 LAT 04 00.55 LONG 110 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 110 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 22.6 DEPTH 3652 M

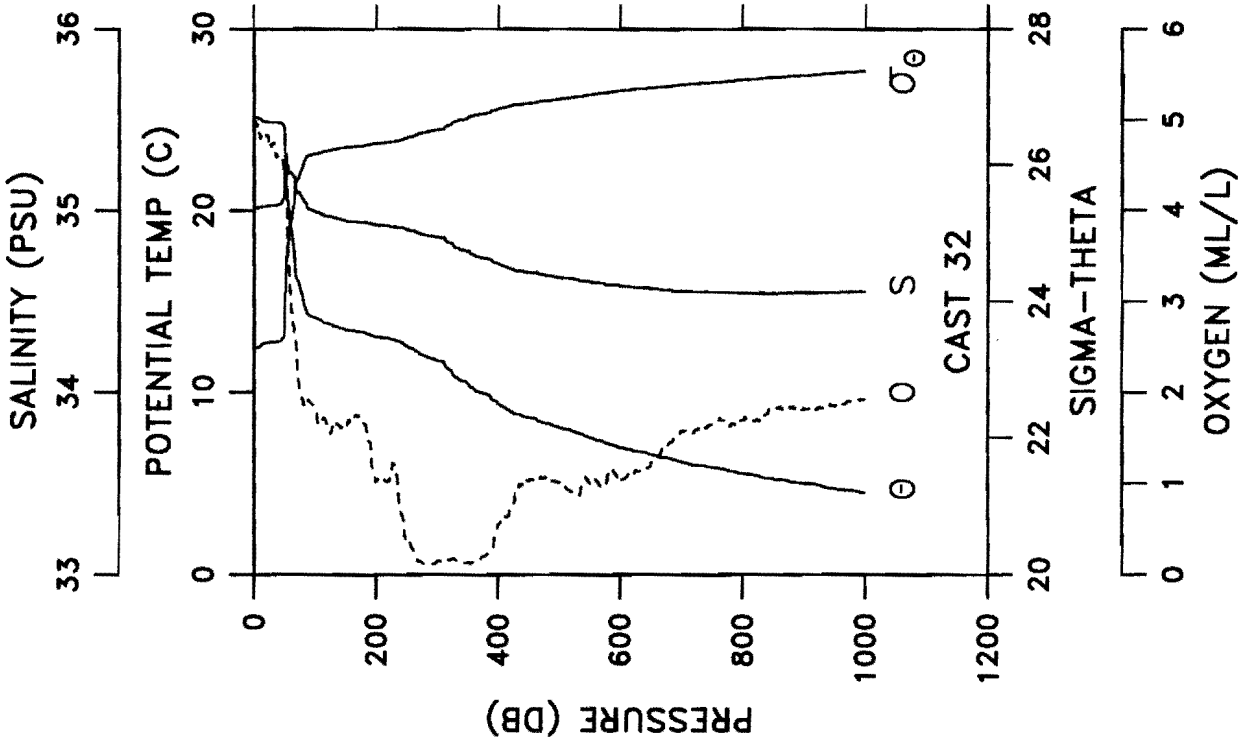


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.046 | 35.149 | 4.69 | 23.441 | 0.000 |
| 10 | 25.049 | 35.149 | 4.73 | 23.441 | 0.044 |
| 20 | 25.050 | 35.149 | 4.74 | 23.441 | 0.089 |
| 30 | 25.051 | 35.149 | 4.76 | 23.440 | 0.133 |
| 40 | 25.051 | 35.149 | 4.75 | 23.441 | 0.178 |
| 50 | 25.018 | 35.148 | 4.72 | 23.449 | 0.222 |
| 60 | 24.968 | 35.148 | 4.67 | 23.465 | 0.267 |
| 70 | 22.946 | 35.338 | 4.56 | 24.207 | 0.309 |
| 80 | 20.765 | 35.534 | 4.53 | 24.966 | 0.342 |
| 90 | 19.043 | 35.459 | 2.79 | 25.362 | 0.370 |
| 100 | 16.806 | 35.277 | 2.63 | 25.774 | 0.395 |
| 110 | 14.800 | 35.080 | 1.25 | 26.078 | 0.416 |
| 120 | 14.161 | 35.014 | 1.05 | 26.165 | 0.435 |
| 130 | 13.781 | 34.981 | 0.86 | 26.219 | 0.453 |
| 140 | 13.520 | 34.954 | 0.74 | 26.252 | 0.472 |
| 150 | 13.287 | 34.936 | 0.68 | 26.286 | 0.489 |
| 160 | 13.129 | 34.926 | 0.59 | 26.310 | 0.507 |
| 170 | 13.081 | 34.923 | 0.57 | 26.318 | 0.524 |
| 180 | 12.965 | 34.917 | 0.51 | 26.336 | 0.542 |
| 190 | 12.901 | 34.914 | 0.47 | 26.347 | 0.559 |
| 200 | 12.838 | 34.912 | 0.40 | 26.358 | 0.576 |
| 250 | 12.349 | 34.888 | 0.13 | 26.435 | 0.661 |
| 300 | 11.857 | 34.861 | 0.16 | 26.509 | 0.742 |
| 350 | 11.146 | 34.818 | 0.33 | 26.608 | 0.820 |
| 400 | 10.134 | 34.759 | 0.10 | 26.741 | 0.892 |
| 450 | 9.235 | 34.703 | 0.15 | 26.848 | 0.959 |
| 500 | 8.445 | 34.659 | 0.19 | 26.938 | 1.021 |
| 550 | 7.460 | 34.607 | 0.69 | 27.045 | 1.079 |
| 600 | 6.816 | 34.586 | 0.93 | 27.118 | 1.132 |
| 650 | 6.381 | 34.572 | 0.86 | 27.165 | 1.183 |
| 700 | 5.999 | 34.562 | 1.06 | 27.207 | 1.231 |
| 750 | 5.652 | 34.551 | 1.40 | 27.241 | 1.278 |
| 800 | 5.325 | 34.548 | 1.54 | 27.279 | 1.324 |
| 900 | 4.871 | 34.544 | 1.90 | 27.329 | 1.410 |
| 1000 | 4.479 | 34.549 | 2.01 | 27.376 | 1.492 |
| 1008 | 4.462 | 34.549 | 2.02 | 27.378 | 1.499 |

CAST EP2-87-OC -032 DATE 25 OCT 87 TIME 2054 GMT
LAT 02 59.7S LONG 110 00.2W

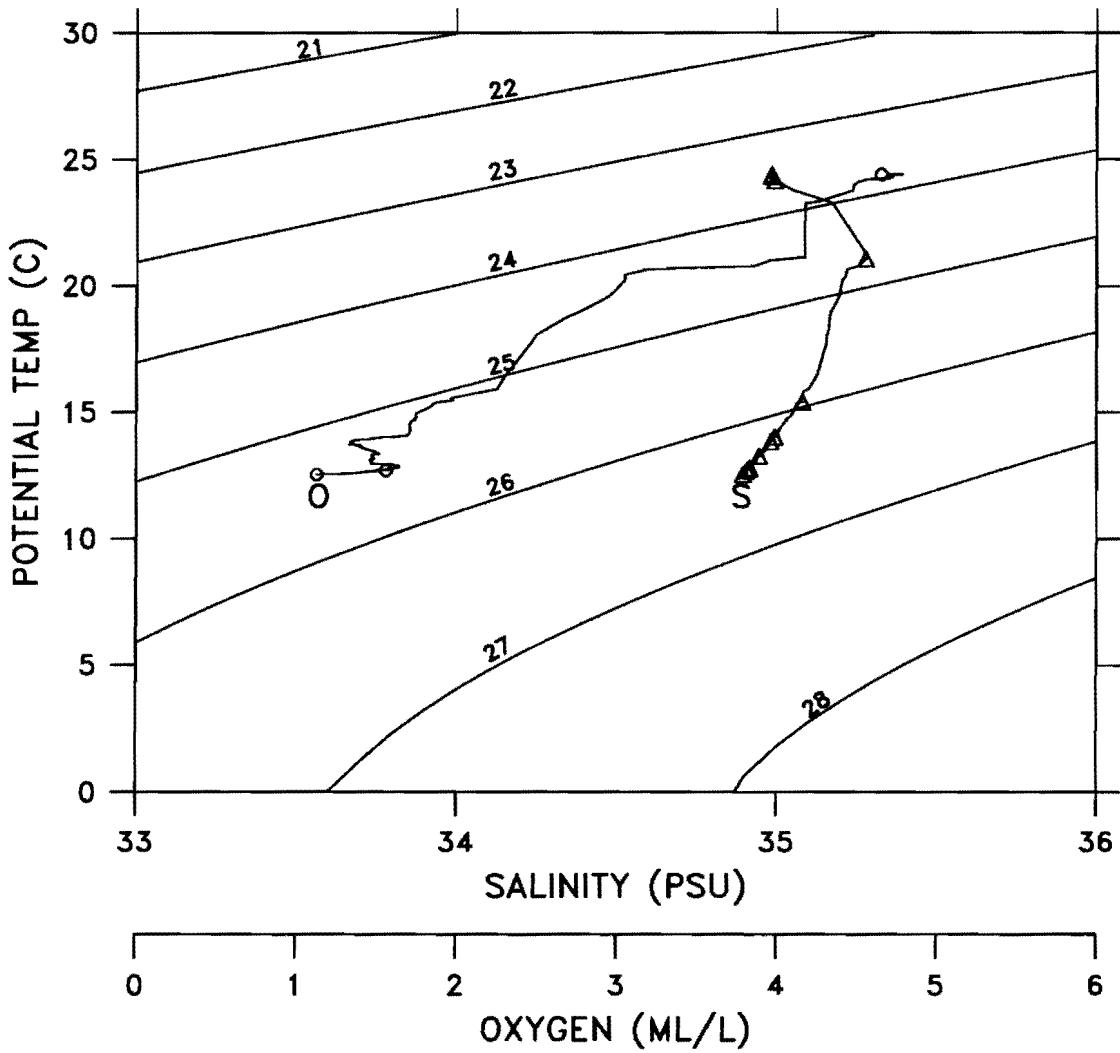


CAST EP2-87-OC -032 DATE 25 OCT 87 TIME 2054 GMT
 LAT 02 59.75 LONG 110 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 125 T SPD 12 KT VISIBILITY 8
 CLOUD 1 AMOUNT 3 DRY 28.1 WET 24.5 DEPTH 3767 M

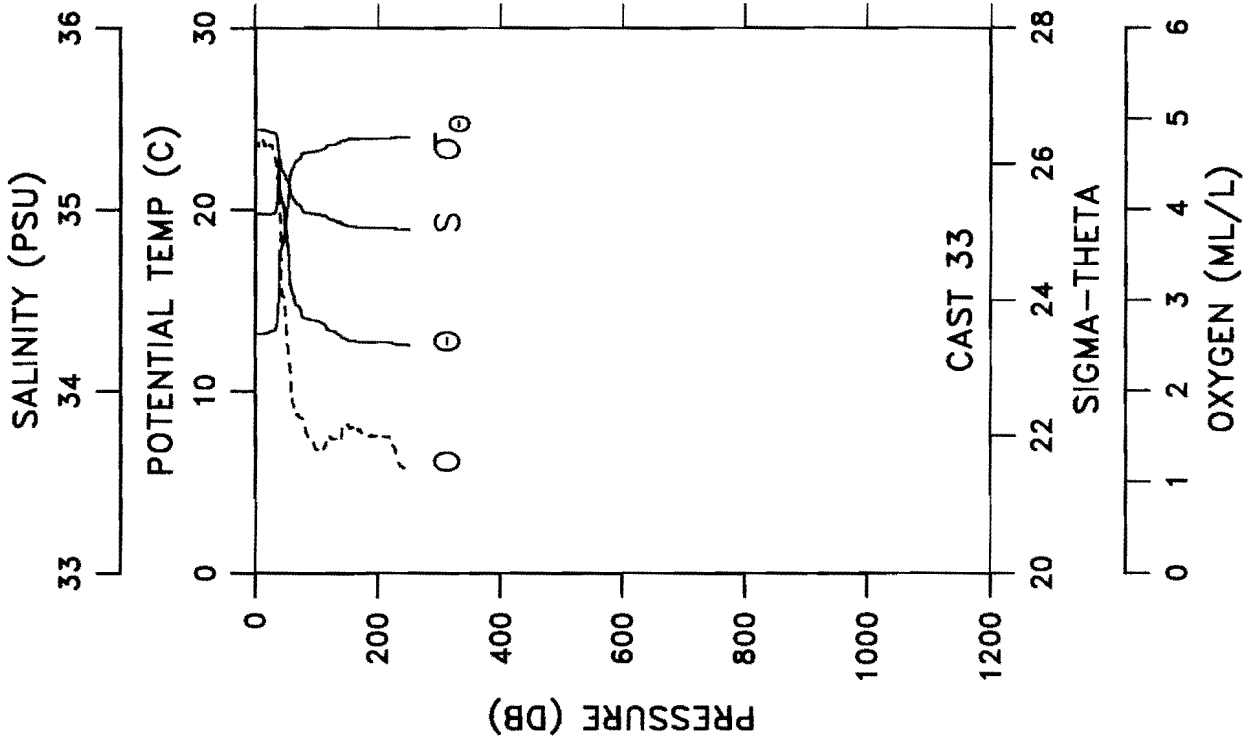


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.121 | 35.013 | 4.97 | 23.316 | 0.000 |
| 10 | 25.064 | 35.019 | 4.79 | 23.338 | 0.045 |
| 20 | 24.880 | 35.024 | 4.83 | 23.398 | 0.090 |
| 30 | 24.864 | 35.025 | 4.73 | 23.404 | 0.135 |
| 40 | 24.849 | 35.033 | 4.56 | 23.414 | 0.180 |
| 50 | 24.424 | 35.124 | 4.37 | 23.611 | 0.225 |
| 60 | 18.979 | 35.203 | 2.98 | 25.183 | 0.257 |
| 70 | 16.208 | 35.098 | 2.38 | 25.776 | 0.282 |
| 80 | 15.165 | 35.068 | 1.92 | 25.989 | 0.303 |
| 90 | 14.250 | 35.007 | 1.91 | 26.140 | 0.322 |
| 100 | 14.098 | 34.995 | 1.81 | 26.163 | 0.341 |
| 110 | 13.979 | 34.979 | 1.68 | 26.176 | 0.360 |
| 120 | 13.796 | 34.970 | 1.66 | 26.208 | 0.378 |
| 130 | 13.667 | 34.962 | 1.65 | 26.228 | 0.397 |
| 140 | 13.554 | 34.956 | 1.64 | 26.246 | 0.415 |
| 150 | 13.449 | 34.944 | 1.60 | 26.259 | 0.433 |
| 160 | 13.405 | 34.940 | 1.71 | 26.265 | 0.451 |
| 170 | 13.349 | 34.937 | 1.75 | 26.274 | 0.469 |
| 180 | 13.305 | 34.935 | 1.66 | 26.282 | 0.486 |
| 190 | 13.191 | 34.931 | 1.46 | 26.301 | 0.504 |
| 200 | 13.075 | 34.923 | 1.03 | 26.318 | 0.522 |
| 250 | 12.566 | 34.898 | 0.37 | 26.400 | 0.608 |
| 300 | 11.774 | 34.856 | 0.14 | 26.521 | 0.690 |
| 350 | 10.511 | 34.775 | 0.13 | 26.868 | 0.765 |
| 400 | 9.394 | 34.708 | 0.55 | 26.826 | 0.833 |
| 450 | 8.633 | 34.661 | 1.03 | 26.911 | 0.896 |
| 500 | 8.075 | 34.633 | 1.01 | 26.974 | 0.955 |
| 550 | 7.534 | 34.609 | 1.00 | 27.035 | 1.012 |
| 600 | 6.971 | 34.586 | 1.02 | 27.097 | 1.067 |
| 650 | 6.603 | 34.571 | 1.20 | 27.135 | 1.119 |
| 700 | 6.175 | 34.559 | 1.58 | 27.182 | 1.169 |
| 750 | 5.886 | 34.550 | 1.64 | 27.211 | 1.217 |
| 800 | 5.547 | 34.547 | 1.89 | 27.251 | 1.264 |
| 900 | 4.997 | 34.547 | 1.81 | 27.317 | 1.353 |
| 1000 | 4.482 | 34.554 | 1.92 | 27.380 | 1.435 |
| 1011 | 4.450 | 34.554 | 1.89 | 27.384 | 1.444 |

CAST EP2-87-OC -033 DATE 26 OCT 87 TIME 0442 GMT
LAT 02 01.0S LONG 110 00.4W

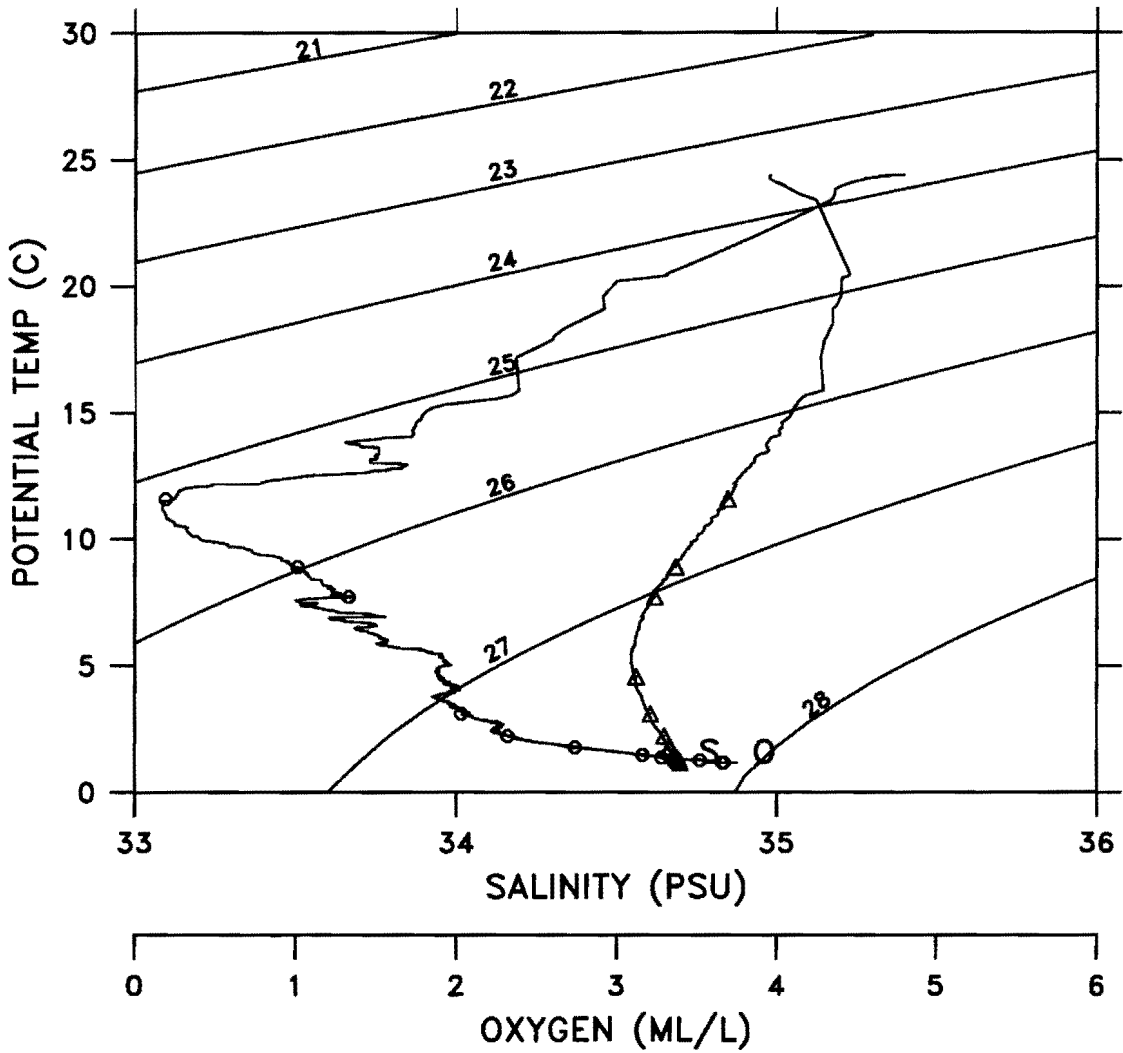


CAST EP2-87-OC -033 DATE 26 OCT 87 TIME 0442 GMT
 LAT 02 01.0S LONG 110 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 100 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 24.0 WET 23.2 DEPTH 3955 M

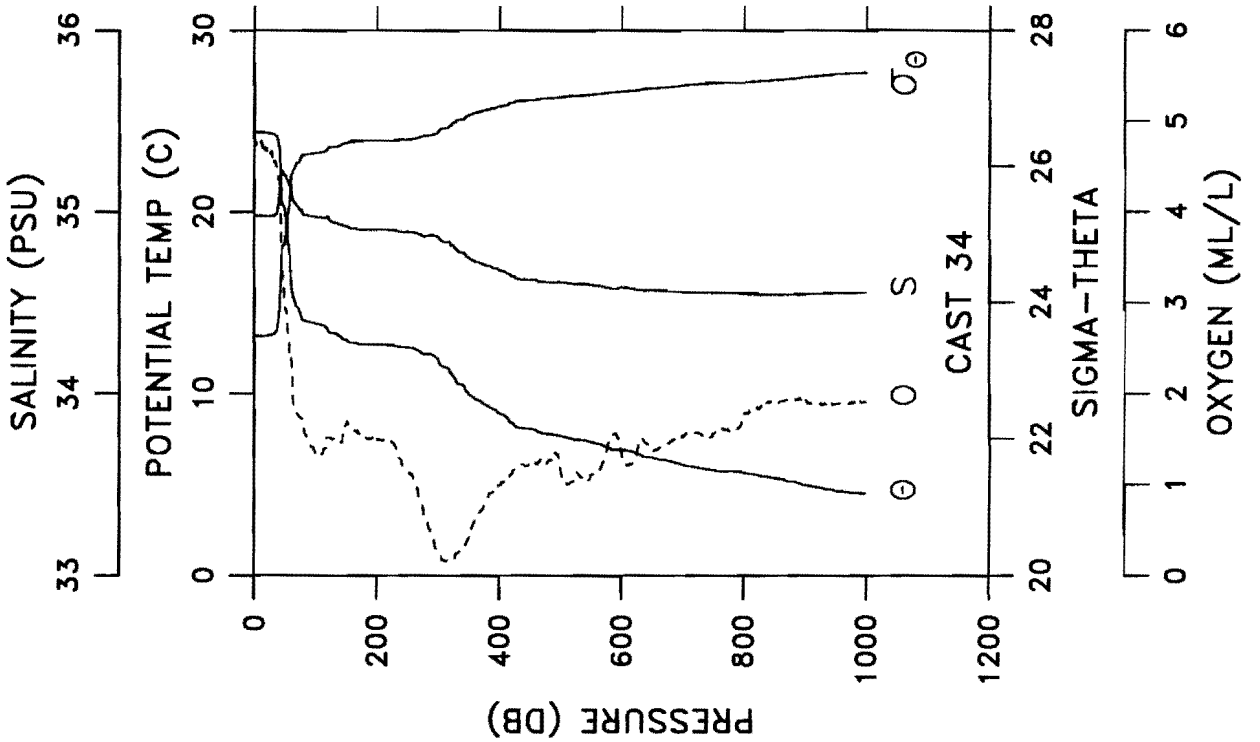


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.412 | 34.979 | 4.70 | 23.505 | 0.000 |
| 10 | 24.405 | 34.978 | 4.77 | 23.506 | 0.044 |
| 20 | 24.341 | 34.976 | 4.68 | 23.524 | 0.087 |
| 30 | 24.241 | 34.980 | 4.65 | 23.556 | 0.131 |
| 40 | 21.025 | 35.272 | 3.96 | 24.696 | 0.172 |
| 50 | 18.947 | 35.167 | 2.76 | 25.164 | 0.202 |
| 60 | 15.462 | 35.076 | 1.98 | 25.928 | 0.227 |
| 70 | 14.687 | 35.030 | 1.74 | 26.064 | 0.247 |
| 80 | 14.034 | 34.986 | 1.63 | 26.170 | 0.266 |
| 90 | 13.949 | 34.983 | 1.47 | 26.186 | 0.284 |
| 100 | 13.866 | 34.974 | 1.35 | 26.196 | 0.303 |
| 110 | 13.724 | 34.967 | 1.33 | 26.220 | 0.321 |
| 120 | 13.358 | 34.952 | 1.52 | 26.284 | 0.339 |
| 130 | 13.279 | 34.938 | 1.47 | 26.289 | 0.356 |
| 140 | 12.995 | 34.927 | 1.47 | 26.338 | 0.374 |
| 150 | 12.843 | 34.913 | 1.62 | 26.358 | 0.391 |
| 160 | 12.762 | 34.906 | 1.60 | 26.369 | 0.408 |
| 170 | 12.720 | 34.904 | 1.56 | 26.375 | 0.425 |
| 180 | 12.700 | 34.902 | 1.51 | 26.378 | 0.442 |
| 190 | 12.697 | 34.902 | 1.51 | 26.378 | 0.459 |
| 200 | 12.695 | 34.902 | 1.52 | 26.379 | 0.476 |
| 250 | 12.541 | 34.890 | 1.15 | 26.399 | 0.560 |
| 252 | 12.537 | 34.889 | 1.14 | 26.399 | 0.563 |

CAST EP2-87-OC -034 DATE 26 OCT 87 TIME 0723 GMT
LAT 02 04.3S LONG 110 02.1W

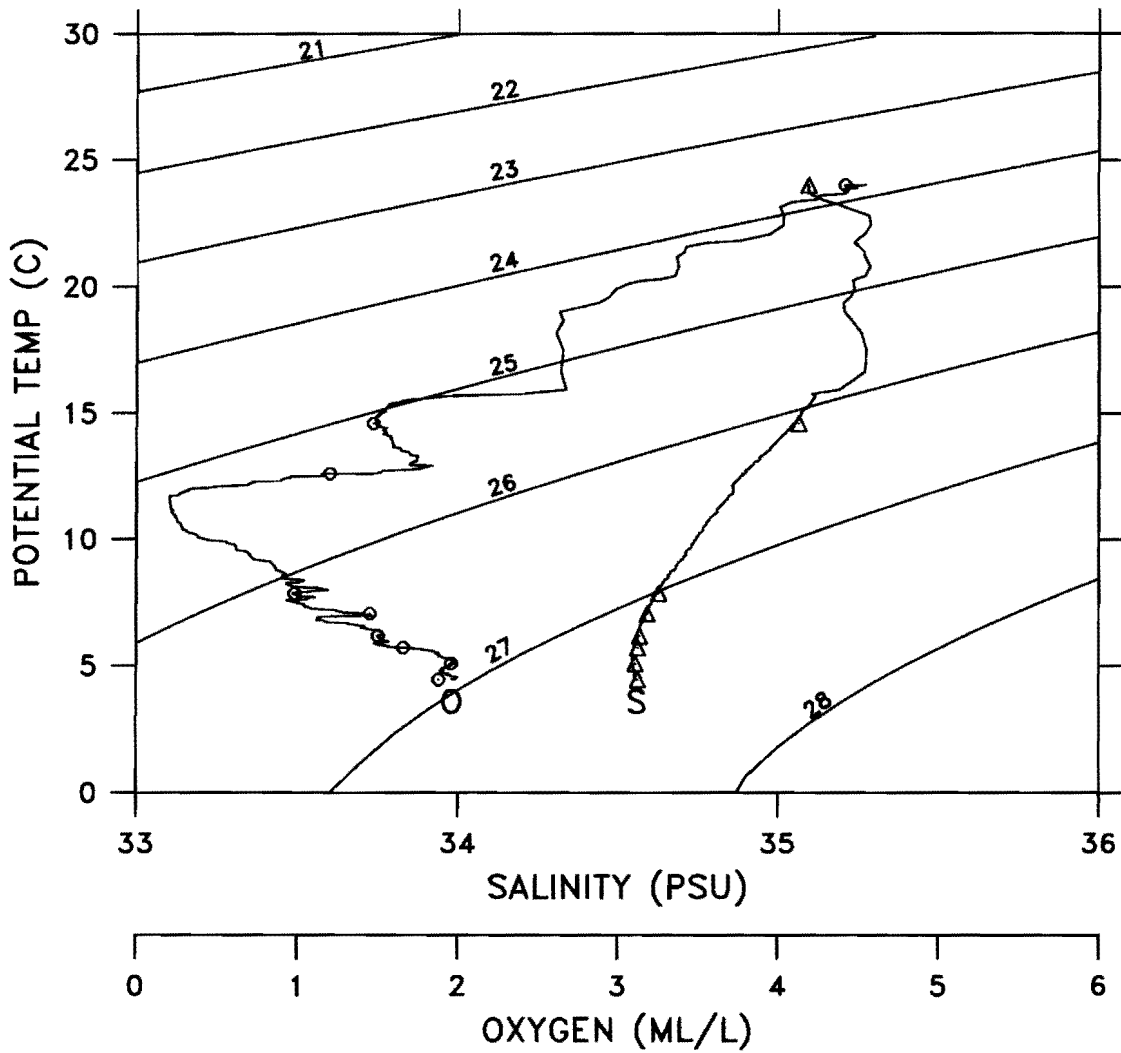


CAST EP2-87-OC -034 DATE 26 OCT 87 TIME 0723 GMT
 LAT 02 04.3S LONG 110 02.1W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 110 T SPD 13 KT VISIBILITY 8
 CLOUD 1 AMOUNT 3 DRY 24.0 WET 22.7 DEPTH 3928 M

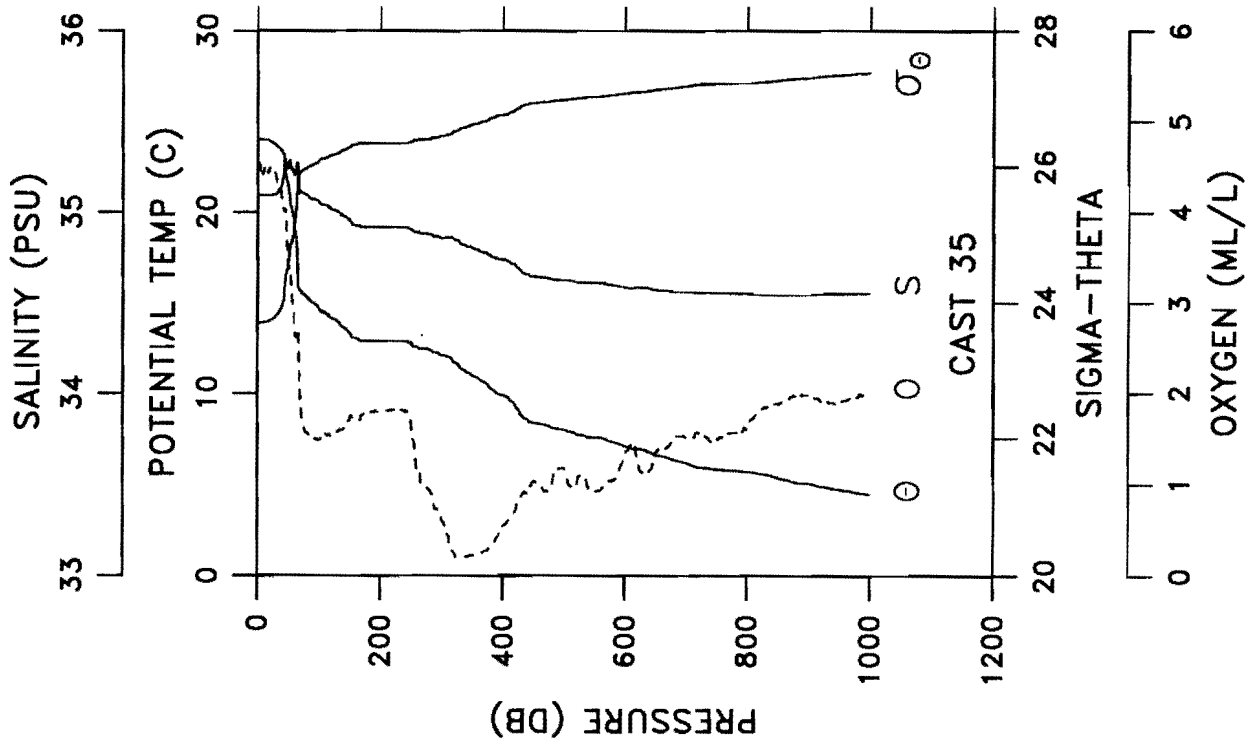


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.386 | 34.979 | 4.80 | 23.513 | 0.000 |
| 10 | 24.389 | 34.979 | 4.74 | 23.511 | 0.044 |
| 20 | 24.365 | 34.978 | 4.70 | 23.518 | 0.087 |
| 30 | 24.298 | 34.977 | 4.61 | 23.537 | 0.131 |
| 40 | 23.637 | 35.074 | 4.36 | 23.806 | 0.174 |
| 50 | 19.905 | 35.202 | 2.96 | 24.942 | 0.208 |
| 60 | 15.876 | 35.145 | 2.39 | 25.888 | 0.234 |
| 70 | 14.742 | 35.031 | 1.78 | 26.053 | 0.255 |
| 80 | 14.025 | 34.984 | 1.64 | 26.170 | 0.274 |
| 90 | 13.941 | 34.978 | 1.48 | 26.183 | 0.292 |
| 100 | 13.845 | 34.972 | 1.36 | 26.198 | 0.311 |
| 110 | 13.769 | 34.968 | 1.34 | 26.211 | 0.329 |
| 120 | 13.489 | 34.975 | 1.52 | 26.275 | 0.347 |
| 130 | 13.318 | 34.941 | 1.50 | 26.284 | 0.365 |
| 140 | 13.155 | 34.929 | 1.48 | 26.307 | 0.383 |
| 150 | 12.957 | 34.920 | 1.65 | 26.340 | 0.400 |
| 160 | 12.796 | 34.908 | 1.60 | 26.363 | 0.417 |
| 170 | 12.735 | 34.905 | 1.56 | 26.372 | 0.434 |
| 180 | 12.699 | 34.901 | 1.52 | 26.377 | 0.451 |
| 190 | 12.696 | 34.901 | 1.50 | 26.377 | 0.468 |
| 200 | 12.690 | 34.901 | 1.49 | 26.378 | 0.485 |
| 250 | 12.542 | 34.889 | 1.16 | 26.398 | 0.569 |
| 300 | 11.864 | 34.861 | 0.27 | 26.508 | 0.652 |
| 350 | 9.947 | 34.746 | 0.42 | 26.763 | 0.726 |
| 400 | 8.898 | 34.677 | 0.99 | 26.882 | 0.791 |
| 450 | 8.054 | 34.626 | 1.22 | 26.972 | 0.850 |
| 500 | 7.680 | 34.609 | 1.19 | 27.015 | 0.907 |
| 550 | 7.331 | 34.597 | 1.11 | 27.055 | 0.962 |
| 600 | 6.909 | 34.583 | 1.35 | 27.103 | 1.016 |
| 650 | 6.497 | 34.569 | 1.38 | 27.148 | 1.067 |
| 700 | 6.095 | 34.558 | 1.52 | 27.192 | 1.117 |
| 750 | 5.797 | 34.554 | 1.56 | 27.226 | 1.164 |
| 800 | 5.656 | 34.547 | 1.72 | 27.238 | 1.211 |
| 900 | 4.987 | 34.547 | 1.94 | 27.318 | 1.301 |
| 1000 | 4.505 | 34.555 | 1.90 | 27.379 | 1.383 |
| 1500 | 3.032 | 34.600 | 2.07 | 27.563 | 1.738 |
| 2000 | 2.198 | 34.642 | 2.33 | 27.669 | 2.022 |
| 2500 | 1.754 | 34.660 | 2.77 | 27.719 | 2.273 |
| 3000 | 1.465 | 34.673 | 3.19 | 27.751 | 2.507 |
| 3500 | 1.263 | 34.687 | 3.55 | 27.776 | 2.732 |
| 3941 | 1.155 | 34.693 | 3.72 | 27.788 | 2.924 |

CAST EP2-87-OC -035 DATE 27 OCT 87 TIME 0613 GMT
LAT 01 29.9S LONG 110 00.2W

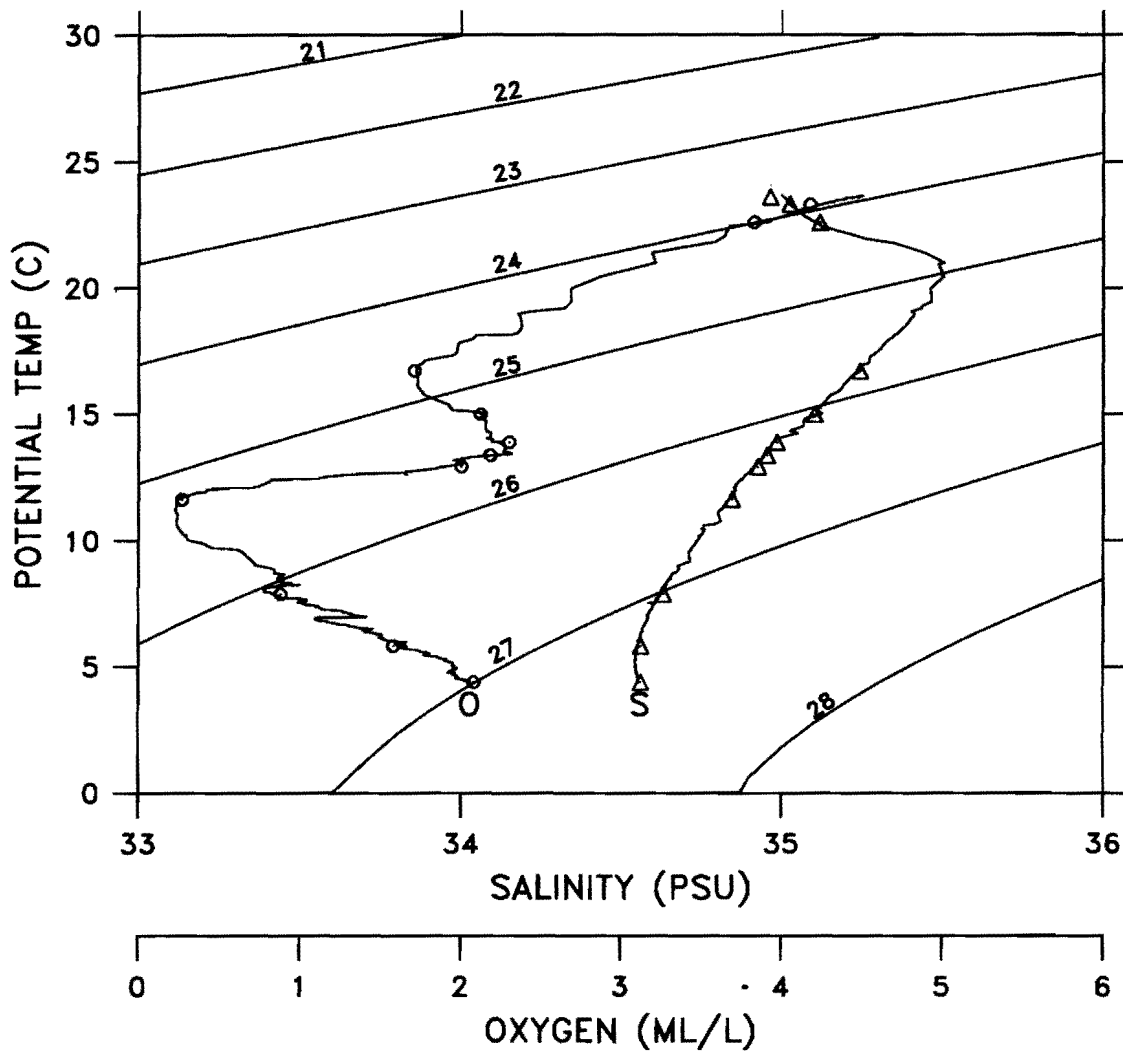


CAST EP2-87-0C -035 DATE 27 OCT 87 TIME 0613 GMT
 LAT 01 29.9S LONG 110 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 115 T SPD 12 KT VISIBILITY 8
 CLOUD 1 AMOUNT 2 DRY 24.0 WET 22.7 DEPTH 3876 M

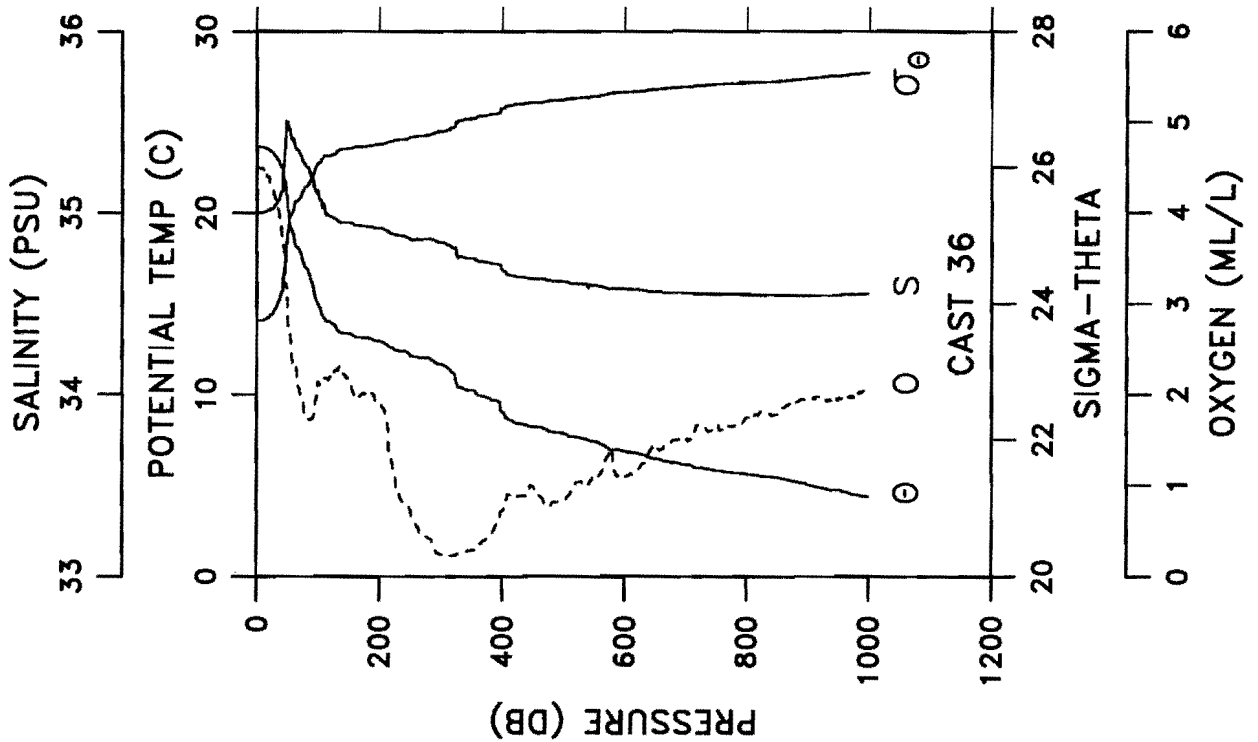


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 24.026 | 35.094 | 4.54 | 23.707 | 0.000 |
| 10 | 23.997 | 35.093 | 4.45 | 23.715 | 0.042 |
| 20 | 23.892 | 35.093 | 4.49 | 23.746 | 0.084 |
| 30 | 23.669 | 35.100 | 4.40 | 23.816 | 0.125 |
| 40 | 23.332 | 35.164 | 4.08 | 23.964 | 0.165 |
| 50 | 21.356 | 35.269 | 3.41 | 24.602 | 0.202 |
| 60 | 19.004 | 35.207 | 2.64 | 25.179 | 0.232 |
| 70 | 15.621 | 35.115 | 1.87 | 25.923 | 0.256 |
| 80 | 15.307 | 35.096 | 1.56 | 25.979 | 0.277 |
| 90 | 15.007 | 35.073 | 1.51 | 26.027 | 0.297 |
| 100 | 14.655 | 35.057 | 1.49 | 26.092 | 0.317 |
| 110 | 14.430 | 35.040 | 1.53 | 26.127 | 0.336 |
| 120 | 14.153 | 35.016 | 1.54 | 26.168 | 0.355 |
| 130 | 13.977 | 35.003 | 1.57 | 26.195 | 0.373 |
| 140 | 13.641 | 34.977 | 1.60 | 26.245 | 0.392 |
| 150 | 13.341 | 34.954 | 1.70 | 26.289 | 0.409 |
| 160 | 13.050 | 34.927 | 1.72 | 26.327 | 0.427 |
| 170 | 12.925 | 34.917 | 1.76 | 26.345 | 0.444 |
| 180 | 12.920 | 34.917 | 1.79 | 26.346 | 0.461 |
| 190 | 12.916 | 34.917 | 1.79 | 26.346 | 0.478 |
| 200 | 12.913 | 34.917 | 1.81 | 26.347 | 0.496 |
| 250 | 12.767 | 34.904 | 1.71 | 26.366 | 0.582 |
| 300 | 12.126 | 34.857 | 0.62 | 26.454 | 0.666 |
| 350 | 10.990 | 34.802 | 0.23 | 26.624 | 0.745 |
| 400 | 9.909 | 34.739 | 0.55 | 26.764 | 0.816 |
| 450 | 8.383 | 34.646 | 1.04 | 26.938 | 0.880 |
| 500 | 7.990 | 34.626 | 1.17 | 26.982 | 0.939 |
| 550 | 7.593 | 34.610 | 0.94 | 27.028 | 0.996 |
| 600 | 7.104 | 34.585 | 1.28 | 27.077 | 1.051 |
| 650 | 6.619 | 34.572 | 1.34 | 27.134 | 1.103 |
| 700 | 6.203 | 34.561 | 1.51 | 27.180 | 1.154 |
| 750 | 5.851 | 34.557 | 1.48 | 27.222 | 1.201 |
| 800 | 5.710 | 34.551 | 1.60 | 27.234 | 1.248 |
| 900 | 5.080 | 34.546 | 1.97 | 27.306 | 1.339 |
| 1000 | 4.465 | 34.557 | 1.97 | 27.384 | 1.422 |
| 1007 | 4.446 | 34.556 | 1.96 | 27.386 | 1.427 |

CAST EP2-87-OC -036 DATE 27 OCT 87 TIME 0952 GMT
LAT 00 59.9S LONG 110 00.0W

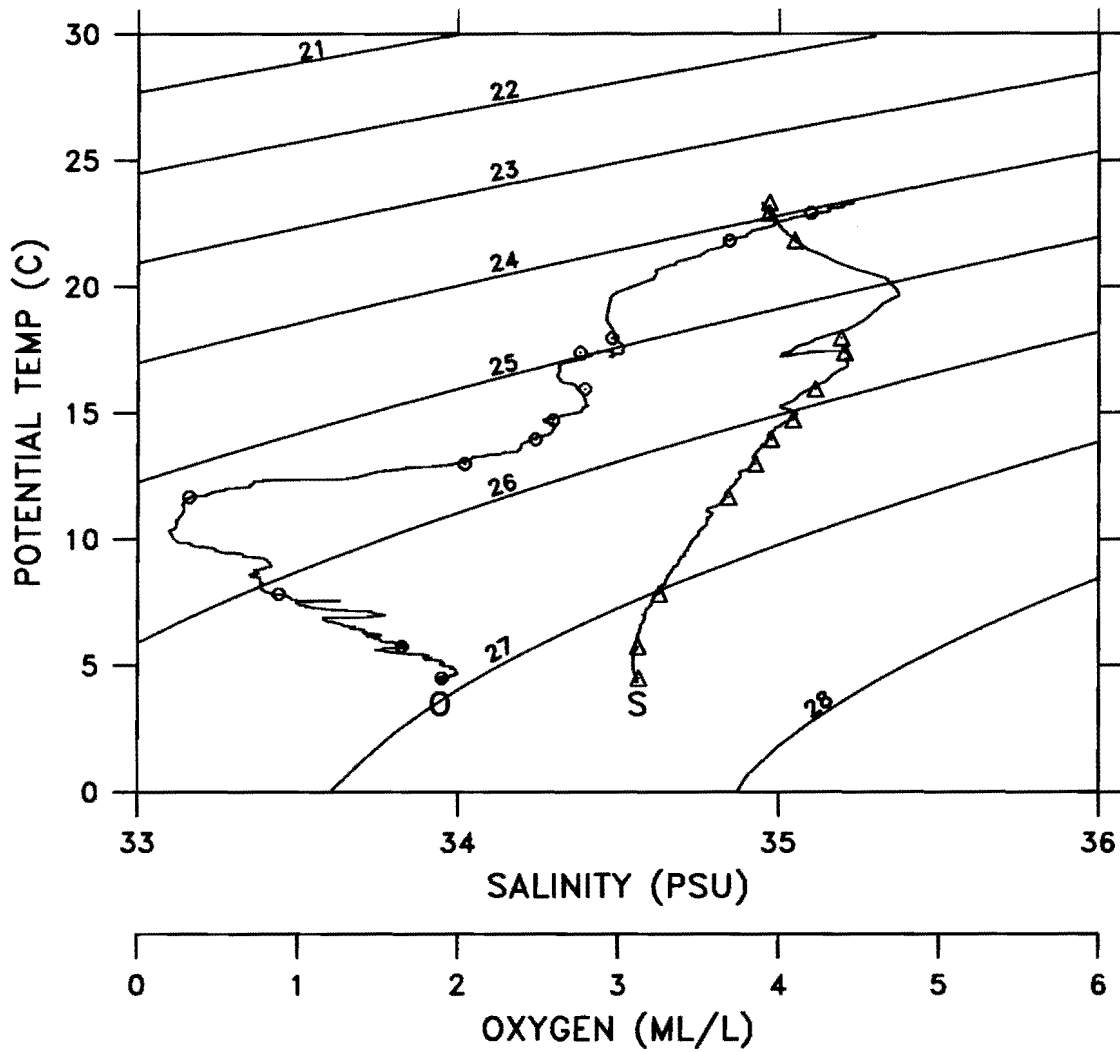


CAST EP2-87-0C -036 DATE 27 OCT 87 TIME 0952 GMT
 LAT 00 59.9S LONG 110 00.0W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 130 T SPD 08 KT VISIBILITY 9
 CLOUD 0 AMOUNT 2 DRY 23.5 WET 22.0 DEPTH 3961 M

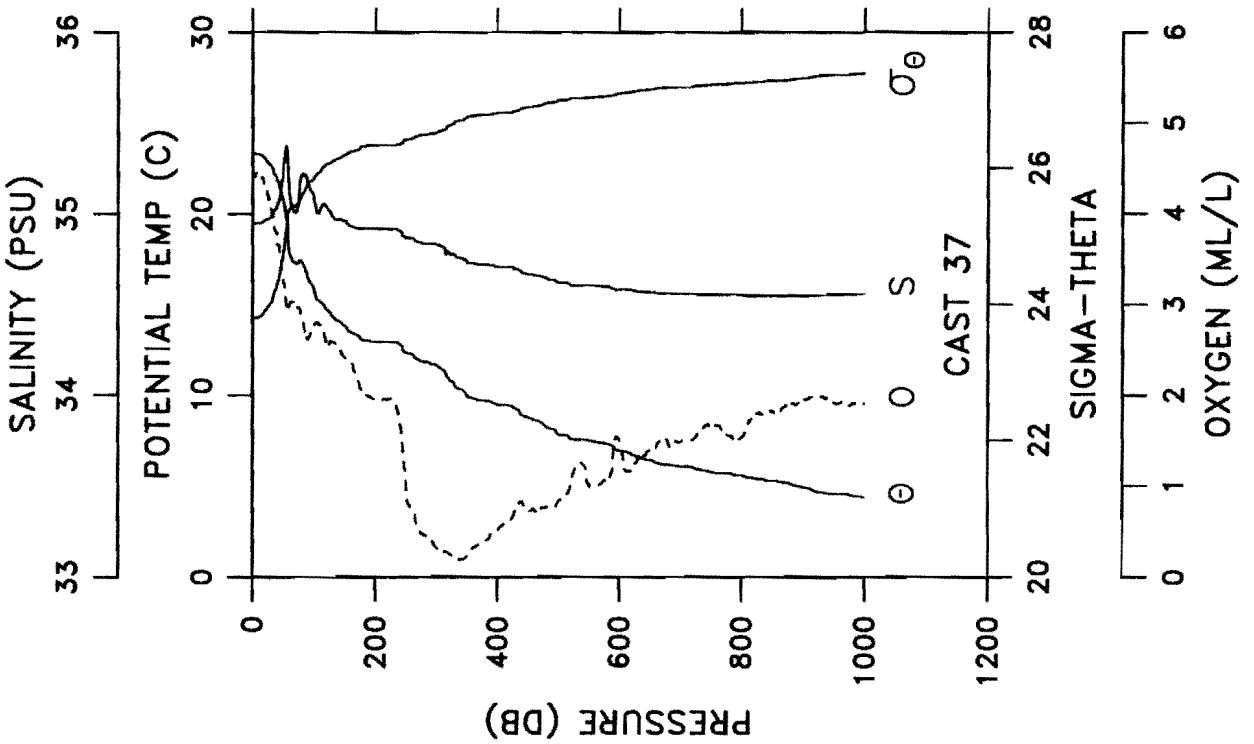


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.651 | 35.002 | 4.50 | 23.748 | 0.000 |
| 10 | 23.634 | 35.003 | 4.50 | 23.753 | 0.041 |
| 20 | 23.514 | 35.014 | 4.40 | 23.796 | 0.083 |
| 30 | 23.164 | 35.040 | 4.17 | 23.918 | 0.123 |
| 40 | 22.519 | 35.121 | 3.80 | 24.165 | 0.162 |
| 50 | 20.452 | 35.505 | 2.88 | 25.028 | 0.196 |
| 60 | 18.791 | 35.404 | 2.37 | 25.384 | 0.223 |
| 70 | 17.900 | 35.328 | 2.03 | 25.549 | 0.248 |
| 80 | 16.983 | 35.257 | 1.75 | 25.716 | 0.272 |
| 90 | 16.161 | 35.194 | 1.73 | 25.861 | 0.294 |
| 100 | 14.921 | 35.106 | 2.14 | 26.072 | 0.315 |
| 110 | 14.179 | 35.032 | 2.18 | 26.175 | 0.334 |
| 120 | 13.976 | 34.980 | 2.19 | 26.178 | 0.353 |
| 130 | 13.640 | 34.965 | 2.27 | 26.236 | 0.371 |
| 140 | 13.381 | 34.945 | 2.25 | 26.274 | 0.389 |
| 150 | 13.345 | 34.946 | 2.15 | 26.282 | 0.407 |
| 160 | 13.167 | 34.932 | 1.96 | 26.307 | 0.424 |
| 170 | 13.156 | 34.930 | 1.99 | 26.308 | 0.442 |
| 180 | 13.098 | 34.926 | 2.03 | 26.316 | 0.460 |
| 190 | 12.995 | 34.920 | 2.01 | 26.333 | 0.477 |
| 200 | 12.933 | 34.917 | 1.91 | 26.343 | 0.494 |
| 250 | 12.144 | 34.855 | 0.74 | 26.450 | 0.578 |
| 300 | 11.655 | 34.839 | 0.25 | 26.530 | 0.659 |
| 350 | 10.228 | 34.750 | 0.30 | 26.718 | 0.733 |
| 400 | 9.029 | 34.687 | 0.72 | 26.868 | 0.800 |
| 450 | 8.226 | 34.637 | 0.99 | 26.955 | 0.860 |
| 500 | 7.870 | 34.623 | 0.84 | 26.997 | 0.918 |
| 550 | 7.414 | 34.600 | 1.09 | 27.046 | 0.974 |
| 600 | 6.880 | 34.584 | 1.11 | 27.108 | 1.027 |
| 650 | 6.480 | 34.568 | 1.44 | 27.149 | 1.079 |
| 700 | 6.141 | 34.560 | 1.50 | 27.187 | 1.128 |
| 750 | 5.812 | 34.553 | 1.65 | 27.223 | 1.176 |
| 800 | 5.621 | 34.551 | 1.74 | 27.246 | 1.223 |
| 900 | 5.039 | 34.547 | 1.96 | 27.312 | 1.313 |
| 1000 | 4.384 | 34.555 | 2.05 | 27.392 | 1.396 |
| 1010 | 4.367 | 34.556 | 2.05 | 27.394 | 1.404 |

CAST EP2-87-OC -037 DATE 27 OCT 87 TIME 1410 GMT
LAT 00 30.1S LONG 109 59.9W

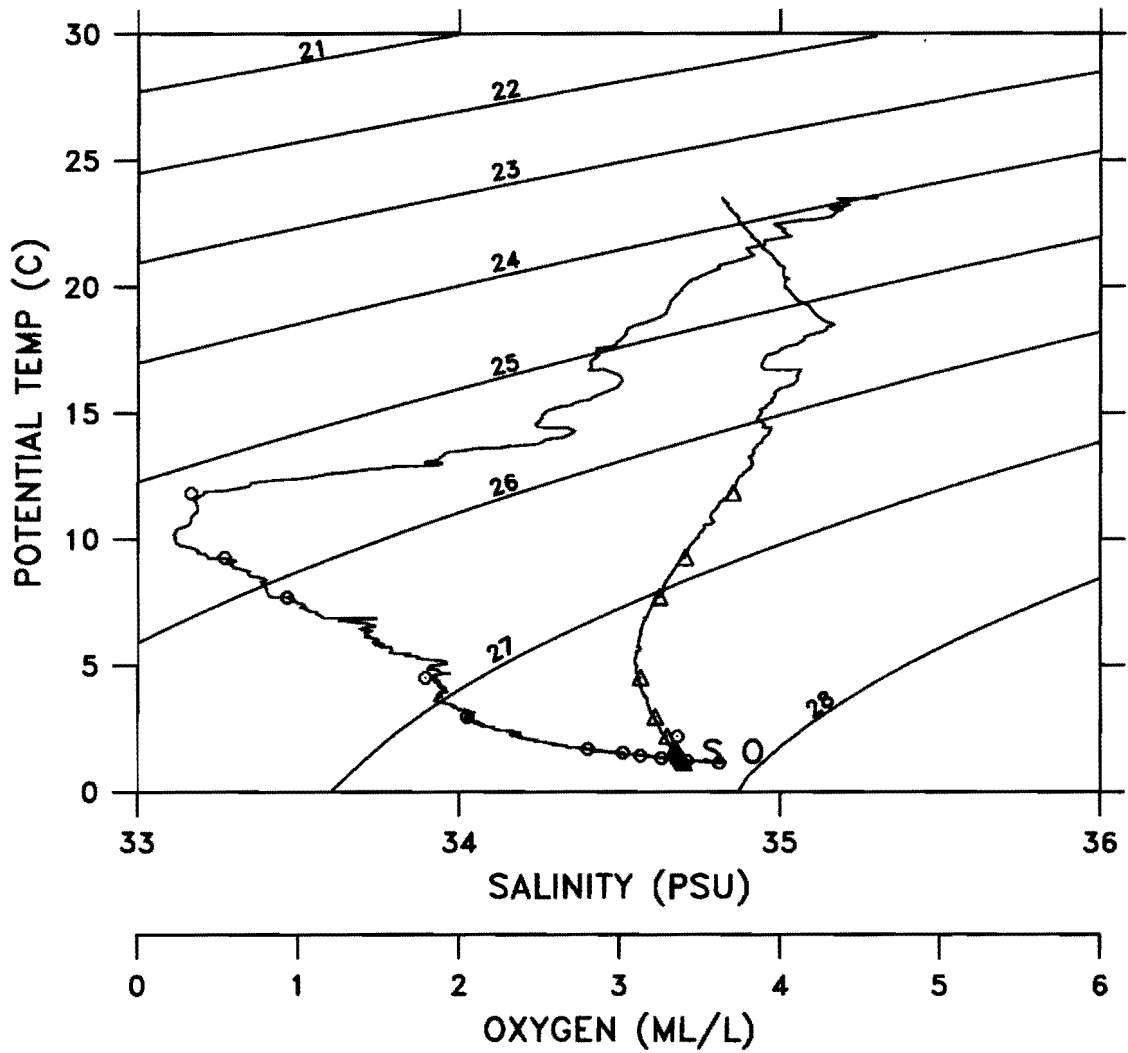


CAST EP2-87-0C -037 DATE 27 OCT 87 TIME 1410 GMT
 LAT 00 30.1S LONG 109 59.9W WEATHER 8 SEA STATE 2
 BAROMETER 14 WIND DIR 135 T SPD 10 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 23.9 WET 22.7 DEPTH 3530 M

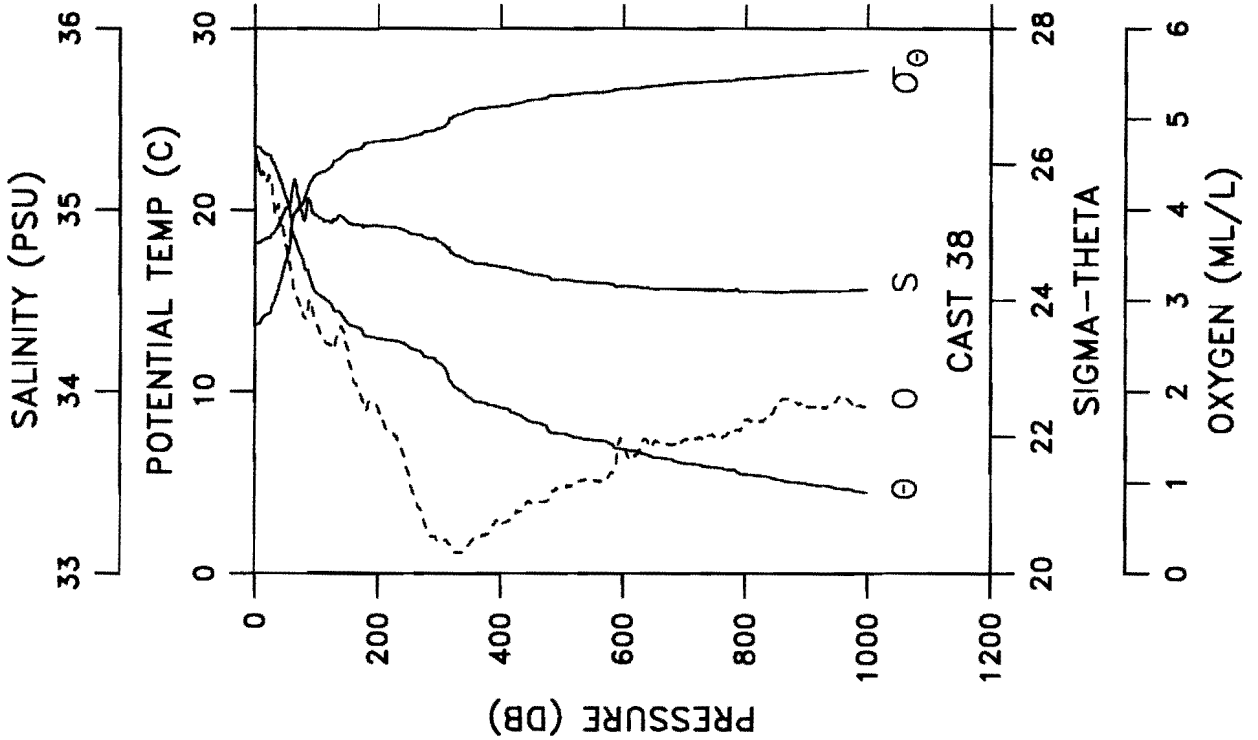


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.314 | 34.948 | 4.39 | 23.805 | 0.000 |
| 10 | 23.299 | 34.949 | 4.46 | 23.810 | 0.041 |
| 20 | 23.038 | 34.966 | 4.31 | 23.899 | 0.081 |
| 30 | 22.672 | 34.982 | 4.07 | 24.016 | 0.121 |
| 40 | 21.819 | 35.052 | 3.66 | 24.310 | 0.159 |
| 50 | 20.641 | 35.248 | 3.23 | 24.782 | 0.193 |
| 60 | 17.818 | 35.105 | 3.00 | 25.398 | 0.221 |
| 70 | 17.260 | 35.009 | 2.96 | 25.460 | 0.247 |
| 80 | 17.329 | 35.216 | 2.83 | 25.602 | 0.272 |
| 90 | 16.415 | 35.162 | 2.62 | 25.777 | 0.295 |
| 100 | 15.748 | 35.068 | 2.78 | 25.858 | 0.317 |
| 110 | 15.150 | 35.021 | 2.77 | 25.956 | 0.338 |
| 120 | 14.732 | 35.039 | 2.53 | 26.061 | 0.358 |
| 130 | 14.328 | 34.987 | 2.59 | 26.108 | 0.378 |
| 140 | 14.105 | 34.970 | 2.55 | 26.143 | 0.397 |
| 150 | 13.830 | 34.960 | 2.42 | 26.193 | 0.416 |
| 160 | 13.464 | 34.934 | 2.37 | 26.248 | 0.434 |
| 170 | 13.319 | 34.922 | 2.18 | 26.268 | 0.452 |
| 180 | 13.032 | 34.919 | 2.00 | 26.324 | 0.470 |
| 190 | 13.001 | 34.918 | 1.99 | 26.330 | 0.487 |
| 200 | 12.959 | 34.917 | 1.96 | 26.337 | 0.505 |
| 250 | 12.354 | 34.867 | 0.99 | 26.418 | 0.591 |
| 300 | 11.669 | 34.831 | 0.33 | 26.521 | 0.672 |
| 350 | 10.006 | 34.736 | 0.23 | 26.745 | 0.746 |
| 400 | 9.481 | 34.708 | 0.52 | 26.812 | 0.812 |
| 450 | 8.771 | 34.668 | 0.73 | 26.895 | 0.877 |
| 500 | 7.843 | 34.622 | 0.84 | 27.000 | 0.937 |
| 550 | 7.509 | 34.607 | 1.01 | 27.038 | 0.993 |
| 600 | 6.940 | 34.581 | 1.51 | 27.097 | 1.047 |
| 650 | 6.415 | 34.567 | 1.39 | 27.157 | 1.099 |
| 700 | 6.069 | 34.559 | 1.48 | 27.196 | 1.148 |
| 750 | 5.779 | 34.553 | 1.64 | 27.228 | 1.195 |
| 800 | 5.584 | 34.554 | 1.53 | 27.252 | 1.242 |
| 900 | 4.918 | 34.548 | 1.97 | 27.326 | 1.330 |
| 1000 | 4.375 | 34.559 | 1.91 | 27.396 | 1.411 |
| 1007 | 4.343 | 34.560 | 1.89 | 27.400 | 1.416 |

CAST EP2-87-0C -038 DATE 28 OCT 87 TIME 0908 GMT
LAT 00 03.6S LONG 109 51.9W

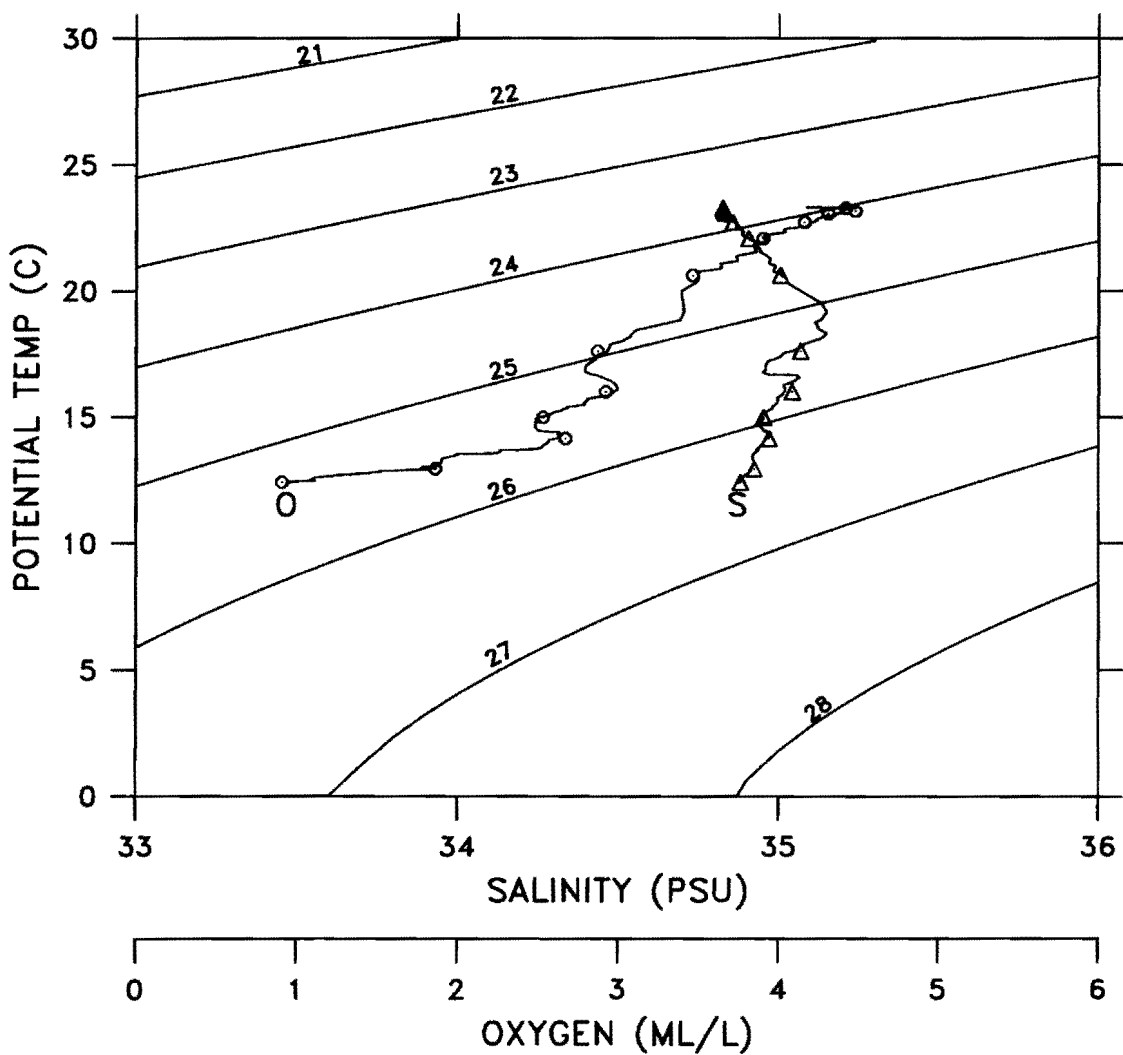


CAST EP2-87-OC -038 DATE 28 OCT 87 TIME 0908 GMT
 LAT 00 03.6S LONG 109 51.9W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 190 T SPD 04 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 22.9 WET 22.0 DEPTH 3773 M

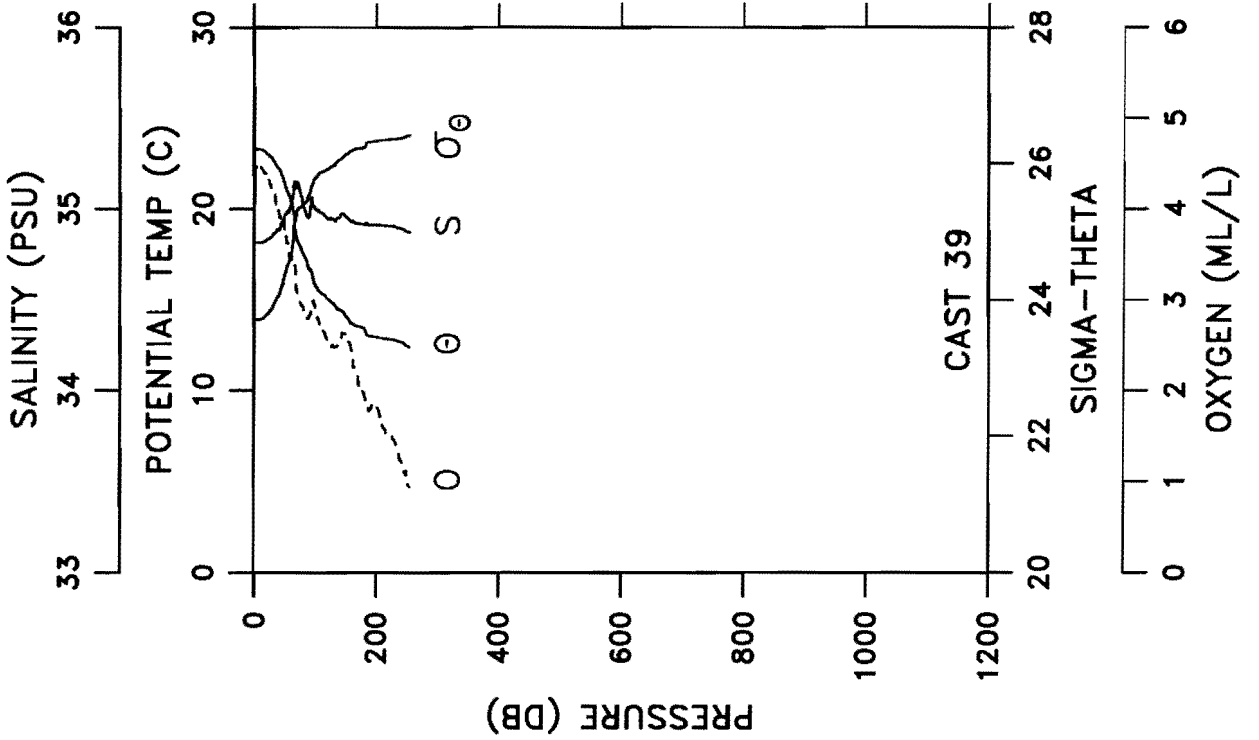


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.486 | 34.818 | 4.60 | 23.656 | 0.000 |
| 10 | 23.316 | 34.824 | 4.38 | 23.710 | 0.042 |
| 20 | 23.045 | 34.844 | 4.33 | 23.804 | 0.083 |
| 30 | 22.590 | 34.869 | 4.11 | 23.953 | 0.124 |
| 40 | 21.711 | 34.934 | 3.90 | 24.250 | 0.162 |
| 50 | 20.711 | 35.012 | 3.62 | 24.583 | 0.197 |
| 60 | 18.908 | 35.108 | 3.28 | 25.128 | 0.229 |
| 70 | 17.890 | 35.074 | 3.00 | 25.357 | 0.256 |
| 80 | 16.877 | 34.940 | 2.82 | 25.498 | 0.282 |
| 90 | 16.136 | 35.039 | 3.00 | 25.747 | 0.306 |
| 100 | 15.435 | 34.974 | 2.74 | 25.856 | 0.328 |
| 110 | 15.180 | 34.947 | 2.60 | 25.892 | 0.350 |
| 120 | 14.938 | 34.939 | 2.52 | 25.940 | 0.371 |
| 130 | 14.429 | 34.943 | 2.51 | 26.052 | 0.391 |
| 140 | 14.256 | 34.985 | 2.71 | 26.106 | 0.411 |
| 150 | 13.772 | 34.932 | 2.49 | 26.183 | 0.430 |
| 160 | 13.594 | 34.918 | 2.12 | 26.209 | 0.449 |
| 170 | 13.492 | 34.915 | 2.01 | 26.227 | 0.467 |
| 180 | 13.045 | 34.910 | 1.79 | 26.315 | 0.485 |
| 190 | 12.996 | 34.911 | 1.89 | 26.325 | 0.502 |
| 200 | 12.916 | 34.912 | 1.80 | 26.342 | 0.520 |
| 250 | 12.466 | 34.875 | 1.10 | 26.402 | 0.606 |
| 300 | 11.582 | 34.823 | 0.34 | 26.531 | 0.687 |
| 350 | 9.653 | 34.715 | 0.33 | 26.789 | 0.758 |
| 400 | 9.102 | 34.686 | 0.58 | 26.856 | 0.823 |
| 450 | 8.329 | 34.646 | 0.78 | 26.946 | 0.885 |
| 500 | 7.688 | 34.614 | 0.95 | 27.017 | 0.942 |
| 550 | 7.325 | 34.600 | 1.03 | 27.058 | 0.997 |
| 600 | 6.830 | 34.579 | 1.38 | 27.111 | 1.051 |
| 650 | 6.391 | 34.565 | 1.42 | 27.159 | 1.102 |
| 700 | 6.068 | 34.560 | 1.47 | 27.197 | 1.151 |
| 750 | 5.837 | 34.558 | 1.50 | 27.224 | 1.199 |
| 800 | 5.467 | 34.550 | 1.69 | 27.264 | 1.245 |
| 900 | 4.994 | 34.550 | 1.82 | 27.319 | 1.333 |
| 1000 | 4.467 | 34.558 | 1.84 | 27.385 | 1.416 |
| 1500 | 2.967 | 34.605 | 2.06 | 27.573 | 1.762 |
| 2000 | 2.203 | 34.640 | 2.38 | 27.667 | 2.042 |
| 2500 | 1.703 | 34.664 | 2.80 | 27.726 | 2.291 |
| 3000 | 1.438 | 34.677 | 3.13 | 27.756 | 2.522 |
| 3500 | 1.245 | 34.688 | 3.42 | 27.778 | 2.746 |
| 3781 | 1.157 | 34.693 | 3.63 | 27.788 | 2.868 |

CAST EP2-87-OC -039 DATE 28 OCT 87 TIME 1146 GMT
LAT 00 00.3S LONG 109 52.0W



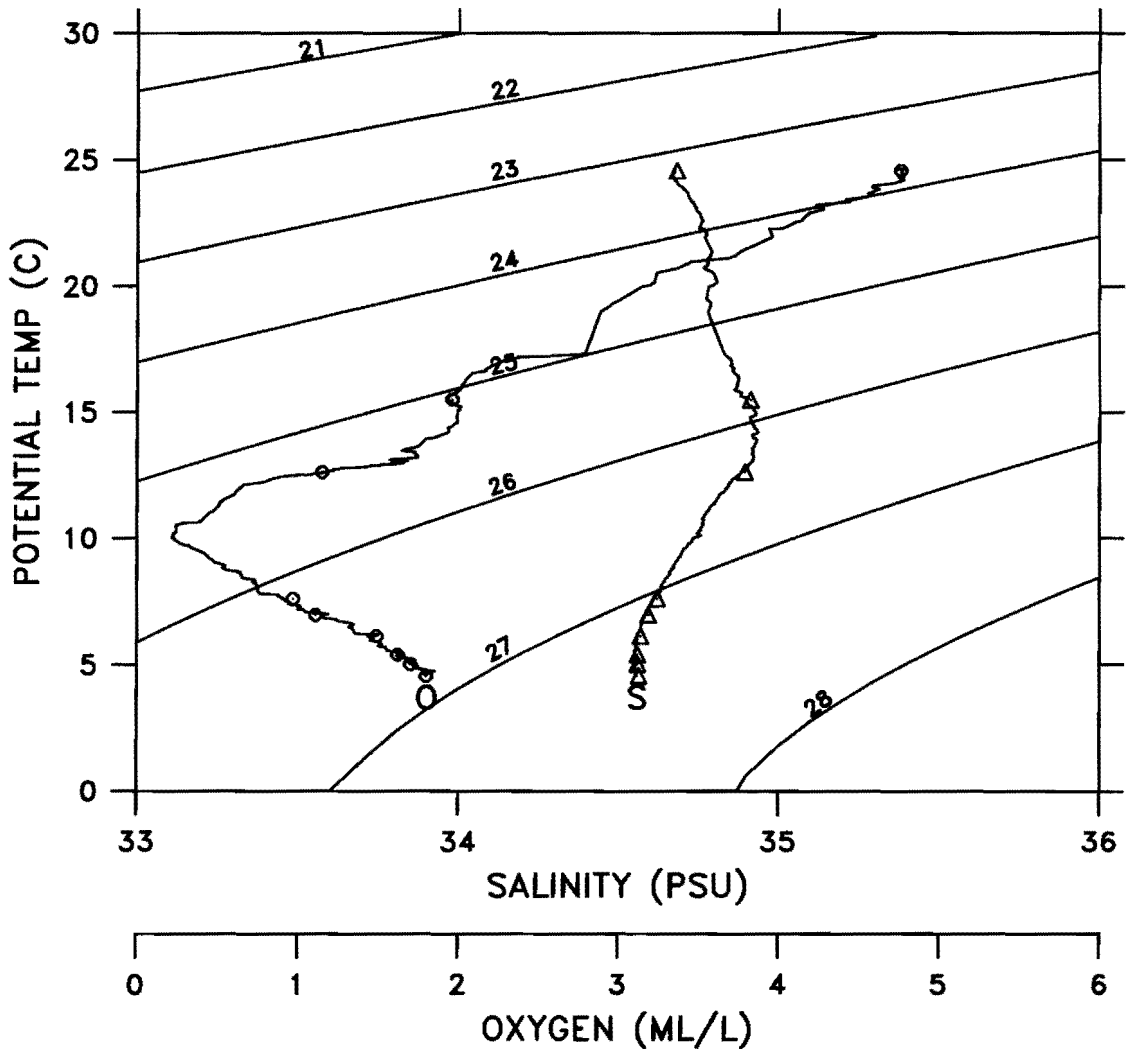
CAST EP2-87-OC -039 DATE 28 OCT 87 TIME 1146 GMT
 LAT 00 00.3S LONG 108 52.0W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 130 T SPD 06 KT VISIBILITY 9
 CLOUD 0 AMOUNT 3 DRY 22.9 WET 22.0 DEPTH 3722 M



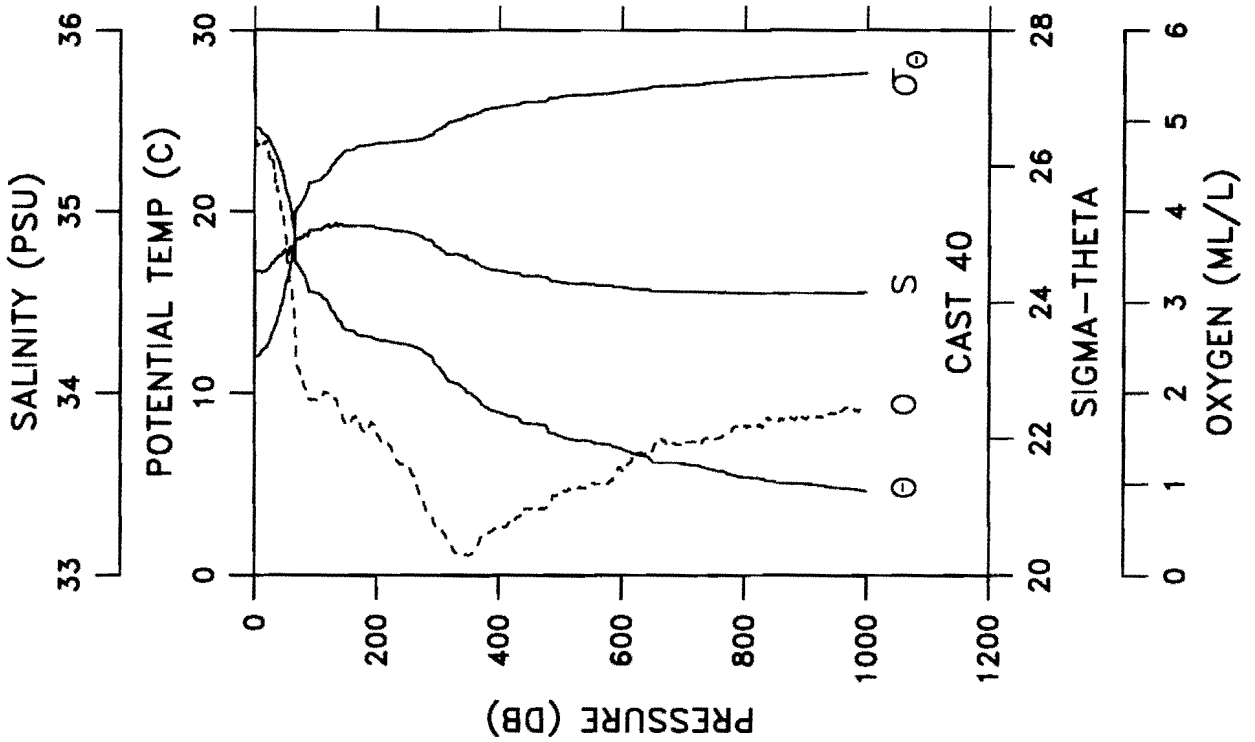
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.304 | 34.818 | 4.17 | 23.710 | 0.000 |
| 10 | 23.290 | 34.816 | 4.47 | 23.712 | 0.042 |
| 20 | 23.104 | 34.830 | 4.40 | 23.776 | 0.083 |
| 30 | 22.795 | 34.853 | 4.24 | 23.883 | 0.124 |
| 40 | 22.266 | 34.885 | 3.98 | 24.057 | 0.163 |
| 50 | 21.381 | 34.962 | 3.73 | 24.362 | 0.201 |
| 60 | 20.459 | 35.023 | 3.50 | 24.659 | 0.235 |
| 70 | 18.340 | 35.149 | 3.09 | 25.303 | 0.265 |
| 80 | 17.575 | 35.019 | 2.92 | 25.392 | 0.292 |
| 90 | 16.722 | 34.956 | 2.82 | 25.547 | 0.317 |
| 100 | 15.835 | 35.002 | 2.82 | 25.788 | 0.340 |
| 110 | 15.399 | 34.979 | 2.68 | 25.868 | 0.362 |
| 120 | 15.061 | 34.947 | 2.55 | 25.919 | 0.384 |
| 130 | 14.794 | 34.944 | 2.48 | 25.974 | 0.405 |
| 140 | 14.453 | 34.953 | 2.51 | 26.055 | 0.425 |
| 150 | 14.097 | 34.957 | 2.57 | 26.134 | 0.444 |
| 160 | 13.710 | 34.930 | 2.39 | 26.195 | 0.463 |
| 170 | 13.548 | 34.921 | 2.16 | 26.221 | 0.482 |
| 180 | 13.447 | 34.916 | 1.97 | 26.238 | 0.500 |
| 190 | 13.005 | 34.912 | 1.79 | 26.325 | 0.518 |
| 200 | 12.970 | 34.914 | 1.81 | 26.333 | 0.535 |
| 250 | 12.451 | 34.875 | 0.99 | 26.405 | 0.621 |
| 255 | 12.392 | 34.871 | 0.94 | 26.414 | 0.629 |

CAST EP2-87-OC -040 DATE 28 OCT 87 TIME 2315 GMT

LAT 00 29.3N LONG 109 59.7W

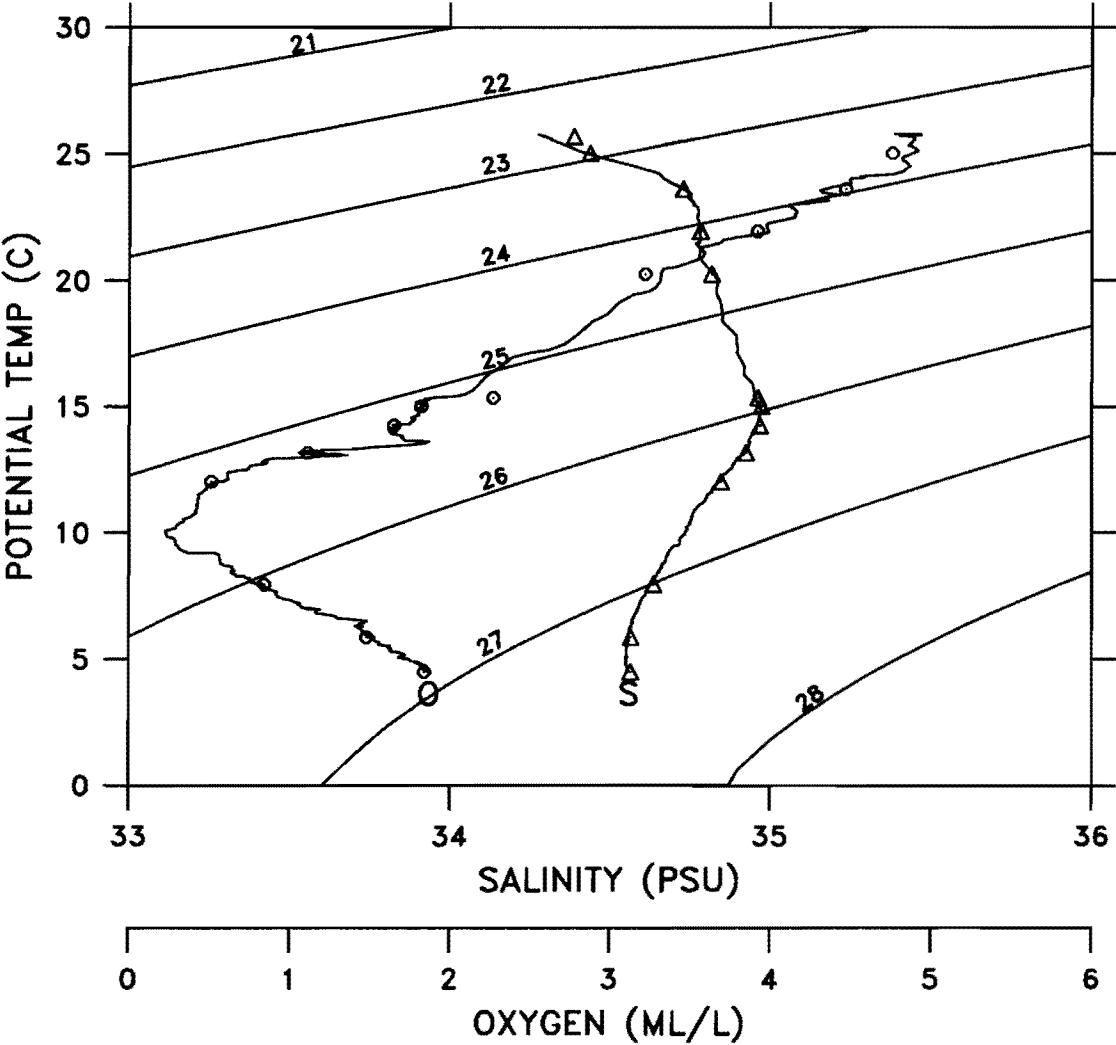


CAST EP2-87-0C -040 DATE 28 OCT 87 TIME 2315 GMT
 LAT 00 29.3N LONG 109 59.7W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 120 T SPD 10 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 26.5 WET 23.8 DEPTH 3780 M

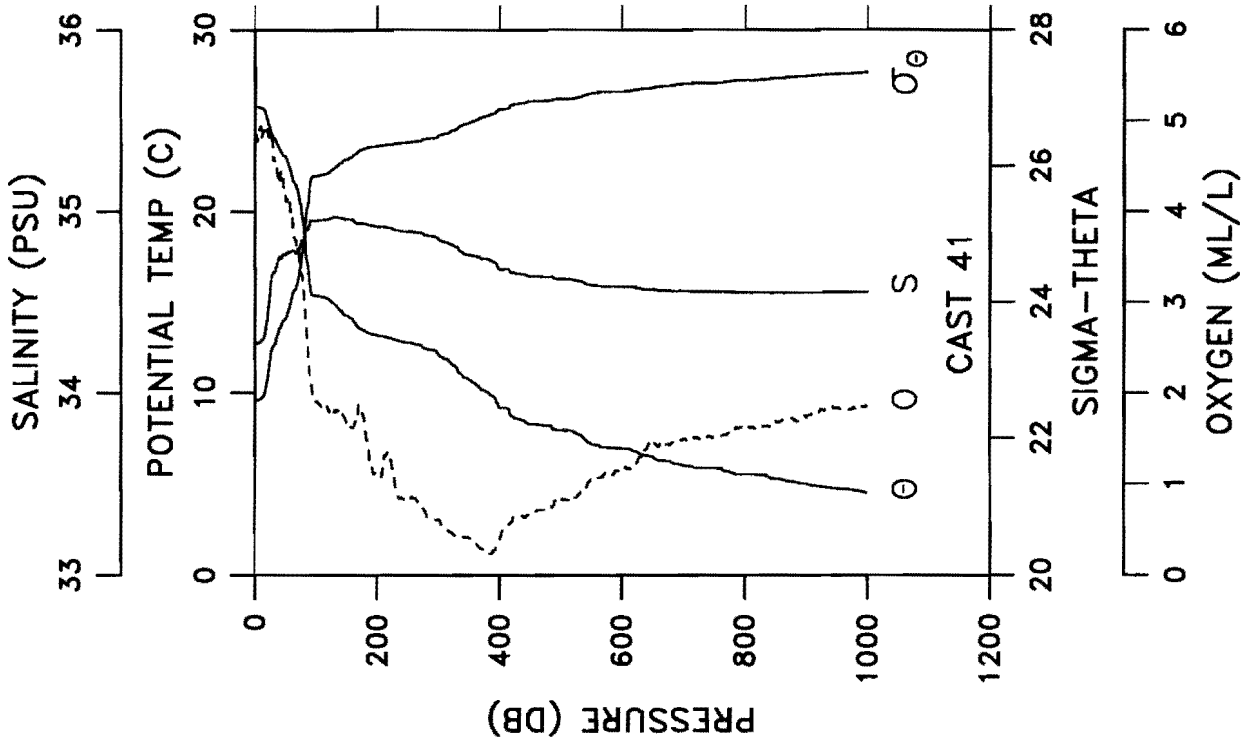


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.631 | 34.668 | 4.79 | 23.204 | 0.000 |
| 10 | 24.468 | 34.672 | 4.76 | 23.256 | 0.047 |
| 20 | 24.178 | 34.674 | 4.78 | 23.344 | 0.092 |
| 30 | 23.539 | 34.718 | 4.57 | 23.565 | 0.137 |
| 40 | 22.787 | 34.754 | 4.17 | 23.810 | 0.179 |
| 50 | 21.366 | 34.791 | 3.76 | 24.236 | 0.218 |
| 60 | 20.043 | 34.795 | 3.20 | 24.595 | 0.253 |
| 70 | 17.079 | 34.851 | 2.29 | 25.382 | 0.283 |
| 80 | 16.529 | 34.863 | 2.08 | 25.521 | 0.308 |
| 90 | 15.593 | 34.895 | 1.94 | 25.760 | 0.332 |
| 100 | 15.529 | 34.898 | 1.93 | 25.777 | 0.355 |
| 110 | 15.324 | 34.904 | 1.97 | 25.827 | 0.377 |
| 120 | 15.044 | 34.926 | 2.00 | 25.906 | 0.399 |
| 130 | 14.411 | 34.924 | 1.95 | 26.042 | 0.419 |
| 140 | 13.950 | 34.931 | 1.80 | 26.145 | 0.438 |
| 150 | 13.486 | 34.920 | 1.65 | 26.233 | 0.457 |
| 160 | 13.444 | 34.919 | 1.72 | 26.241 | 0.475 |
| 170 | 13.189 | 34.923 | 1.73 | 26.296 | 0.493 |
| 180 | 13.128 | 34.920 | 1.58 | 26.306 | 0.511 |
| 190 | 13.074 | 34.919 | 1.66 | 26.315 | 0.528 |
| 200 | 12.942 | 34.908 | 1.56 | 26.334 | 0.546 |
| 250 | 12.662 | 34.888 | 1.21 | 26.374 | 0.632 |
| 300 | 11.447 | 34.803 | 0.53 | 26.541 | 0.715 |
| 350 | 10.001 | 34.736 | 0.22 | 26.746 | 0.788 |
| 400 | 8.947 | 34.674 | 0.54 | 26.872 | 0.853 |
| 450 | 8.326 | 34.643 | 0.72 | 26.945 | 0.914 |
| 500 | 7.641 | 34.612 | 0.90 | 27.023 | 0.972 |
| 550 | 7.354 | 34.600 | 0.98 | 27.054 | 1.027 |
| 600 | 6.952 | 34.585 | 1.15 | 27.099 | 1.080 |
| 650 | 6.249 | 34.563 | 1.36 | 27.175 | 1.132 |
| 700 | 6.114 | 34.561 | 1.45 | 27.191 | 1.180 |
| 750 | 5.780 | 34.557 | 1.51 | 27.231 | 1.228 |
| 800 | 5.388 | 34.552 | 1.64 | 27.275 | 1.274 |
| 900 | 5.011 | 34.552 | 1.72 | 27.319 | 1.361 |
| 1000 | 4.614 | 34.557 | 1.79 | 27.368 | 1.445 |
| 1009 | 4.554 | 34.556 | 1.80 | 27.374 | 1.452 |

CAST EP2-87-OC -041 DATE 29 OCT 87 TIME 0259 GMT
LAT 01 00.8N LONG 109 57.2W

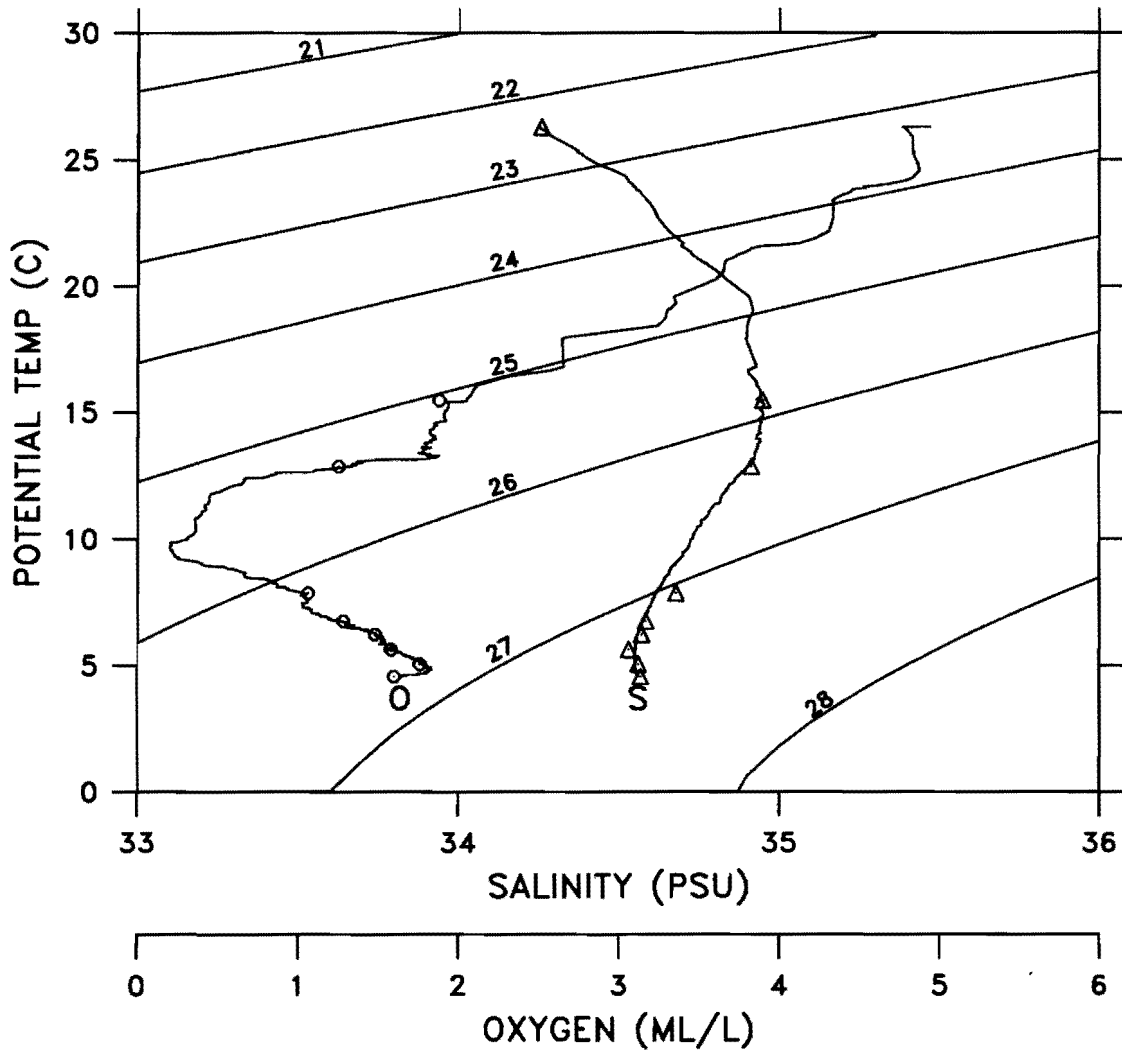


CAST EP2-87-OC -041 DATE 29 OCT 87 TIME 0259 GMT
 LAT 01 00.8N LONG 109 57.2W WEATHER 1 SEA STATE 3
 BAROMETER 16 WIND DIR 120 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 24.0 WET 23.0 DEPTH 3773 M

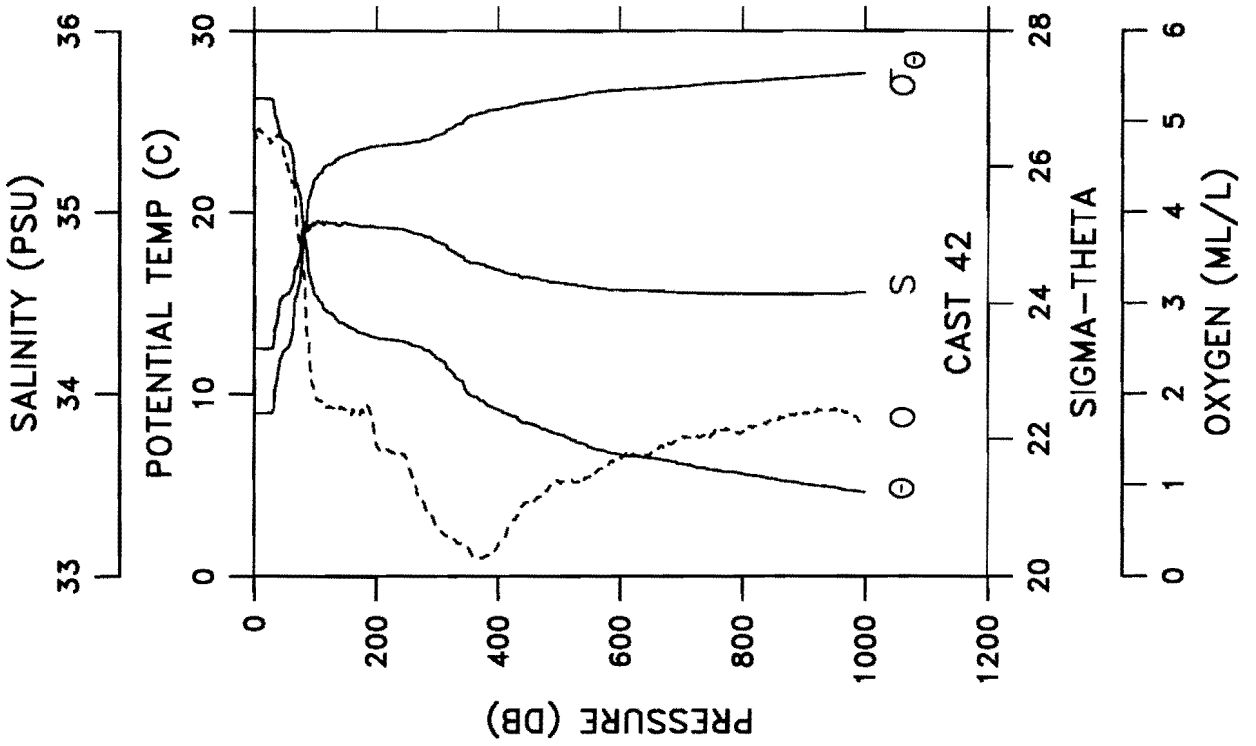


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.757 | 34.277 | 4.84 | 22.565 | 0.000 |
| 10 | 25.714 | 34.287 | 4.94 | 22.586 | 0.053 |
| 20 | 25.102 | 34.403 | 4.92 | 22.861 | 0.104 |
| 30 | 24.093 | 34.661 | 4.56 | 23.359 | 0.152 |
| 40 | 23.452 | 34.749 | 4.32 | 23.614 | 0.196 |
| 50 | 22.975 | 34.758 | 4.12 | 23.759 | 0.238 |
| 60 | 21.933 | 34.780 | 3.99 | 24.071 | 0.278 |
| 70 | 21.094 | 34.796 | 3.56 | 24.314 | 0.316 |
| 80 | 19.125 | 34.845 | 3.06 | 24.872 | 0.350 |
| 90 | 15.905 | 34.944 | 2.18 | 25.727 | 0.376 |
| 100 | 15.356 | 34.950 | 1.90 | 25.856 | 0.398 |
| 110 | 15.285 | 34.953 | 1.84 | 25.874 | 0.420 |
| 120 | 15.183 | 34.958 | 1.79 | 25.900 | 0.441 |
| 130 | 14.878 | 34.971 | 1.78 | 25.977 | 0.462 |
| 140 | 14.553 | 34.966 | 1.76 | 26.043 | 0.482 |
| 150 | 14.270 | 34.958 | 1.66 | 26.098 | 0.502 |
| 160 | 14.064 | 34.955 | 1.62 | 26.139 | 0.521 |
| 170 | 13.608 | 34.932 | 1.86 | 26.217 | 0.540 |
| 180 | 13.430 | 34.932 | 1.63 | 26.254 | 0.558 |
| 190 | 13.269 | 34.923 | 1.20 | 26.280 | 0.576 |
| 200 | 13.185 | 34.917 | 1.07 | 26.292 | 0.594 |
| 250 | 12.803 | 34.889 | 0.84 | 26.347 | 0.682 |
| 300 | 12.138 | 34.847 | 0.61 | 26.445 | 0.767 |
| 350 | 10.755 | 34.759 | 0.41 | 26.633 | 0.846 |
| 400 | 9.189 | 34.679 | 0.39 | 26.837 | 0.916 |
| 450 | 8.272 | 34.641 | 0.67 | 26.951 | 0.977 |
| 500 | 7.954 | 34.628 | 0.84 | 26.989 | 1.036 |
| 550 | 7.197 | 34.594 | 1.06 | 27.071 | 1.092 |
| 600 | 6.963 | 34.585 | 1.17 | 27.098 | 1.145 |
| 650 | 6.505 | 34.570 | 1.46 | 27.147 | 1.197 |
| 700 | 6.008 | 34.559 | 1.49 | 27.203 | 1.246 |
| 750 | 5.859 | 34.558 | 1.53 | 27.221 | 1.293 |
| 800 | 5.528 | 34.553 | 1.61 | 27.259 | 1.340 |
| 900 | 4.995 | 34.552 | 1.73 | 27.321 | 1.428 |
| 1000 | 4.514 | 34.556 | 1.85 | 27.379 | 1.511 |
| 1007 | 4.495 | 34.558 | 1.87 | 27.382 | 1.516 |

CAST EP2-87-OC -042 DATE 29 OCT 87 TIME 0640 GMT
LAT 01 31.3N LONG 110 01.1W

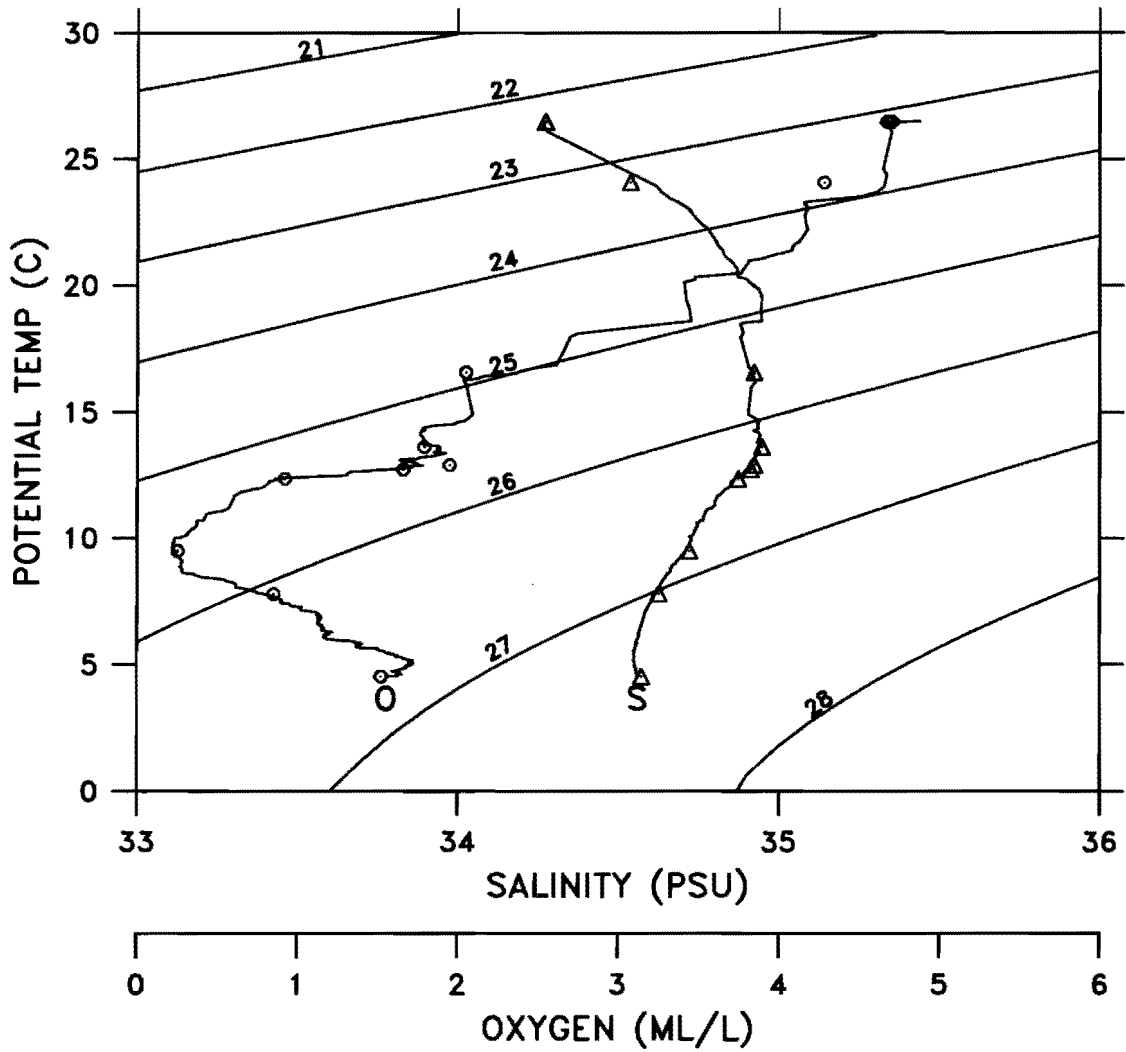


CAST EP2-87-OC -042 DATE 29 OCT 87 TIME 0640 GMT
 LAT 01 31.3N LONG 110 01.1W WEATHER 1 SEA STATE 2
 BAROMETER 16 WIND DIR 120 T SPD 12 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 24.7 WET 22.5 DEPTH 3797 M

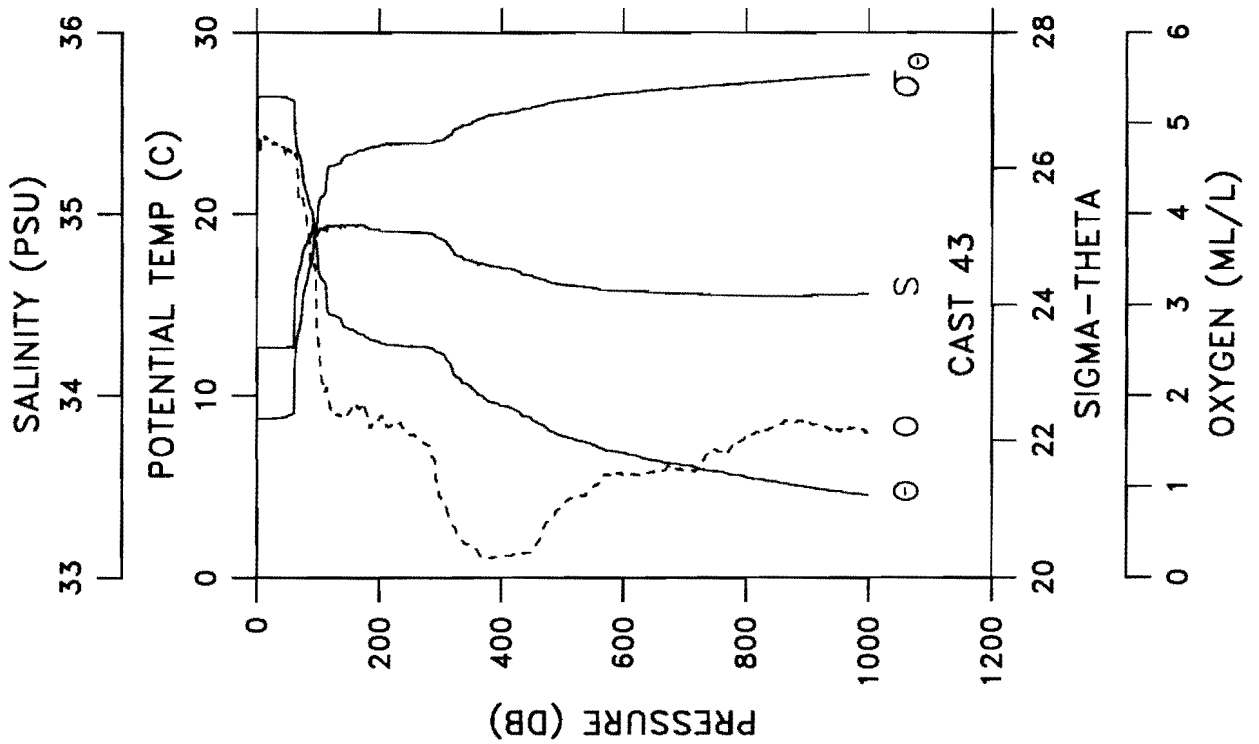


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 26.280 | 34.253 | 4.89 | 22.384 | 0.000 |
| 10 | 26.281 | 34.252 | 4.91 | 22.383 | 0.054 |
| 20 | 26.268 | 34.252 | 4.83 | 22.387 | 0.109 |
| 30 | 26.234 | 34.253 | 4.78 | 22.399 | 0.163 |
| 40 | 24.623 | 34.472 | 4.87 | 23.058 | 0.215 |
| 50 | 23.978 | 34.542 | 4.62 | 23.303 | 0.261 |
| 60 | 23.486 | 34.582 | 4.35 | 23.477 | 0.307 |
| 70 | 21.506 | 34.705 | 3.83 | 24.132 | 0.347 |
| 80 | 19.329 | 34.912 | 3.35 | 24.870 | 0.383 |
| 90 | 16.535 | 34.903 | 2.43 | 25.551 | 0.410 |
| 100 | 15.418 | 34.935 | 2.01 | 25.830 | 0.433 |
| 110 | 15.045 | 34.943 | 1.91 | 25.919 | 0.455 |
| 120 | 14.537 | 34.942 | 1.85 | 26.029 | 0.475 |
| 130 | 14.350 | 34.939 | 1.84 | 26.066 | 0.495 |
| 140 | 13.939 | 34.926 | 1.84 | 26.144 | 0.514 |
| 150 | 13.809 | 34.940 | 1.82 | 26.181 | 0.533 |
| 160 | 13.619 | 34.931 | 1.77 | 26.214 | 0.552 |
| 170 | 13.411 | 34.924 | 1.77 | 26.251 | 0.570 |
| 180 | 13.315 | 34.924 | 1.80 | 26.271 | 0.588 |
| 190 | 13.180 | 34.923 | 1.79 | 26.298 | 0.606 |
| 200 | 13.105 | 34.917 | 1.44 | 26.308 | 0.624 |
| 250 | 12.833 | 34.899 | 1.29 | 26.349 | 0.711 |
| 300 | 11.960 | 34.837 | 0.54 | 26.470 | 0.796 |
| 350 | 10.061 | 34.731 | 0.31 | 26.732 | 0.872 |
| 400 | 9.138 | 34.682 | 0.33 | 26.847 | 0.938 |
| 450 | 8.383 | 34.642 | 0.80 | 26.935 | 1.000 |
| 500 | 7.769 | 34.613 | 1.04 | 27.005 | 1.059 |
| 550 | 7.069 | 34.585 | 1.08 | 27.083 | 1.114 |
| 600 | 6.667 | 34.572 | 1.31 | 27.127 | 1.166 |
| 650 | 6.475 | 34.567 | 1.34 | 27.149 | 1.216 |
| 700 | 6.145 | 34.558 | 1.50 | 27.185 | 1.266 |
| 750 | 5.833 | 34.553 | 1.56 | 27.220 | 1.314 |
| 800 | 5.601 | 34.551 | 1.58 | 27.248 | 1.361 |
| 900 | 5.039 | 34.550 | 1.79 | 27.314 | 1.450 |
| 1000 | 4.599 | 34.558 | 1.66 | 27.371 | 1.534 |
| 1009 | 4.560 | 34.560 | 1.64 | 27.376 | 1.541 |

CAST EP2-87-OC -043 DATE 29 OCT 87 TIME 1140 GMT
LAT 02 11.9N LONG 110 21.9W

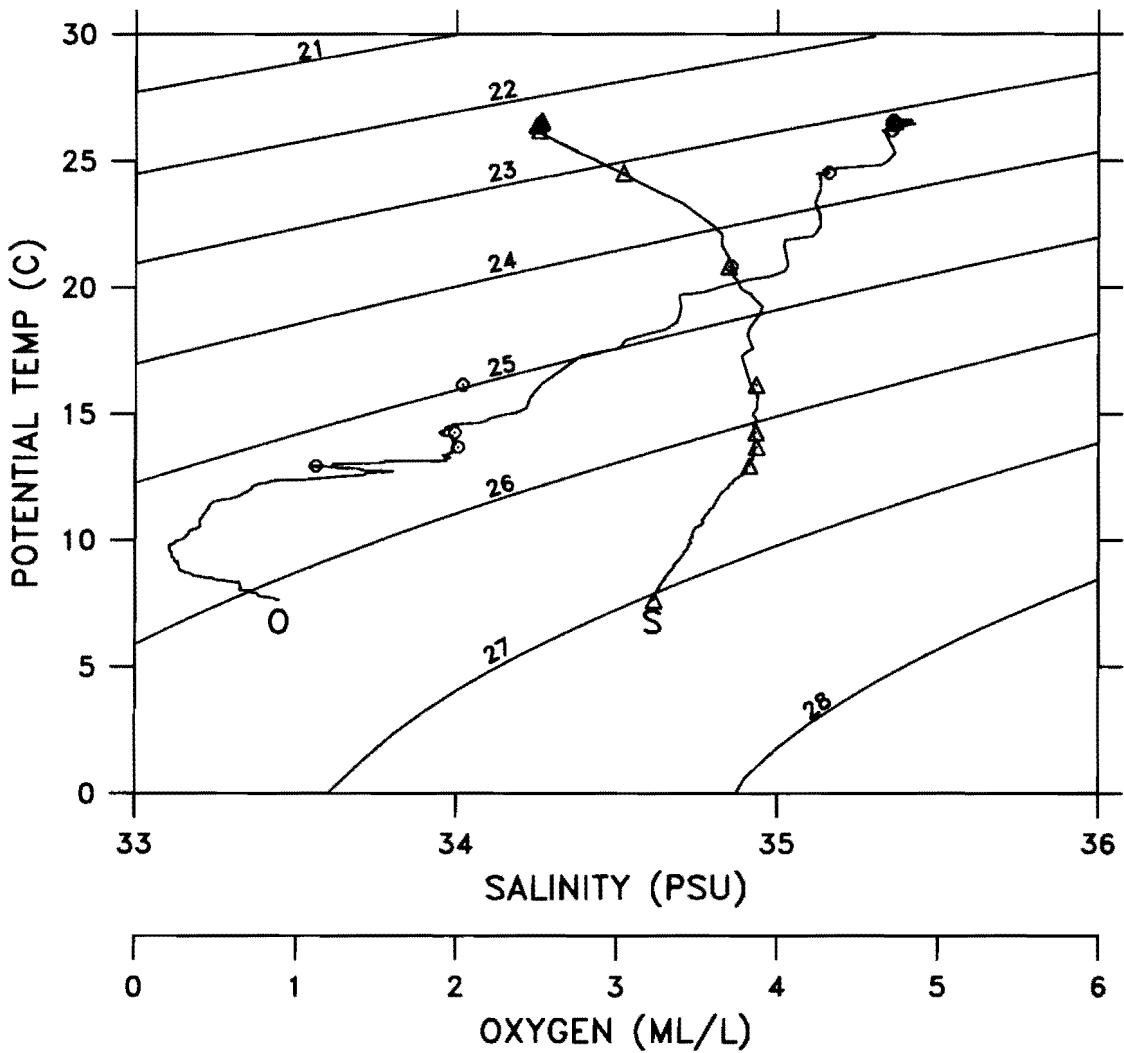


CAST EP2-87-OC -043 DATE 29 OCT 87 TIME 1140 GMT
 LAT 02 11.9N LONG 110 21.9W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 140 T SPD 12 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 24.8 WET 22.8 DEPTH 3985 M

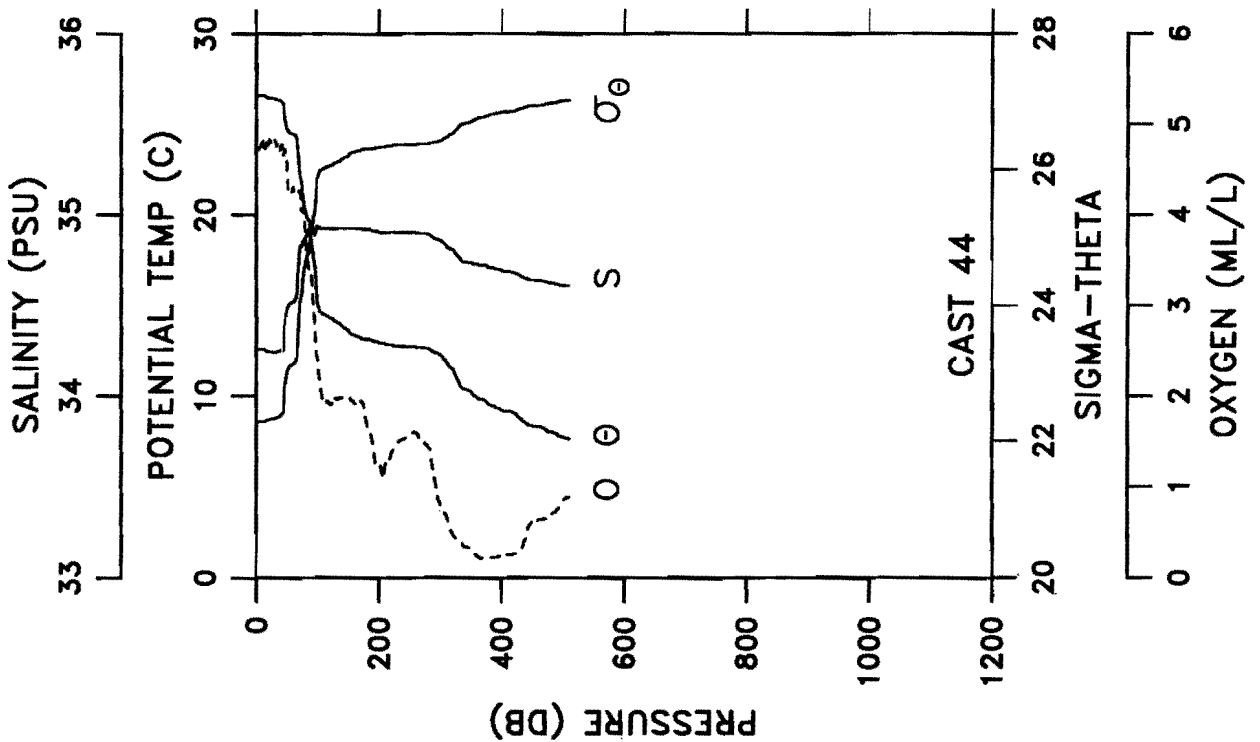


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.496 | 34.266 | 4.83 | 22.327 | 0.000 |
| 10 | 26.493 | 34.266 | 4.87 | 22.327 | 0.055 |
| 20 | 26.490 | 34.265 | 4.82 | 22.328 | 0.110 |
| 30 | 26.478 | 34.266 | 4.76 | 22.332 | 0.165 |
| 40 | 26.457 | 34.266 | 4.74 | 22.339 | 0.220 |
| 50 | 26.382 | 34.268 | 4.72 | 22.364 | 0.275 |
| 60 | 26.076 | 34.278 | 4.70 | 22.467 | 0.330 |
| 70 | 23.055 | 34.715 | 4.18 | 23.703 | 0.375 |
| 80 | 21.257 | 34.827 | 3.99 | 24.293 | 0.414 |
| 90 | 20.121 | 34.906 | 3.41 | 24.660 | 0.448 |
| 100 | 16.854 | 34.904 | 2.61 | 25.476 | 0.477 |
| 110 | 16.259 | 34.926 | 2.03 | 25.632 | 0.502 |
| 120 | 14.465 | 34.933 | 1.86 | 26.038 | 0.523 |
| 130 | 14.347 | 34.935 | 1.78 | 26.064 | 0.543 |
| 140 | 13.906 | 34.936 | 1.79 | 26.158 | 0.563 |
| 150 | 13.690 | 34.940 | 1.81 | 26.206 | 0.581 |
| 160 | 13.583 | 34.937 | 1.88 | 26.226 | 0.600 |
| 170 | 13.387 | 34.940 | 1.88 | 26.269 | 0.618 |
| 180 | 13.216 | 34.926 | 1.79 | 26.293 | 0.635 |
| 190 | 13.041 | 34.913 | 1.73 | 26.318 | 0.653 |
| 200 | 12.962 | 34.912 | 1.74 | 26.333 | 0.670 |
| 250 | 12.723 | 34.901 | 1.56 | 26.372 | 0.756 |
| 300 | 12.356 | 34.865 | 0.89 | 26.416 | 0.842 |
| 350 | 10.532 | 34.744 | 0.37 | 26.660 | 0.919 |
| 400 | 9.432 | 34.704 | 0.23 | 26.817 | 0.988 |
| 450 | 8.686 | 34.664 | 0.28 | 26.905 | 1.052 |
| 500 | 7.777 | 34.612 | 0.80 | 27.003 | 1.111 |
| 550 | 7.288 | 34.593 | 0.99 | 27.058 | 1.166 |
| 600 | 6.836 | 34.579 | 1.12 | 27.110 | 1.219 |
| 650 | 6.424 | 34.568 | 1.17 | 27.157 | 1.270 |
| 700 | 6.157 | 34.564 | 1.18 | 27.188 | 1.320 |
| 750 | 5.822 | 34.556 | 1.40 | 27.225 | 1.367 |
| 800 | 5.507 | 34.550 | 1.54 | 27.258 | 1.414 |
| 900 | 4.964 | 34.551 | 1.68 | 27.324 | 1.502 |
| 1000 | 4.529 | 34.562 | 1.57 | 27.381 | 1.584 |
| 1009 | 4.518 | 34.563 | 1.55 | 27.383 | 1.591 |

CAST EP2-87-OC -044 DATE 30 OCT 87 TIME 0201 GMT
LAT 02 03.6N LONG 110 10.7W

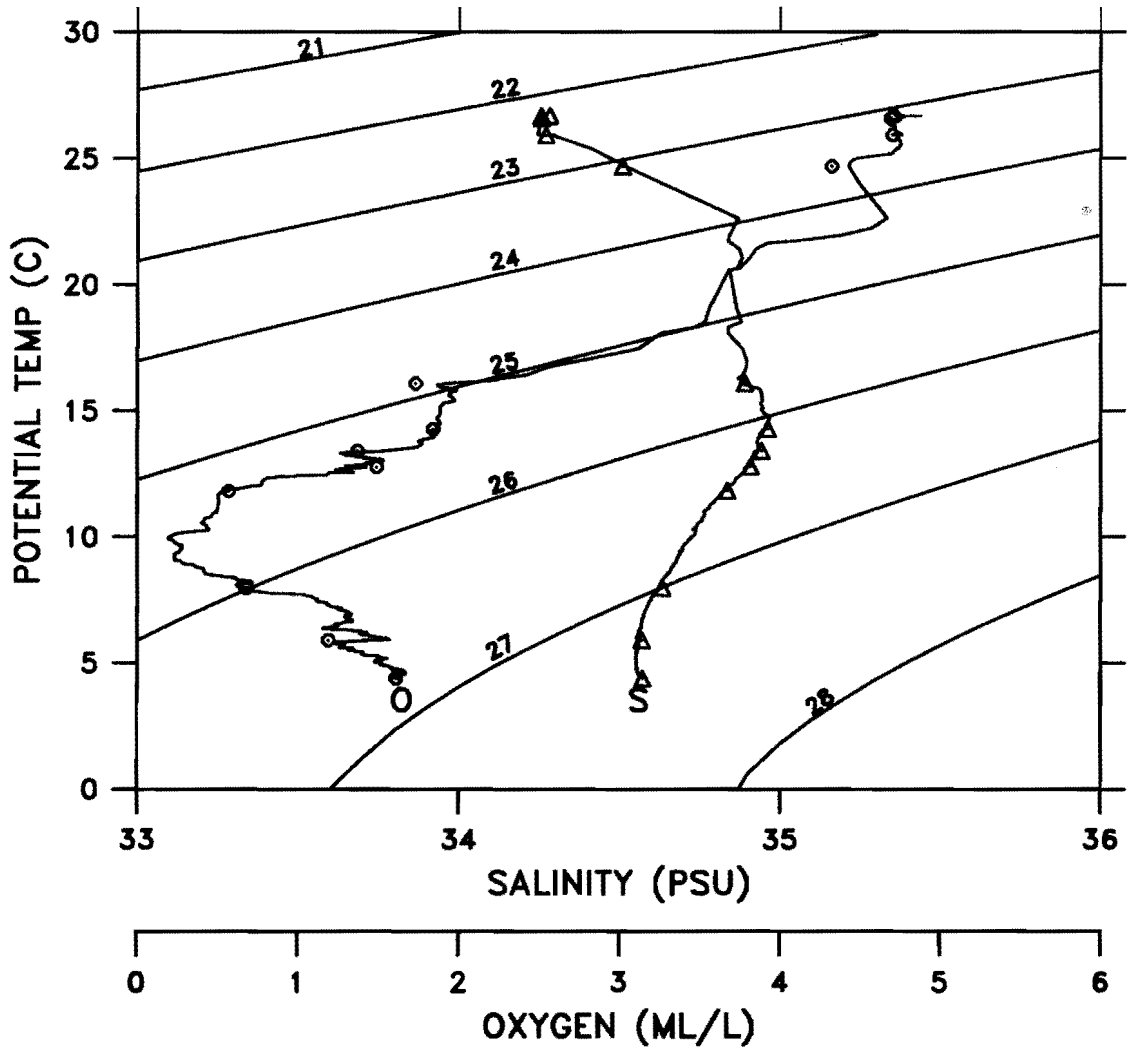


CAST EP2-87-OC -044 DATE 30 OCT 87 TIME 0201 GMT
 LAT 02 03.6N LONG 110 10.7W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 120 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 25.0 WET 23.0 DEPTH 3793 M

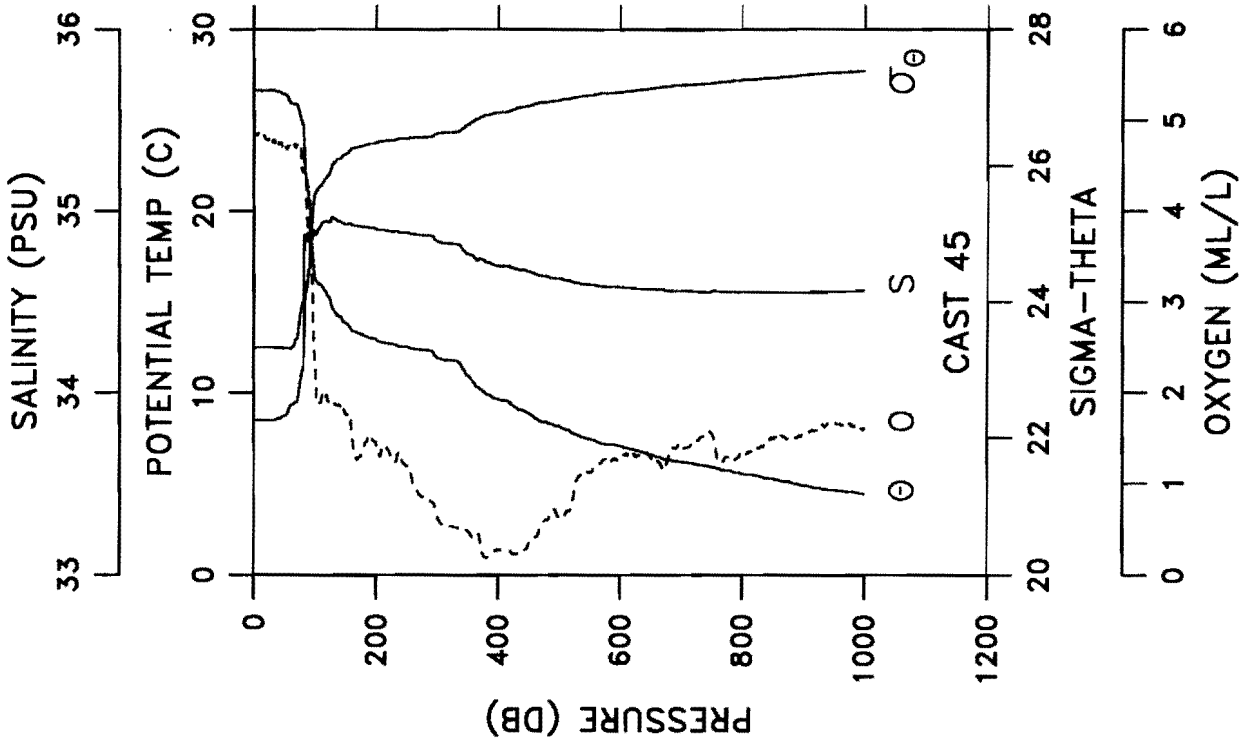


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.589 | 34.258 | 4.80 | 22.291 | 0.000 |
| 10 | 26.599 | 34.259 | 4.80 | 22.289 | 0.055 |
| 20 | 26.475 | 34.247 | 4.82 | 22.319 | 0.111 |
| 30 | 26.416 | 34.243 | 4.82 | 22.334 | 0.166 |
| 40 | 26.295 | 34.251 | 4.76 | 22.378 | 0.221 |
| 50 | 24.749 | 34.477 | 4.47 | 23.024 | 0.273 |
| 60 | 24.472 | 34.519 | 4.31 | 23.139 | 0.321 |
| 70 | 22.433 | 34.797 | 4.27 | 23.943 | 0.366 |
| 80 | 20.161 | 34.878 | 3.73 | 24.628 | 0.402 |
| 90 | 18.344 | 34.911 | 3.30 | 25.120 | 0.434 |
| 100 | 15.045 | 34.925 | 2.37 | 25.905 | 0.459 |
| 110 | 14.525 | 34.926 | 1.98 | 26.019 | 0.480 |
| 120 | 14.326 | 34.924 | 1.91 | 26.060 | 0.500 |
| 130 | 14.117 | 34.924 | 1.97 | 26.105 | 0.519 |
| 140 | 13.882 | 34.929 | 1.98 | 26.158 | 0.538 |
| 150 | 13.661 | 34.926 | 1.97 | 26.201 | 0.557 |
| 160 | 13.366 | 34.926 | 1.92 | 26.262 | 0.575 |
| 170 | 13.231 | 34.923 | 1.93 | 26.287 | 0.593 |
| 180 | 13.138 | 34.918 | 1.70 | 26.302 | 0.611 |
| 190 | 13.062 | 34.912 | 1.50 | 26.313 | 0.628 |
| 200 | 12.960 | 34.905 | 1.24 | 26.328 | 0.646 |
| 250 | 12.741 | 34.903 | 1.57 | 26.370 | 0.732 |
| 300 | 12.272 | 34.859 | 0.81 | 26.427 | 0.817 |
| 350 | 10.232 | 34.734 | 0.32 | 26.705 | 0.894 |
| 400 | 9.211 | 34.693 | 0.24 | 26.844 | 0.960 |
| 450 | 8.329 | 34.639 | 0.61 | 26.941 | 1.022 |
| 500 | 7.711 | 34.610 | 0.85 | 27.011 | 1.081 |
| 510 | 7.630 | 34.607 | 0.89 | 27.020 | 1.092 |

CAST EP2-87-OC -045 DATE 30 OCT 87 TIME 0826 GMT
LAT 02 59.8N LONG 109 59.5W

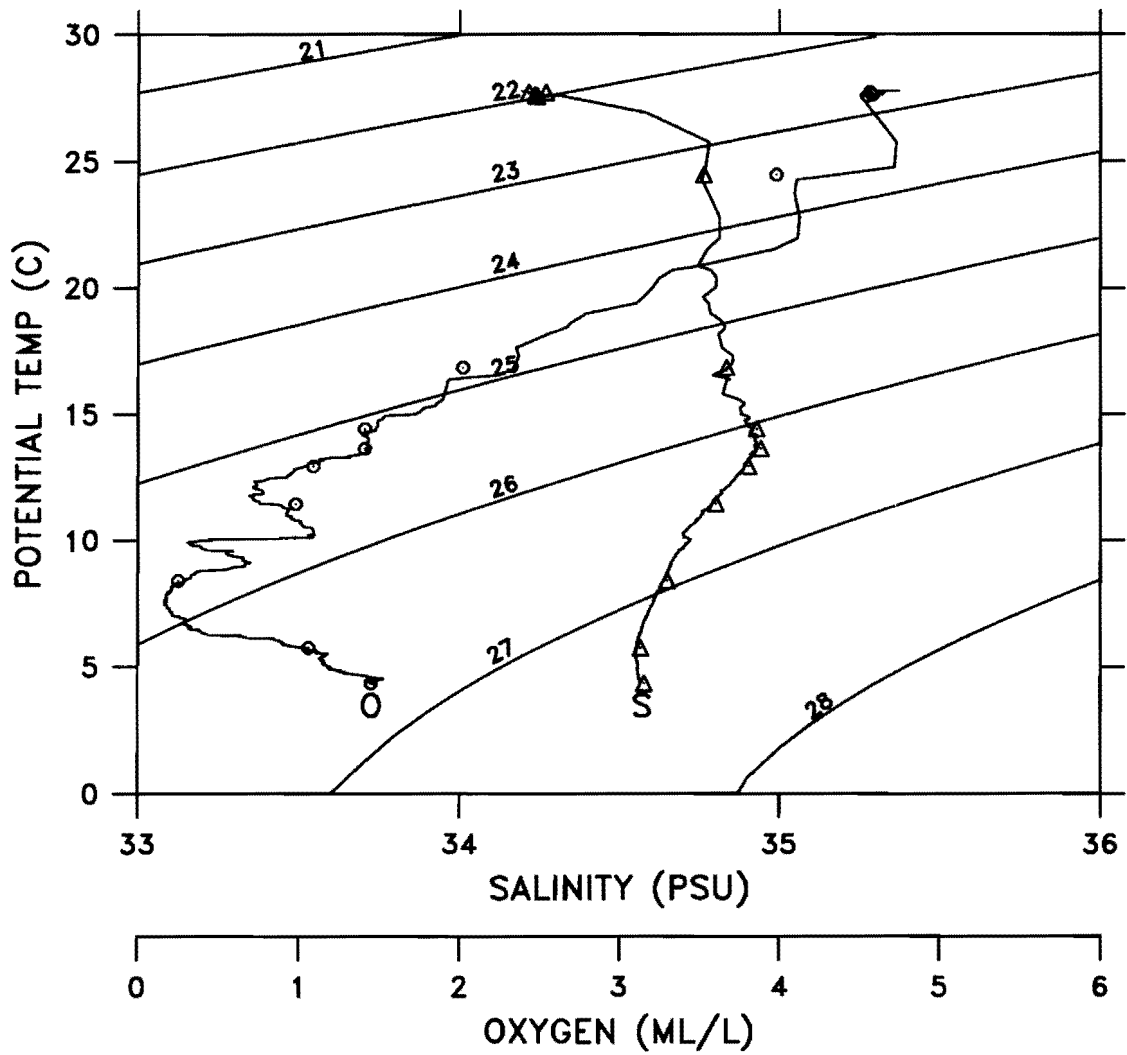


CAST EP2-87-OC -045 DATE 30 OCT 87 TIME 0826 GMT
 LAT 02 59.8N LONG 109 59.5W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 160 T SPD 10 KT VISIBILITY 8
 CLOUD 3 AMOUNT 2 DRY 25.5 WET 23.0 DEPTH 3895 M

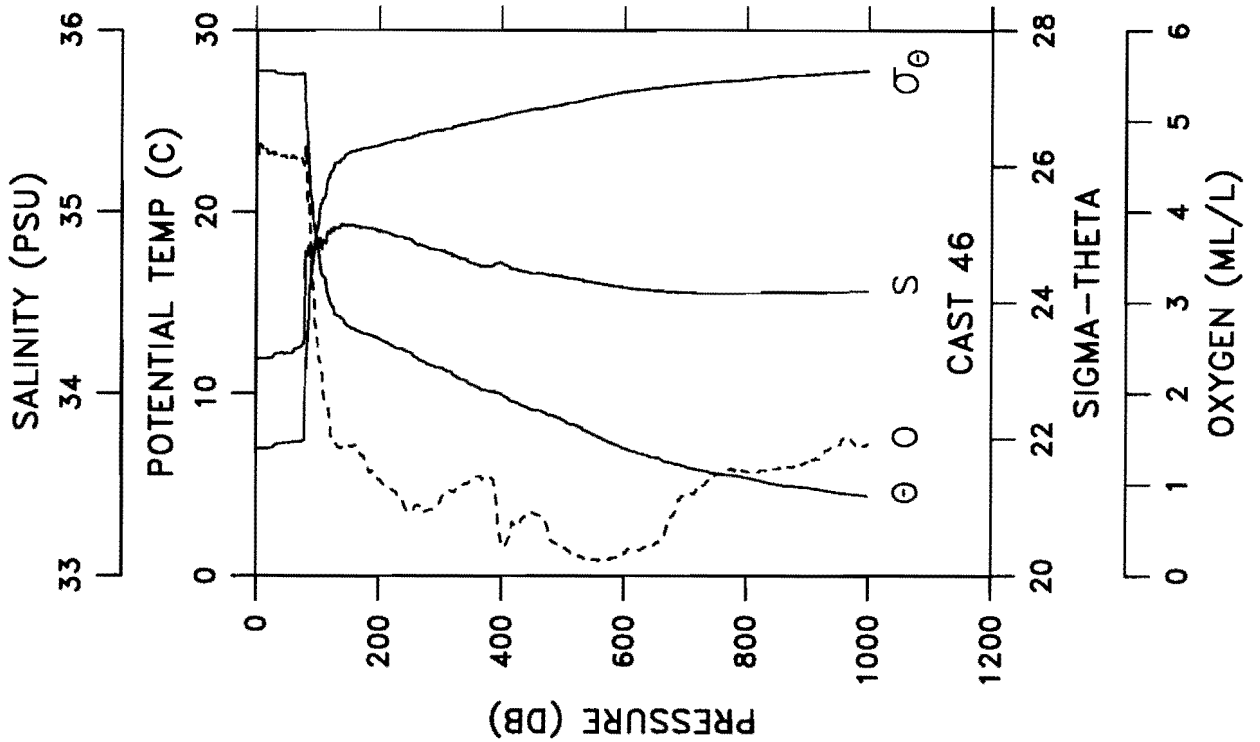


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.654 | 34.249 | 4.88 | 22.264 | 0.000 |
| 10 | 26.657 | 34.248 | 4.83 | 22.262 | 0.056 |
| 20 | 26.653 | 34.248 | 4.79 | 22.264 | 0.111 |
| 30 | 26.651 | 34.248 | 4.76 | 22.264 | 0.167 |
| 40 | 26.585 | 34.247 | 4.76 | 22.284 | 0.223 |
| 50 | 26.452 | 34.244 | 4.74 | 22.323 | 0.278 |
| 60 | 25.952 | 34.242 | 4.76 | 22.478 | 0.333 |
| 70 | 25.907 | 34.294 | 4.72 | 22.532 | 0.386 |
| 80 | 24.815 | 34.500 | 4.43 | 23.021 | 0.438 |
| 90 | 20.643 | 34.865 | 3.75 | 24.489 | 0.478 |
| 100 | 16.279 | 34.868 | 2.26 | 25.583 | 0.506 |
| 110 | 15.916 | 34.924 | 1.90 | 25.709 | 0.530 |
| 120 | 15.346 | 34.942 | 1.95 | 25.851 | 0.552 |
| 130 | 14.557 | 34.961 | 1.88 | 26.039 | 0.573 |
| 140 | 14.210 | 34.944 | 1.86 | 26.100 | 0.593 |
| 150 | 13.831 | 34.929 | 1.77 | 26.169 | 0.612 |
| 160 | 13.398 | 34.925 | 1.52 | 26.255 | 0.630 |
| 170 | 13.280 | 34.919 | 1.28 | 26.274 | 0.648 |
| 180 | 13.143 | 34.913 | 1.38 | 26.297 | 0.666 |
| 190 | 13.004 | 34.907 | 1.53 | 26.320 | 0.684 |
| 200 | 12.907 | 34.902 | 1.42 | 26.336 | 0.701 |
| 250 | 12.528 | 34.883 | 1.19 | 26.397 | 0.786 |
| 300 | 11.928 | 34.835 | 0.64 | 26.475 | 0.870 |
| 350 | 10.958 | 34.764 | 0.49 | 26.600 | 0.950 |
| 400 | 9.635 | 34.701 | 0.28 | 26.780 | 1.020 |
| 450 | 8.869 | 34.668 | 0.35 | 26.879 | 1.085 |
| 500 | 8.142 | 34.630 | 0.64 | 26.962 | 1.146 |
| 550 | 7.448 | 34.596 | 1.13 | 27.037 | 1.203 |
| 600 | 7.067 | 34.581 | 1.28 | 27.080 | 1.257 |
| 650 | 6.597 | 34.570 | 1.30 | 27.135 | 1.310 |
| 700 | 6.179 | 34.559 | 1.41 | 27.182 | 1.359 |
| 750 | 5.919 | 34.557 | 1.55 | 27.213 | 1.408 |
| 800 | 5.542 | 34.556 | 1.34 | 27.259 | 1.454 |
| 900 | 4.887 | 34.553 | 1.55 | 27.334 | 1.542 |
| 1000 | 4.420 | 34.561 | 1.63 | 27.393 | 1.623 |
| 1008 | 4.386 | 34.562 | 1.65 | 27.397 | 1.630 |

CAST EP2-87-OC -046 DATE 30 OCT 87 TIME 1417 GMT
LAT 03 59.4N LONG 109 59.2W

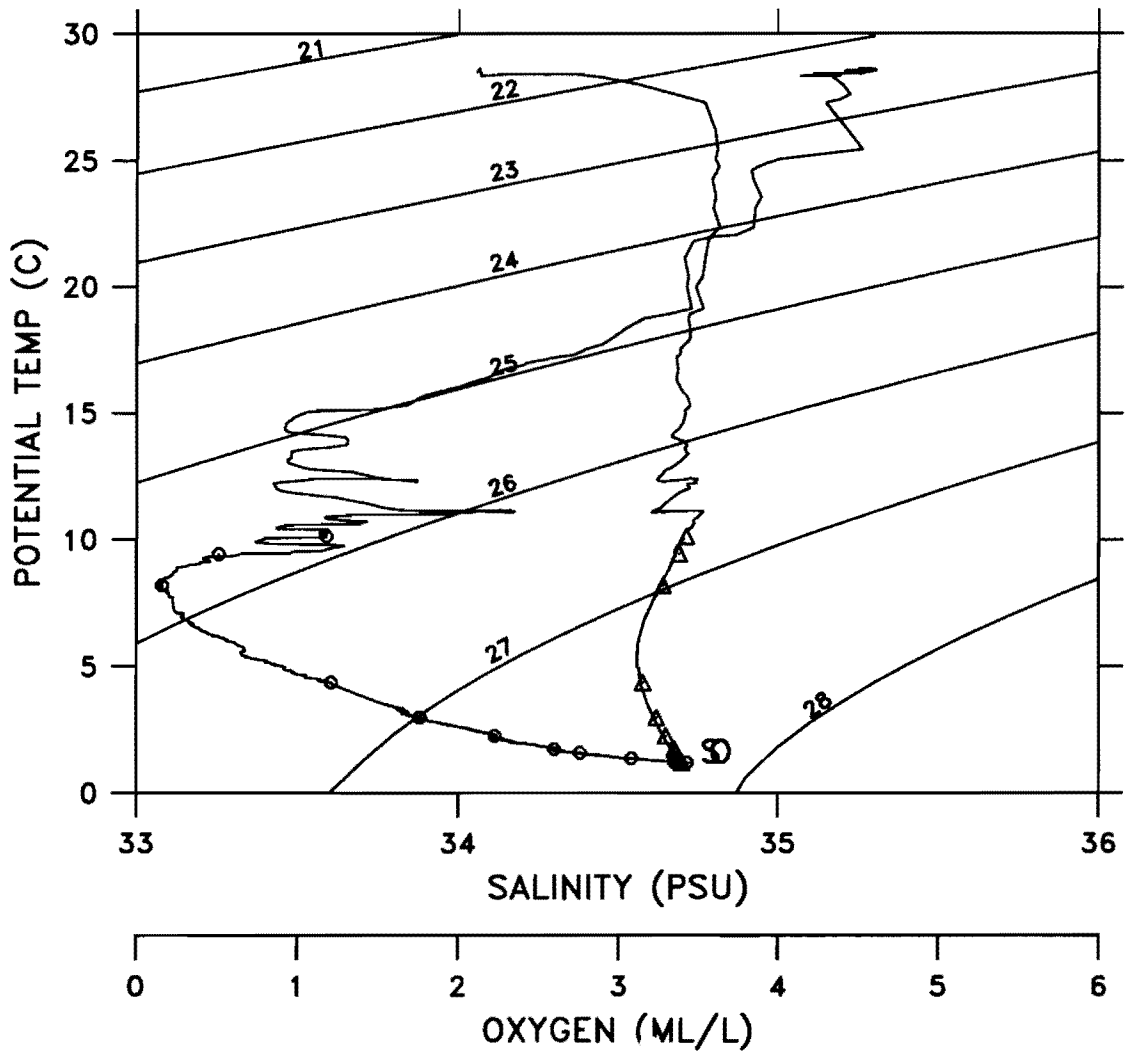


CAST EP2-87-OC -046 DATE 30 OCT 87 TIME 1417 GMT
 LAT 03 59.4N LONG 109 59.2W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 145 T SPD 13 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 26.2 WET 23.5 DEPTH 3895 M

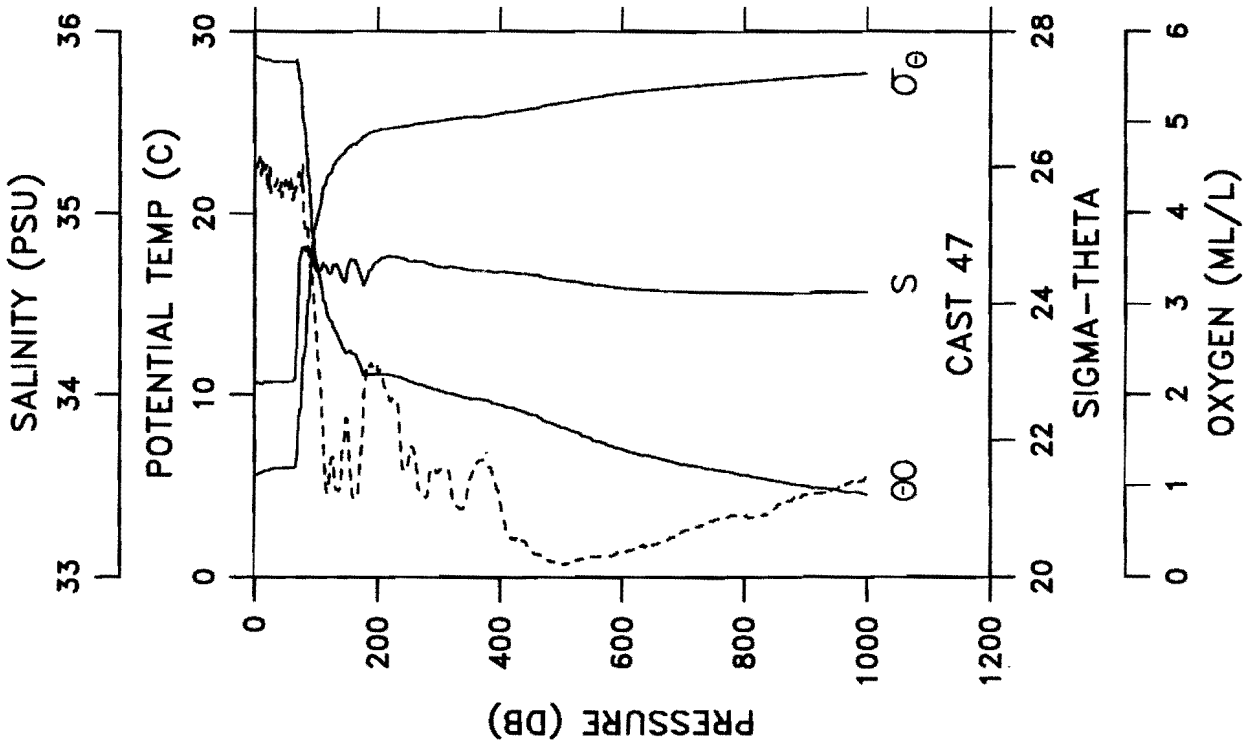


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.764 | 34.193 | 4.72 | 21.867 | 0.000 |
| 10 | 27.762 | 34.193 | 4.70 | 21.867 | 0.059 |
| 20 | 27.762 | 34.194 | 4.65 | 21.868 | 0.119 |
| 30 | 27.697 | 34.217 | 4.66 | 21.906 | 0.178 |
| 40 | 27.616 | 34.224 | 4.61 | 21.938 | 0.237 |
| 50 | 27.587 | 34.223 | 4.59 | 21.946 | 0.296 |
| 60 | 27.565 | 34.230 | 4.62 | 21.959 | 0.355 |
| 70 | 27.591 | 34.253 | 4.60 | 21.968 | 0.414 |
| 80 | 25.734 | 34.779 | 4.73 | 22.951 | 0.471 |
| 90 | 20.693 | 34.786 | 3.33 | 24.415 | 0.513 |
| 100 | 18.177 | 34.808 | 2.55 | 25.083 | 0.544 |
| 110 | 16.388 | 34.842 | 1.95 | 25.538 | 0.571 |
| 120 | 14.988 | 34.878 | 1.71 | 25.882 | 0.594 |
| 130 | 14.317 | 34.910 | 1.44 | 26.051 | 0.614 |
| 140 | 14.125 | 34.932 | 1.42 | 26.109 | 0.634 |
| 150 | 13.701 | 34.927 | 1.43 | 26.222 | 0.671 |
| 160 | 13.557 | 34.925 | 1.43 | 26.222 | 0.671 |
| 170 | 13.361 | 34.914 | 1.34 | 26.254 | 0.690 |
| 180 | 13.287 | 34.910 | 1.21 | 26.266 | 0.707 |
| 190 | 13.176 | 34.906 | 1.15 | 26.285 | 0.725 |
| 200 | 13.017 | 34.889 | 1.06 | 26.304 | 0.743 |
| 250 | 12.287 | 34.849 | 0.73 | 26.417 | 0.828 |
| 300 | 11.437 | 34.789 | 0.81 | 26.531 | 0.909 |
| 350 | 10.512 | 34.718 | 1.07 | 26.644 | 0.985 |
| 400 | 9.953 | 34.718 | 0.36 | 26.740 | 1.056 |
| 450 | 9.111 | 34.661 | 0.70 | 26.835 | 1.123 |
| 500 | 8.535 | 34.643 | 0.33 | 26.912 | 1.187 |
| 550 | 7.749 | 34.611 | 0.18 | 27.006 | 1.247 |
| 600 | 7.012 | 34.582 | 0.24 | 27.088 | 1.302 |
| 650 | 6.490 | 34.568 | 0.35 | 27.148 | 1.353 |
| 700 | 6.016 | 34.557 | 0.87 | 27.201 | 1.403 |
| 750 | 5.637 | 34.551 | 1.11 | 27.244 | 1.449 |
| 800 | 5.377 | 34.551 | 1.15 | 27.275 | 1.495 |
| 900 | 4.864 | 34.556 | 1.25 | 27.339 | 1.580 |
| 1000 | 4.374 | 34.565 | 1.45 | 27.401 | 1.660 |
| 1008 | 4.333 | 34.565 | 1.45 | 27.405 | 1.667 |

CAST EP2-87-OC -047 DATE 31 OCT 87 TIME 0012 GMT
LAT 05 02.3N LONG 110 01.0W

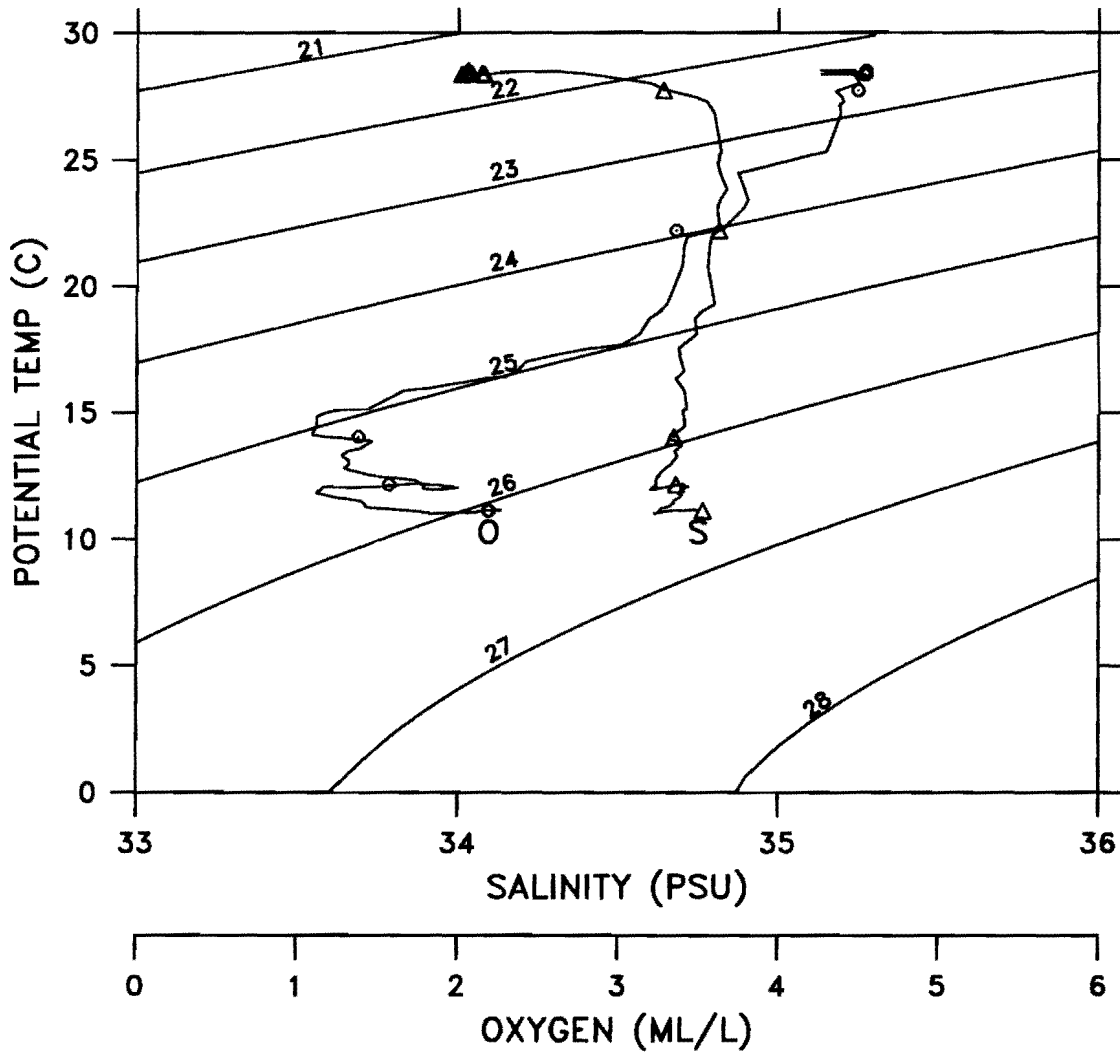


CAST EP2-87-OC -047 DATE 31 OCT 87 TIME 0012 GMT
 LAT 05 02.3N LONG 110 01.0W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 150 T SPD 08 KT VISIBILITY 9
 CLOUD 8 AMOUNT 5 DRY 27.2 WET 26.0 DEPTH 3886 M

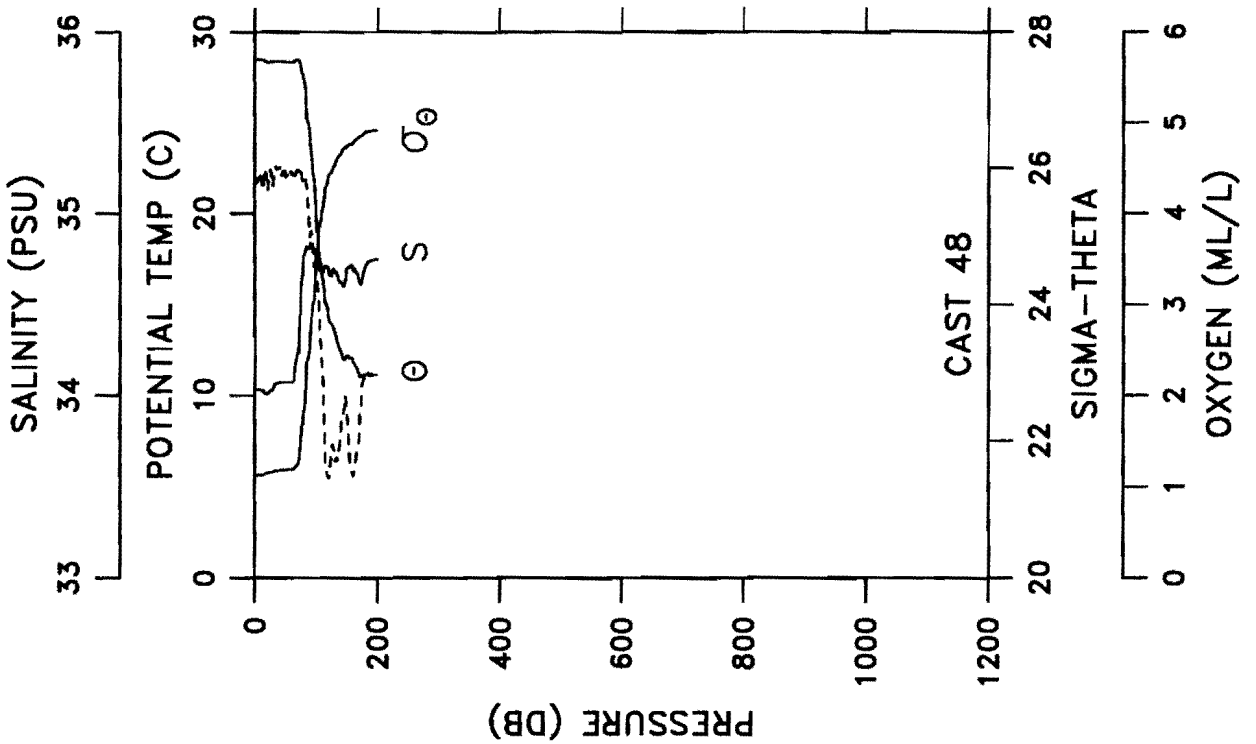


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.610 | 34.063 | 4.52 | 21.493 | 0.000 |
| 10 | 28.527 | 34.060 | 4.42 | 21.518 | 0.063 |
| 20 | 28.428 | 34.068 | 4.52 | 21.556 | 0.126 |
| 30 | 28.363 | 34.070 | 4.31 | 21.579 | 0.188 |
| 40 | 28.347 | 34.070 | 4.24 | 21.585 | 0.250 |
| 50 | 28.334 | 34.071 | 4.34 | 21.589 | 0.312 |
| 60 | 28.328 | 34.072 | 4.27 | 21.592 | 0.375 |
| 70 | 28.267 | 34.446 | 4.34 | 21.893 | 0.437 |
| 80 | 24.925 | 34.810 | 3.94 | 23.222 | 0.490 |
| 90 | 21.138 | 34.772 | 3.41 | 24.284 | 0.531 |
| 100 | 17.310 | 34.693 | 2.72 | 25.206 | 0.563 |
| 110 | 15.655 | 34.715 | 1.77 | 25.608 | 0.589 |
| 120 | 14.232 | 34.673 | 0.97 | 25.866 | 0.611 |
| 130 | 13.598 | 34.707 | 1.08 | 26.045 | 0.632 |
| 140 | 12.841 | 34.663 | 1.04 | 26.164 | 0.652 |
| 150 | 12.334 | 34.673 | 1.74 | 26.271 | 0.670 |
| 160 | 12.252 | 34.741 | 0.87 | 26.340 | 0.687 |
| 170 | 11.759 | 34.679 | 1.11 | 26.386 | 0.704 |
| 180 | 11.112 | 34.629 | 2.12 | 26.467 | 0.721 |
| 190 | 11.109 | 34.692 | 2.33 | 26.517 | 0.736 |
| 200 | 11.143 | 34.731 | 2.27 | 26.541 | 0.752 |
| 250 | 10.776 | 34.736 | 1.26 | 26.611 | 0.827 |
| 300 | 10.245 | 34.706 | 1.15 | 26.681 | 0.899 |
| 350 | 9.805 | 34.688 | 1.07 | 26.741 | 0.969 |
| 400 | 9.453 | 34.677 | 0.81 | 26.792 | 1.037 |
| 450 | 8.926 | 34.661 | 0.29 | 26.865 | 1.102 |
| 500 | 8.219 | 34.631 | 0.16 | 26.951 | 1.164 |
| 550 | 7.577 | 34.607 | 0.23 | 27.028 | 1.222 |
| 600 | 7.028 | 34.588 | 0.29 | 27.091 | 1.276 |
| 650 | 6.593 | 34.576 | 0.36 | 27.140 | 1.328 |
| 700 | 6.175 | 34.566 | 0.50 | 27.187 | 1.378 |
| 750 | 5.884 | 34.560 | 0.61 | 27.220 | 1.426 |
| 800 | 5.589 | 34.559 | 0.67 | 27.255 | 1.472 |
| 800 | 4.997 | 34.559 | 0.91 | 27.326 | 1.560 |
| 1000 | 4.516 | 34.565 | 1.09 | 27.365 | 1.642 |
| 1500 | 2.992 | 34.609 | 1.72 | 27.574 | 1.988 |
| 2000 | 2.198 | 34.640 | 2.22 | 27.668 | 2.271 |
| 2500 | 1.709 | 34.665 | 2.60 | 27.726 | 2.519 |
| 3000 | 1.576 | 34.673 | 2.72 | 27.742 | 2.756 |
| 3500 | 1.258 | 34.687 | 3.27 | 27.776 | 2.984 |
| 3800 | 1.183 | 34.690 | 3.44 | 27.784 | 3.116 |

CAST EP2-87-OC -048 DATE 31 OCT 87 TIME 0233 GMT
LAT 05 01.7N LONG 109 57.8W

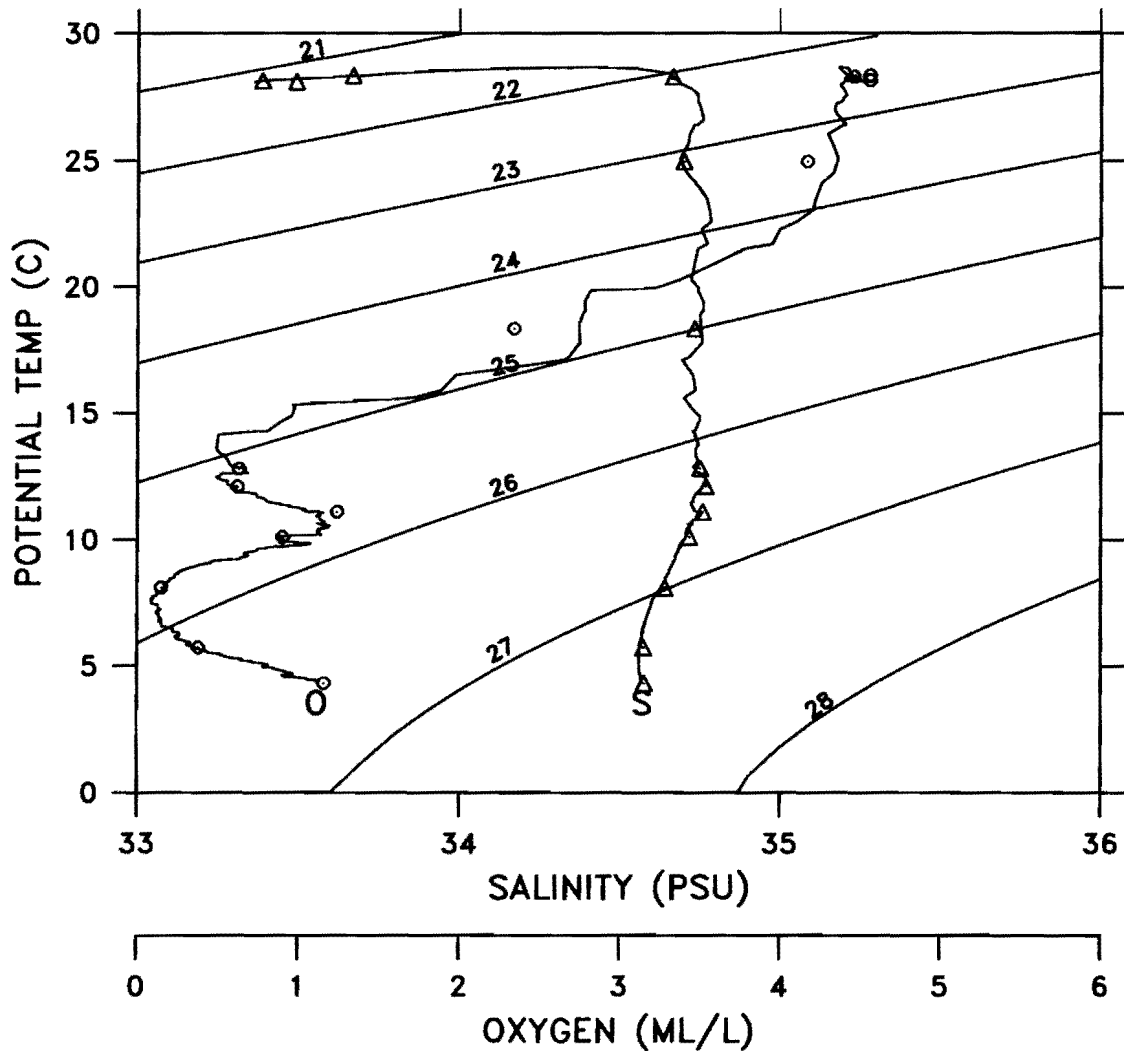


CAST EP2-87-0C -048 DATE 31 OCT 87 TIME 0233 GMT
 LAT 05 01.7N LONG 109 57.8W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 154 T SPD 04 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 27.3 WET 25.4 DEPTH 3886 M

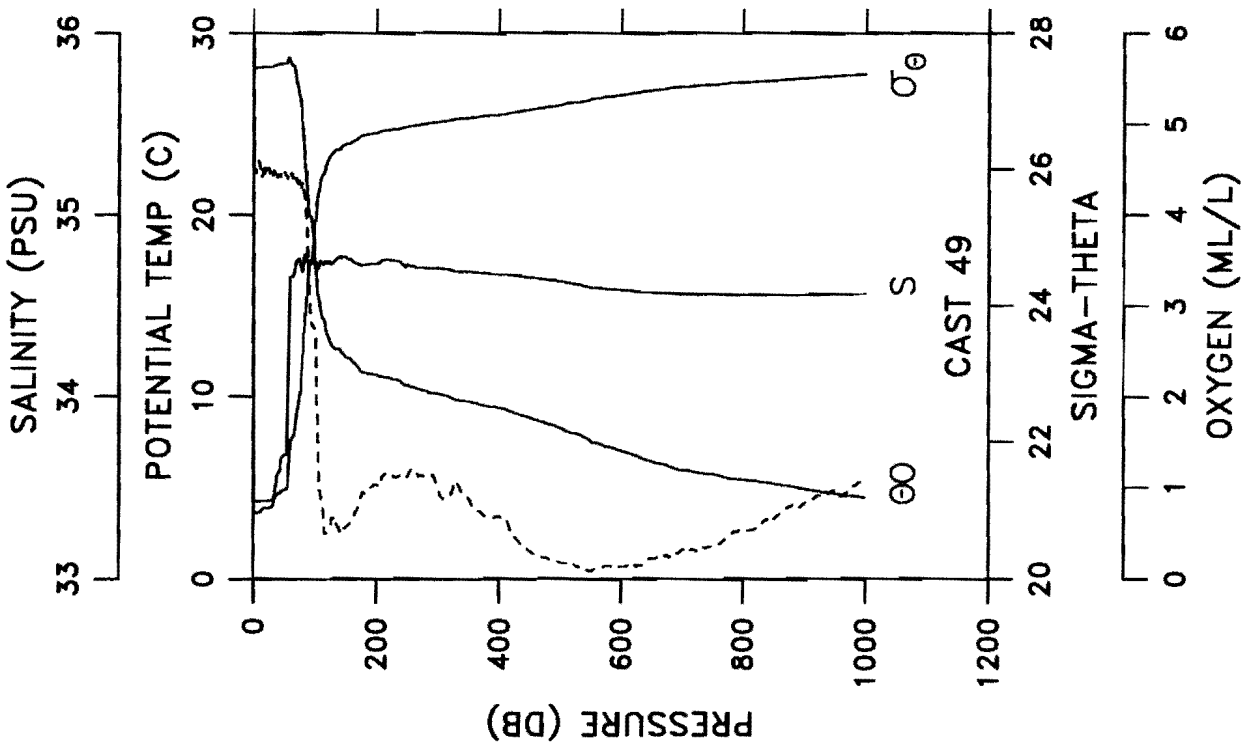


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.504 | 34.036 | 4.33 | 21.507 | 0.000 |
| 10 | 28.488 | 34.028 | 4.38 | 21.507 | 0.063 |
| 20 | 28.351 | 34.008 | 4.27 | 21.537 | 0.126 |
| 30 | 28.365 | 34.036 | 4.36 | 21.552 | 0.188 |
| 40 | 28.374 | 34.071 | 4.51 | 21.576 | 0.251 |
| 50 | 28.351 | 34.071 | 4.40 | 21.583 | 0.313 |
| 60 | 28.338 | 34.073 | 4.43 | 21.589 | 0.375 |
| 70 | 28.453 | 34.236 | 4.48 | 21.674 | 0.437 |
| 80 | 27.244 | 34.776 | 4.41 | 22.473 | 0.495 |
| 90 | 23.840 | 34.838 | 3.79 | 23.568 | 0.544 |
| 100 | 19.301 | 34.800 | 3.30 | 24.793 | 0.583 |
| 110 | 16.409 | 34.687 | 2.29 | 25.413 | 0.611 |
| 120 | 14.157 | 34.677 | 1.09 | 25.905 | 0.635 |
| 130 | 13.469 | 34.676 | 1.32 | 26.047 | 0.655 |
| 140 | 12.429 | 34.620 | 1.61 | 26.212 | 0.674 |
| 150 | 12.169 | 34.697 | 1.80 | 26.322 | 0.692 |
| 160 | 11.810 | 34.685 | 1.12 | 26.381 | 0.709 |
| 170 | 11.224 | 34.634 | 1.52 | 26.451 | 0.726 |
| 180 | 11.125 | 34.706 | 2.24 | 26.524 | 0.741 |
| 190 | 11.153 | 34.743 | 2.24 | 26.548 | 0.757 |
| 199 | 11.138 | 34.749 | 2.19 | 26.556 | 0.770 |

CAST EP2-87-OC -049 DATE 31 OCT 87 TIME 0744 GMT
LAT 06 00.3N LONG 109 59.9W

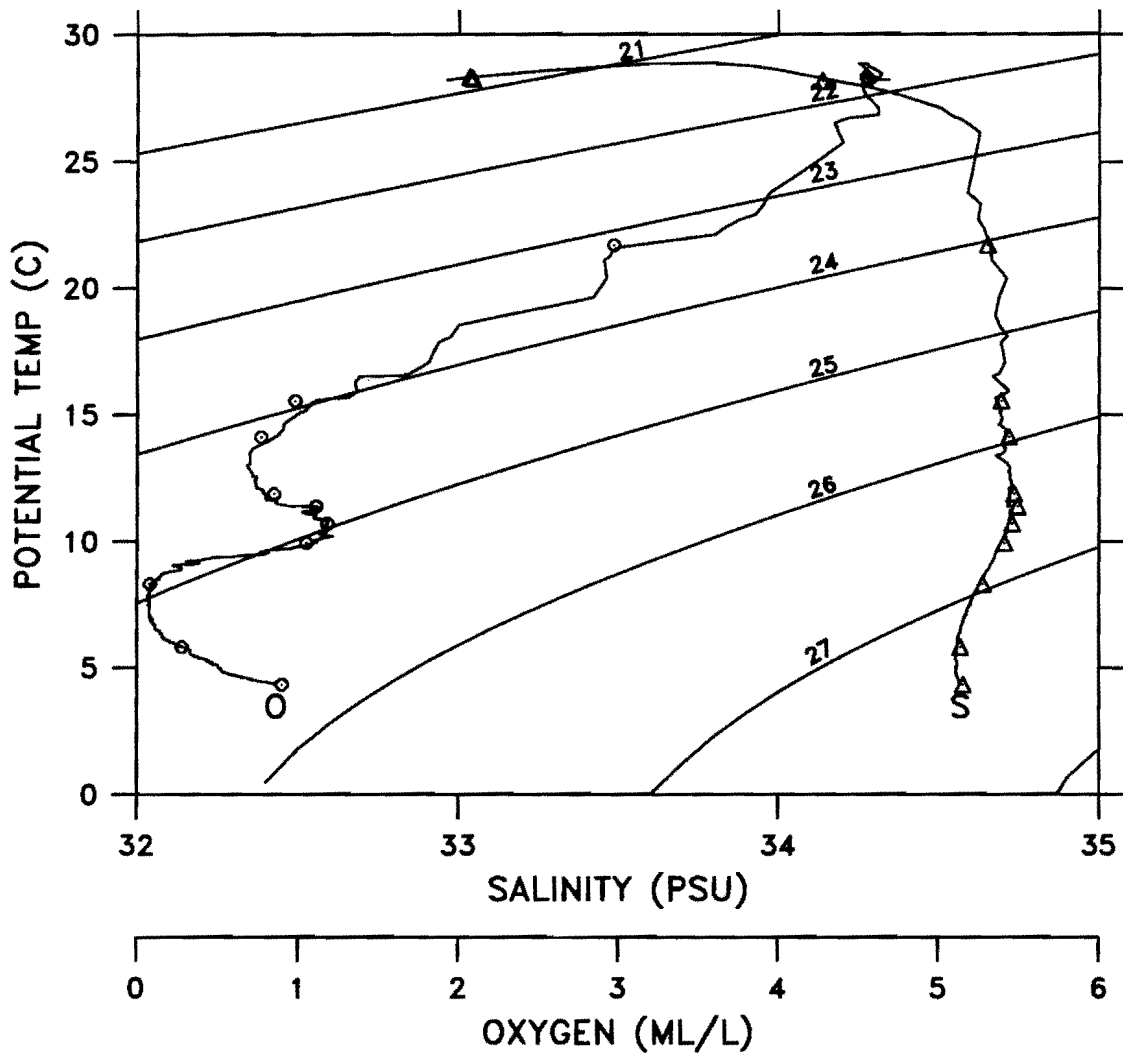


CAST EP2-87-OC -049 DATE 31 OCT 87 TIME 0744 GMT
 LAT 06 00.3N LONG 109 59.9W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 150 T SPD 04 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 25.0 DEPTH 3682 M

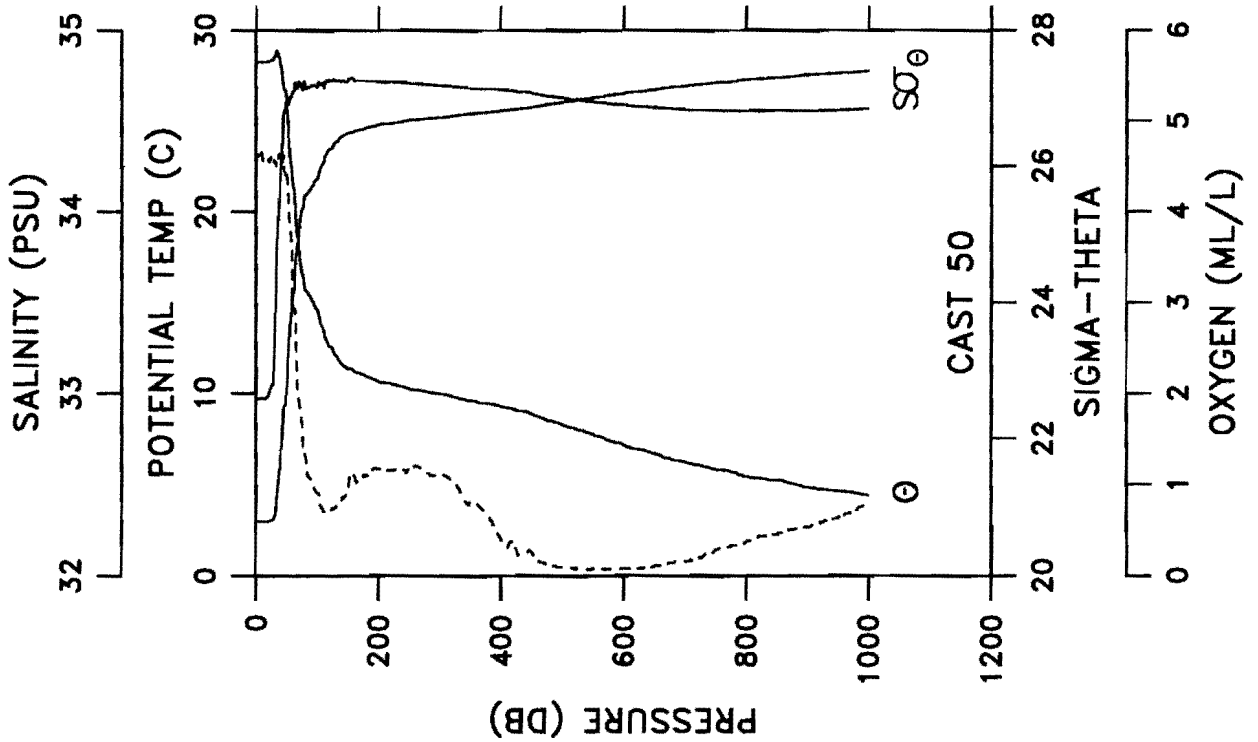


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.086 | 33.361 | 4.50 | 21.137 | 0.000 |
| 10 | 28.102 | 33.364 | 4.56 | 21.134 | 0.066 |
| 20 | 28.135 | 33.388 | 4.52 | 21.141 | 0.133 |
| 30 | 28.137 | 33.394 | 4.46 | 21.145 | 0.199 |
| 40 | 28.259 | 33.579 | 4.43 | 21.244 | 0.265 |
| 50 | 28.307 | 33.678 | 4.47 | 21.303 | 0.331 |
| 60 | 28.401 | 34.657 | 4.44 | 22.007 | 0.394 |
| 70 | 27.311 | 34.741 | 4.38 | 22.425 | 0.451 |
| 80 | 24.515 | 34.705 | 4.33 | 23.266 | 0.502 |
| 90 | 19.971 | 34.744 | 3.22 | 24.576 | 0.542 |
| 100 | 17.216 | 34.714 | 2.68 | 25.245 | 0.574 |
| 110 | 14.551 | 34.741 | 0.86 | 25.871 | 0.598 |
| 120 | 13.397 | 34.736 | 0.52 | 26.108 | 0.618 |
| 130 | 12.696 | 34.735 | 0.67 | 26.249 | 0.637 |
| 140 | 12.611 | 34.769 | 0.52 | 26.292 | 0.655 |
| 150 | 12.187 | 34.767 | 0.56 | 26.373 | 0.672 |
| 160 | 11.945 | 34.748 | 0.62 | 26.404 | 0.688 |
| 170 | 11.634 | 34.729 | 0.78 | 26.448 | 0.705 |
| 180 | 11.325 | 34.724 | 0.93 | 26.502 | 0.721 |
| 190 | 11.249 | 34.729 | 1.00 | 26.519 | 0.736 |
| 200 | 11.193 | 34.731 | 1.04 | 26.531 | 0.752 |
| 250 | 10.645 | 34.724 | 1.12 | 26.625 | 0.827 |
| 300 | 10.160 | 34.707 | 1.00 | 26.696 | 0.898 |
| 350 | 9.728 | 34.687 | 0.89 | 26.754 | 0.967 |
| 400 | 9.370 | 34.673 | 0.68 | 26.802 | 1.034 |
| 450 | 8.826 | 34.655 | 0.31 | 26.876 | 1.099 |
| 500 | 8.260 | 34.634 | 0.18 | 26.948 | 1.160 |
| 550 | 7.516 | 34.600 | 0.09 | 27.031 | 1.218 |
| 600 | 7.006 | 34.586 | 0.13 | 27.092 | 1.272 |
| 650 | 6.447 | 34.572 | 0.22 | 27.157 | 1.324 |
| 700 | 5.963 | 34.565 | 0.32 | 27.213 | 1.373 |
| 750 | 5.737 | 34.563 | 0.35 | 27.241 | 1.419 |
| 800 | 5.426 | 34.560 | 0.53 | 27.276 | 1.464 |
| 900 | 4.933 | 34.560 | 0.82 | 27.334 | 1.551 |
| 1000 | 4.441 | 34.566 | 1.08 | 27.394 | 1.632 |
| 1012 | 4.400 | 34.567 | 1.11 | 27.399 | 1.642 |

CAST EP2-87-0C -050 DATE 31 OCT 87 TIME 0116 GMT
LAT 07 00.2N LONG 109 59.4W

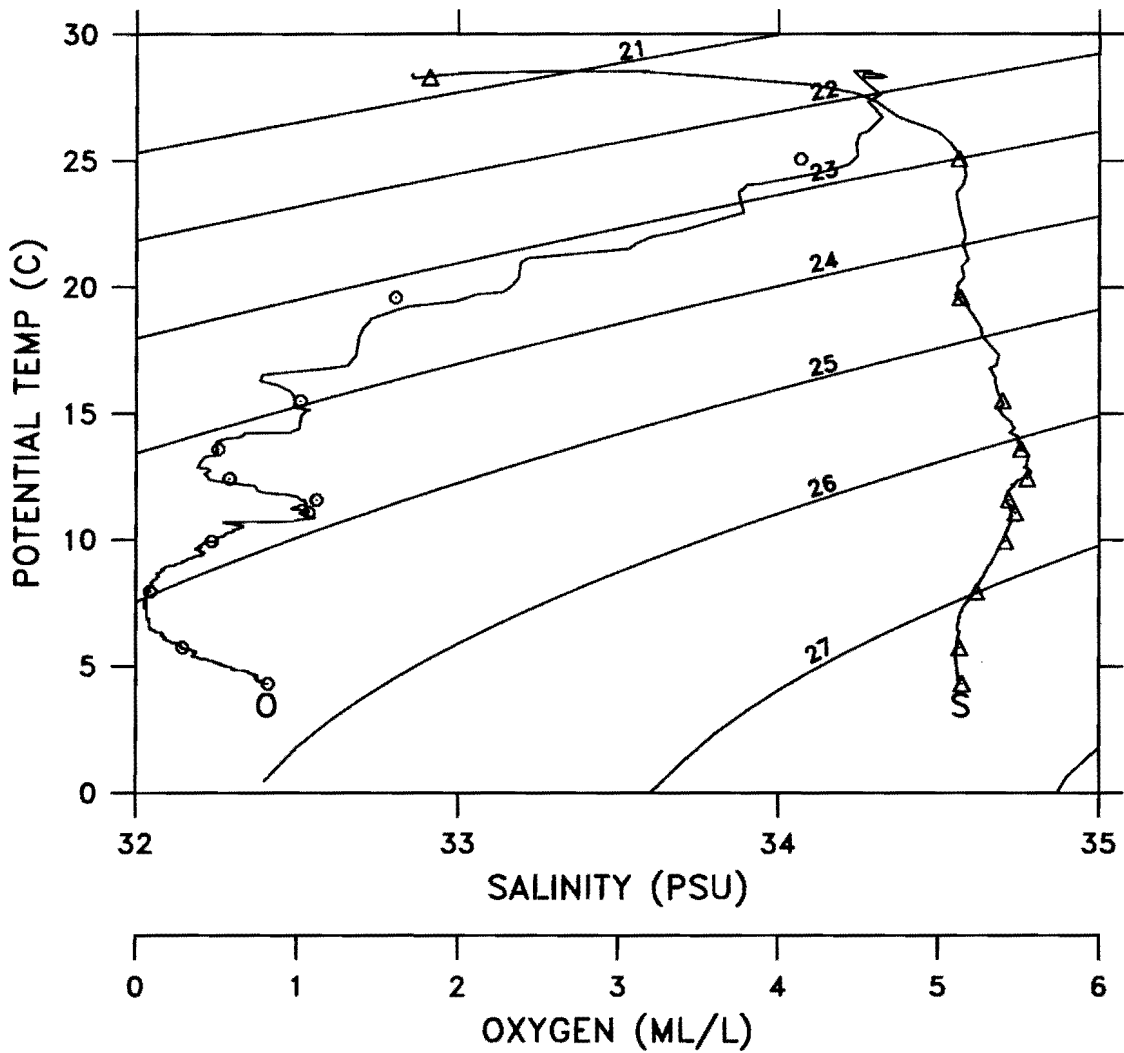


CAST EP2-87-0C -050 DATE 31 OCT 87 TIME 0116 GMT
 LAT 07 00.2N LONG 109 59.4W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 125 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 27.0 WET 25.5 DEPTH 3724 M

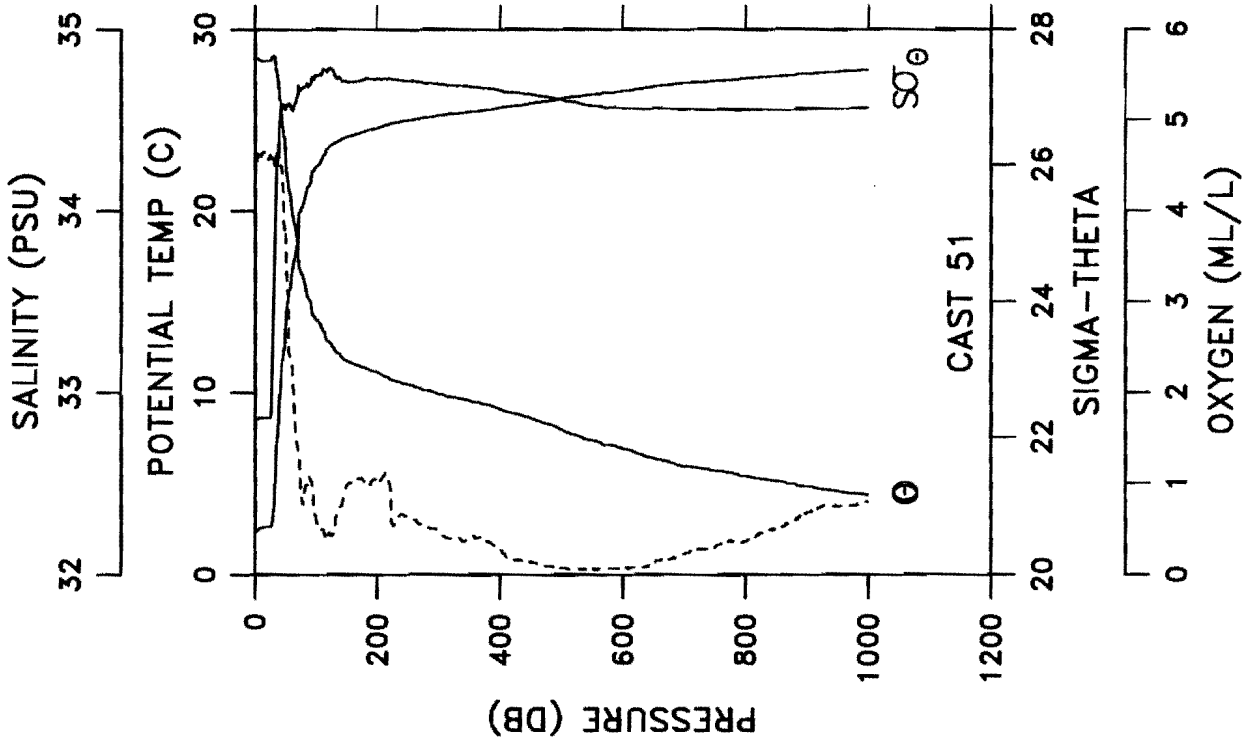


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.224 | 32.964 | 4.59 | 20.794 | 0.000 |
| 10 | 28.238 | 32.971 | 4.61 | 20.794 | 0.070 |
| 20 | 28.269 | 32.987 | 4.58 | 20.797 | 0.139 |
| 30 | 28.472 | 33.160 | 4.55 | 20.860 | 0.209 |
| 40 | 28.137 | 34.196 | 4.60 | 21.748 | 0.275 |
| 50 | 26.140 | 34.628 | 4.38 | 22.711 | 0.330 |
| 60 | 21.628 | 34.662 | 3.01 | 24.066 | 0.375 |
| 70 | 18.080 | 34.714 | 1.95 | 25.035 | 0.409 |
| 80 | 15.758 | 34.698 | 1.33 | 25.571 | 0.435 |
| 90 | 15.286 | 34.692 | 1.06 | 25.672 | 0.459 |
| 100 | 14.627 | 34.688 | 0.91 | 25.814 | 0.482 |
| 110 | 13.553 | 34.706 | 0.71 | 26.053 | 0.503 |
| 120 | 12.596 | 34.725 | 0.72 | 26.261 | 0.522 |
| 130 | 12.096 | 34.720 | 0.74 | 26.354 | 0.539 |
| 140 | 11.642 | 34.717 | 0.82 | 26.437 | 0.556 |
| 150 | 11.387 | 34.722 | 0.97 | 26.489 | 0.572 |
| 160 | 11.228 | 34.728 | 1.10 | 26.523 | 0.587 |
| 170 | 11.102 | 34.722 | 1.05 | 26.541 | 0.602 |
| 180 | 10.945 | 34.721 | 1.11 | 26.568 | 0.618 |
| 190 | 10.816 | 34.720 | 1.17 | 26.591 | 0.633 |
| 200 | 10.675 | 34.716 | 1.18 | 26.613 | 0.647 |
| 250 | 10.264 | 34.708 | 1.17 | 26.679 | 0.719 |
| 300 | 9.964 | 34.695 | 1.11 | 26.720 | 0.789 |
| 350 | 9.585 | 34.680 | 0.81 | 26.772 | 0.857 |
| 400 | 9.266 | 34.672 | 0.40 | 26.818 | 0.924 |
| 450 | 8.853 | 34.653 | 0.26 | 26.870 | 0.988 |
| 500 | 8.257 | 34.628 | 0.10 | 26.943 | 1.050 |
| 550 | 7.723 | 34.606 | 0.08 | 27.006 | 1.108 |
| 600 | 7.171 | 34.588 | 0.08 | 27.070 | 1.164 |
| 650 | 6.698 | 34.574 | 0.11 | 27.125 | 1.217 |
| 700 | 6.229 | 34.564 | 0.16 | 27.179 | 1.267 |
| 750 | 5.833 | 34.559 | 0.28 | 27.225 | 1.315 |
| 800 | 5.448 | 34.555 | 0.37 | 27.269 | 1.361 |
| 900 | 4.854 | 34.556 | 0.53 | 27.340 | 1.448 |
| 1000 | 4.402 | 34.567 | 0.83 | 27.399 | 1.529 |
| 1010 | 4.339 | 34.568 | 0.86 | 27.406 | 1.537 |

CAST EP2-87-OC -051 DATE 31 OCT 87 TIME 1839 GMT
LAT 07 59.8N LONG 109 59.9W

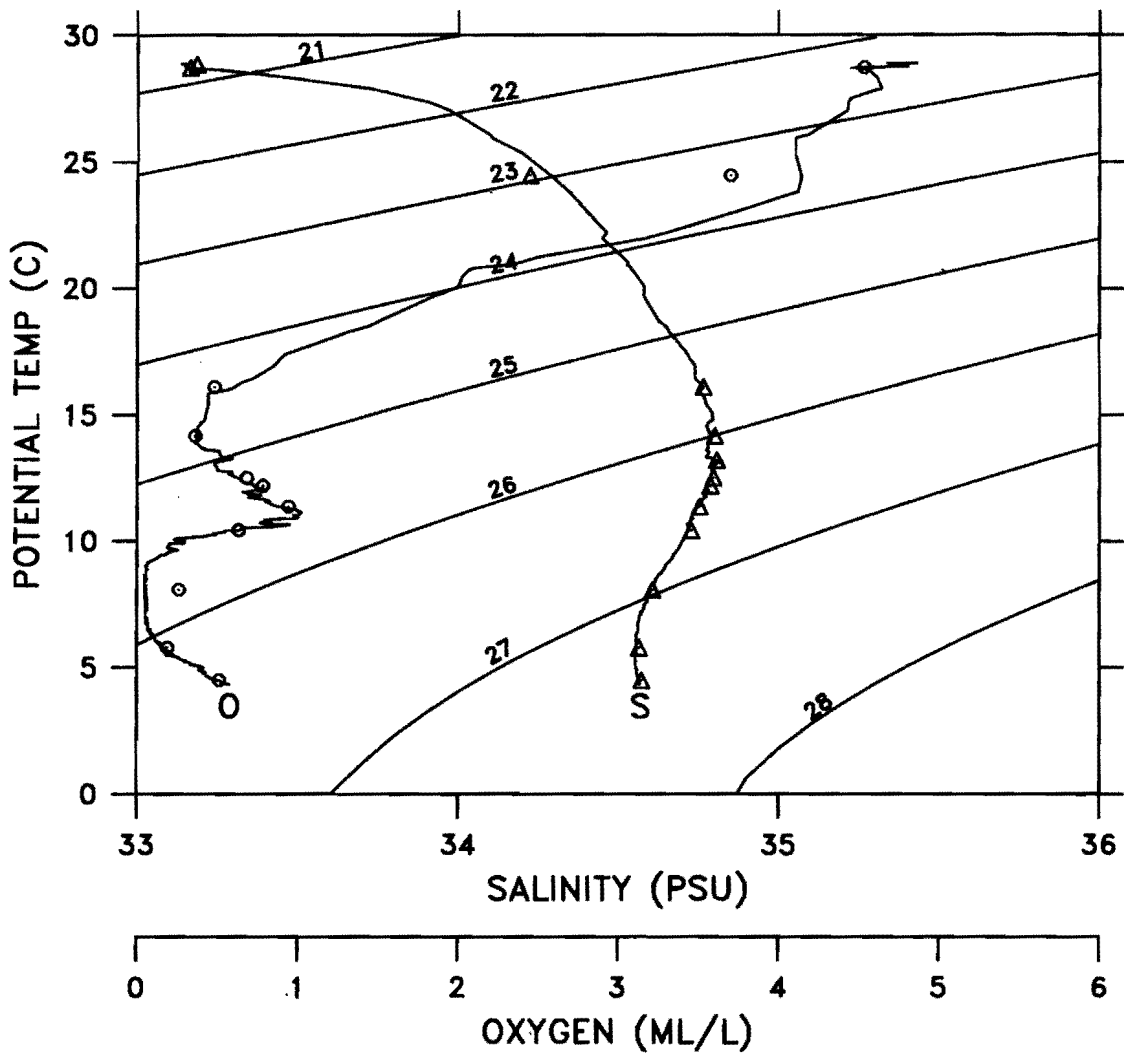


CAST EP2-87-OC -051 DATE 31 OCT 87 TIME 1839 GMT
 LAT 07 59.8N LONG 109 59.9W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 085 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 29.1 WET 26.3 DEPTH 3621 M

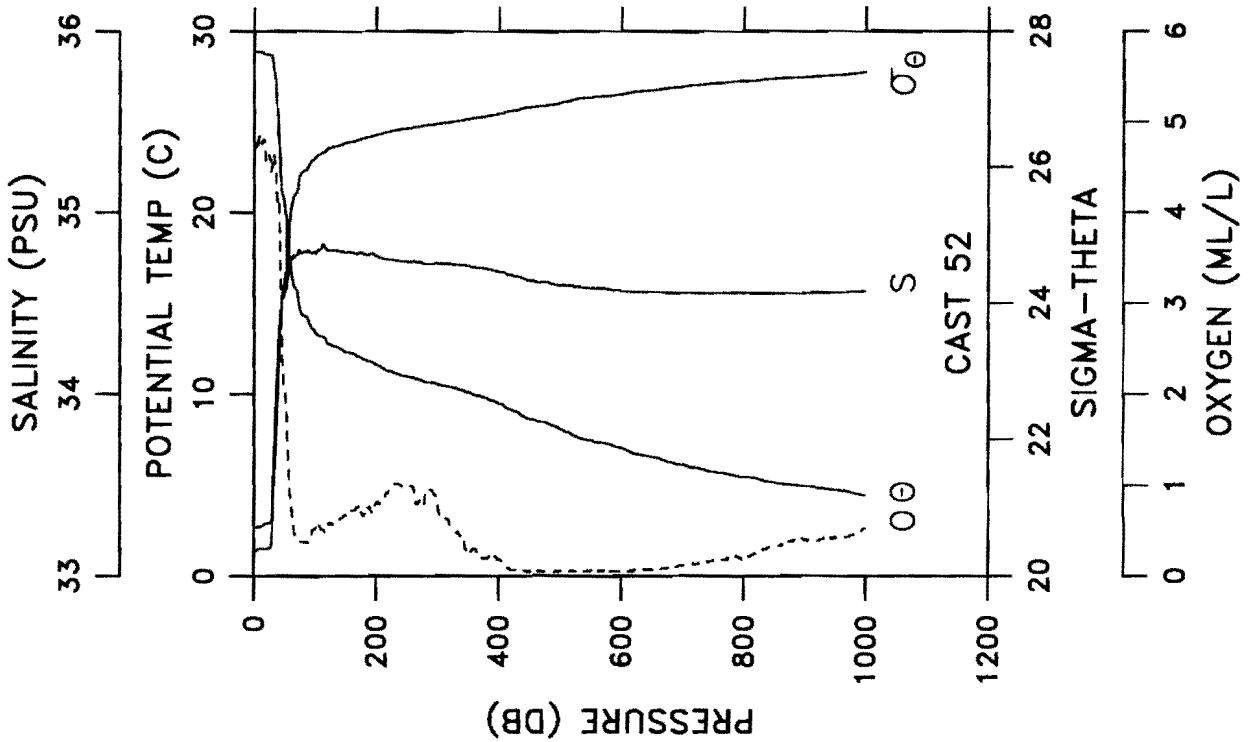


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.433 | 32.856 | 4.54 | 20.645 | 0.000 |
| 10 | 28.286 | 32.857 | 4.60 | 20.693 | 0.071 |
| 20 | 28.271 | 32.859 | 4.61 | 20.700 | 0.142 |
| 30 | 28.530 | 33.263 | 4.58 | 20.918 | 0.212 |
| 40 | 26.173 | 34.493 | 4.56 | 22.599 | 0.273 |
| 50 | 22.959 | 34.585 | 3.78 | 23.617 | 0.321 |
| 60 | 20.077 | 34.558 | 2.34 | 24.405 | 0.359 |
| 70 | 18.064 | 34.635 | 1.38 | 24.978 | 0.392 |
| 80 | 16.130 | 34.679 | 0.87 | 25.472 | 0.419 |
| 90 | 15.037 | 34.695 | 1.04 | 25.730 | 0.442 |
| 100 | 14.030 | 34.744 | 0.60 | 25.983 | 0.464 |
| 110 | 13.528 | 34.767 | 0.50 | 26.105 | 0.484 |
| 120 | 12.808 | 34.780 | 0.45 | 26.261 | 0.502 |
| 130 | 12.366 | 34.747 | 0.47 | 26.322 | 0.520 |
| 140 | 12.003 | 34.723 | 0.75 | 26.374 | 0.537 |
| 150 | 11.729 | 34.712 | 0.99 | 26.417 | 0.553 |
| 160 | 11.595 | 34.709 | 1.02 | 26.440 | 0.569 |
| 170 | 11.502 | 34.713 | 1.05 | 26.461 | 0.586 |
| 180 | 11.360 | 34.728 | 1.01 | 26.499 | 0.601 |
| 190 | 11.217 | 34.726 | 1.02 | 26.523 | 0.617 |
| 200 | 11.136 | 34.728 | 1.06 | 26.540 | 0.632 |
| 250 | 10.440 | 34.717 | 0.62 | 26.655 | 0.706 |
| 300 | 9.922 | 34.697 | 0.48 | 26.729 | 0.776 |
| 350 | 9.563 | 34.684 | 0.39 | 26.779 | 0.844 |
| 400 | 9.066 | 34.662 | 0.28 | 26.844 | 0.910 |
| 450 | 8.576 | 34.641 | 0.14 | 26.904 | 0.972 |
| 500 | 7.934 | 34.611 | 0.07 | 26.978 | 1.032 |
| 550 | 7.356 | 34.578 | 0.05 | 27.036 | 1.089 |
| 600 | 6.888 | 34.564 | 0.08 | 27.091 | 1.143 |
| 650 | 6.390 | 34.566 | 0.12 | 27.160 | 1.195 |
| 700 | 5.926 | 34.558 | 0.22 | 27.213 | 1.243 |
| 750 | 5.691 | 34.556 | 0.30 | 27.241 | 1.290 |
| 800 | 5.375 | 34.553 | 0.37 | 27.276 | 1.336 |
| 900 | 4.823 | 34.559 | 0.68 | 27.346 | 1.422 |
| 1000 | 4.346 | 34.566 | 0.80 | 27.404 | 1.501 |
| 1007 | 4.314 | 34.566 | 0.81 | 27.408 | 1.507 |

CAST EP2-87-OC -052 DATE 01 NOV 87 TIME 0004 GMT
LAT 09 00.1N LONG 110 00.8W

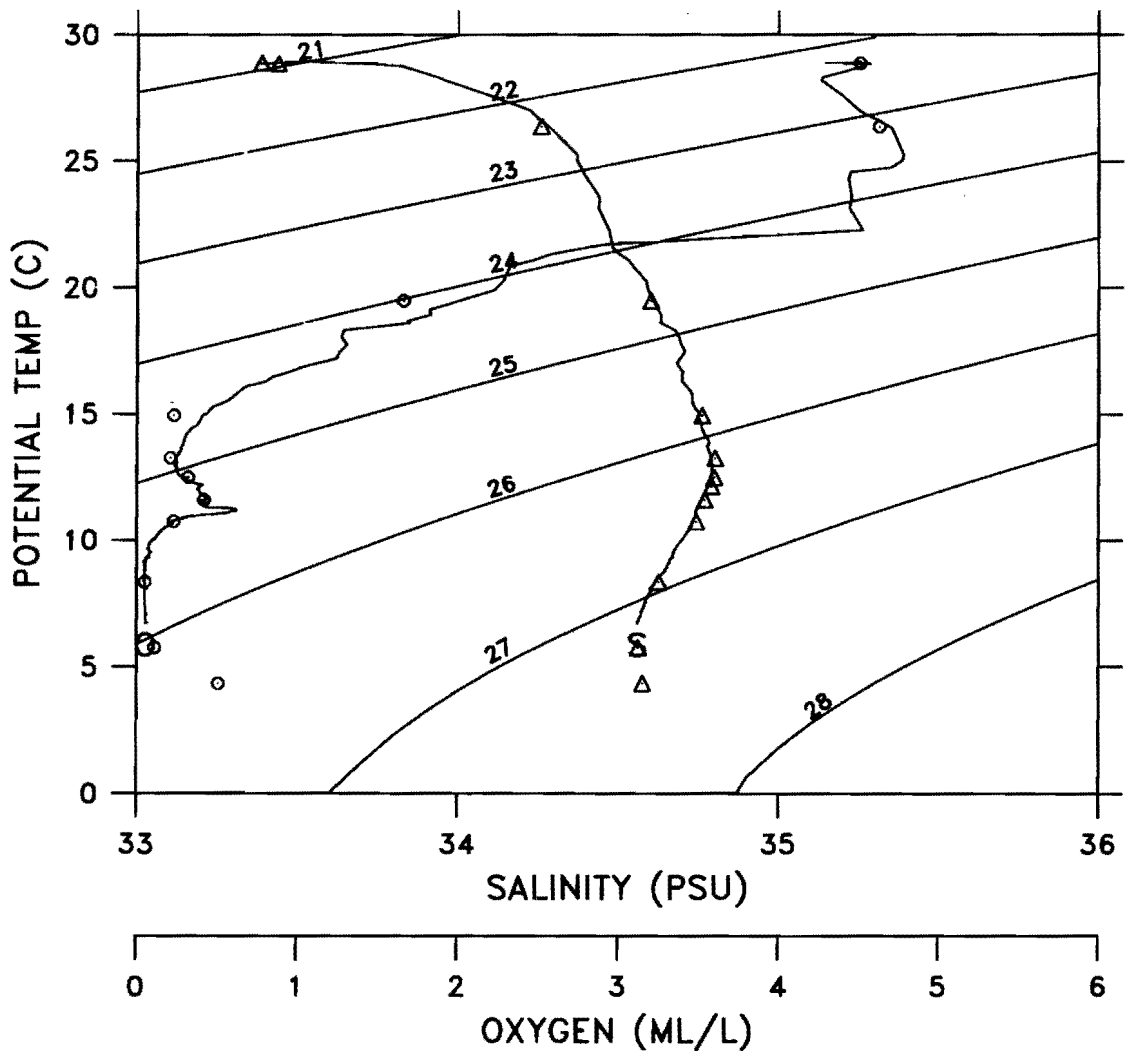


CAST EP2-87-OC -052 DATE 01 NOV 87 TIME 0004 GMT
 LAT 09 00.1N LONG 110 00.8W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 070 T SPD 14 KT VISIBILITY 9
 CLOUD 8 AMOUNT 4 DRY 29.2 WET 27.2 DEPTH 3895 M

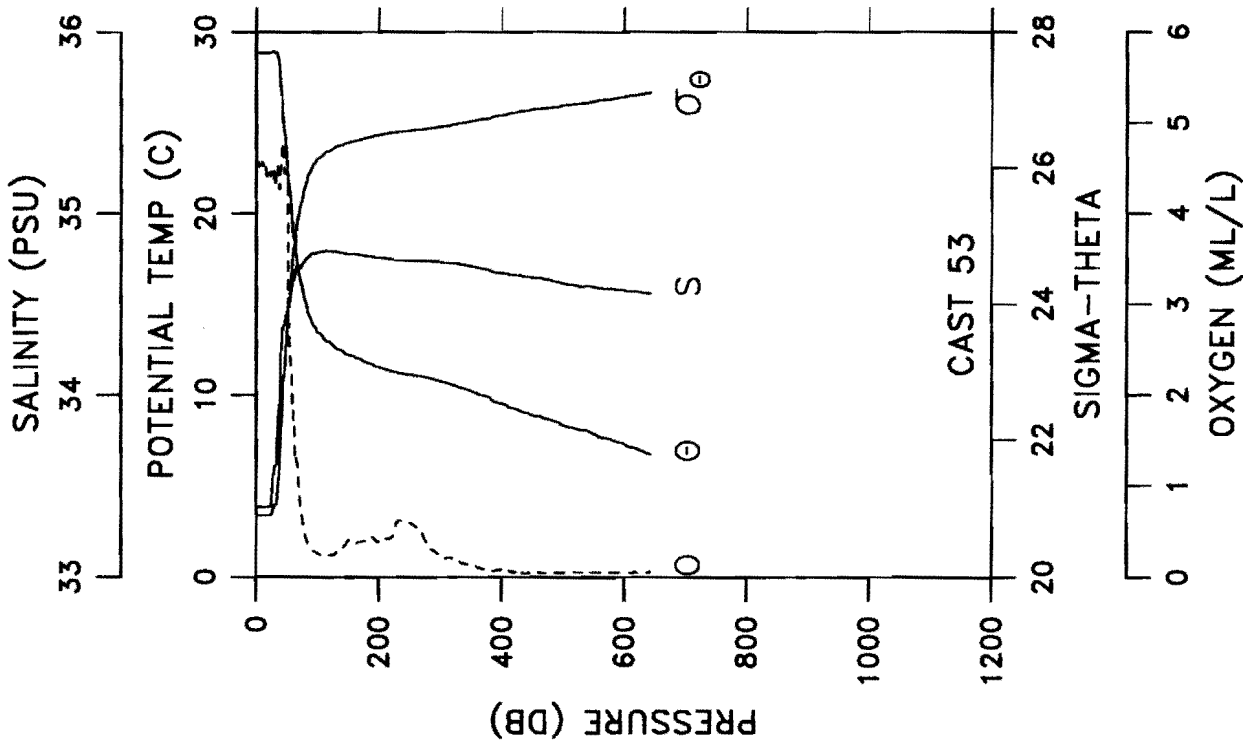


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.872 | 33.136 | 4.88 | 20.710 | 0.000 |
| 10 | 28.874 | 33.149 | 4.86 | 20.719 | 0.070 |
| 20 | 28.722 | 33.148 | 4.59 | 20.769 | 0.141 |
| 30 | 28.622 | 33.265 | 4.56 | 20.890 | 0.211 |
| 40 | 24.397 | 34.294 | 4.14 | 22.991 | 0.270 |
| 50 | 20.506 | 34.556 | 2.03 | 24.290 | 0.310 |
| 60 | 16.933 | 34.739 | 0.85 | 25.331 | 0.342 |
| 70 | 15.698 | 34.767 | 0.44 | 25.638 | 0.366 |
| 80 | 14.373 | 34.781 | 0.38 | 25.940 | 0.388 |
| 90 | 13.916 | 34.784 | 0.36 | 26.039 | 0.409 |
| 100 | 13.391 | 34.777 | 0.52 | 26.142 | 0.428 |
| 110 | 13.195 | 34.801 | 0.52 | 26.200 | 0.446 |
| 120 | 12.811 | 34.790 | 0.50 | 26.268 | 0.465 |
| 130 | 12.659 | 34.790 | 0.56 | 26.299 | 0.482 |
| 140 | 12.534 | 34.786 | 0.62 | 26.320 | 0.500 |
| 150 | 12.329 | 34.778 | 0.68 | 26.354 | 0.517 |
| 160 | 12.250 | 34.779 | 0.72 | 26.370 | 0.534 |
| 170 | 12.081 | 34.773 | 0.76 | 26.398 | 0.551 |
| 180 | 11.931 | 34.772 | 0.68 | 26.426 | 0.567 |
| 190 | 11.813 | 34.771 | 0.74 | 26.448 | 0.583 |
| 200 | 11.634 | 34.761 | 0.80 | 26.473 | 0.599 |
| 250 | 10.979 | 34.728 | 0.98 | 26.568 | 0.677 |
| 300 | 10.542 | 34.719 | 0.81 | 26.639 | 0.752 |
| 350 | 10.109 | 34.706 | 0.26 | 26.704 | 0.823 |
| 400 | 9.470 | 34.673 | 0.18 | 26.786 | 0.892 |
| 450 | 8.633 | 34.625 | 0.05 | 26.883 | 0.957 |
| 500 | 8.092 | 34.599 | 0.06 | 26.945 | 1.018 |
| 550 | 7.486 | 34.583 | 0.05 | 27.022 | 1.076 |
| 600 | 7.058 | 34.569 | 0.05 | 27.071 | 1.131 |
| 650 | 6.566 | 34.562 | 0.07 | 27.133 | 1.183 |
| 700 | 6.145 | 34.556 | 0.11 | 27.183 | 1.233 |
| 750 | 5.760 | 34.556 | 0.18 | 27.232 | 1.281 |
| 800 | 5.471 | 34.556 | 0.20 | 27.268 | 1.327 |
| 900 | 4.976 | 34.556 | 0.40 | 27.326 | 1.414 |
| 1000 | 4.428 | 34.565 | 0.52 | 27.395 | 1.496 |
| 1009 | 4.327 | 34.566 | 0.58 | 27.406 | 1.503 |

CAST EP2-87-OC -053 DATE 01 NOV 87 TIME 0631 GMT
LAT 10 02.5N LONG 110 00.9W



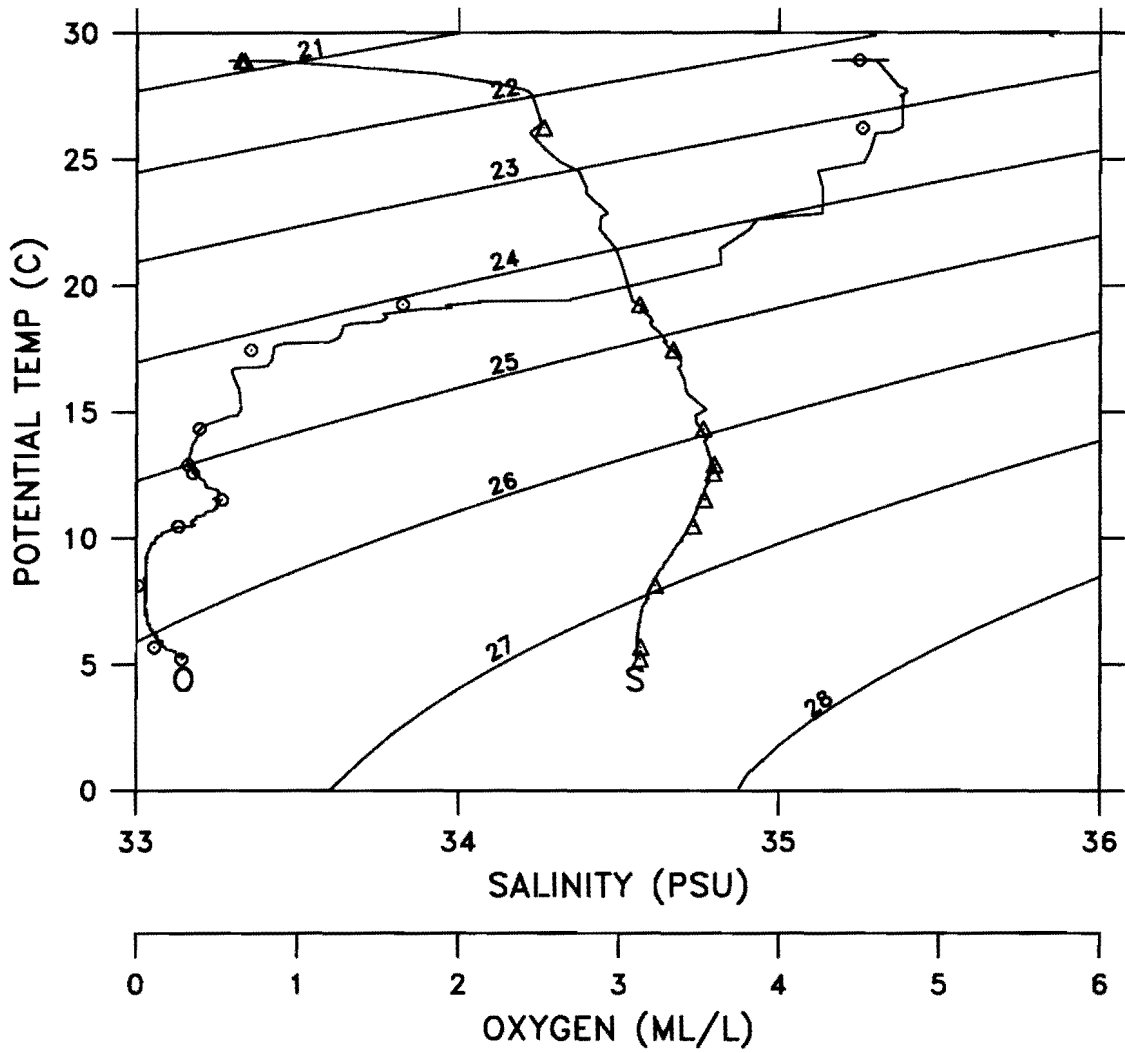
CAST EP2-87-OC -053 DATE 01 NOV 87 TIME 0631 GMT
 LAT 10 02.5N LONG 110 00.9W WEATHER 2 SEA STATE 2
 BAROMETER 14 WIND DIR 060 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 28.0 WET 26.0 DEPTH 3349 M



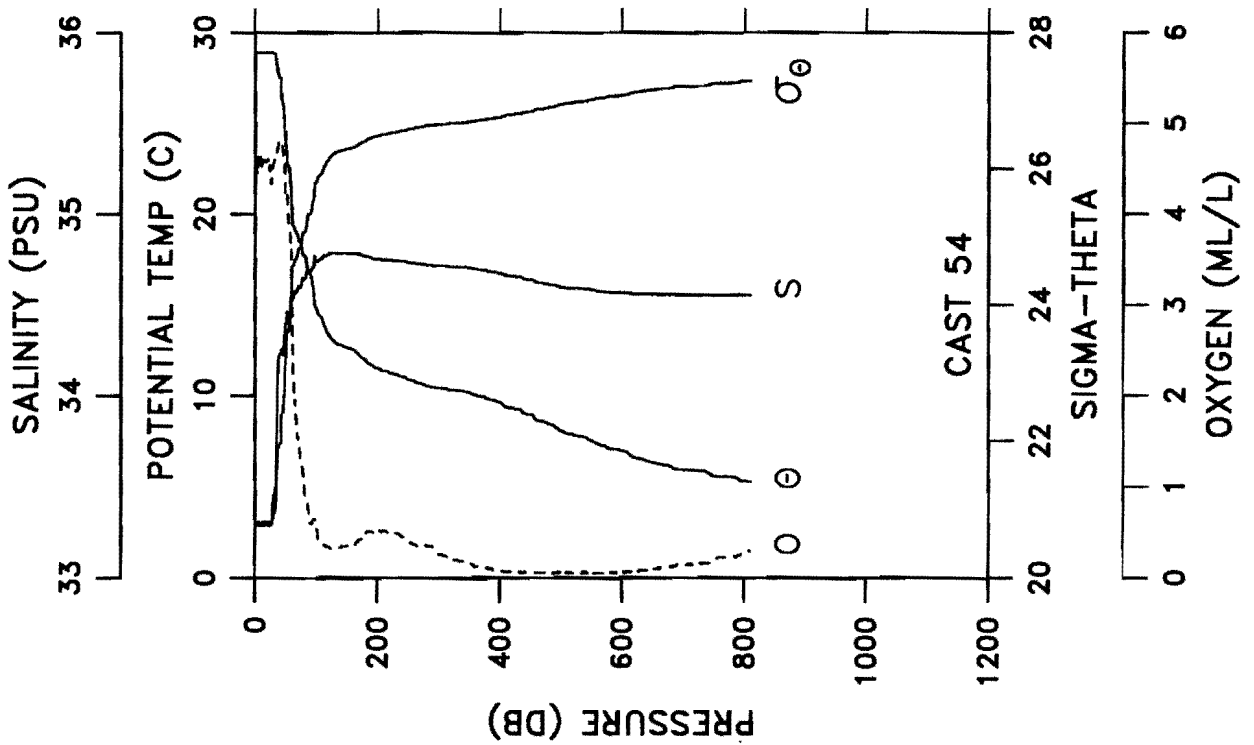
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.866 | 33.387 | 4.57 | 20.901 | 0.000 |
| 10 | 28.851 | 33.386 | 4.55 | 20.904 | 0.069 |
| 20 | 28.849 | 33.386 | 4.46 | 20.906 | 0.137 |
| 30 | 28.883 | 33.610 | 4.29 | 21.062 | 0.206 |
| 40 | 26.991 | 34.225 | 4.50 | 22.139 | 0.270 |
| 50 | 23.133 | 34.437 | 4.44 | 23.470 | 0.320 |
| 60 | 18.929 | 34.633 | 1.83 | 24.760 | 0.358 |
| 70 | 16.661 | 34.702 | 0.95 | 25.366 | 0.387 |
| 80 | 15.142 | 34.746 | 0.45 | 25.745 | 0.411 |
| 90 | 14.099 | 34.778 | 0.30 | 25.995 | 0.432 |
| 100 | 13.447 | 34.786 | 0.26 | 26.137 | 0.452 |
| 110 | 13.123 | 34.790 | 0.24 | 26.206 | 0.471 |
| 120 | 12.908 | 34.793 | 0.25 | 26.252 | 0.489 |
| 130 | 12.563 | 34.790 | 0.26 | 26.318 | 0.506 |
| 140 | 12.440 | 34.786 | 0.31 | 26.338 | 0.523 |
| 150 | 12.224 | 34.777 | 0.40 | 26.373 | 0.540 |
| 160 | 12.114 | 34.777 | 0.39 | 26.395 | 0.557 |
| 170 | 11.974 | 34.773 | 0.39 | 26.419 | 0.574 |
| 180 | 11.802 | 34.766 | 0.40 | 26.446 | 0.590 |
| 190 | 11.675 | 34.763 | 0.43 | 26.467 | 0.606 |
| 200 | 11.552 | 34.757 | 0.39 | 26.486 | 0.622 |
| 250 | 11.130 | 34.742 | 0.59 | 26.552 | 0.700 |
| 300 | 10.765 | 34.734 | 0.23 | 26.611 | 0.776 |
| 350 | 10.219 | 34.710 | 0.13 | 26.688 | 0.849 |
| 400 | 9.528 | 34.673 | 0.09 | 26.776 | 0.918 |
| 450 | 8.871 | 34.650 | 0.05 | 26.865 | 0.983 |
| 500 | 8.313 | 34.614 | 0.05 | 26.923 | 1.046 |
| 550 | 7.855 | 34.595 | 0.05 | 26.978 | 1.106 |
| 600 | 7.278 | 34.576 | 0.05 | 27.046 | 1.163 |
| 642 | 6.715 | 34.561 | 0.05 | 27.112 | 1.208 |

CAST EP2-87-OC -054 DATE 01 NOV 87 TIME 1151 GMT

LAT 10 15.3N LONG 109 15.0W

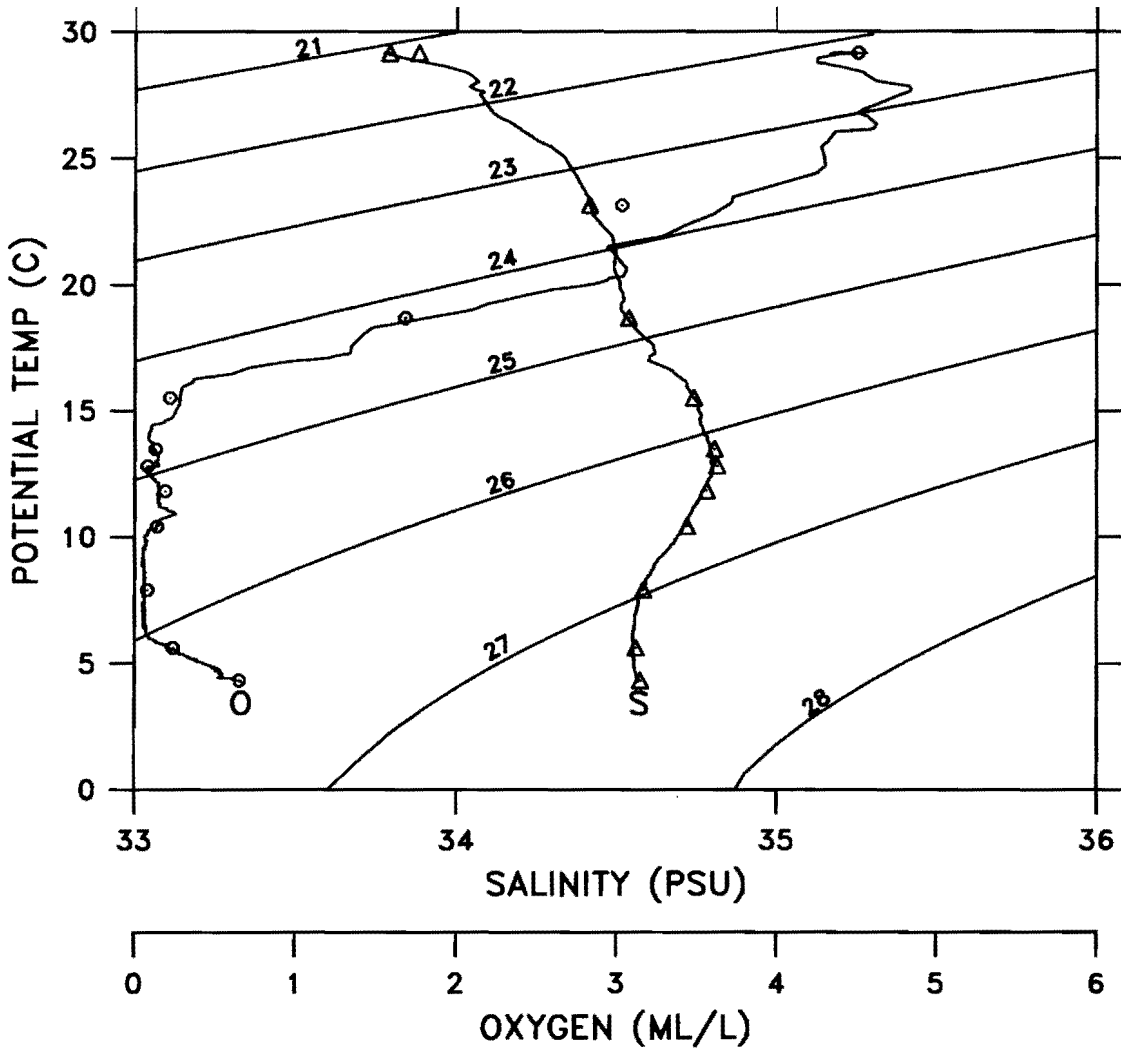


CAST EP2-87-OC -054 DATE 01 NOV 87 TIME 1151 GMT
 LAT 10 15.3N LONG 109 15.0W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 085 T SPD 10 KT VISIBILITY 9
 CLOUD 8 AMOUNT 2 DRY 27.6 WET 26.0 DEPTH 0823 M

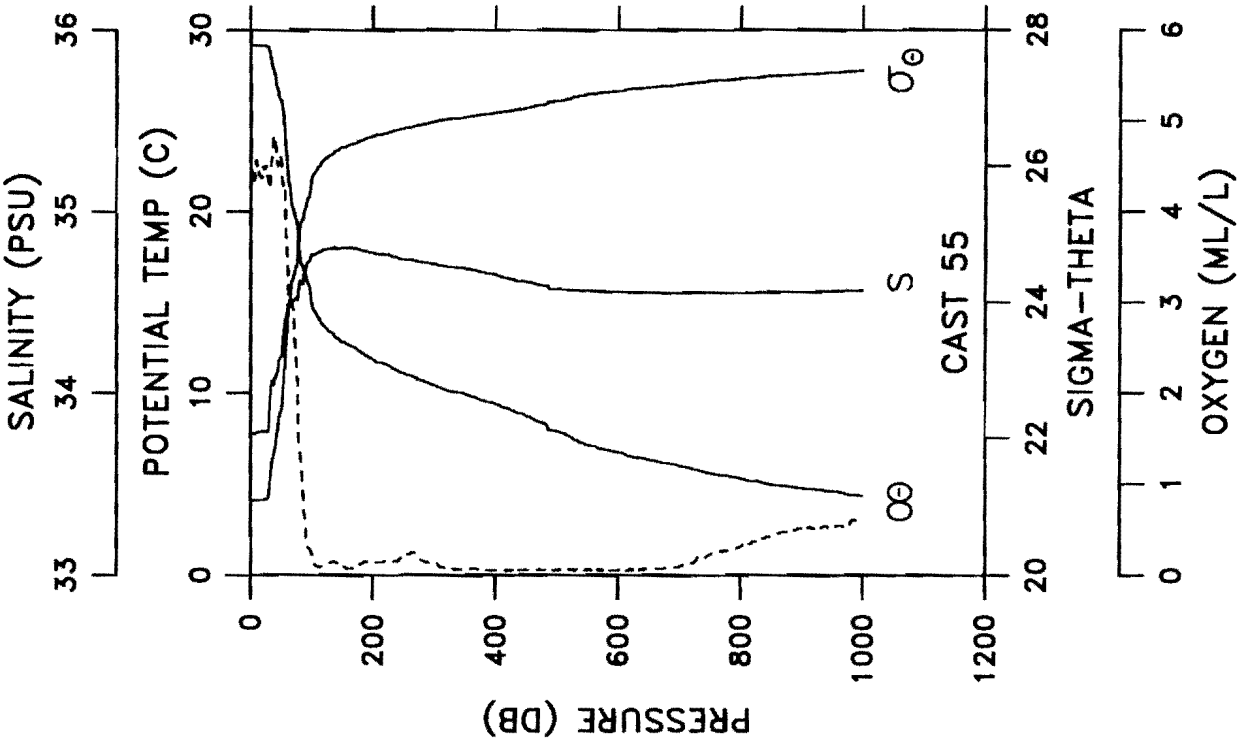


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.901 | 33.288 | 4.54 | 20.814 | 0.000 |
| 10 | 28.900 | 33.288 | 4.53 | 20.815 | 0.070 |
| 20 | 28.895 | 33.287 | 4.60 | 20.816 | 0.139 |
| 30 | 28.879 | 33.453 | 4.56 | 20.945 | 0.208 |
| 40 | 27.502 | 34.228 | 4.75 | 21.977 | 0.272 |
| 50 | 23.878 | 34.397 | 4.27 | 23.223 | 0.326 |
| 60 | 20.107 | 34.523 | 3.16 | 24.371 | 0.368 |
| 70 | 18.730 | 34.597 | 1.55 | 24.783 | 0.401 |
| 80 | 17.727 | 34.640 | 1.02 | 25.064 | 0.432 |
| 90 | 16.707 | 34.684 | 0.60 | 25.342 | 0.460 |
| 100 | 14.828 | 34.738 | 0.57 | 25.808 | 0.484 |
| 110 | 14.199 | 34.760 | 0.37 | 25.960 | 0.505 |
| 120 | 13.357 | 34.781 | 0.34 | 26.152 | 0.525 |
| 130 | 12.980 | 34.785 | 0.32 | 26.231 | 0.543 |
| 140 | 12.783 | 34.785 | 0.33 | 26.270 | 0.561 |
| 150 | 12.654 | 34.785 | 0.35 | 26.296 | 0.579 |
| 160 | 12.550 | 34.783 | 0.36 | 26.315 | 0.596 |
| 170 | 12.247 | 34.782 | 0.42 | 26.373 | 0.614 |
| 180 | 11.998 | 34.770 | 0.44 | 26.411 | 0.630 |
| 190 | 11.699 | 34.759 | 0.51 | 26.460 | 0.647 |
| 200 | 11.525 | 34.753 | 0.49 | 26.487 | 0.663 |
| 250 | 10.902 | 34.735 | 0.42 | 26.588 | 0.740 |
| 300 | 10.432 | 34.716 | 0.26 | 26.656 | 0.813 |
| 350 | 10.167 | 34.706 | 0.16 | 26.694 | 0.885 |
| 400 | 9.650 | 34.674 | 0.09 | 26.757 | 0.955 |
| 450 | 8.974 | 34.640 | 0.06 | 26.841 | 1.021 |
| 500 | 8.058 | 34.598 | 0.05 | 26.950 | 1.083 |
| 550 | 7.527 | 34.584 | 0.05 | 27.017 | 1.141 |
| 600 | 6.988 | 34.567 | 0.05 | 27.079 | 1.196 |
| 650 | 6.351 | 34.558 | 0.10 | 27.158 | 1.247 |
| 700 | 5.931 | 34.554 | 0.14 | 27.209 | 1.296 |
| 750 | 5.582 | 34.554 | 0.19 | 27.253 | 1.343 |
| 800 | 5.320 | 34.554 | 0.28 | 27.285 | 1.388 |
| 810 | 5.272 | 34.555 | 0.29 | 27.291 | 1.397 |

CAST EP2-87-0C -055 DATE 02 NOV 87 TIME 0408 GMT
LAT 11 00.0N LONG 110 00.5W

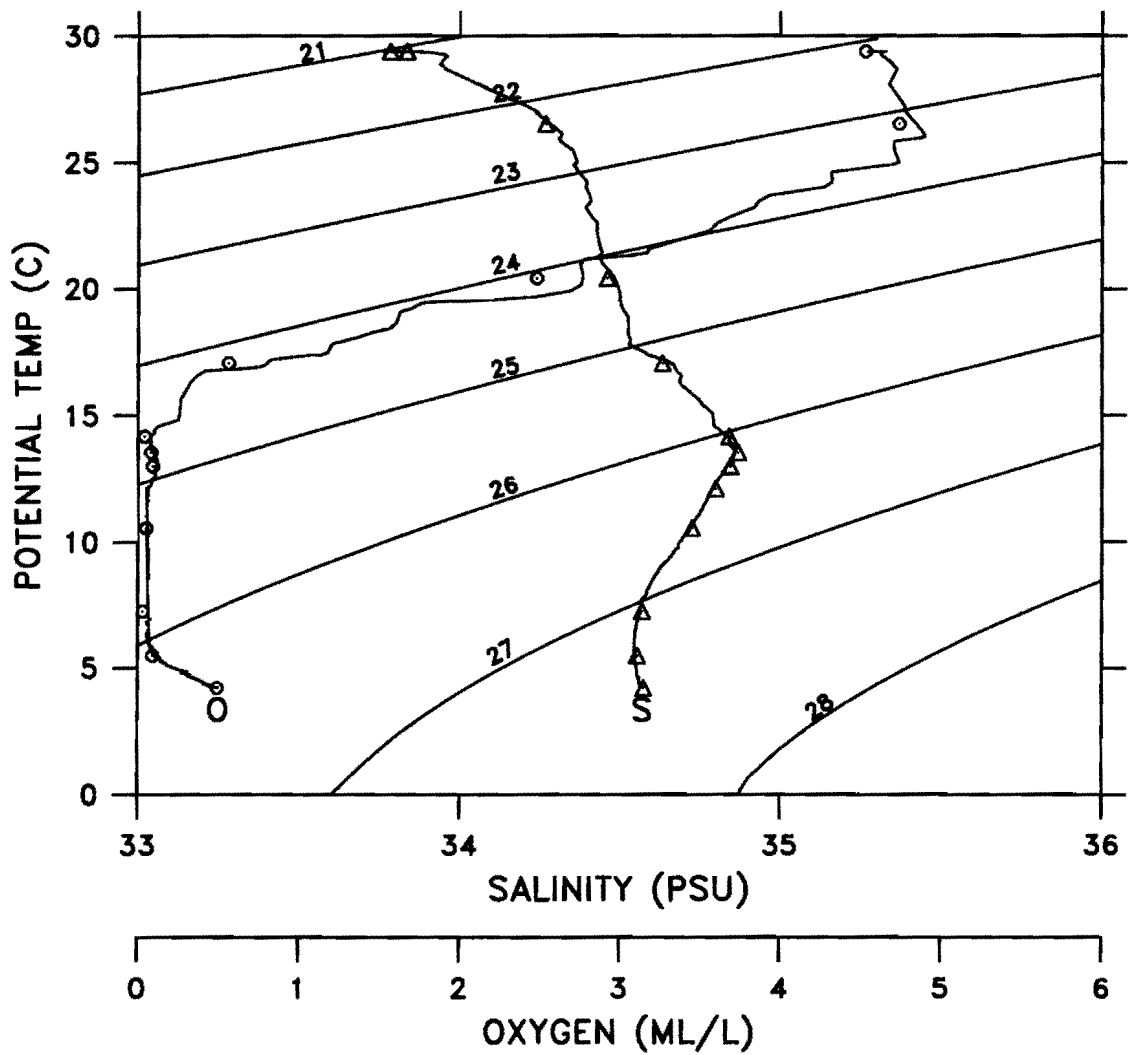


CAST EP2-87-0C -055 DATE 02 NOV 87 TIME 0408 GMT
 LAT 11 00.0N LONG 110 00.5W WEATHER 5 SEA STATE 3
 BAROMETER 15 WIND DIR 095 T SPD 17 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 27.2 WET 26.5 DEPTH 3591 M

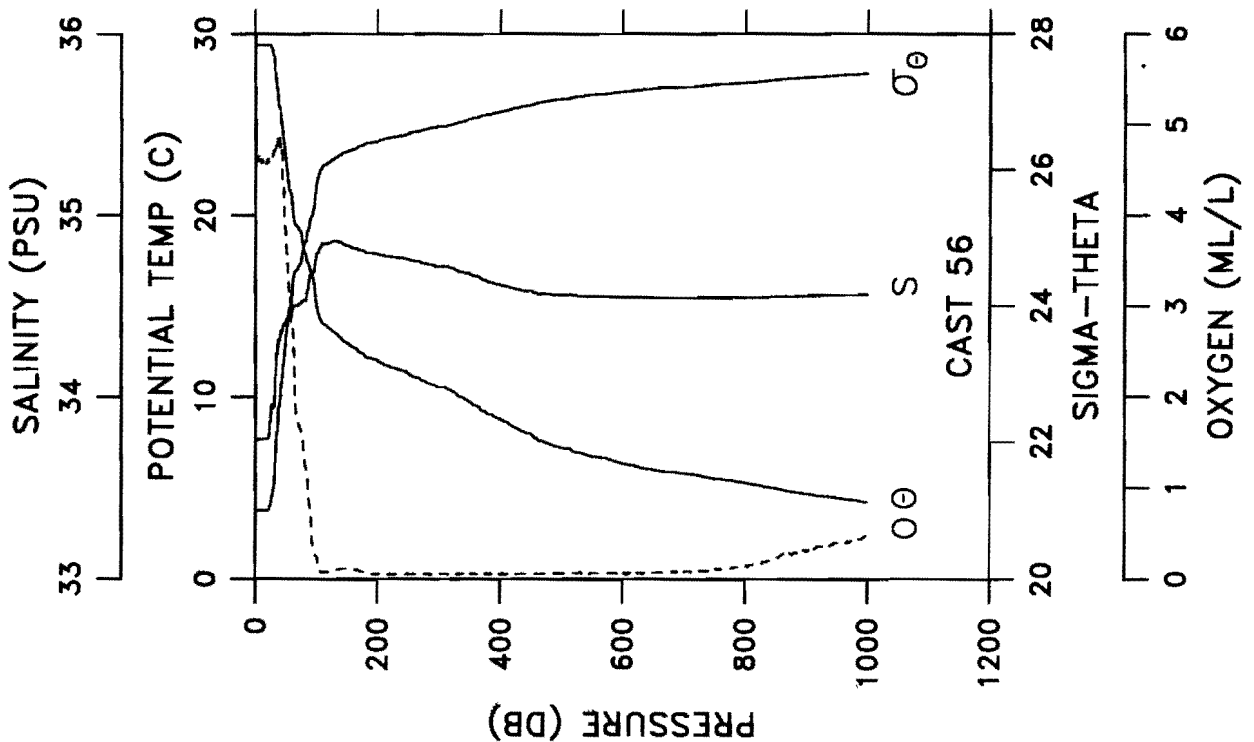


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.156 | 33.775 | 4.45 | 21.095 | 0.000 |
| 10 | 28.147 | 33.780 | 4.56 | 21.102 | 0.067 |
| 20 | 28.156 | 33.787 | 4.50 | 21.104 | 0.134 |
| 30 | 28.961 | 33.833 | 4.26 | 21.204 | 0.200 |
| 40 | 27.516 | 34.072 | 4.78 | 21.856 | 0.262 |
| 50 | 26.115 | 34.198 | 4.56 | 22.395 | 0.318 |
| 60 | 22.339 | 34.452 | 3.42 | 23.708 | 0.368 |
| 70 | 20.030 | 34.511 | 2.86 | 24.382 | 0.406 |
| 80 | 17.594 | 34.613 | 1.35 | 25.075 | 0.439 |
| 90 | 16.479 | 34.680 | 0.61 | 25.392 | 0.467 |
| 100 | 14.784 | 34.765 | 0.24 | 25.839 | 0.491 |
| 110 | 14.148 | 34.772 | 0.09 | 25.980 | 0.512 |
| 120 | 13.668 | 34.788 | 0.11 | 26.093 | 0.532 |
| 130 | 13.373 | 34.793 | 0.14 | 26.158 | 0.551 |
| 140 | 13.040 | 34.795 | 0.14 | 26.227 | 0.570 |
| 150 | 12.811 | 34.798 | 0.12 | 26.275 | 0.588 |
| 160 | 12.650 | 34.799 | 0.07 | 26.307 | 0.605 |
| 170 | 12.529 | 34.795 | 0.09 | 26.328 | 0.623 |
| 180 | 12.267 | 34.786 | 0.13 | 26.372 | 0.640 |
| 190 | 12.034 | 34.779 | 0.15 | 26.411 | 0.656 |
| 200 | 11.861 | 34.773 | 0.16 | 26.440 | 0.673 |
| 250 | 11.112 | 34.737 | 0.19 | 26.551 | 0.752 |
| 300 | 10.435 | 34.710 | 0.14 | 26.650 | 0.827 |
| 350 | 9.959 | 34.686 | 0.06 | 26.714 | 0.898 |
| 400 | 9.400 | 34.651 | 0.06 | 26.781 | 0.966 |
| 450 | 8.746 | 34.613 | 0.06 | 26.856 | 1.031 |
| 500 | 7.900 | 34.573 | 0.06 | 26.954 | 1.093 |
| 550 | 7.142 | 34.562 | 0.05 | 27.054 | 1.150 |
| 600 | 6.749 | 34.556 | 0.05 | 27.104 | 1.203 |
| 650 | 6.331 | 34.553 | 0.07 | 27.157 | 1.254 |
| 700 | 5.981 | 34.550 | 0.09 | 27.200 | 1.303 |
| 750 | 5.585 | 34.551 | 0.23 | 27.250 | 1.350 |
| 800 | 5.302 | 34.552 | 0.32 | 27.285 | 1.395 |
| 900 | 4.789 | 34.556 | 0.52 | 27.348 | 1.480 |
| 1000 | 4.339 | 34.565 | 0.63 | 27.405 | 1.560 |
| 1010 | 4.287 | 34.566 | 0.66 | 27.411 | 1.567 |

CAST EP2-87-OC -056 DATE 02 NOV 87 TIME 0956 GMT
LAT 12 00.7N LONG 110 01.8W

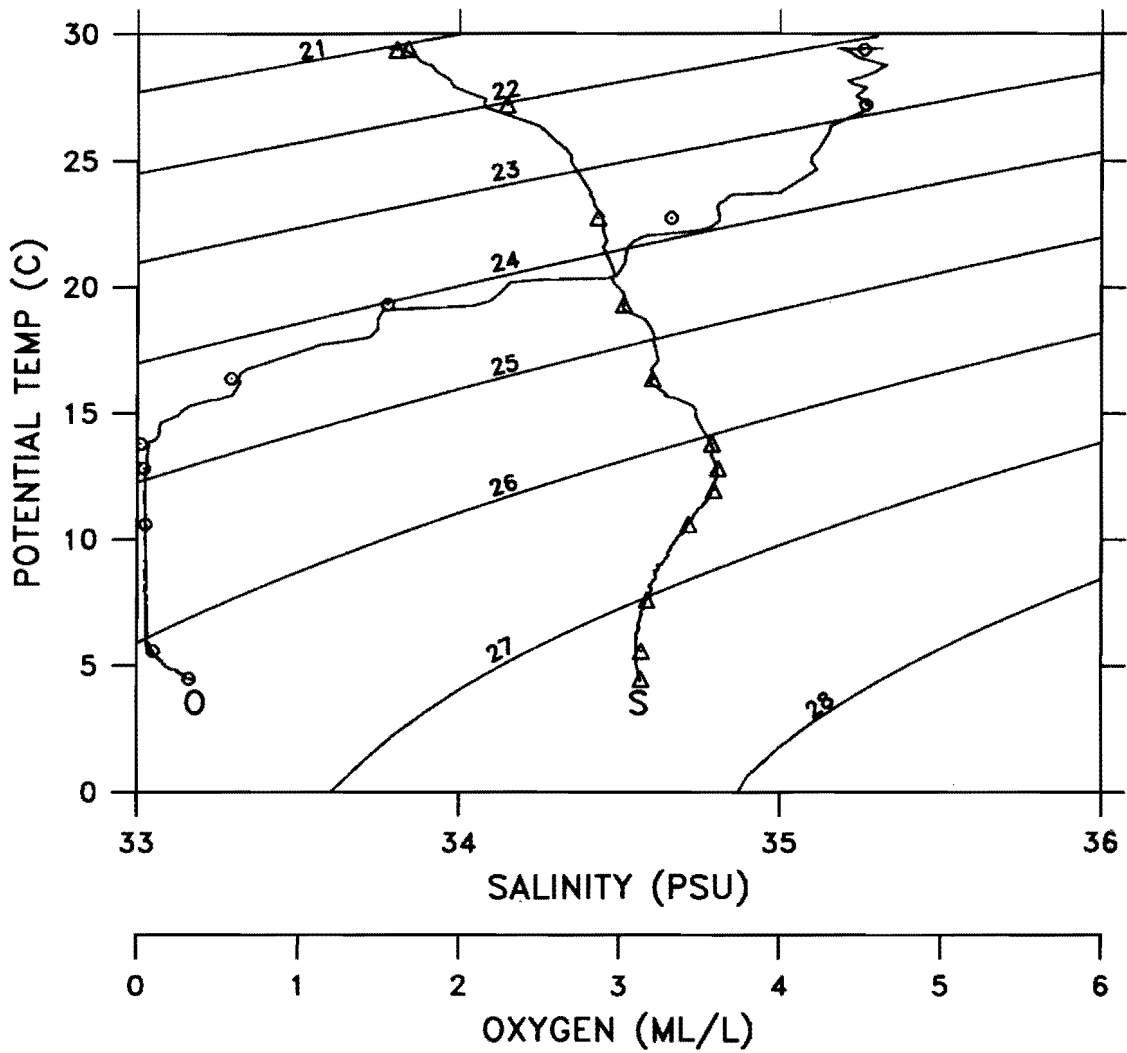


CAST EP2-87-0C -056 DATE 02 NOV 87 TIME 0956 GMT
 LAT 12 00.7N LONG 110 01.8W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 160 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 27.5 WET 26.5 DEPTH 2861 M

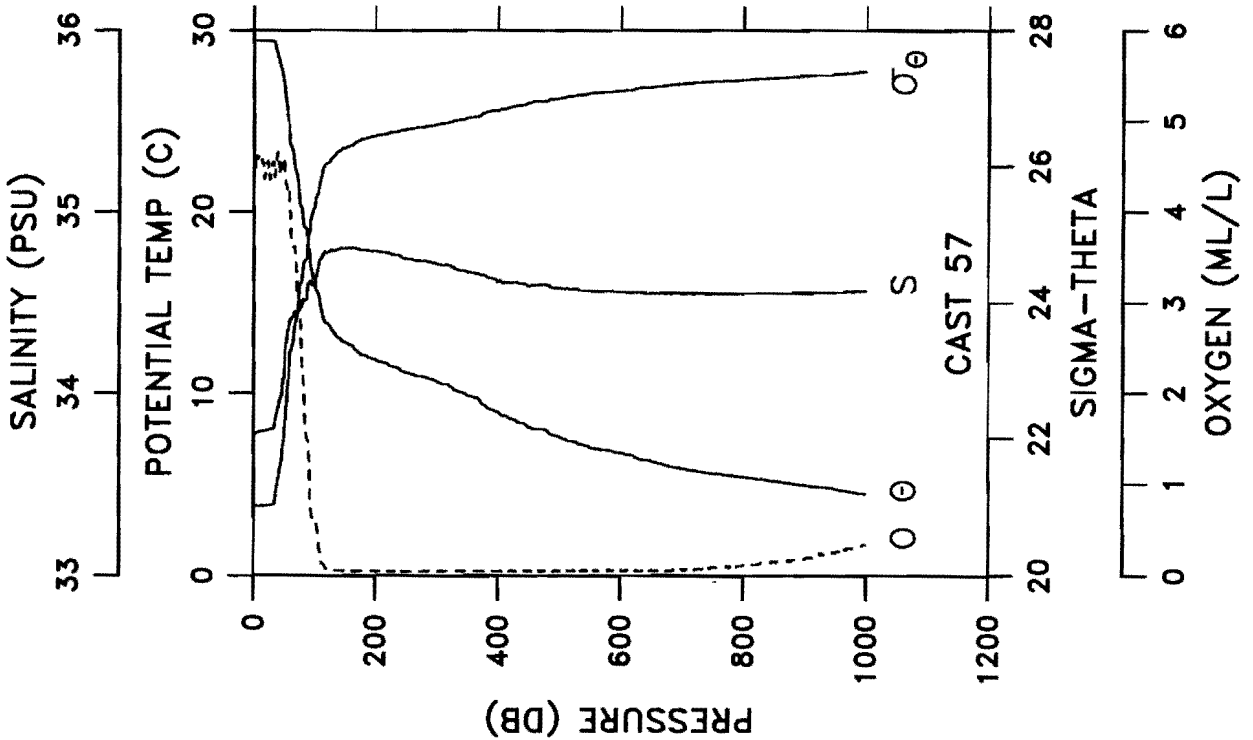


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 29.390 | 33.764 | 4.60 | 21.008 | 0.000 |
| 10 | 29.388 | 33.767 | 4.59 | 21.011 | 0.068 |
| 20 | 29.391 | 33.767 | 4.62 | 21.010 | 0.135 |
| 30 | 28.823 | 33.944 | 4.70 | 21.333 | 0.202 |
| 40 | 25.824 | 34.313 | 4.71 | 22.571 | 0.259 |
| 50 | 22.817 | 34.414 | 3.67 | 23.543 | 0.307 |
| 60 | 20.537 | 34.477 | 2.77 | 24.222 | 0.348 |
| 70 | 19.291 | 34.506 | 1.71 | 24.570 | 0.382 |
| 80 | 17.993 | 34.532 | 1.30 | 24.916 | 0.415 |
| 90 | 16.914 | 34.671 | 0.75 | 25.283 | 0.444 |
| 100 | 15.091 | 34.789 | 0.26 | 25.790 | 0.469 |
| 110 | 14.050 | 34.844 | 0.08 | 26.057 | 0.490 |
| 120 | 13.816 | 34.844 | 0.07 | 26.105 | 0.510 |
| 130 | 13.546 | 34.859 | 0.09 | 26.173 | 0.529 |
| 140 | 13.270 | 34.853 | 0.12 | 26.225 | 0.547 |
| 150 | 12.999 | 34.835 | 0.11 | 26.266 | 0.565 |
| 160 | 12.759 | 34.821 | 0.10 | 26.303 | 0.583 |
| 170 | 12.477 | 34.809 | 0.09 | 26.349 | 0.600 |
| 180 | 12.218 | 34.796 | 0.08 | 26.389 | 0.617 |
| 190 | 12.128 | 34.792 | 0.06 | 26.403 | 0.634 |
| 200 | 12.020 | 34.788 | 0.05 | 26.421 | 0.650 |
| 250 | 11.318 | 34.758 | 0.06 | 26.529 | 0.730 |
| 300 | 10.547 | 34.717 | 0.05 | 26.637 | 0.806 |
| 350 | 9.715 | 34.676 | 0.05 | 26.748 | 0.877 |
| 400 | 8.756 | 34.620 | 0.06 | 26.859 | 0.943 |
| 450 | 7.968 | 34.585 | 0.06 | 26.953 | 1.004 |
| 500 | 7.205 | 34.560 | 0.06 | 27.044 | 1.060 |
| 550 | 6.725 | 34.552 | 0.07 | 27.104 | 1.113 |
| 600 | 6.337 | 34.548 | 0.07 | 27.152 | 1.164 |
| 650 | 5.989 | 34.546 | 0.07 | 27.196 | 1.213 |
| 700 | 5.792 | 34.545 | 0.07 | 27.220 | 1.260 |
| 750 | 5.504 | 34.546 | 0.11 | 27.256 | 1.306 |
| 800 | 5.292 | 34.547 | 0.14 | 27.282 | 1.351 |
| 900 | 4.685 | 34.557 | 0.33 | 27.360 | 1.436 |
| 1000 | 4.238 | 34.565 | 0.48 | 27.415 | 1.514 |
| 1010 | 4.212 | 34.566 | 0.49 | 27.419 | 1.522 |

CAST EP2-87-OC -057 DATE 02 NOV 87 TIME 1607 GMT
LAT 12 59.8N LONG 109 59.9W

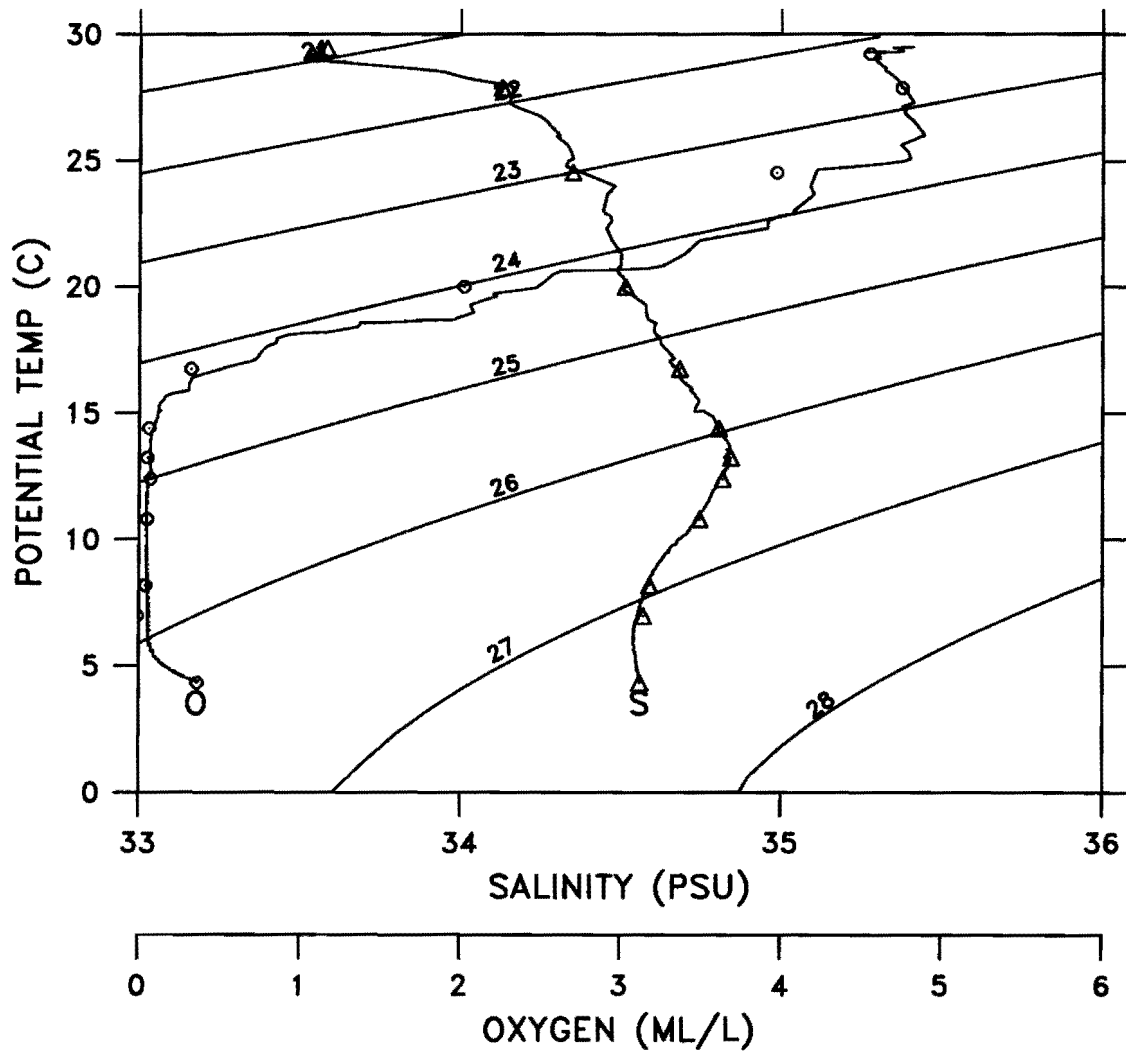


CAST EP2-87-OC -057 DATE 02 NOV 87 TIME 1607 GMT
 LAT 12.59.8N LONG 109.59.9W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 085 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 29.0 WET 26.0 DEPTH 3183 M

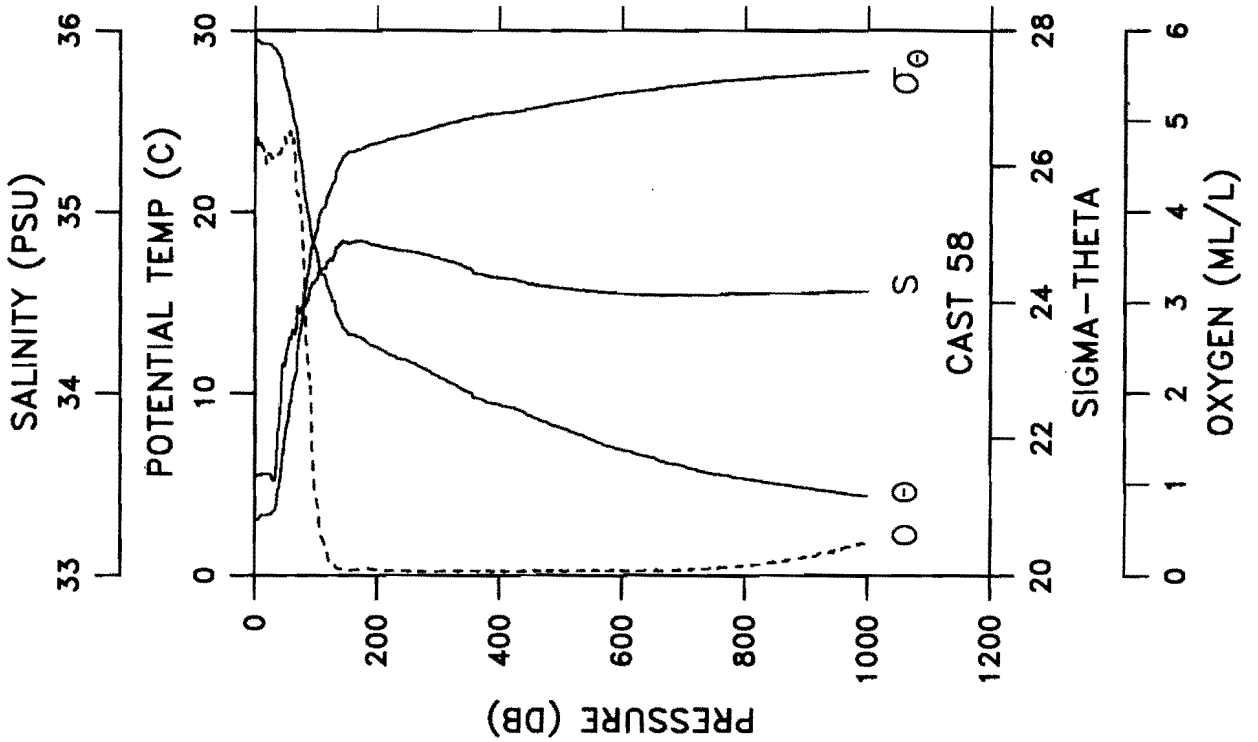


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.415 | 33.781 | 4.58 | 21.012 | 0.000 |
| 10 | 29.414 | 33.789 | 4.60 | 21.019 | 0.068 |
| 20 | 29.411 | 33.796 | 4.48 | 21.025 | 0.135 |
| 30 | 29.405 | 33.805 | 4.53 | 21.034 | 0.203 |
| 40 | 28.511 | 33.924 | 4.59 | 21.421 | 0.269 |
| 50 | 27.077 | 34.081 | 4.56 | 22.004 | 0.330 |
| 60 | 23.711 | 34.409 | 4.00 | 23.281 | 0.382 |
| 70 | 22.127 | 34.450 | 3.33 | 23.766 | 0.426 |
| 80 | 19.781 | 34.511 | 2.25 | 24.447 | 0.465 |
| 90 | 17.990 | 34.608 | 1.44 | 24.976 | 0.498 |
| 100 | 16.233 | 34.592 | 0.64 | 25.381 | 0.525 |
| 110 | 14.766 | 34.741 | 0.20 | 25.824 | 0.549 |
| 120 | 13.850 | 34.778 | 0.07 | 26.047 | 0.569 |
| 130 | 13.426 | 34.785 | 0.07 | 26.141 | 0.589 |
| 140 | 13.046 | 34.795 | 0.06 | 26.225 | 0.608 |
| 150 | 12.816 | 34.799 | 0.05 | 26.274 | 0.625 |
| 160 | 12.670 | 34.800 | 0.05 | 26.304 | 0.643 |
| 170 | 12.319 | 34.797 | 0.05 | 26.371 | 0.660 |
| 180 | 12.114 | 34.789 | 0.05 | 26.404 | 0.677 |
| 190 | 11.972 | 34.786 | 0.05 | 26.429 | 0.694 |
| 200 | 11.878 | 34.785 | 0.05 | 26.446 | 0.710 |
| 250 | 11.147 | 34.743 | 0.05 | 26.549 | 0.789 |
| 300 | 10.637 | 34.714 | 0.05 | 26.619 | 0.865 |
| 350 | 9.875 | 34.689 | 0.05 | 26.715 | 0.937 |
| 400 | 8.963 | 34.618 | 0.06 | 26.825 | 1.004 |
| 450 | 8.113 | 34.591 | 0.06 | 26.936 | 1.066 |
| 500 | 7.613 | 34.581 | 0.06 | 27.002 | 1.125 |
| 550 | 7.008 | 34.570 | 0.06 | 27.079 | 1.180 |
| 600 | 6.722 | 34.559 | 0.05 | 27.110 | 1.233 |
| 650 | 6.270 | 34.553 | 0.05 | 27.165 | 1.283 |
| 700 | 5.838 | 34.551 | 0.07 | 27.219 | 1.331 |
| 750 | 5.582 | 34.550 | 0.09 | 27.250 | 1.378 |
| 800 | 5.397 | 34.551 | 0.12 | 27.273 | 1.423 |
| 900 | 4.943 | 34.554 | 0.18 | 27.328 | 1.510 |
| 1000 | 4.450 | 34.564 | 0.34 | 27.392 | 1.592 |
| 1010 | 4.397 | 34.564 | 0.36 | 27.398 | 1.600 |

CAST EP2-87-OC -058 DATE 02 NOV 87 TIME 2204 GMT
LAT 14 00.2N LONG 110 00.3W

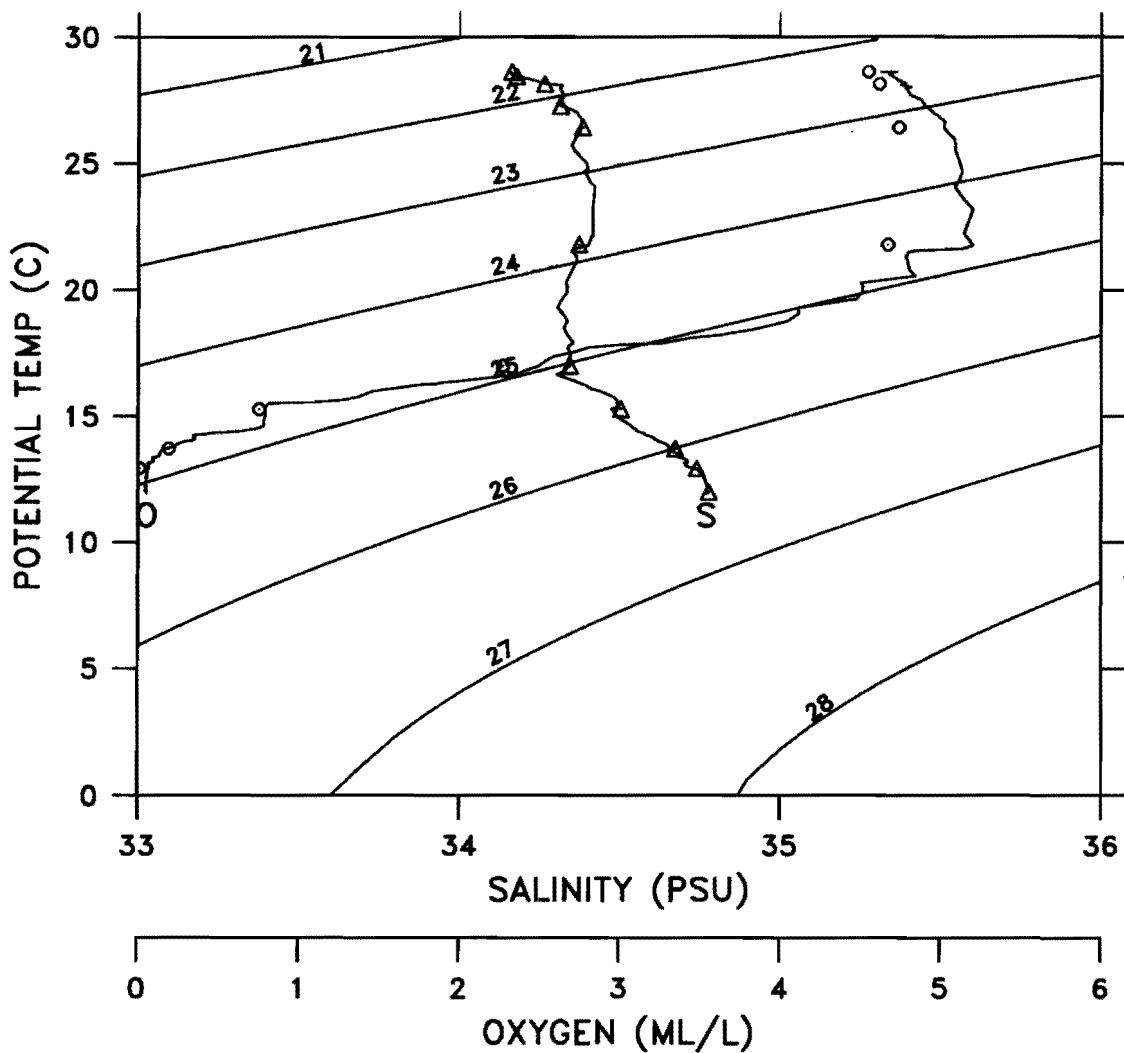


CAST EP2-87-OC -058 DATE 02 NOV 87 TIME 2204 GMT
 LAT 14 00.2N LONG 110 00.3W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 065 T SPD 12 KT VISIBILITY 9
 CLOUD 8 AMOUNT 4 DRY 29.3 WET 27.0 DEPTH 3288 M

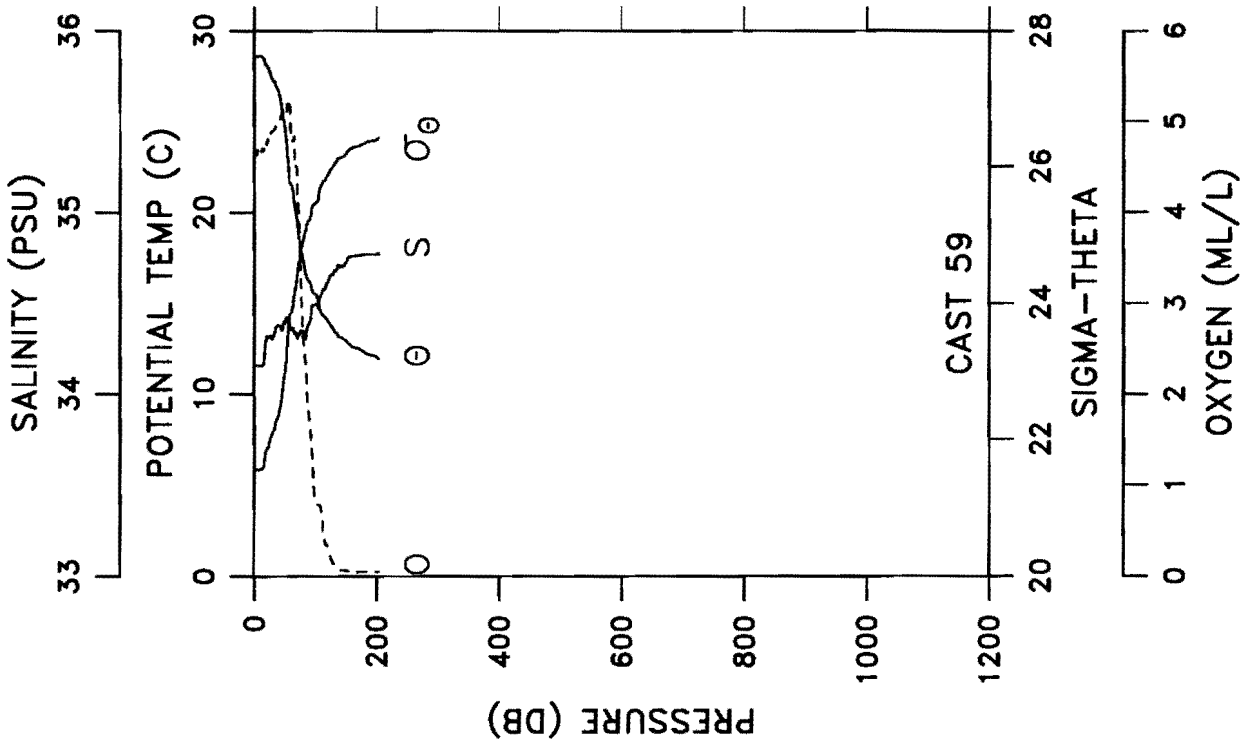


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.484 | 33.547 | 4.81 | 20.814 | 0.000 |
| 10 | 29.315 | 33.564 | 4.75 | 20.876 | 0.069 |
| 20 | 29.279 | 33.559 | 4.64 | 20.892 | 0.138 |
| 30 | 29.073 | 33.521 | 4.61 | 20.932 | 0.207 |
| 40 | 28.665 | 33.824 | 4.65 | 21.295 | 0.274 |
| 50 | 27.147 | 34.165 | 4.75 | 22.044 | 0.335 |
| 60 | 25.792 | 34.315 | 4.80 | 22.583 | 0.390 |
| 70 | 24.000 | 34.480 | 4.18 | 23.250 | 0.440 |
| 80 | 21.307 | 34.500 | 3.40 | 24.031 | 0.483 |
| 90 | 19.294 | 34.576 | 2.06 | 24.623 | 0.520 |
| 100 | 17.846 | 34.624 | 0.85 | 25.023 | 0.551 |
| 110 | 16.577 | 34.683 | 0.41 | 25.372 | 0.579 |
| 120 | 15.759 | 34.727 | 0.19 | 25.594 | 0.604 |
| 130 | 15.082 | 34.759 | 0.13 | 25.769 | 0.627 |
| 140 | 14.001 | 34.821 | 0.07 | 26.049 | 0.648 |
| 150 | 13.423 | 34.834 | 0.07 | 26.179 | 0.668 |
| 160 | 13.240 | 34.832 | 0.06 | 26.215 | 0.686 |
| 170 | 13.117 | 34.837 | 0.06 | 26.244 | 0.704 |
| 180 | 12.918 | 34.834 | 0.07 | 26.281 | 0.722 |
| 190 | 12.665 | 34.819 | 0.07 | 26.320 | 0.740 |
| 200 | 12.556 | 34.817 | 0.06 | 26.339 | 0.757 |
| 250 | 11.838 | 34.782 | 0.05 | 26.451 | 0.841 |
| 300 | 10.932 | 34.748 | 0.05 | 26.592 | 0.919 |
| 350 | 10.038 | 34.689 | 0.05 | 26.703 | 0.992 |
| 400 | 9.363 | 34.636 | 0.04 | 26.775 | 1.061 |
| 450 | 8.759 | 34.603 | 0.05 | 26.846 | 1.127 |
| 500 | 8.114 | 34.580 | 0.05 | 26.927 | 1.189 |
| 550 | 7.451 | 34.562 | 0.05 | 27.010 | 1.248 |
| 600 | 6.897 | 34.552 | 0.07 | 27.080 | 1.303 |
| 650 | 6.478 | 34.542 | 0.06 | 27.129 | 1.355 |
| 700 | 5.997 | 34.541 | 0.06 | 27.191 | 1.405 |
| 750 | 5.560 | 34.544 | 0.07 | 27.247 | 1.452 |
| 800 | 5.303 | 34.548 | 0.11 | 27.281 | 1.497 |
| 900 | 4.810 | 34.553 | 0.21 | 27.343 | 1.583 |
| 1000 | 4.382 | 34.562 | 0.35 | 27.397 | 1.663 |
| 1010 | 4.367 | 34.563 | 0.35 | 27.400 | 1.670 |

CAST EP2-87-OC -059 DATE 03 NOV 87 TIME 0341 GMT
LAT 15 00.5N LONG 109 59.4W

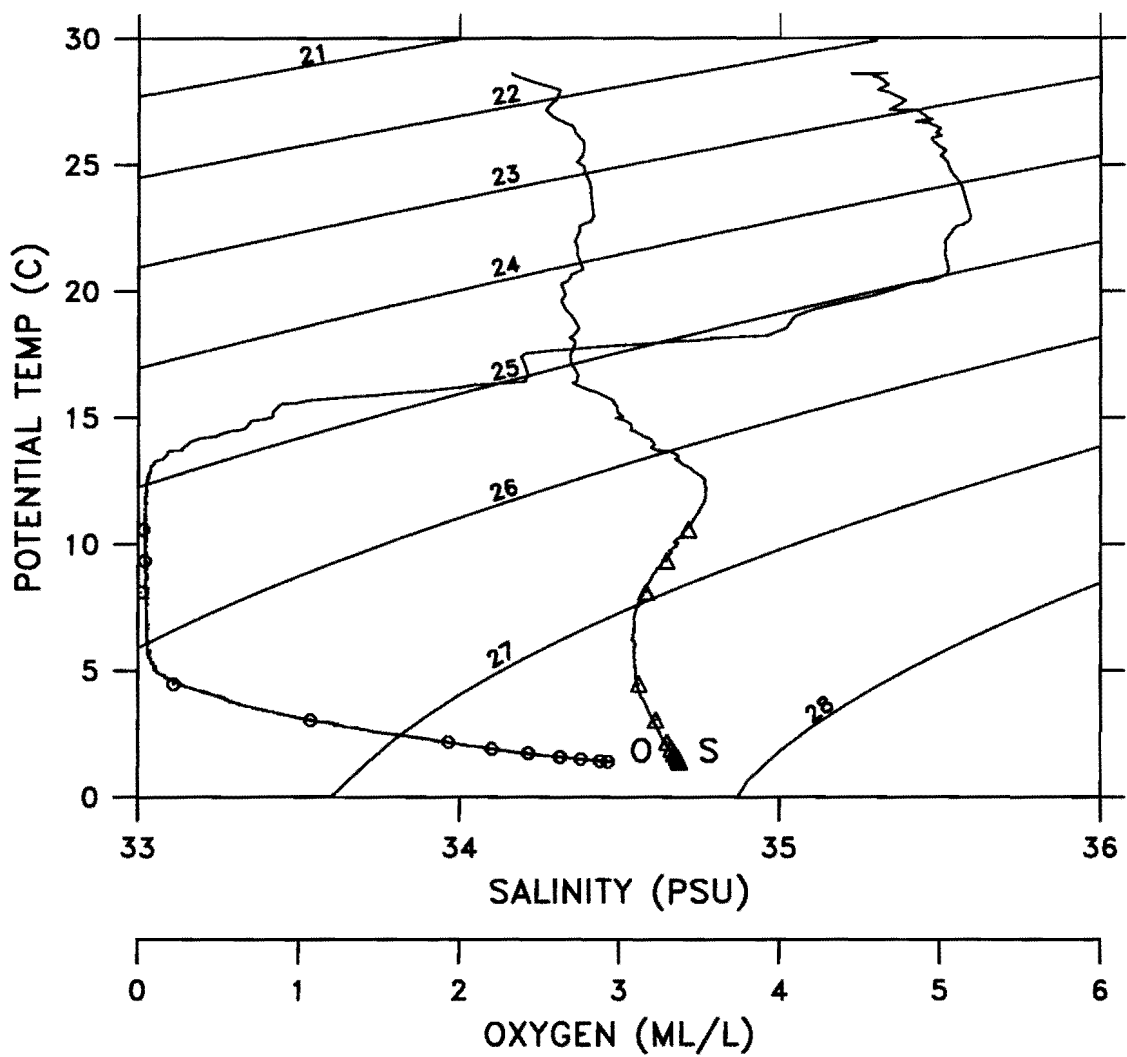


CAST EP2-87-0C -059 DATE 03 NOV 87 TIME 0341 GMT
 LAT 15 00.5N LONG 109 59.4W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 080 T SPD 10 KT VISIBILITY 7
 CLOUD X AMOUNT 6 DRY 28.2 WET 26.0 DEPTH 3712 M

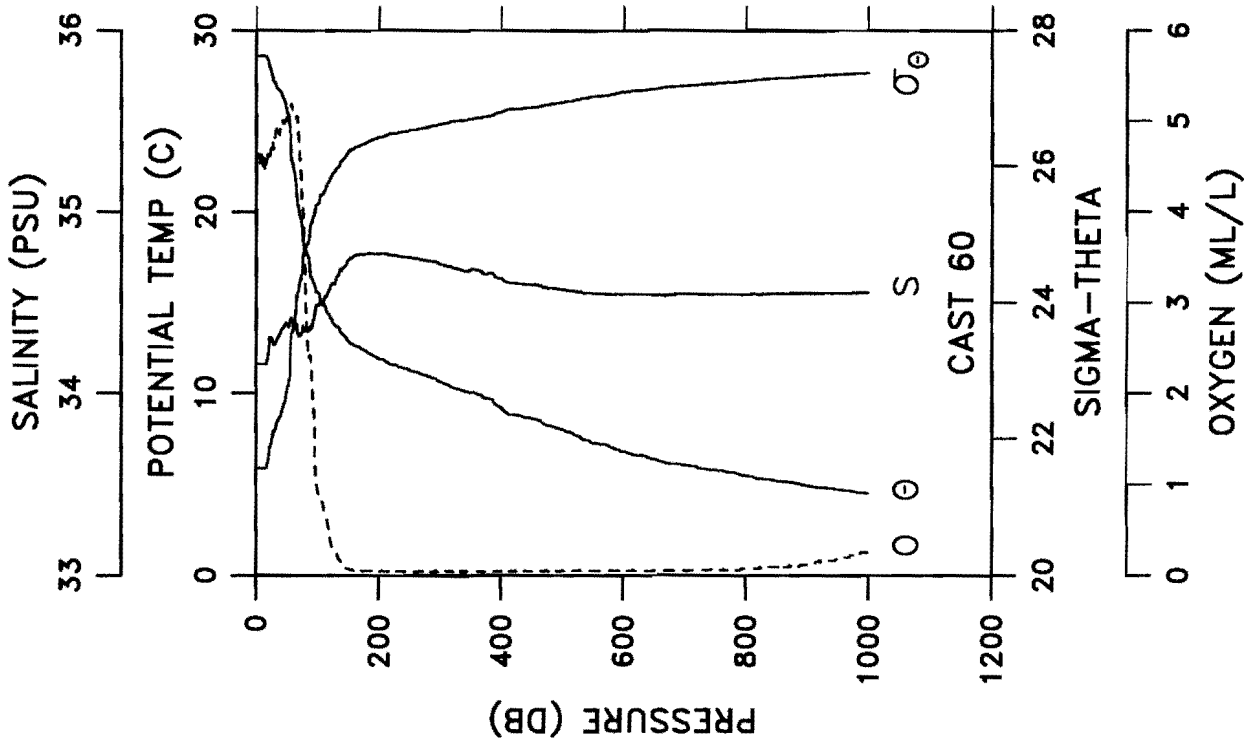


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.617 | 34.158 | 4.66 | 21.561 | 0.000 |
| 10 | 28.619 | 34.158 | 4.69 | 21.560 | 0.062 |
| 20 | 28.099 | 34.319 | 4.75 | 21.853 | 0.124 |
| 30 | 27.312 | 34.311 | 4.89 | 22.101 | 0.182 |
| 40 | 26.649 | 34.379 | 5.02 | 22.363 | 0.238 |
| 50 | 24.686 | 34.389 | 5.13 | 22.976 | 0.290 |
| 60 | 21.522 | 34.353 | 4.83 | 23.860 | 0.334 |
| 70 | 19.280 | 34.305 | 4.11 | 24.419 | 0.372 |
| 80 | 17.343 | 34.346 | 2.58 | 24.931 | 0.405 |
| 90 | 16.233 | 34.391 | 1.73 | 25.226 | 0.433 |
| 100 | 15.504 | 34.495 | 0.83 | 25.471 | 0.460 |
| 110 | 14.453 | 34.551 | 0.67 | 25.745 | 0.484 |
| 120 | 14.028 | 34.620 | 0.33 | 25.889 | 0.506 |
| 130 | 13.567 | 34.671 | 0.14 | 26.023 | 0.526 |
| 140 | 13.153 | 34.701 | 0.07 | 26.131 | 0.546 |
| 150 | 12.959 | 34.725 | 0.06 | 26.189 | 0.565 |
| 160 | 12.626 | 34.761 | 0.06 | 26.282 | 0.583 |
| 170 | 12.526 | 34.765 | 0.05 | 26.305 | 0.601 |
| 180 | 12.332 | 34.770 | 0.05 | 26.347 | 0.618 |
| 190 | 12.166 | 34.771 | 0.05 | 26.380 | 0.635 |
| 200 | 12.049 | 34.773 | 0.04 | 26.404 | 0.652 |
| 204 | 11.928 | 34.769 | 0.05 | 26.424 | 0.658 |

CAST EP2-87-OC -060 DATE 03 NOV 87 TIME 0558 GMT
LAT 15 02.2N LONG 109 58.9W



CAST EP2-87-0C -060 DATE 03 NOV 87 TIME 0558 GMT
 LAT 15 02.2N LONG 109 58.9W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 095 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 28.2 WET 25.8 DEPTH 3308 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 28.605 | 34.162 | 4.58 | 21.569 | 0.000 |
| 10 | 28.605 | 34.162 | 4.67 | 21.568 | 0.062 |
| 20 | 28.301 | 34.221 | 4.65 | 21.712 | 0.124 |
| 30 | 27.165 | 34.269 | 4.77 | 22.117 | 0.183 |
| 40 | 26.643 | 34.330 | 4.93 | 22.328 | 0.239 |
| 50 | 25.558 | 34.388 | 5.04 | 22.710 | 0.292 |
| 60 | 22.581 | 34.374 | 5.10 | 23.580 | 0.340 |
| 70 | 20.060 | 34.323 | 4.71 | 24.231 | 0.380 |
| 80 | 17.960 | 34.360 | 3.24 | 24.793 | 0.414 |
| 90 | 16.377 | 34.353 | 2.29 | 25.164 | 0.445 |
| 100 | 15.555 | 34.482 | 0.93 | 25.451 | 0.472 |
| 110 | 14.902 | 34.509 | 0.74 | 25.616 | 0.496 |
| 120 | 14.261 | 34.573 | 0.49 | 25.803 | 0.519 |
| 130 | 13.689 | 34.628 | 0.27 | 25.965 | 0.541 |
| 140 | 13.267 | 34.688 | 0.10 | 26.098 | 0.561 |
| 150 | 12.888 | 34.750 | 0.08 | 26.207 | 0.580 |
| 160 | 12.655 | 34.759 | 0.06 | 26.276 | 0.598 |
| 170 | 12.508 | 34.767 | 0.06 | 26.310 | 0.615 |
| 180 | 12.294 | 34.768 | 0.05 | 26.353 | 0.633 |
| 190 | 12.108 | 34.771 | 0.05 | 26.391 | 0.650 |
| 200 | 11.914 | 34.769 | 0.05 | 26.427 | 0.666 |
| 250 | 11.266 | 34.748 | 0.05 | 26.531 | 0.746 |
| 300 | 10.643 | 34.712 | 0.04 | 26.615 | 0.823 |
| 350 | 10.051 | 34.681 | 0.04 | 26.695 | 0.895 |
| 400 | 9.223 | 34.633 | 0.04 | 26.795 | 0.964 |
| 450 | 8.630 | 34.600 | 0.05 | 26.864 | 1.028 |
| 500 | 8.020 | 34.572 | 0.05 | 26.935 | 1.090 |
| 550 | 7.258 | 34.550 | 0.05 | 27.028 | 1.148 |
| 600 | 6.808 | 34.546 | 0.05 | 27.087 | 1.203 |
| 650 | 6.388 | 34.541 | 0.06 | 27.140 | 1.255 |
| 700 | 6.063 | 34.549 | 0.06 | 27.188 | 1.304 |
| 750 | 5.808 | 34.546 | 0.06 | 27.218 | 1.352 |
| 800 | 5.482 | 34.545 | 0.08 | 27.257 | 1.399 |
| 900 | 4.919 | 34.551 | 0.11 | 27.329 | 1.486 |
| 1000 | 4.498 | 34.556 | 0.25 | 27.380 | 1.569 |
| 1500 | 3.057 | 34.605 | 1.05 | 27.564 | 1.921 |
| 2000 | 2.138 | 34.644 | 1.93 | 27.676 | 2.205 |
| 2500 | 1.707 | 34.666 | 2.43 | 27.727 | 2.451 |
| 3000 | 1.485 | 34.678 | 2.77 | 27.753 | 2.682 |
| 3347 | 1.398 | 34.682 | 2.94 | 27.762 | 2.841 |

CAST EP2-87-OC -001 LAT 02 01.1N LONG 140 02.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 29.039 | 34.812 | 1.79 | 29.039 | 21.912 |
| 14. | 28.909 | 34.808 | 1.82 | 28.906 | 21.954 |
| 20. | 28.899 | 34.807 | 1.83 | 28.894 | 21.957 |
| 30. | 28.893 | 34.810 | 1.83 | 28.886 | 21.962 |
| 38. | 28.891 | 34.813 | 1.84 | 28.882 | 21.965 |
| 60. | 28.790 | 34.850 | 1.84 | 28.776 | 22.029 |
| 77. | 28.233 | 34.940 | 1.90 | 28.215 | 22.281 |
| 98. | 24.407 | 34.853 | 1.56 | 24.386 | 23.417 |
| 125. | 18.176 | 34.784 | 1.04 | 18.154 | 25.070 |
| 147. | 14.117 | 34.915 | 0.60 | 14.096 | 26.102 |
| 199. | 13.050 | 34.906 | 0.47 | 13.023 | 26.316 |
| 250. | 12.497 | 34.869 | 0.30 | 12.463 | 26.398 |

CAST EP2-87-OC -002 LAT 02 00.2N LONG 140 04.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 296. | 11.300 | 34.800 | 0.26 | 11.263 | 26.572 |
| 394. | 9.279 | 34.674 | 0.19 | 9.235 | 26.825 |
| 496. | 7.592 | 34.602 | 0.34 | 7.543 | 27.029 |
| 997. | 4.579 | 34.558 | 0.72 | 4.499 | 27.381 |
| 1493. | 2.993 | 34.609 | 0.82 | 2.886 | 27.583 |
| 1988. | 2.254 | 34.644 | 0.97 | 2.115 | 27.677 |
| 2494. | 1.837 | 34.667 | 1.16 | 1.660 | 27.731 |
| 2994. | 1.700 | 34.674 | 1.28 | 1.479 | 27.750 |
| 3508. | 1.495 | 34.689 | 1.44 | 1.228 | 27.780 |
| 3749. | 1.424 | 34.693 | 1.55 | 1.134 | 27.790 |
| 4000. | 1.421 | 34.688 | 1.60 | 1.104 | 27.788 |
| 4403. | 1.410 | 34.696 | 1.65 | 1.049 | 27.798 |

CAST EP2-87-OC -003 LAT 01 30.0N LONG 140 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.616 | 34.843 | 2.01 | 28.616 | 22.076 |
| 0. | 28.619 | 34.843 | 1.98 | 28.619 | 22.075 |
| 95. | 23.622 | 34.797 | 1.43 | 23.602 | 23.606 |
| 247. | 12.450 | 34.867 | 0.33 | 12.417 | 26.406 |
| 495. | 7.682 | 34.600 | 0.66 | 7.632 | 27.014 |
| 497. | 7.676 | 34.600 | 0.53 | 7.626 | 27.015 |
| 596. | 6.577 | 34.569 | 0.59 | 6.522 | 27.144 |
| 694. | 6.145 | 34.562 | 0.60 | 6.083 | 27.196 |
| 795. | 5.637 | 34.548 | 0.76 | 5.568 | 27.250 |
| 895. | 4.883 | 34.552 | 0.79 | 4.810 | 27.342 |
| 1008. | 4.502 | 34.559 | 0.96 | 4.422 | 27.391 |
| 1010. | 4.502 | 34.559 | 0.78 | 4.422 | 27.391 |

CAST EP2-87-OC -004 LAT 00 59.6N LONG 140 00.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.030 | 34.746 | 1.77 | 28.030 | 22.196 |
| 18. | 28.037 | 34.746 | 1.85 | 28.033 | 22.195 |
| 37. | 27.436 | 34.778 | 1.79 | 27.427 | 22.416 |
| 59. | 25.210 | 34.768 | 1.61 | 25.197 | 23.108 |
| 78. | 23.372 | 34.909 | 1.25 | 23.356 | 23.763 |
| 99. | 19.520 | 34.886 | 1.21 | 19.502 | 24.806 |
| 149. | 14.291 | 34.814 | 0.83 | 14.269 | 25.987 |
| 199. | 12.792 | 34.891 | 0.46 | 12.765 | 26.356 |
| 296. | 11.821 | 34.828 | 0.43 | 11.783 | 26.497 |
| 496. | 7.143 | 34.588 | 0.54 | 7.095 | 27.081 |
| 746. | 5.809 | 34.556 | 0.67 | 5.744 | 27.234 |
| 1033. | 4.426 | 34.562 | 0.78 | 4.344 | 27.401 |

CAST EP2-87-OC -005 LAT 00 29.6N LONG 140 00.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 27.799 | 34.770 | 2.04 | 27.799 | 22.289 |
| 0. | 27.795 | 34.770 | 2.04 | 27.795 | 22.291 |
| 97. | 19.962 | 35.013 | 1.26 | 19.944 | 24.788 |
| 252. | 12.442 | 34.888 | 0.64 | 12.408 | 26.424 |
| 497. | 7.413 | 34.600 | 0.51 | 7.364 | 27.053 |
| 498. | 7.411 | 34.600 | 0.51 | 7.362 | 27.053 |
| 595. | 6.745 | 34.577 | 0.59 | 6.689 | 27.128 |
| 694. | 5.943 | 34.561 | 0.64 | 5.882 | 27.221 |
| 795. | 5.606 | 34.556 | 0.71 | 5.537 | 27.260 |
| 897. | 4.978 | 34.553 | 0.80 | 4.904 | 27.332 |
| 1036. | 4.336 | 34.564 | 0.92 | 4.255 | 27.413 |
| 1030. | 4.355 | 34.566 | 0.80 | 4.274 | 27.412 |

CAST EP2-87-OC -006 LAT 00 00.3N LONG 139 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 27.378 | 34.833 | 1.82 | 27.378 | 22.473 |
| 25. | 26.824 | 34.858 | 1.79 | 26.818 | 22.671 |
| 59. | 25.004 | 35.076 | 1.39 | 24.991 | 23.403 |
| 80. | 22.885 | 35.303 | 1.29 | 22.869 | 24.203 |
| 88. | 22.165 | 35.255 | 1.24 | 22.148 | 24.372 |
| 100. | 21.583 | 35.199 | 1.25 | 21.564 | 24.492 |
| 109. | 20.019 | 35.256 | 1.27 | 19.999 | 24.959 |
| 119. | 19.419 | 35.316 | 1.28 | 19.397 | 25.162 |
| 129. | 18.344 | 35.144 | 1.29 | 18.322 | 25.304 |
| 139. | 17.194 | 35.085 | 1.22 | 17.171 | 25.540 |
| 170. | 13.960 | 34.936 | 1.10 | 13.936 | 26.152 |
| 205. | 12.956 | 34.920 | 0.89 | 12.928 | 26.346 |

CAST EP2-87-OC -008 LAT 00 01.1N LONG 139 56.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 27.386 | 34.833 | 1.76 | 27.386 | 22.470 |
| 14. | 27.081 | 34.839 | 1.79 | 27.078 | 22.574 |
| 19. | 26.966 | 34.844 | 1.78 | 26.962 | 22.615 |
| 31. | 26.586 | 34.885 | 1.75 | 26.579 | 22.767 |
| 40. | 26.191 | 34.919 | 1.65 | 26.182 | 22.917 |
| 59. | 25.161 | 35.044 | 1.50 | 25.148 | 23.331 |
| 79. | 22.842 | 35.305 | 1.31 | 22.826 | 24.217 |
| 99. | 21.487 | 35.164 | 1.28 | 21.468 | 24.492 |
| 121. | 19.226 | 35.295 | 1.30 | 19.204 | 25.195 |
| 148. | 16.253 | 35.011 | 1.25 | 16.229 | 25.704 |
| 197. | 12.935 | 34.908 | 0.95 | 12.908 | 26.341 |
| 254. | 12.506 | 34.892 | 0.65 | 12.472 | 26.415 |

CAST EP2-87-OC -011 LAT 00 29.4S LONG 140 00.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.589 | 34.965 | 1.95 | 26.589 | 22.824 |
| 0. | 26.591 | 34.965 | 1.95 | 26.591 | 22.823 |
| 98. | 22.888 | 35.550 | 1.32 | 22.868 | 24.390 |
| 248. | 12.538 | 34.895 | 0.73 | 12.505 | 26.410 |
| 496. | 8.113 | 34.632 | 0.39 | 8.062 | 26.976 |
| 497. | 8.113 | 34.632 | 0.39 | 8.062 | 26.976 |
| 596. | 6.807 | 34.577 | 0.61 | 6.751 | 27.120 |
| 696. | 6.193 | 34.563 | 0.63 | 6.130 | 27.191 |
| 797. | 5.605 | 34.553 | 0.71 | 5.536 | 27.257 |
| 894. | 4.958 | 34.551 | 0.82 | 4.884 | 27.333 |
| 1005. | 4.380 | 34.562 | 0.79 | 4.301 | 27.406 |
| 1005. | 4.381 | 34.563 | 0.79 | 4.302 | 27.407 |

CAST EP2-87-OC -009 LAT 00 00.5N LONG 140 01.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 297. | 11.372 | 34.808 | 0.28 | 11.335 | 26.565 |
| 397. | 9.144 | 34.689 | 0.20 | 9.100 | 26.859 |
| 497. | 7.819 | 34.620 | 0.41 | 7.769 | 27.010 |
| 995. | 4.721 | 34.557 | 0.73 | 4.640 | 27.365 |
| 1493. | 3.068 | 34.608 | 0.84 | 2.960 | 27.576 |
| 1991. | 2.266 | 34.647 | 0.98 | 2.126 | 27.679 |
| 2493. | 1.843 | 34.670 | 1.16 | 1.666 | 27.733 |
| 2997. | 1.689 | 34.679 | 1.29 | 1.468 | 27.755 |
| 3496. | 1.534 | 34.689 | 1.42 | 1.267 | 27.777 |
| 3749. | 1.419 | 34.697 | 1.53 | 1.129 | 27.793 |
| 3998. | 1.395 | 34.699 | 1.60 | 1.079 | 27.798 |
| 4339. | 1.417 | 34.699 | 1.64 | 1.063 | 27.799 |

CAST EP2-87-OC -012 LAT 01 00.2S LONG 139 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.611 | 34.959 | 1.76 | 26.611 | 22.813 |
| 20. | 26.594 | 34.959 | 1.80 | 26.589 | 22.819 |
| 38. | 26.497 | 34.959 | 1.75 | 26.488 | 22.851 |
| 58. | 26.357 | 35.012 | 1.82 | 26.344 | 22.937 |
| 78. | 26.243 | 35.123 | 1.82 | 26.225 | 23.058 |
| 97. | 26.117 | 35.479 | 1.70 | 26.095 | 23.367 |
| 146. | 15.803 | 35.170 | 1.07 | 15.780 | 25.929 |
| 197. | 13.206 | 34.962 | 0.53 | 13.179 | 26.328 |
| 296. | 12.198 | 34.869 | 0.41 | 12.159 | 26.457 |
| 498. | 8.269 | 34.642 | 0.37 | 8.217 | 26.960 |
| 745. | 5.975 | 34.557 | 0.67 | 5.909 | 27.214 |
| 1007. | 4.448 | 34.559 | 0.79 | 4.368 | 27.396 |

CAST EP2-87-OC -010 LAT 00 02.1S LONG 139 57.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.840 | 34.894 | 1.80 | 26.840 | 22.691 |
| 25. | 26.510 | 34.910 | 1.76 | 26.504 | 22.809 |
| 58. | 25.271 | 35.057 | 1.47 | 25.258 | 23.307 |
| 78. | 23.846 | 35.376 | 1.33 | 23.830 | 23.978 |
| 87. | 22.607 | 35.358 | 1.23 | 22.590 | 24.325 |
| 99. | 21.685 | 35.301 | 1.22 | 21.666 | 24.541 |
| 109. | 21.440 | 35.428 | 1.28 | 21.419 | 24.706 |
| 119. | 20.072 | 35.261 | 1.27 | 20.050 | 24.949 |
| 128. | 19.209 | 35.140 | 1.34 | 19.186 | 25.082 |
| 139. | 18.049 | 35.174 | 1.29 | 18.025 | 25.400 |
| 170. | 14.575 | 34.931 | 1.18 | 14.550 | 26.017 |
| 196. | 12.968 | 34.899 | 0.97 | 12.941 | 26.327 |

CAST EP2-87-OC -013 LAT 01 30.0S LONG 139 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.881 | 35.031 | 1.92 | 26.881 | 22.781 |
| 0. | 26.881 | 35.031 | 1.92 | 26.881 | 22.781 |
| 93. | 25.298 | 35.586 | 1.69 | 25.278 | 23.701 |
| 248. | 12.332 | 34.885 | 0.16 | 12.299 | 26.443 |
| 496. | 8.105 | 34.631 | 0.65 | 8.054 | 26.976 |
| 497. | 8.097 | 34.631 | 0.65 | 8.046 | 26.977 |
| 598. | 6.636 | 34.568 | 0.77 | 6.580 | 27.136 |
| 696. | 6.045 | 34.555 | 0.79 | 5.983 | 27.203 |
| 794. | 5.376 | 34.546 | 0.86 | 5.309 | 27.279 |
| 896. | 4.912 | 34.550 | 0.90 | 4.839 | 27.337 |
| 1006. | 4.520 | 34.557 | 0.85 | 4.440 | 27.387 |
| 1008. | 4.519 | 34.557 | 0.86 | 4.439 | 27.387 |

CAST EP2-87-OC -014 LAT 02 00.1S LONG 139 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 296. | 12.126 | 34.872 | 0.16 | 12.087 | 26.474 |
| 395. | 10.114 | 34.762 | 0.08 | 10.067 | 26.755 |
| 499. | 8.364 | 34.653 | 0.37 | 8.311 | 26.955 |
| 1001. | 4.547 | 34.555 | 0.79 | 4.467 | 27.383 |
| 1497. | 2.990 | 34.611 | 0.87 | 2.882 | 27.585 |
| 1995. | 2.261 | 34.649 | 0.98 | 2.121 | 27.681 |
| 2496. | 1.844 | 34.667 | 1.20 | 1.667 | 27.731 |
| 2996. | 1.652 | 34.678 | 1.35 | 1.432 | 27.757 |
| 3495. | 1.501 | 34.690 | 1.48 | 1.235 | 27.780 |
| 3746. | 1.417 | 34.698 | 1.56 | 1.127 | 27.794 |
| 4000. | 1.405 | 34.698 | 1.61 | 1.089 | 27.797 |
| 4353. | 1.390 | 34.702 | 1.71 | 1.035 | 27.804 |

CAST EP2-87-OC -015 LAT 02 00.2S LONG 139 57.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 27.093 | 35.037 | 1.81 | 27.093 | 22.718 |
| 15. | 27.069 | 35.035 | 1.82 | 27.066 | 22.725 |
| 19. | 27.014 | 35.035 | 1.84 | 27.010 | 22.743 |
| 29. | 27.001 | 35.036 | 1.85 | 26.994 | 22.749 |
| 38. | 26.992 | 35.036 | 1.87 | 26.983 | 22.752 |
| 59. | 27.001 | 35.058 | 1.96 | 26.987 | 22.768 |
| 76. | 27.359 | 35.428 | 1.98 | 27.341 | 22.933 |
| 97. | 26.043 | 35.510 | 1.74 | 26.021 | 23.413 |
| 123. | 18.539 | 35.411 | 0.93 | 18.517 | 25.459 |
| 149. | 14.529 | 35.060 | 0.44 | 14.507 | 26.126 |
| 198. | 12.982 | 34.922 | 0.32 | 12.955 | 26.342 |
| 250. | 12.450 | 34.889 | 0.19 | 12.417 | 26.423 |

CAST EP2-87-OC -016 LAT 00 00.3S LONG 135 02.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 298. | 11.321 | 34.827 | 0.25 | 11.284 | 26.590 |
| 398. | 8.829 | 34.673* | 0.25 | 8.786* | 26.896* |
| 499. | 7.396 | 34.602 | 0.47 | 7.347 | 27.057 |
| 996. | 4.318 | 34.569 | 0.74 | 4.240 | 27.418 |
| 1494. | 3.016 | 34.612 | 0.84 | 2.908 | 27.584 |
| 1994. | 2.316 | 34.647 | 0.98 | 2.175 | 27.675 |
| 2496. | 1.907 | 34.668 | 1.15 | 1.729 | 27.727 |
| 2997. | 1.700 | 34.680 | 1.28 | 1.479 | 27.755 |
| 3490. | 1.552 | 34.691 | 1.42 | 1.285 | 27.778 |
| 3748. | 1.433 | 34.698 | 1.55 | 1.143 | 27.793 |
| 3999. | 1.403 | 34.700 | 1.60 | 1.087 | 27.798 |
| 4390. | 1.442 | 34.701 | 1.61 | 1.081 | 27.800 |

* Calculated from CTD values

CAST EP2-87-OC -017 LAT 00 00.5N LONG 134 58.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.856 | 34.936 | 2.29 | 26.856 | 22.718 |
| 19. | 26.768 | 34.967 | 1.83 | 26.764 | 22.770 |
| 40. | 26.297 | 35.089 | 1.66 | 26.288 | 23.012 |
| 58. | 25.372 | 35.145 | 1.59 | 25.359 | 23.343 |
| 79. | 23.307 | 35.183 | 1.37 | 23.291 | 23.990 |
| 101. | 18.632 | 35.182 | 1.30 | 18.614 | 25.259 |
| 123. | 16.405 | 35.030 | 1.20 | 16.385 | 25.683 |
| 148. | 14.887 | 35.008 | 1.16 | 14.865 | 26.009 |
| 203. | 12.691 | 34.912 | 0.74 | 12.664 | 26.392 |

CAST EP2-87-OC -018 LAT 00 00.7S LONG 129 59.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 12.126 | 34.870 | 0.24 | 12.087 | 26.472 |
| 398. | 9.581 | 34.723 | 0.20 | 9.536 | 26.814 |
| 497. | 8.008 | 34.634 | 0.34 | 7.957 | 26.993 |
| 995. | 4.526 | 34.564 | 0.73 | 4.447 | 27.392 |
| 1495. | 2.996 | 34.614 | 0.84 | 2.889 | 27.587 |
| 1996. | 2.224 | 34.652 | 0.98 | 2.084 | 27.686 |
| 2494. | 1.860 | 34.672 | 1.15 | 1.683 | 27.733 |
| 2997. | 1.674 | 34.681 | 1.30 | 1.454 | 27.758 |
| 3496. | 1.510 | 34.694 | 1.45 | 1.244 | 27.783 |
| 3752. | 1.428 | 34.697 | 1.53 | 1.138 | 27.793 |
| 3998. | 1.420 | 34.702 | 1.60 | 1.103 | 27.799 |
| 4502. | 1.473 | 34.701 | 1.65 | 1.098 | 27.799 |

CAST EP2-87-OC -019 LAT 00 01.6S LONG 129 59.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 1. | 26.072 | 34.728 | 1.75 | 26.072 | 22.808 |
| 14. | 25.980 | 34.756 | 1.76 | 25.977 | 22.858 |
| 19. | 25.903 | 34.774* | 1.73 | 25.899* | 22.896* |
| 29. | 25.681 | 34.821 | 1.71 | 25.675 | 23.001 |
| 40. | 25.468 | 34.866 | 1.68 | 25.459 | 23.101 |
| 59. | 24.666 | 34.996 | 1.56 | 24.653 | 23.445 |
| 79. | 23.209 | 35.153 | 1.35 | 23.193 | 23.995 |
| 98. | 20.305 | 35.080 | 1.26 | 20.287 | 24.748 |
| 123. | 17.943 | 35.112 | 1.27 | 17.922 | 25.378 |
| 148. | 15.785 | 35.046 | 1.20 | 15.762 | 25.838 |
| 201. | 13.066 | 34.930 | 0.86 | 13.038 | 26.332 |
| 204. | 13.064 | 34.930 | 0.86 | 13.036 | 26.332 |

CAST EP2-87-OC -020 LAT 00 10.0N LONG 124 22.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 11.009 | 34.799 | 0.14 | 10.972 | 26.625 |
| 397. | 9.024 | 34.687 | 0.24 | 8.981 | 26.877 |
| 497. | 7.765 | 34.621 | 0.38 | 7.715 | 27.019 |
| 995. | 4.507 | 34.561 | 0.74 | 4.428 | 27.392 |
| 1495. | 3.045 | 34.610 | 0.84 | 2.937 | 27.580 |
| 1995. | 2.271 | 34.648 | 0.98 | 2.131 | 27.679 |
| 2496. | 1.881 | 34.669 | 1.13 | 1.703 | 27.729 |
| 2995. | 1.647 | 34.683 | 1.30 | 1.427 | 27.761 |
| 3514. | 1.487 | 34.693 | 1.45 | 1.220 | 27.784 |
| 3751. | 1.422 | 34.698 | 1.55 | 1.132 | 27.794 |
| 4001. | 1.435 | 34.698 | 1.57 | 1.118 | 27.795 |
| 4621. | 1.499 | 34.699 | 1.62 | 1.110 | 27.796 |

CAST EP2-87-OC -021 LAT 00 09.8N LONG 124 21.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 25.567 | 35.116 | 1.77 | 25.567 | 23.257 |
| 14. | 25.486 | 35.115 | 1.81 | 25.483 | 23.282 |
| 28. | 25.271 | 35.116 | 1.90 | 25.265 | 23.350 |
| 39. | 25.040 | 35.104 | 1.83 | 25.032 | 23.412 |
| 60. | 23.542 | 34.955 | 1.53 | 23.530 | 23.747 |
| 79. | 20.994 | 34.921 | 1.22 | 20.979 | 24.441 |
| 99. | 17.856 | 35.122 | 1.27 | 17.839 | 25.406 |
| 121. | 16.090 | 35.119 | 1.22 | 16.071 | 25.824 |
| 149. | 14.530 | 34.999 | 1.11 | 14.508 | 26.079 |
| 203. | 13.038 | 34.905 | 0.78 | 13.010 | 26.318 |
| 203. | 13.053 | 34.905 | 0.78 | 13.025 | 26.315 |

CAST EP2-87-OC -022 LAT 00 00.8S LONG 119 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 11.385 | 34.826 | 0.12 | 11.347 | 26.577 |
| 397. | 9.918 | 34.691 | 0.22 | 9.872 | 26.733 |
| 496. | 8.299 | 34.648 | 0.29 | 8.247 | 26.960 |
| 1001. | 4.531 | 34.563 | 0.73 | 4.451 | 27.391 |
| 1495. | 3.009 | 34.613 | 0.83 | 2.901 | 27.585 |
| 1995. | 2.302 | 34.648 | 0.96 | 2.161 | 27.677 |
| 2496. | 1.887 | 34.670 | 1.14 | 1.709 | 27.730 |
| 2997. | 1.655 | 34.681 | 1.32 | 1.435 | 27.759 |
| 3498. | 1.496 | 34.695 | 1.45 | 1.230 | 27.785 |
| 3749. | 1.411 | 34.699 | 1.56 | 1.121 | 27.795 |
| 4000. | 1.437 | 34.700 | 1.58 | 1.120 | 27.796 |
| 4211. | 1.459 | 34.699 | 1.59 | 1.118 | 27.796 |

* Calculated from CTD values

CAST EP2-87-OC -023 LAT 00 00.9N LONG 119 59.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 2. | 24.636 | 34.896 | 1.80 | 24.636 | 23.375 |
| 14. | 24.565 | 34.894 | 1.79 | 24.562 | 23.395 |
| 19. | 24.548 | 34.886* | 1.79 | 24.544* | 23.395* |
| 30. | 24.525 | 34.888 | 1.81 | 24.519 | 23.404 |
| 39. | 23.921 | 34.882 | 1.76 | 23.913 | 23.580 |
| 59. | 22.719 | 34.933 | 1.56 | 22.707 | 23.968 |
| 78. | 20.241 | 35.087 | 1.33 | 20.226 | 24.769 |
| 97. | 17.308 | 35.014 | 1.24 | 17.292 | 25.456 |
| 124. | 15.426 | 34.930 | 1.13 | 15.407 | 25.829 |
| 149. | 13.987 | 34.942 | 1.07 | 13.966 | 26.150 |
| 206. | 12.873 | 34.917 | 1.18 | 12.845 | 26.360 |
| 205. | 12.888 | 34.917 | 0.74 | 12.860 | 26.357 |

CAST EP2-87-OC -024 LAT 00 00.5N LONG 114 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 1. | 23.896 | 34.856 | 1.83 | 23.896 | 23.565 |
| 15. | 23.898 | 34.855 | 1.86 | 23.895 | 23.564 |
| 19. | 23.867 | 34.851* | 1.86 | 23.863* | 23.571* |
| 29. | 23.523 | 34.851 | 1.82 | 23.517 | 23.672 |
| 39. | 23.088 | 34.858 | 1.70 | 23.080 | 23.804 |
| 58. | 21.403 | 34.953 | 1.51 | 21.392 | 24.352 |
| 78. | 19.449 | 35.311 | 1.28 | 19.435 | 25.148 |
| 99. | 16.663 | 34.959 | 1.17 | 16.647 | 25.567 |
| 124. | 15.113 | 35.007 | 1.13 | 15.094 | 25.957 |
| 148. | 13.824 | 34.955 | 0.99 | 13.803 | 26.194 |
| 201. | 12.900 | 34.919 | 0.74 | 12.872 | 26.356 |
| 201. | 12.900 | 34.912* | 0.74 | 12.872* | 26.351* |

CAST EP2-87-OC -025 LAT 00 00.7N LONG 114 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 297. | 11.847 | 34.862 | 0.06 | 11.808 | 26.519 |
| 397. | 9.266 | 34.698 | 0.16 | 9.222 | 26.846 |
| 497. | 7.983 | 34.630 | 0.36 | 7.932 | 26.994 |
| 995. | 4.676 | 34.560 | 0.70 | 4.596 | 27.372 |
| 1493. | 3.084 | 34.609 | 0.82 | 2.976 | 27.575 |
| 1998. | 2.343 | 34.645 | 0.95 | 2.201 | 27.671 |
| 2501. | 1.848 | 34.670 | 1.15 | 1.670 | 27.733 |
| 2997. | 1.673 | 34.680 | 1.32 | 1.453 | 27.757 |
| 3248. | 1.586 | 34.686 | 1.38 | 1.343 | 27.770 |
| 3498. | 1.505 | 34.693 | 1.47 | 1.239 | 27.782 |
| 3749. | 1.432 | 34.698 | 1.55 | 1.142 | 27.793 |
| 4050. | 1.457 | 34.698 | 1.56 | 1.134 | 27.794 |

CAST EP2-87-OC -026 LAT 08 02.7S LONG 109 54.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 0. | 25.612 | 35.433 | 1.89 | 25.612 | 23.483 |
| 19. | 25.625 | 35.425* | 1.86 | 25.621* | 23.474* |
| 39. | 25.632 | 35.433 | 1.92 | 25.623 | 23.479 |
| 59. | 25.637 | 35.433 | 1.95 | 25.624 | 23.479 |
| 77. | 25.472 | 35.525 | 2.01 | 25.455 | 23.601 |
| 99. | 22.281 | 35.855 | 1.74 | 22.261 | 24.795 |
| 146. | 16.653 | 35.273 | 0.75 | 16.629 | 25.813 |
| 198. | 12.372 | 34.902 | 0.20 | 12.346 | 26.447 |
| 298. | 11.116 | 34.828 | 0.29 | 11.079 | 26.628 |
| 497. | 8.644 | 34.671 | 0.22 | 8.591 | 26.926 |
| 746. | 5.889 | 34.554 | 0.51 | 5.823 | 27.223 |
| 1000. | 4.458 | 34.547 | 0.81 | 4.379 | 27.386 |

CAST EP2-87-OC -027 LAT 07 00.1S LONG 110 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 25.556 | 35.413 | 1.92 | 25.556 | 23.485 |
| 18. | 25.474 | 35.362 | 1.93 | 25.470 | 23.473 |
| 38. | 25.467 | 35.362 | 1.97 | 25.459 | 23.476 |
| 59. | 25.448 | 35.402 | 1.95 | 25.435 | 23.514 |
| 80. | 22.931 | 35.724 | 1.72 | 22.915 | 24.509 |
| 98. | 20.071 | 35.656 | 1.46 | 20.053 | 25.250 |
| 124. | 18.030 | 35.446 | 1.07 | 18.009 | 25.613 |
| 145. | 15.821 | 35.187 | 0.53 | 15.798 | 25.938 |
| 200. | 12.863 | 34.934 | 0.10 | 12.836 | 26.375 |
| 295. | 11.343 | 34.842 | 0.22 | 11.306 | 26.597 |
| 494. | 8.969 | 34.692 | 0.09 | 8.915 | 26.891 |
| 746. | 5.791 | 34.552 | 0.57 | 5.726 | 27.233 |
| 1007. | 4.413 | 34.551 | 0.88 | 4.334 | 27.394 |

CAST EP2-87-OC -028 LAT 06 00.6S LONG 110 01.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 25.373 | 35.337 | 1.93 | 25.373 | 23.484 |
| 14. | 25.376 | 35.295 | 1.87 | 25.373 | 23.452 |
| 18. | 25.377 | 35.295 | 1.96 | 25.373 | 23.452 |
| 39. | 25.368 | 35.295 | 1.95 | 25.360 | 23.456 |
| 58. | 25.344 | 35.298 | 2.04 | 25.331 | 23.467 |
| 78. | 25.337 | 35.300 | 2.09 | 25.320 | 23.472 |
| 100. | 21.626 | 35.688 | 1.62 | 21.606 | 24.852 |
| 146. | 14.005 | 35.008 | 0.10 | 13.984 | 26.197 |
| 199. | 12.164 | 34.894 | 0.21 | 12.138 | 26.481 |
| 300. | 10.760 | 34.805 | 0.23 | 10.723 | 26.674 |
| 495. | 8.025 | 34.639 | 0.27 | 7.974 | 26.994 |
| 748. | 5.761 | 34.551 | 0.62 | 5.696 | 27.236 |
| 995. | 4.559 | 34.550 | 0.83 | 4.479 | 27.377 |

* Calculated from CTD values

CAST EP2-87-OC -029 LAT 05 00.1S LONG 109 54.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 1. | 25.296 | 35.251 | 1.93 | 25.296 | 23.442 |
| 15. | 25.308 | 35.253 | 1.95 | 25.305 | 23.441 |
| 19. | 25.299 | 35.246* | 1.93 | 25.295* | 23.439* |
| 30. | 25.297 | 35.252 | 2.01 | 25.290 | 23.445 |
| 38. | 25.309 | 35.251 | 2.04 | 25.301 | 23.441 |
| 58. | 25.343 | 35.286 | 2.08 | 25.330 | 23.458 |
| 79. | 21.920 | 35.420 | 1.60 | 21.904 | 24.565 |
| 98. | 17.960 | 35.344 | 0.92 | 17.943 | 25.551 |
| 122. | 15.793 | 35.179 | 0.52 | 15.774 | 25.938 |
| 148. | 13.616 | 34.978 | 0.15 | 13.595 | 26.255 |
| 204. | 11.962 | 34.888 | 0.33 | 11.936 | 26.515 |

CAST EP2-87-OC -030 LAT 05 02.5S LONG 109 47.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 297. | 10.957 | 34.815 | 0.36 | 10.920 | 26.646 |
| 398. | 9.529 | 34.727 | 0.12 | 9.484 | 26.826 |
| 497. | 7.959 | 34.641 | 0.09 | 7.908 | 27.006 |
| 746. | 5.650 | 34.552 | 0.67 | 5.585 | 27.251 |
| 993. | 4.458 | 34.554 | 0.82 | 4.379 | 27.391 |
| 1495. | 3.016 | 34.606 | 0.91 | 2.908 | 27.579 |
| 1995. | 2.345 | 34.643 | 1.02 | 2.204 | 27.669 |
| 2495. | 1.920 | 34.668 | 1.17 | 1.742 | 27.726 |
| 2995. | 1.748 | 34.684 | 1.34 | 1.526 | 27.755 |
| 3242. | 1.614 | 34.688 | 1.44 | 1.371 | 27.769 |
| 3481. | 1.574 | 34.691 | 1.49 | 1.308 | 27.776 |

CAST EP2-87-OC -031 LAT 04 00.5S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 1. | 25.065 | 35.184 | 1.83 | 25.065 | 23.462 |
| 20. | 25.052 | 35.152* | 1.90 | 25.048* | 23.443* |
| 39. | 25.054 | 35.153 | 1.94 | 25.046 | 23.445 |
| 59. | 25.023 | 35.154 | 2.00 | 25.010 | 23.456 |
| 76. | 21.036 | 35.550 | 1.41 | 21.021 | 24.908 |
| 98. | 16.855 | 35.289 | 0.72 | 16.839 | 25.775 |
| 124. | 14.091 | 35.025 | 0.36 | 14.073 | 26.192 |
| 149. | 13.312 | 34.948 | 0.24 | 13.291 | 26.294 |
| 198. | 12.838 | 34.920 | 0.14 | 12.811 | 26.369 |
| 297. | 11.817 | 34.866 | 0.06 | 11.779 | 26.528 |
| 496. | 8.398 | 34.663 | 0.09 | 8.346 | 26.957 |
| 744. | 5.768 | 34.561 | 0.57 | 5.703 | 27.243 |
| 1006. | 4.495 | 34.558 | 0.83 | 4.415 | 27.391 |

CAST EP2-87-OC -032 LAT 02 59.7S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 25.113 | 35.057 | 2.03 | 25.113 | 23.352 |
| 20. | 24.871 | 35.028 | 2.15 | 24.867 | 23.405 |
| 37. | 24.849 | 35.033 | 2.13 | 24.841 | 23.416 |
| 55. | 20.417 | 35.246 | 1.23 | 20.407 | 24.843 |
| 79. | 14.949 | 35.081 | 0.77 | 14.937 | 26.049 |
| 97. | 14.098 | 35.007 | 0.73 | 14.084 | 26.176 |
| 122. | 13.763 | 34.977 | 0.74 | 13.746 | 26.223 |
| 148. | 13.435 | 34.953 | 0.73 | 13.414 | 26.273 |
| 196. | 13.131 | 34.934 | 0.43 | 13.104 | 26.321 |
| 296. | 11.888 | 34.871 | 0.04 | 11.849 | 26.518 |
| 497. | 8.088 | 34.640 | 0.38 | 8.037 | 26.986 |
| 745. | 5.970 | 34.558 | 0.68 | 5.904 | 27.216 |
| 1007. | 4.530 | 34.561 | 0.79 | 4.450 | 27.389 |

CAST EP2-87-OC -033 LAT 02 01.0S LONG 110 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 24.399 | 34.983 | 2.00 | 24.399 | 23.511 |
| 14. | 24.373 | 34.983 | 2.05 | 24.370 | 23.520 |
| 17. | 24.335 | 34.981 | 2.14 | 24.331 | 23.530 |
| 29. | 24.174 | 34.993 | 2.07 | 24.168 | 23.588 |
| 37. | 21.094 | 35.277 | 1.39 | 21.087 | 24.683 |
| 59. | 15.398 | 35.080 | 0.73 | 15.389 | 25.948 |
| 79. | 14.028 | 34.994 | 0.66 | 14.017 | 26.180 |
| 98. | 13.852 | 34.981 | 0.58 | 13.838 | 26.207 |
| 124. | 13.285 | 34.945 | 0.66 | 13.268 | 26.297 |
| 149. | 12.794 | 34.916 | 0.67 | 12.774 | 26.374 |
| 197. | 12.721 | 34.907 | 0.62 | 12.694 | 26.382 |
| 250. | 12.571 | 34.895 | 0.43 | 12.537 | 26.404 |

CAST EP2-87-OC -034 LAT 02 04.3S LONG 110 02.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 11.630 | 34.847 | 0.05 | 11.592 | 26.548 |
| 397. | 8.938 | 34.684 | 0.40 | 8.895 | 26.888 |
| 496. | 7.761 | 34.619 | 0.49 | 7.711 | 27.018 |
| 996. | 4.633 | 34.560 | 0.72 | 4.553 | 27.377 |
| 1495. | 3.188 | 34.605 | 0.83 | 3.078 | 27.563 |
| 1995. | 2.348 | 34.648 | 0.94 | 2.207 | 27.673 |
| 2495. | 1.942 | 34.665 | 1.11 | 1.763 | 27.722 |
| 2996. | 1.685 | 34.678 | 1.32 | 1.464 | 27.754 |
| 3246. | 1.601 | 34.686 | 1.38 | 1.358 | 27.768 |
| 3497. | 1.530 | 34.694 | 1.50 | 1.263 | 27.782 |
| 3749. | 1.448 | 34.698 | 1.59 | 1.157 | 27.792 |
| 3941. | 1.467 | 34.698 | 1.58 | 1.155 | 27.792 |

* Calculated from CTD values

CAST EP2-87-OC -035 LAT 01 29.9S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 24.004 | 35.096 | 1.98 | 24.004 | 23.715 |
| 99. | 14.610 | 35.065 | 0.60 | 14.595 | 26.111 |
| 247. | 12.629 | 24.900 | 0.46 | 12.599 | 18.656 |
| 499. | 7.911 | 34.629 | 0.42 | 7.860 | 27.004 |
| 596. | 7.116 | 34.593 | 0.61 | 7.058 | 27.090 |
| 696. | 6.237 | 34.569 | 0.63 | 6.174 | 27.190 |
| 797. | 5.785 | 34.563 | 0.70 | 5.715 | 27.243 |
| 895. | 5.170 | 34.555 | 0.82 | 5.095 | 27.312 |
| 1007. | 4.526 | 34.563 | 0.78 | 4.446 | 27.391 |

CAST EP2-87-OC -036 LAT 00 59.9S LONG 110 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 0. | 23.605 | 34.965 | 1.77 | 23.605 | 23.733 |
| 18. | 23.316 | 35.027 | 1.74 | 23.312 | 23.865 |
| 37. | 22.606 | 35.120 | 1.60 | 22.599 | 24.141 |
| 56. | 18.488 | 35.386* | 0.88 | 18.478* | 25.450* |
| 79. | 16.724 | 35.245 | 0.72 | 16.711 | 25.772 |
| 99. | 15.001 | 35.104 | 0.88 | 14.986 | 26.056 |
| 124. | 13.894 | 34.986 | 0.95 | 13.876 | 26.203 |
| 146. | 13.384 | 34.956 | 0.88 | 13.364 | 26.286 |
| 198. | 12.944 | 34.927 | 0.79 | 12.917 | 26.354 |
| 297. | 11.666 | 34.847 | 0.08 | 11.628 | 26.541 |
| 496. | 7.911 | 34.632 | 0.35 | 7.860 | 27.006 |
| 746. | 5.880 | 34.563 | 0.64 | 5.814 | 27.231 |
| 998. | 4.461 | 34.563 | 0.85 | 4.382 | 27.398 |

CAST EP2-87-OC -037 LAT 00 30.1S LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 23.326 | 34.971 | 1.91 | 23.326 | 23.819 |
| 18. | 22.912 | 34.969 | 1.82 | 22.908 | 23.938 |
| 38. | 21.832 | 35.050 | 1.54 | 21.824 | 24.306 |
| 59. | 17.960 | 35.195 | 1.29 | 17.950 | 25.435 |
| 79. | 17.390 | 35.206 | 1.14 | 17.377 | 25.583 |
| 100. | 15.943 | 35.114 | 1.18 | 15.927 | 25.853 |
| 123. | 14.723 | 35.044 | 1.09 | 14.705 | 26.071 |
| 148. | 13.973 | 34.976 | 1.04 | 13.952 | 26.179 |
| 198. | 13.000 | 34.927 | 0.83 | 12.973 | 26.342 |
| 305. | 11.711 | 34.842 | 0.10 | 11.672 | 26.529 |
| 501. | 7.864 | 34.628 | 0.35 | 7.813 | 27.010 |
| 750. | 5.813 | 34.562 | 0.68 | 5.747 | 27.239 |

CAST EP2-87-OC -038 LAT 00 03.6S LONG 109 51.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 11.850 | 34.852 | 0.12 | 11.811 | 26.511 |
| 397. | 9.317 | 34.704 | 0.20 | 9.273 | 26.843 |
| 497. | 7.750 | 34.624 | 0.35 | 7.700 | 27.023 |
| 995. | 4.588 | 34.565 | 0.71 | 4.508 | 27.386 |
| 1495. | 3.088 | 34.611 | 0.83 | 2.979 | 27.577 |
| 1995. | 2.346 | 34.648 | 0.95 | 2.205 | 27.673 |
| 2493. | 1.882 | 34.672 | 1.12 | 1.704 | 27.732 |
| 2745. | 1.759 | 34.680 | 1.23 | 1.561 | 27.749 |
| 2996. | 1.661 | 34.685 | 1.31 | 1.441 | 27.762 |
| 3247. | 1.589 | 34.690 | 1.39 | 1.346 | 27.772 |
| 3499. | 1.511 | 34.696 | 1.45 | 1.245 | 27.784 |
| 3780. | 1.451 | 34.701 | 1.55 | 1.157 | 27.795 |

CAST EP2-87-OC -041 LAT 01 00.8N LONG 109 57.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 25.671 | 34.388 | 1.92 | 25.671 | 22.675 |
| 20. | 25.007 | 34.438 | 1.86 | 25.003 | 22.918 |
| 39. | 23.592 | 34.728 | 1.82 | 23.584 | 23.560 |
| 61. | 21.953 | 34.782 | 1.52 | 21.941 | 24.070 |
| 79. | 20.260 | 34.817 | 1.28 | 20.245 | 24.559 |
| 101. | 15.354 | 34.962 | 0.75 | 15.339 | 25.869 |
| 124. | 15.026 | 34.973 | 0.75 | 15.007 | 25.950 |
| 148. | 14.272 | 34.968 | 0.67 | 14.250 | 26.110 |
| 198. | 13.193 | 34.925 | 0.44 | 13.165 | 26.302 |
| 297. | 12.044 | 34.847 | 0.20 | 12.005 | 26.470 |
| 496. | 8.002 | 34.636 | 0.33 | 7.951 | 26.996 |
| 747. | 5.926 | 34.566 | 0.62 | 5.860 | 27.228 |
| 1006. | 4.576 | 34.565 | 0.76 | 4.495 | 27.387 |

CAST EP2-87-OC -039 LAT 00 00.3S LONG 109 52.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 23.272 | 34.824 | 1.76 | 23.272 | 23.723 |
| 14. | 23.164 | 34.827 | 1.78 | 23.161 | 23.758 |
| 18. | 23.058 | 34.832 | 1.76 | 23.054 | 23.792 |
| 29. | 22.719 | 34.856 | 1.71 | 22.713 | 23.908 |
| 40. | 22.071 | 34.905 | 1.54 | 22.063 | 24.129 |
| 58. | 20.625 | 35.004 | 1.37 | 20.614 | 24.603 |
| 78. | 17.630 | 35.068 | 1.16 | 17.617 | 25.419 |
| 97. | 16.017 | 35.042 | 1.15 | 16.002 | 25.780 |
| 122. | 15.007 | 34.952 | 1.01 | 14.989 | 25.938 |
| 148. | 14.175 | 34.969 | 1.03 | 14.154 | 26.131 |
| 198. | 12.979 | 34.923 | 0.71 | 12.952 | 26.344 |
| 251. | 12.455 | 34.880 | 0.32 | 12.421 | 26.415 |

CAST EP2-87-OC -042 LAT 01 31.3N LONG 110 01.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.272 | 34.258 | 2.20 | 26.272 | 22.391 |
| 95. | 15.489 | 34.948 | 0.75 | 15.474 | 25.827 |
| 245. | 12.898 | 34.912 | 0.50 | 12.864 | 26.352 |
| 497. | 7.903 | 34.678 | 0.44 | 7.852 | 27.043 |
| 595. | 6.798 | 34.584 | 0.53 | 6.742 | 27.127 |
| 696. | 6.277 | 34.571 | 0.62 | 6.214 | 27.186 |
| 796. | 5.695 | 34.531 | 0.66 | 5.626 | 27.229 |
| 895. | 5.121 | 34.561 | 0.73 | 5.046 | 27.322 |
| 1006. | 4.641 | 34.568 | 0.67 | 4.560 | 27.383 |

CAST EP2-87-OC -040 LAT 00 29.3N LONG 109 59.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 0. | 24.559 | 34.682 | 2.18 | 24.559 | 23.236 |
| 99. | 15.499 | 34.913 | 0.80 | 15.484 | 25.798 |
| 247. | 12.652 | 34.895 | 0.45 | 12.619 | 26.388 |
| 497. | 7.654 | 34.622 | 0.38 | 7.604 | 27.036 |
| 596. | 7.029 | 34.594 | 0.46 | 6.972 | 27.103 |
| 696. | 6.196 | 34.570 | 0.59 | 6.133 | 27.196 |
| 794. | 5.468 | 34.561 | 0.67 | 5.400 | 27.280 |
| 896. | 5.092 | 34.561 | 0.69 | 5.017 | 27.325 |
| 1005. | 4.635 | 34.558* | 0.74 | 4.554* | 27.375* |
| 1004. | 4.635 | 34.565 | 0.74 | 4.554 | 27.381 |

CAST EP2-87-OC -043 LAT 02 11.9N LONG 110 21.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.478 | 34.272 | 1.92 | 26.478 | 22.337 |
| 14. | 26.484 | 34.274 | 2.00 | 26.481 | 22.337 |
| 30. | 26.480 | 34.274 | 2.10 | 26.473 | 22.340 |
| 59. | 24.079 | 34.538 | 1.88 | 24.067 | 23.274 |
| 99. | 16.594 | 34.923 | 0.78 | 16.578 | 25.556 |
| 146. | 13.630 | 34.947 | 0.79 | 13.609 | 26.228 |
| 199. | 12.914 | 34.924 | 0.72 | 12.887 | 26.357 |
| 249. | 12.749 | 34.913 | 0.66 | 12.715 | 26.383 |
| 297. | 12.382 | 34.874 | 0.33 | 12.342 | 26.426 |
| 398. | 9.528 | 34.722 | 0.08 | 9.483 | 26.822 |

* Calculated from CTD values

CAST EP2-87-OC -044 LAT 02 03.6N LONG 110 10.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 26.574 | 34.265 | 1.91 | 26.574 | 22.301 |
| 14. | 26.509 | 34.263 | 1.93 | 26.506 | 22.321 |
| 19. | 26.489 | 34.259 | 1.97 | 26.485 | 22.325 |
| 29. | 26.389 | 34.250 | 2.00 | 26.382 | 22.350 |
| 39. | 26.196 | 34.258 | 2.02 | 26.187 | 22.417 |
| 59. | 24.541 | 34.520 | 1.89 | 24.528 | 23.122 |
| 79. | 20.841 | 34.848 | 1.54 | 20.826 | 24.427 |
| 99. | 16.162 | 34.934 | 0.84 | 16.146 | 25.664 |
| 124. | 14.276 | 34.933 | 0.82 | 14.258 | 26.082 |
| 148. | 13.713 | 34.935 | 0.84 | 13.692 | 26.202 |
| 197. | 12.975 | 34.913 | 0.44 | 12.948 | 26.337 |
| 508. | 7.681 | 34.615 | 0.34 | 7.630 | 27.026 |

CAST EP2-87-OC -047 LAT 05 02.3N LONG 110 01.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 10.160 | 34.713 | 0.46 | 10.125 | 26.707 |
| 397. | 9.471 | 34.690 | 0.18 | 9.426 | 26.806 |
| 495. | 8.231 | 34.639 | 0.05 | 8.179 | 26.964 |
| 1056. | 4.431 | 34.576 | 0.46 | 4.347 | 27.412 |
| 1495. | 3.073 | 34.619 | 0.70 | 2.965 | 27.584 |
| 1991. | 2.388 | 34.648 | 0.89 | 2.246 | 27.670 |
| 2493. | 1.897 | 34.675 | 1.05 | 1.719 | 27.733 |
| 2997. | 1.799 | 34.682 | 1.16 | 1.576 | 27.749 |
| 3280. | 1.601 | 34.690 | 1.30 | 1.355 | 27.772 |
| 3496. | 1.522 | 34.696 | 1.42 | 1.256 | 27.784 |
| 3643. | 1.501 | 34.698 | 1.44 | 1.220 | 27.788 |
| 3797. | 1.480 | 34.699 | 1.45 | 1.183 | 27.791 |

CAST EP2-87-OC -045 LAT 02 59.8N LONG 109 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 26.676 | 34.281 | 1.89 | 26.676 | 22.281 |
| 18. | 26.667 | 34.254 | 1.99 | 26.663 | 22.265 |
| 38. | 26.587 | 34.255 | 2.05 | 26.578 | 22.292 |
| 60. | 25.921 | 34.269 | 2.12 | 25.908 | 22.512 |
| 78. | 24.690 | 34.508 | 1.88 | 24.673 | 23.070 |
| 100. | 16.102 | 34.890 | 0.74 | 16.086 | 25.644 |
| 124. | 14.274 | 34.962 | 0.75 | 14.256 | 26.104 |
| 149. | 13.427 | 34.942 | 0.53 | 13.406 | 26.266 |
| 200. | 12.790 | 34.908 | 0.57 | 12.763 | 26.370 |
| 297. | 11.858 | 34.835 | 0.20 | 11.819 | 26.496 |
| 497. | 8.013 | 34.633 | 0.30 | 7.962 | 26.992 |
| 745. | 5.964 | 34.570 | 0.48 | 5.898 | 27.226 |
| 1008. | 4.459 | 34.572 | 0.67 | 4.379 | 27.406 |

CAST EP2-87-OC -048 LAT 05 01.7N LONG 109 57.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|---------|
| 0. | 28.495 | 34.030 | 1.82 | 28.495 | 21.505 |
| 14. | 28.397 | 34.023 | 1.86 | 28.394 | 21.534 |
| 19. | 28.347 | 34.010 | 1.94 | 28.342 | 21.541 |
| 28. | 28.373 | 34.040 | 1.92 | 28.366 | 21.555 |
| 39. | 28.381 | 34.072 | 1.94 | 28.372 | 21.578 |
| 59. | 28.353 | 34.080 | 1.99 | 28.339 | 21.594 |
| 77. | 27.730 | 34.640 | 1.86 | 27.712 | 22.220 |
| 97. | 22.220 | 34.814 | 1.21 | 22.201 | 24.022 |
| 122. | 14.048 | 34.674 | 0.59 | 14.030 | 25.929 |
| 148. | 12.186 | 34.680 | 0.48 | 12.167 | 26.309 |
| 198. | 11.145 | 34.756* | 1.50 | 11.120* | 26.564* |
| 199. | 11.147 | 34.764 | 0.77 | 11.122 | 26.570 |

CAST EP2-87-OC -046 LAT 03 59.4N LONG 109 59.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 27.721 | 34.268 | 1.86 | 27.721 | 21.937 |
| 19. | 27.725 | 34.215 | 1.91 | 27.721 | 21.897 |
| 39. | 27.618 | 34.235 | 1.95 | 27.609 | 21.949 |
| 58. | 27.574 | 34.240 | 2.05 | 27.560 | 21.968 |
| 80. | 24.472 | 34.762 | 1.75 | 24.455 | 23.328 |
| 100. | 16.856 | 34.835 | 0.88 | 16.840 | 25.427 |
| 125. | 14.429 | 34.929 | 0.64 | 14.411 | 26.046 |
| 150. | 13.656 | 34.942 | 0.62 | 13.635 | 26.219 |
| 199. | 12.968 | 34.904 | 0.43 | 12.941 | 26.331 |
| 299. | 11.475 | 34.801 | 0.38 | 11.437 | 26.541 |
| 499. | 8.466 | 34.649 | 0.09 | 8.413 | 26.936 |
| 746. | 5.821 | 34.566 | 0.43 | 5.755 | 27.241 |
| 1000. | 4.428 | 34.577 | 0.59 | 4.349 | 27.413 |

CAST EP2-87-OC -049 LAT 06 00.3N LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.105 | 33.491 | 1.79 | 28.105 | 21.228 |
| 19. | 28.138 | 33.385 | 1.78 | 28.134 | 21.139 |
| 39. | 28.342 | 33.667 | 1.90 | 28.333 | 21.286 |
| 58. | 28.293 | 34.664 | 1.93 | 28.279 | 22.053 |
| 77. | 24.974 | 34.698 | 1.80 | 24.957 | 23.128 |
| 95. | 18.345 | 34.732 | 0.94 | 18.329 | 24.987 |
| 124. | 12.833 | 34.750 | 0.29 | 12.816 | 26.237 |
| 149. | 12.120 | 34.768 | 0.26 | 12.100 | 26.390 |
| 198. | 11.119 | 34.758 | 0.49 | 11.094 | 26.570 |
| 298. | 10.138 | 34.716 | 0.36 | 10.103 | 26.713 |
| 498. | 8.151 | 34.640 | 0.05 | 8.099 | 26.976 |
| 746. | 5.787 | 34.574 | 0.14 | 5.722 | 27.251 |
| 1019. | 4.400 | 34.576 | 0.48 | 4.319 | 27.415 |

* Calculated from CTD values

CAST EP2-87-OC -050 LAT 07 00.2N LONG 109 59.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.284 | 33.043 | 1.84 | 28.284 | 20.834 |
| 18. | 28.341 | 33.034 | 1.94 | 28.337 | 20.810 |
| 38. | 28.198 | 34.138 | 2.05 | 28.189 | 21.687 |
| 60. | 21.720 | 34.654 | 1.12 | 21.708 | 24.038 |
| 79. | 15.550 | 34.696 | 0.43 | 15.538 | 25.619 |
| 99. | 14.123 | 34.720 | 0.29 | 14.109 | 25.949 |
| 124. | 11.889 | 34.736 | 0.36 | 11.873 | 26.409 |
| 148. | 11.393 | 34.747 | 0.48 | 11.374 | 26.511 |
| 198. | 10.730 | 34.730 | 0.50 | 10.706 | 26.618 |
| 298. | 9.974 | 34.706 | 0.46 | 9.939 | 26.733 |
| 497. | 8.353 | 34.639 | 0.02 | 8.301 | 26.945 |
| 746. | 5.871 | 34.569 | 0.11 | 5.805 | 27.237 |
| 1007. | 4.417 | 34.578 | 0.35 | 4.337 | 27.415 |

CAST EP2-87-OC -053 LAT 10 02.5N LONG 110 00.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.850 | 33.439 | 1.78 | 28.850 | 20.945 |
| 16. | 28.862 | 33.387 | 2.01 | 28.858 | 20.903 |
| 36. | 26.380 | 34.260 | 2.11 | 26.372 | 22.361 |
| 58. | 19.488 | 34.602 | 0.67 | 19.478 | 24.596 |
| 79. | 14.956 | 34.762 | 0.12 | 14.944 | 25.801 |
| 99. | 13.278 | 34.803 | 0.09 | 13.264 | 26.188 |
| 125. | 12.518 | 34.801 | 0.13 | 12.501 | 26.338 |
| 149. | 12.170 | 34.792 | 0.15 | 12.151 | 26.399 |
| 198. | 11.625 | 34.771 | 0.15 | 11.600 | 26.487 |
| 298. | 10.777 | 34.744 | 0.06 | 10.741 | 26.623 |
| 498. | 8.398 | 34.627 | 0.01 | 8.345 | 26.929 |
| 746. | 5.821 | 34.562 | 0.05 | 5.755 | 27.237 |
| 1007. | 4.421 | 34.576 | 0.18 | 4.341 | 27.413 |

CAST EP2-87-OC -051 LAT 07 59.8N LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.300 | 32.910 | 1.82 | 28.300 | 20.728 |
| 18. | 28.475 | 31.419 | 1.92 | 28.471 | 19.554 |
| 38. | 25.074 | 34.564 | 1.70 | 25.066 | 22.994 |
| 58. | 19.601 | 34.568 | 0.68 | 19.590 | 24.540 |
| 76. | 15.505 | 34.700 | 0.42 | 15.493 | 25.632 |
| 98. | 13.601 | 34.757 | 0.25 | 13.587 | 26.086 |
| 120. | 12.440 | 34.777 | 0.31 | 12.424 | 26.335 |
| 147. | 11.607 | 34.720 | 0.46 | 11.588 | 26.450 |
| 197. | 11.105 | 34.740 | 0.44 | 11.081 | 26.559 |
| 299. | 9.967 | 34.709 | 0.17 | 9.932 | 26.737 |
| 497. | 8.001 | 34.619 | 0.01 | 7.950 | 26.982 |
| 747. | 5.794 | 34.566 | 0.11 | 5.729 | 27.244 |
| 1004. | 4.395 | 34.574 | 0.33 | 4.316 | 27.414 |

CAST EP2-87-OC -054 LAT 10 15.3N LONG 109 15.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.884 | 33.335 | 1.90 | 28.884 | 20.855 |
| 21. | 28.906 | 33.323 | 1.95 | 28.901 | 20.841 |
| 38. | 26.235 | 34.265 | 1.85 | 26.226 | 22.410 |
| 59. | 19.256 | 34.563 | 0.69 | 19.245 | 24.626 |
| 79. | 17.452 | 34.668 | 0.30 | 17.439 | 25.155 |
| 100. | 14.338 | 34.763 | 0.15 | 14.323 | 25.936 |
| 124. | 12.914 | 34.798 | 0.13 | 12.897 | 26.258 |
| 149. | 12.560 | 34.794 | 0.15 | 12.560 | 26.321 |
| 199. | 11.534 | 34.767 | 0.21 | 11.509 | 26.501 |
| 300. | 10.496 | 34.731 | 0.09 | 10.460 | 26.663 |
| 498. | 8.165 | 34.612 | 0.01 | 8.113 | 26.952 |
| 746. | 5.742 | 34.567 | 0.07 | 5.677 | 27.251 |
| 811. | 5.270 | 34.566 | 0.11 | 5.202 | 27.308 |

CAST EP2-87-OC -052 LAT 09 00.1N LONG 110 00.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.843 | 33.184 | 2.01 | 28.843 | 20.756 |
| 18. | 28.712 | 33.164 | 2.14 | 28.708 | 20.785 |
| 38. | 24.462 | 34.224 | 1.36 | 24.454 | 22.921 |
| 60. | 16.107 | 34.765 | 0.18 | 16.098 | 25.545 |
| 77. | 14.185 | 34.801 | 0.16 | 14.174 | 25.997 |
| 98. | 13.220 | 34.807 | 0.22 | 13.206 | 26.202 |
| 124. | 12.530 | 34.797 | 0.29 | 12.513 | 26.333 |
| 148. | 12.224 | 34.788 | 0.31 | 12.205 | 26.386 |
| 198. | 11.395 | 34.754 | 0.38 | 11.370 | 26.517 |
| 297. | 10.460 | 34.728 | 0.21 | 10.424 | 26.667 |
| 497. | 8.104 | 34.608 | 0.01 | 8.053 | 26.958 |
| 745. | 5.840 | 34.566 | 0.05 | 5.774 | 27.238 |
| 992. | 4.563 | 34.574 | 0.21 | 4.484 | 27.396 |

CAST EP2-87-OC -055 LAT 11 00.0N LONG 110 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 29.155 | 33.882 | 1.90 | 29.155 | 21.176 |
| 19. | 29.161 | 33.792 | 2.05 | 29.156 | 21.108 |
| 58. | 23.158 | 34.414 | 1.26 | 23.146 | 23.449 |
| 78. | 18.692 | 34.537 | 0.61 | 18.678 | 24.750 |
| 98. | 15.529 | 34.740 | 0.09 | 15.514 | 25.658 |
| 123. | 13.511 | 34.805 | 0.04 | 13.494 | 26.142 |
| 148. | 12.840 | 34.813 | 0.02 | 12.820 | 26.285 |
| 196. | 11.835 | 34.780 | 0.05 | 11.810 | 26.455 |
| 298. | 10.445 | 34.719 | 0.04 | 10.409 | 26.662 |
| 497. | 7.965 | 34.583 | 0.01 | 7.914 | 26.959 |
| 748. | 5.673 | 34.560 | 0.08 | 5.608 | 27.254 |
| 1001. | 4.403 | 34.574 | 0.26 | 4.324 | 27.413 |

CAST EP2-87-OC -059 LAT 15 00.5N LONG 109 59.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 28.623 | 34.162 | 1.90 | 28.623 | 21.562 |
| 15. | 28.437 | 34.177 | 2.13 | 28.433 | 21.636 |
| 17. | 28.143 | 34.265 | 2.16 | 28.139 | 21.799 |
| 28. | 27.269 | 34.314 | 2.28 | 27.263 | 22.119 |
| 39. | 26.430 | 34.384 | 2.17 | 26.421 | 22.439 |
| 59. | 21.802 | 34.372 | 2.07 | 21.790 | 23.800 |
| 80. | 16.985 | 34.344 | 0.86 | 16.972 | 25.018 |
| 100. | 15.291 | 34.504 | 0.28 | 15.276 | 25.530 |
| 123. | 13.732 | 34.673 | 0.06 | 13.715 | 25.995 |
| 148. | 12.947 | 34.740 | 0.02 | 12.927 | 26.207 |
| 200. | 12.020 | 34.778 | 0.01 | 11.994 | 26.418 |

CAST EP2-87-OC -060 LAT 15 02.2N LONG 109 58.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 298. | 10.608 | 34.716 | 0.00 | 10.572 | 26.631 |
| 397. | 9.366 | 34.648 | 0.01 | 9.321 | 26.791 |
| 496. | 8.136 | 34.584 | 0.00 | 8.085 | 26.935 |
| 996. | 4.543 | 34.562 | 0.09 | 4.463 | 27.388 |
| 1496. | 3.143 | 34.614 | 0.43 | 3.034 | 27.574 |
| 1998. | 2.303 | 34.650 | 0.78 | 2.162 | 27.678 |
| 2246. | 2.057 | 34.664 | 0.89 | 1.898 | 27.711 |
| 2494. | 1.901 | 34.672 | 1.00 | 1.723 | 27.730 |
| 2763. | 1.774 | 34.681 | 1.10 | 1.574 | 27.749 |
| 2995. | 1.716 | 34.685 | 1.17 | 1.495 | 27.758 |
| 3196. | 1.659 | 34.688 | 1.23 | 1.419 | 27.766 |
| 3349. | 1.652 | 34.689 | 1.25 | 1.397 | 27.768 |

CAST EP2-87-OC -056 LAT 12 00.7N LONG 110 01.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 29.390 | 33.781 | 1.84 | 29.390 | 21.021 |
| 20. | 29.397 | 33.833 | 2.00 | 29.392 | 21.059 |
| 38. | 26.514 | 34.267 | 2.12 | 26.505 | 22.324 |
| 59. | 20.436 | 34.460 | 1.06 | 20.425 | 24.239 |
| 80. | 17.086 | 34.634 | 0.19 | 17.073 | 25.217 |
| 99. | 14.167 | 34.842 | 0.02 | 14.153 | 26.034 |
| 123. | 13.531 | 34.870 | 0.03 | 13.514 | 26.188 |
| 149. | 12.992 | 34.846 | 0.03 | 12.972 | 26.280 |
| 197. | 12.119 | 34.801 | 0.00 | 12.093 | 26.417 |
| 297. | 10.563 | 34.727 | 0.00 | 10.527 | 26.648 |
| 497. | 7.293 | 34.570 | 0.01 | 7.245 | 27.046 |
| 745. | 5.554 | 34.555 | 0.03 | 5.490 | 27.265 |
| 1006. | 4.285 | 34.575 | 0.19 | 4.207 | 27.426 |

CAST EP2-87-OC -057 LAT 12 59.8N LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 29.392 | 33.838 | 1.86 | 29.392 | 21.063 |
| 19. | 29.374 | 33.803 | 1.92 | 29.369 | 21.045 |
| 40. | 27.199 | 34.148 | 1.96 | 27.190 | 22.018 |
| 60. | 22.735 | 34.432 | 1.39 | 22.723 | 23.584 |
| 79. | 19.312 | 34.512 | 0.66 | 19.298 | 24.573 |
| 98. | 16.374 | 34.602 | 0.23 | 16.358 | 25.360 |
| 124. | 13.813 | 34.787 | 0.01 | 13.795 | 26.066 |
| 149. | 12.832 | 34.806 | 0.00 | 12.812 | 26.281 |
| 199. | 11.957 | 34.792 | 0.00 | 11.931 | 26.441 |
| 299. | 10.626 | 34.714 | 0.00 | 10.590 | 26.627 |
| 498. | 7.653 | 34.585 | 0.01 | 7.603 | 27.007 |
| 747. | 5.640 | 34.568 | 0.01 | 5.575 | 27.264 |
| 993. | 4.556 | 34.567 | 0.12 | 4.477 | 27.391 |

CAST EP2-87-OC -058 LAT 14 00.2N LONG 110 00.3W

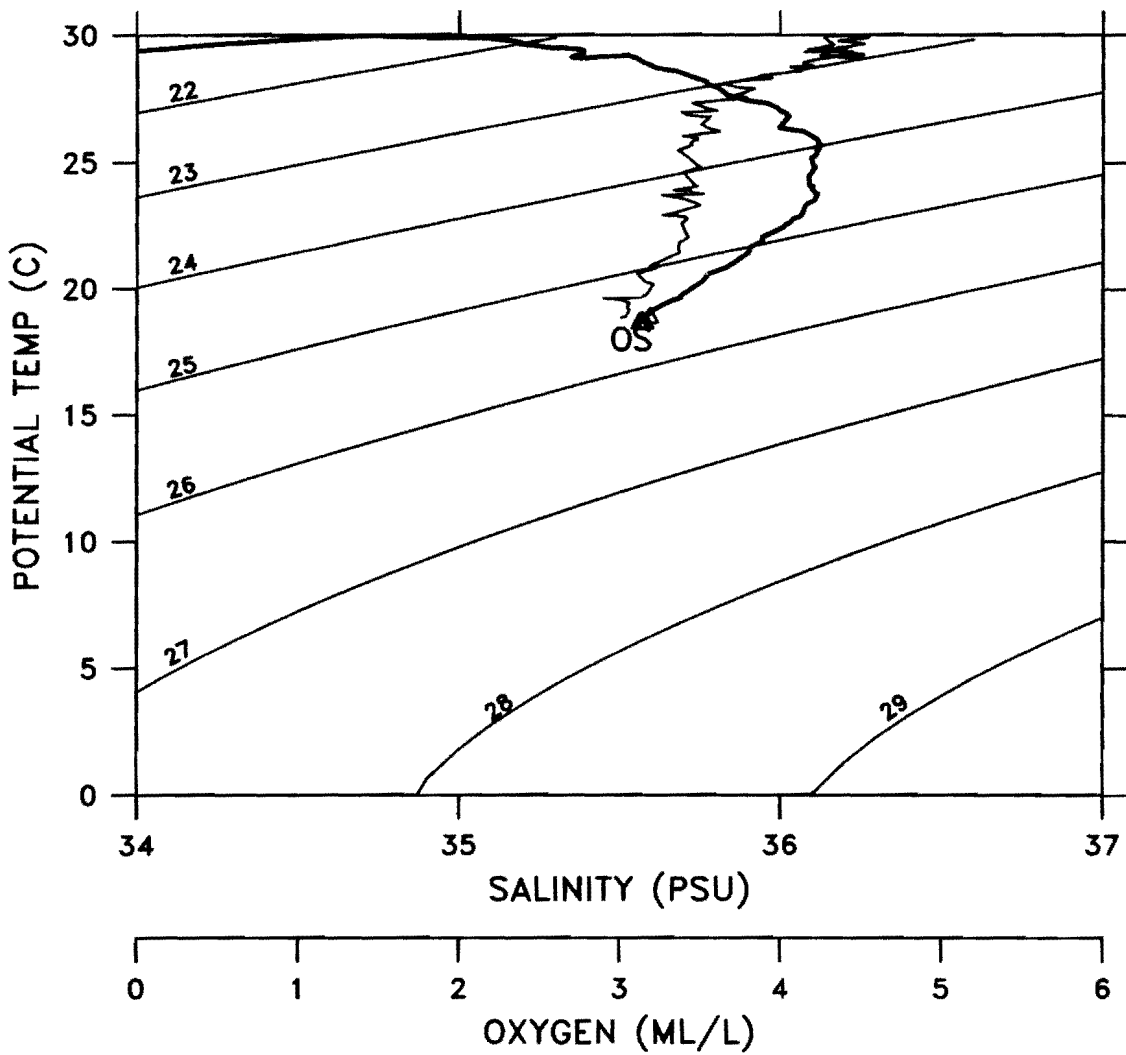
| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 0. | 29.442 | 33.580 | 1.74 | 29.442 | 20.853 |
| 19. | 29.209 | 33.533 | 2.00 | 29.204 | 20.897 |
| 40. | 27.879 | 34.128 | 2.12 | 27.870 | 21.784 |
| 59. | 24.544 | 34.350 | 1.73 | 24.531 | 22.993 |
| 78. | 20.013 | 34.514 | 0.85 | 19.999 | 24.393 |
| 100. | 16.764 | 34.683 | 0.11 | 16.748 | 25.331 |
| 123. | 14.414 | 34.805 | 0.01 | 14.396 | 25.953 |
| 147. | 13.249 | 34.844 | 0.01 | 13.229 | 26.227 |
| 198. | 12.418 | 34.818 | 0.00 | 12.392 | 26.373 |
| 298. | 10.836 | 34.746 | 0.00 | 10.800 | 26.614 |
| 497. | 8.209 | 34.590 | 0.01 | 8.157 | 26.929 |
| 592. | 7.019 | 34.571 | 0.01 | 6.962 | 27.086 |
| 1012. | 4.401 | 34.560 | 0.14 | 4.321 | 27.402 |

EP1-88-OC

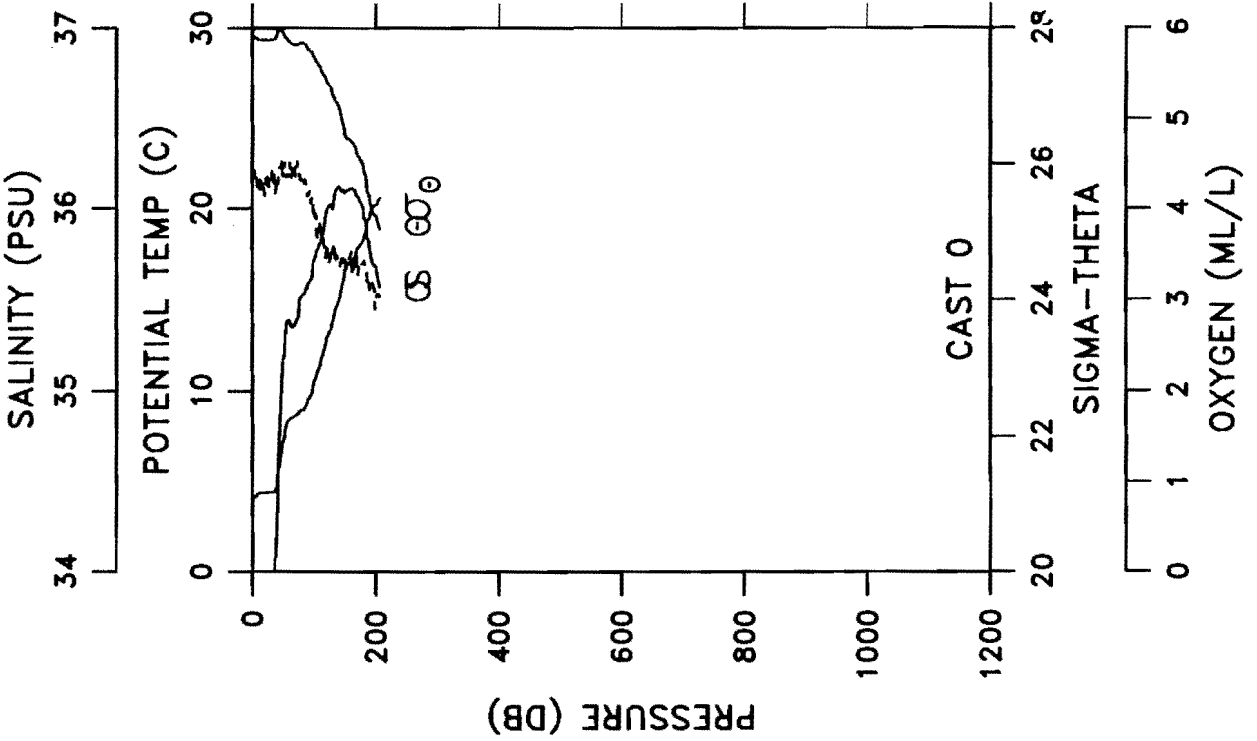
May 9–June 4, 1988

CTD/O₂ and Hydrographic Data Summary

CAST EP1-88-OC -000 DATE 12 MAY 88 TIME 0303 GMT
LAT 06 56.5S LONG 170 14.0W



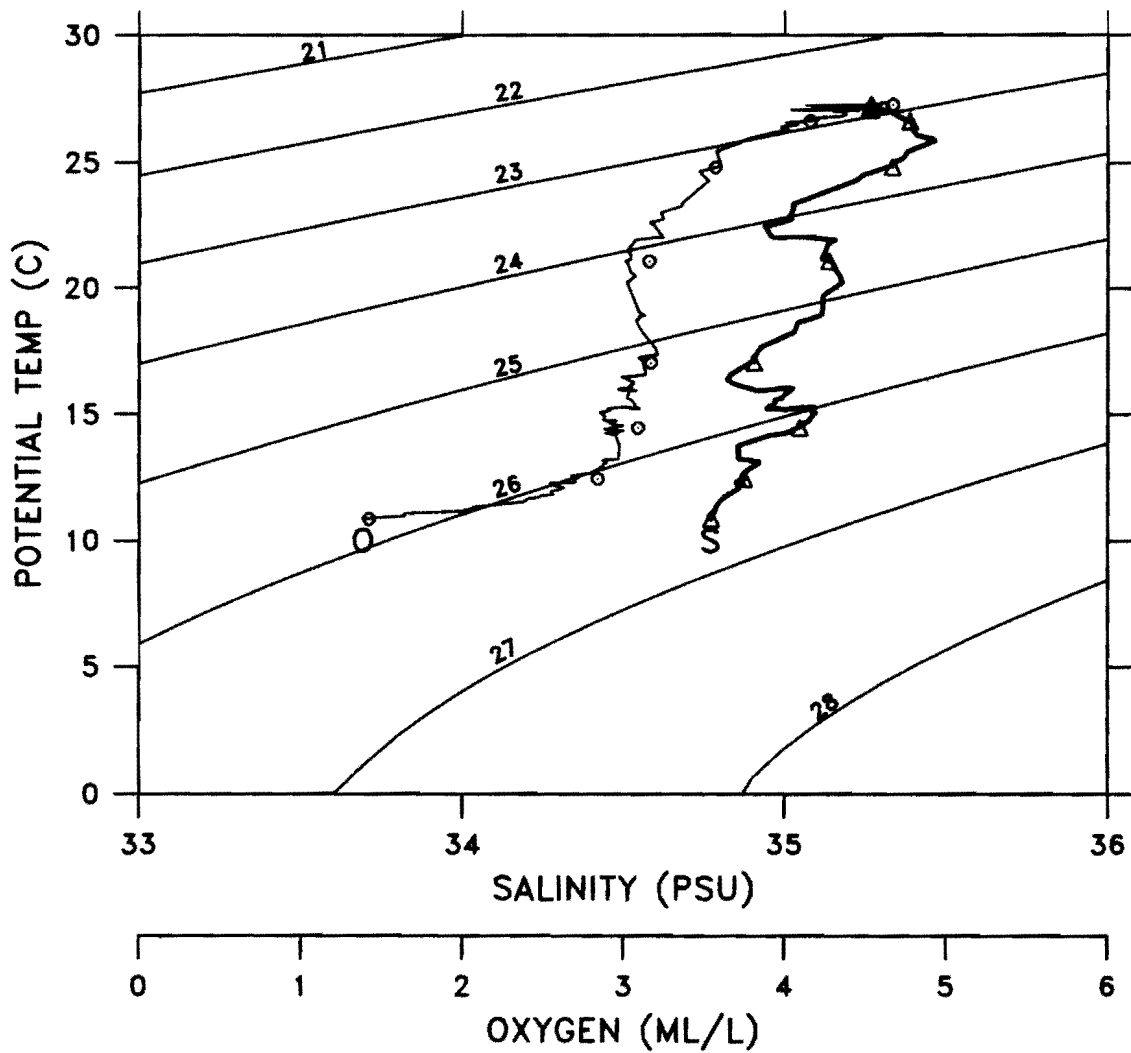
CAST EP1-88-OC -000 DATE 12 MAY 88 TIME 0303 GMT
 LAT 06 56.5S LONG 170 14.0W WEATHER 1 SEA STATE 3
 BAROMETER 07 WIND DIR 055 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 29.1 WET 25.9 DEPTH M



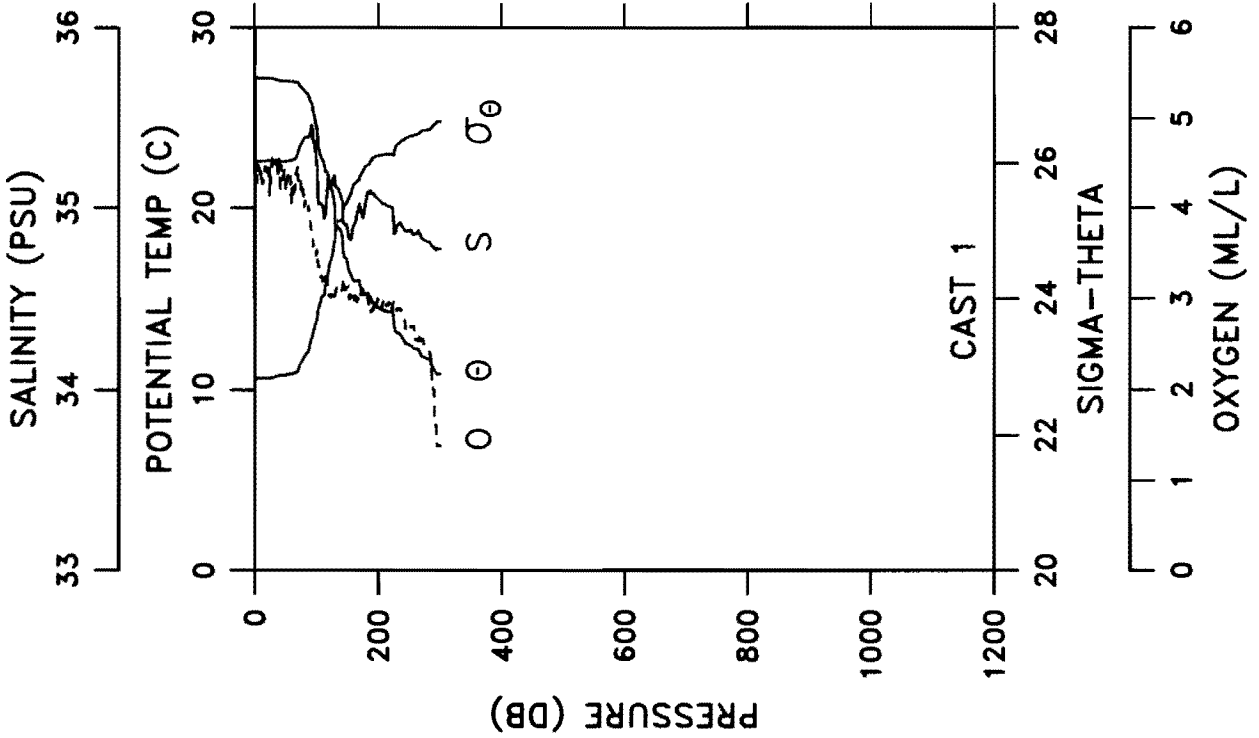
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 29.503 | 33.964 | 4.35 | 21.121 | 0.000 |
| 10 | 29.358 | 33.964 | 4.18 | 21.169 | 0.066 |
| 20 | 29.340 | 33.966 | 4.14 | 21.177 | 0.133 |
| 30 | 29.348 | 33.978 | 4.29 | 21.183 | 0.199 |
| 40 | 29.607 | 34.220 | 4.33 | 21.277 | 0.265 |
| 50 | 29.765 | 35.166 | 4.36 | 21.934 | 0.326 |
| 60 | 29.281 | 35.385 | 4.46 | 22.261 | 0.383 |
| 70 | 29.084 | 35.376 | 4.36 | 22.320 | 0.439 |
| 80 | 29.195 | 35.519 | 4.29 | 22.391 | 0.494 |
| 90 | 28.851 | 35.586 | 4.15 | 22.556 | 0.548 |
| 100 | 28.388 | 35.716 | 3.87 | 22.808 | 0.601 |
| 110 | 27.875 | 35.808 | 3.84 | 23.046 | 0.650 |
| 120 | 27.104 | 35.991 | 3.54 | 23.433 | 0.697 |
| 130 | 26.332 | 35.996 | 3.55 | 23.682 | 0.741 |
| 140 | 25.681 | 36.126 | 3.45 | 23.985 | 0.782 |
| 150 | 24.123 | 36.090 | 3.47 | 24.432 | 0.820 |
| 160 | 23.784 | 36.115 | 3.52 | 24.552 | 0.855 |
| 170 | 23.048 | 36.069 | 3.35 | 24.732 | 0.889 |
| 180 | 22.280 | 35.977 | 3.41 | 24.883 | 0.921 |
| 190 | 20.601 | 35.775 | 3.11 | 25.194 | 0.951 |
| 200 | 19.599 | 35.679 | 2.96 | 25.387 | 0.978 |
| 207 | 18.840 | 35.568 | 3.01 | 25.498 | 0.996 |

CAST EP1-88-OC -001 DATE 13 MAY 88 TIME 0855 GMT

LAT 00 00.1S LONG 169 35.2W



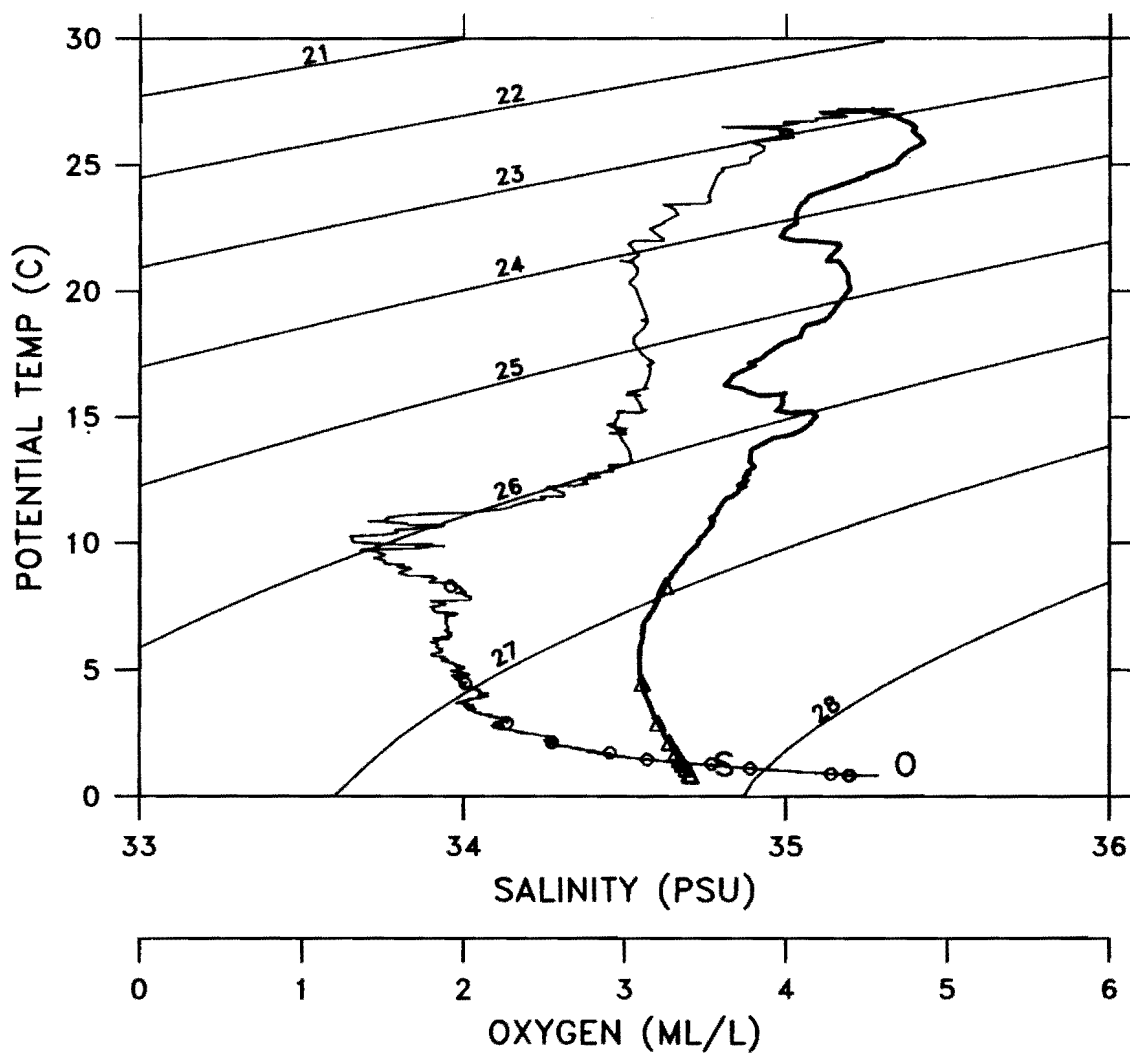
CAST EP1-88-OC -001 DATE 13 MAY 88 TIME 0855 GMT
 LAT 00 00.1S LONG 169 35.2W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DNR 105 T SPD 18 KT VISIBILITY 8
 CLOUD X AMOUNT 9 DRY 26.9 WET 24.3 DEPTH 5372 M



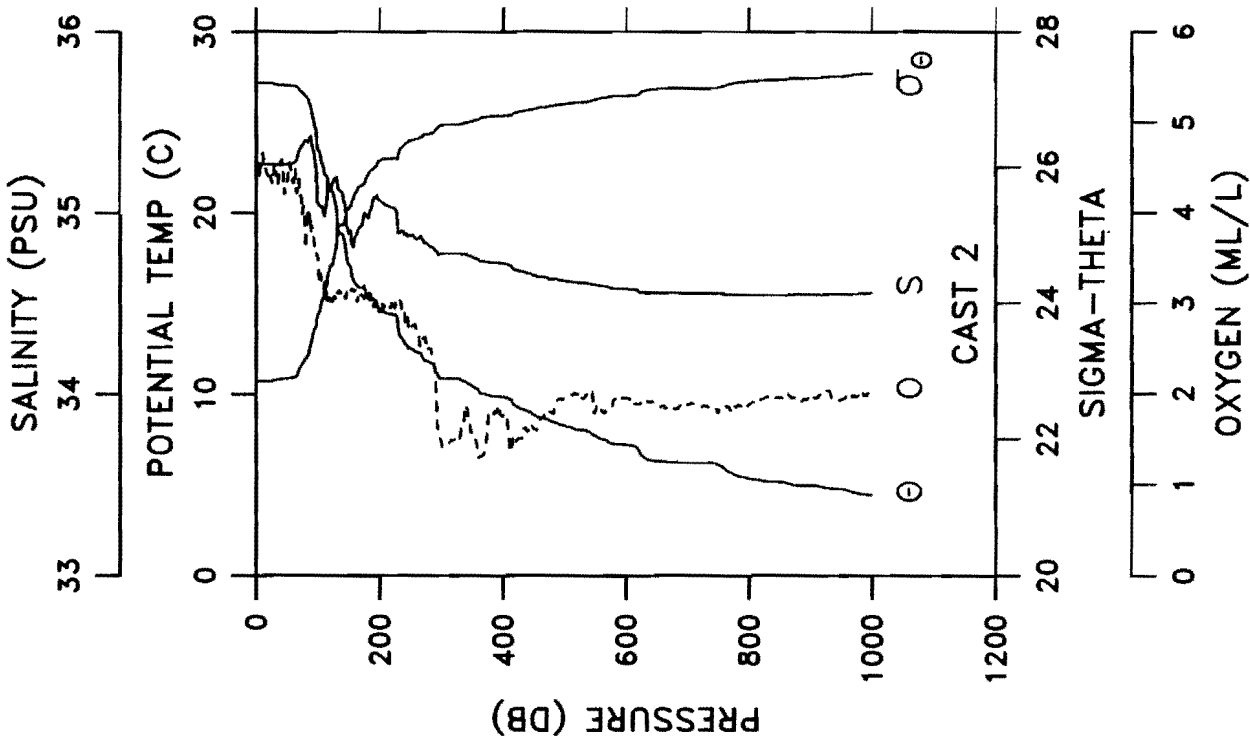
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.248 | 35.250 | 4.28 | 22.828 | 0.000 |
| 10 | 27.251 | 35.261 | 4.36 | 22.836 | 0.050 |
| 20 | 27.251 | 35.264 | 4.44 | 22.838 | 0.100 |
| 30 | 27.216 | 35.261 | 4.59 | 22.848 | 0.151 |
| 40 | 27.114 | 35.260 | 4.37 | 22.879 | 0.200 |
| 50 | 27.084 | 35.262 | 4.19 | 22.890 | 0.250 |
| 60 | 27.054 | 35.268 | 4.14 | 22.904 | 0.300 |
| 70 | 26.987 | 35.316 | 4.30 | 22.962 | 0.350 |
| 80 | 26.555 | 35.394 | 4.01 | 23.158 | 0.398 |
| 90 | 25.988 | 35.434 | 3.81 | 23.367 | 0.445 |
| 100 | 24.543 | 35.249 | 3.48 | 23.669 | 0.489 |
| 110 | 22.658 | 35.001 | 3.19 | 24.034 | 0.529 |
| 120 | 21.542 | 35.128 | 3.03 | 24.444 | 0.567 |
| 130 | 19.719 | 35.120 | 3.05 | 24.928 | 0.600 |
| 140 | 18.629 | 35.042 | 3.08 | 25.148 | 0.629 |
| 150 | 16.936 | 34.881 | 3.12 | 25.439 | 0.656 |
| 160 | 15.977 | 34.901 | 3.01 | 25.678 | 0.680 |
| 170 | 15.776 | 35.002 | 3.03 | 25.801 | 0.703 |
| 180 | 15.239 | 35.042 | 3.06 | 25.952 | 0.725 |
| 190 | 14.841 | 35.081 | 2.88 | 26.070 | 0.746 |
| 200 | 14.526 | 35.049 | 2.97 | 26.113 | 0.765 |
| 250 | 12.472 | 34.874 | 2.72 | 26.400 | 0.858 |
| 300 | 10.867 | 34.772 | 1.39 | 26.622 | 0.938 |
| 301 | 10.866 | 34.772 | 1.38 | 26.623 | 0.939 |

CAST EP1-88-OC -002 DATE 13 MAY 88 TIME 1248 GMT

LAT 00 00.6S LONG 169 33.1W

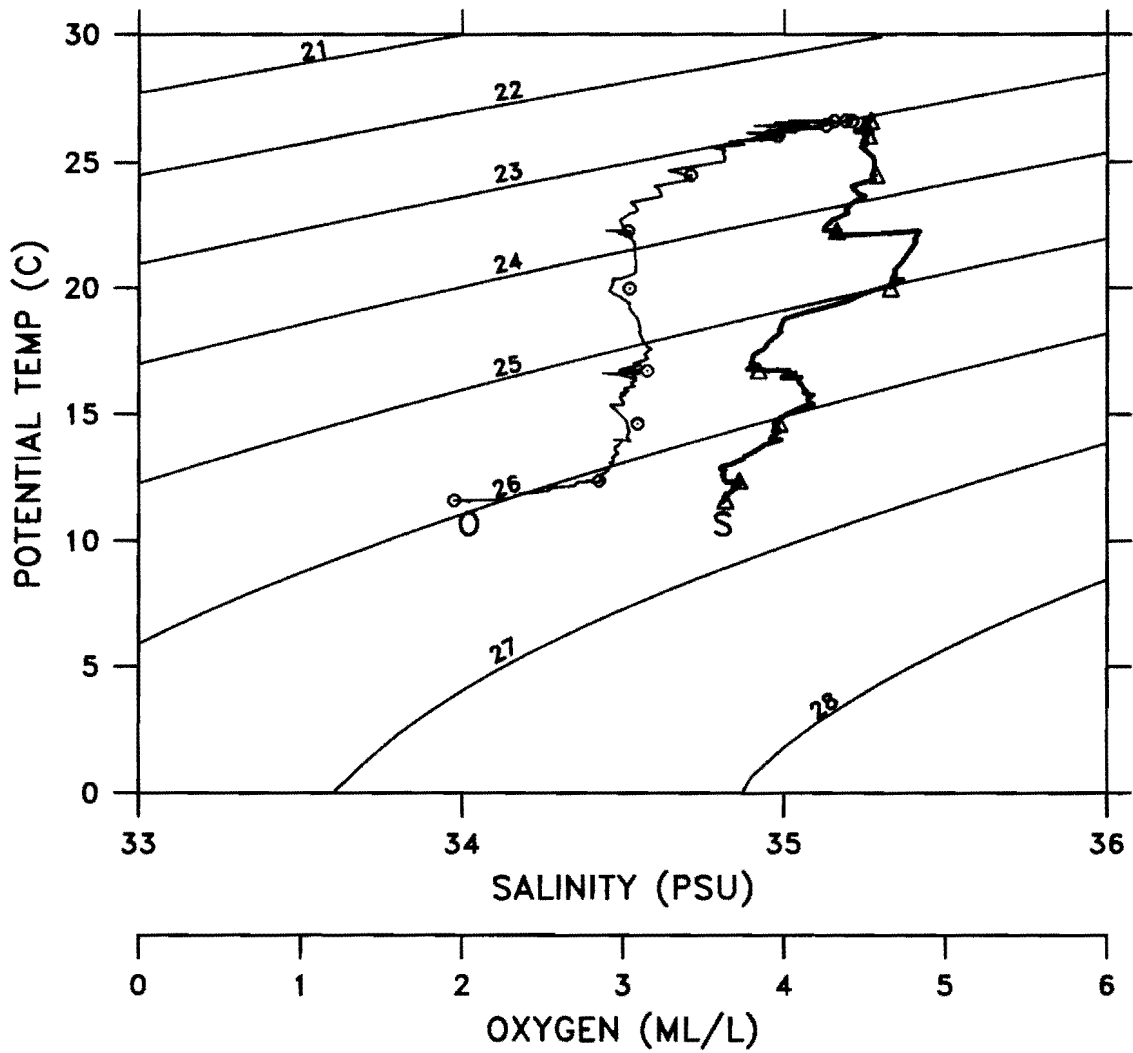


CAST EP1-88-0C -002 DATE 13 MAY 88 TIME 1248 GMT
 LAT 00 00.6S LONG 169 33.1W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 105 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 26.7 WET 24.0 DEPTH 5372 M

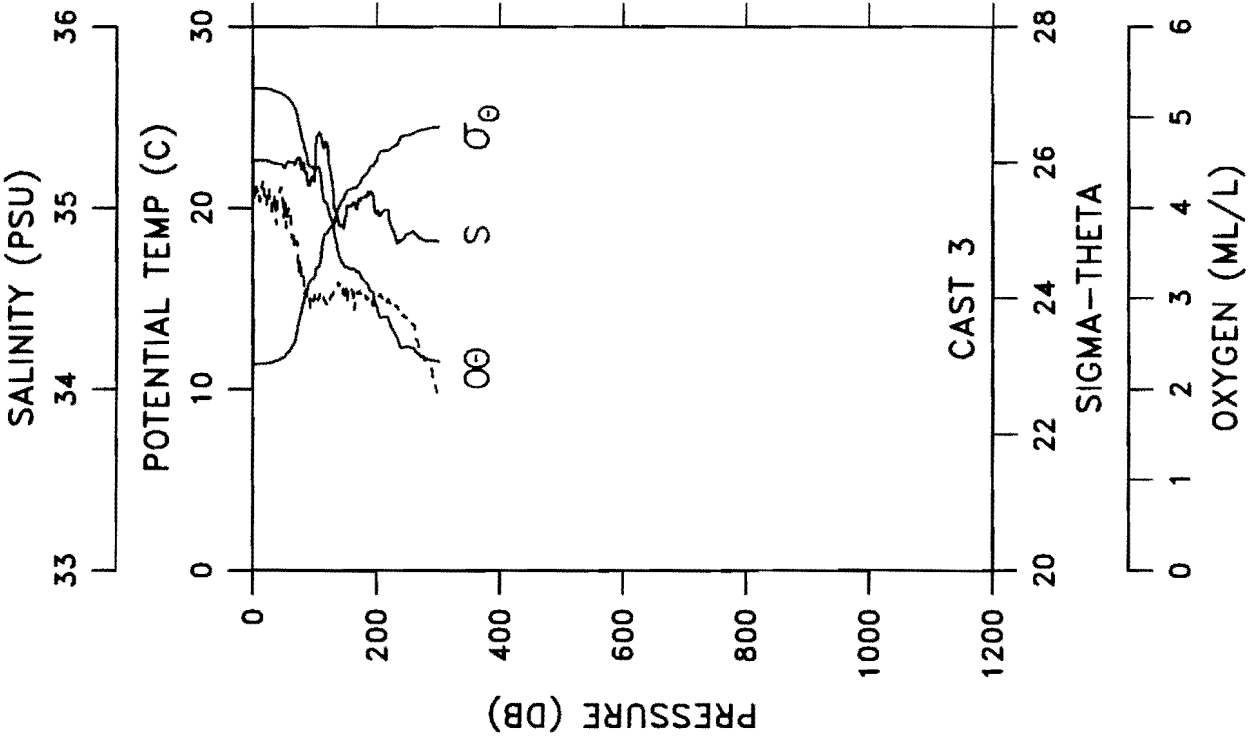


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.191 | 35.268 | 4.41 | 22.861 | 0.000 |
| 10 | 27.185 | 35.268 | 4.65 | 22.862 | 0.050 |
| 20 | 27.190 | 35.268 | 4.37 | 22.861 | 0.100 |
| 30 | 27.139 | 35.265 | 4.54 | 22.875 | 0.150 |
| 40 | 27.092 | 35.265 | 4.57 | 22.890 | 0.200 |
| 50 | 27.070 | 35.266 | 4.35 | 22.898 | 0.249 |
| 60 | 27.043 | 35.272 | 4.33 | 22.911 | 0.299 |
| 70 | 26.806 | 35.348 | 4.18 | 23.044 | 0.348 |
| 80 | 26.462 | 35.398 | 3.60 | 23.191 | 0.396 |
| 90 | 25.545 | 35.379 | 3.86 | 23.462 | 0.442 |
| 100 | 23.474 | 35.047 | 3.50 | 23.834 | 0.485 |
| 110 | 22.171 | 34.983 | 3.22 | 24.158 | 0.525 |
| 120 | 21.180 | 35.126 | 3.02 | 24.542 | 0.561 |
| 130 | 20.101 | 35.197 | 3.06 | 24.887 | 0.594 |
| 140 | 18.776 | 35.101 | 3.14 | 25.157 | 0.623 |
| 150 | 17.148 | 34.885 | 3.18 | 25.391 | 0.650 |
| 160 | 16.100 | 34.866 | 3.11 | 25.623 | 0.675 |
| 170 | 15.852 | 34.927 | 3.10 | 25.726 | 0.699 |
| 180 | 15.315 | 34.977 | 3.10 | 25.885 | 0.722 |
| 190 | 15.235 | 35.082 | 3.00 | 25.984 | 0.743 |
| 200 | 14.638 | 35.065 | 2.91 | 26.102 | 0.763 |
| 250 | 12.524 | 34.877 | 2.75 | 26.393 | 0.856 |
| 300 | 10.855 | 34.774 | 1.46 | 26.626 | 0.936 |
| 350 | 10.444 | 34.755 | 1.59 | 26.684 | 1.010 |
| 400 | 9.836 | 34.719 | 1.77 | 26.761 | 1.079 |
| 450 | 8.873 | 34.654 | 1.62 | 26.868 | 1.145 |
| 500 | 8.270 | 34.623 | 1.98 | 26.937 | 1.206 |
| 550 | 7.705 | 34.602 | 1.82 | 27.005 | 1.265 |
| 600 | 7.206 | 34.579 | 1.95 | 27.059 | 1.320 |
| 650 | 6.306 | 34.556 | 1.87 | 27.163 | 1.373 |
| 700 | 6.223 | 34.554 | 1.89 | 27.172 | 1.422 |
| 750 | 6.104 | 34.553 | 1.80 | 27.186 | 1.472 |
| 800 | 5.328 | 34.546 | 1.88 | 27.277 | 1.518 |
| 900 | 4.947 | 34.548 | 1.94 | 27.323 | 1.605 |
| 1000 | 4.425 | 34.555 | 1.98 | 27.387 | 1.687 |
| 1500 | 2.916 | 34.603 | 2.25 | 27.576 | 2.035 |
| 2000 | 2.106 | 34.640 | 2.54 | 27.675 | 2.313 |
| 2500 | 1.719 | 34.658 | 2.85 | 27.720 | 2.561 |
| 3000 | 1.451 | 34.670 | 3.15 | 27.749 | 2.795 |
| 3500 | 1.273 | 34.679 | 3.42 | 27.769 | 3.021 |
| 4000 | 1.103 | 34.691 | 3.79 | 27.790 | 3.242 |
| 4500 | 0.885 | 34.702 | 4.32 | 27.813 | 3.454 |
| 5000 | 0.827 | 34.705 | 4.48 | 27.820 | 3.661 |
| 5472 | 0.823 | 34.705 | 4.54 | 27.820 | 3.864 |

CAST EP1-88-OC -003 DATE 16 MAY 88 TIME 1259 GMT
LAT 00 00.2N LONG 164 59.8W

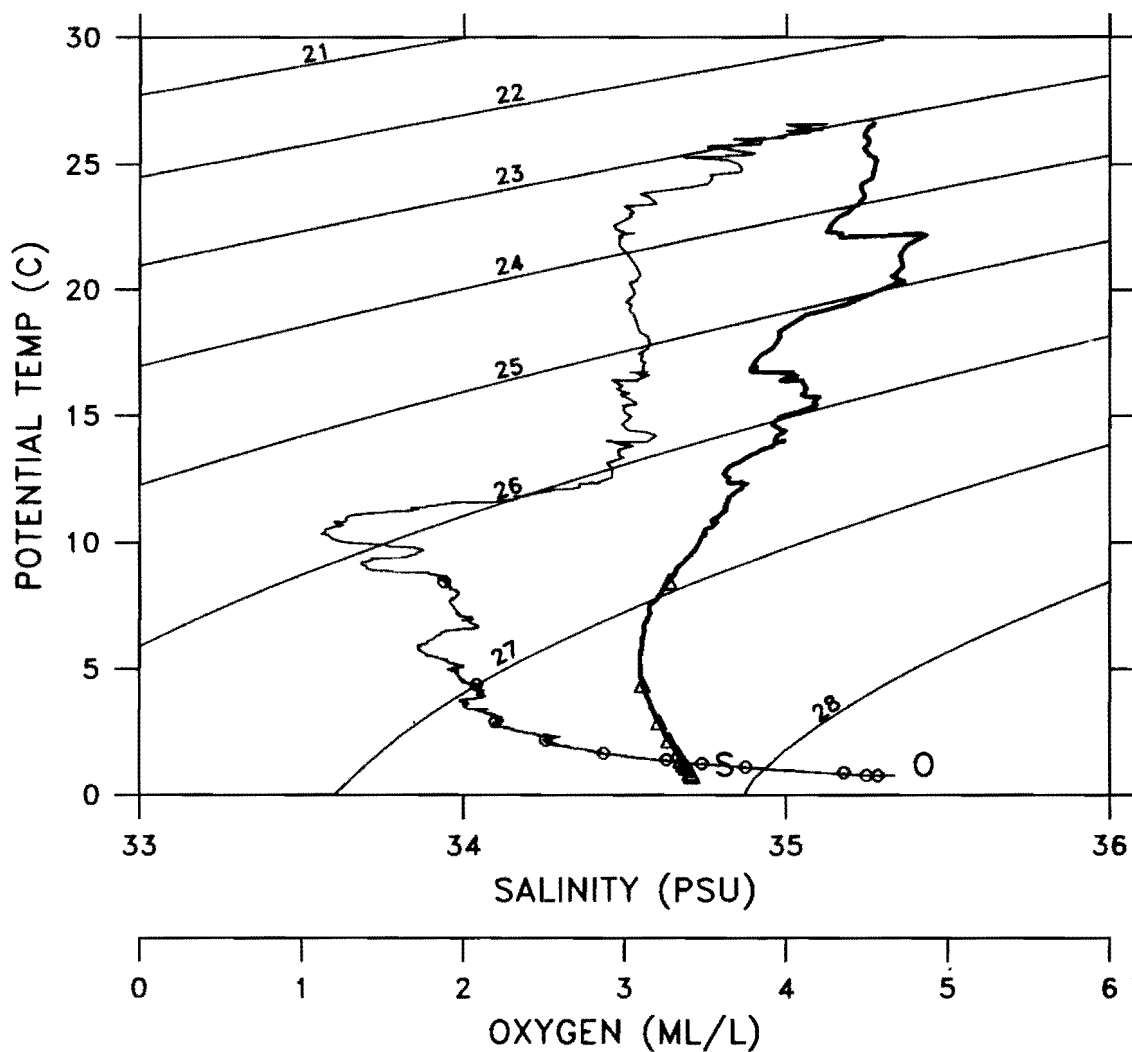


CAST EP1-88-0C-003 DATE 16 MAY 88 TIME 1259 GMT
 LAT 00 00.2N LONG 164 59.8W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 090 T SPD 13 KT VISIBILITY 8
 CLOUD X AMOUNT 2 DRY 26.4 WET 24.0 DEPTH 5791 M

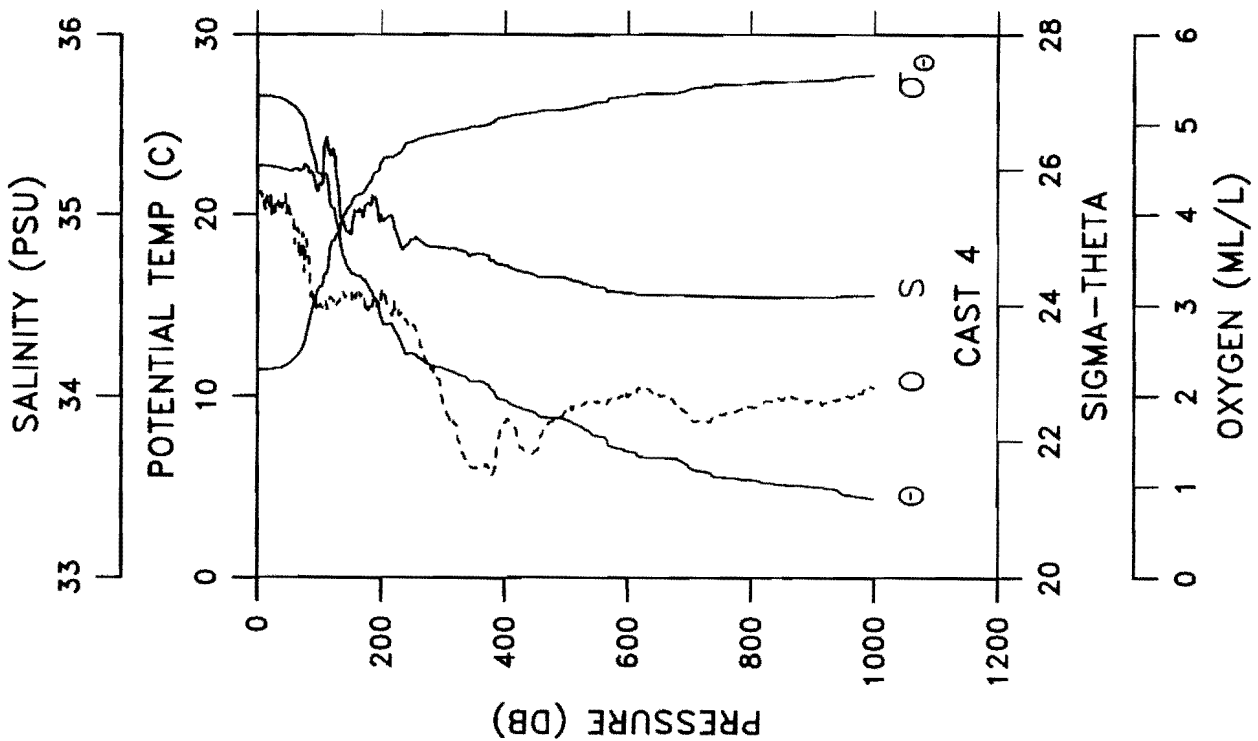


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.607 | 35.264 | 4.10 | 23.044 | 0.000 |
| 10 | 26.613 | 35.266 | 4.21 | 23.043 | 0.048 |
| 20 | 26.606 | 35.266 | 4.09 | 23.045 | 0.096 |
| 30 | 26.535 | 35.254 | 4.03 | 23.059 | 0.145 |
| 40 | 26.401 | 35.246 | 4.08 | 23.095 | 0.192 |
| 50 | 26.221 | 35.220 | 3.89 | 23.132 | 0.240 |
| 60 | 25.951 | 35.254 | 3.94 | 23.242 | 0.287 |
| 70 | 25.325 | 35.262 | 3.62 | 23.442 | 0.333 |
| 80 | 23.733 | 35.231 | 3.24 | 23.897 | 0.375 |
| 90 | 22.371 | 35.125 | 3.00 | 24.210 | 0.414 |
| 100 | 22.100 | 35.174 | 3.03 | 24.324 | 0.451 |
| 110 | 21.855 | 35.410 | 3.07 | 24.571 | 0.486 |
| 120 | 20.253 | 35.340 | 2.94 | 24.955 | 0.518 |
| 130 | 19.082 | 35.081 | 3.05 | 25.063 | 0.547 |
| 140 | 17.276 | 34.904 | 3.14 | 25.375 | 0.575 |
| 150 | 16.719 | 34.955 | 3.10 | 25.547 | 0.601 |
| 160 | 16.599 | 35.014 | 3.10 | 25.621 | 0.625 |
| 170 | 16.456 | 35.042 | 3.06 | 25.676 | 0.649 |
| 180 | 15.948 | 35.062 | 3.01 | 25.808 | 0.672 |
| 190 | 15.414 | 35.091 | 3.00 | 25.951 | 0.694 |
| 200 | 14.615 | 34.968 | 3.03 | 26.032 | 0.715 |
| 250 | 12.368 | 34.856 | 2.78 | 26.407 | 0.806 |
| 300 | 11.557 | 34.811 | 2.05 | 26.527 | 0.886 |
| 301 | 11.515 | 34.811 | 2.04 | 26.534 | 0.888 |

CAST EP1-88-OC -004 DATE 16 MAY 88 TIME 1620 GMT
LAT 00 00.6S LONG 164 54.1W

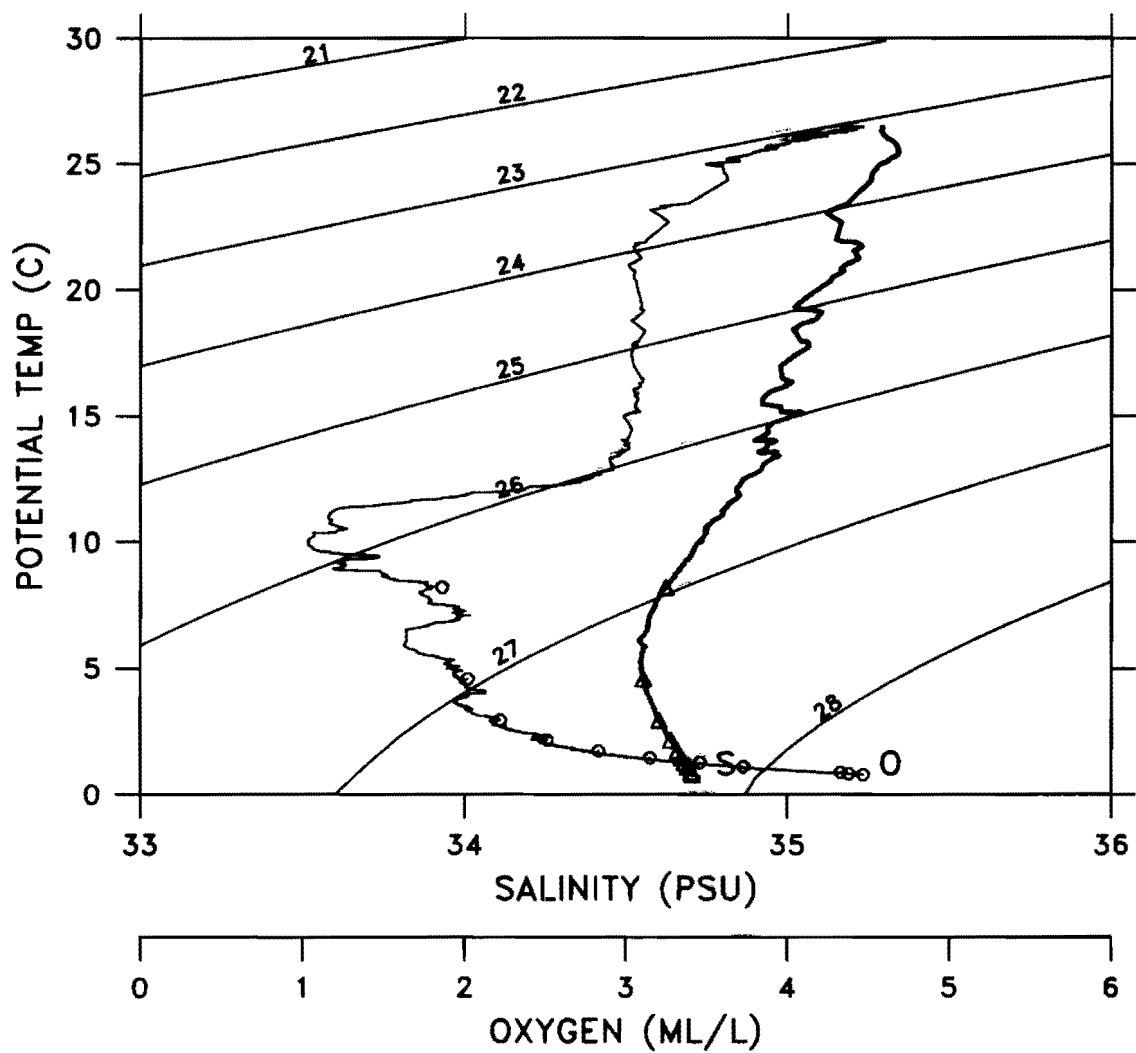


CAST EP1-88-OC -004 DATE 16 MAY 88 TIME 1620 GMT
 LAT 00 00.6S LONG 164 54.1W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 090 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 25.9 WET 24.2 DEPTH 5788 M

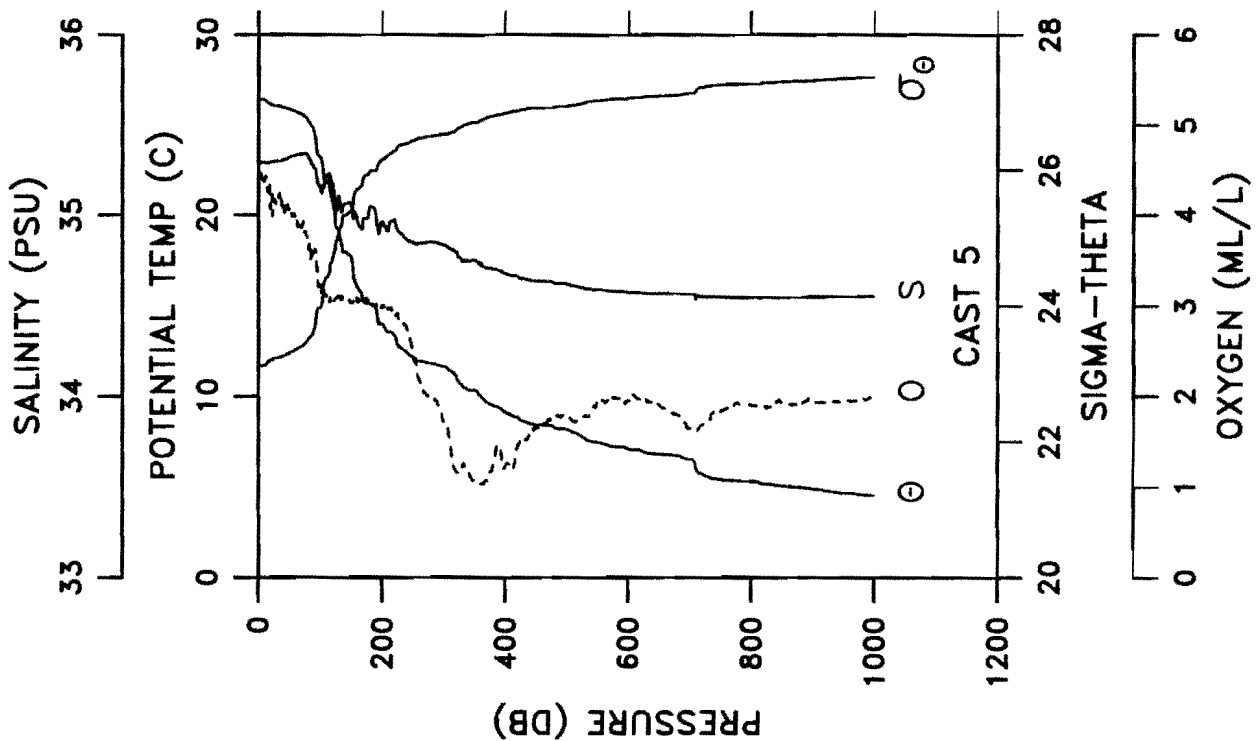


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.585 | 35.273 | 4.25 | 23.057 | 0.000 |
| 10 | 26.586 | 35.272 | 4.20 | 23.056 | 0.048 |
| 20 | 26.562 | 35.269 | 4.08 | 23.062 | 0.096 |
| 30 | 26.501 | 35.263 | 4.12 | 23.077 | 0.144 |
| 40 | 26.405 | 35.254 | 4.09 | 23.100 | 0.192 |
| 50 | 26.237 | 35.245 | 4.15 | 23.146 | 0.240 |
| 60 | 26.002 | 35.253 | 3.67 | 23.225 | 0.287 |
| 70 | 25.582 | 35.244 | 3.65 | 23.349 | 0.333 |
| 80 | 24.691 | 35.268 | 3.72 | 23.639 | 0.377 |
| 90 | 23.367 | 35.219 | 3.10 | 23.995 | 0.418 |
| 100 | 22.268 | 35.171 | 2.99 | 24.273 | 0.456 |
| 110 | 22.260 | 35.413 | 3.06 | 24.460 | 0.492 |
| 120 | 20.362 | 35.355 | 3.08 | 24.938 | 0.525 |
| 130 | 19.317 | 35.152 | 3.03 | 25.057 | 0.555 |
| 140 | 17.587 | 34.943 | 3.12 | 25.331 | 0.584 |
| 150 | 16.887 | 34.891 | 3.11 | 25.458 | 0.610 |
| 160 | 16.634 | 35.013 | 3.15 | 25.611 | 0.634 |
| 170 | 16.410 | 34.983 | 3.06 | 25.641 | 0.658 |
| 180 | 16.014 | 35.060 | 2.97 | 25.792 | 0.682 |
| 190 | 15.411 | 35.095 | 2.99 | 25.955 | 0.703 |
| 200 | 14.347 | 34.993 | 3.14 | 26.108 | 0.724 |
| 250 | 12.375 | 34.862 | 2.81 | 26.410 | 0.815 |
| 300 | 11.522 | 34.813 | 1.88 | 26.535 | 0.895 |
| 350 | 10.822 | 34.781 | 1.20 | 26.637 | 0.971 |
| 400 | 9.772 | 34.721 | 1.71 | 26.773 | 1.043 |
| 450 | 9.061 | 34.669 | 1.40 | 26.849 | 1.108 |
| 500 | 8.684 | 34.650 | 1.86 | 26.895 | 1.171 |
| 550 | 7.795 | 34.602 | 1.94 | 26.992 | 1.232 |
| 600 | 6.930 | 34.571 | 1.99 | 27.091 | 1.287 |
| 650 | 6.596 | 34.561 | 2.02 | 27.128 | 1.339 |
| 700 | 6.047 | 34.552 | 1.77 | 27.193 | 1.390 |
| 750 | 5.523 | 34.551 | 1.79 | 27.257 | 1.436 |
| 800 | 5.363 | 34.548 | 1.88 | 27.274 | 1.481 |
| 900 | 4.992 | 34.548 | 1.96 | 27.318 | 1.568 |
| 1000 | 4.317 | 34.558 | 2.09 | 27.401 | 1.650 |
| 1500 | 2.870 | 34.607 | 2.19 | 27.583 | 1.991 |
| 2000 | 2.177 | 34.637 | 2.51 | 27.667 | 2.272 |
| 2500 | 1.698 | 34.661 | 2.84 | 27.724 | 2.520 |
| 3000 | 1.409 | 34.675 | 3.19 | 27.756 | 2.751 |
| 3500 | 1.244 | 34.683 | 3.47 | 27.774 | 2.974 |
| 4000 | 1.115 | 34.692 | 3.70 | 27.790 | 3.194 |
| 4500 | 0.887 | 34.703 | 4.24 | 27.814 | 3.406 |
| 5000 | 0.781 | 34.708 | 4.48 | 27.825 | 3.610 |
| 5836 | 0.771 | 34.708 | 4.65 | 27.826 | 3.965 |

CAST EP1-88-OC -005 DATE 18 MAY 88 TIME 0152 GMT
LAT 00 04.1N LONG 160 01.2W

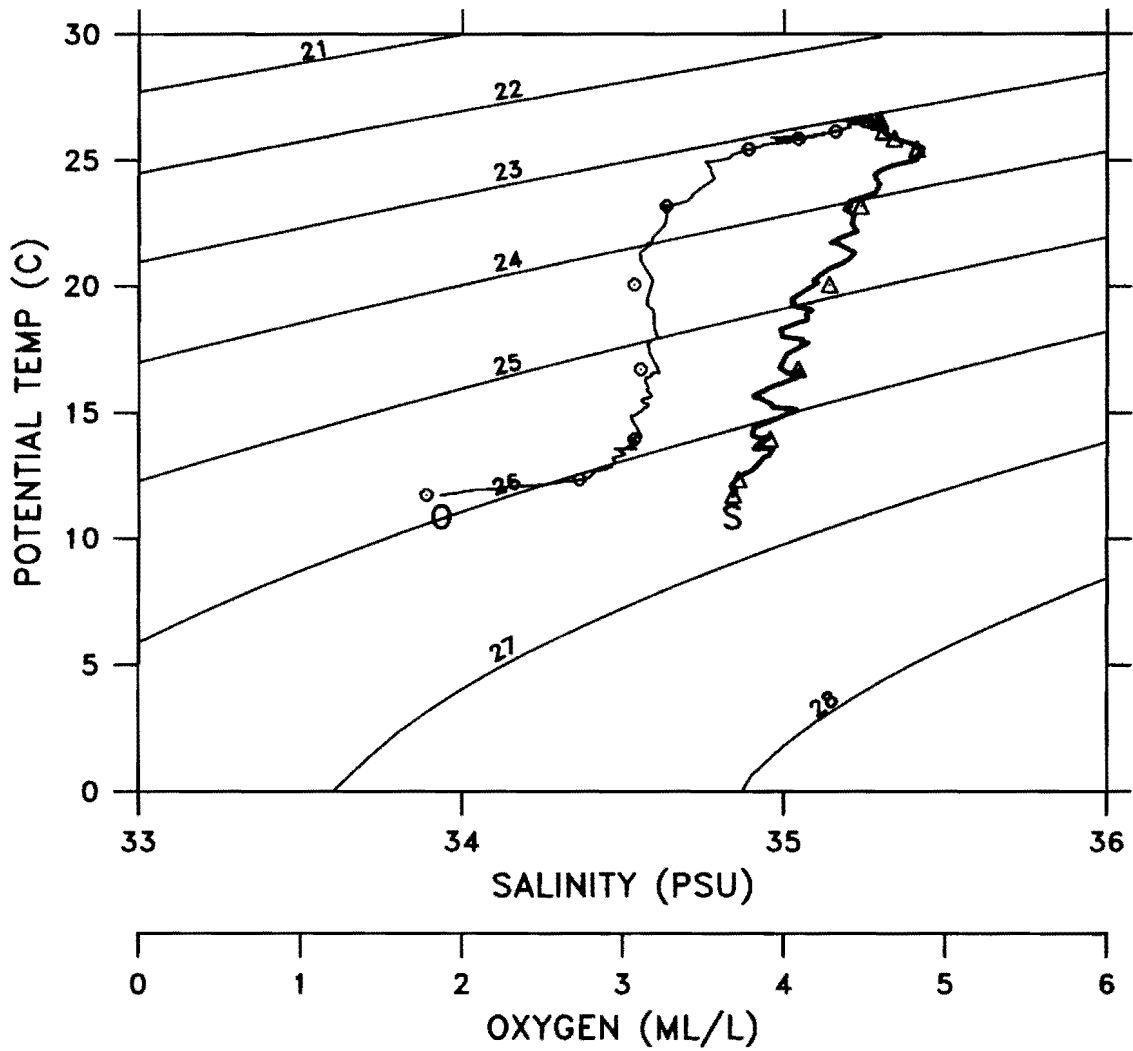


CAST EP1-88-0C-005 DATE 18 MAY 88 TIME 0152 GMT
 LAT 00 04.1N LONG 160 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 095 T SPD 21 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY DR 27.7 WET 25.7 DEPTH 5106 M

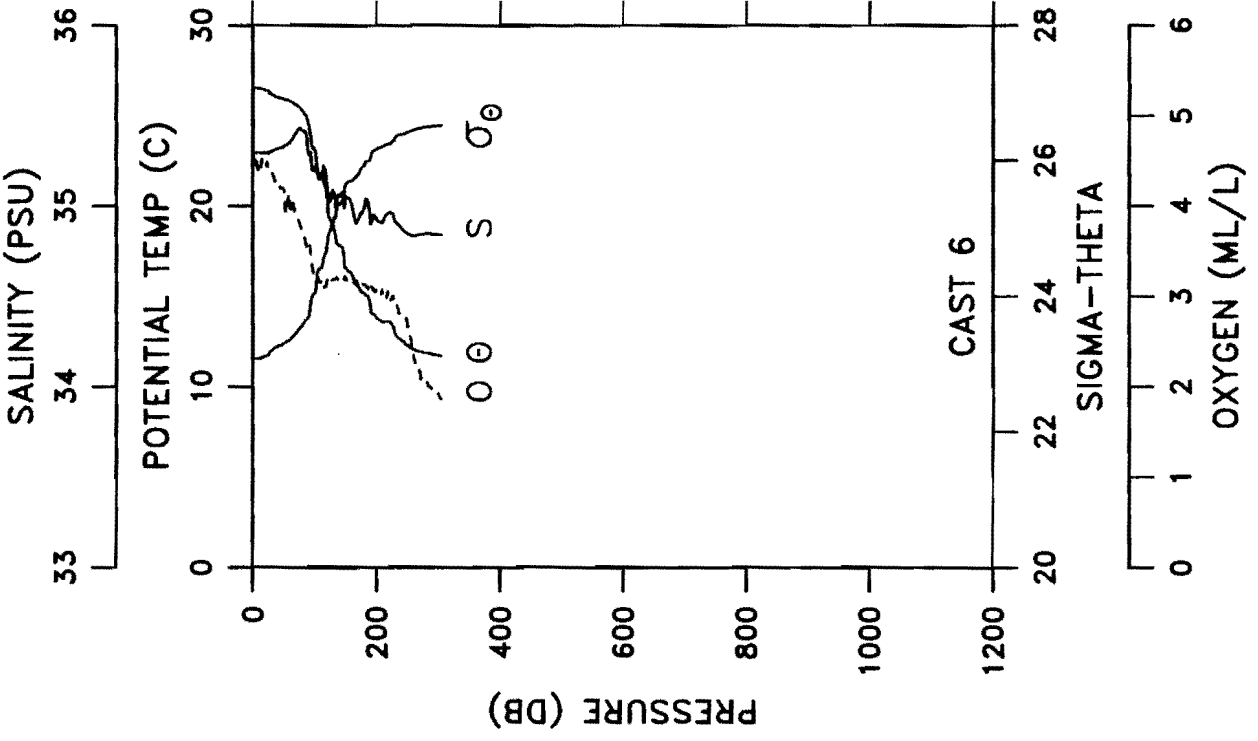


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.439 | 35.291 | 4.46 | 23.117 | 0.000 |
| 10 | 26.400 | 35.293 | 4.39 | 23.131 | 0.047 |
| 20 | 26.137 | 35.295 | 4.10 | 23.215 | 0.094 |
| 30 | 26.074 | 35.300 | 4.20 | 23.239 | 0.141 |
| 40 | 25.996 | 35.305 | 4.14 | 23.267 | 0.187 |
| 50 | 25.896 | 35.320 | 4.07 | 23.309 | 0.233 |
| 60 | 25.761 | 35.333 | 3.97 | 23.361 | 0.279 |
| 70 | 25.615 | 35.338 | 3.86 | 23.410 | 0.324 |
| 80 | 25.258 | 35.328 | 3.69 | 23.512 | 0.369 |
| 90 | 24.643 | 35.264 | 3.60 | 23.651 | 0.412 |
| 100 | 23.275 | 35.158 | 3.25 | 23.976 | 0.453 |
| 110 | 21.875 | 35.216 | 3.12 | 24.418 | 0.490 |
| 120 | 20.737 | 35.174 | 3.05 | 24.699 | 0.524 |
| 130 | 19.115 | 35.107 | 3.10 | 25.075 | 0.555 |
| 140 | 17.961 | 35.060 | 3.07 | 25.329 | 0.583 |
| 150 | 17.734 | 35.067 | 3.05 | 25.390 | 0.610 |
| 160 | 16.054 | 34.964 | 3.04 | 25.708 | 0.634 |
| 170 | 15.277 | 34.980 | 3.07 | 25.897 | 0.657 |
| 180 | 15.135 | 35.045 | 3.06 | 25.978 | 0.678 |
| 190 | 14.911 | 35.000 | 2.99 | 25.992 | 0.699 |
| 200 | 13.988 | 34.964 | 3.00 | 26.163 | 0.718 |
| 250 | 12.213 | 34.853 | 2.53 | 26.434 | 0.806 |
| 300 | 11.645 | 34.836 | 1.73 | 26.529 | 0.886 |
| 350 | 10.335 | 34.751 | 1.06 | 26.700 | 0.961 |
| 400 | 9.147 | 34.680 | 1.24 | 26.845 | 1.028 |
| 450 | 8.459 | 34.639 | 1.66 | 26.921 | 1.090 |
| 500 | 8.206 | 34.623 | 1.80 | 26.947 | 1.150 |
| 550 | 7.477 | 34.591 | 1.93 | 27.029 | 1.208 |
| 600 | 7.131 | 34.576 | 1.95 | 27.066 | 1.263 |
| 650 | 6.848 | 34.570 | 1.91 | 27.101 | 1.316 |
| 700 | 6.533 | 34.567 | 1.65 | 27.142 | 1.369 |
| 750 | 5.419 | 34.549 | 1.82 | 27.268 | 1.415 |
| 800 | 5.302 | 34.548 | 1.91 | 27.281 | 1.460 |
| 900 | 4.899 | 34.549 | 1.99 | 27.330 | 1.546 |
| 1000 | 4.543 | 34.554 | 1.99 | 27.373 | 1.628 |
| 1500 | 2.945 | 34.603 | 2.21 | 27.573 | 1.980 |
| 2000 | 2.143 | 34.640 | 2.48 | 27.672 | 2.260 |
| 2500 | 1.729 | 34.661 | 2.74 | 27.721 | 2.507 |
| 3000 | 1.458 | 34.673 | 3.08 | 27.751 | 2.740 |
| 3500 | 1.267 | 34.682 | 3.38 | 27.772 | 2.966 |
| 4000 | 1.098 | 34.693 | 3.70 | 27.792 | 3.186 |
| 4500 | 0.890 | 34.704 | 4.16 | 27.815 | 3.395 |
| 5000 | 0.808 | 34.708 | 4.39 | 27.823 | 3.601 |
| 5148 | 0.795 | 34.709 | 4.44 | 27.825 | 3.663 |

CAST EP1-88-OC -006 DATE 18 MAY 88 TIME 0429 GMT
LAT 00 00.9S LONG 159 59.9W

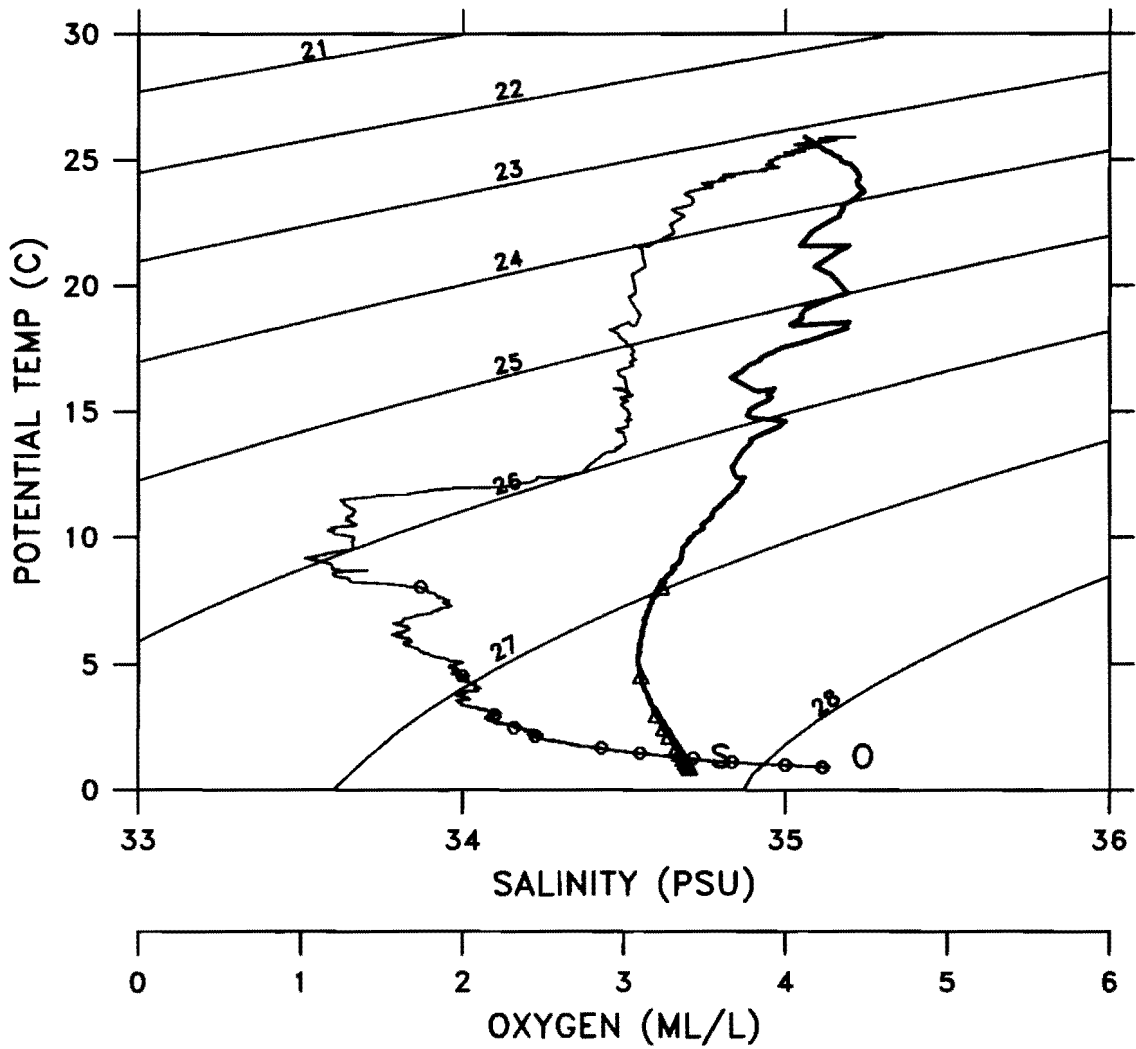


CAST EP1-88-OC --006 DATE 18 MAY 88 TIME 0429 GMT
 LAT 00 00.9S LONG 159 59.9W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 105 T SPD 17 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 26.5 WET 24.4 DEPTH 5161 M

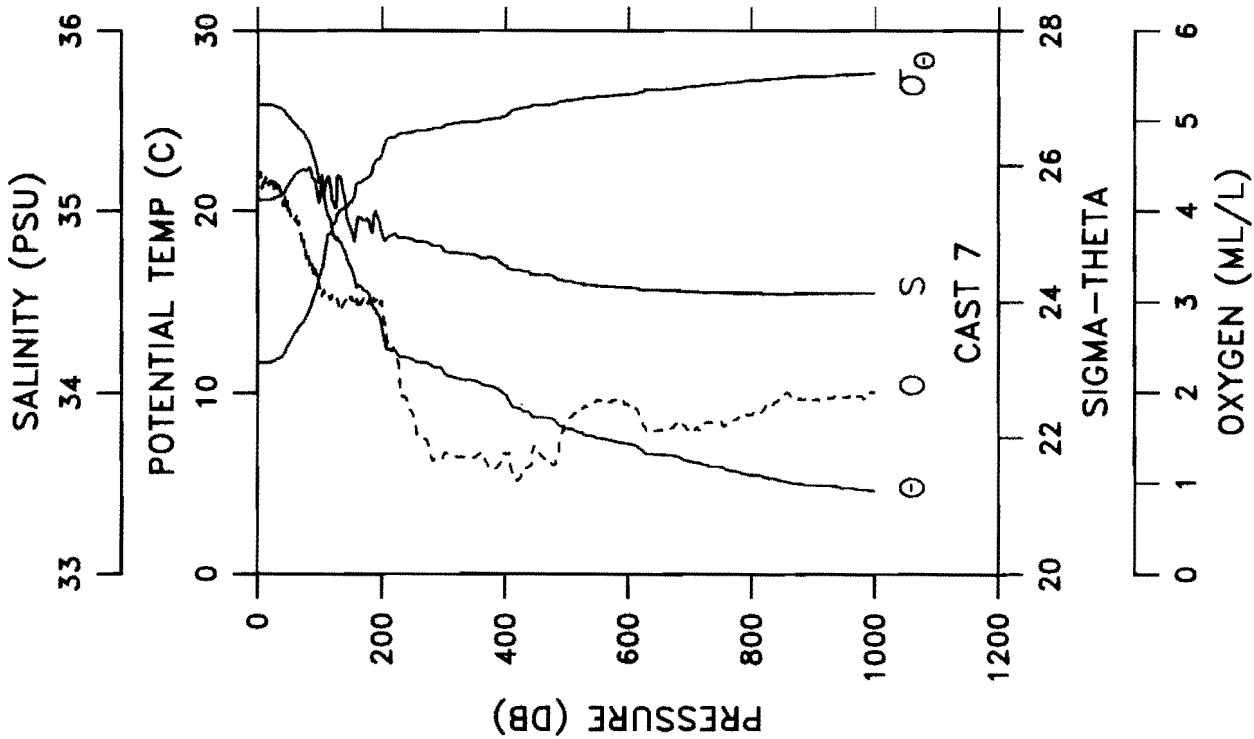


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 26.554 | 35.294 | 4.55 | 23.083 | 0.000 |
| 10 | 26.551 | 35.294 | 4.40 | 23.084 | 0.048 |
| 20 | 26.447 | 35.292 | 4.43 | 23.115 | 0.095 |
| 30 | 26.214 | 35.303 | 4.37 | 23.197 | 0.143 |
| 40 | 26.044 | 35.314 | 4.24 | 23.258 | 0.189 |
| 50 | 25.930 | 35.328 | 4.19 | 23.305 | 0.235 |
| 60 | 25.816 | 35.352 | 4.04 | 23.358 | 0.281 |
| 70 | 25.615 | 35.403 | 3.88 | 23.459 | 0.326 |
| 80 | 25.272 | 35.418 | 3.71 | 23.576 | 0.370 |
| 90 | 24.556 | 35.294 | 3.55 | 23.699 | 0.413 |
| 100 | 23.115 | 35.194 | 3.26 | 24.049 | 0.453 |
| 110 | 21.732 | 35.165 | 3.16 | 24.420 | 0.489 |
| 120 | 20.220 | 35.090 | 3.18 | 24.774 | 0.524 |
| 130 | 18.888 | 35.068 | 3.19 | 25.103 | 0.554 |
| 140 | 17.837 | 35.059 | 3.17 | 25.359 | 0.581 |
| 150 | 16.583 | 35.052 | 3.21 | 25.654 | 0.607 |
| 160 | 16.251 | 35.010 | 3.14 | 25.699 | 0.631 |
| 170 | 15.568 | 34.925 | 3.14 | 25.788 | 0.654 |
| 180 | 15.190 | 34.987 | 3.13 | 25.921 | 0.675 |
| 190 | 14.414 | 34.907 | 3.09 | 26.028 | 0.696 |
| 200 | 13.829 | 34.927 | 3.09 | 26.167 | 0.715 |
| 250 | 12.279 | 34.850 | 2.68 | 26.419 | 0.804 |
| 300 | 11.734 | 34.844 | 1.92 | 26.519 | 0.885 |
| 305 | 11.696 | 34.842 | 1.87 | 26.525 | 0.893 |

CAST EP1-88-OC -007 DATE 19 MAY 88 TIME 0752 GMT
LAT 00 00.0N LONG 153 58.8W

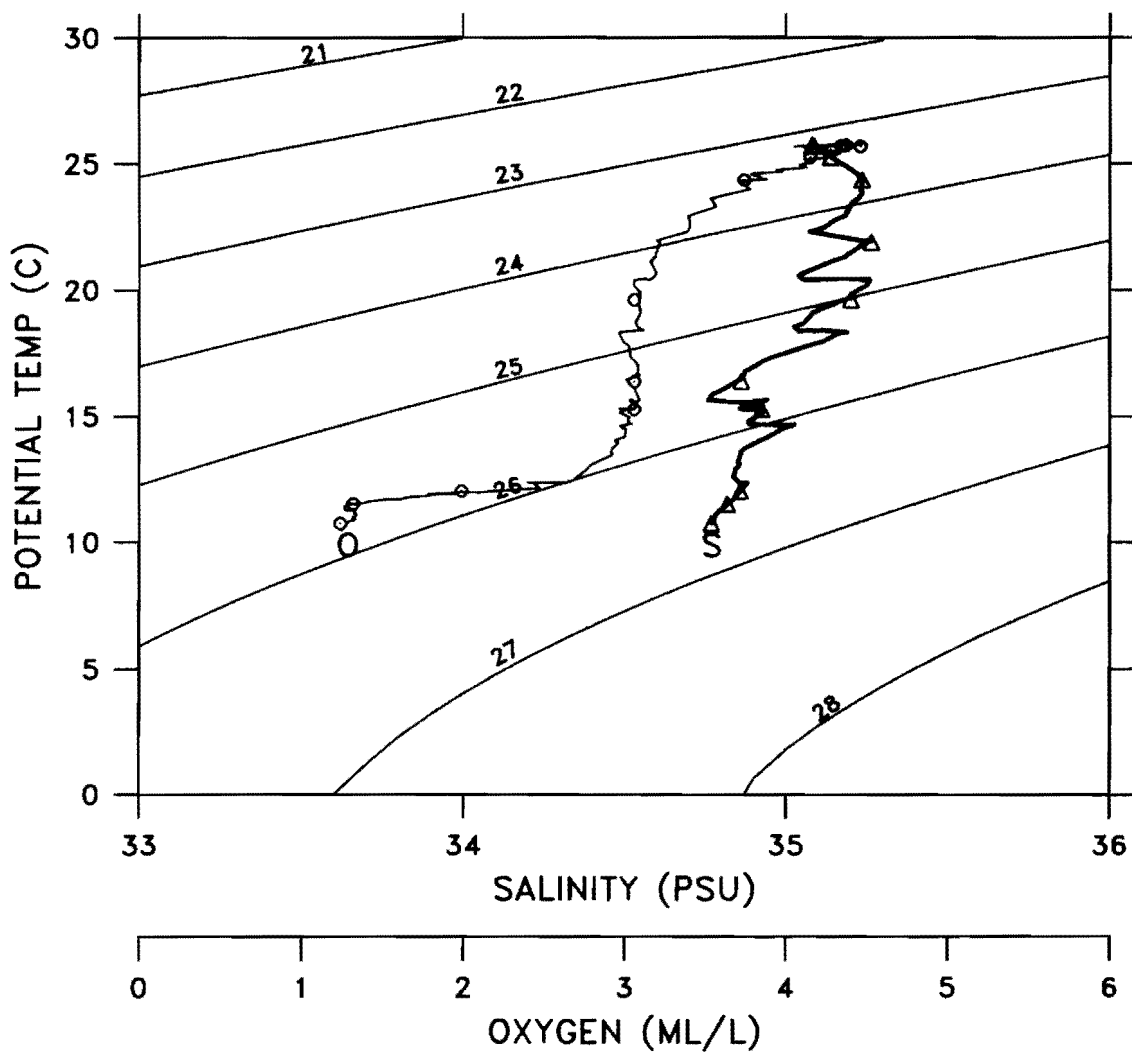


CAST EP1-88-OC -007 DATE 19 MAY 88 TIME 0752 GMT
 LAT 00 00.0N LONG 153 58.8W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 085 T SPD 19 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 25.5 WET 24.2 DEPTH 4778 M

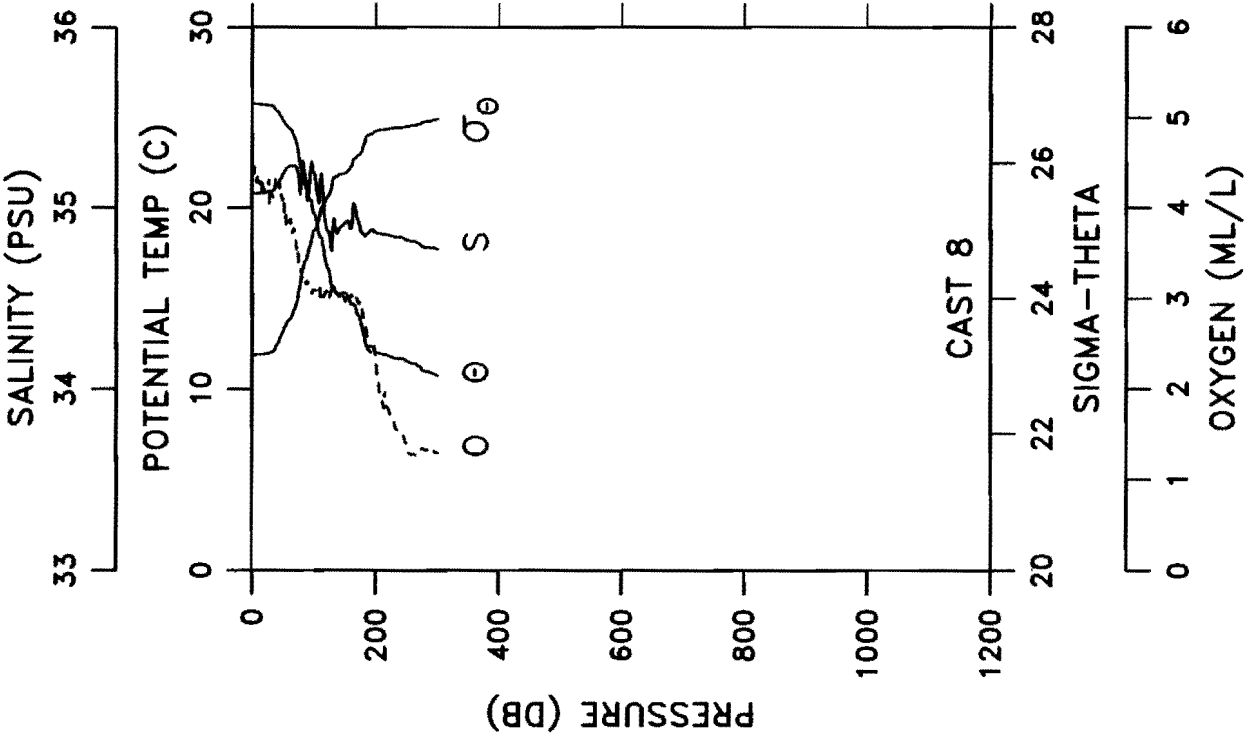


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.894 | 35.059 | 4.41 | 23.113 | 0.000 |
| 10 | 25.895 | 35.060 | 4.33 | 23.114 | 0.047 |
| 20 | 26.895 | 35.061 | 4.30 | 23.114 | 0.095 |
| 30 | 25.771 | 35.075 | 4.31 | 23.163 | 0.142 |
| 40 | 25.641 | 35.090 | 4.11 | 23.214 | 0.189 |
| 50 | 25.234 | 35.144 | 4.02 | 23.380 | 0.235 |
| 60 | 24.822 | 35.201 | 3.90 | 23.549 | 0.280 |
| 70 | 24.470 | 35.222 | 3.76 | 23.671 | 0.323 |
| 80 | 23.955 | 35.225 | 3.55 | 23.827 | 0.365 |
| 90 | 23.013 | 35.176 | 3.30 | 24.065 | 0.405 |
| 100 | 21.552 | 35.058 | 3.15 | 24.388 | 0.442 |
| 110 | 20.264 | 35.152 | 3.05 | 24.809 | 0.476 |
| 120 | 19.058 | 35.061 | 2.98 | 25.054 | 0.506 |
| 130 | 18.439 | 35.184 | 2.98 | 25.305 | 0.534 |
| 140 | 17.844 | 35.077 | 3.00 | 25.371 | 0.561 |
| 150 | 16.962 | 34.908 | 3.03 | 25.453 | 0.587 |
| 160 | 15.805 | 34.914 | 3.03 | 25.727 | 0.612 |
| 170 | 15.696 | 34.946 | 3.03 | 25.776 | 0.635 |
| 180 | 15.431 | 34.944 | 3.02 | 25.834 | 0.657 |
| 190 | 14.605 | 35.001 | 3.03 | 26.059 | 0.678 |
| 200 | 13.772 | 34.895 | 3.01 | 26.154 | 0.698 |
| 250 | 11.845 | 34.844 | 1.79 | 26.498 | 0.781 |
| 300 | 11.183 | 34.790 | 1.30 | 26.580 | 0.859 |
| 350 | 10.672 | 34.760 | 1.28 | 26.648 | 0.933 |
| 400 | 9.890 | 34.700 | 1.33 | 26.737 | 1.004 |
| 450 | 8.664 | 34.652 | 1.35 | 26.899 | 1.069 |
| 500 | 8.027 | 34.614 | 1.68 | 26.967 | 1.130 |
| 550 | 7.491 | 34.588 | 1.91 | 27.025 | 1.187 |
| 600 | 7.184 | 34.579 | 1.86 | 27.061 | 1.242 |
| 650 | 6.567 | 34.565 | 1.58 | 27.136 | 1.295 |
| 700 | 6.198 | 34.559 | 1.60 | 27.179 | 1.345 |
| 750 | 5.879 | 34.553 | 1.68 | 27.215 | 1.394 |
| 800 | 5.435 | 34.547 | 1.76 | 27.265 | 1.440 |
| 900 | 4.888 | 34.548 | 1.92 | 27.330 | 1.527 |
| 1000 | 4.558 | 34.551 | 2.01 | 27.370 | 1.610 |
| 1500 | 2.878 | 34.605 | 2.14 | 27.581 | 1.960 |
| 2000 | 2.121 | 34.641 | 2.45 | 27.674 | 2.238 |
| 2500 | 1.690 | 34.662 | 2.81 | 27.725 | 2.486 |
| 3000 | 1.458 | 34.673 | 3.10 | 27.751 | 2.717 |
| 3500 | 1.268 | 34.684 | 3.36 | 27.774 | 2.943 |
| 4000 | 1.109 | 34.693 | 3.63 | 27.791 | 3.161 |
| 4500 | 0.988 | 34.698 | 3.96 | 27.803 | 3.378 |
| 4850 | 0.898 | 34.703 | 4.28 | 27.813 | 3.528 |

CAST EP1-88-OC -008 DATE 19 MAY 88 TIME 1026 GMT
LAT 00 00.1S LONG 153 57.2W

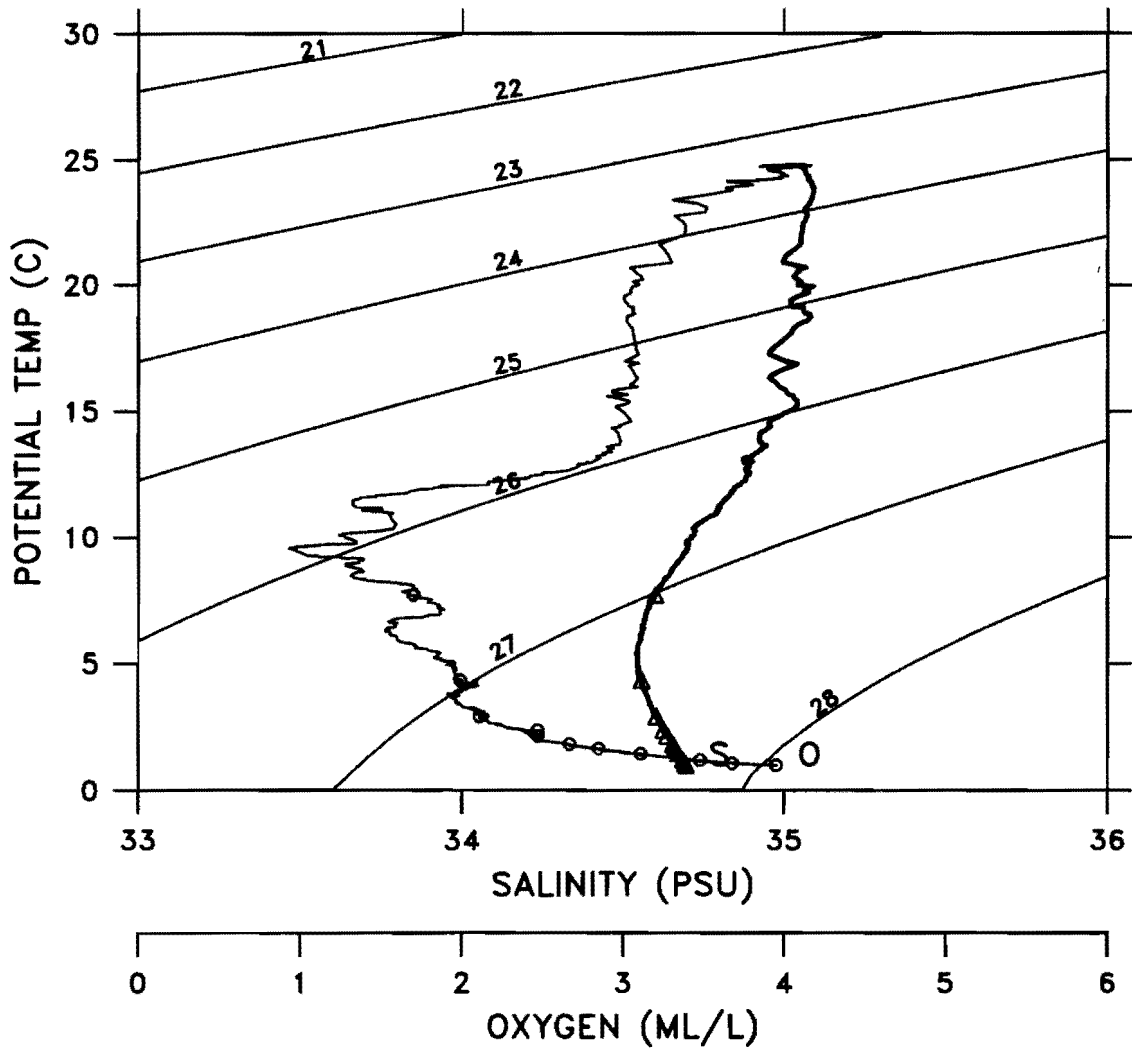


CAST EP1-88-0C -008 DATE 19 MAY 88 TIME 1026 GMT
 LAT 00 00.1S LONG 153 57.2W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 080 T SPD 18 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 25.5 WET 24.0 DEPTH 4786 M

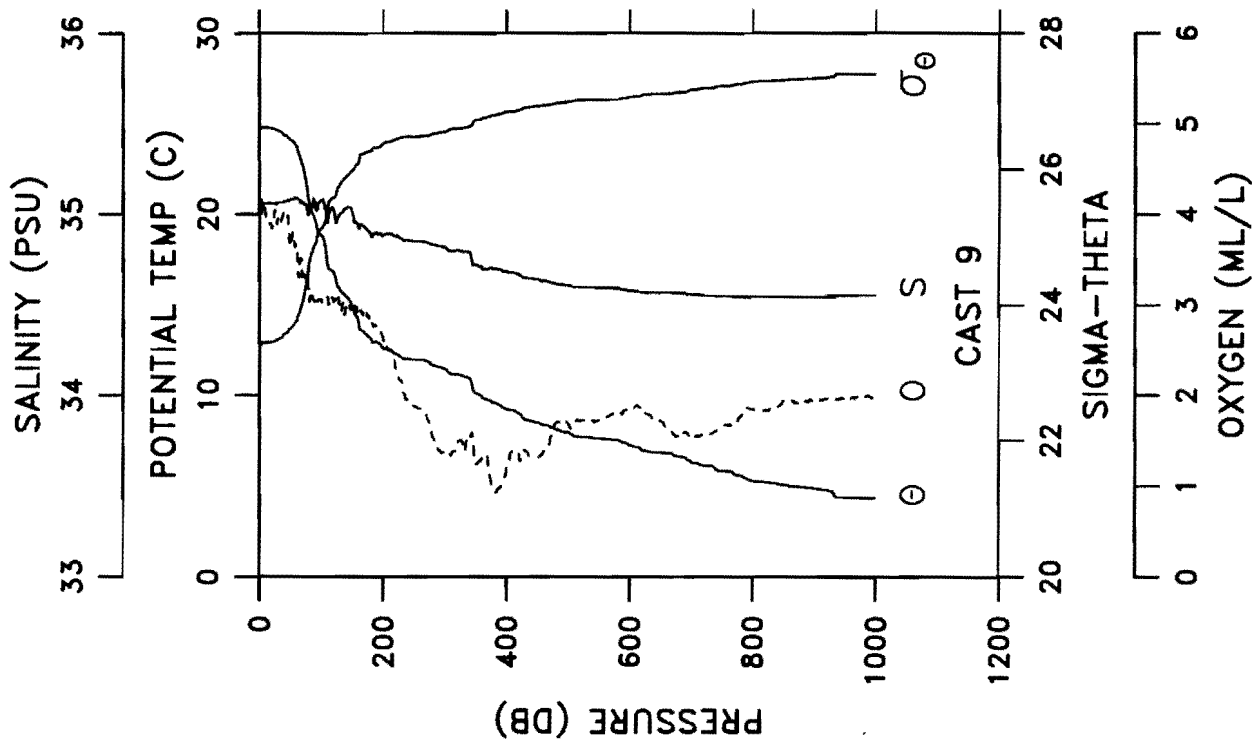


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.764 | 35.080 | 4.46 | 23.169 | 0.000 |
| 10 | 25.754 | 35.080 | 4.32 | 23.172 | 0.047 |
| 20 | 25.727 | 35.084 | 4.20 | 23.183 | 0.094 |
| 30 | 25.681 | 35.089 | 4.18 | 23.202 | 0.141 |
| 40 | 25.375 | 35.126 | 4.31 | 23.323 | 0.187 |
| 50 | 24.881 | 35.188 | 4.12 | 23.521 | 0.232 |
| 60 | 24.427 | 35.230 | 3.83 | 23.690 | 0.275 |
| 70 | 23.814 | 35.236 | 3.66 | 23.876 | 0.316 |
| 80 | 22.063 | 35.183 | 3.26 | 24.340 | 0.355 |
| 90 | 20.565 | 35.038 | 3.19 | 24.642 | 0.389 |
| 100 | 19.683 | 35.192 | 3.08 | 24.993 | 0.421 |
| 110 | 18.427 | 35.112 | 3.12 | 25.253 | 0.450 |
| 120 | 16.899 | 34.891 | 3.08 | 25.455 | 0.476 |
| 130 | 15.564 | 34.865 | 3.05 | 25.744 | 0.501 |
| 140 | 15.264 | 34.873 | 3.04 | 25.816 | 0.523 |
| 150 | 15.309 | 34.915 | 2.99 | 25.839 | 0.546 |
| 160 | 14.707 | 34.885 | 3.03 | 25.948 | 0.567 |
| 170 | 14.151 | 34.942 | 3.00 | 26.111 | 0.587 |
| 180 | 13.104 | 34.856 | 2.80 | 26.261 | 0.606 |
| 190 | 12.356 | 34.866 | 2.41 | 26.417 | 0.623 |
| 200 | 12.068 | 34.862 | 2.33 | 26.470 | 0.640 |
| 250 | 11.543 | 34.821 | 1.39 | 26.536 | 0.718 |
| 300 | 10.737 | 34.770 | 1.29 | 26.644 | 0.794 |
| 301 | 10.730 | 34.769 | 1.29 | 26.645 | 0.795 |

CAST EP1-88-OC -009 DATE 20 MAY 88 TIME 1009 GMT
LAT 00 00.7N LONG 149 58.7W

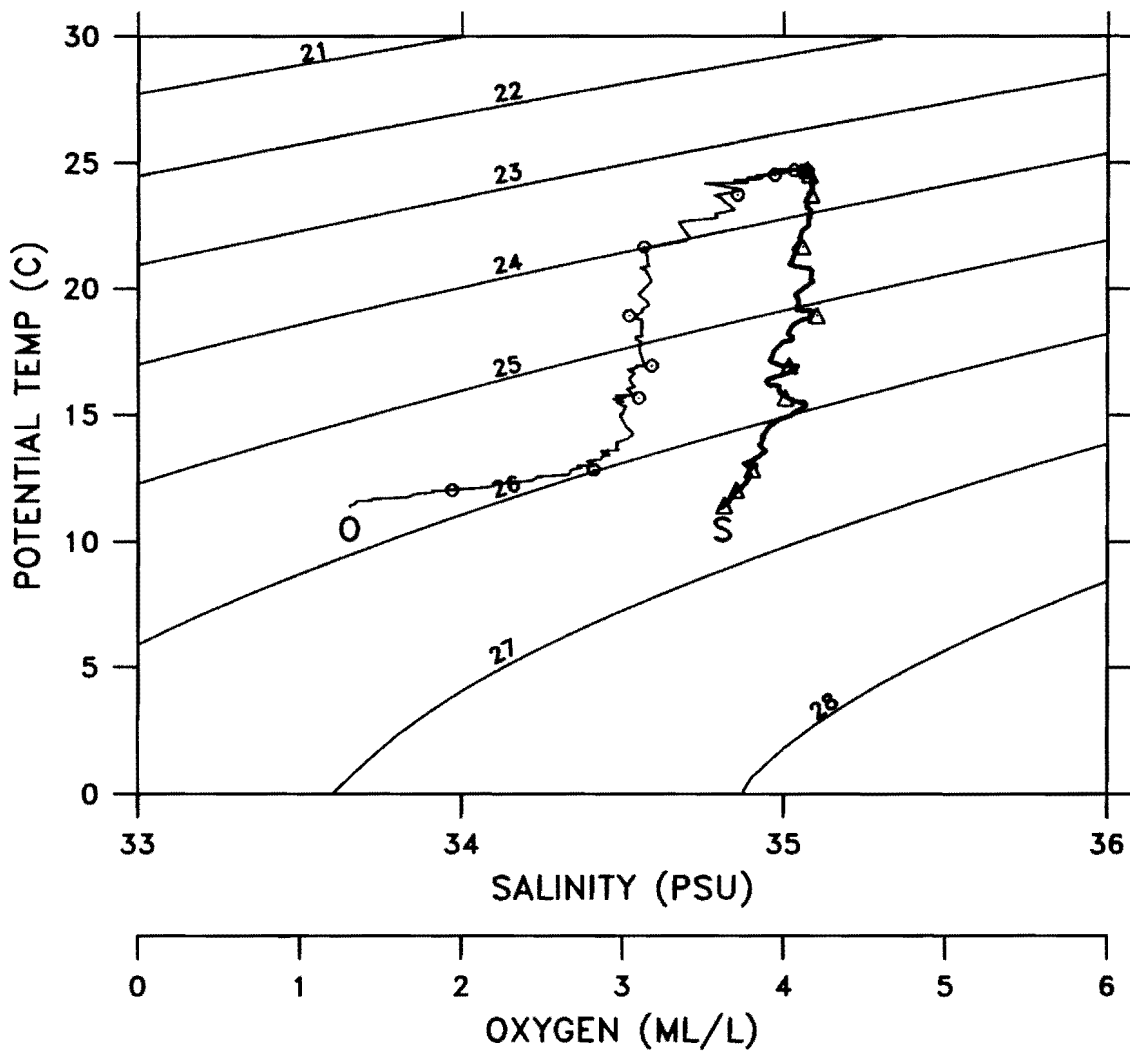


CAST EP1-88-0C-009 DATE 20 MAY 88 TIME 1008 GMT
 LAT 00 00.7N LONG 149 58.7W WEATHER 3 SEA STATE 3
 BAROMETER 11 WIND DIR 070 T SPD 10 KT VISIBILITY 8
 CLOUD 0 AMOUNT 3 DRY 24.1 WET 21.8 DEPTH 4444 M

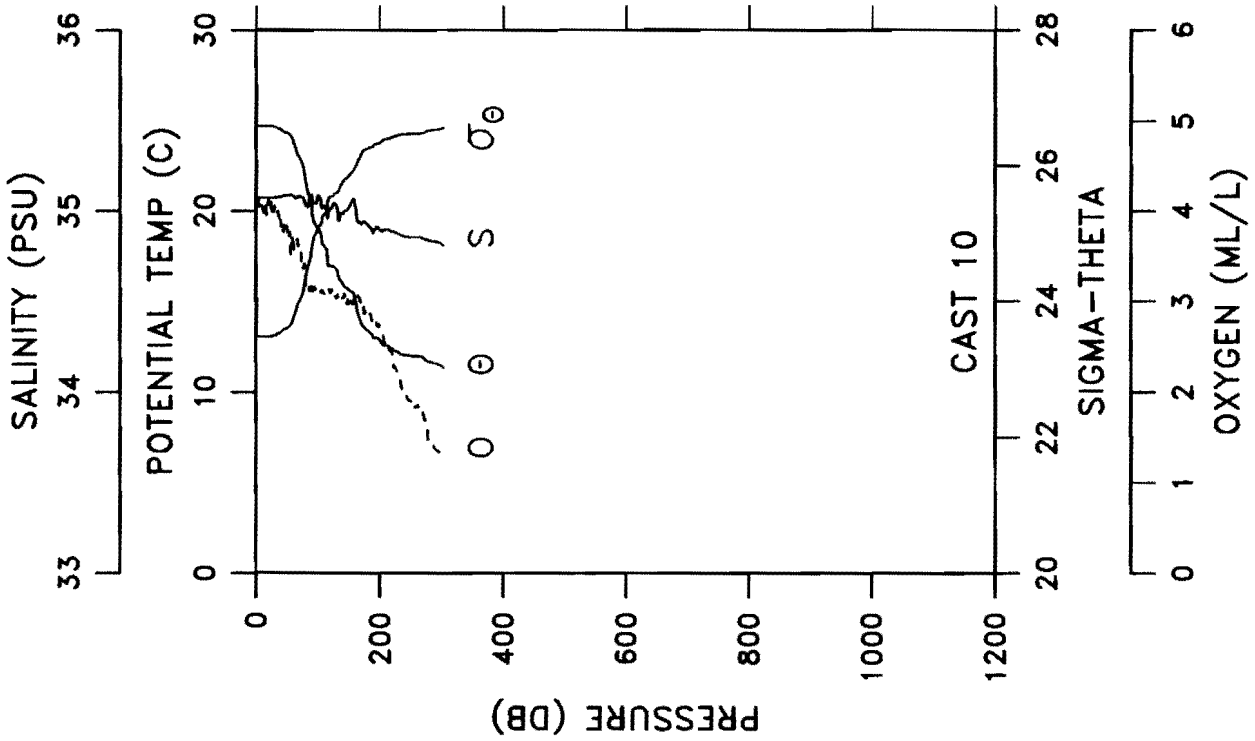


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.775 | 35.004 | 4.16 | 23.414 | 0.000 |
| 10 | 24.775 | 35.062 | 3.99 | 23.458 | 0.044 |
| 20 | 24.739 | 35.061 | 3.84 | 23.469 | 0.089 |
| 30 | 24.626 | 35.064 | 3.96 | 23.504 | 0.133 |
| 40 | 24.358 | 35.073 | 4.02 | 23.592 | 0.176 |
| 50 | 24.129 | 35.084 | 3.68 | 23.669 | 0.219 |
| 60 | 23.796 | 35.091 | 3.68 | 23.772 | 0.261 |
| 70 | 22.757 | 35.070 | 3.32 | 24.058 | 0.301 |
| 80 | 20.700 | 35.066 | 3.04 | 24.627 | 0.337 |
| 90 | 19.713 | 35.077 | 3.05 | 24.897 | 0.369 |
| 100 | 18.862 | 35.079 | 3.07 | 25.118 | 0.399 |
| 110 | 17.270 | 34.952 | 3.10 | 25.414 | 0.427 |
| 120 | 16.823 | 35.029 | 3.04 | 25.580 | 0.451 |
| 130 | 15.864 | 35.002 | 2.95 | 25.781 | 0.475 |
| 140 | 15.508 | 35.032 | 2.98 | 25.884 | 0.497 |
| 150 | 14.996 | 35.012 | 3.00 | 25.983 | 0.518 |
| 160 | 14.157 | 34.925 | 2.97 | 26.097 | 0.538 |
| 170 | 13.477 | 34.926 | 2.91 | 26.240 | 0.556 |
| 180 | 13.185 | 34.890 | 2.85 | 26.271 | 0.574 |
| 190 | 12.979 | 34.896 | 2.78 | 26.318 | 0.592 |
| 200 | 12.628 | 34.883 | 2.62 | 26.377 | 0.609 |
| 250 | 12.001 | 34.851 | 1.88 | 26.474 | 0.691 |
| 300 | 11.483 | 34.816 | 1.33 | 26.544 | 0.771 |
| 350 | 10.111 | 34.721 | 1.24 | 26.716 | 0.846 |
| 400 | 9.234 | 34.684 | 1.23 | 26.834 | 0.913 |
| 450 | 8.490 | 34.642 | 1.31 | 26.918 | 0.976 |
| 500 | 7.935 | 34.609 | 1.70 | 26.977 | 1.035 |
| 550 | 7.611 | 34.596 | 1.73 | 27.014 | 1.092 |
| 600 | 7.263 | 34.583 | 1.86 | 27.054 | 1.149 |
| 650 | 6.834 | 34.570 | 1.72 | 27.103 | 1.202 |
| 700 | 6.312 | 34.559 | 1.52 | 27.164 | 1.254 |
| 750 | 5.832 | 34.551 | 1.66 | 27.219 | 1.303 |
| 800 | 5.283 | 34.545 | 1.84 | 27.281 | 1.349 |
| 900 | 4.875 | 34.546 | 1.94 | 27.330 | 1.435 |
| 1000 | 4.335 | 34.556 | 1.99 | 27.398 | 1.515 |
| 1500 | 2.885 | 34.605 | 2.12 | 27.581 | 1.860 |
| 2000 | 2.169 | 34.637 | 2.43 | 27.667 | 2.137 |
| 2500 | 1.670 | 34.663 | 2.81 | 27.727 | 2.384 |
| 3000 | 1.440 | 34.673 | 3.11 | 27.752 | 2.615 |
| 3500 | 1.202 | 34.686 | 3.43 | 27.780 | 2.839 |
| 4000 | 1.072 | 34.693 | 3.70 | 27.794 | 3.052 |
| 4498 | 0.995 | 34.697 | 3.96 | 27.802 | 3.267 |

CAST EP1-88-OC -010 DATE 20 MAY 88 TIME 1253 GMT
LAT 00 01.3N LONG 149 58.1W

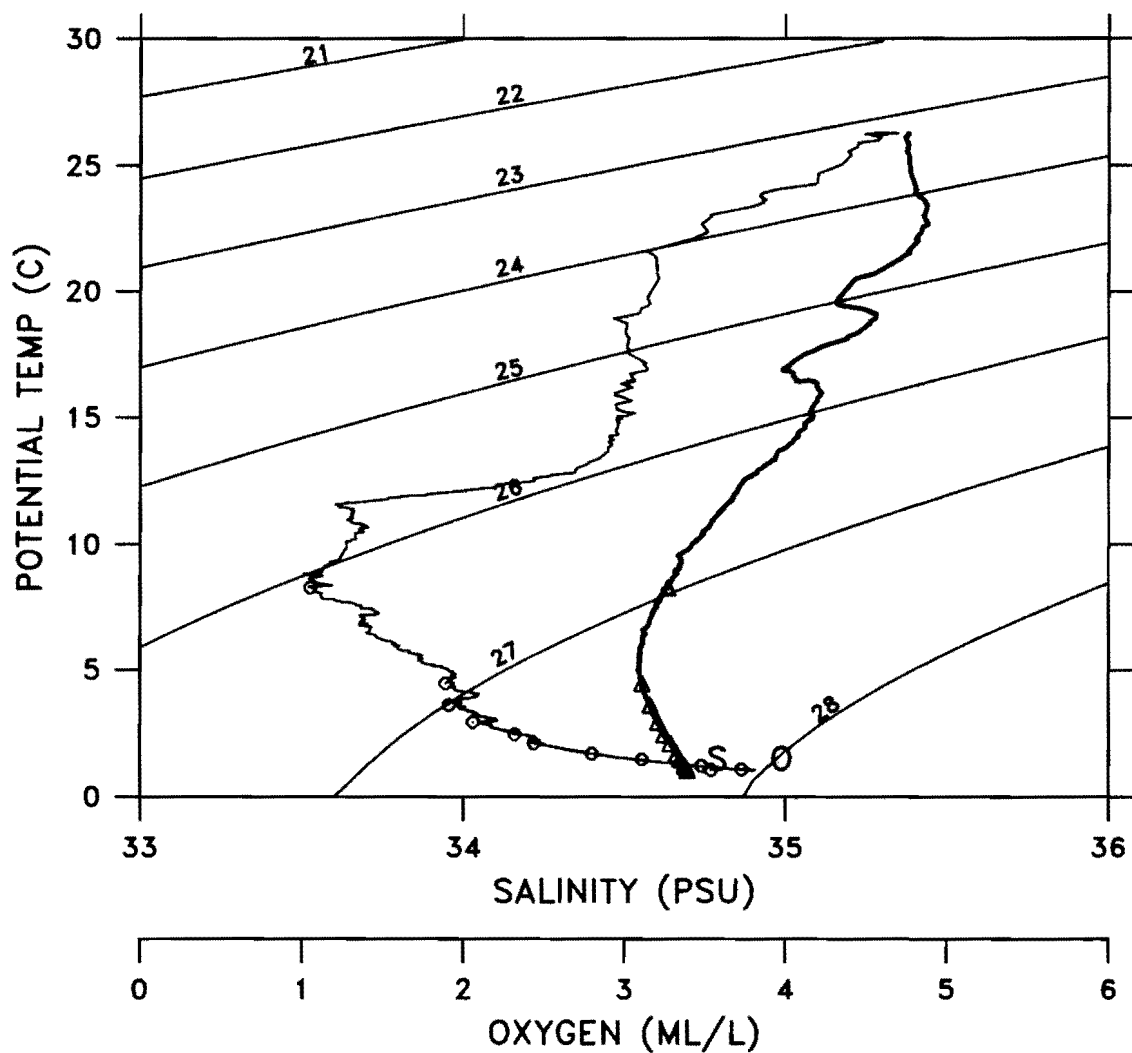


CAST EP1-88-0C -010 DATE 20 MAY 88 TIME 1253 GMT
 LAT 00 01.3N LONG 149 58.1W WEATHER 1 SEA STATE 2
 BAROMETER 09 WIND DIR 080 T SPD 13 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 23.8 WET 22.0 DEPTH 4457 M

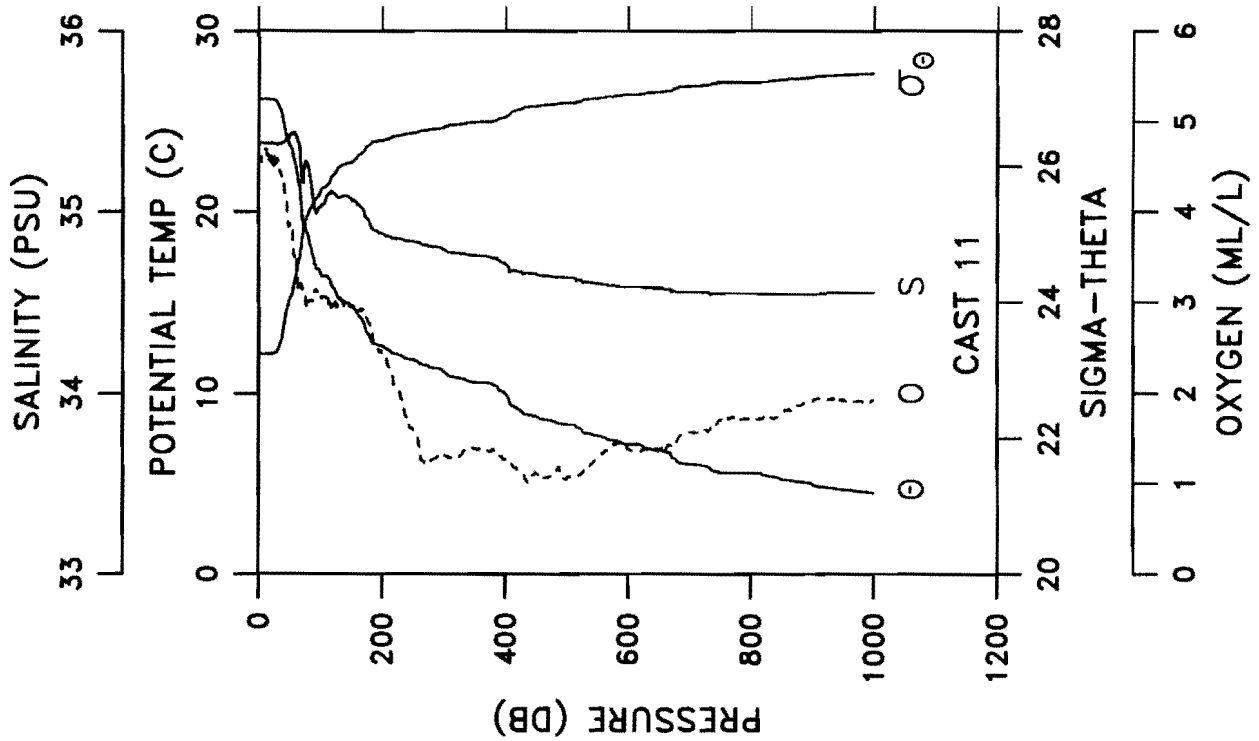


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.727 | 35.073 | 4.13 | 23.481 | 0.000 |
| 10 | 24.729 | 35.072 | 4.04 | 23.480 | 0.044 |
| 20 | 24.727 | 35.072 | 4.12 | 23.480 | 0.088 |
| 30 | 24.679 | 35.073 | 4.06 | 23.496 | 0.132 |
| 40 | 24.535 | 35.077 | 3.89 | 23.542 | 0.176 |
| 50 | 24.358 | 35.085 | 3.85 | 23.600 | 0.219 |
| 60 | 23.927 | 35.082 | 3.74 | 23.727 | 0.262 |
| 70 | 22.996 | 35.080 | 3.57 | 23.997 | 0.302 |
| 80 | 21.606 | 35.028 | 3.12 | 24.351 | 0.340 |
| 90 | 20.272 | 35.089 | 3.18 | 24.759 | 0.374 |
| 100 | 19.116 | 35.087 | 3.13 | 25.059 | 0.405 |
| 110 | 18.050 | 35.025 | 3.08 | 25.280 | 0.433 |
| 120 | 16.926 | 35.010 | 3.08 | 25.541 | 0.459 |
| 130 | 16.771 | 35.035 | 3.03 | 25.596 | 0.483 |
| 140 | 15.974 | 34.986 | 3.03 | 25.744 | 0.507 |
| 150 | 15.629 | 35.016 | 2.94 | 25.845 | 0.529 |
| 160 | 15.091 | 35.032 | 3.00 | 25.977 | 0.551 |
| 170 | 13.811 | 34.923 | 2.97 | 26.168 | 0.570 |
| 180 | 13.382 | 34.926 | 2.90 | 26.259 | 0.589 |
| 190 | 12.951 | 34.886 | 2.82 | 26.315 | 0.607 |
| 200 | 12.846 | 34.896 | 2.71 | 26.344 | 0.624 |
| 250 | 11.999 | 34.854 | 1.91 | 26.477 | 0.706 |
| 300 | 11.461 | 34.822 | 1.34 | 26.553 | 0.786 |
| 303 | 11.333 | 34.807 | 1.31 | 26.565 | 0.790 |

CAST EP1-88-OC -011 DATE 21 MAY 88 TIME 1101 GMT
LAT 00 00.6S LONG 144 58.2W

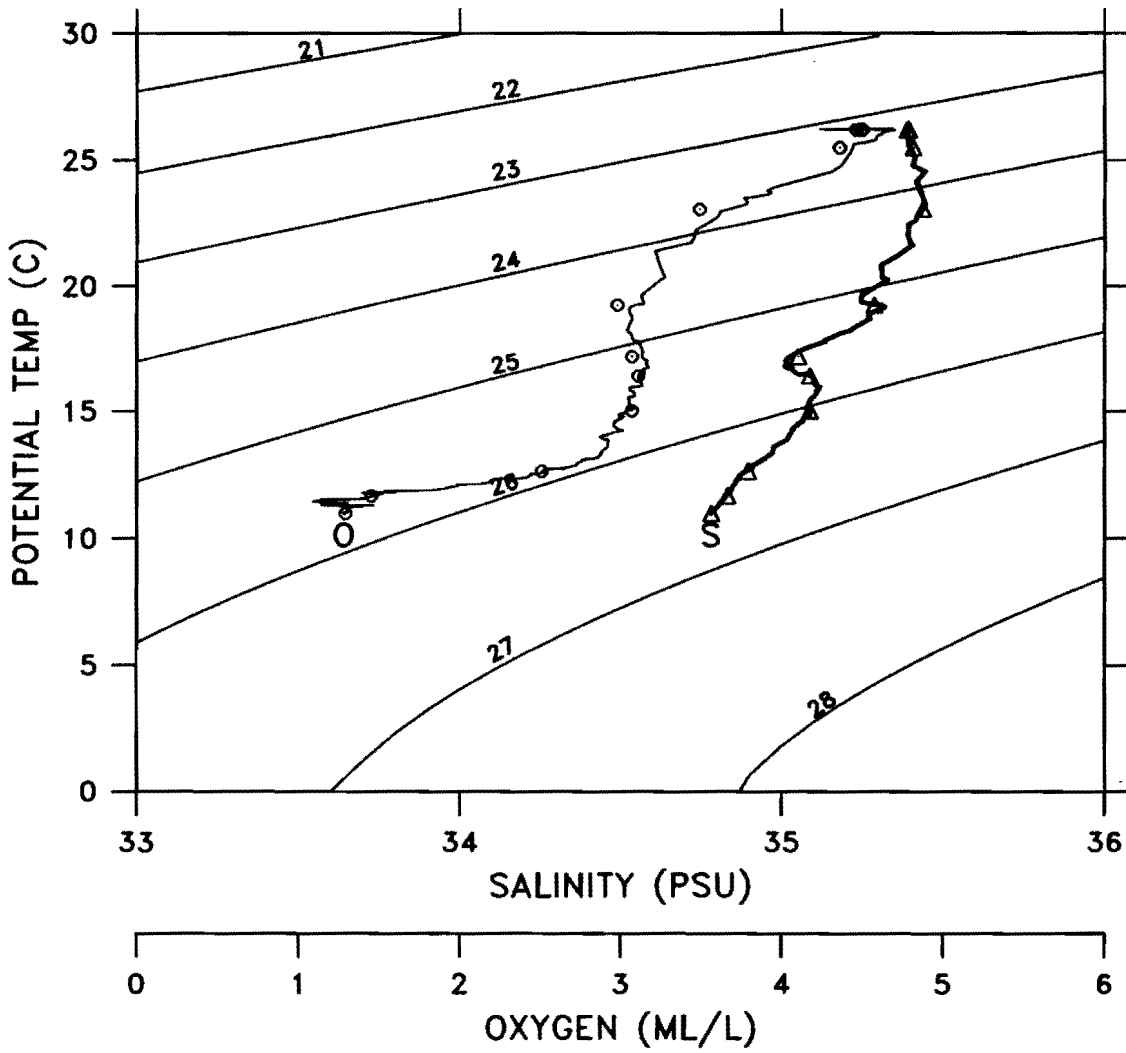


CAST EP1-88-0C -011 DATE 21 MAY 88 TIME 1101 GMT
 LAT 00 00.6S LONG 144 58.2W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 095 T SPD 16 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 25.2 WET 22.3 DEPTH 4230 M

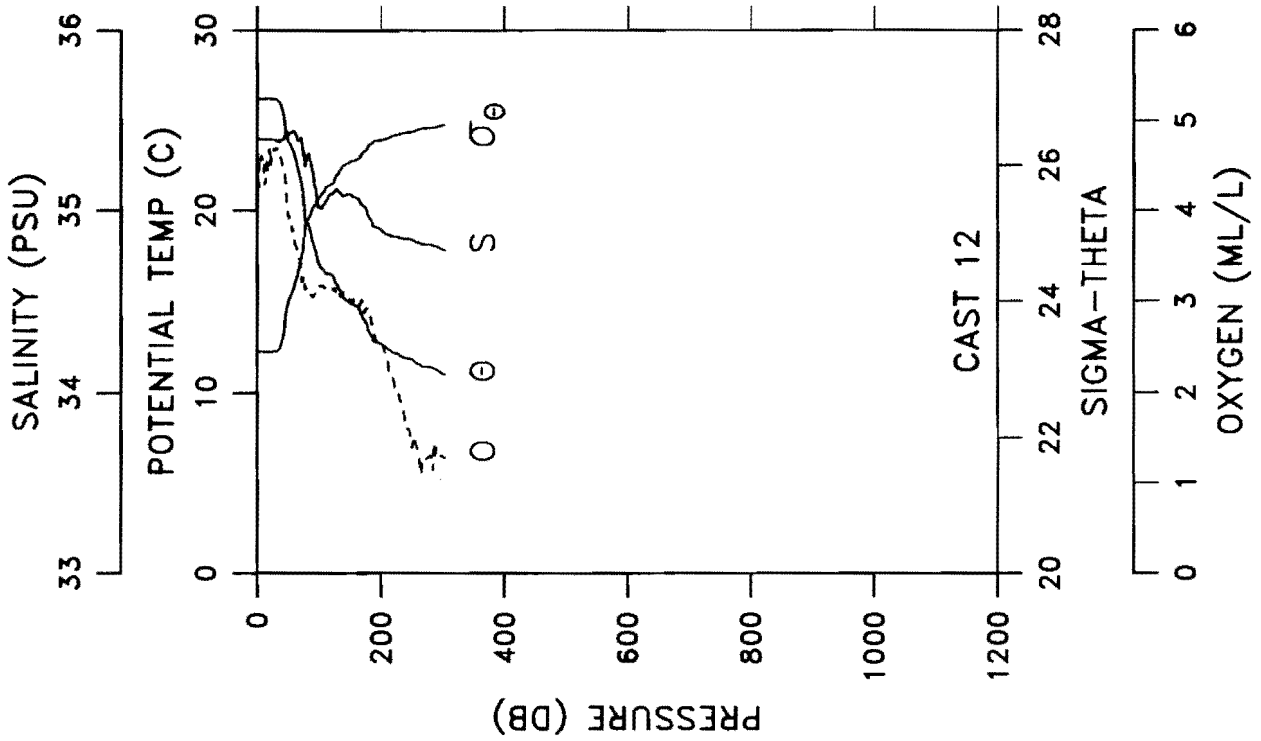


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.252 | 35.381 | 4.57 | 23.244 | 0.000 |
| 10 | 26.251 | 35.381 | 4.69 | 23.244 | 0.046 |
| 20 | 26.226 | 35.380 | 4.51 | 23.251 | 0.092 |
| 30 | 26.100 | 35.371 | 4.59 | 23.284 | 0.139 |
| 40 | 25.039 | 35.384 | 4.35 | 23.621 | 0.183 |
| 50 | 23.697 | 35.421 | 3.86 | 24.051 | 0.224 |
| 60 | 22.582 | 35.425 | 3.49 | 24.378 | 0.261 |
| 70 | 19.751 | 35.165 | 3.14 | 24.954 | 0.295 |
| 80 | 18.738 | 35.263 | 3.02 | 25.290 | 0.323 |
| 90 | 17.159 | 35.018 | 3.13 | 25.491 | 0.349 |
| 100 | 16.630 | 35.022 | 3.04 | 25.620 | 0.373 |
| 110 | 16.447 | 35.083 | 3.01 | 25.709 | 0.397 |
| 120 | 15.849 | 35.107 | 2.97 | 25.866 | 0.419 |
| 130 | 15.210 | 35.076 | 3.01 | 25.985 | 0.440 |
| 140 | 15.001 | 35.085 | 2.96 | 26.038 | 0.461 |
| 150 | 14.861 | 35.071 | 2.96 | 26.058 | 0.481 |
| 160 | 14.317 | 35.038 | 2.96 | 26.150 | 0.500 |
| 170 | 13.862 | 35.006 | 2.91 | 26.222 | 0.519 |
| 180 | 13.085 | 34.936 | 2.74 | 26.325 | 0.537 |
| 190 | 12.698 | 34.894 | 2.54 | 26.372 | 0.554 |
| 200 | 12.608 | 34.880 | 2.44 | 26.379 | 0.571 |
| 250 | 11.850 | 34.838 | 1.60 | 26.492 | 0.653 |
| 300 | 11.187 | 34.791 | 1.31 | 26.579 | 0.731 |
| 350 | 10.628 | 34.759 | 1.38 | 26.655 | 0.805 |
| 400 | 10.017 | 34.712 | 1.27 | 26.725 | 0.877 |
| 450 | 8.737 | 34.658 | 1.12 | 26.892 | 0.941 |
| 500 | 8.288 | 34.638 | 1.05 | 26.946 | 1.002 |
| 550 | 7.674 | 34.606 | 1.30 | 27.013 | 1.061 |
| 600 | 7.180 | 34.588 | 1.37 | 27.069 | 1.116 |
| 650 | 6.877 | 34.578 | 1.37 | 27.104 | 1.170 |
| 700 | 6.083 | 34.557 | 1.57 | 27.192 | 1.220 |
| 750 | 5.625 | 34.549 | 1.70 | 27.243 | 1.268 |
| 800 | 5.592 | 34.550 | 1.72 | 27.248 | 1.314 |
| 900 | 4.966 | 34.544 | 1.91 | 27.318 | 1.402 |
| 1000 | 4.486 | 34.555 | 1.93 | 27.380 | 1.484 |
| 1500 | 2.907 | 34.605 | 2.10 | 27.578 | 1.832 |
| 2000 | 2.090 | 34.643 | 2.47 | 27.678 | 2.110 |
| 2500 | 1.693 | 34.662 | 2.81 | 27.724 | 2.356 |
| 3000 | 1.455 | 34.673 | 3.11 | 27.751 | 2.588 |
| 3500 | 1.215 | 34.686 | 3.45 | 27.778 | 2.812 |
| 4000 | 1.073 | 34.694 | 3.73 | 27.794 | 3.026 |
| 4294 | 1.053 | 34.695 | 3.78 | 27.796 | 3.153 |

CAST EP1-88-OC -012 DATE 21 MAY 88 TIME 1404 GMT
LAT 00 01.3S LONG 144 56.2W



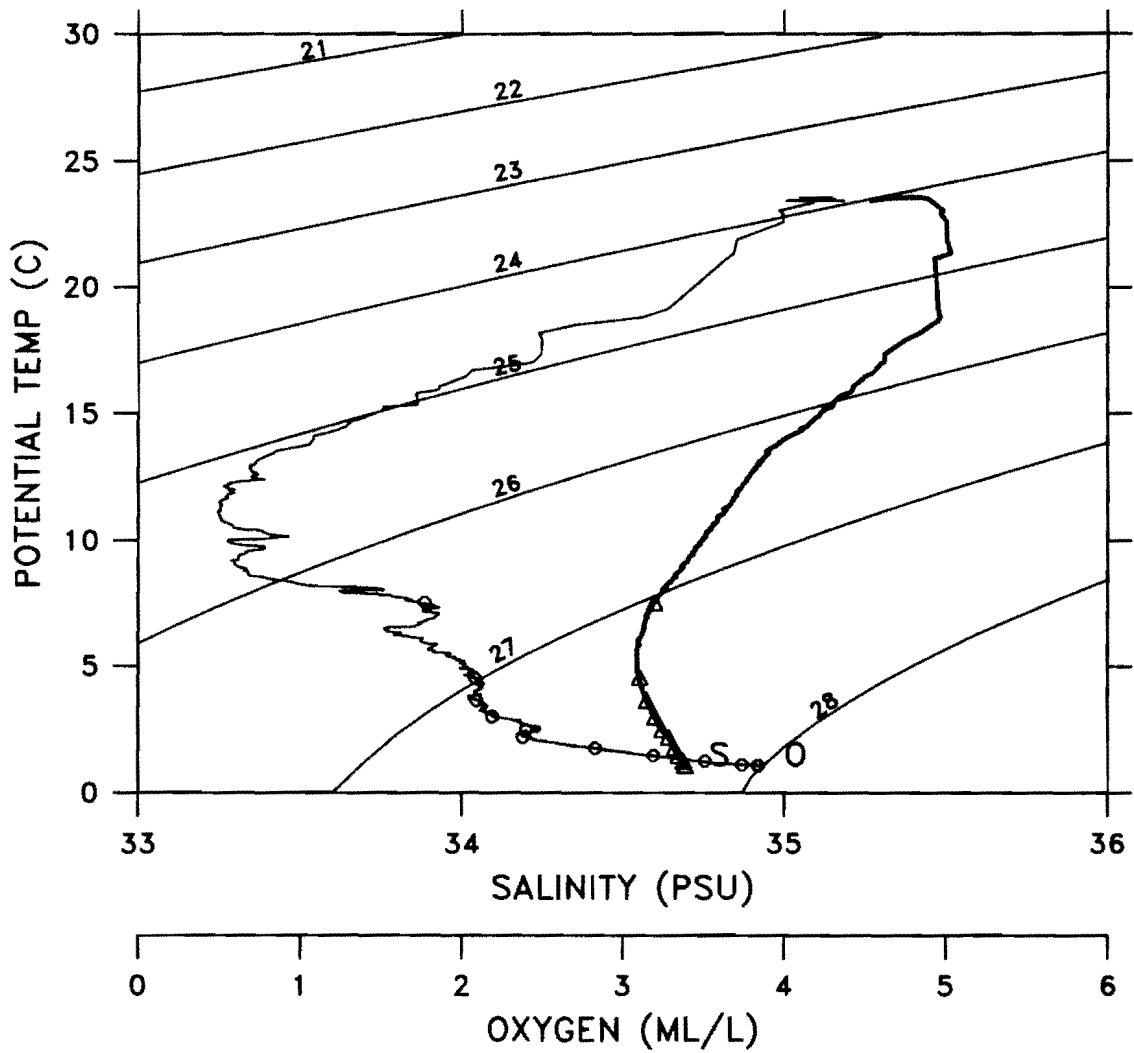
CAST EP1-88-OC -012 DATE 21 MAY 88 TIME 1404 GMT
 LAT 00 01.3S LONG 144 56.2W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 085 T SPD 18 KT VISIBILITY 8
 CLOUD 2 AMOUNT 5 DRY 25.2 WET 22.5 DEPTH 4285 M



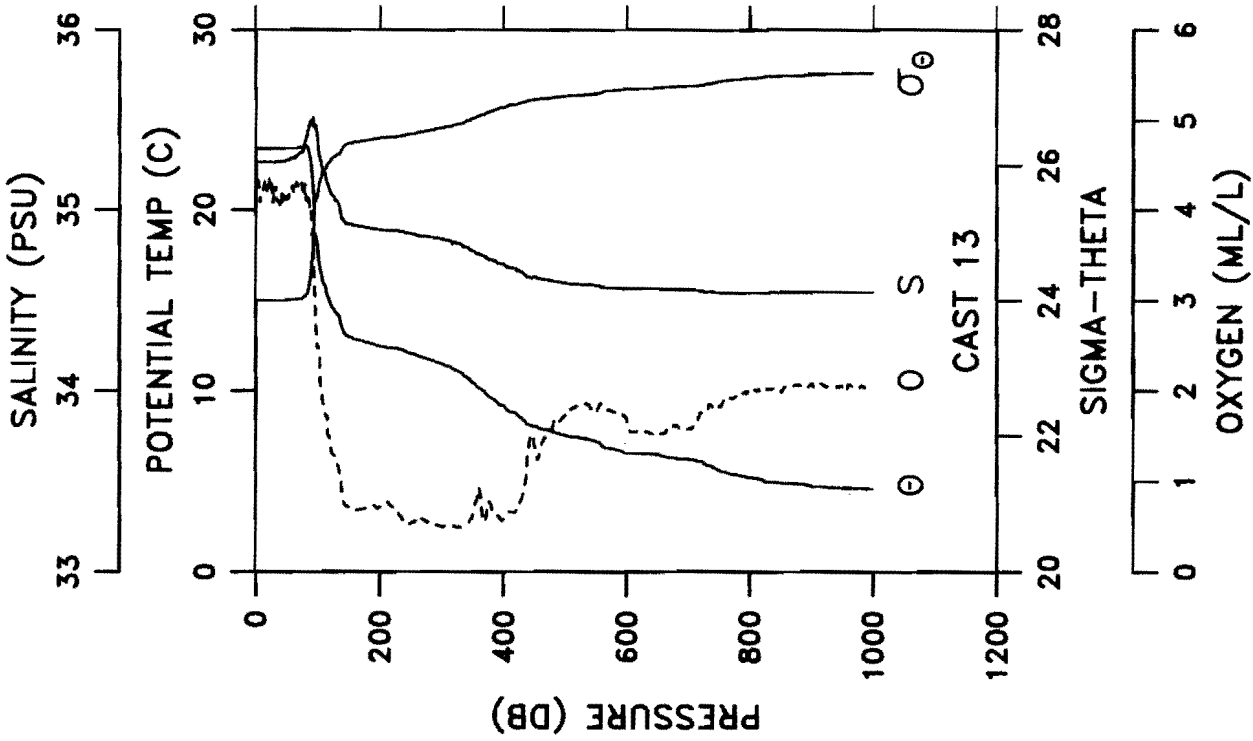
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-θ (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.214 | 35.401 | 4.24 | 23.271 | 0.000 |
| 10 | 26.229 | 35.397 | 4.49 | 23.263 | 0.046 |
| 20 | 26.234 | 35.398 | 4.69 | 23.262 | 0.092 |
| 30 | 26.208 | 35.393 | 4.68 | 23.266 | 0.138 |
| 40 | 25.709 | 35.394 | 4.52 | 23.423 | 0.184 |
| 50 | 23.906 | 35.418 | 3.94 | 23.988 | 0.226 |
| 60 | 23.122 | 35.439 | 3.70 | 24.233 | 0.264 |
| 70 | 21.730 | 35.398 | 3.43 | 24.598 | 0.300 |
| 80 | 19.279 | 35.299 | 3.12 | 25.180 | 0.331 |
| 90 | 18.238 | 35.218 | 3.04 | 25.381 | 0.358 |
| 100 | 17.020 | 35.014 | 3.17 | 25.521 | 0.383 |
| 110 | 16.542 | 35.044 | 3.15 | 25.657 | 0.408 |
| 120 | 16.438 | 35.089 | 3.13 | 25.716 | 0.431 |
| 130 | 15.834 | 35.106 | 3.06 | 25.868 | 0.453 |
| 140 | 15.153 | 35.083 | 3.09 | 26.003 | 0.474 |
| 150 | 14.921 | 35.087 | 3.01 | 26.057 | 0.494 |
| 160 | 14.731 | 35.069 | 3.01 | 26.085 | 0.514 |
| 170 | 14.089 | 35.024 | 2.92 | 26.188 | 0.533 |
| 180 | 13.338 | 34.970 | 2.88 | 26.302 | 0.552 |
| 190 | 12.766 | 34.908 | 2.59 | 26.369 | 0.569 |
| 200 | 12.664 | 34.890 | 2.53 | 26.375 | 0.586 |
| 250 | 11.808 | 34.837 | 1.39 | 26.500 | 0.668 |
| 300 | 11.041 | 34.784 | 1.29 | 26.600 | 0.745 |
| 303 | 10.989 | 34.779 | 1.28 | 26.606 | 0.749 |

CAST EP1-88-OC -013 DATE 22 MAY 88 TIME 1204 GMT

LAT 01 59.3S LONG 139 57.3W

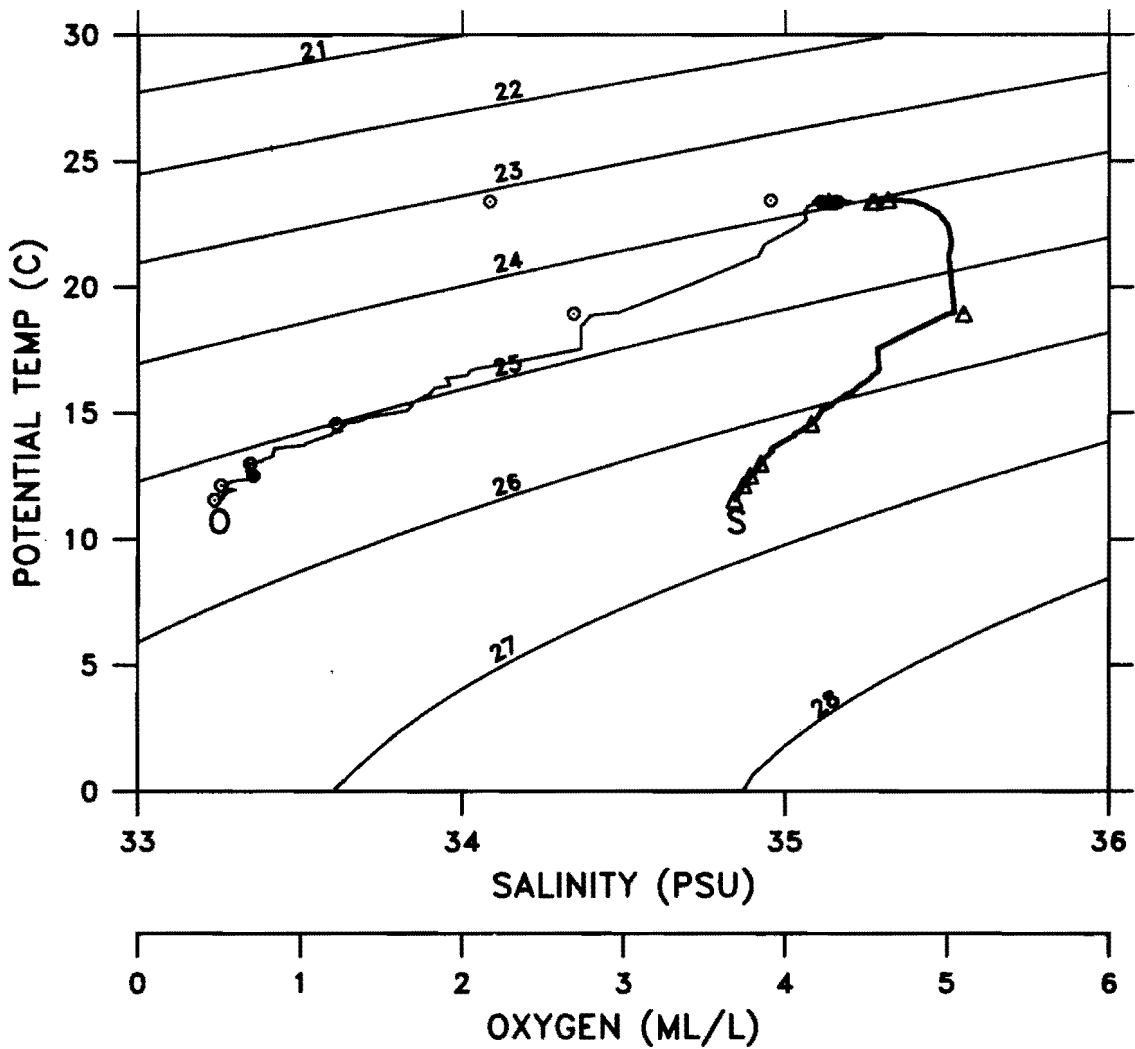


CAST EP1-88-0C -013 DATE 22 MAY 88 TIME 1204 GMT
 LAT 01 59.35 LONG 139 57.3W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 060 T SPD 20 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 23.0 WET 21.3 DEPTH 4322 M

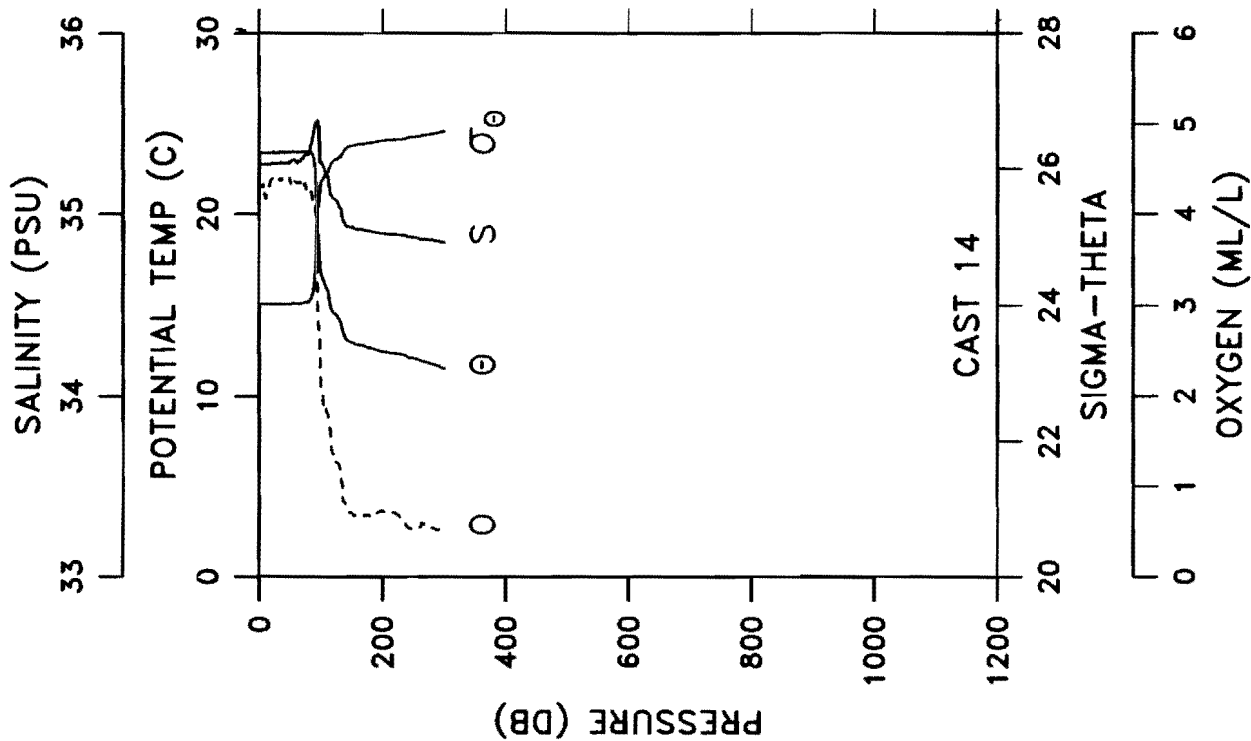


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.444 | 35.270 | 4.33 | 24.012 | 0.000 |
| 10 | 23.440 | 35.270 | 4.15 | 24.012 | 0.039 |
| 20 | 23.441 | 35.269 | 4.31 | 24.011 | 0.078 |
| 30 | 23.446 | 35.268 | 4.27 | 24.009 | 0.117 |
| 40 | 23.445 | 35.271 | 4.03 | 24.011 | 0.156 |
| 50 | 23.466 | 35.283 | 4.19 | 24.014 | 0.195 |
| 60 | 23.481 | 35.293 | 4.23 | 24.018 | 0.234 |
| 70 | 23.511 | 35.320 | 4.24 | 24.029 | 0.273 |
| 80 | 23.554 | 35.387 | 4.28 | 24.068 | 0.312 |
| 90 | 22.249 | 35.502 | 3.85 | 24.531 | 0.349 |
| 100 | 17.929 | 35.379 | 2.50 | 25.581 | 0.377 |
| 110 | 15.885 | 35.211 | 1.83 | 25.937 | 0.399 |
| 120 | 14.860 | 35.105 | 1.40 | 26.085 | 0.420 |
| 130 | 14.336 | 35.056 | 1.23 | 26.160 | 0.439 |
| 140 | 13.436 | 34.953 | 0.84 | 26.269 | 0.457 |
| 150 | 13.008 | 34.920 | 0.72 | 26.330 | 0.475 |
| 160 | 12.864 | 34.914 | 0.69 | 26.354 | 0.492 |
| 170 | 12.804 | 34.909 | 0.69 | 26.362 | 0.509 |
| 180 | 12.681 | 34.902 | 0.72 | 26.381 | 0.526 |
| 190 | 12.599 | 34.896 | 0.74 | 26.393 | 0.543 |
| 200 | 12.473 | 34.889 | 0.71 | 26.412 | 0.560 |
| 250 | 12.085 | 34.866 | 0.54 | 26.470 | 0.642 |
| 300 | 11.514 | 34.838 | 0.50 | 26.555 | 0.721 |
| 350 | 10.454 | 34.772 | 0.62 | 26.696 | 0.796 |
| 400 | 9.177 | 34.702 | 0.58 | 26.857 | 0.863 |
| 450 | 8.049 | 34.631 | 1.39 | 26.977 | 0.923 |
| 500 | 7.553 | 34.600 | 1.73 | 27.026 | 0.980 |
| 550 | 7.212 | 34.583 | 1.76 | 27.061 | 1.035 |
| 600 | 6.573 | 34.567 | 1.69 | 27.136 | 1.087 |
| 650 | 6.478 | 34.566 | 1.54 | 27.148 | 1.138 |
| 700 | 6.244 | 34.560 | 1.58 | 27.174 | 1.188 |
| 750 | 5.619 | 34.547 | 1.83 | 27.242 | 1.236 |
| 800 | 5.216 | 34.544 | 2.00 | 27.288 | 1.280 |
| 900 | 4.752 | 34.544 | 2.08 | 27.342 | 1.365 |
| 1000 | 4.587 | 34.550 | 2.04 | 27.365 | 1.447 |
| 1500 | 3.002 | 34.599 | 2.22 | 27.565 | 1.806 |
| 2000 | 2.184 | 34.641 | 2.40 | 27.669 | 2.094 |
| 2500 | 1.741 | 34.659 | 2.82 | 27.719 | 2.343 |
| 3000 | 1.477 | 34.671 | 3.15 | 27.748 | 2.579 |
| 3500 | 1.223 | 34.686 | 3.50 | 27.778 | 2.804 |
| 4000 | 1.095 | 34.693 | 3.75 | 27.793 | 3.019 |
| 4287 | 1.066 | 34.695 | 3.87 | 27.796 | 3.144 |

CAST EP1-88-OC -014 DATE 22 MAY 88 TIME 1446 GMT
LAT 01 58.7S LONG 139 56.4W

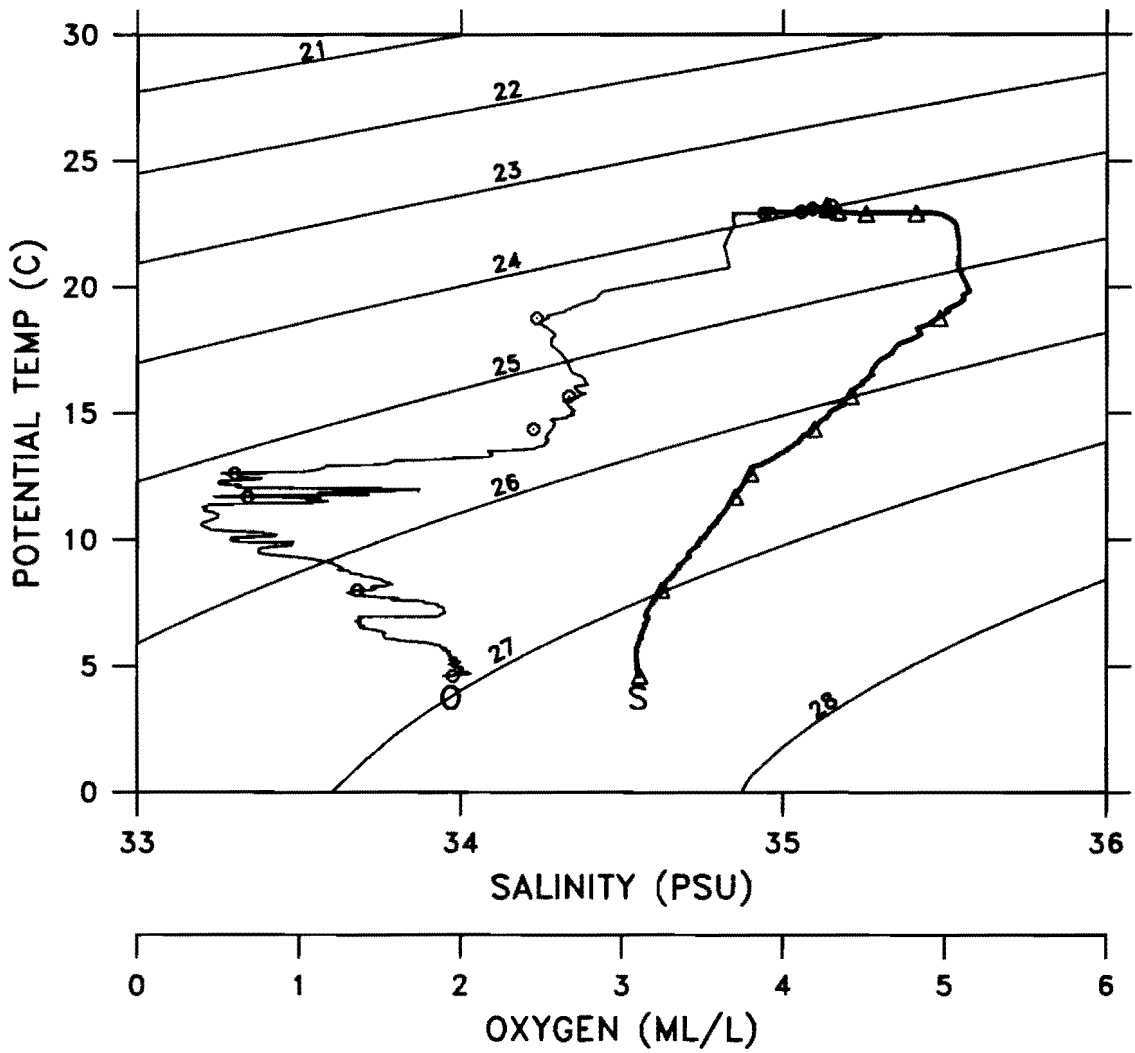


CAST EP1-88-OC -014 DATE 22 MAY 88 TIME 1446 GMT
 LAT 01 58.7S LONG 139 56.4W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 050 T SPD 17 KT VISIBILITY 8
 CLOUD 2 AMOUNT 1 DRY 23.1 WET 21.1 DEPTH 4322 M

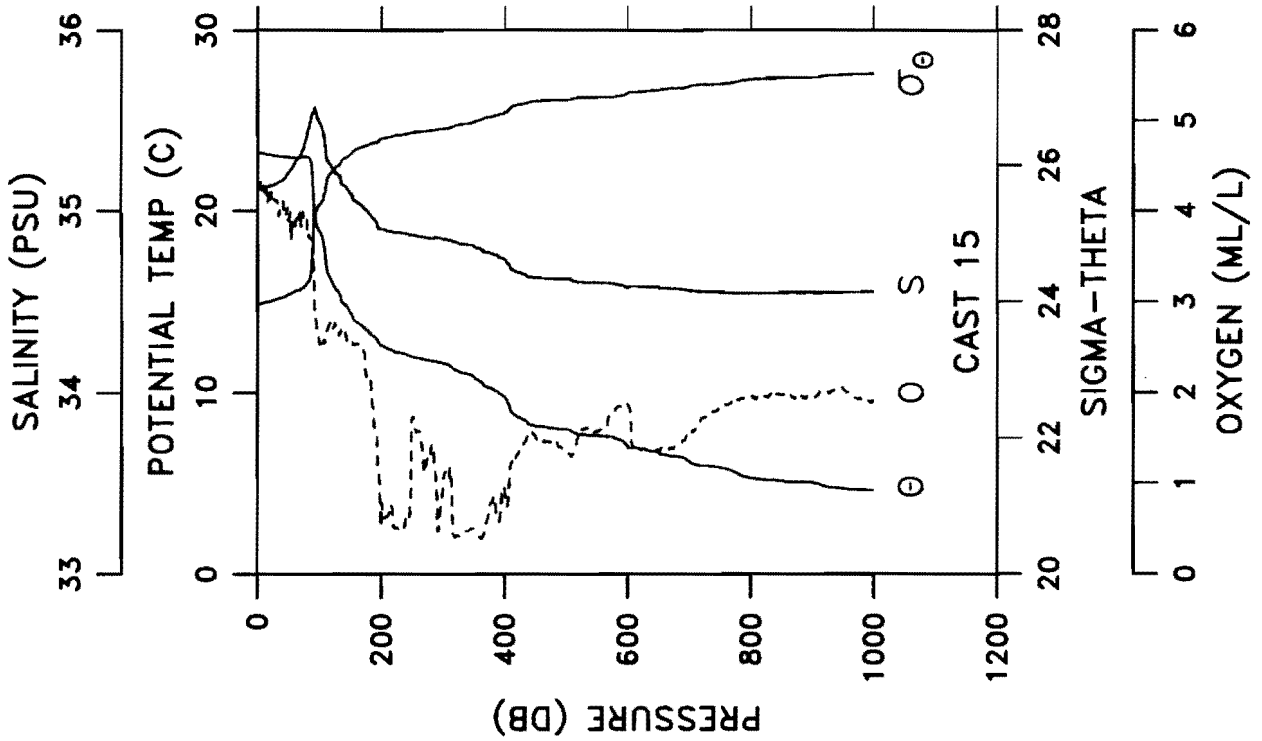


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.406 | 35.274 | 4.30 | 24.025 | 0.000 |
| 10 | 23.400 | 35.275 | 4.17 | 24.028 | 0.039 |
| 20 | 23.407 | 35.277 | 4.38 | 24.027 | 0.078 |
| 30 | 23.407 | 35.278 | 4.41 | 24.028 | 0.116 |
| 40 | 23.416 | 35.282 | 4.39 | 24.028 | 0.155 |
| 50 | 23.428 | 35.290 | 4.40 | 24.031 | 0.194 |
| 60 | 23.437 | 35.295 | 4.35 | 24.032 | 0.233 |
| 70 | 23.451 | 35.306 | 4.37 | 24.036 | 0.272 |
| 80 | 23.464 | 35.335 | 4.29 | 24.054 | 0.311 |
| 90 | 22.683 | 35.490 | 4.13 | 24.398 | 0.349 |
| 100 | 16.756 | 35.290 | 2.08 | 25.796 | 0.377 |
| 110 | 15.900 | 35.213 | 1.82 | 25.935 | 0.399 |
| 120 | 14.638 | 35.086 | 1.35 | 26.118 | 0.419 |
| 130 | 14.232 | 35.042 | 1.22 | 26.171 | 0.438 |
| 140 | 13.229 | 34.939 | 0.81 | 26.300 | 0.456 |
| 150 | 12.978 | 34.926 | 0.71 | 26.341 | 0.473 |
| 160 | 12.854 | 34.916 | 0.68 | 26.358 | 0.490 |
| 170 | 12.801 | 34.913 | 0.68 | 26.366 | 0.507 |
| 180 | 12.676 | 34.906 | 0.66 | 26.385 | 0.524 |
| 190 | 12.579 | 34.899 | 0.70 | 26.399 | 0.541 |
| 200 | 12.468 | 34.893 | 0.74 | 26.416 | 0.557 |
| 250 | 12.113 | 34.874 | 0.53 | 26.470 | 0.640 |
| 300 | 11.554 | 34.846 | 0.50 | 26.554 | 0.719 |
| 301 | 11.548 | 34.845 | 0.50 | 26.555 | 0.720 |

CAST EP1-88-OC -015 DATE 22 MAY 88 TIME 2314 GMT
LAT 01 30.3S LONG 139 59.0W

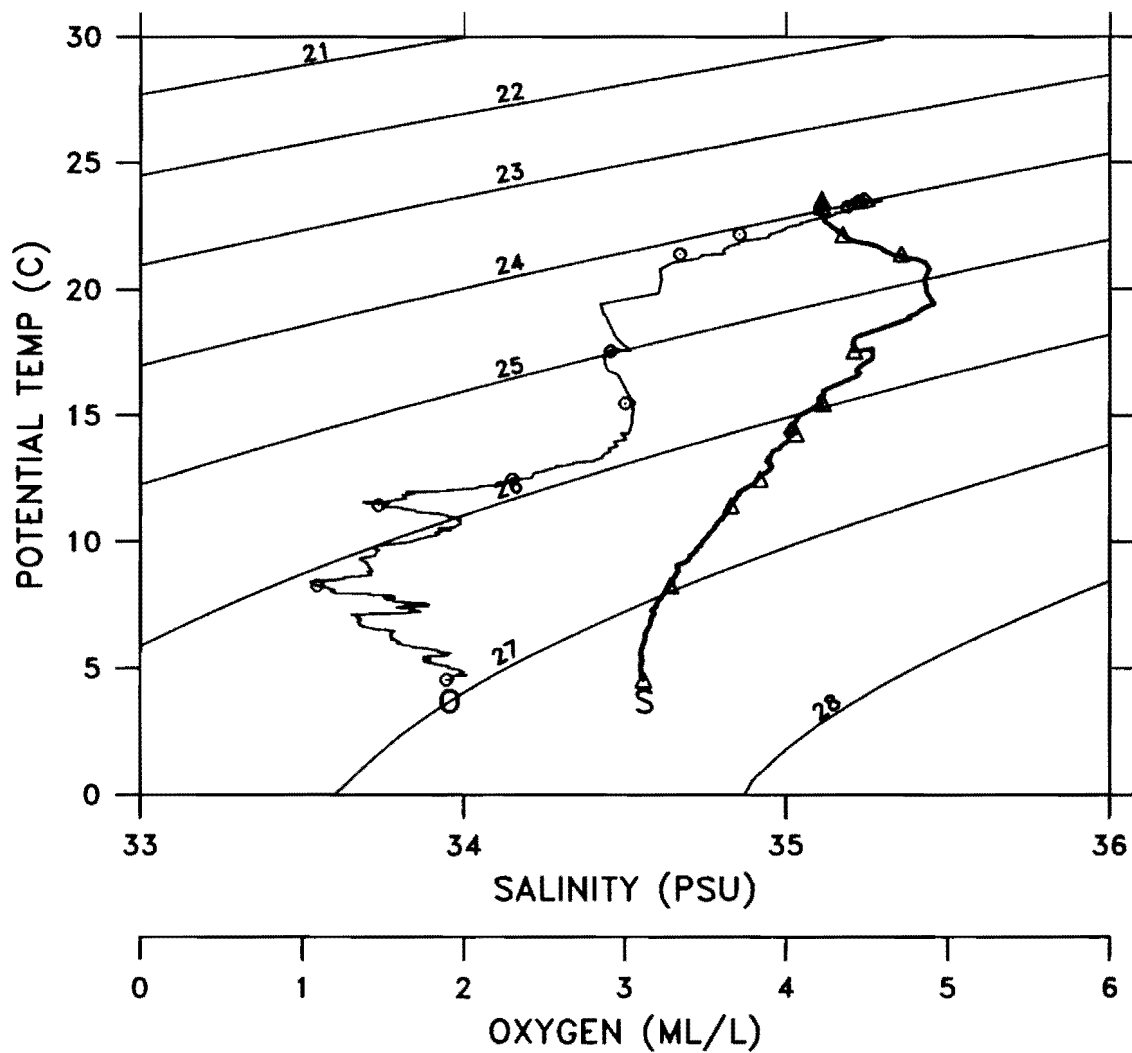


CAST EP1-88-OC -015 DATE 22 MAY 88 TIME 2314 GMT
 LAT 01 30.3S LONG 139 59.0W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 070 T SPD 18 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 24.5 WET 21.4 DEPTH 4322 M

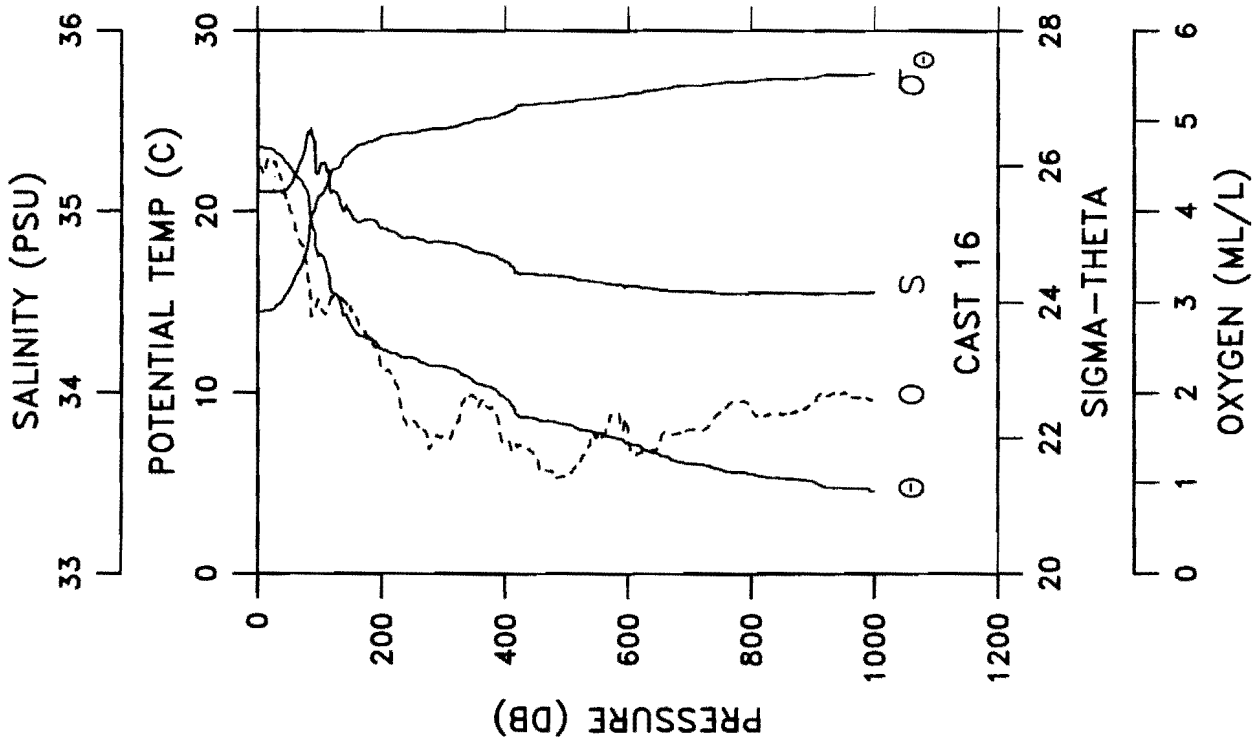


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.232 | 35.133 | 4.24 | 23.969 | 0.000 |
| 10 | 23.159 | 35.133 | 4.16 | 23.991 | 0.039 |
| 20 | 23.109 | 35.136 | 4.11 | 24.007 | 0.078 |
| 30 | 23.044 | 35.150 | 4.12 | 24.036 | 0.117 |
| 40 | 23.002 | 35.168 | 4.11 | 24.062 | 0.156 |
| 50 | 22.965 | 35.211 | 3.90 | 24.105 | 0.194 |
| 60 | 22.945 | 35.264 | 3.92 | 24.151 | 0.232 |
| 70 | 22.968 | 35.317 | 3.83 | 24.185 | 0.270 |
| 80 | 22.972 | 35.430 | 3.91 | 24.269 | 0.307 |
| 90 | 20.790 | 35.540 | 3.67 | 24.964 | 0.342 |
| 100 | 18.868 | 35.488 | 2.54 | 25.429 | 0.369 |
| 110 | 17.366 | 35.336 | 2.62 | 25.685 | 0.394 |
| 120 | 16.132 | 35.247 | 2.79 | 25.908 | 0.416 |
| 130 | 15.584 | 35.198 | 2.70 | 25.995 | 0.437 |
| 140 | 14.884 | 35.139 | 2.66 | 26.105 | 0.457 |
| 150 | 14.426 | 35.094 | 2.57 | 26.170 | 0.476 |
| 160 | 13.892 | 35.048 | 2.53 | 26.248 | 0.495 |
| 170 | 13.659 | 35.024 | 2.48 | 26.278 | 0.513 |
| 180 | 13.328 | 34.982 | 2.20 | 26.313 | 0.530 |
| 190 | 13.084 | 34.952 | 1.59 | 26.339 | 0.548 |
| 200 | 12.602 | 34.898 | 0.52 | 26.394 | 0.565 |
| 250 | 11.981 | 34.866 | 1.74 | 26.489 | 0.647 |
| 300 | 11.631 | 34.845 | 0.99 | 26.539 | 0.726 |
| 350 | 10.881 | 34.802 | 0.50 | 26.643 | 0.801 |
| 400 | 9.775 | 34.736 | 0.94 | 26.785 | 0.872 |
| 450 | 8.178 | 34.632 | 1.52 | 26.959 | 0.933 |
| 500 | 8.005 | 34.624 | 1.37 | 26.978 | 0.991 |
| 550 | 7.638 | 34.603 | 1.57 | 27.016 | 1.048 |
| 600 | 7.039 | 34.574 | 1.87 | 27.078 | 1.104 |
| 650 | 6.736 | 34.577 | 1.36 | 27.122 | 1.157 |
| 700 | 6.232 | 34.560 | 1.52 | 27.175 | 1.208 |
| 750 | 5.866 | 34.550 | 1.82 | 27.214 | 1.256 |
| 800 | 5.287 | 34.547 | 1.96 | 27.282 | 1.302 |
| 900 | 5.031 | 34.548 | 1.96 | 27.314 | 1.389 |
| 1000 | 4.615 | 34.555 | 1.93 | 27.366 | 1.471 |
| 1003 | 4.605 | 34.555 | 1.94 | 27.367 | 1.474 |

CAST EP1-88-OC -016 DATE 23 MAY 88 TIME 0315 GMT
LAT 01 00.2S LONG 139 59.6W

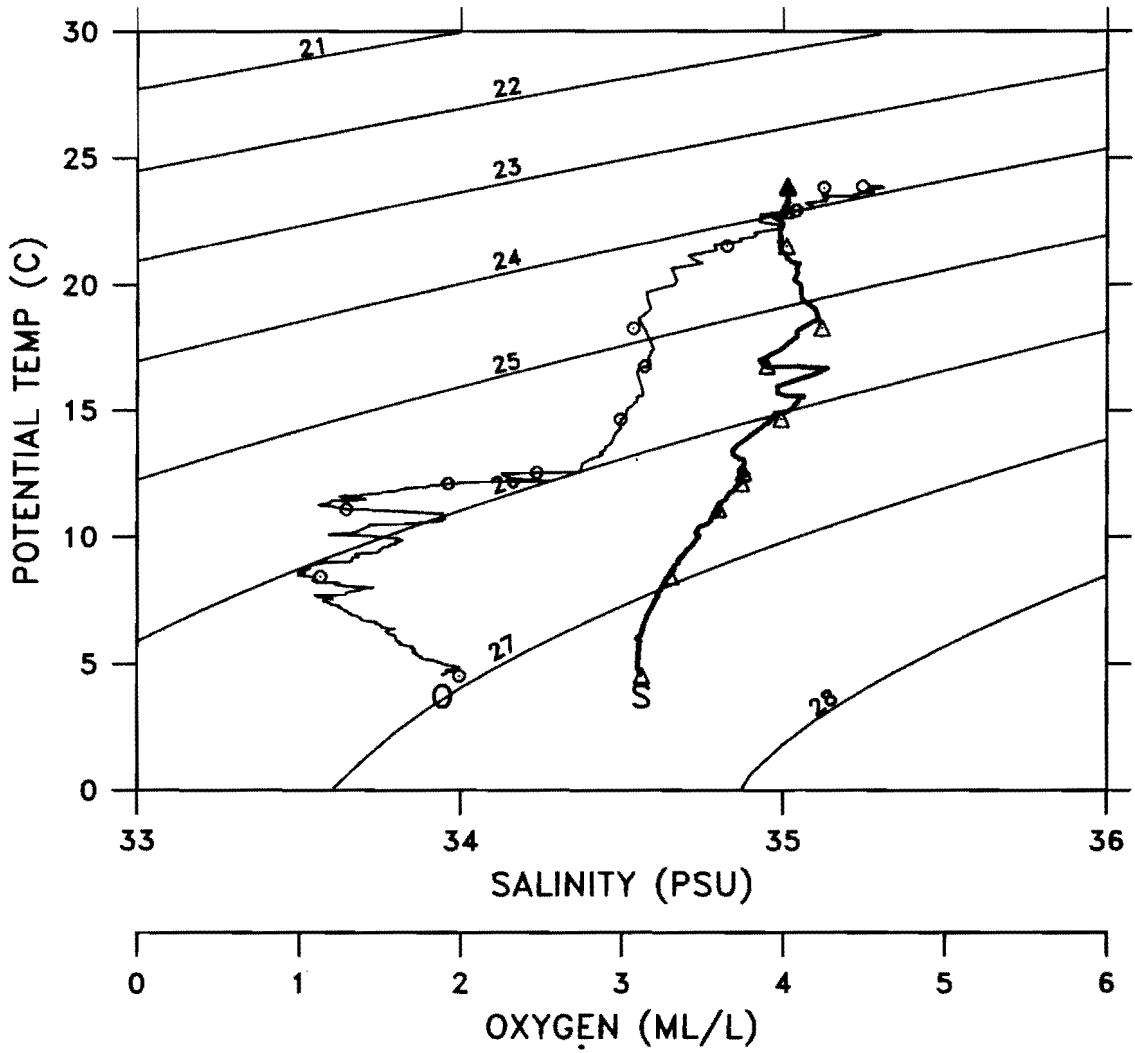


CAST EP1-88-OC -016 DATE 23 MAY 88 TIME 0315 GMT
 LAT 01 00.2S LONG 139 59.6W WEATHER 0 SEA STATE 4
 BAROMETER 09 WIND DIR 070 T SPD 15 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 24.3 WET 22.0 DEPTH 4267 M

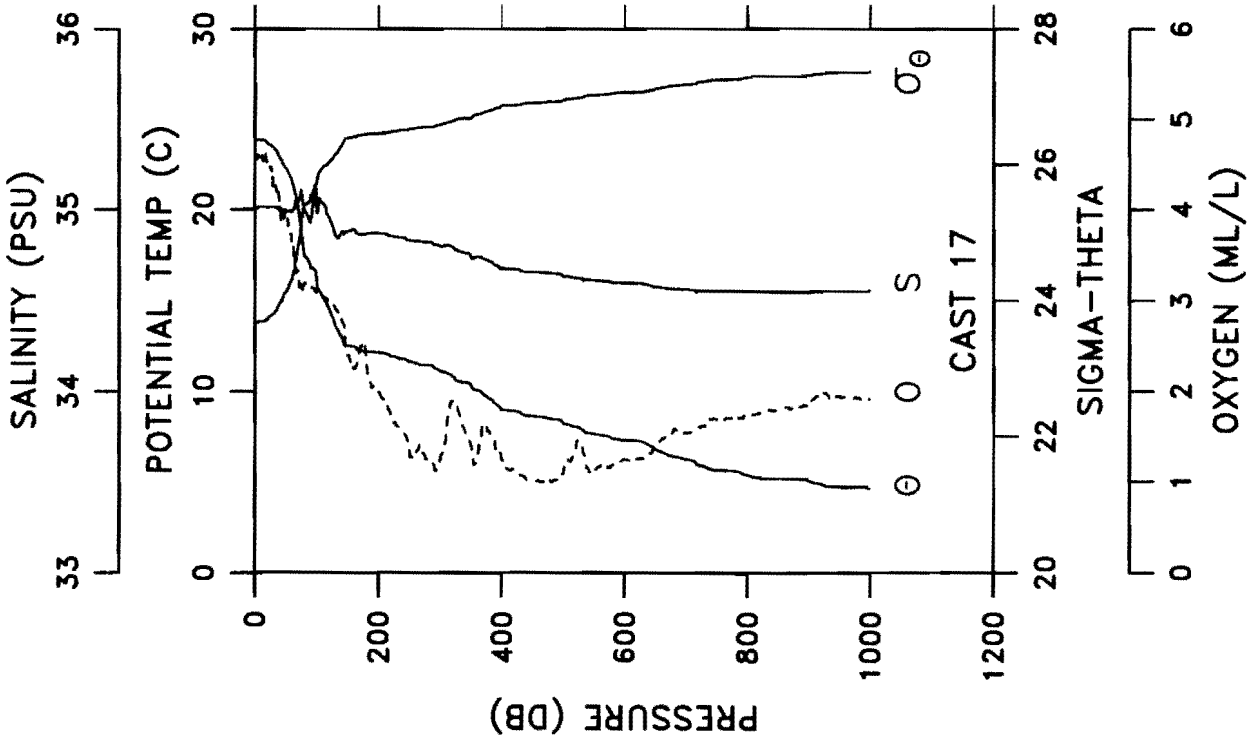


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.542 | 35.108 | 4.49 | 23.860 | 0.000 |
| 10 | 23.515 | 35.104 | 4.42 | 23.865 | 0.040 |
| 20 | 23.454 | 35.107 | 4.59 | 23.884 | 0.081 |
| 30 | 23.188 | 35.108 | 4.47 | 23.963 | 0.121 |
| 40 | 22.963 | 35.100 | 4.31 | 24.022 | 0.160 |
| 50 | 22.552 | 35.133 | 4.09 | 24.164 | 0.198 |
| 60 | 21.994 | 35.193 | 3.83 | 24.368 | 0.235 |
| 70 | 21.680 | 35.282 | 3.64 | 24.523 | 0.270 |
| 80 | 21.038 | 35.431 | 3.29 | 24.813 | 0.303 |
| 90 | 19.009 | 35.401 | 2.86 | 25.327 | 0.332 |
| 100 | 17.590 | 35.245 | 2.97 | 25.561 | 0.357 |
| 110 | 17.090 | 35.246 | 2.87 | 25.682 | 0.381 |
| 120 | 15.497 | 35.108 | 3.06 | 25.946 | 0.403 |
| 130 | 15.289 | 35.081 | 3.05 | 25.971 | 0.424 |
| 140 | 14.269 | 35.008 | 3.01 | 26.137 | 0.444 |
| 150 | 13.776 | 34.983 | 2.95 | 26.222 | 0.463 |
| 160 | 13.233 | 34.941 | 2.81 | 26.301 | 0.481 |
| 170 | 13.146 | 34.949 | 2.70 | 26.325 | 0.498 |
| 180 | 12.995 | 34.953 | 2.57 | 26.358 | 0.515 |
| 190 | 12.847 | 34.947 | 2.50 | 26.383 | 0.532 |
| 200 | 12.437 | 34.907 | 2.29 | 26.433 | 0.549 |
| 250 | 11.944 | 34.856 | 1.69 | 26.489 | 0.630 |
| 300 | 11.501 | 34.831 | 1.52 | 26.552 | 0.708 |
| 350 | 10.622 | 34.780 | 1.95 | 26.673 | 0.783 |
| 400 | 9.726 | 34.722 | 1.44 | 26.781 | 0.854 |
| 450 | 8.582 | 34.655 | 1.25 | 26.914 | 0.916 |
| 500 | 8.260 | 34.639 | 1.09 | 26.952 | 0.976 |
| 550 | 7.781 | 34.612 | 1.51 | 27.002 | 1.035 |
| 600 | 7.186 | 34.592 | 1.61 | 27.071 | 1.091 |
| 650 | 6.609 | 34.571 | 1.42 | 27.134 | 1.144 |
| 700 | 6.075 | 34.560 | 1.59 | 27.196 | 1.193 |
| 750 | 5.752 | 34.550 | 1.80 | 27.229 | 1.241 |
| 800 | 5.487 | 34.553 | 1.84 | 27.263 | 1.287 |
| 900 | 5.097 | 34.550 | 1.89 | 27.307 | 1.375 |
| 1000 | 4.543 | 34.557 | 1.91 | 27.376 | 1.458 |
| 1002 | 4.542 | 34.558 | 1.91 | 27.376 | 1.460 |

CAST EP1-88-OC -017 DATE 23 MAY 88 TIME 0703 GMT
LAT 00 29.9S LONG 139 59.1W

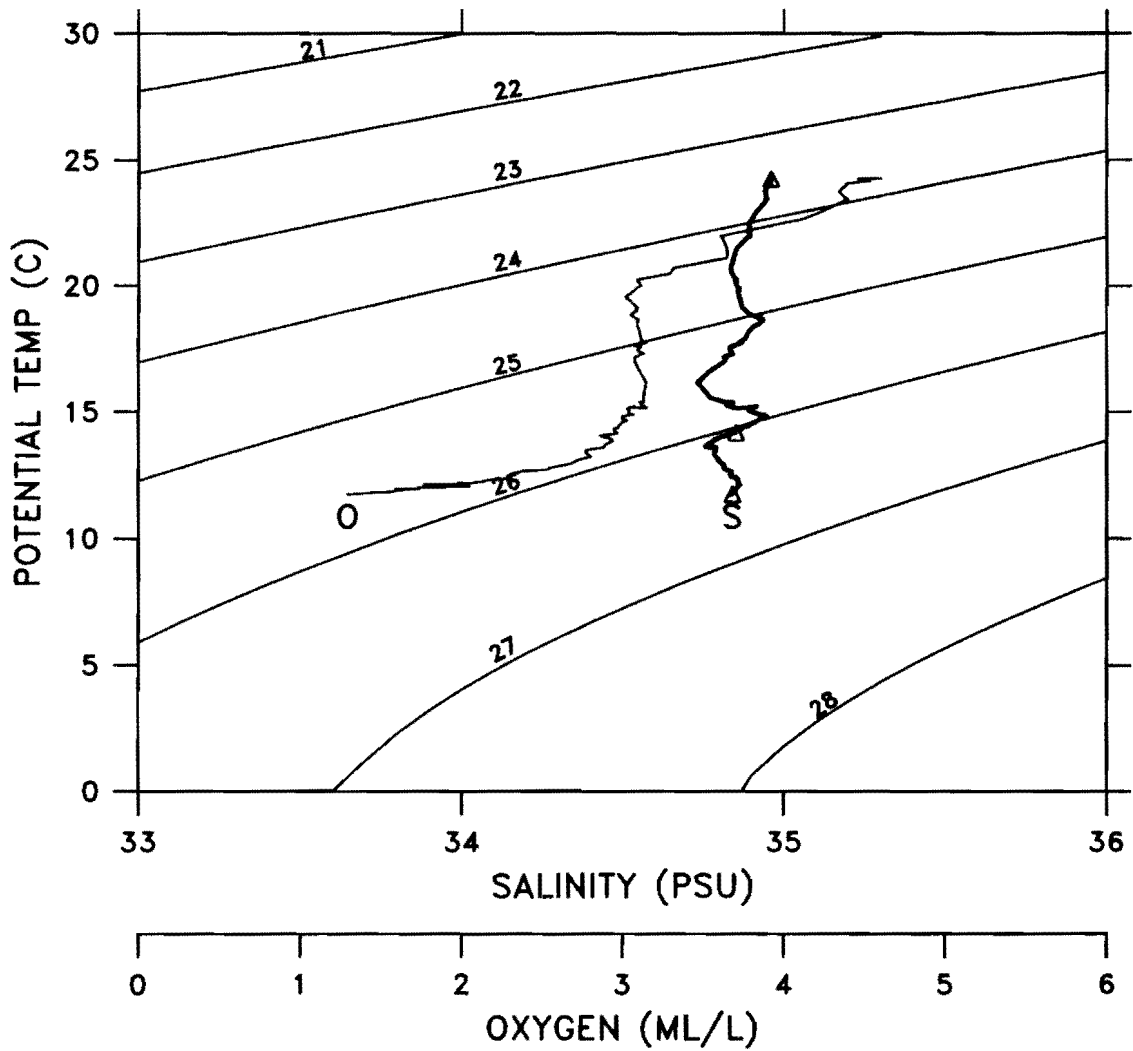


CAST EP1-88-OC -017 DATE 23 MAY 88 TIME 0703 GMT
 LAT 00 29.9S LONG 139 59.1W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 075 T SPD 20 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 22.1 WET 21.1 DEPTH 4291 M

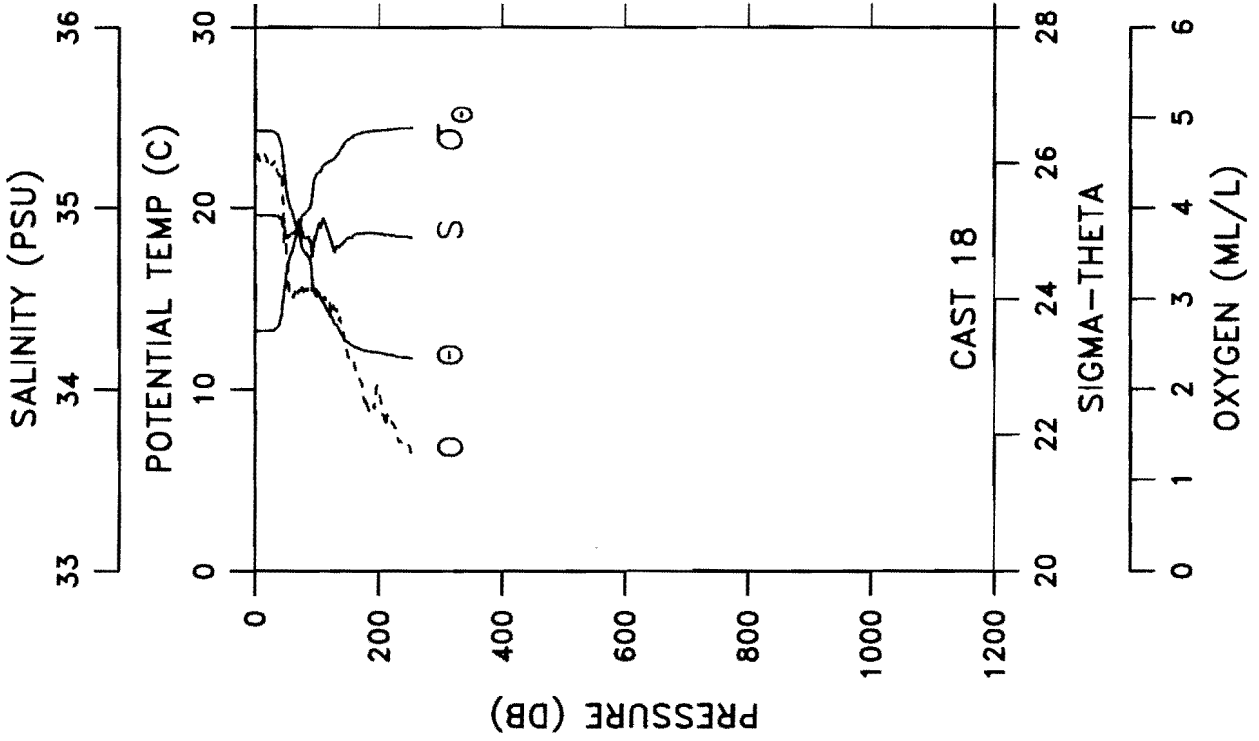


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.875 | 35.007 | 4.56 | 23.685 | 0.000 |
| 10 | 23.879 | 35.015 | 4.57 | 23.690 | 0.042 |
| 20 | 23.757 | 35.013 | 4.53 | 23.725 | 0.084 |
| 30 | 23.495 | 35.013 | 4.26 | 23.802 | 0.125 |
| 40 | 22.941 | 35.004 | 4.08 | 23.956 | 0.166 |
| 50 | 22.305 | 34.998 | 4.00 | 24.132 | 0.204 |
| 60 | 21.570 | 34.991 | 3.57 | 24.332 | 0.241 |
| 70 | 19.992 | 35.054 | 3.32 | 24.806 | 0.276 |
| 80 | 17.437 | 34.992 | 3.20 | 25.404 | 0.304 |
| 90 | 16.755 | 34.945 | 3.15 | 25.531 | 0.330 |
| 100 | 15.974 | 34.981 | 3.12 | 25.740 | 0.354 |
| 110 | 15.152 | 35.032 | 3.05 | 25.964 | 0.375 |
| 120 | 14.551 | 34.957 | 2.99 | 26.037 | 0.395 |
| 130 | 13.593 | 34.854 | 2.91 | 26.160 | 0.415 |
| 140 | 13.055 | 34.878 | 2.80 | 26.288 | 0.433 |
| 150 | 12.531 | 34.879 | 2.39 | 26.393 | 0.450 |
| 160 | 12.501 | 34.890 | 2.25 | 26.407 | 0.467 |
| 170 | 12.251 | 34.863 | 2.49 | 26.435 | 0.483 |
| 180 | 12.192 | 34.864 | 2.31 | 26.447 | 0.499 |
| 190 | 12.166 | 34.868 | 2.05 | 26.456 | 0.516 |
| 200 | 12.137 | 34.865 | 1.99 | 26.459 | 0.532 |
| 250 | 11.643 | 34.829 | 1.37 | 26.524 | 0.611 |
| 300 | 11.156 | 34.799 | 1.23 | 26.591 | 0.689 |
| 350 | 10.388 | 34.738 | 1.42 | 26.681 | 0.761 |
| 400 | 8.983 | 34.675 | 1.26 | 26.867 | 0.828 |
| 450 | 8.634 | 34.658 | 1.02 | 26.909 | 0.891 |
| 500 | 8.261 | 34.633 | 1.08 | 26.947 | 0.952 |
| 550 | 7.638 | 34.611 | 1.13 | 27.022 | 1.009 |
| 600 | 7.288 | 34.596 | 1.24 | 27.060 | 1.065 |
| 650 | 6.796 | 34.576 | 1.38 | 27.113 | 1.119 |
| 700 | 6.232 | 34.562 | 1.54 | 27.177 | 1.170 |
| 750 | 5.631 | 34.553 | 1.69 | 27.246 | 1.217 |
| 800 | 5.362 | 34.550 | 1.72 | 27.276 | 1.263 |
| 900 | 5.031 | 34.547 | 1.89 | 27.313 | 1.350 |
| 1000 | 4.597 | 34.556 | 1.91 | 27.369 | 1.433 |
| 1005 | 4.557 | 34.556 | 1.89 | 27.373 | 1.437 |

CAST EP1-88-OC -018 DATE 23 MAY 88 TIME 1034 GMT
LAT 00 02.0S LONG 139 54.3W

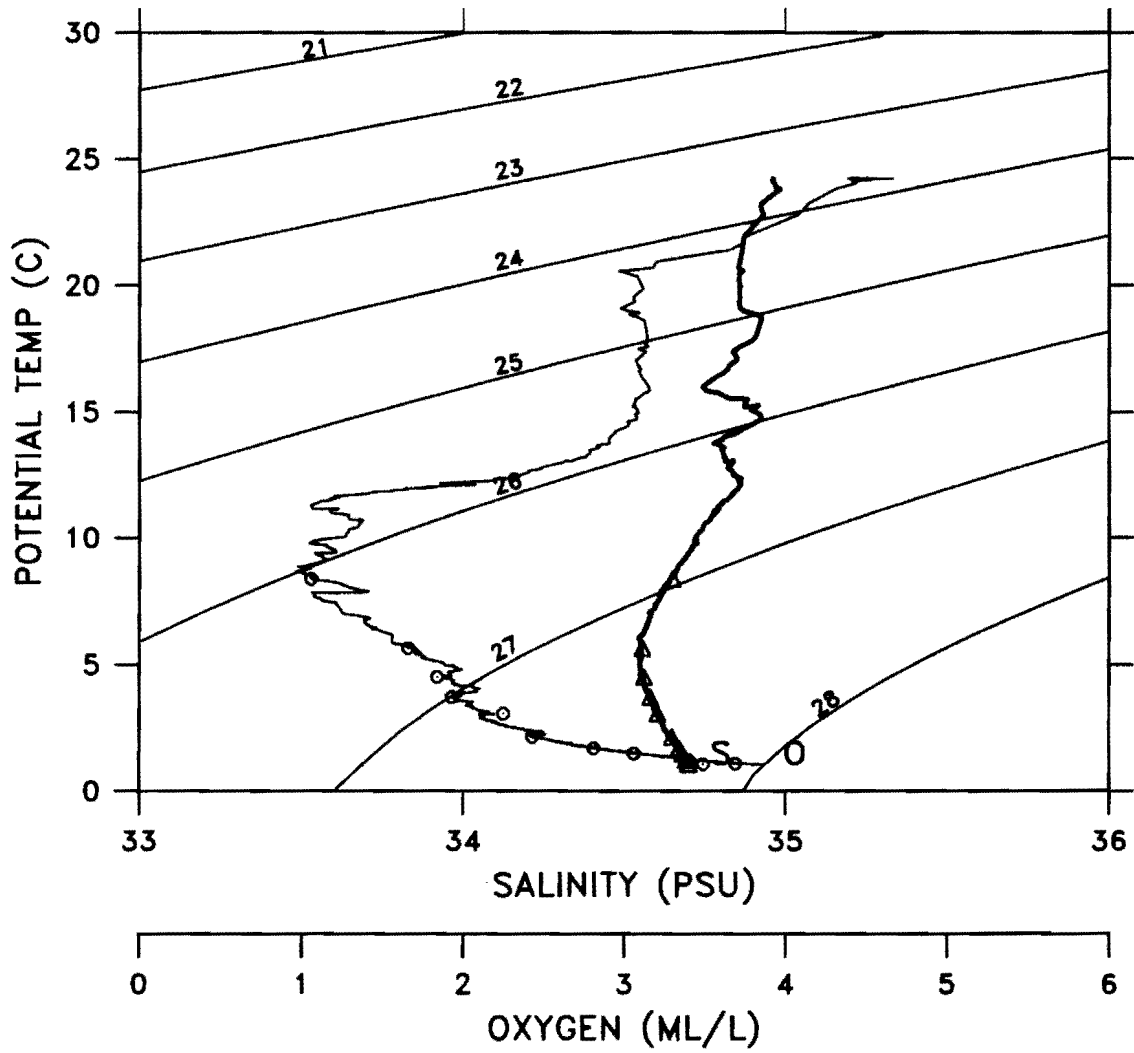


CAST EP1-88-OC-018 DATE 23 MAY 88 TIME 1034 GMT
 LAT 00 02.0S LONG 139 54.3W WEATHER 2 SEA STATE 3
 BAROMETER 11 WIND DIR 090 T SPD 16 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 23.0 WET 21.0 DEPTH 4346 M

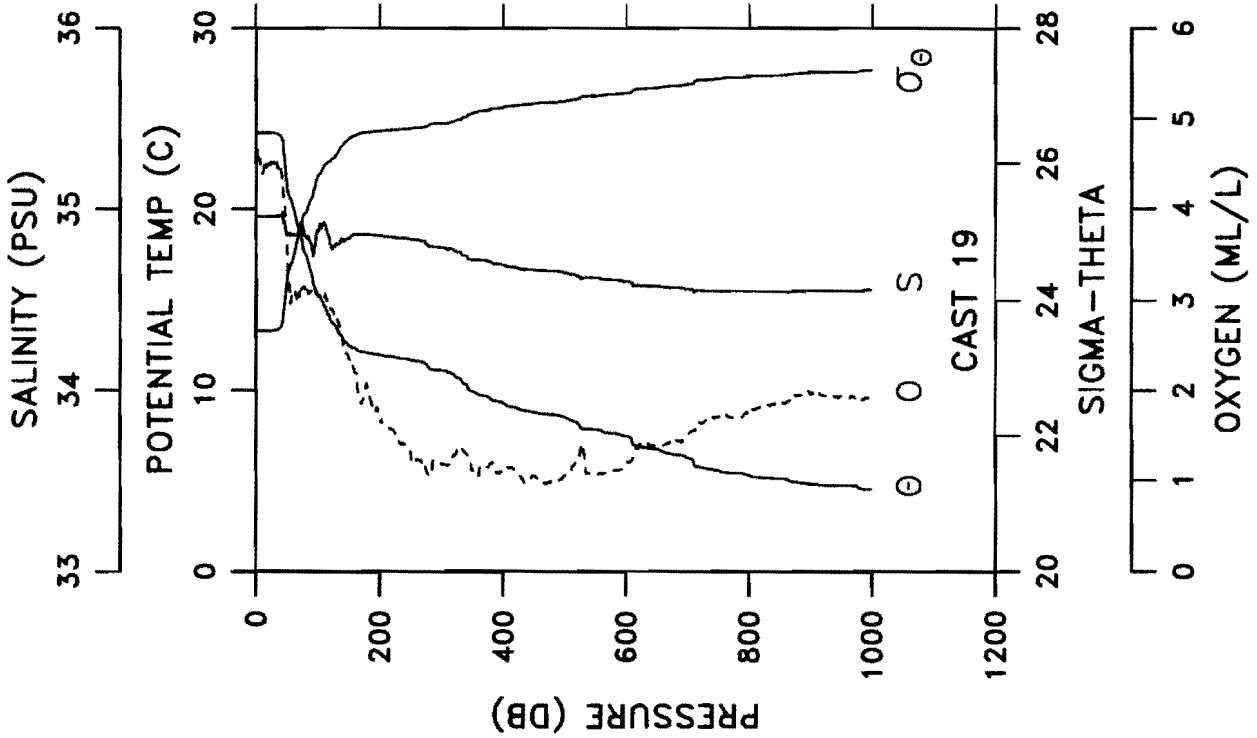


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 24.269 | 34.960 | 4.59 | 23.533 | 0.000 |
| 10 | 24.257 | 34.958 | 4.53 | 23.535 | 0.043 |
| 20 | 24.253 | 34.959 | 4.50 | 23.537 | 0.087 |
| 30 | 24.228 | 34.958 | 4.51 | 23.544 | 0.130 |
| 40 | 23.767 | 34.941 | 4.34 | 23.667 | 0.174 |
| 50 | 21.123 | 34.845 | 3.65 | 24.344 | 0.213 |
| 60 | 19.875 | 34.859 | 3.08 | 24.688 | 0.247 |
| 70 | 18.699 | 34.930 | 3.09 | 25.045 | 0.278 |
| 80 | 17.578 | 34.833 | 3.11 | 25.248 | 0.306 |
| 90 | 16.997 | 34.815 | 3.08 | 25.374 | 0.333 |
| 100 | 15.157 | 34.875 | 3.09 | 25.842 | 0.356 |
| 110 | 14.825 | 34.945 | 3.00 | 25.969 | 0.378 |
| 120 | 14.186 | 34.841 | 2.96 | 26.026 | 0.398 |
| 130 | 13.591 | 34.771 | 2.89 | 26.096 | 0.418 |
| 140 | 13.050 | 34.799 | 2.71 | 26.228 | 0.437 |
| 150 | 12.642 | 34.838 | 2.37 | 26.340 | 0.454 |
| 160 | 12.416 | 34.852 | 2.31 | 26.395 | 0.471 |
| 170 | 12.236 | 34.858 | 2.11 | 26.434 | 0.488 |
| 180 | 12.137 | 34.861 | 1.85 | 26.456 | 0.504 |
| 190 | 12.087 | 34.863 | 1.84 | 26.466 | 0.520 |
| 200 | 12.043 | 34.860 | 1.99 | 26.473 | 0.536 |
| 250 | 11.757 | 34.840 | 1.38 | 26.512 | 0.615 |
| 254 | 11.724 | 34.837 | 1.29 | 26.515 | 0.622 |

CAST EP1-88-OC -019 DATE 23 MAY 88 TIME 1232 GMT
LAT 00 02.8S LONG 139 53.6W

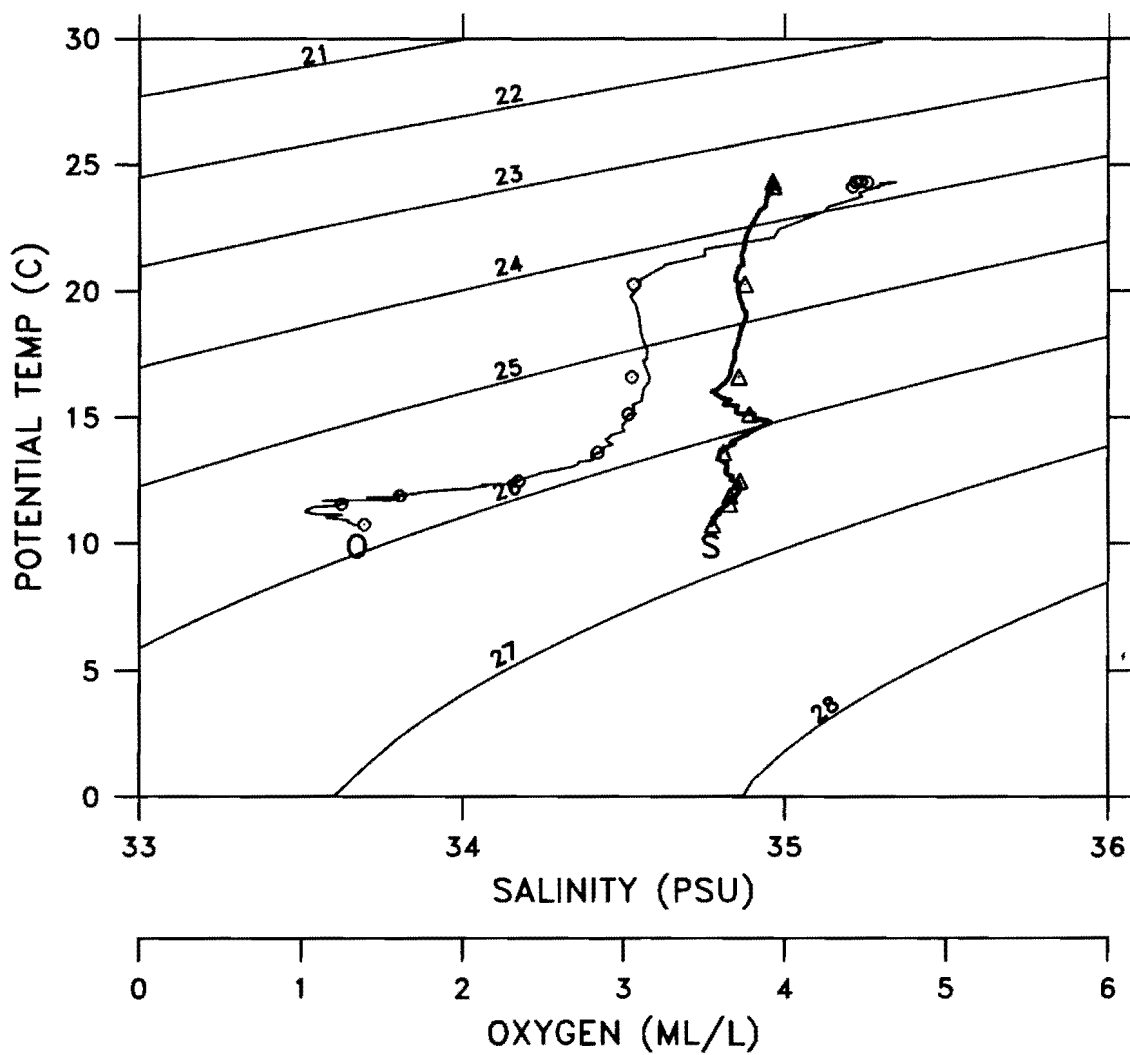


CAST EP1-88-0C-019 DATE 23 MAY 88 TIME 1232 GMT
 LAT 00 02.8S LONG 139 53.6W WEATHER 2 SEA STATE 3
 BAROMETER 11 WIND DIR 095 T SPD 16 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 23.2 WET 21.2 DEPTH 4334 M

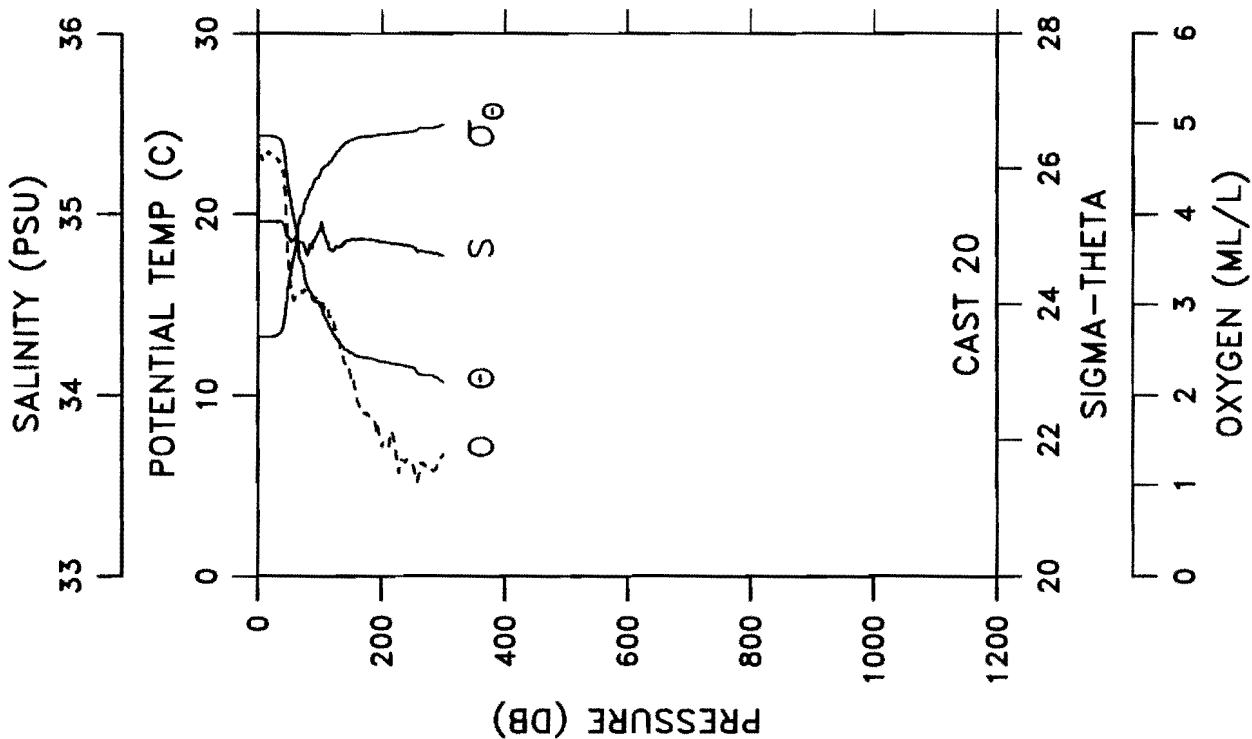


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DTN-M) | DELTA-D (DTN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 24.221 | 34.961 | 4.66 | 23.548 | 0.000 |
| 10 | 24.223 | 34.961 | 4.39 | 23.547 | 0.043 |
| 20 | 24.225 | 34.961 | 4.48 | 23.547 | 0.087 |
| 30 | 24.194 | 34.961 | 4.49 | 23.556 | 0.130 |
| 40 | 24.047 | 34.964 | 4.44 | 23.602 | 0.173 |
| 50 | 21.388 | 34.866 | 3.65 | 24.287 | 0.214 |
| 60 | 20.102 | 34.855 | 3.10 | 24.625 | 0.248 |
| 70 | 18.941 | 34.888 | 3.10 | 24.952 | 0.280 |
| 80 | 17.497 | 34.848 | 3.09 | 25.280 | 0.308 |
| 90 | 16.383 | 34.782 | 3.11 | 25.493 | 0.334 |
| 100 | 15.215 | 34.872 | 3.05 | 25.826 | 0.358 |
| 110 | 14.694 | 34.925 | 3.08 | 25.982 | 0.379 |
| 120 | 13.950 | 34.806 | 2.91 | 26.049 | 0.399 |
| 130 | 13.480 | 34.802 | 2.78 | 26.143 | 0.419 |
| 140 | 12.957 | 34.836 | 2.60 | 26.275 | 0.437 |
| 150 | 12.485 | 34.837 | 2.35 | 26.369 | 0.454 |
| 160 | 12.339 | 34.863 | 2.20 | 26.418 | 0.471 |
| 170 | 12.147 | 34.860 | 1.85 | 26.452 | 0.487 |
| 180 | 12.091 | 34.862 | 2.05 | 26.465 | 0.503 |
| 190 | 12.024 | 34.857 | 1.80 | 26.474 | 0.519 |
| 200 | 11.958 | 34.852 | 1.68 | 26.483 | 0.535 |
| 250 | 11.696 | 34.837 | 1.33 | 26.520 | 0.614 |
| 300 | 11.100 | 34.790 | 1.19 | 26.594 | 0.691 |
| 350 | 9.936 | 34.719 | 1.12 | 26.744 | 0.764 |
| 400 | 9.307 | 34.695 | 1.12 | 26.830 | 0.830 |
| 450 | 8.810 | 34.666 | 1.06 | 26.887 | 0.894 |
| 500 | 8.527 | 34.651 | 1.06 | 26.920 | 0.956 |
| 550 | 7.863 | 34.622 | 1.07 | 26.998 | 1.014 |
| 600 | 7.479 | 34.604 | 1.20 | 27.040 | 1.071 |
| 650 | 6.782 | 34.578 | 1.39 | 27.116 | 1.124 |
| 700 | 6.282 | 34.563 | 1.51 | 27.171 | 1.175 |
| 750 | 5.589 | 34.552 | 1.71 | 27.250 | 1.222 |
| 800 | 5.299 | 34.550 | 1.75 | 27.284 | 1.267 |
| 900 | 4.804 | 34.551 | 1.96 | 27.342 | 1.352 |
| 1000 | 4.508 | 34.558 | 1.91 | 27.381 | 1.434 |
| 1500 | 3.038 | 34.601 | 2.18 | 27.563 | 1.787 |
| 2000 | 2.139 | 34.643 | 2.45 | 27.674 | 2.068 |
| 2500 | 1.694 | 34.664 | 2.83 | 27.727 | 2.313 |
| 3000 | 1.486 | 34.674 | 3.10 | 27.749 | 2.546 |
| 3500 | 1.236 | 34.687 | 3.47 | 27.777 | 2.771 |
| 4000 | 1.087 | 34.695 | 3.77 | 27.794 | 2.986 |
| 4265 | 1.064 | 34.697 | 3.86 | 27.797 | 3.100 |

CAST EP1-88-OC -020 DATE 23 MAY 88 TIME 1528 GMT
LAT 00 00.3S LONG 139 57.2W

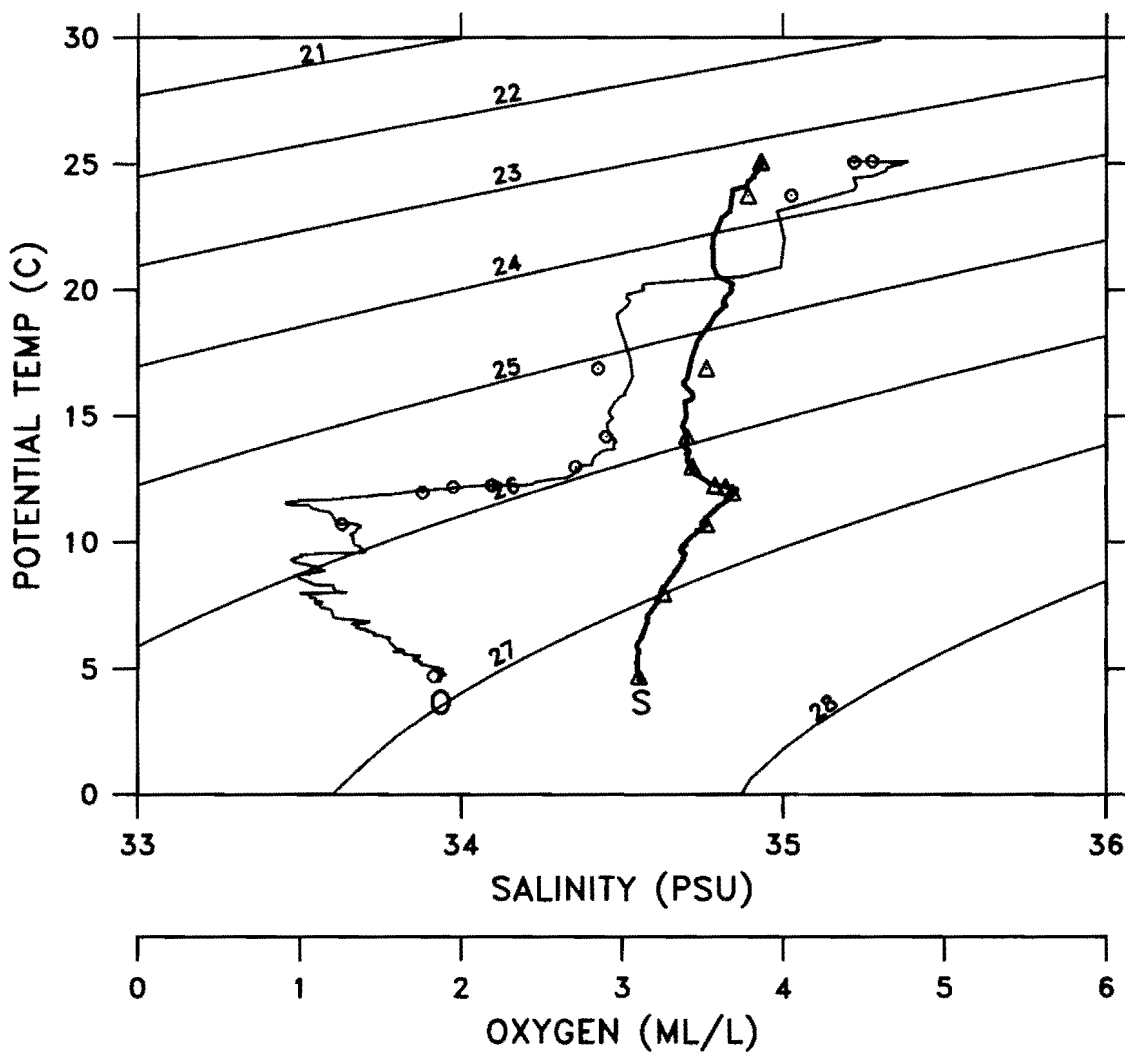


CAST EP1-88-OC -020 DATE 23 MAY 88 TIME 1528 GMT
 LAT 00 00.35 LONG 139 57.2W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 095 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 23.0 WET 21.2 DEPTH 4334 M

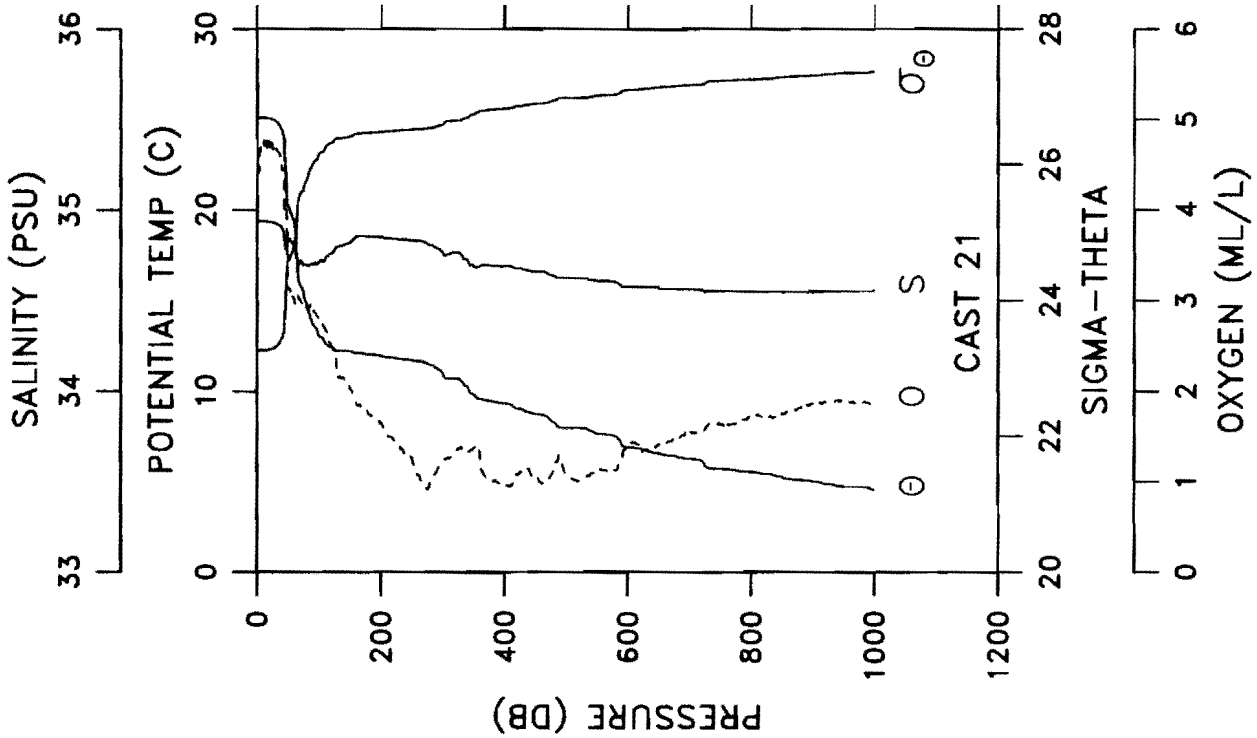


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.289 | 34.959 | 4.64 | 23.526 | 0.000 |
| 10 | 24.298 | 34.959 | 4.65 | 23.524 | 0.044 |
| 20 | 24.289 | 34.957 | 4.67 | 23.525 | 0.087 |
| 30 | 24.236 | 34.959 | 4.62 | 23.542 | 0.131 |
| 40 | 23.865 | 34.955 | 4.46 | 23.649 | 0.174 |
| 50 | 21.391 | 34.865 | 3.51 | 24.286 | 0.214 |
| 60 | 19.460 | 34.868 | 3.07 | 24.803 | 0.247 |
| 70 | 17.345 | 34.844 | 3.14 | 25.313 | 0.276 |
| 80 | 16.017 | 34.773 | 3.12 | 25.570 | 0.302 |
| 90 | 15.325 | 34.851 | 3.06 | 25.786 | 0.325 |
| 100 | 14.973 | 34.905 | 3.01 | 25.906 | 0.347 |
| 110 | 14.208 | 34.865 | 2.91 | 26.040 | 0.367 |
| 120 | 13.503 | 34.797 | 2.80 | 26.135 | 0.387 |
| 130 | 12.962 | 34.817 | 2.61 | 26.259 | 0.405 |
| 140 | 12.514 | 34.832 | 2.35 | 26.360 | 0.423 |
| 150 | 12.333 | 34.855 | 2.23 | 26.413 | 0.439 |
| 160 | 12.158 | 34.860 | 1.98 | 26.450 | 0.456 |
| 170 | 12.089 | 34.860 | 1.81 | 26.464 | 0.472 |
| 180 | 12.040 | 34.858 | 1.77 | 26.472 | 0.488 |
| 190 | 11.979 | 34.856 | 1.69 | 26.482 | 0.504 |
| 200 | 11.844 | 34.845 | 1.45 | 26.499 | 0.519 |
| 250 | 11.550 | 34.823 | 1.25 | 26.537 | 0.598 |
| 300 | 10.730 | 34.772 | 1.34 | 26.647 | 0.673 |
| 300 | 10.730 | 34.772 | 1.34 | 26.647 | 0.673 |

CAST EP1-88-OC -021 DATE 24 MAY 88 TIME 1736 GMT
LAT 00 29.9N LONG 140 00.3W



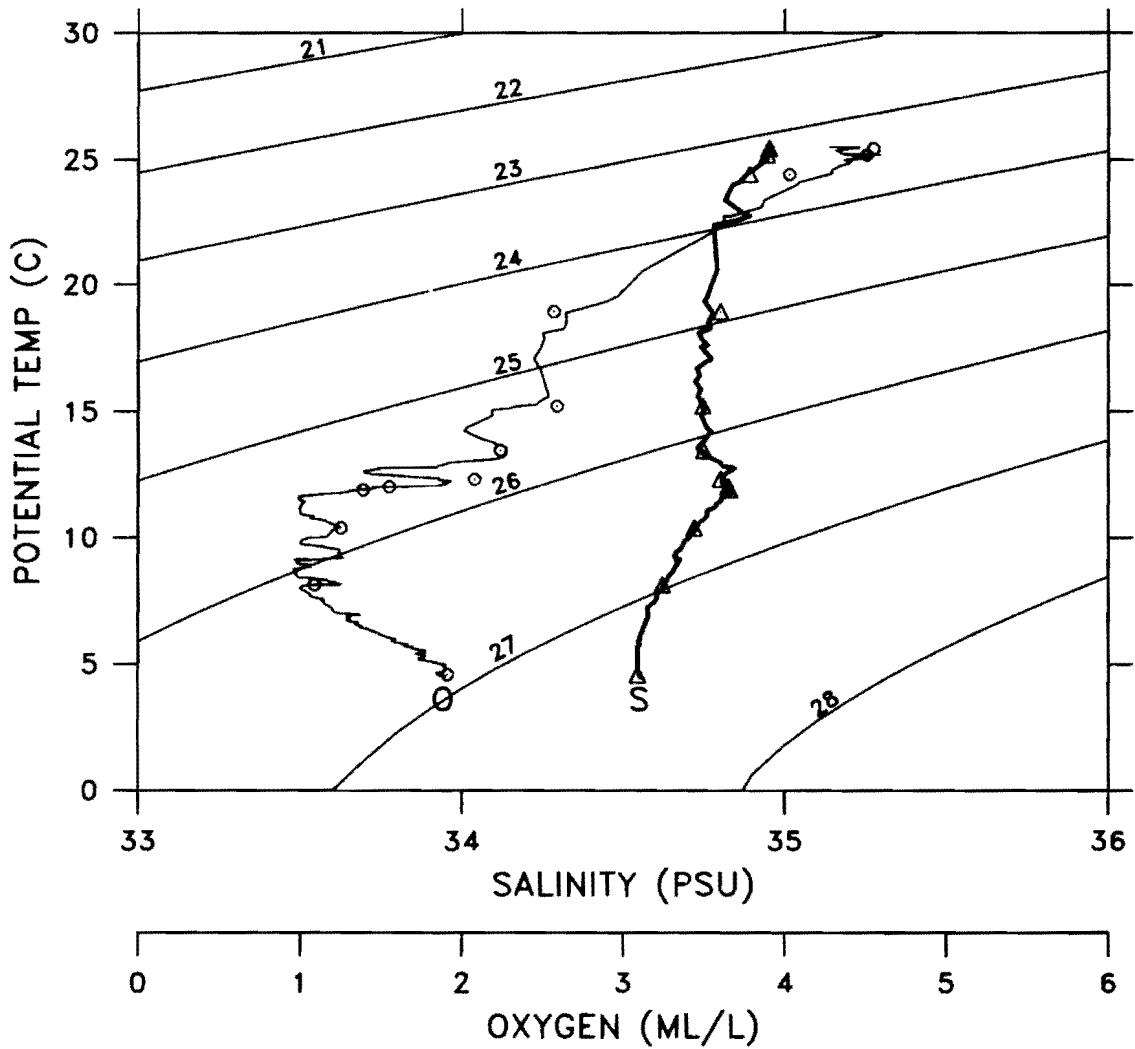
CAST EP1-88-OC -021 DATE 24 MAY 88 TIME 1736 GMT
 LAT 00 29.9N LONG 140 00.3W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 130 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 22.0 DEPTH 4388 M



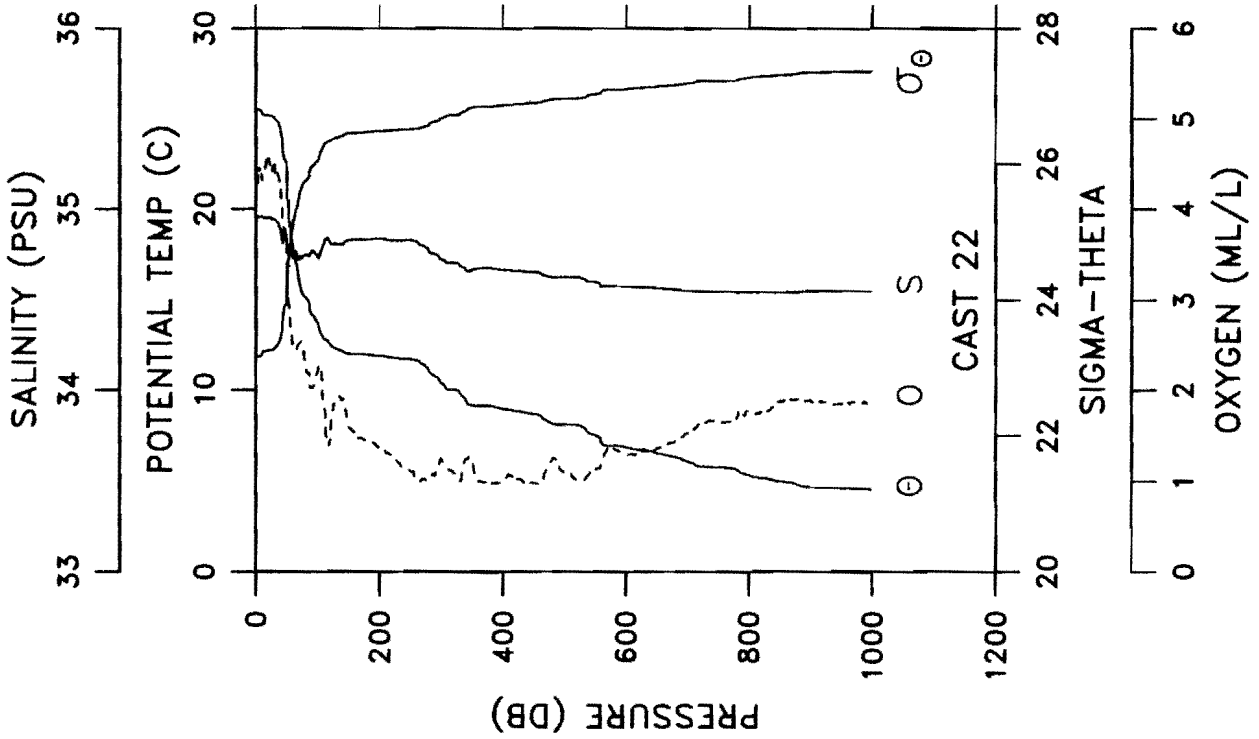
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.078 | 34.937 | 4.40 | 23.272 | 0.000 |
| 10 | 25.086 | 34.938 | 4.75 | 23.270 | 0.046 |
| 20 | 25.038 | 34.935 | 4.71 | 23.283 | 0.092 |
| 30 | 24.906 | 34.926 | 4.69 | 23.316 | 0.138 |
| 40 | 24.419 | 34.903 | 4.43 | 23.445 | 0.183 |
| 50 | 20.217 | 34.842 | 3.13 | 24.585 | 0.222 |
| 60 | 19.216 | 34.807 | 3.00 | 24.820 | 0.255 |
| 70 | 15.807 | 34.719 | 3.00 | 25.576 | 0.282 |
| 80 | 14.813 | 34.694 | 2.92 | 25.778 | 0.306 |
| 90 | 13.691 | 34.698 | 2.95 | 26.018 | 0.327 |
| 100 | 13.047 | 34.717 | 2.78 | 26.165 | 0.346 |
| 110 | 12.651 | 34.735 | 2.68 | 26.258 | 0.365 |
| 120 | 12.434 | 34.761 | 2.50 | 26.321 | 0.382 |
| 130 | 12.247 | 34.798 | 2.17 | 26.386 | 0.399 |
| 140 | 12.246 | 34.808 | 2.15 | 26.394 | 0.416 |
| 150 | 12.213 | 34.822 | 2.03 | 26.411 | 0.432 |
| 160 | 12.102 | 34.854 | 1.85 | 26.457 | 0.448 |
| 170 | 12.096 | 34.857 | 1.83 | 26.460 | 0.464 |
| 180 | 12.043 | 34.853 | 1.74 | 26.467 | 0.481 |
| 190 | 12.019 | 34.852 | 1.70 | 26.471 | 0.497 |
| 200 | 11.973 | 34.849 | 1.65 | 26.478 | 0.513 |
| 250 | 11.710 | 34.832 | 1.26 | 26.514 | 0.592 |
| 300 | 10.981 | 34.760 | 1.20 | 26.593 | 0.670 |
| 350 | 9.837 | 34.685 | 1.37 | 26.734 | 0.742 |
| 400 | 9.324 | 34.691 | 0.98 | 26.824 | 0.808 |
| 450 | 8.730 | 34.661 | 1.07 | 26.896 | 0.871 |
| 500 | 7.975 | 34.627 | 1.08 | 26.985 | 0.931 |
| 550 | 7.630 | 34.609 | 1.14 | 27.022 | 0.989 |
| 600 | 6.887 | 34.578 | 1.41 | 27.102 | 1.044 |
| 650 | 6.547 | 34.568 | 1.42 | 27.140 | 1.096 |
| 700 | 6.258 | 34.562 | 1.54 | 27.174 | 1.146 |
| 750 | 5.697 | 34.553 | 1.63 | 27.238 | 1.194 |
| 800 | 5.541 | 34.550 | 1.71 | 27.254 | 1.240 |
| 900 | 5.018 | 34.547 | 1.86 | 27.314 | 1.328 |
| 1000 | 4.548 | 34.555 | 1.85 | 27.374 | 1.412 |
| 1008 | 4.525 | 34.556 | 1.87 | 27.377 | 1.418 |

CAST EP1-88-OC -022 DATE 25 MAY 88 TIME 0205 GMT

LAT 00 58.5N LONG 139 59.5W

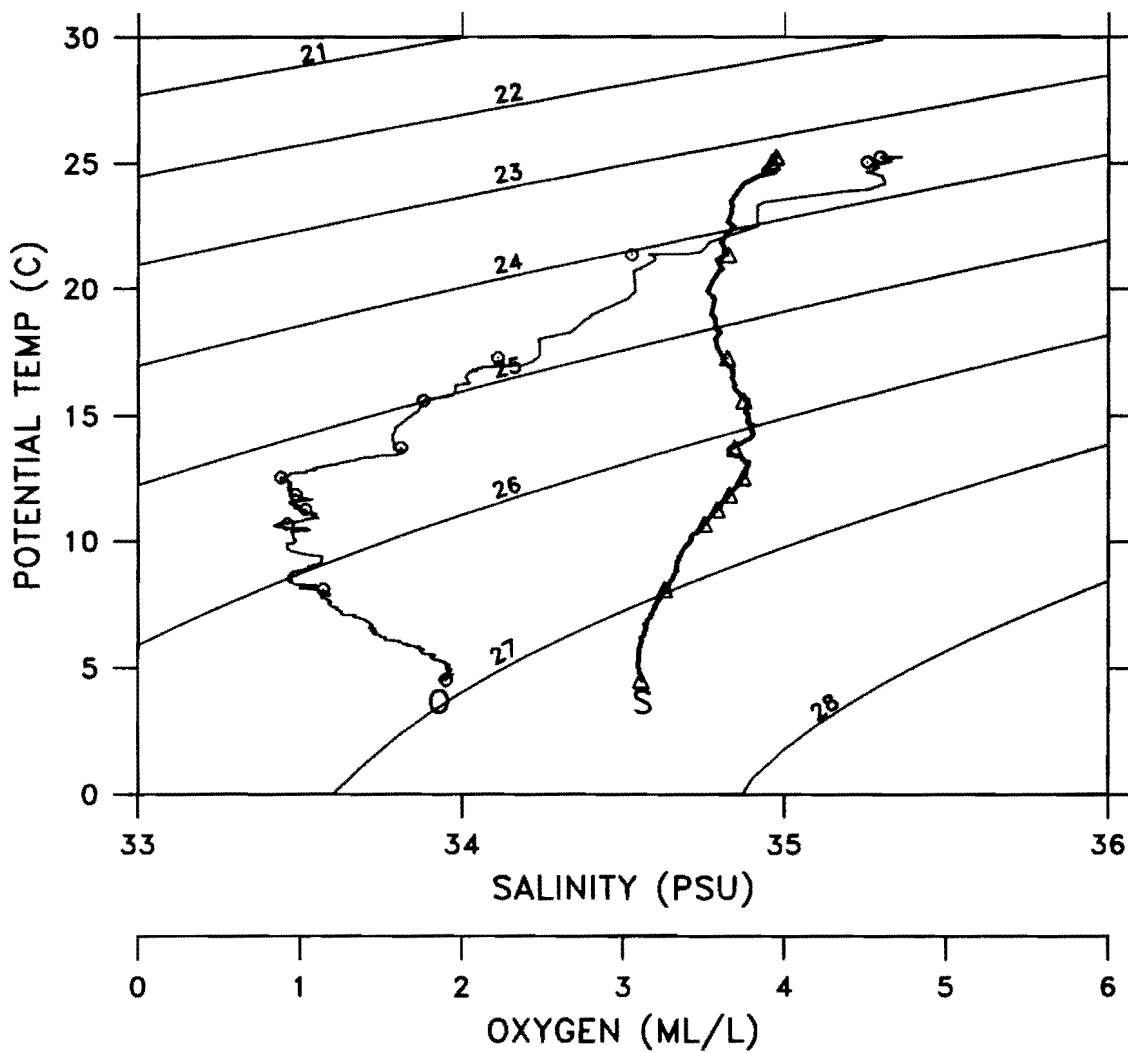


CAST EP1-88-0C -022 DATE 25 MAY 88 TIME 0205 GMT
 LAT 00 58.5N LONG 139 59.5W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 090 T SPD 07 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 26.0 WET 22.8 DEPTH 4389 M

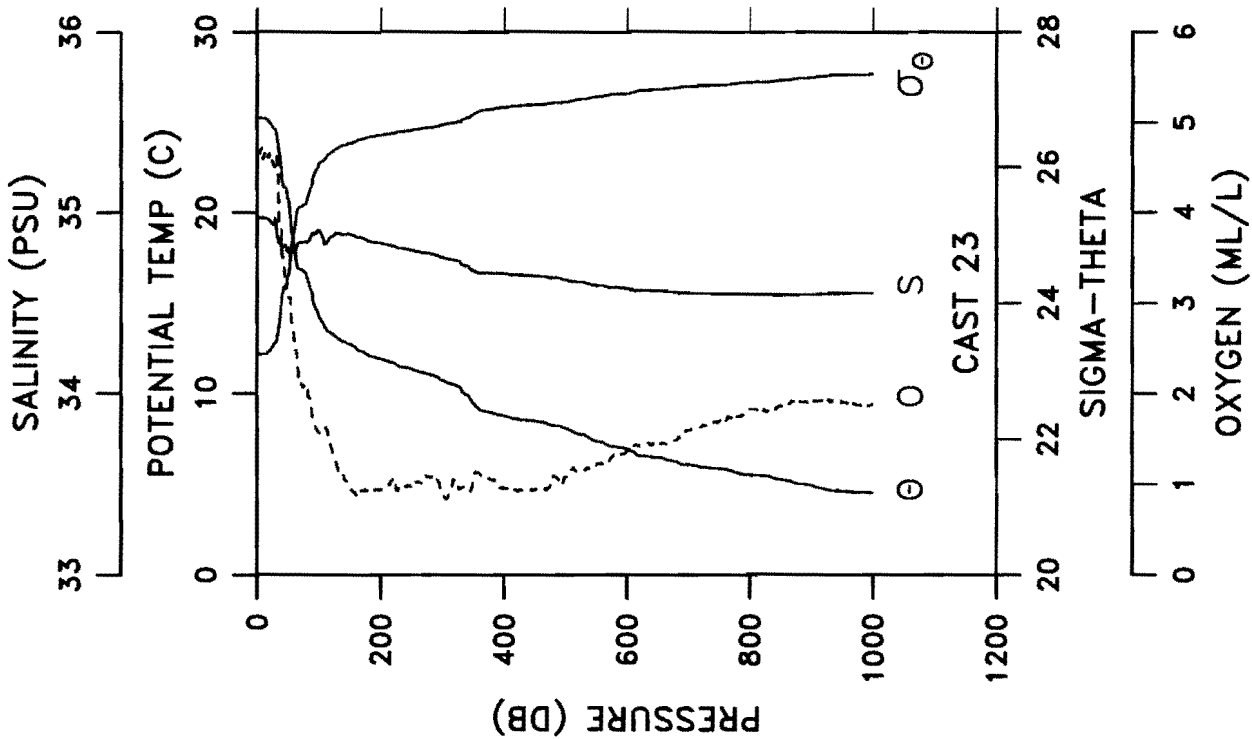


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.518 | 34.960 | 4.28 | 23.155 | 0.000 |
| 10 | 25.363 | 34.958 | 4.32 | 23.201 | 0.047 |
| 20 | 25.185 | 34.952 | 4.54 | 23.250 | 0.093 |
| 30 | 25.055 | 34.947 | 4.50 | 23.287 | 0.139 |
| 40 | 24.447 | 34.885 | 4.30 | 23.423 | 0.185 |
| 50 | 22.400 | 34.781 | 3.63 | 23.940 | 0.226 |
| 60 | 17.862 | 34.744 | 2.51 | 25.110 | 0.258 |
| 70 | 16.040 | 34.732 | 2.52 | 25.533 | 0.285 |
| 80 | 15.162 | 34.750 | 2.31 | 25.744 | 0.308 |
| 90 | 14.209 | 34.771 | 2.01 | 25.967 | 0.330 |
| 100 | 13.751 | 34.743 | 2.20 | 26.041 | 0.350 |
| 110 | 12.816 | 34.813 | 1.84 | 26.285 | 0.369 |
| 120 | 12.521 | 34.814 | 1.44 | 26.345 | 0.386 |
| 130 | 12.297 | 34.809 | 1.85 | 26.384 | 0.403 |
| 140 | 12.161 | 34.809 | 1.91 | 26.410 | 0.419 |
| 150 | 12.019 | 34.830 | 1.61 | 26.454 | 0.436 |
| 160 | 12.008 | 34.835 | 1.49 | 26.460 | 0.452 |
| 170 | 11.996 | 34.836 | 1.47 | 26.463 | 0.468 |
| 180 | 11.974 | 34.836 | 1.46 | 26.467 | 0.484 |
| 190 | 11.915 | 34.837 | 1.42 | 26.479 | 0.500 |
| 200 | 11.899 | 34.838 | 1.36 | 26.483 | 0.516 |
| 250 | 11.709 | 34.830 | 1.11 | 26.513 | 0.595 |
| 300 | 10.372 | 34.726 | 1.24 | 26.674 | 0.671 |
| 350 | 9.164 | 34.668 | 1.24 | 26.832 | 0.739 |
| 400 | 8.957 | 34.668 | 1.00 | 26.866 | 0.803 |
| 450 | 8.675 | 34.656 | 0.98 | 26.901 | 0.865 |
| 500 | 8.121 | 34.629 | 1.09 | 26.965 | 0.925 |
| 550 | 7.526 | 34.603 | 1.13 | 27.032 | 0.983 |
| 600 | 6.863 | 34.577 | 1.30 | 27.104 | 1.036 |
| 650 | 6.517 | 34.567 | 1.37 | 27.143 | 1.088 |
| 700 | 6.079 | 34.553 | 1.53 | 27.189 | 1.137 |
| 750 | 5.761 | 34.550 | 1.64 | 27.228 | 1.185 |
| 800 | 5.333 | 34.546 | 1.77 | 27.276 | 1.231 |
| 900 | 4.696 | 34.551 | 1.89 | 27.354 | 1.316 |
| 1000 | 4.540 | 34.552 | 1.89 | 27.372 | 1.397 |
| 1010 | 4.481 | 34.554 | 1.88 | 27.380 | 1.405 |

CAST EP1-88-OC -023 DATE 25 MAY 88 TIME 0536 GMT
LAT 01 29.6N LONG 140 00.3W

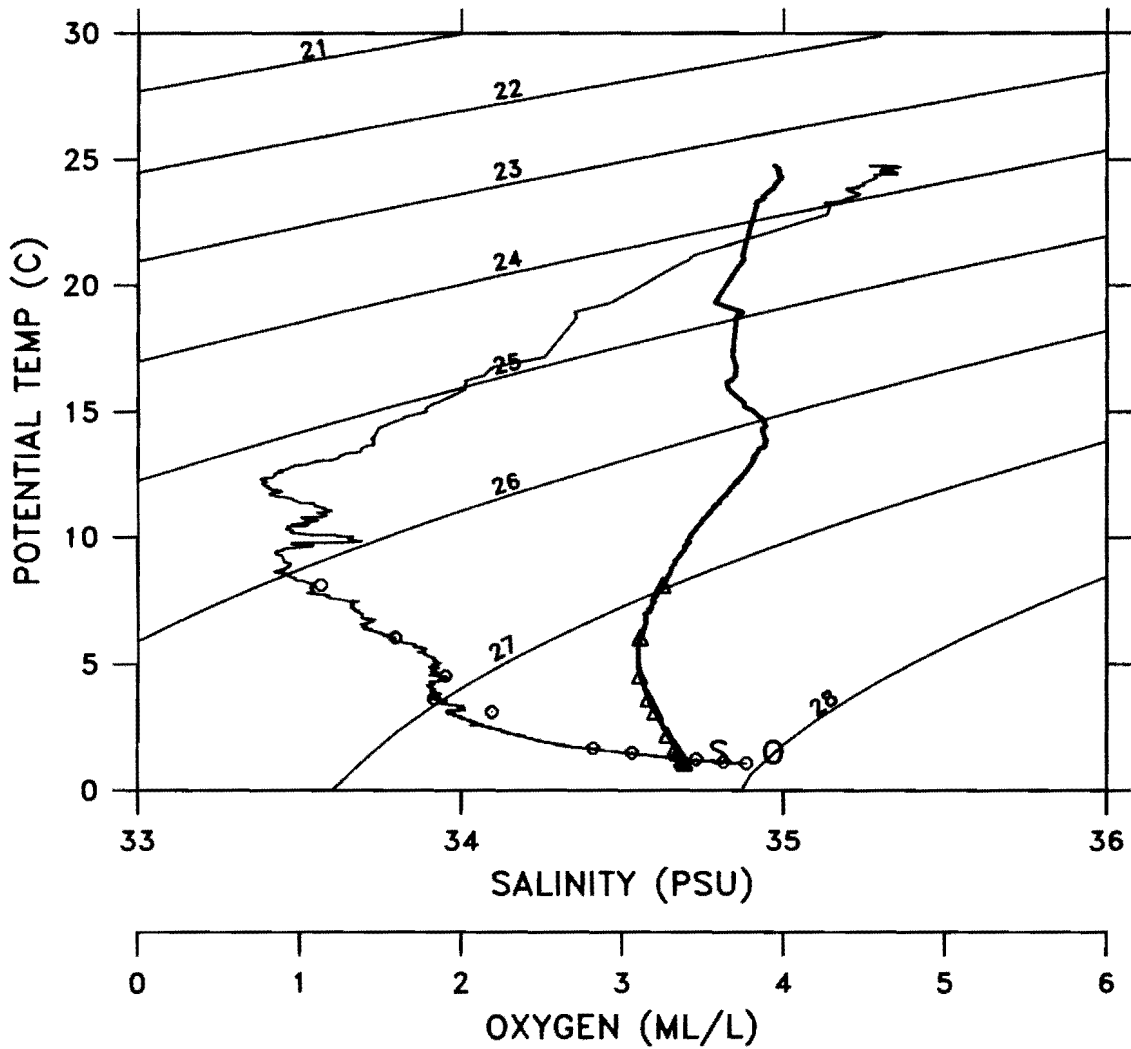


CAST EP1-88-OC -023 DATE 25 MAY 88 TIME 0536 GMT
 LAT 01 29.6N LONG 140 00.3W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 090 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 23.8 WET 21.7 DEPTH 4475 M

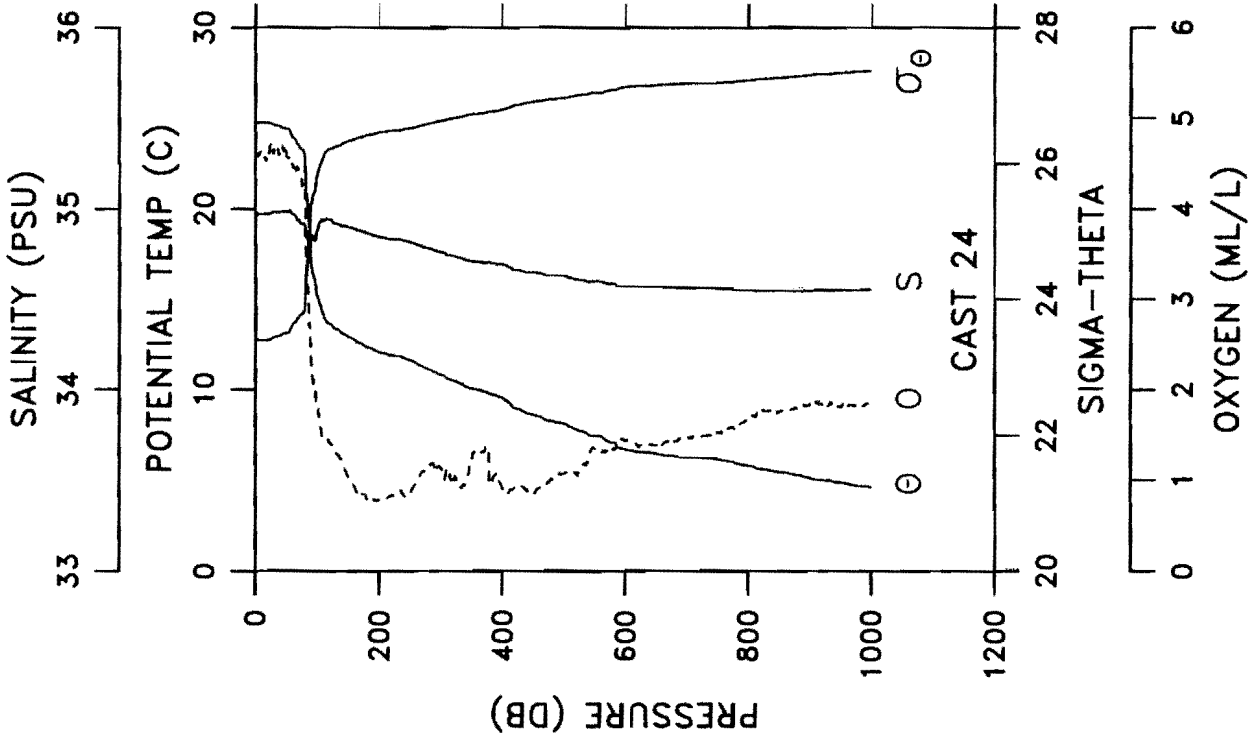


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.264 | 34.974 | 4.65 | 23.243 | 0.000 |
| 10 | 25.251 | 34.972 | 4.59 | 23.245 | 0.046 |
| 20 | 25.057 | 34.959 | 4.66 | 23.295 | 0.092 |
| 30 | 24.609 | 34.956 | 4.54 | 23.428 | 0.138 |
| 40 | 21.869 | 34.801 | 3.53 | 24.105 | 0.180 |
| 50 | 20.774 | 34.807 | 3.08 | 24.409 | 0.216 |
| 60 | 18.160 | 34.792 | 2.57 | 25.074 | 0.248 |
| 70 | 16.872 | 34.837 | 2.11 | 25.420 | 0.275 |
| 80 | 16.504 | 34.835 | 2.02 | 25.505 | 0.300 |
| 90 | 15.146 | 34.877 | 1.72 | 25.846 | 0.324 |
| 100 | 14.260 | 34.904 | 1.57 | 26.059 | 0.345 |
| 110 | 13.634 | 34.827 | 1.61 | 26.131 | 0.364 |
| 120 | 13.334 | 34.869 | 1.41 | 26.224 | 0.383 |
| 130 | 13.055 | 34.885 | 1.20 | 26.293 | 0.401 |
| 140 | 12.859 | 34.881 | 1.10 | 26.329 | 0.418 |
| 150 | 12.717 | 34.880 | 0.93 | 26.357 | 0.435 |
| 160 | 12.488 | 34.866 | 0.88 | 26.391 | 0.452 |
| 170 | 12.315 | 34.861 | 0.92 | 26.421 | 0.468 |
| 180 | 12.083 | 34.842 | 0.94 | 26.451 | 0.485 |
| 190 | 11.985 | 34.836 | 0.93 | 26.465 | 0.501 |
| 200 | 11.896 | 34.832 | 0.94 | 26.479 | 0.517 |
| 250 | 11.336 | 34.793 | 0.96 | 26.553 | 0.595 |
| 300 | 10.713 | 34.753 | 0.88 | 26.635 | 0.670 |
| 350 | 9.467 | 34.680 | 1.04 | 26.792 | 0.741 |
| 400 | 8.780 | 34.663 | 0.96 | 26.890 | 0.804 |
| 450 | 8.494 | 34.651 | 0.93 | 26.925 | 0.865 |
| 500 | 8.112 | 34.629 | 1.08 | 26.966 | 0.925 |
| 550 | 7.401 | 34.598 | 1.20 | 27.046 | 0.982 |
| 600 | 6.962 | 34.580 | 1.37 | 27.093 | 1.036 |
| 650 | 6.463 | 34.568 | 1.43 | 27.152 | 1.087 |
| 700 | 6.060 | 34.558 | 1.60 | 27.196 | 1.136 |
| 750 | 5.858 | 34.553 | 1.70 | 27.217 | 1.184 |
| 800 | 5.514 | 34.547 | 1.83 | 27.255 | 1.230 |
| 900 | 4.932 | 34.549 | 1.94 | 27.326 | 1.319 |
| 1000 | 4.521 | 34.557 | 1.87 | 27.378 | 1.400 |
| 1004 | 4.520 | 34.556 | 1.86 | 27.378 | 1.403 |

CAST EP1-88-OC -024 DATE 25 MAY 88 TIME 1040 GMT
LAT 02 01.1N LONG 139 58.6W

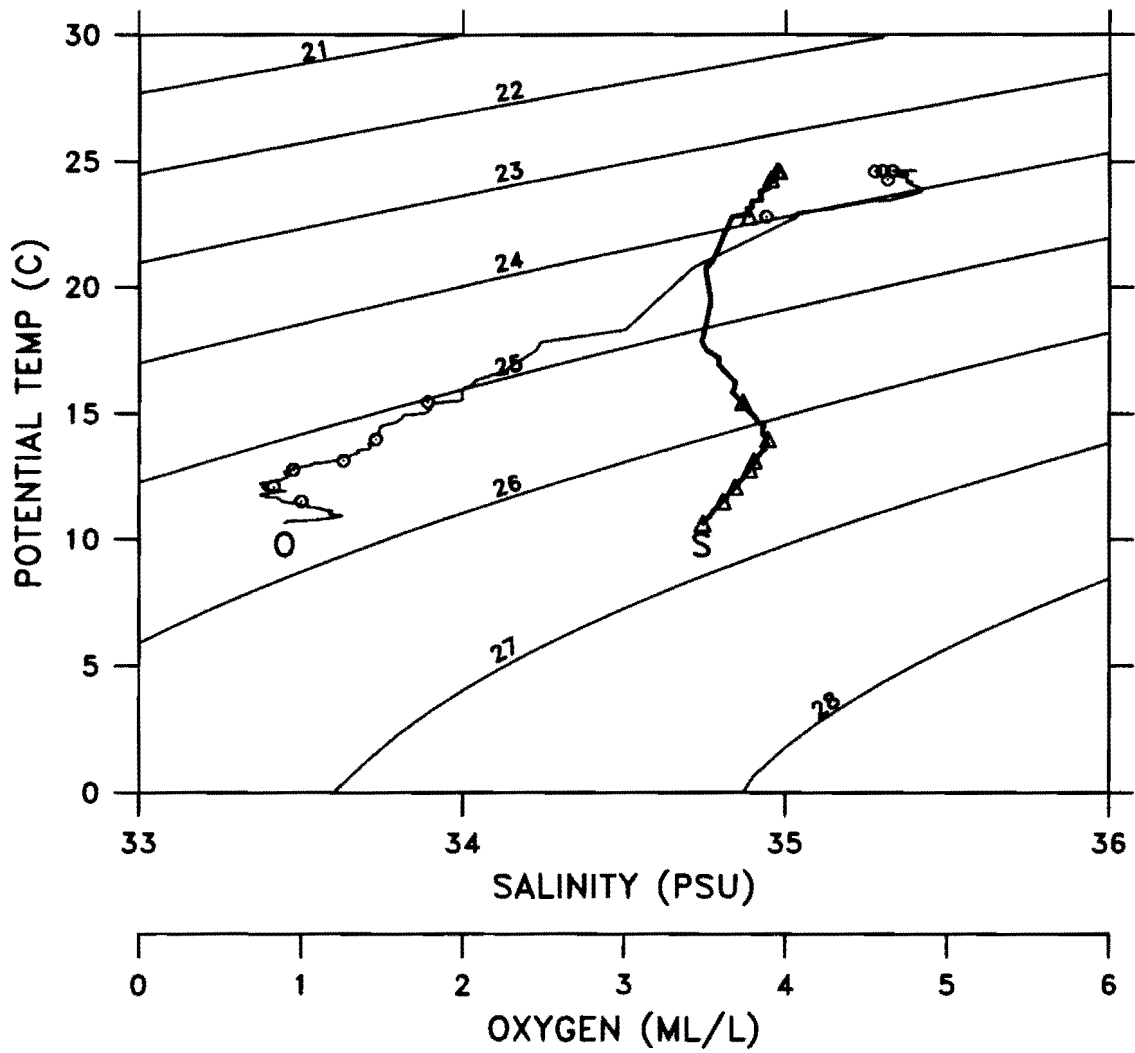


CAST EP1-88-OC -024 DATE 25 MAY 88 TIME 1040 GMT
 LAT 02 01.1N LONG 139 58.6W WEATHER 0 SEA STATE 3
 BAROMETER 11 WIND DIR 100 T SPD 12 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 23.5 WET 21.0 DEPTH 4377 M

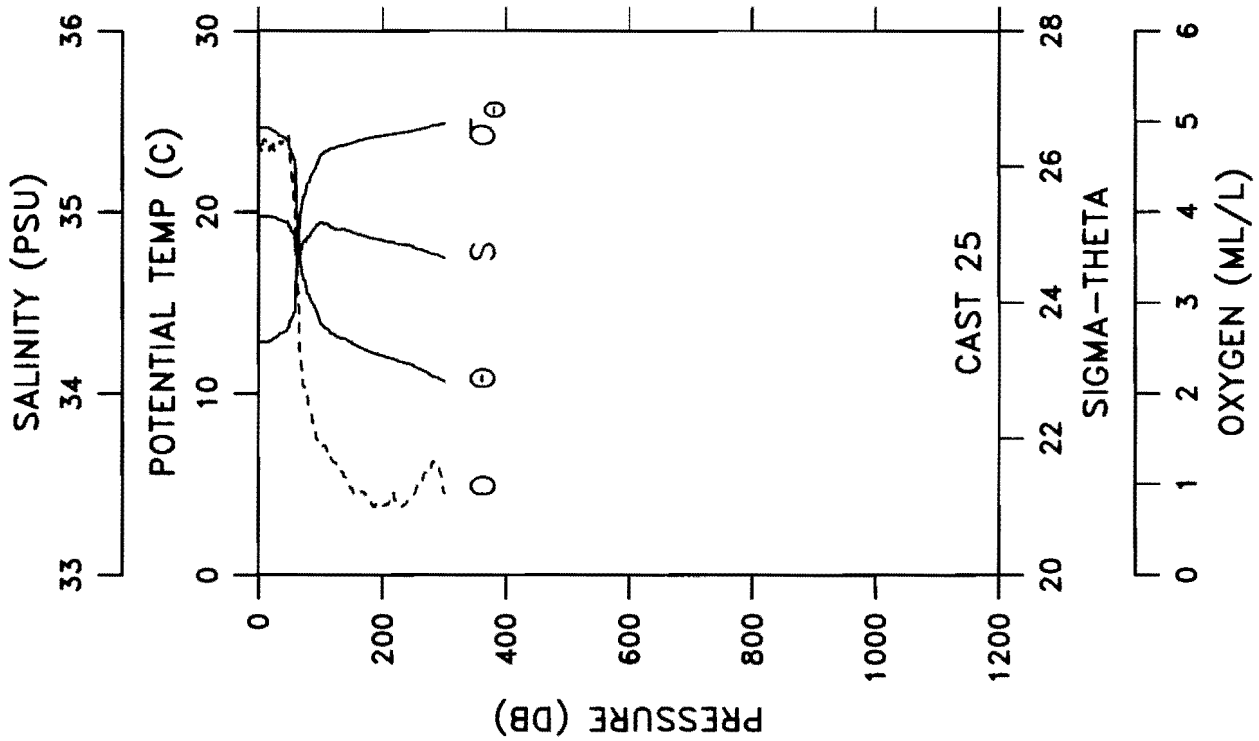


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 24.745 | 34.973 | 4.60 | 23.400 | 0.000 |
| 10 | 24.751 | 34.972 | 4.63 | 23.397 | 0.045 |
| 20 | 24.743 | 34.972 | 4.63 | 23.400 | 0.090 |
| 30 | 24.628 | 34.984 | 4.66 | 23.444 | 0.134 |
| 40 | 24.548 | 34.983 | 4.65 | 23.467 | 0.179 |
| 50 | 24.423 | 34.986 | 4.58 | 23.506 | 0.223 |
| 60 | 23.955 | 34.972 | 4.47 | 23.535 | 0.266 |
| 70 | 23.467 | 34.940 | 4.39 | 23.754 | 0.308 |
| 80 | 22.827 | 34.908 | 4.27 | 23.915 | 0.350 |
| 90 | 16.966 | 34.847 | 2.36 | 25.405 | 0.382 |
| 100 | 15.185 | 34.877 | 1.78 | 25.837 | 0.406 |
| 110 | 14.144 | 34.936 | 1.47 | 26.108 | 0.427 |
| 120 | 13.666 | 34.942 | 1.42 | 26.212 | 0.445 |
| 130 | 13.377 | 34.918 | 1.31 | 26.253 | 0.463 |
| 140 | 13.116 | 34.903 | 1.21 | 26.295 | 0.481 |
| 150 | 12.922 | 34.898 | 1.04 | 26.330 | 0.499 |
| 160 | 12.767 | 34.888 | 0.93 | 26.354 | 0.516 |
| 170 | 12.593 | 34.881 | 0.88 | 26.383 | 0.533 |
| 180 | 12.378 | 34.866 | 0.78 | 26.413 | 0.549 |
| 190 | 12.243 | 34.851 | 0.77 | 26.427 | 0.566 |
| 200 | 12.087 | 34.848 | 0.78 | 26.455 | 0.582 |
| 250 | 11.635 | 34.816 | 0.84 | 26.516 | 0.662 |
| 300 | 10.817 | 34.760 | 1.14 | 26.622 | 0.738 |
| 350 | 10.048 | 34.711 | 1.23 | 26.719 | 0.810 |
| 400 | 9.545 | 34.695 | 0.91 | 26.791 | 0.879 |
| 450 | 8.624 | 34.649 | 0.84 | 26.903 | 0.942 |
| 500 | 8.152 | 34.632 | 1.07 | 26.962 | 1.002 |
| 550 | 7.469 | 34.600 | 1.36 | 27.037 | 1.060 |
| 600 | 6.702 | 34.572 | 1.44 | 27.123 | 1.113 |
| 650 | 6.491 | 34.570 | 1.40 | 27.149 | 1.164 |
| 700 | 6.262 | 34.564 | 1.48 | 27.175 | 1.214 |
| 750 | 6.157 | 34.561 | 1.54 | 27.186 | 1.263 |
| 800 | 5.799 | 34.552 | 1.68 | 27.224 | 1.312 |
| 900 | 5.138 | 34.548 | 1.83 | 27.301 | 1.403 |
| 1000 | 4.625 | 34.556 | 1.83 | 27.366 | 1.487 |
| 1500 | 3.100 | 34.603 | 1.92 | 27.559 | 1.843 |
| 2000 | 2.221 | 34.640 | 2.31 | 27.665 | 2.131 |
| 2500 | 1.678 | 34.666 | 2.72 | 27.729 | 2.381 |
| 3000 | 1.488 | 34.674 | 2.99 | 27.749 | 2.613 |
| 3500 | 1.242 | 34.687 | 3.31 | 27.778 | 2.840 |
| 4000 | 1.118 | 34.694 | 3.59 | 27.791 | 3.056 |
| 4443 | 1.058 | 34.696 | 3.74 | 27.797 | 3.251 |

CAST EP1-88-OC -025 DATE 25 MAY 88 TIME 1327 GMT
LAT 02 01.0N LONG 139 58.5W

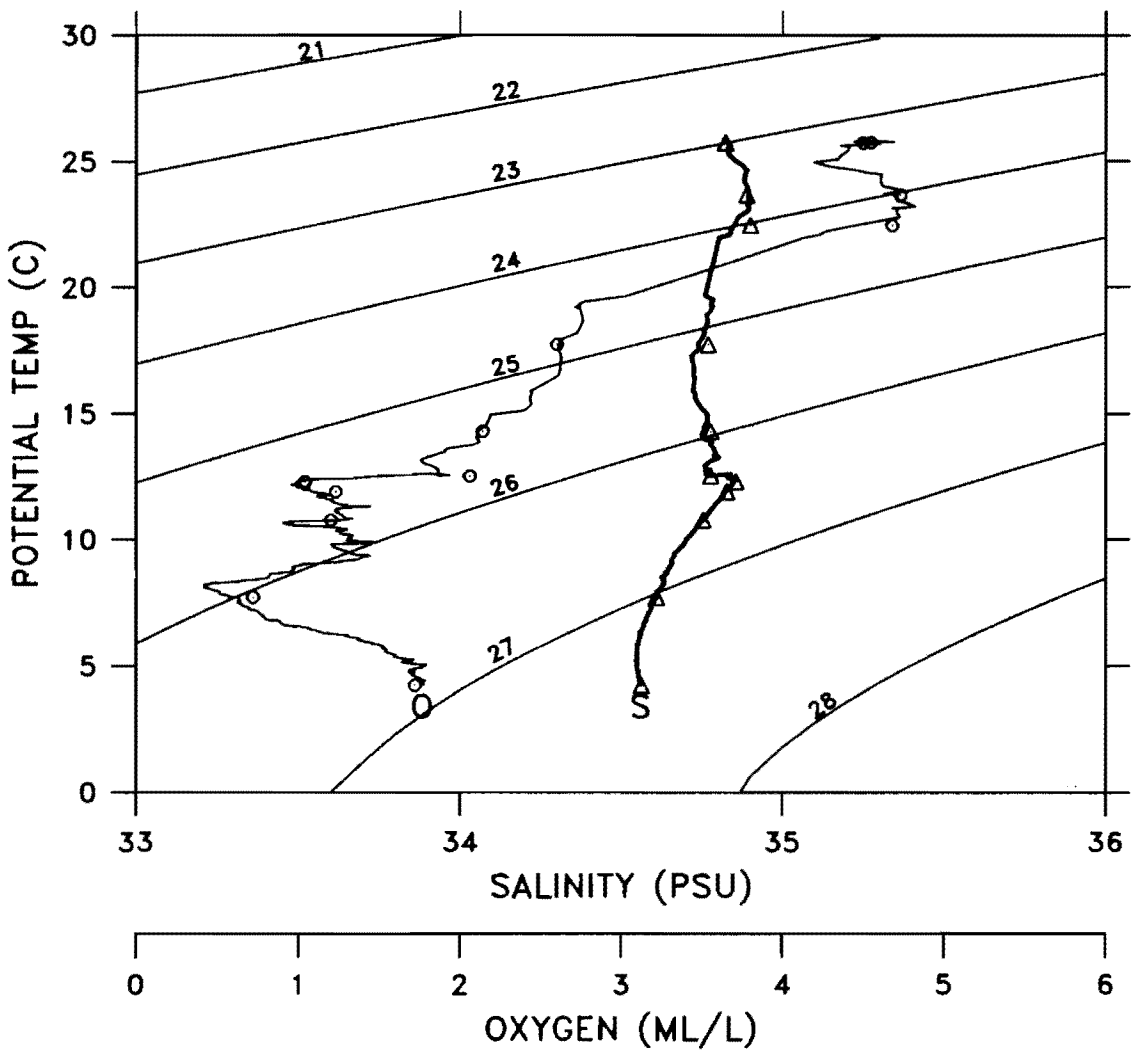


CAST EPI-88-OC -025 DATE 25 MAY 88 TIME 1327 GMT
 LAT 02 01.0N LONG 139 58.5W WEATHER 2 SEA STATE 3
 BAROMETER 10 WIND DIR 120 T SPD 14 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 23.8 WET 22.1 DEPTH 4371 M

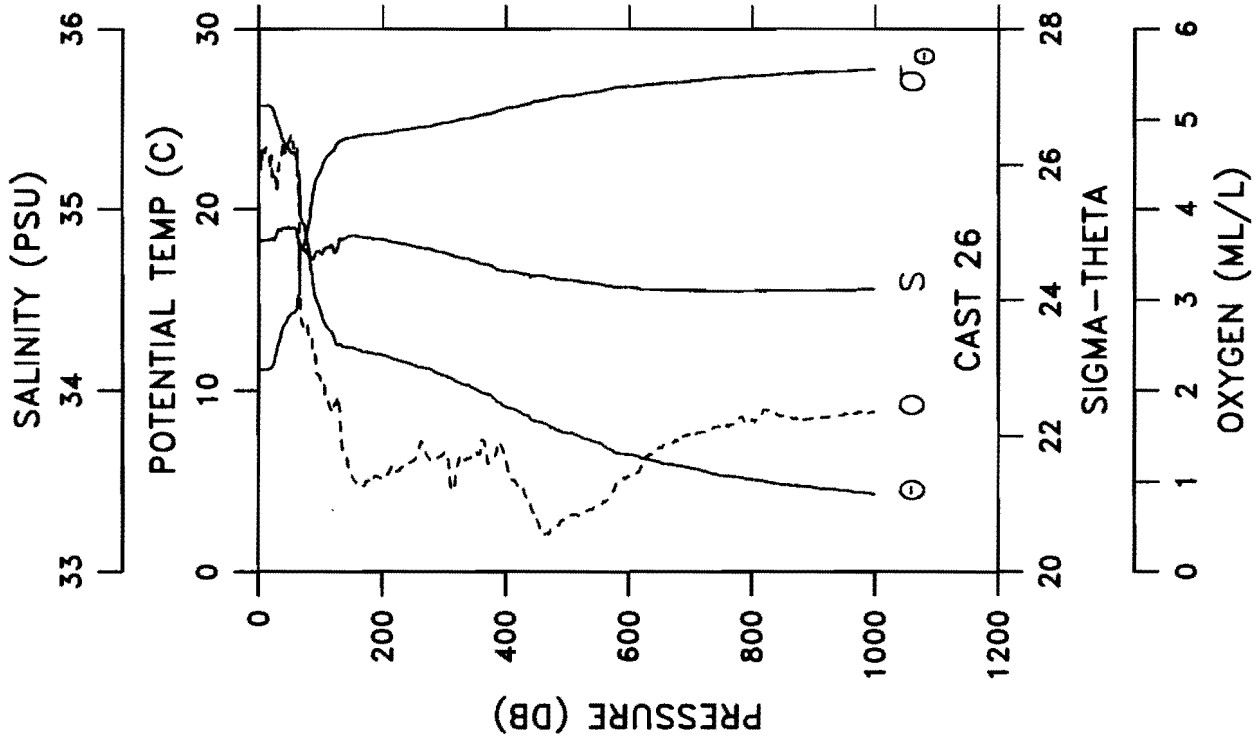


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.645 | 34.977 | 4.75 | 23.433 | 0.000 |
| 10 | 24.646 | 34.976 | 4.81 | 23.432 | 0.044 |
| 20 | 24.589 | 34.973 | 4.73 | 23.447 | 0.089 |
| 30 | 24.372 | 34.962 | 4.74 | 23.504 | 0.133 |
| 40 | 24.134 | 34.949 | 4.77 | 23.565 | 0.177 |
| 50 | 23.467 | 34.925 | 4.65 | 23.743 | 0.219 |
| 60 | 20.990 | 34.772 | 3.49 | 24.325 | 0.260 |
| 70 | 16.680 | 34.809 | 2.26 | 25.444 | 0.291 |
| 80 | 15.480 | 34.866 | 1.92 | 25.763 | 0.314 |
| 90 | 14.801 | 34.908 | 1.62 | 25.946 | 0.336 |
| 100 | 13.875 | 34.938 | 1.43 | 26.166 | 0.356 |
| 110 | 13.585 | 34.936 | 1.39 | 26.225 | 0.374 |
| 120 | 13.293 | 34.913 | 1.26 | 26.267 | 0.392 |
| 130 | 13.091 | 34.902 | 1.16 | 26.299 | 0.410 |
| 140 | 13.023 | 34.903 | 1.08 | 26.314 | 0.427 |
| 150 | 12.836 | 34.889 | 0.95 | 26.340 | 0.445 |
| 160 | 12.614 | 34.877 | 0.91 | 26.375 | 0.461 |
| 170 | 12.452 | 34.868 | 0.90 | 26.400 | 0.478 |
| 180 | 12.278 | 34.856 | 0.80 | 26.425 | 0.495 |
| 190 | 12.181 | 34.851 | 0.78 | 26.439 | 0.511 |
| 200 | 12.085 | 34.843 | 0.77 | 26.452 | 0.527 |
| 250 | 11.556 | 34.804 | 0.87 | 26.522 | 0.607 |
| 300 | 10.677 | 34.746 | 0.91 | 26.636 | 0.683 |
| 301 | 10.645 | 34.744 | 0.90 | 26.640 | 0.684 |

CAST EP1-88-OC -026 DATE 26 MAY 88 TIME 1506 GMT
LAT 02 59.2N LONG 140 00.5W



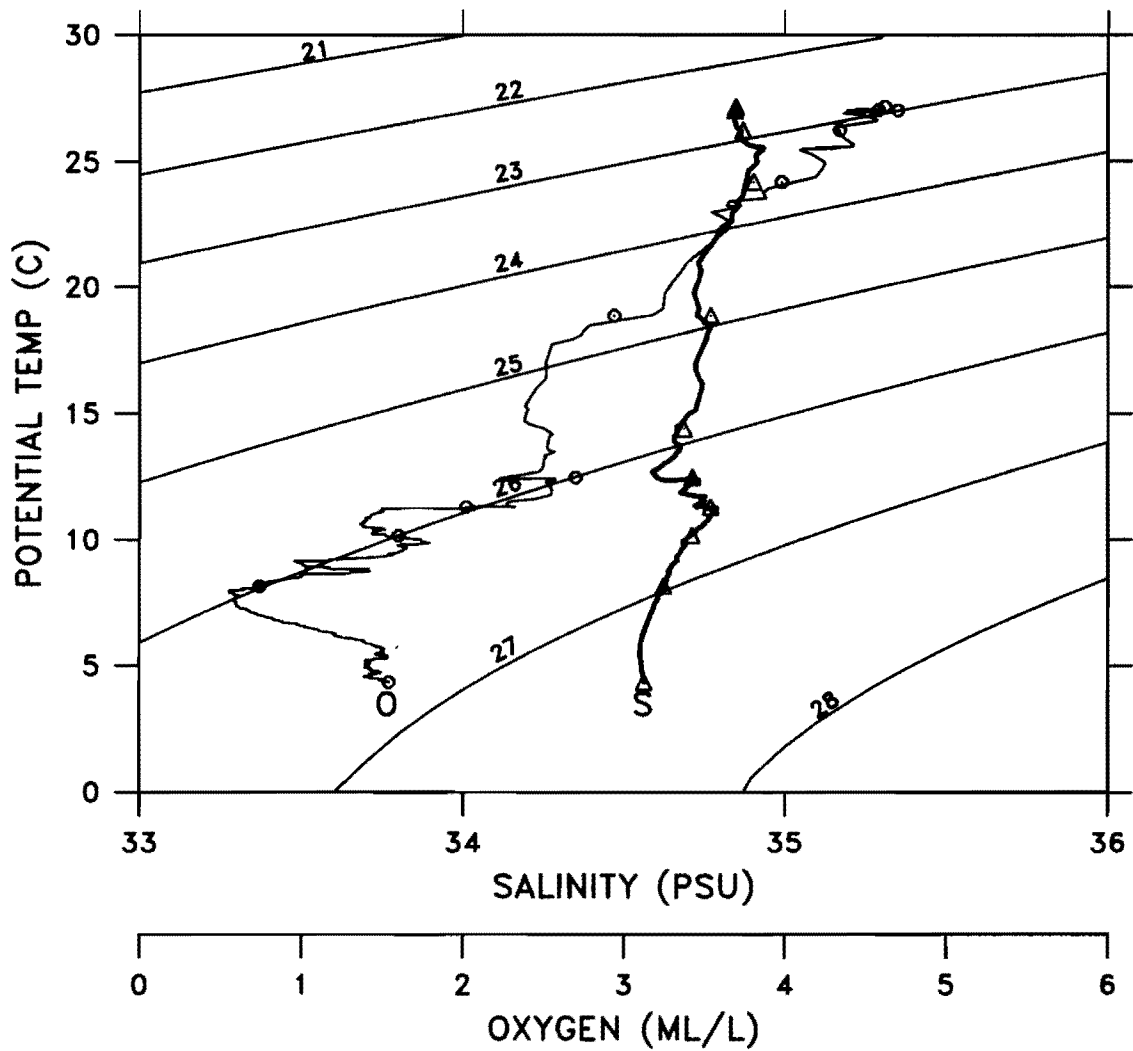
CAST EP1-88-OC -026 DATE 26 MAY 88 TIME 1506 GMT
 LAT 02 59.2N LONG 140 00.5W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 135 T SPD 15 KT VISIBILITY 8
 CLOUD 9 AMOUNT 4 DRY 24.1 WET 21.9 DEPTH 4303 M



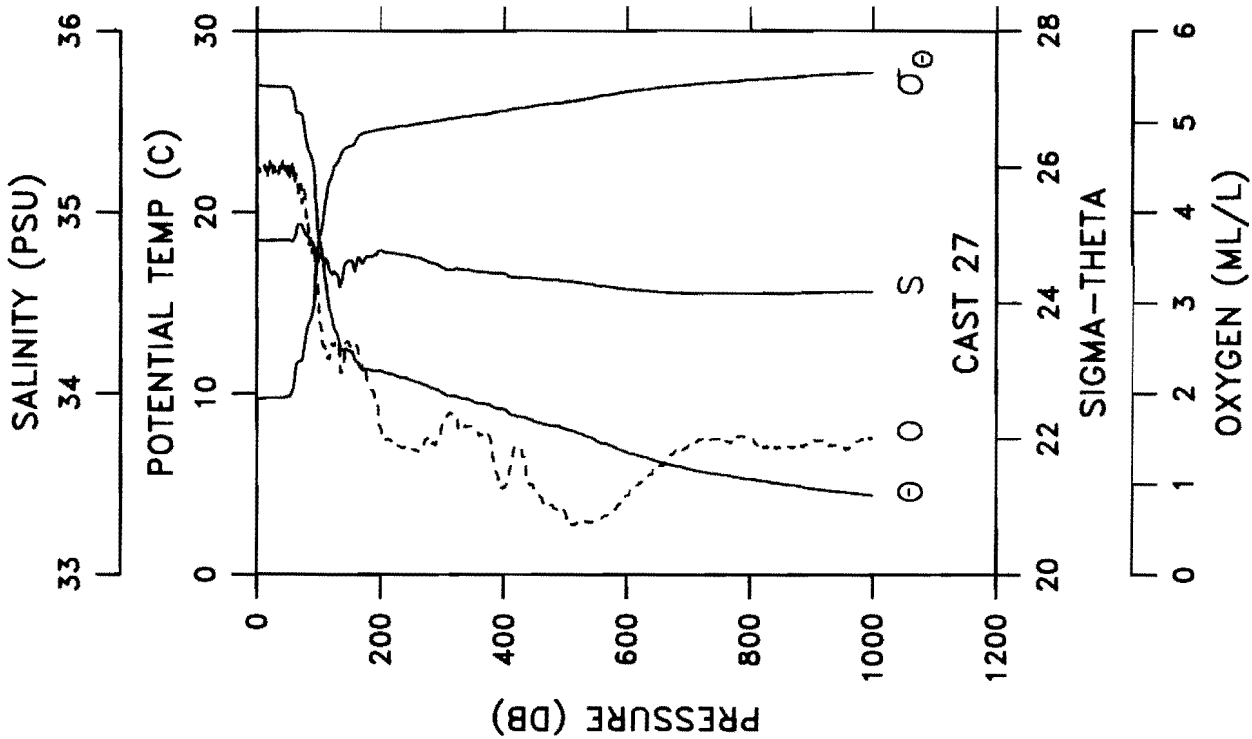
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.779 | 34.822 | 4.45 | 22.970 | 0.000 |
| 10 | 25.767 | 34.828 | 4.63 | 22.978 | 0.049 |
| 20 | 25.705 | 34.832 | 4.57 | 23.000 | 0.098 |
| 30 | 24.813 | 34.878 | 4.28 | 23.308 | 0.145 |
| 40 | 23.795 | 34.895 | 4.77 | 23.624 | 0.189 |
| 50 | 23.281 | 34.896 | 4.79 | 23.775 | 0.232 |
| 60 | 23.016 | 34.894 | 4.71 | 23.850 | 0.273 |
| 70 | 19.322 | 34.778 | 2.74 | 24.770 | 0.309 |
| 80 | 17.913 | 34.748 | 2.61 | 25.101 | 0.340 |
| 90 | 15.358 | 34.740 | 2.44 | 25.693 | 0.366 |
| 100 | 14.394 | 34.756 | 2.13 | 25.916 | 0.388 |
| 110 | 13.530 | 34.790 | 1.90 | 26.123 | 0.408 |
| 120 | 13.131 | 34.780 | 1.76 | 26.196 | 0.427 |
| 130 | 12.594 | 34.839 | 1.84 | 26.349 | 0.444 |
| 140 | 12.413 | 34.839 | 1.29 | 26.385 | 0.461 |
| 150 | 12.387 | 34.855 | 1.12 | 26.402 | 0.478 |
| 160 | 12.279 | 34.850 | 0.99 | 26.419 | 0.494 |
| 170 | 12.140 | 34.842 | 0.96 | 26.440 | 0.510 |
| 180 | 12.116 | 34.841 | 1.00 | 26.444 | 0.527 |
| 190 | 12.038 | 34.836 | 1.07 | 26.455 | 0.543 |
| 200 | 11.982 | 34.833 | 1.02 | 26.463 | 0.559 |
| 250 | 11.444 | 34.797 | 1.23 | 26.536 | 0.638 |
| 300 | 10.833 | 34.760 | 1.33 | 26.619 | 0.714 |
| 350 | 10.123 | 34.712 | 1.33 | 26.707 | 0.786 |
| 400 | 9.106 | 34.657 | 1.27 | 26.833 | 0.854 |
| 450 | 8.310 | 34.632 | 0.57 | 26.938 | 0.917 |
| 500 | 7.691 | 34.608 | 0.62 | 27.012 | 0.975 |
| 550 | 7.153 | 34.589 | 0.75 | 27.074 | 1.030 |
| 600 | 6.506 | 34.569 | 1.06 | 27.146 | 1.081 |
| 650 | 6.086 | 34.557 | 1.38 | 27.192 | 1.130 |
| 700 | 5.756 | 34.550 | 1.51 | 27.228 | 1.177 |
| 750 | 5.344 | 34.549 | 1.59 | 27.278 | 1.223 |
| 800 | 5.122 | 34.549 | 1.68 | 27.304 | 1.267 |
| 900 | 4.702 | 34.554 | 1.70 | 27.355 | 1.350 |
| 1000 | 4.357 | 34.560 | 1.76 | 27.398 | 1.430 |
| 1017 | 4.265 | 34.562 | 1.76 | 27.410 | 1.443 |

CAST EP1-88-OC -027 DATE 26 MAY 88 TIME 2106 GMT

LAT 03 59.6N LONG 140 00.2W

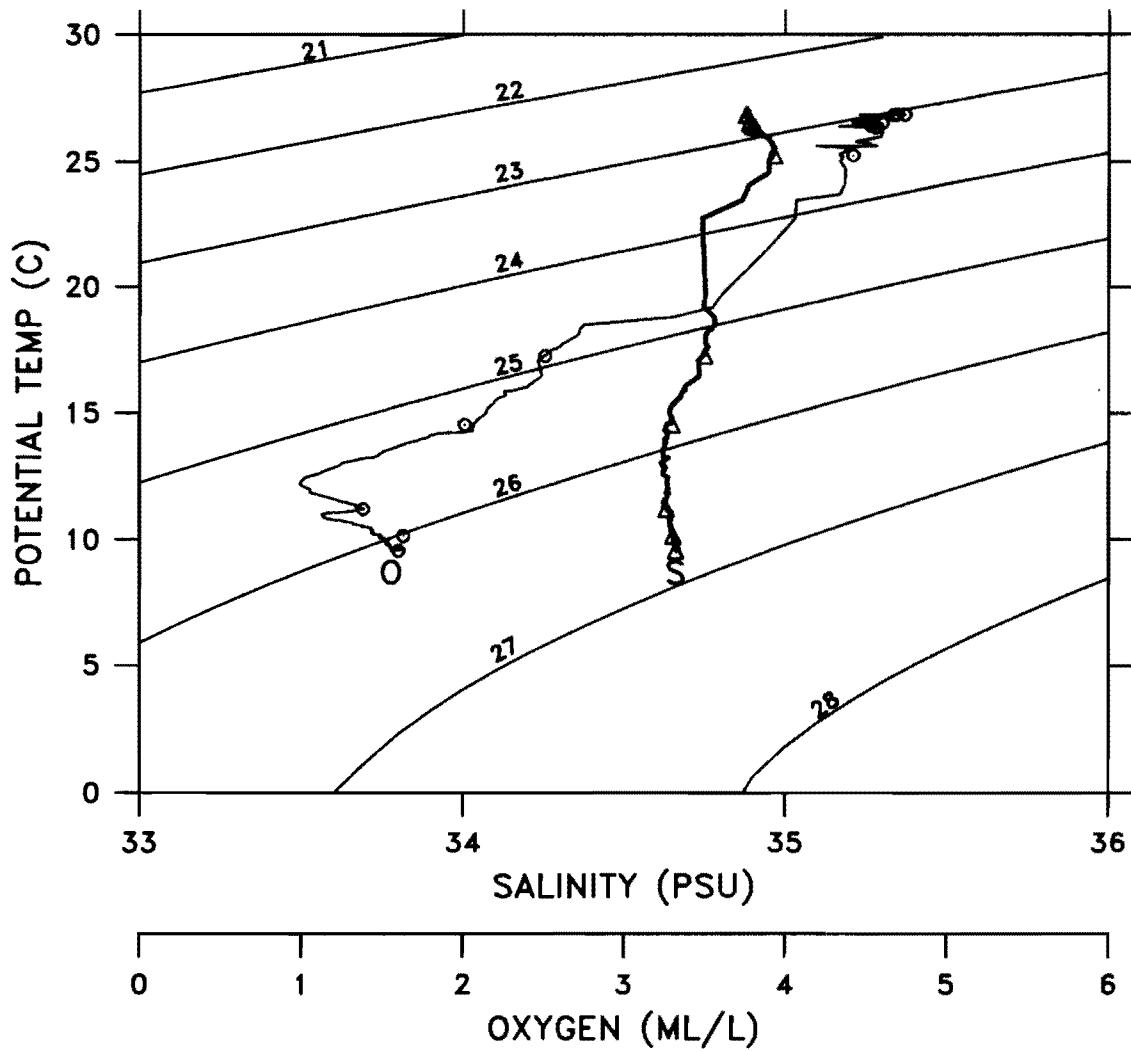


CAST EP1-88-OC -027 DATE 26 MAY 88 TIME 2106 GMT
 LAT 03 59.6N LONG 140 00.2W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 135 T SPD 12 KT VISIBILITY 8
 CLOUD 7 AMOUNT 6 DRY 26.8 WET 23.1 DEPTH 4356 M

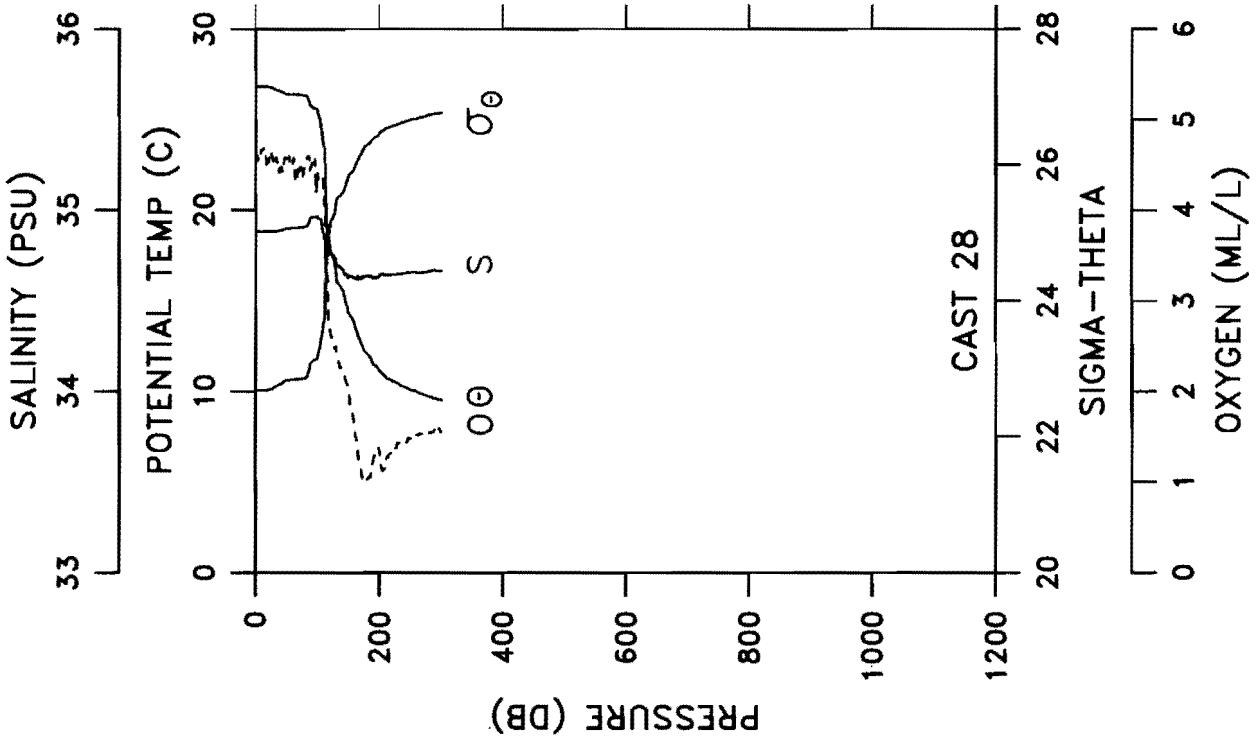


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.055 | 34.847 | 4.49 | 22.587 | 0.000 |
| 10 | 27.025 | 34.844 | 4.53 | 22.594 | 0.053 |
| 20 | 27.001 | 34.846 | 4.51 | 22.604 | 0.105 |
| 30 | 26.993 | 34.846 | 4.46 | 22.606 | 0.157 |
| 40 | 26.984 | 34.847 | 4.51 | 22.609 | 0.210 |
| 50 | 26.953 | 34.847 | 4.44 | 22.620 | 0.262 |
| 60 | 26.336 | 34.849 | 4.32 | 22.817 | 0.314 |
| 70 | 25.503 | 34.933 | 4.30 | 23.139 | 0.363 |
| 80 | 23.941 | 34.874 | 3.90 | 23.565 | 0.409 |
| 90 | 22.786 | 34.835 | 3.62 | 23.871 | 0.451 |
| 100 | 18.672 | 34.747 | 2.98 | 24.912 | 0.487 |
| 110 | 16.363 | 34.735 | 2.52 | 25.461 | 0.515 |
| 120 | 14.409 | 34.666 | 2.50 | 25.843 | 0.538 |
| 130 | 13.251 | 34.654 | 2.51 | 26.075 | 0.559 |
| 140 | 12.393 | 34.687 | 2.32 | 26.271 | 0.577 |
| 150 | 12.312 | 34.730 | 2.52 | 26.320 | 0.595 |
| 160 | 11.769 | 34.706 | 2.54 | 26.405 | 0.612 |
| 170 | 11.301 | 34.720 | 2.30 | 26.503 | 0.628 |
| 180 | 11.317 | 34.757 | 2.12 | 26.529 | 0.644 |
| 190 | 11.230 | 34.765 | 1.98 | 26.551 | 0.659 |
| 200 | 11.235 | 34.789 | 1.63 | 26.569 | 0.674 |
| 250 | 10.719 | 34.757 | 1.39 | 26.638 | 0.748 |
| 300 | 10.049 | 34.697 | 1.66 | 26.707 | 0.819 |
| 350 | 9.560 | 34.678 | 1.62 | 26.775 | 0.888 |
| 400 | 9.132 | 34.664 | 0.97 | 26.834 | 0.953 |
| 450 | 8.461 | 34.635 | 0.93 | 26.918 | 1.016 |
| 500 | 8.063 | 34.623 | 0.70 | 26.968 | 1.076 |
| 550 | 7.417 | 34.595 | 0.60 | 27.041 | 1.133 |
| 600 | 6.764 | 34.575 | 0.86 | 27.117 | 1.186 |
| 650 | 6.264 | 34.562 | 1.21 | 27.173 | 1.237 |
| 700 | 5.857 | 34.554 | 1.42 | 27.219 | 1.285 |
| 750 | 5.553 | 34.551 | 1.50 | 27.253 | 1.331 |
| 800 | 5.271 | 34.552 | 1.53 | 27.288 | 1.375 |
| 900 | 4.757 | 34.557 | 1.48 | 27.352 | 1.460 |
| 1000 | 4.384 | 34.563 | 1.50 | 27.398 | 1.540 |
| 1013 | 4.344 | 34.565 | 1.53 | 27.404 | 1.550 |

CAST EP1-88-OC -028 DATE 27 MAY 88 TIME 1113 GMT
LAT 05 00.1N LONG 140 00.5W

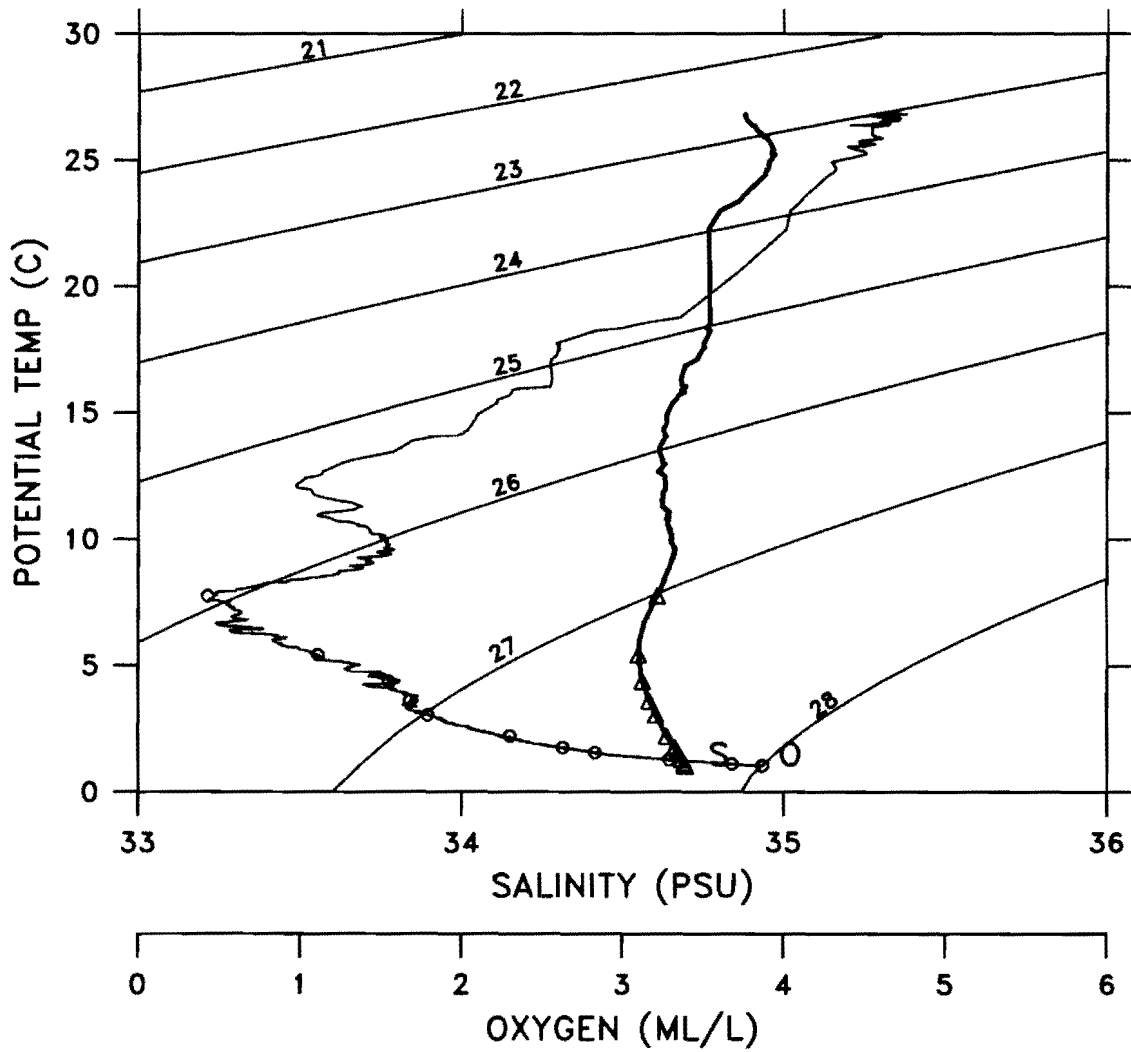


CAST EP1-88-OC -028 DATE 27 MAY 88 TIME 1113 GMT
 LAT 05 00.1N LONG 140 00.5W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 130 T SPD 08 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 25.6 WET 23.0 DEPTH 4444 M

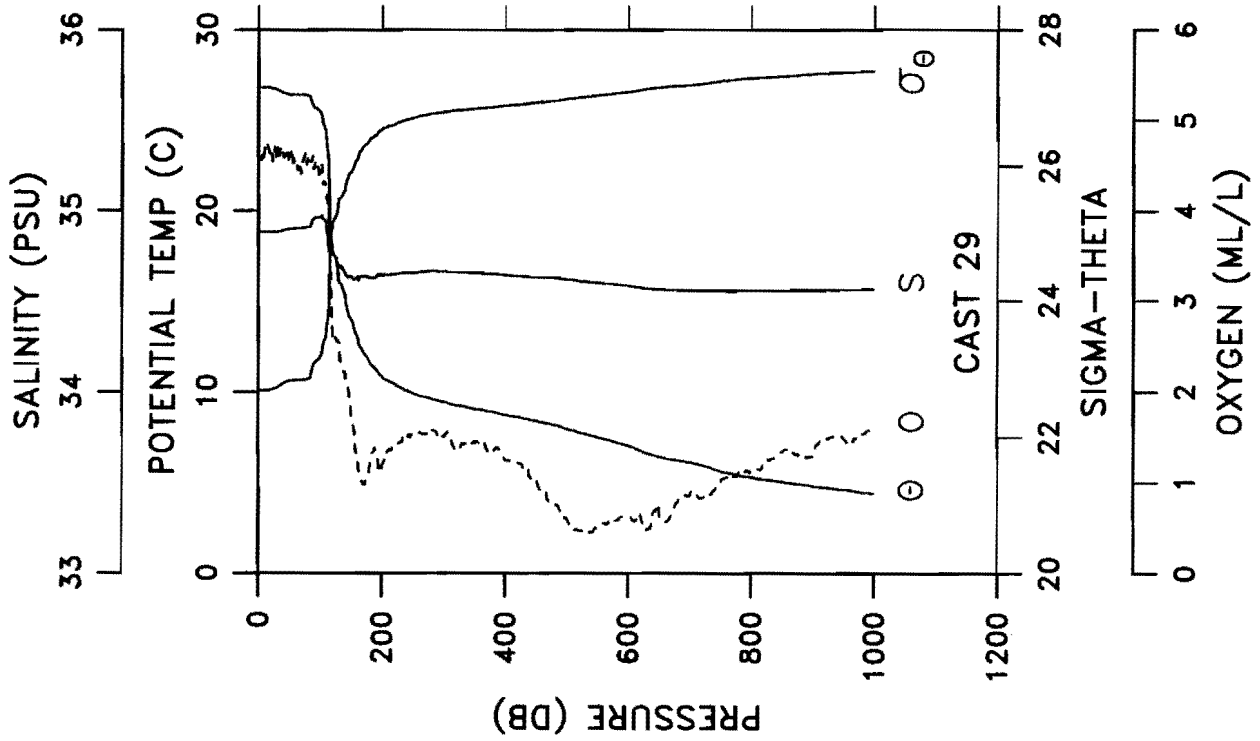


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.836 | 34.881 | 4.60 | 22.682 | 0.000 |
| 10 | 26.838 | 34.881 | 4.66 | 22.682 | 0.052 |
| 20 | 26.832 | 34.881 | 4.55 | 22.684 | 0.103 |
| 30 | 26.706 | 34.881 | 4.53 | 22.724 | 0.155 |
| 40 | 26.559 | 34.887 | 4.42 | 22.774 | 0.206 |
| 50 | 26.412 | 34.898 | 4.52 | 22.830 | 0.257 |
| 60 | 26.393 | 34.900 | 4.52 | 22.837 | 0.307 |
| 70 | 26.373 | 34.903 | 4.41 | 22.845 | 0.357 |
| 80 | 26.340 | 34.909 | 4.49 | 22.860 | 0.408 |
| 90 | 25.724 | 34.958 | 4.50 | 23.089 | 0.457 |
| 100 | 25.526 | 34.967 | 4.42 | 23.157 | 0.505 |
| 110 | 23.591 | 34.871 | 4.20 | 23.666 | 0.550 |
| 120 | 18.100 | 34.754 | 2.72 | 25.060 | 0.584 |
| 130 | 16.450 | 34.734 | 2.49 | 25.440 | 0.612 |
| 140 | 15.630 | 34.675 | 2.24 | 25.583 | 0.637 |
| 150 | 14.306 | 34.625 | 2.06 | 25.833 | 0.660 |
| 160 | 13.676 | 34.625 | 1.59 | 25.965 | 0.682 |
| 170 | 12.732 | 34.622 | 1.14 | 26.154 | 0.702 |
| 180 | 12.060 | 34.635 | 1.03 | 26.295 | 0.720 |
| 190 | 11.507 | 34.623 | 1.25 | 26.389 | 0.737 |
| 200 | 11.143 | 34.635 | 1.34 | 26.466 | 0.753 |
| 250 | 10.092 | 34.654 | 1.48 | 26.667 | 0.828 |
| 300 | 9.537 | 34.663 | 1.55 | 26.767 | 0.897 |
| 301 | 9.534 | 34.663 | 1.55 | 26.768 | 0.898 |

CAST EP1-88-OC -029 DATE 27 MAY 88 TIME 1418 GMT
LAT 04 59.0N LONG 139 59.8W

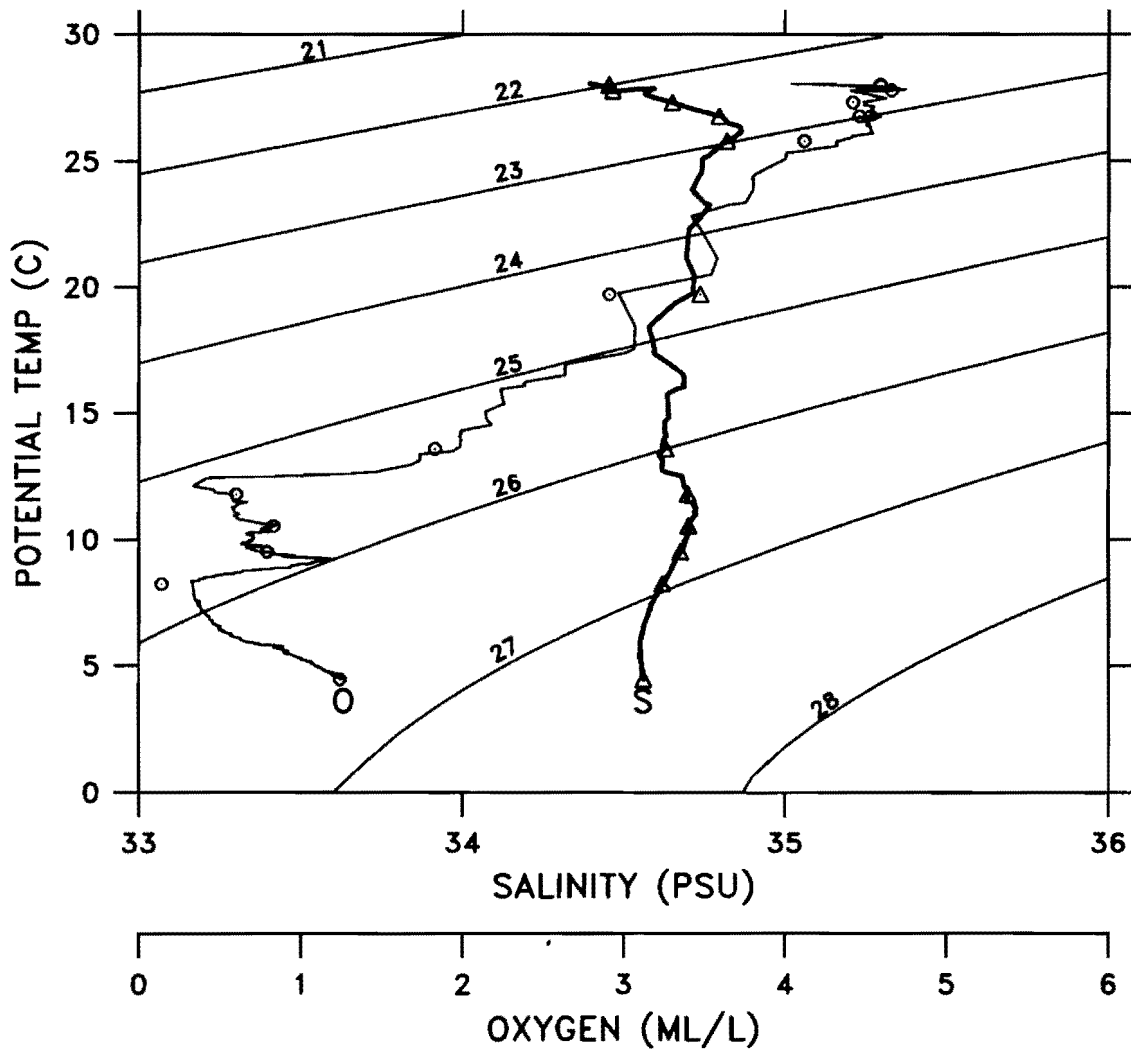


CAST EP1-88-0C -029 DATE 27 MAY 88 TIME 1418 GMT
 LAT 04 59.0N LONG 139 59.8W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 145 T SPD 08 KT VISIBILITY 8
 CLOUD 4 AMOUNT 2 DRY 25.2 WET 22.9 DEPTH 4450 M

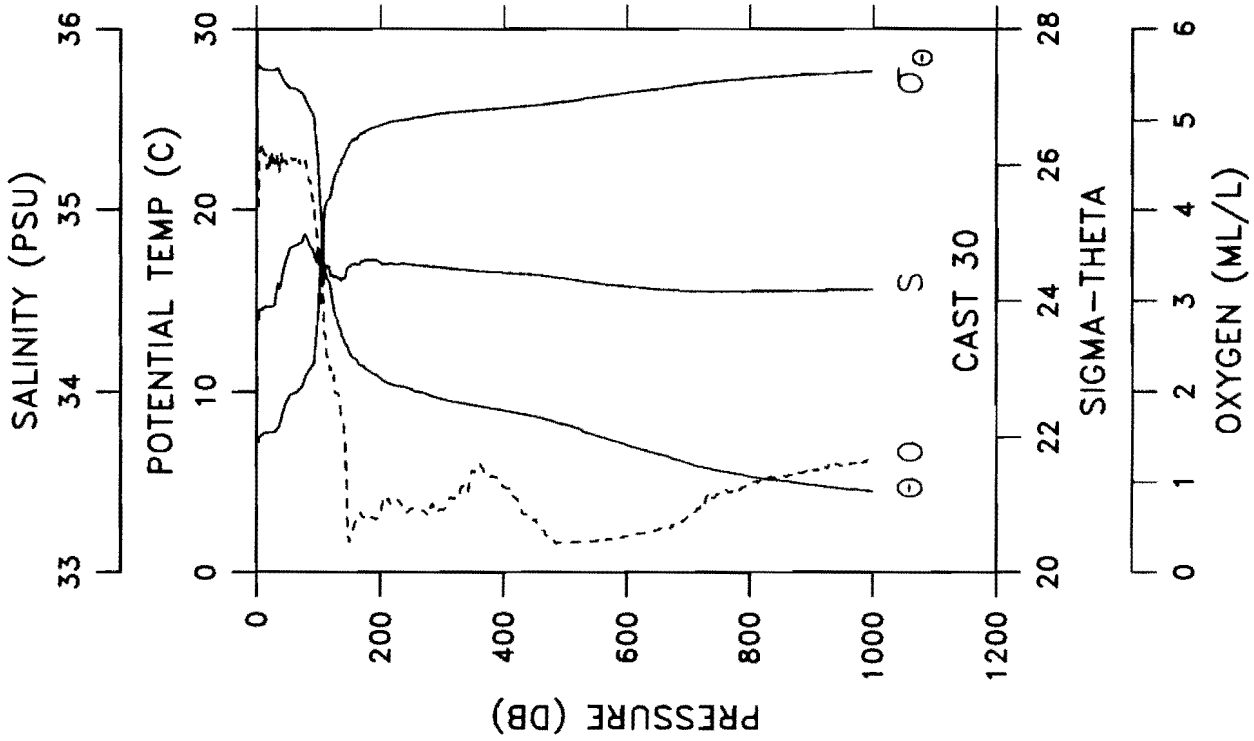


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 26.817 | 34.880 | 4.57 | 22.688 | 0.000 |
| 10 | 26.822 | 34.880 | 4.69 | 22.686 | 0.052 |
| 20 | 26.784 | 34.880 | 4.65 | 22.698 | 0.103 |
| 30 | 26.696 | 34.880 | 4.62 | 22.726 | 0.155 |
| 40 | 26.521 | 34.889 | 4.64 | 22.788 | 0.206 |
| 50 | 26.415 | 34.897 | 4.57 | 22.828 | 0.256 |
| 60 | 26.394 | 34.900 | 4.54 | 22.836 | 0.307 |
| 70 | 26.384 | 34.902 | 4.48 | 22.841 | 0.357 |
| 80 | 26.360 | 34.908 | 4.59 | 22.853 | 0.407 |
| 90 | 25.730 | 34.955 | 4.46 | 23.085 | 0.457 |
| 100 | 25.424 | 34.967 | 4.44 | 23.189 | 0.505 |
| 110 | 24.016 | 34.907 | 4.21 | 23.568 | 0.550 |
| 120 | 17.740 | 34.752 | 2.59 | 25.147 | 0.586 |
| 130 | 16.022 | 34.686 | 2.55 | 25.502 | 0.613 |
| 140 | 15.381 | 34.656 | 2.22 | 25.623 | 0.638 |
| 150 | 13.985 | 34.631 | 1.77 | 25.906 | 0.660 |
| 160 | 13.028 | 34.623 | 1.27 | 26.096 | 0.681 |
| 170 | 12.172 | 34.634 | 0.98 | 26.272 | 0.699 |
| 180 | 11.612 | 34.625 | 1.17 | 26.371 | 0.717 |
| 190 | 11.254 | 34.629 | 1.36 | 26.441 | 0.733 |
| 200 | 10.827 | 34.635 | 1.18 | 26.523 | 0.749 |
| 250 | 9.920 | 34.651 | 1.54 | 26.694 | 0.822 |
| 300 | 9.437 | 34.660 | 1.50 | 26.781 | 0.890 |
| 350 | 9.061 | 34.650 | 1.45 | 26.835 | 0.955 |
| 400 | 8.739 | 34.641 | 1.25 | 26.879 | 1.018 |
| 450 | 8.414 | 34.630 | 1.05 | 26.921 | 1.079 |
| 500 | 7.960 | 34.616 | 0.61 | 26.978 | 1.139 |
| 550 | 7.511 | 34.598 | 0.50 | 27.030 | 1.196 |
| 600 | 7.059 | 34.583 | 0.64 | 27.082 | 1.250 |
| 650 | 6.425 | 34.563 | 0.76 | 27.152 | 1.302 |
| 700 | 6.116 | 34.557 | 0.85 | 27.188 | 1.352 |
| 750 | 5.629 | 34.550 | 0.99 | 27.243 | 1.399 |
| 800 | 5.302 | 34.553 | 1.13 | 27.285 | 1.444 |
| 900 | 4.803 | 34.556 | 1.29 | 27.346 | 1.529 |
| 1000 | 4.400 | 34.562 | 1.60 | 27.395 | 1.610 |
| 1500 | 3.034 | 34.605 | 1.78 | 27.567 | 1.959 |
| 2000 | 2.163 | 34.640 | 2.25 | 27.670 | 2.246 |
| 2500 | 1.732 | 34.663 | 2.61 | 27.722 | 2.493 |
| 3000 | 1.530 | 34.673 | 2.84 | 27.745 | 2.730 |
| 3500 | 1.261 | 34.685 | 3.28 | 27.774 | 2.958 |
| 4000 | 1.102 | 34.693 | 3.69 | 27.792 | 3.176 |
| 4497 | 1.032 | 34.696 | 3.84 | 27.799 | 3.393 |

CAST EP1-88-OC -030 DATE 27 MAY 88 TIME 2147 GMT
LAT 05 59.8N LONG 139 59.2W



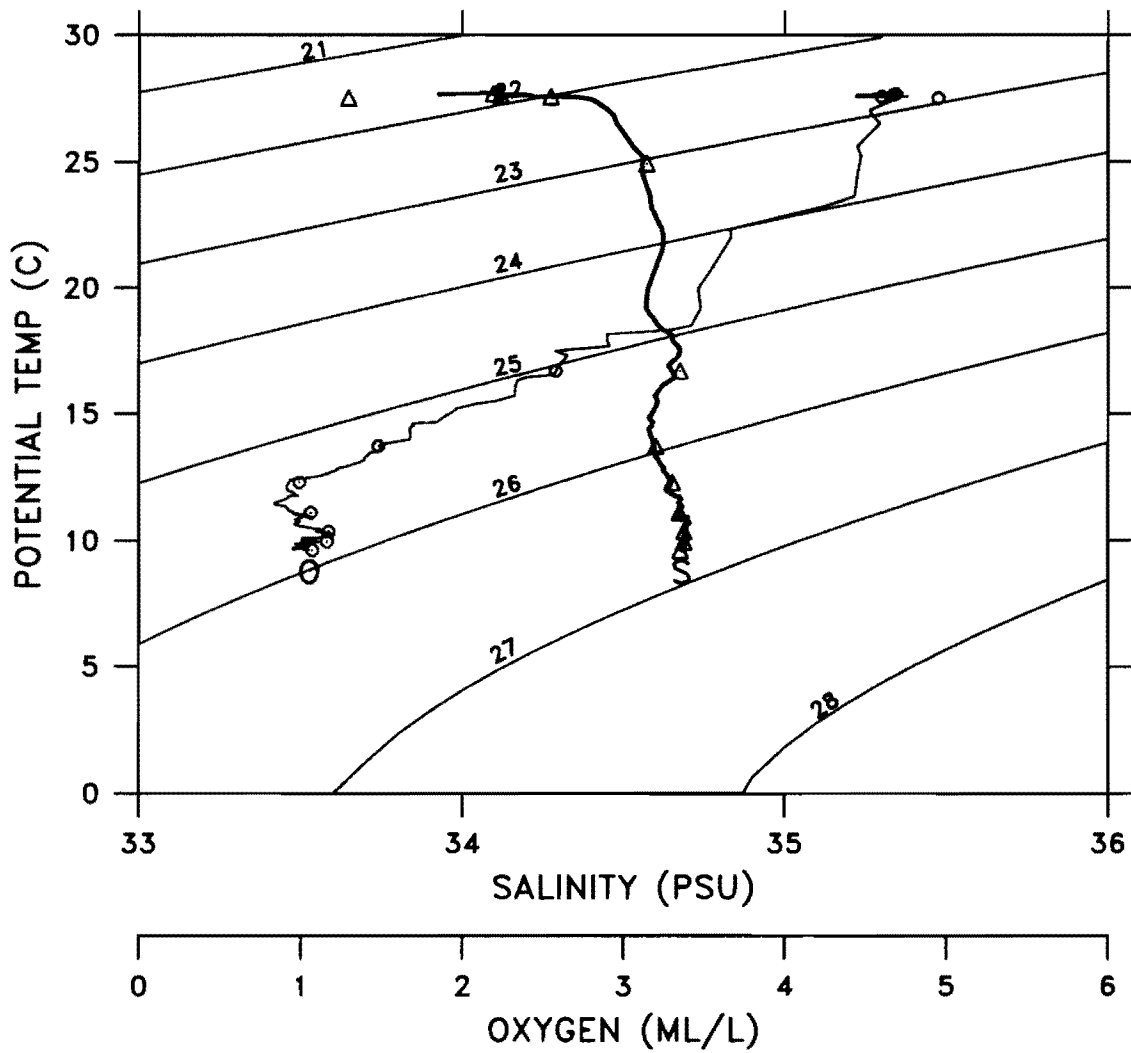
CAST EP1-88-OC -030 DATE 27 MAY 88 TIME 2147 GMT
 LAT 05 59.8N LONG 139 59.2W WEATHER 2 SEA STATE 2
 BAROMETER 12 WIND DIR 180 T SPD 04 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 27.8 WET 24.1 DEPTH 4813 M



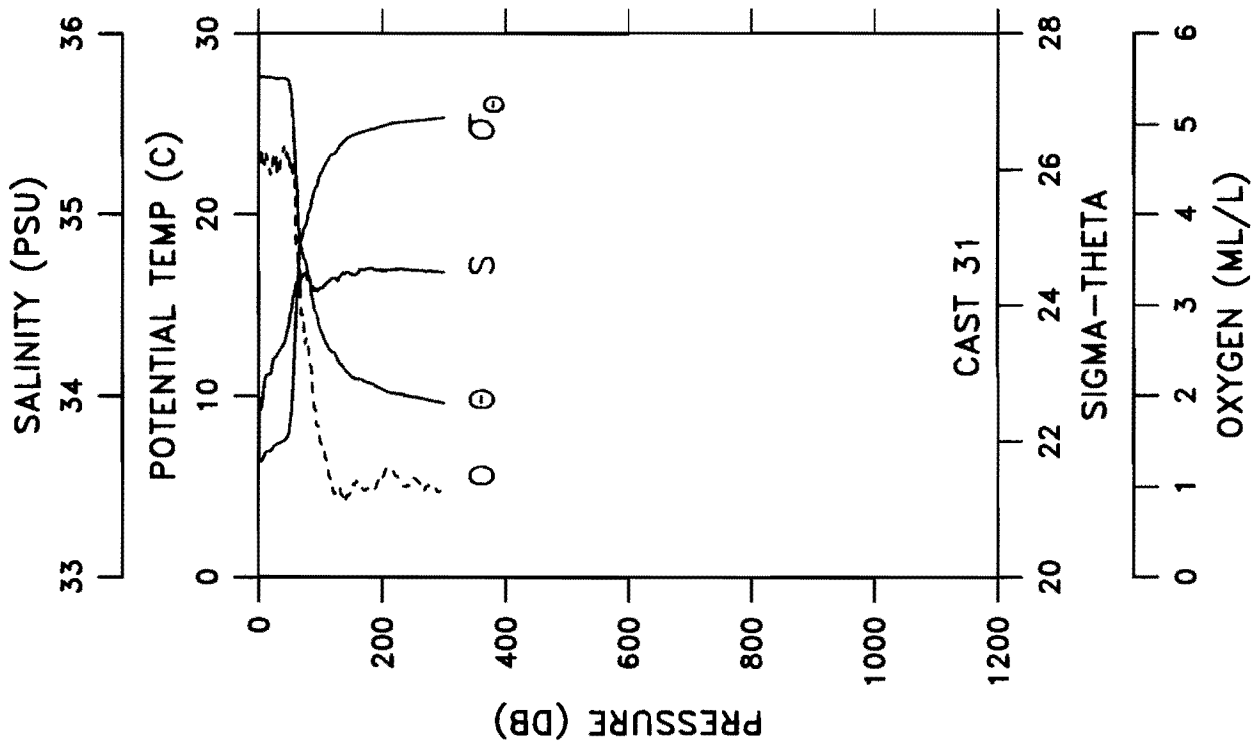
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 28.056 | 34.394 | 4.04 | 21.922 | 0.000 |
| 10 | 27.831 | 34.452 | 4.75 | 22.040 | 0.058 |
| 20 | 27.766 | 34.468 | 4.60 | 22.073 | 0.116 |
| 30 | 27.773 | 34.491 | 4.51 | 22.087 | 0.173 |
| 40 | 27.463 | 34.604 | 4.63 | 22.273 | 0.230 |
| 50 | 26.936 | 34.748 | 4.54 | 22.550 | 0.284 |
| 60 | 26.764 | 34.800 | 4.56 | 22.644 | 0.337 |
| 70 | 26.601 | 34.815 | 4.52 | 22.707 | 0.389 |
| 80 | 26.036 | 34.853 | 4.48 | 22.913 | 0.439 |
| 90 | 25.424 | 34.784 | 4.15 | 23.050 | 0.489 |
| 100 | 22.319 | 34.703 | 3.47 | 23.904 | 0.534 |
| 110 | 16.698 | 34.670 | 2.64 | 25.333 | 0.566 |
| 120 | 15.464 | 34.635 | 2.25 | 25.589 | 0.591 |
| 130 | 13.995 | 34.626 | 1.99 | 25.900 | 0.614 |
| 140 | 12.955 | 34.619 | 1.68 | 26.107 | 0.634 |
| 150 | 12.108 | 34.686 | 0.34 | 26.325 | 0.652 |
| 160 | 11.811 | 34.701 | 0.56 | 26.393 | 0.669 |
| 170 | 11.429 | 34.713 | 0.63 | 26.474 | 0.686 |
| 180 | 11.162 | 34.723 | 0.58 | 26.531 | 0.701 |
| 190 | 10.978 | 34.721 | 0.61 | 26.563 | 0.717 |
| 200 | 10.756 | 34.709 | 0.67 | 26.593 | 0.731 |
| 250 | 10.149 | 34.699 | 0.71 | 26.692 | 0.803 |
| 300 | 9.608 | 34.682 | 0.69 | 26.770 | 0.871 |
| 350 | 9.283 | 34.665 | 1.13 | 26.811 | 0.937 |
| 400 | 8.984 | 34.654 | 0.95 | 26.850 | 1.001 |
| 450 | 8.671 | 34.642 | 0.59 | 26.890 | 1.064 |
| 500 | 8.231 | 34.621 | 0.33 | 26.942 | 1.125 |
| 550 | 7.614 | 34.595 | 0.35 | 27.013 | 1.184 |
| 600 | 7.085 | 34.578 | 0.40 | 27.075 | 1.239 |
| 650 | 6.601 | 34.563 | 0.47 | 27.129 | 1.292 |
| 700 | 6.076 | 34.554 | 0.62 | 27.191 | 1.342 |
| 750 | 5.649 | 34.551 | 0.87 | 27.242 | 1.389 |
| 800 | 5.321 | 34.552 | 0.99 | 27.283 | 1.434 |
| 900 | 4.863 | 34.557 | 1.13 | 27.340 | 1.520 |
| 1000 | 4.482 | 34.563 | 1.26 | 27.387 | 1.601 |
| 1001 | 4.476 | 34.562 | 1.26 | 27.387 | 1.602 |

CAST EP1-88-OC -031 DATE 28 MAY 88 TIME 1201 GMT

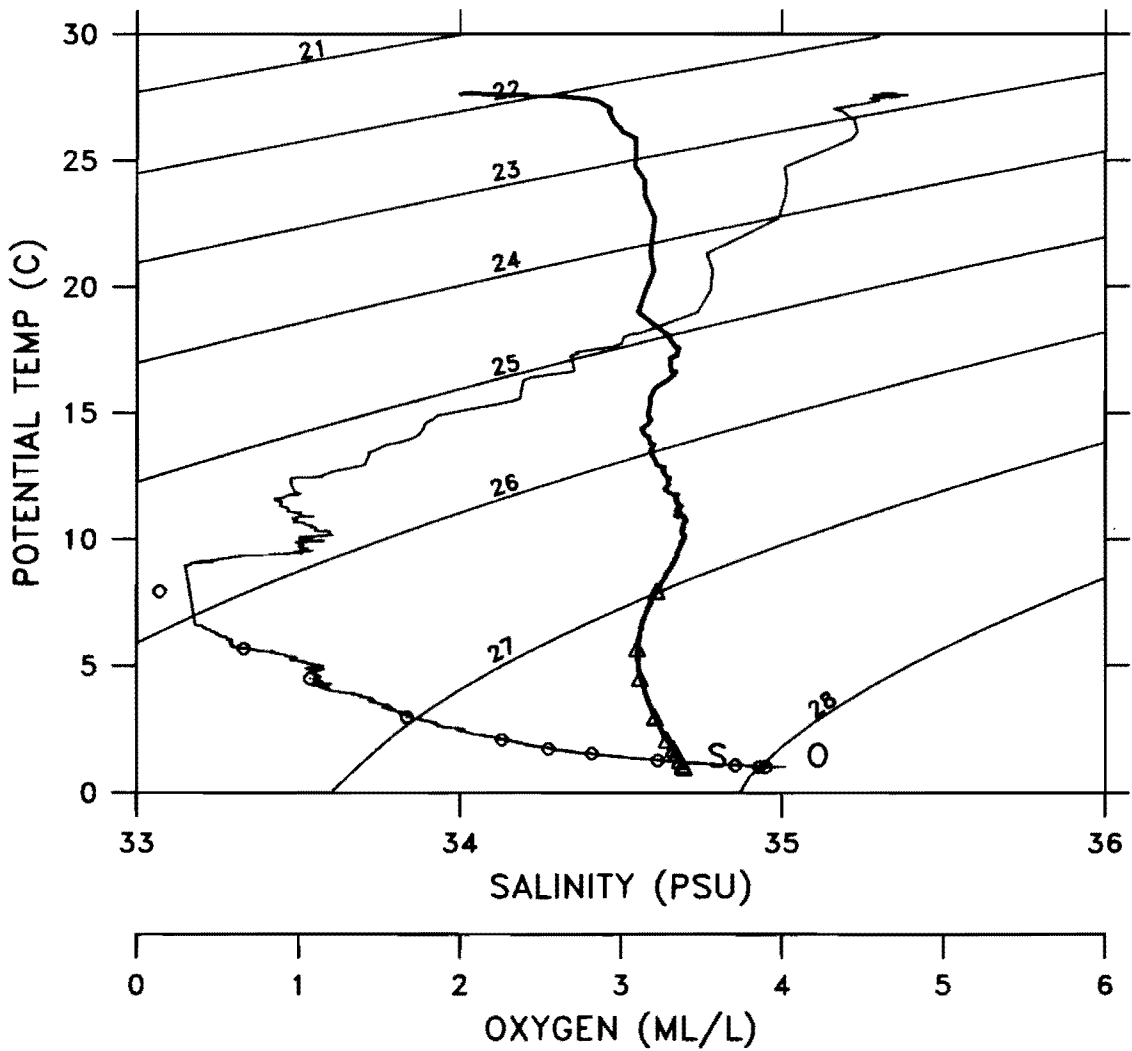
LAT 06 58.7N LONG 140 00.1W



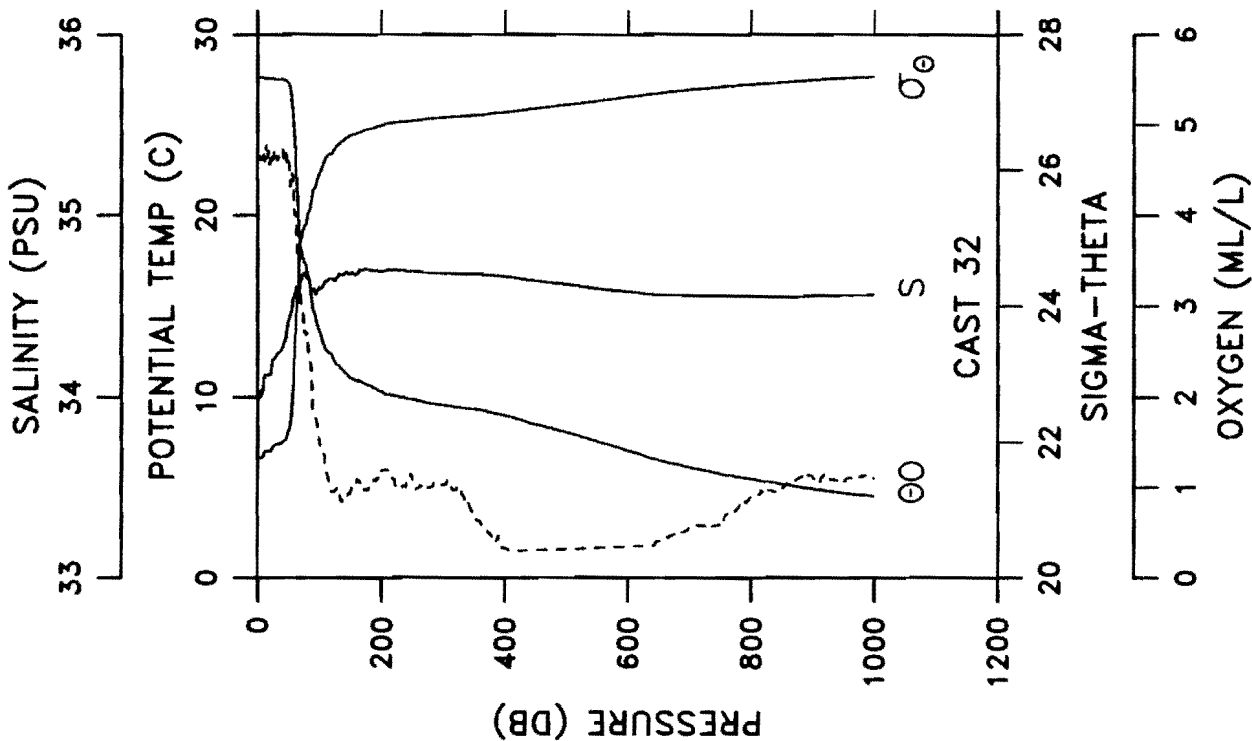
CAPT EP1-88-0C -031 DATE 28 MAY 88 TIME 1201 GMT
 LAT 06 58.7N LONG 140 00.1W WEATHER 2 SEA STATE 2
 BAROMETER 12 WIND DNR 010 T SPD 02 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 24.5 WET 24.0 DEPTH 4998 M



CAST EP1-88-OC -032 DATE 28 MAY 88 TIME 1508 GMT
LAT 06 58.7N LONG 140 00.9W

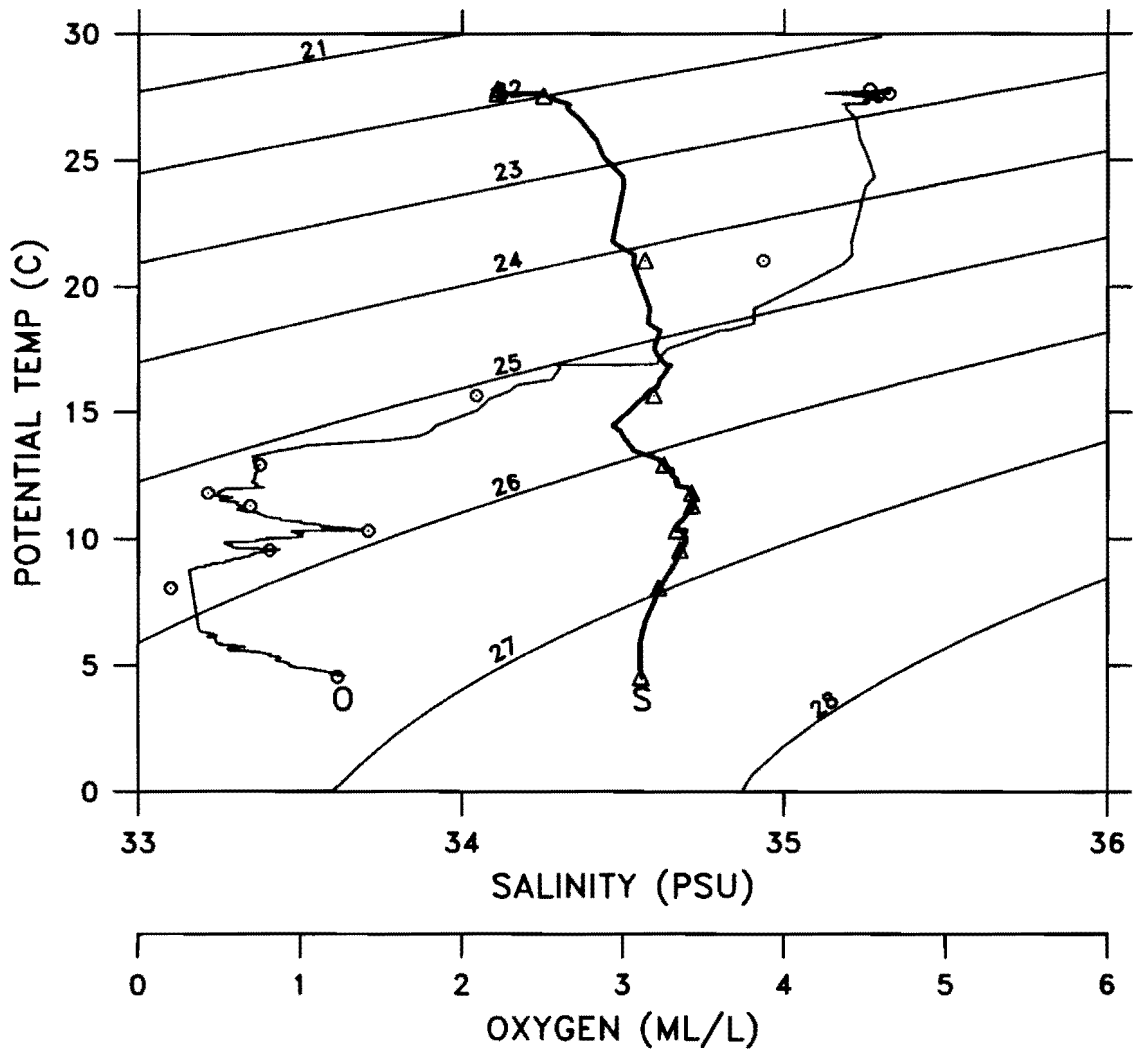


CAST EP1-88-0C -032 DATE 28 MAY 88 TIME 1508 GMT
 LAT 06 58.7N LONG 140 00.9W WEATHER 2 SEA STATE 2
 BAROMETER 12 WIND DIR 070 T SPD 01 KT VISIBILITY 7
 CLOUD 9 AMOUNT 6 DRY 25.1 WET 24.1 DEPTH 4991 M

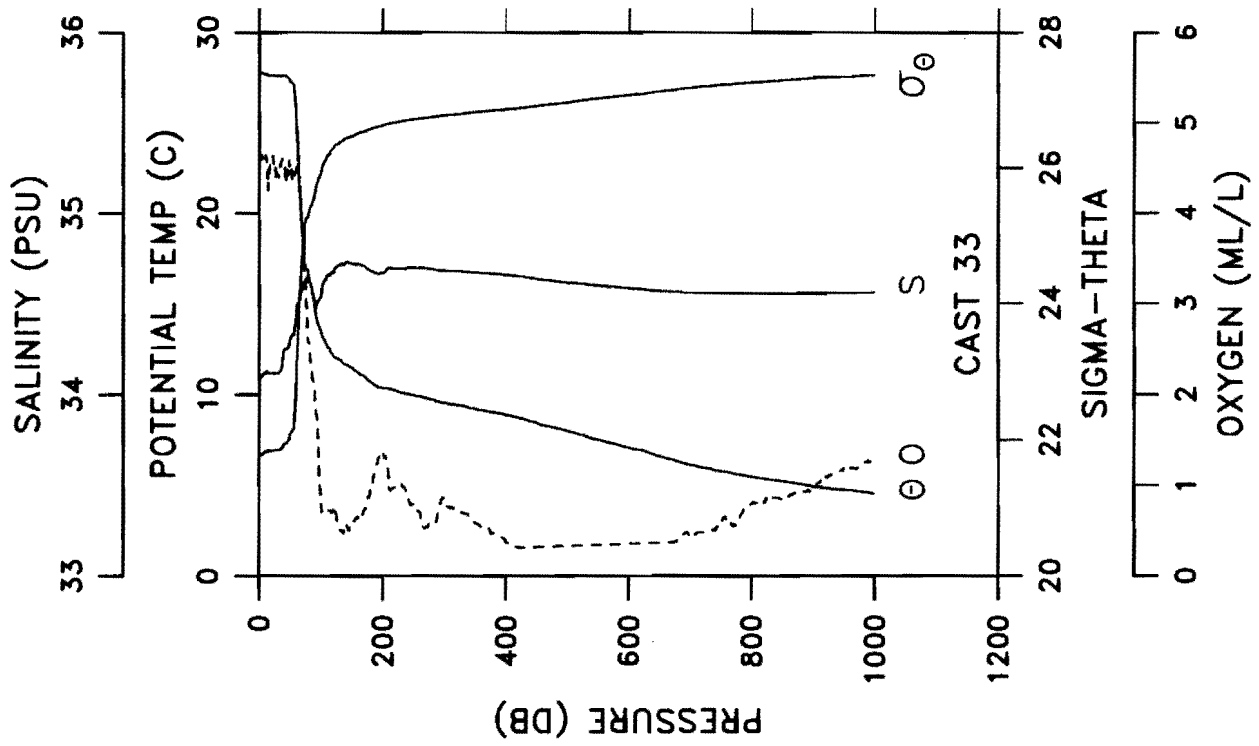


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.628 | 33.999 | 4.65 | 21.765 | 0.000 |
| 10 | 27.618 | 34.085 | 4.65 | 21.833 | 0.060 |
| 20 | 27.590 | 34.123 | 4.57 | 21.871 | 0.120 |
| 30 | 27.523 | 34.228 | 4.67 | 21.970 | 0.179 |
| 40 | 27.526 | 34.274 | 4.70 | 22.005 | 0.237 |
| 50 | 27.353 | 34.424 | 4.60 | 22.173 | 0.295 |
| 60 | 24.188 | 34.574 | 4.03 | 23.265 | 0.348 |
| 70 | 18.104 | 34.644 | 3.06 | 24.975 | 0.385 |
| 80 | 16.657 | 34.655 | 2.71 | 25.331 | 0.413 |
| 90 | 14.735 | 34.593 | 1.83 | 25.717 | 0.438 |
| 100 | 13.640 | 34.598 | 1.51 | 25.952 | 0.460 |
| 110 | 12.623 | 34.632 | 1.19 | 26.183 | 0.480 |
| 120 | 12.369 | 34.648 | 0.95 | 26.245 | 0.498 |
| 130 | 11.761 | 34.662 | 0.98 | 26.372 | 0.515 |
| 140 | 11.421 | 34.672 | 0.89 | 26.444 | 0.532 |
| 150 | 11.083 | 34.678 | 0.96 | 26.510 | 0.547 |
| 160 | 10.904 | 34.675 | 1.09 | 26.540 | 0.563 |
| 170 | 10.822 | 34.695 | 0.96 | 26.570 | 0.578 |
| 180 | 10.641 | 34.696 | 1.03 | 26.604 | 0.593 |
| 190 | 10.476 | 34.692 | 1.08 | 26.629 | 0.607 |
| 200 | 10.315 | 34.690 | 1.20 | 26.656 | 0.622 |
| 250 | 9.912 | 34.692 | 1.10 | 26.727 | 0.691 |
| 300 | 9.571 | 34.678 | 1.03 | 26.773 | 0.758 |
| 350 | 9.351 | 34.674 | 0.67 | 26.806 | 0.824 |
| 400 | 8.997 | 34.660 | 0.33 | 26.853 | 0.888 |
| 450 | 8.512 | 34.638 | 0.31 | 26.912 | 0.951 |
| 500 | 8.064 | 34.618 | 0.32 | 26.964 | 1.011 |
| 550 | 7.551 | 34.594 | 0.33 | 27.021 | 1.068 |
| 600 | 7.043 | 34.577 | 0.35 | 27.080 | 1.123 |
| 650 | 6.525 | 34.561 | 0.41 | 27.138 | 1.176 |
| 700 | 6.123 | 34.557 | 0.55 | 27.187 | 1.225 |
| 750 | 5.752 | 34.553 | 0.59 | 27.231 | 1.273 |
| 800 | 5.448 | 34.552 | 0.90 | 27.267 | 1.319 |
| 900 | 4.928 | 34.555 | 1.12 | 27.330 | 1.406 |
| 1000 | 4.508 | 34.561 | 1.10 | 27.383 | 1.488 |
| 1500 | 2.932 | 34.608 | 1.70 | 27.578 | 1.833 |
| 2000 | 2.064 | 34.644 | 2.30 | 27.681 | 2.110 |
| 2500 | 1.706 | 34.665 | 2.59 | 27.726 | 2.354 |
| 3000 | 1.521 | 34.674 | 2.82 | 27.747 | 2.590 |
| 3500 | 1.270 | 34.685 | 3.25 | 27.774 | 2.818 |
| 4000 | 1.074 | 34.694 | 3.75 | 27.794 | 3.035 |
| 4500 | 1.021 | 34.697 | 3.91 | 27.800 | 3.251 |
| 5000 | 1.005 | 34.697 | 4.00 | 27.802 | 3.475 |
| 5043 | 1.004 | 34.697 | 4.02 | 27.802 | 3.495 |

CAST EP1-88-OC -033 DATE 28 MAY 88 TIME 2149 GMT
LAT 08 00.0N LONG 140 00.3W

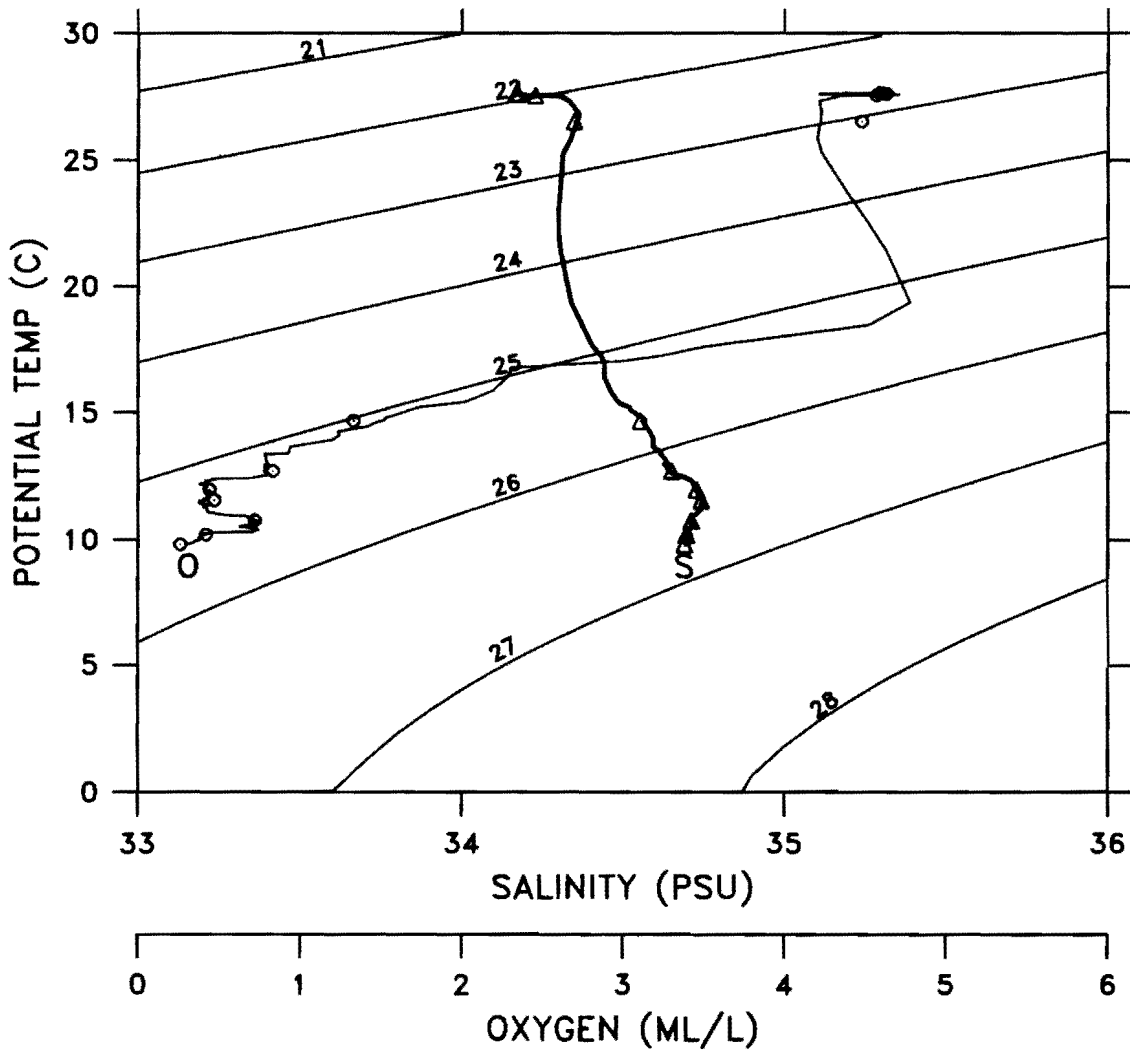


CAST EP1-88-OC -033 DATE 28 MAY 88 TIME 2149 GMT
 LAT 08 00.0N LONG 140 00.3W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 190 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 5 DRY 28.0 WET 25.3 DEPTH 5183 M

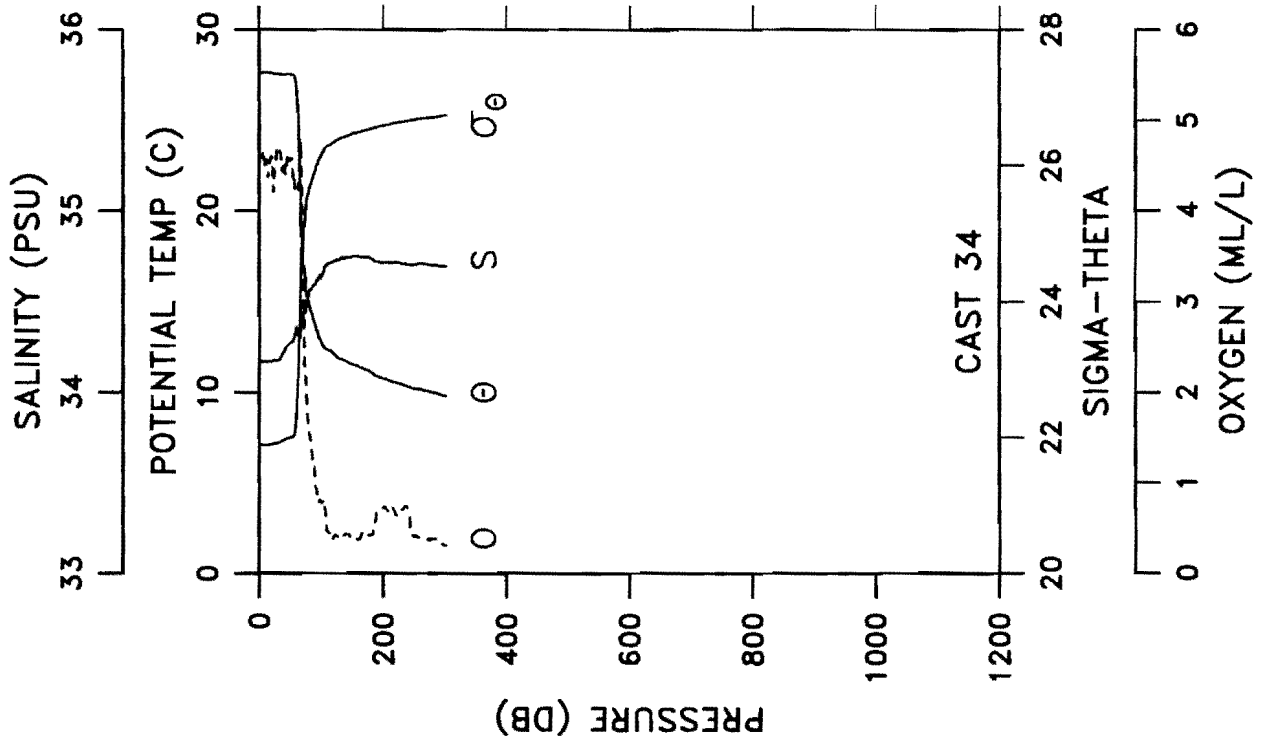


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D |
|-----------|--------------|-----------|------------|----------------|---------|
| 0 | 27.794 | 34.095 | 4.65 | 21.784 | 0.000 |
| 10 | 27.686 | 34.119 | 4.65 | 21.836 | 0.060 |
| 20 | 27.640 | 34.117 | 4.57 | 21.849 | 0.120 |
| 30 | 27.625 | 34.117 | 4.44 | 21.854 | 0.179 |
| 40 | 27.640 | 34.245 | 4.53 | 21.946 | 0.239 |
| 50 | 27.314 | 34.305 | 4.51 | 22.096 | 0.297 |
| 60 | 25.162 | 34.436 | 4.51 | 22.868 | 0.353 |
| 70 | 18.539 | 34.577 | 3.81 | 24.816 | 0.393 |
| 80 | 16.453 | 34.626 | 2.57 | 25.357 | 0.421 |
| 90 | 14.763 | 34.495 | 1.97 | 25.635 | 0.446 |
| 100 | 13.501 | 34.530 | 0.88 | 25.928 | 0.468 |
| 110 | 12.603 | 34.653 | 0.73 | 26.203 | 0.487 |
| 120 | 12.096 | 34.667 | 0.73 | 26.313 | 0.505 |
| 130 | 11.920 | 34.711 | 0.52 | 26.380 | 0.522 |
| 140 | 11.654 | 34.726 | 0.58 | 26.442 | 0.539 |
| 150 | 11.458 | 34.717 | 0.61 | 26.472 | 0.555 |
| 160 | 11.231 | 34.720 | 0.66 | 26.516 | 0.570 |
| 170 | 11.036 | 34.706 | 0.74 | 26.540 | 0.586 |
| 180 | 10.695 | 34.679 | 1.00 | 26.581 | 0.601 |
| 190 | 10.443 | 34.663 | 1.24 | 26.613 | 0.616 |
| 200 | 10.349 | 34.666 | 1.36 | 26.632 | 0.630 |
| 250 | 9.975 | 34.697 | 0.76 | 26.720 | 0.700 |
| 300 | 9.565 | 34.680 | 0.84 | 26.776 | 0.768 |
| 350 | 9.218 | 34.669 | 0.59 | 26.824 | 0.833 |
| 400 | 8.888 | 34.656 | 0.38 | 26.867 | 0.897 |
| 450 | 8.459 | 34.633 | 0.32 | 26.916 | 0.959 |
| 500 | 8.022 | 34.612 | 0.33 | 26.966 | 1.018 |
| 550 | 7.533 | 34.598 | 0.34 | 27.027 | 1.076 |
| 600 | 7.092 | 34.582 | 0.36 | 27.077 | 1.130 |
| 650 | 6.621 | 34.569 | 0.37 | 27.131 | 1.183 |
| 700 | 6.135 | 34.559 | 0.42 | 27.187 | 1.233 |
| 750 | 5.770 | 34.554 | 0.60 | 27.229 | 1.281 |
| 800 | 5.465 | 34.554 | 0.80 | 27.267 | 1.327 |
| 800 | 4.926 | 34.553 | 0.96 | 27.330 | 1.414 |
| 1000 | 4.540 | 34.560 | 1.27 | 27.378 | 1.497 |
| 1002 | 4.535 | 34.560 | 1.26 | 27.379 | 1.498 |

CAST EP1-88-OC -034 DATE 30 MAY 88 TIME 0853 GMT
LAT 08 59.0N LONG 140 10.0W

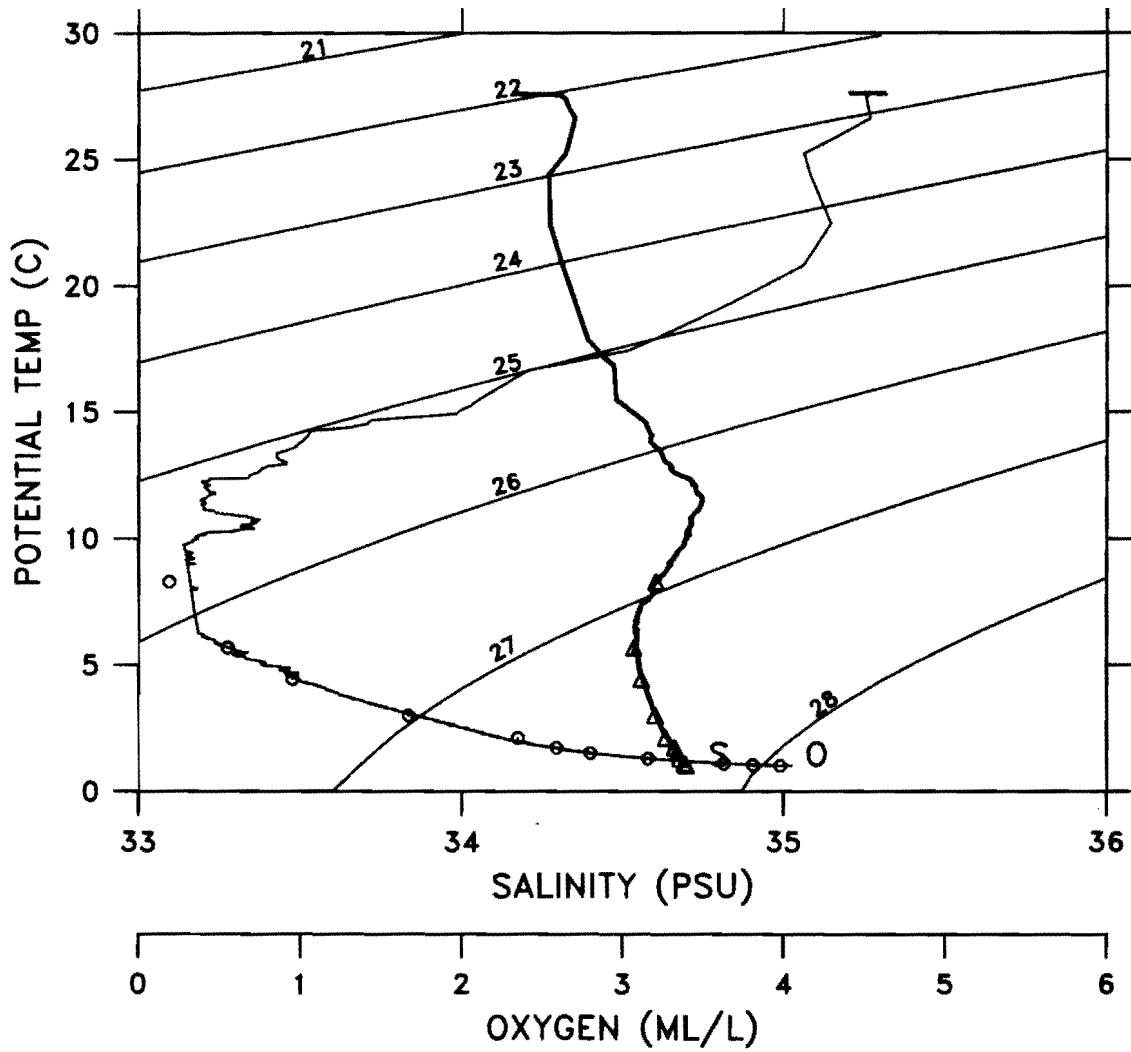


CAST EP1-88-OC -034 DATE 30 MAY 88 TIME 0853 GMT
 LAT 08 59.0N LONG 140 10.0W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 030 T SPD 18 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 27.0 WET 25.0 DEPTH 5109 M

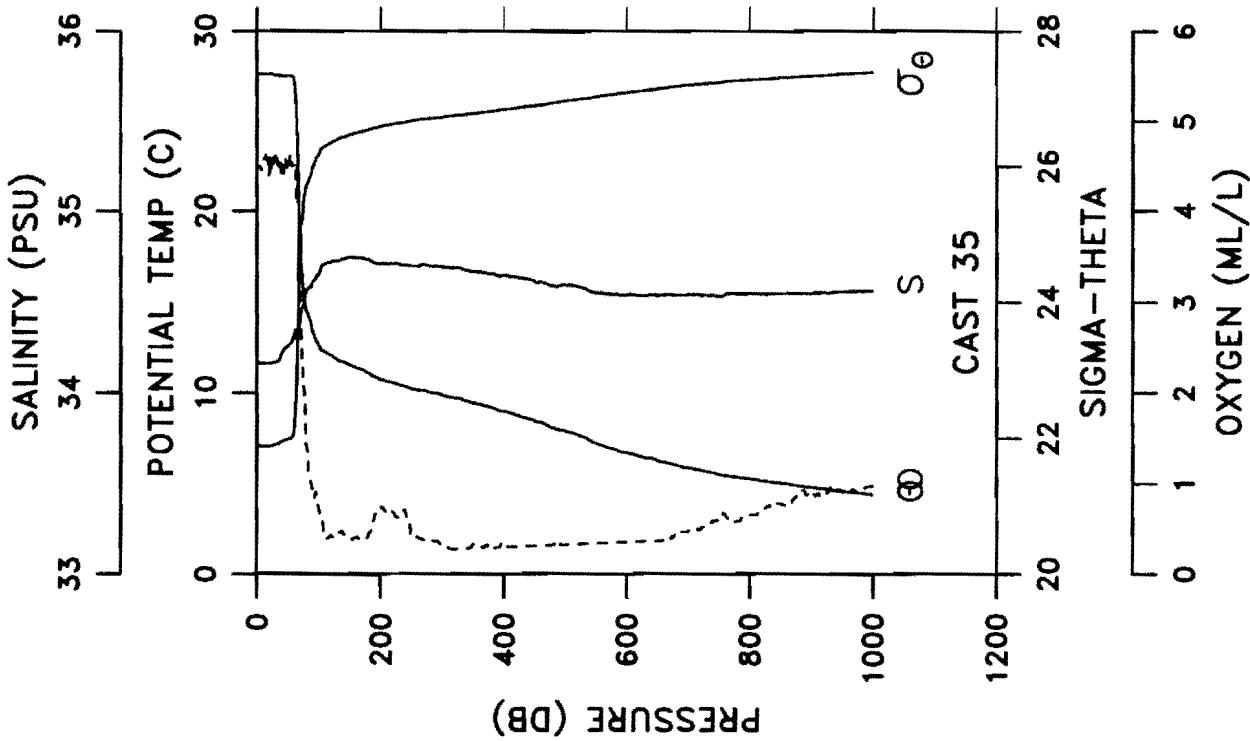


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.632 | 34.170 | 4.59 | 21.893 | 0.000 |
| 10 | 27.636 | 34.172 | 4.46 | 21.892 | 0.059 |
| 20 | 27.622 | 34.173 | 4.60 | 21.897 | 0.118 |
| 30 | 27.571 | 34.178 | 4.71 | 21.918 | 0.177 |
| 40 | 27.545 | 34.225 | 4.55 | 21.962 | 0.236 |
| 50 | 27.544 | 34.275 | 4.58 | 21.999 | 0.295 |
| 60 | 26.799 | 34.364 | 4.23 | 22.305 | 0.353 |
| 70 | 17.626 | 34.405 | 3.51 | 24.909 | 0.396 |
| 80 | 14.928 | 34.544 | 1.60 | 25.637 | 0.423 |
| 90 | 13.789 | 34.593 | 1.07 | 25.917 | 0.445 |
| 100 | 12.815 | 34.641 | 0.78 | 26.153 | 0.465 |
| 110 | 12.369 | 34.706 | 0.46 | 26.290 | 0.483 |
| 120 | 12.146 | 34.720 | 0.41 | 26.344 | 0.500 |
| 130 | 11.884 | 34.730 | 0.45 | 26.402 | 0.517 |
| 140 | 11.756 | 34.742 | 0.43 | 26.435 | 0.533 |
| 150 | 11.567 | 34.747 | 0.42 | 26.475 | 0.549 |
| 160 | 11.441 | 34.749 | 0.37 | 26.499 | 0.565 |
| 170 | 11.307 | 34.743 | 0.40 | 26.520 | 0.580 |
| 180 | 11.153 | 34.739 | 0.42 | 26.545 | 0.596 |
| 190 | 10.921 | 34.719 | 0.67 | 26.571 | 0.611 |
| 200 | 10.764 | 34.714 | 0.72 | 26.595 | 0.626 |
| 250 | 10.220 | 34.701 | 0.41 | 26.681 | 0.698 |
| 300 | 9.825 | 34.694 | 0.31 | 26.743 | 0.767 |
| 302 | 9.814 | 34.695 | 0.31 | 26.746 | 0.770 |

CAST EP1-88-OC -035 DATE 30 MAY 88 TIME 1203 GMT
LAT 08 59.9N LONG 140 08.7W

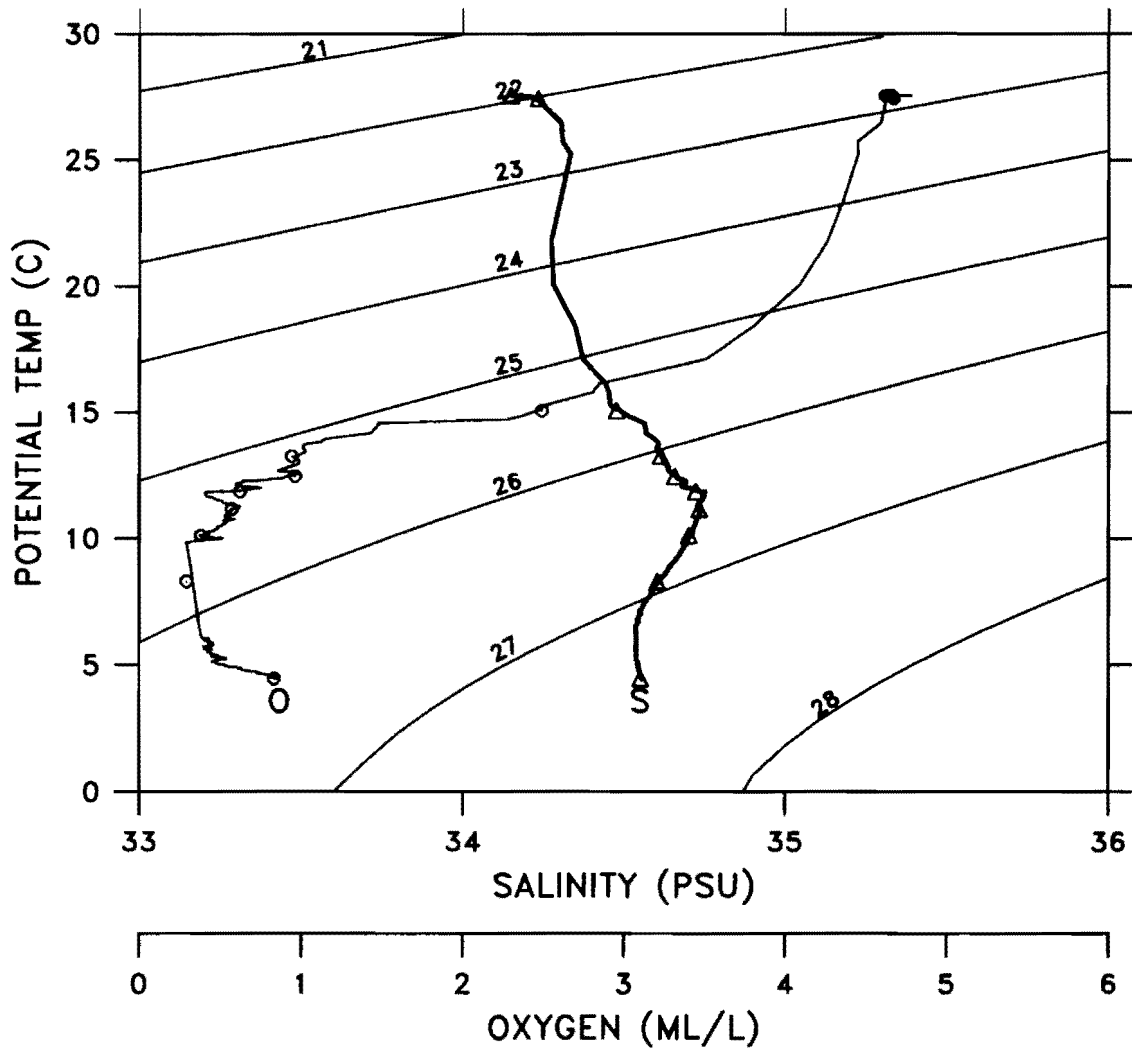


CAST EP1-88-0C -035 DATE 30 MAY 88 TIME 1203 GMT
 LAT 08 59.9N LONG 140 08.7W WEATHER 5 SEA STATE 4
 BAROMETER 11 WIND DIR 020 T SPD 20 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 27.0 WET 25.1 DEPTH 5140 M

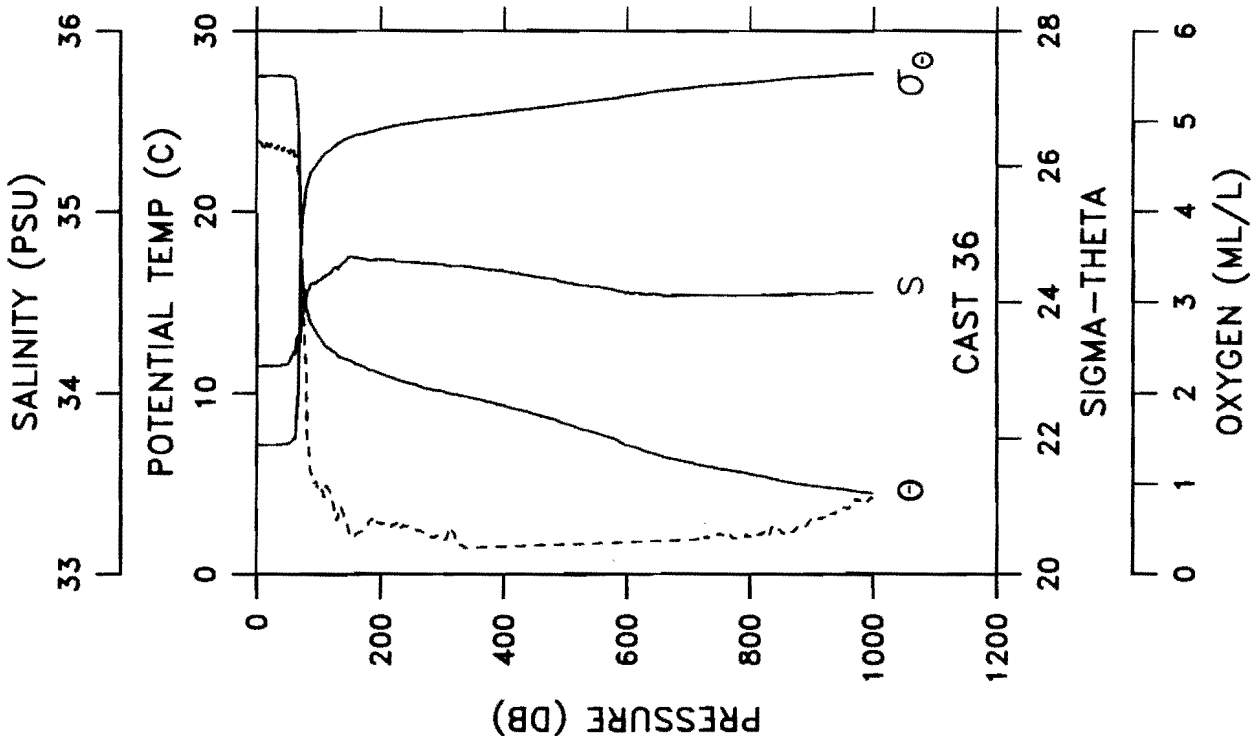


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 27.643 | 34.168 | 4.50 | 21.887 | 0.000 |
| 10 | 27.644 | 34.167 | 4.55 | 21.886 | 0.059 |
| 20 | 27.642 | 34.167 | 4.42 | 21.886 | 0.118 |
| 30 | 27.580 | 34.171 | 4.63 | 21.910 | 0.178 |
| 40 | 27.546 | 34.220 | 4.46 | 21.958 | 0.237 |
| 50 | 27.544 | 34.262 | 4.49 | 21.990 | 0.295 |
| 60 | 27.353 | 34.322 | 4.51 | 22.097 | 0.353 |
| 70 | 17.435 | 34.423 | 3.03 | 24.969 | 0.399 |
| 80 | 14.585 | 34.570 | 1.42 | 25.731 | 0.425 |
| 90 | 13.466 | 34.612 | 0.90 | 25.999 | 0.447 |
| 100 | 12.635 | 34.655 | 0.74 | 26.199 | 0.466 |
| 110 | 12.290 | 34.713 | 0.43 | 26.311 | 0.484 |
| 120 | 12.108 | 34.724 | 0.44 | 26.355 | 0.501 |
| 130 | 11.847 | 34.729 | 0.43 | 26.408 | 0.518 |
| 140 | 11.737 | 34.738 | 0.44 | 26.436 | 0.534 |
| 150 | 11.566 | 34.748 | 0.40 | 26.476 | 0.550 |
| 160 | 11.429 | 34.744 | 0.40 | 26.498 | 0.566 |
| 170 | 11.294 | 34.742 | 0.40 | 26.522 | 0.581 |
| 180 | 11.114 | 34.736 | 0.42 | 26.549 | 0.597 |
| 190 | 10.898 | 34.717 | 0.62 | 26.574 | 0.612 |
| 200 | 10.748 | 34.710 | 0.73 | 26.596 | 0.627 |
| 250 | 10.244 | 34.699 | 0.43 | 26.675 | 0.699 |
| 300 | 9.882 | 34.694 | 0.33 | 26.733 | 0.768 |
| 350 | 9.439 | 34.668 | 0.33 | 26.787 | 0.836 |
| 400 | 9.002 | 34.650 | 0.31 | 26.844 | 0.901 |
| 450 | 8.453 | 34.613 | 0.31 | 26.901 | 0.964 |
| 500 | 7.909 | 34.595 | 0.33 | 26.970 | 1.024 |
| 550 | 7.225 | 34.554 | 0.34 | 27.036 | 1.081 |
| 600 | 6.700 | 34.542 | 0.36 | 27.099 | 1.135 |
| 650 | 6.284 | 34.540 | 0.37 | 27.153 | 1.186 |
| 700 | 5.885 | 34.546 | 0.49 | 27.208 | 1.235 |
| 750 | 5.536 | 34.536 | 0.63 | 27.244 | 1.281 |
| 800 | 5.296 | 34.549 | 0.66 | 27.283 | 1.326 |
| 900 | 4.819 | 34.553 | 0.92 | 27.342 | 1.412 |
| 1000 | 4.412 | 34.563 | 0.98 | 27.395 | 1.492 |
| 1500 | 3.011 | 34.603 | 1.70 | 27.567 | 1.837 |
| 2000 | 2.099 | 34.639 | 2.23 | 27.675 | 2.121 |
| 2500 | 1.709 | 34.663 | 2.59 | 27.724 | 2.367 |
| 3000 | 1.503 | 34.674 | 2.79 | 27.748 | 2.602 |
| 3500 | 1.288 | 34.683 | 3.16 | 27.771 | 2.829 |
| 4000 | 1.090 | 34.692 | 3.66 | 27.792 | 3.049 |
| 4500 | 1.031 | 34.697 | 3.88 | 27.800 | 3.266 |
| 5000 | 1.007 | 34.698 | 4.00 | 27.803 | 3.490 |
| 5141 | 1.006 | 34.698 | 4.00 | 27.802 | 3.554 |

CAST EP1-88-OC -036 DATE 31 MAY 88 TIME 0618 GMT
LAT 10 00.1N LONG 140 00.0W

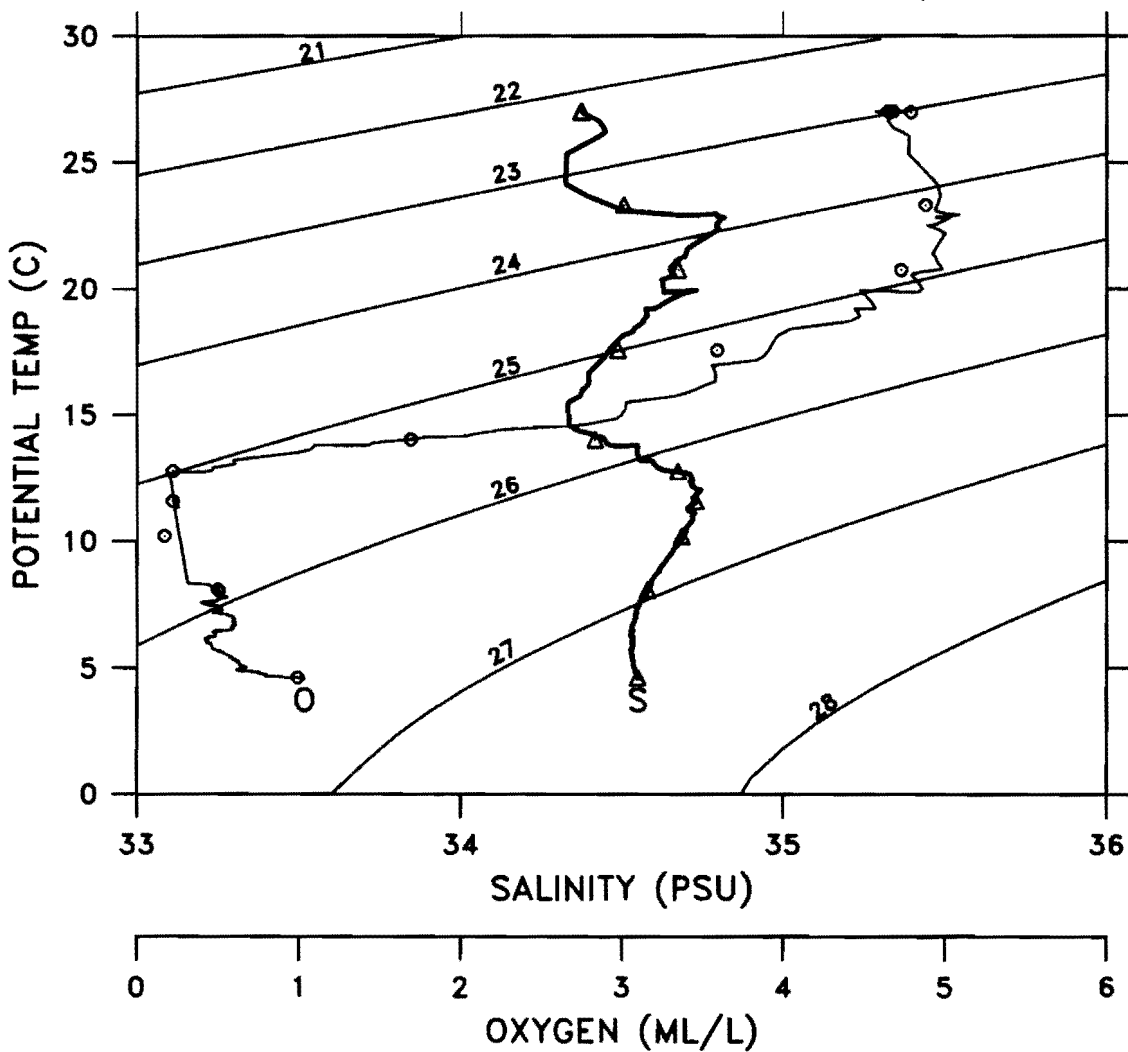


CAST EP1-88-OC -036 DATE 31 MAY 88 TIME 0618 GMT
 LAT 10 00.1N LONG 140 00.0W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 035 T SPD 17 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 26.6 WET 25.2 DEPTH 4905 M

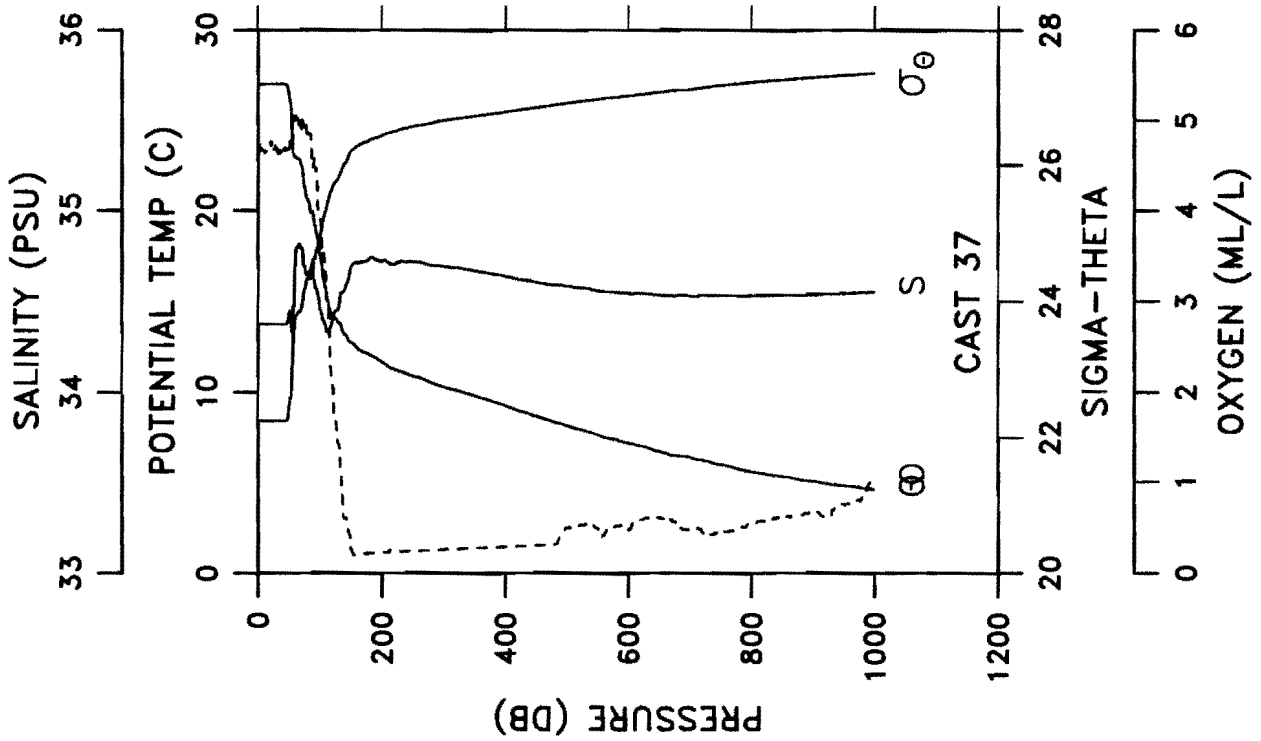


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.528 | 34.149 | 4.77 | 21.910 | 0.000 |
| 10 | 27.527 | 34.150 | 4.73 | 21.911 | 0.059 |
| 20 | 27.528 | 34.151 | 4.74 | 21.911 | 0.118 |
| 30 | 27.528 | 34.151 | 4.71 | 21.912 | 0.177 |
| 40 | 27.521 | 34.155 | 4.72 | 21.917 | 0.236 |
| 50 | 27.511 | 34.160 | 4.68 | 21.924 | 0.295 |
| 60 | 27.424 | 34.221 | 4.65 | 21.998 | 0.354 |
| 70 | 20.069 | 34.280 | 4.09 | 24.196 | 0.406 |
| 80 | 14.736 | 34.536 | 2.28 | 25.673 | 0.434 |
| 90 | 13.731 | 34.608 | 1.02 | 25.941 | 0.455 |
| 100 | 13.149 | 34.619 | 0.97 | 26.069 | 0.476 |
| 110 | 12.621 | 34.645 | 0.97 | 26.194 | 0.495 |
| 120 | 12.405 | 34.663 | 0.89 | 26.250 | 0.513 |
| 130 | 12.081 | 34.682 | 0.61 | 26.327 | 0.530 |
| 140 | 11.916 | 34.715 | 0.68 | 26.384 | 0.547 |
| 150 | 11.821 | 34.749 | 0.41 | 26.429 | 0.564 |
| 160 | 11.625 | 34.748 | 0.44 | 26.465 | 0.580 |
| 170 | 11.506 | 34.741 | 0.48 | 26.481 | 0.596 |
| 180 | 11.346 | 34.733 | 0.55 | 26.505 | 0.611 |
| 190 | 11.219 | 34.731 | 0.62 | 26.527 | 0.627 |
| 200 | 11.100 | 34.736 | 0.56 | 26.552 | 0.642 |
| 250 | 10.542 | 34.722 | 0.52 | 26.641 | 0.716 |
| 300 | 10.128 | 34.709 | 0.38 | 26.703 | 0.787 |
| 350 | 9.739 | 34.692 | 0.29 | 26.756 | 0.856 |
| 400 | 9.325 | 34.670 | 0.30 | 26.808 | 0.923 |
| 450 | 8.859 | 34.641 | 0.32 | 26.860 | 0.988 |
| 500 | 8.331 | 34.609 | 0.33 | 26.917 | 1.050 |
| 550 | 7.811 | 34.585 | 0.34 | 26.977 | 1.110 |
| 600 | 7.131 | 34.552 | 0.35 | 27.048 | 1.167 |
| 650 | 6.610 | 34.541 | 0.37 | 27.110 | 1.221 |
| 700 | 6.206 | 34.539 | 0.38 | 27.162 | 1.272 |
| 750 | 5.847 | 34.540 | 0.45 | 27.208 | 1.321 |
| 800 | 5.543 | 34.538 | 0.42 | 27.245 | 1.368 |
| 900 | 4.894 | 34.545 | 0.61 | 27.327 | 1.456 |
| 1000 | 4.467 | 34.553 | 0.84 | 27.381 | 1.538 |
| 1008 | 4.429 | 34.555 | 0.86 | 27.386 | 1.545 |

CAST EP1-88-OC -037 DATE 31 MAY 88 TIME 1129 GMT
LAT 11 00.2N LONG 140 00.3W

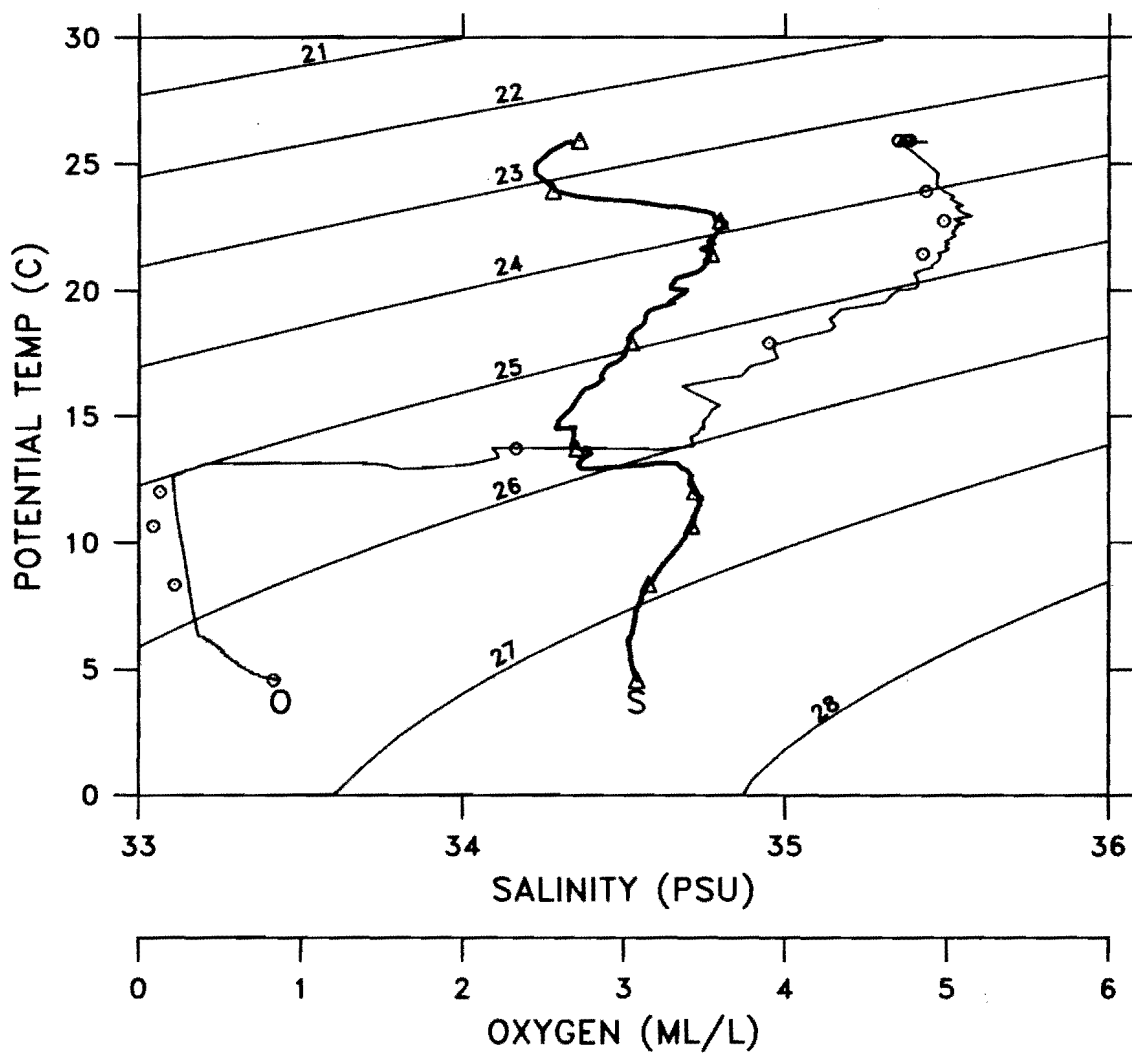


CAST EP1-88-OC -037 DATE 31 MAY 88 TIME 1129 GMT
 LAT 11 00.2N LONG 140 00.3W WEATHER 2 SEA STATE 3
 BAROMETER 11 WIND DIR 035 T SPD 16 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 25.4 WET 23.8 DEPTH 4813 M

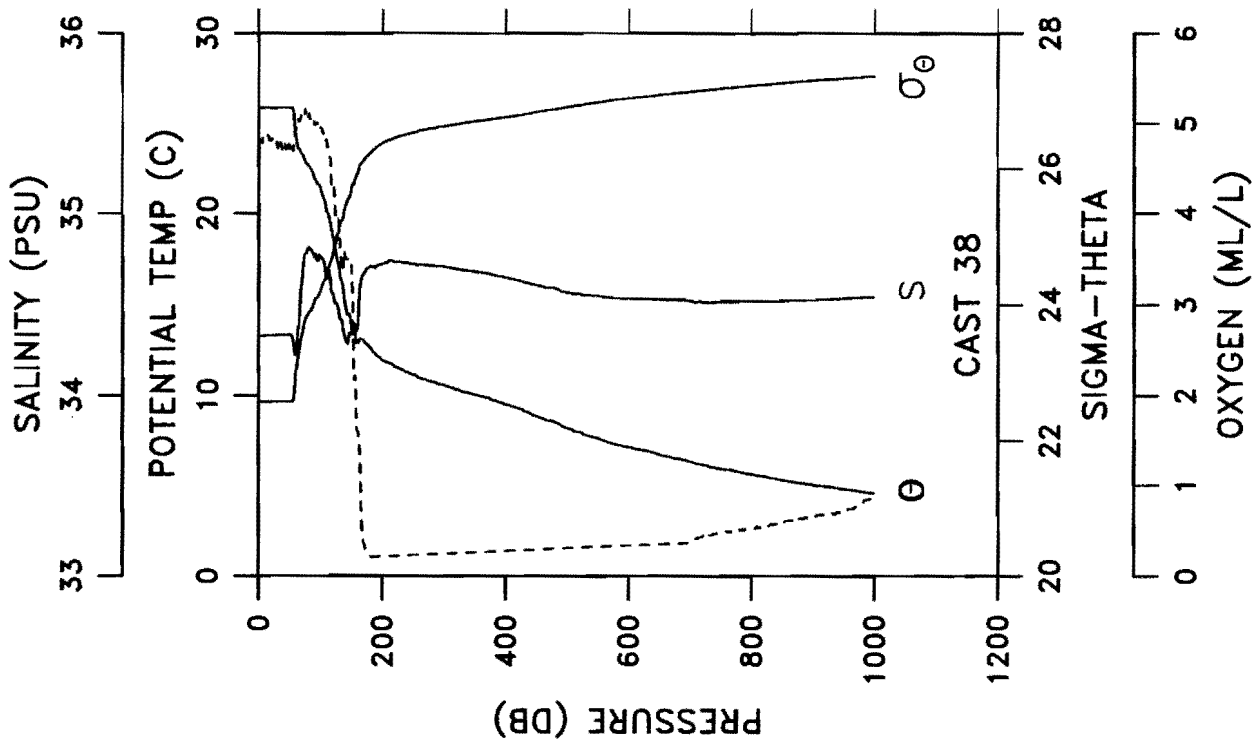


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.002 | 34.376 | 4.74 | 22.249 | 0.000 |
| 10 | 27.006 | 34.375 | 4.65 | 22.247 | 0.056 |
| 20 | 27.006 | 34.375 | 4.76 | 22.247 | 0.112 |
| 30 | 27.010 | 34.375 | 4.66 | 22.246 | 0.167 |
| 40 | 27.009 | 34.375 | 4.72 | 22.246 | 0.223 |
| 50 | 26.372 | 34.443 | 4.68 | 22.499 | 0.279 |
| 60 | 22.921 | 34.736 | 5.03 | 23.758 | 0.327 |
| 70 | 22.506 | 34.792 | 4.89 | 23.919 | 0.368 |
| 80 | 20.596 | 34.656 | 4.80 | 24.343 | 0.406 |
| 90 | 19.510 | 34.640 | 4.54 | 24.616 | 0.440 |
| 100 | 17.563 | 34.458 | 3.91 | 24.965 | 0.472 |
| 110 | 15.506 | 34.335 | 3.03 | 25.348 | 0.500 |
| 120 | 14.252 | 34.404 | 2.09 | 25.674 | 0.525 |
| 130 | 13.786 | 34.473 | 1.43 | 25.825 | 0.548 |
| 140 | 13.196 | 34.569 | 0.59 | 26.020 | 0.569 |
| 150 | 12.734 | 34.691 | 0.26 | 26.207 | 0.588 |
| 160 | 12.442 | 34.717 | 0.21 | 26.285 | 0.606 |
| 170 | 12.188 | 34.720 | 0.21 | 26.336 | 0.624 |
| 180 | 12.055 | 34.742 | 0.22 | 26.378 | 0.641 |
| 190 | 11.913 | 34.737 | 0.22 | 26.402 | 0.657 |
| 200 | 11.671 | 34.725 | 0.23 | 26.438 | 0.674 |
| 250 | 10.892 | 34.721 | 0.24 | 26.579 | 0.752 |
| 300 | 10.294 | 34.695 | 0.26 | 26.664 | 0.826 |
| 350 | 9.824 | 34.670 | 0.27 | 26.725 | 0.896 |
| 400 | 9.260 | 34.639 | 0.29 | 26.794 | 0.964 |
| 450 | 8.685 | 34.607 | 0.30 | 26.861 | 1.029 |
| 500 | 8.137 | 34.583 | 0.49 | 26.926 | 1.092 |
| 550 | 7.657 | 34.559 | 0.49 | 26.978 | 1.151 |
| 600 | 7.189 | 34.544 | 0.48 | 27.033 | 1.208 |
| 650 | 6.732 | 34.536 | 0.61 | 27.090 | 1.263 |
| 700 | 6.403 | 34.530 | 0.48 | 27.129 | 1.315 |
| 750 | 5.971 | 34.535 | 0.46 | 27.189 | 1.365 |
| 800 | 5.563 | 34.530 | 0.55 | 27.236 | 1.413 |
| 900 | 5.034 | 34.538 | 0.66 | 27.305 | 1.503 |
| 1000 | 4.573 | 34.552 | 1.03 | 27.368 | 1.587 |
| 1001 | 4.573 | 34.550 | 1.03 | 27.367 | 1.588 |

CAST EP1-88-OC -038 DATE 21 MAY 88 TIME 1646 GMT
LAT 12 00.2N LONG 140 00.5W



CAST EP1-88-OC -038 DATE 21 MAY 88 TIME 1646 GMT
 LAT 12 00.2N LONG 140 00.5W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 050 T SPD 19 KT VISIBILITY 8
 CLOUD 6 AMOUNT 5 DRY 25.0 WET 23.6 DEPTH 4955 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.853 | 34.330 | 4.80 | 22.575 | 0.000 |
| 10 | 25.856 | 34.331 | 4.88 | 22.576 | 0.053 |
| 20 | 25.853 | 34.334 | 4.81 | 22.578 | 0.105 |
| 30 | 25.854 | 34.335 | 4.80 | 22.579 | 0.158 |
| 40 | 25.863 | 34.336 | 4.75 | 22.577 | 0.211 |
| 50 | 25.864 | 34.338 | 4.72 | 22.578 | 0.264 |
| 60 | 24.199 | 34.268 | 4.93 | 23.030 | 0.316 |
| 70 | 23.319 | 34.636 | 5.07 | 23.567 | 0.361 |
| 80 | 22.682 | 34.816 | 5.08 | 23.887 | 0.403 |
| 90 | 21.948 | 34.761 | 4.99 | 24.052 | 0.443 |
| 100 | 21.387 | 34.765 | 4.96 | 24.210 | 0.481 |
| 110 | 20.085 | 34.644 | 4.81 | 24.469 | 0.517 |
| 120 | 18.753 | 34.565 | 4.29 | 24.753 | 0.551 |
| 130 | 17.017 | 34.449 | 3.78 | 25.088 | 0.582 |
| 140 | 15.008 | 34.314 | 3.53 | 25.442 | 0.609 |
| 150 | 13.808 | 34.338 | 3.43 | 25.716 | 0.634 |
| 160 | 12.911 | 34.379 | 1.61 | 25.930 | 0.656 |
| 170 | 13.053 | 34.671 | 0.38 | 26.128 | 0.675 |
| 180 | 12.655 | 34.711 | 0.22 | 26.238 | 0.694 |
| 190 | 12.244 | 34.715 | 0.21 | 26.321 | 0.712 |
| 200 | 11.944 | 34.724 | 0.22 | 26.386 | 0.729 |
| 250 | 11.167 | 34.724 | 0.23 | 26.531 | 0.810 |
| 300 | 10.584 | 34.710 | 0.25 | 26.624 | 0.885 |
| 350 | 10.056 | 34.682 | 0.26 | 26.695 | 0.957 |
| 400 | 9.522 | 34.649 | 0.28 | 26.759 | 1.027 |
| 450 | 8.870 | 34.609 | 0.29 | 26.833 | 1.094 |
| 500 | 8.197 | 34.568 | 0.31 | 26.905 | 1.157 |
| 550 | 7.627 | 34.549 | 0.32 | 26.975 | 1.217 |
| 600 | 7.137 | 34.538 | 0.34 | 27.036 | 1.274 |
| 650 | 6.723 | 34.530 | 0.35 | 27.087 | 1.329 |
| 700 | 6.322 | 34.522 | 0.37 | 27.134 | 1.382 |
| 750 | 5.921 | 34.518 | 0.48 | 27.182 | 1.432 |
| 800 | 5.615 | 34.521 | 0.53 | 27.223 | 1.480 |
| 900 | 5.027 | 34.528 | 0.65 | 27.298 | 1.571 |
| 1000 | 4.589 | 34.542 | 0.87 | 27.359 | 1.656 |
| 1005 | 4.579 | 34.542 | 0.87 | 27.360 | 1.660 |

CAST EP1-88-OC -001 LAT 00 00.1S LONG 169 35.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 27.252 | 35.269 | 2.16 | 27.251 | 22.842 |
| 9. | 27.251 | 35.268 | 2.31 | 27.249 | 22.842 |
| 19. | 27.256 | 35.268 | 2.36 | 27.252 | 22.841 |
| 40. | 27.125 | 35.264 | 2.44 | 27.116 | 22.882 |
| 59. | 27.067 | 35.268 | 2.34 | 27.053 | 22.905 |
| 79. | 26.623 | 35.388 | 2.03 | 26.605 | 23.138 |
| 99. | 24.840 | 35.334 | 1.70 | 24.819 | 23.651 |
| 123. | 21.094 | 35.138 | 1.56 | 21.070 | 24.581 |
| 150. | 17.053 | 34.906 | 1.64 | 17.028 | 25.436 |
| 202. | 14.498 | 35.048 | 1.59 | 14.468 | 26.125 |
| 250. | 12.477 | 34.875 | 1.40 | 12.444 | 26.407 |
| 298. | 10.902 | 34.773 | 0.61 | 10.865 | 26.623 |

CAST EP1-88-OC -002 LAT 00 00.6S LONG 169 33.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 8.355 | 34.626 | 0.91 | 8.303 | 26.935 |
| 997. | 4.533 | 34.555 | 0.96 | 4.453 | 27.384 |
| 1494. | 3.006 | 34.604 | 1.08 | 2.899 | 27.578 |
| 2002. | 2.263 | 34.640 | 1.23 | 2.122 | 27.674 |
| 2494. | 1.891 | 34.660 | 1.42 | 1.713 | 27.722 |
| 3004. | 1.668 | 34.672 | 1.58 | 1.447 | 27.751 |
| 3493. | 1.542 | 34.681 | 1.73 | 1.275 | 27.770 |
| 3993. | 1.418 | 34.692 | 1.94 | 1.102 | 27.791 |
| 4492. | 1.250 | 34.702 | 2.26 | 0.884 | 27.814 |
| 4992. | 1.251 | 34.706 | 2.37 | 0.826 | 27.820 |
| 5476. | 1.309 | 34.705 | 2.42 | 0.822 | 27.820 |

CAST EP1-88-OC -003 LAT 00 00.2N LONG 164 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 26.601 | 35.269 | 2.06 | 26.600 | 23.050 |
| 10. | 26.594 | 35.268 | 2.07 | 26.592 | 23.052 |
| 19. | 26.594 | 35.269 | 2.04 | 26.590 | 23.053 |
| 39. | 26.430 | 35.252 | 1.94 | 26.421 | 23.093 |
| 60. | 26.054 | 35.261 | 1.90 | 26.041 | 23.220 |
| 80. | 24.487 | 35.286 | 1.69 | 24.470 | 23.719 |
| 98. | 22.284 | 35.163 | 1.57 | 22.264 | 24.269 |
| 124. | 19.993 | 35.330 | 1.54 | 19.970 | 25.023 |
| 151. | 16.742 | 34.921 | 1.60 | 16.717 | 25.521 |
| 198. | 14.657 | 34.986 | 1.57 | 14.628 | 26.043 |
| 250. | 12.404 | 34.861 | 1.44 | 12.371 | 26.410 |
| 297. | 11.625 | 34.818 | 0.97 | 11.587 | 26.526 |

CAST EP1-88-OC -004 LAT 00 00.6S LONG 164 54.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 498. | 8.502 | 34.638 | 0.93 | 8.449 | 26.922 |
| 995. | 4.458 | 34.556 | 0.99 | 4.379 | 27.393 |
| 1495. | 3.015 | 34.606 | 1.04 | 2.907 | 27.579 |
| 1986. | 2.330 | 34.638 | 1.18 | 2.190 | 27.666 |
| 2495. | 1.831 | 34.665 | 1.39 | 1.654 | 27.730 |
| 3013. | 1.627 | 34.676 | 1.58 | 1.406 | 27.757 |
| 3495. | 1.517 | 34.684 | 1.72 | 1.251 | 27.774 |
| 3996. | 1.429 | 34.692 | 1.88 | 1.112 | 27.790 |
| 4494. | 1.257 | 34.704 | 2.19 | 0.890 | 27.815 |
| 4992. | 1.202 | 34.709 | 2.37 | 0.779 | 27.826 |
| 5837. | 1.303 | 34.708 | 2.44 | 0.770 | 27.826 |

CAST EP1-88-OC -005 LAT 00 04.1N LONG 160 01.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 497. | 8.268 | 34.623 | 0.84 | 8.216 | 26.946 |
| 997. | 4.667 | 34.554 | 0.93 | 4.586 | 27.369 |
| 1497. | 3.057 | 34.603 | 1.03 | 2.949 | 27.573 |
| 1994. | 2.303 | 34.639 | 1.21 | 2.162 | 27.669 |
| 2496. | 1.908 | 34.661 | 1.35 | 1.730 | 27.721 |
| 2995. | 1.672 | 34.673 | 1.55 | 1.452 | 27.751 |
| 3494. | 1.532 | 34.682 | 1.72 | 1.266 | 27.772 |
| 3995. | 1.415 | 34.692 | 1.89 | 1.099 | 27.791 |
| 4495. | 1.256 | 34.702 | 2.19 | 0.889 | 27.813 |
| 4991. | 1.234 | 34.705 | 2.29 | 0.833 | 27.819 |
| 5149. | 1.238 | 34.706 | 2.39 | 0.794 | 27.823 |

CAST EP1-88-OC -006 LAT 00 00.9S LONG 159 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 26.589 | 35.297 | 2.10 | 26.588 | 23.075 |
| 12. | 26.529 | 35.296 | 2.00 | 26.526 | 23.093 |
| 21. | 26.492 | 35.295 | 2.25 | 26.487 | 23.105 |
| 39. | 26.129 | 35.308 | 2.29 | 26.120 | 23.230 |
| 60. | 25.856 | 35.342 | 2.20 | 25.843 | 23.342 |
| 78. | 25.456 | 35.412 | 1.87 | 25.439 | 23.520 |
| 98. | 23.204 | 35.238 | 1.53 | 23.184 | 24.063 |
| 123. | 20.089 | 35.141 | 1.53 | 20.066 | 24.853 |
| 150. | 16.744 | 35.044 | 1.58 | 16.720 | 25.615 |
| 196. | 13.995 | 34.957 | 1.53 | 13.967 | 26.162 |
| 248. | 12.376 | 34.859 | 1.24 | 12.343 | 26.414 |
| 302. | 11.750 | 34.843 | 0.80 | 11.711 | 26.522 |

CAST EP1-88-OC -007 LAT 00 00.0N LONG 153 58.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 496. | 8.083 | 34.616 | 0.85 | 8.032 | 26.968 |
| 996. | 4.609 | 34.553 | 0.96 | 4.529 | 27.374 |
| 1494. | 3.091 | 34.601 | 1.05 | 2.983 | 27.568 |
| 1734. | 2.587 | 34.624 | 1.14 | 2.465 | 27.632 |
| 1994. | 2.283 | 34.641 | 1.20 | 2.143 | 27.673 |
| 2495. | 1.848 | 34.664 | 1.39 | 1.671 | 27.728 |
| 2994. | 1.681 | 34.674 | 1.55 | 1.461 | 27.751 |
| 3496. | 1.526 | 34.684 | 1.72 | 1.260 | 27.774 |
| 3996. | 1.426 | 34.692 | 1.88 | 1.110 | 27.791 |
| 4497. | 1.354 | 34.699 | 2.10 | 0.984 | 27.805 |
| 4850. | 1.308 | 34.703 | 2.27 | 0.898 | 27.813 |

CAST EP1-88-OC -008 LAT 00 00.1S LONG 153 57.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 25.727 | 35.080 | 2.17 | 25.726 | 23.181 |
| 11. | 25.690 | 35.086 | 2.24 | 25.687 | 23.197 |
| 19. | 25.719 | 35.082 | 2.27 | 25.715 | 23.186 |
| 41. | 25.262 | 35.138 | 2.21 | 25.253 | 23.370 |
| 60. | 24.353 | 35.235 | 1.82 | 24.340 | 23.720 |
| 80. | 21.900 | 35.264 | 1.67 | 21.884 | 24.452 |
| 100. | 19.631 | 35.201 | 1.57 | 19.613 | 25.018 |
| 123. | 16.398 | 34.862 | 1.66 | 16.378 | 25.555 |
| 151. | 15.302 | 34.925 | 1.59 | 15.279 | 25.853 |
| 199. | 12.030 | 34.858 | 0.98 | 12.004 | 26.479 |
| 250. | 11.528 | 34.818 | 0.57 | 11.496 | 26.543 |
| 299. | 10.762 | 34.769 | 0.55 | 10.726 | 26.645 |

CAST EP1-88-OC -009 LAT 00 00.7N LONG 149 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 502. | 7.773 | 34.601 | 0.85 | 7.722 | 27.002 |
| 995. | 4.422 | 34.558 | 0.96 | 4.343 | 27.398 |
| 1492. | 3.031 | 34.604 | 1.01 | 2.923 | 27.576 |
| 1743. | 2.513 | 34.626 | 1.18 | 2.391 | 27.640 |
| 1994. | 2.306 | 34.638 | 1.19 | 2.165 | 27.668 |
| 2249. | 1.990 | 34.656 | 1.33 | 1.832 | 27.709 |
| 2494. | 1.845 | 34.663 | 1.40 | 1.668 | 27.727 |
| 2962. | 1.673 | 34.672 | 1.57 | 1.456 | 27.750 |
| 3496. | 1.470 | 34.686 | 1.78 | 1.205 | 27.779 |
| 3992. | 1.386 | 34.694 | 1.94 | 1.071 | 27.795 |
| 4495. | 1.365 | 34.697 | 2.12 | 0.995 | 27.802 |

CAST EP1-88-OC -010 LAT 00 01.3N LONG 149 58.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 24.705 | 35.071 | 2.07 | 24.704 | 23.486 |
| 10. | 24.711 | 35.071 | 2.11 | 24.709 | 23.485 |
| 20. | 24.711 | 35.071 | 2.17 | 24.707 | 23.486 |
| 39. | 24.534 | 35.079 | 2.09 | 24.526 | 23.546 |
| 59. | 23.766 | 35.084 | 1.89 | 23.754 | 23.779 |
| 79. | 21.697 | 35.058 | 1.65 | 21.682 | 24.352 |
| 101. | 18.927 | 35.102 | 1.60 | 18.909 | 25.123 |
| 125. | 16.947 | 35.016 | 1.57 | 16.926 | 25.545 |
| 148. | 15.689 | 35.004 | 1.60 | 15.666 | 25.828 |
| 201. | 12.838 | 34.902 | 1.40 | 12.811 | 26.355 |
| 251. | 12.038 | 34.852 | 0.91 | 12.005 | 26.474 |
| 299. | 11.450 | 34.815 | 0.56 | 11.412 | 26.557 |

CAST EP1-88-OC -011 LAT 00 00.6S LONG 144 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 8.314 | 34.636 | 0.45 | 8.262 | 26.949 |
| 995. | 4.542 | 34.556 | 0.92 | 4.462 | 27.384 |
| 1244. | 3.691 | 34.581 | 0.93 | 3.597 | 27.494 |
| 1496. | 3.036 | 34.605 | 1.00 | 2.928 | 27.576 |
| 1746. | 2.572 | 34.624 | 1.14 | 2.449 | 27.634 |
| 1995. | 2.233 | 34.644 | 1.21 | 2.093 | 27.679 |
| 2499. | 1.868 | 34.664 | 1.40 | 1.690 | 27.726 |
| 2995. | 1.672 | 34.674 | 1.57 | 1.452 | 27.752 |
| 3491. | 1.481 | 34.687 | 1.79 | 1.216 | 27.779 |
| 3995. | 1.391 | 34.695 | 1.98 | 1.076 | 27.795 |
| 4291. | 1.401 | 34.696 | 1.99 | 1.053 | 27.798 |

CAST EP1-88-OC -012 LAT 00 01.3S LONG 144 56.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 26.201 | 35.394 | 2.14 | 26.200 | 23.270 |
| 11. | 26.204 | 35.391 | 2.26 | 26.202 | 23.267 |
| 19. | 26.193 | 35.389 | 2.32 | 26.189 | 23.270 |
| 40. | 25.495 | 35.407 | 2.29 | 25.486 | 23.502 |
| 60. | 23.068 | 35.438 | 1.89 | 23.056 | 24.251 |
| 80. | 19.262 | 35.287 | 1.61 | 19.248 | 25.178 |
| 100. | 17.205 | 35.052 | 1.62 | 17.188 | 25.510 |
| 124. | 16.436 | 35.088 | 1.62 | 16.416 | 25.720 |
| 150. | 15.043 | 35.088 | 1.57 | 15.020 | 26.036 |
| 199. | 12.695 | 34.896 | 1.23 | 12.668 | 26.379 |
| 250. | 11.726 | 34.832 | 0.62 | 11.694 | 26.517 |

CAST EPI-88-OC -013 LAT 01 59.3S LONG 139 57.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 496. | 7.585 | 34.599 | 0.86 | 7.536 | 27.027 |
| 995. | 4.637 | 34.552 | 1.02 | 4.557 | 27.370 |
| 1246. | 3.751 | 34.574 | 1.04 | 3.657 | 27.482 |
| 1495. | 3.110 | 34.600 | 1.09 | 3.001 | 27.566 |
| 1745. | 2.610 | 34.622 | 1.22 | 2.486 | 27.629 |
| 1979. | 2.323 | 34.642 | 1.18 | 2.183 | 27.670 |
| 2498. | 1.924 | 34.660 | 1.42 | 1.745 | 27.719 |
| 3033. | 1.686 | 34.673 | 1.62 | 1.462 | 27.751 |
| 3493. | 1.498 | 34.687 | 1.82 | 1.233 | 27.778 |
| 3992. | 1.410 | 34.693 | 1.99 | 1.094 | 27.792 |
| 4284. | 1.414 | 34.695 | 2.04 | 1.066 | 27.796 |

CAST EPI-88-OC -016 LAT 01 00.2S LONG 139 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 23.528 | 35.110 | 2.21 | 23.528 | 23.865 |
| 19. | 23.453 | 35.109 | 2.26 | 23.449 | 23.888 |
| 37. | 23.254 | 35.111 | 2.28 | 23.246 | 23.948 |
| 59. | 22.167 | 35.175 | 1.97 | 22.155 | 24.309 |
| 79. | 21.408 | 35.356 | 1.83 | 21.393 | 24.659 |
| 104. | 17.570 | 35.210 | 1.51 | 17.552 | 25.544 |
| 123. | 15.495 | 35.114 | 1.58 | 15.476 | 25.955 |
| 146. | 14.299 | 35.030 | 1.55 | 14.278 | 26.152 |
| 199. | 12.524 | 34.918 | 1.20 | 12.497 | 26.430 |
| 299. | 11.479 | 34.829 | 0.74 | 11.441 | 26.562 |
| 497. | 8.320 | 34.641 | 0.50 | 8.268 | 26.952 |
| 993. | 4.622 | 34.557 | 0.17 | 4.542 | 27.376 |

CAST EPI-88-OC -014 LAT 01 58.7S LONG 139 56.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 23.385 | 35.268 | 2.06 | 23.384 | 24.027 |
| 10. | 23.389 | 35.270 | 2.09 | 23.387 | 24.028 |
| 19. | 23.406 | 35.277 | 2.22 | 23.402 | 24.029 |
| 39. | 23.412 | 35.135 | 2.33 | 23.404 | 23.920 |
| 59. | 23.415 | 35.275 | 2.42 | 23.403 | 24.027 |
| 80. | 23.481 | 35.318 | 2.40 | 23.465 | 24.041 |
| 100. | 18.958 | 35.551 | 1.26 | 18.940 | 25.459 |
| 124. | 14.569 | 35.081 | 0.57 | 14.551 | 26.133 |
| 151. | 12.996 | 34.924 | 0.24 | 12.975 | 26.340 |
| 196. | 12.515 | 34.892 | 0.28 | 12.489 | 26.411 |
| 250. | 12.135 | 34.871 | 0.17 | 12.102 | 26.470 |
| 299. | 11.582 | 34.843 | 0.13 | 11.544 | 26.554 |

CAST EPI-88-OC -017 LAT 00 29.9S LONG 139 59.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 5. | 23.890 | 35.013 | 2.35 | 23.889 | 23.686 |
| 18. | 23.835 | 35.013 | 2.47 | 23.831 | 23.703 |
| 40. | 22.946 | 35.006 | 2.42 | 22.938 | 23.958 |
| 59. | 21.538 | 35.010 | 2.01 | 21.527 | 24.359 |
| 80. | 18.309 | 35.119 | 1.73 | 18.295 | 25.291 |
| 97. | 16.792 | 34.949 | 1.73 | 16.776 | 25.529 |
| 123. | 14.658 | 34.993 | 1.53 | 14.640 | 26.046 |
| 149. | 12.558 | 34.876 | 1.29 | 12.538 | 26.389 |
| 199. | 12.137 | 34.870 | 0.97 | 12.111 | 26.467 |
| 298. | 11.131 | 34.799 | 0.61 | 11.094 | 26.602 |
| 499. | 8.464 | 34.651 | 0.50 | 8.411 | 26.938 |
| 1012. | 4.604 | 34.561 | 0.95 | 4.523 | 27.381 |

CAST EPI-88-OC -015 LAT 01 30.3S LONG 139 59.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 23.255 | 35.134 | 2.06 | 23.254 | 23.963 |
| 21. | 23.125 | 35.136 | 2.03 | 23.121 | 24.003 |
| 40. | 23.009 | 35.169 | 2.07 | 23.001 | 24.063 |
| 60. | 22.941 | 35.256 | 2.01 | 22.929 | 24.150 |
| 80. | 22.960 | 35.411 | 2.74 | 22.944 | 24.263 |
| 99. | 18.771 | 35.484 | 1.29 | 18.753 | 25.455 |
| 124. | 15.687 | 35.209 | 1.34 | 15.668 | 25.985 |
| 149. | 14.375 | 35.096 | 1.24 | 14.353 | 26.187 |
| 199. | 12.617 | 34.899 | 0.20 | 12.590 | 26.397 |
| 298. | 11.707 | 34.851 | 0.23 | 11.669 | 26.537 |
| 497. | 8.060 | 34.623 | 0.63 | 8.009 | 26.977 |
| 997. | 4.688 | 34.555 | 0.94 | 4.607 | 27.367 |

CAST EPI-88-OC -018 LAT 00 02.0S LONG 139 54.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 24.249 | 34.961 | 2.50 | 24.248 | 23.540 |
| 123. | 14.183 | 34.853 | 1.51 | 14.165 | 26.039 |
| 250. | 11.772 | 34.842 | 0.54 | 11.740 | 26.516 |

CAST EPI-88-OC -019 LAT 00 02.8S LONG 139 53.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 8.442 | 34.651 | 0.45 | 8.389 | 26.941 |
| 746. | 5.706 | 34.557 | 0.80 | 5.641 | 27.248 |
| 998. | 4.588 | 34.562 | 0.92 | 4.508 | 27.384 |
| 1245. | 3.802 | 34.581 | 0.90 | 3.707 | 27.483 |
| 1495. | 3.167 | 34.604 | 1.07 | 3.058 | 27.564 |
| 1998. | 2.287 | 34.648 | 1.20 | 2.146 | 27.678 |
| 2494. | 1.874 | 34.670 | 1.43 | 1.697 | 27.731 |
| 2993. | 1.705 | 34.680 | 1.57 | 1.484 | 27.755 |
| 3506. | 1.494 | 34.691 | 1.81 | 1.227 | 27.782 |
| 3995. | 1.402 | 34.698 | 1.97 | 1.086 | 27.797 |
| 4264. | 1.409 | 34.701 | 2.05 | 1.063 | 27.801 |

CAST EPI-88-OC -020 LAT 00 00.3S LONG 139 57.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 24.327 | 34.962 | 2.26 | 24.327 | 23.517 |
| 11. | 24.320 | 34.962 | 2.38 | 24.318 | 23.520 |
| 21. | 24.315 | 34.962 | 2.50 | 24.311 | 23.522 |
| 38. | 24.137 | 34.965 | 2.43 | 24.129 | 23.578 |
| 58. | 20.276 | 34.876 | 1.61 | 20.265 | 24.598 |
| 79. | 16.609 | 34.858 | 1.63 | 16.596 | 25.501 |
| 100. | 15.141 | 34.891 | 1.60 | 15.126 | 25.861 |
| 123. | 13.620 | 34.810 | 1.49 | 13.603 | 26.124 |
| 150. | 12.492 | 34.861 | 1.19 | 12.472 | 26.390 |
| 199. | 11.909 | 34.830 | 0.78 | 11.883 | 26.480 |
| 248. | 11.590 | 34.829 | 0.56 | 11.558 | 26.540 |
| 299. | 10.766 | 34.776 | 0.64 | 10.730 | 26.650 |

CAST EPI-88-OC -021 LAT 00 29.9N LONG 140 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 25.090 | 34.931 | 1.77 | 25.089 | 23.264 |
| 19. | 25.052 | 34.931 | 1.90 | 25.048 | 23.276 |
| 40. | 23.729 | 34.891 | 1.67 | 23.721 | 23.643 |
| 59. | 16.908 | 34.762 | 1.07 | 16.898 | 25.357 |
| 79. | 14.200 | 34.701 | 1.05 | 14.188 | 25.917 |
| 99. | 13.004 | 34.718 | 0.99 | 12.990 | 26.177 |
| 124. | 12.265 | 34.788 | 0.77 | 12.249 | 26.377 |
| 148. | 12.207 | 34.821 | 0.70 | 12.188 | 26.415 |
| 199. | 11.998 | 34.842 | 0.57 | 11.972 | 26.472 |
| 300. | 10.742 | 34.762 | 0.40 | 10.706 | 26.644 |
| 498. | 8.027 | 34.628 | 0.30 | 7.976 | 26.986 |
| 977. | 4.795 | 34.552 | 0.64 | 4.715 | 27.353 |

CAST EPI-88-OC -022 LAT 00 58.5N LONG 139 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 25.439 | 34.952 | 1.68 | 25.438 | 23.173 |
| 19. | 25.196 | 34.946 | 1.87 | 25.192 | 23.248 |
| 40. | 24.420 | 34.891 | 1.70 | 24.412 | 23.438 |
| 59. | 18.937 | 34.802 | 0.96 | 18.926 | 24.890 |
| 79. | 15.219 | 34.747 | 0.83 | 15.207 | 25.732 |
| 100. | 13.458 | 34.750 | 0.81 | 13.444 | 26.110 |
| 121. | 12.320 | 34.802 | 0.67 | 12.304 | 26.377 |
| 149. | 12.034 | 34.826 | 0.54 | 12.015 | 26.452 |
| 198. | 11.924 | 34.831 | 0.46 | 11.898 | 26.478 |
| 299. | 10.418 | 34.721 | 0.39 | 10.382 | 26.668 |
| 501. | 8.174 | 34.622 | 0.34 | 8.122 | 26.959 |
| 969. | 4.671 | 34.545 | 0.63 | 4.593 | 27.361 |

CAST EPI-88-OC -023 LAT 01 29.6N LONG 140 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 25.257 | 34.973 | 1.73 | 25.256 | 23.245 |
| 19. | 25.054 | 34.960 | 1.72 | 25.050 | 23.298 |
| 40. | 21.365 | 34.826 | 1.21 | 21.357 | 24.265 |
| 59. | 17.289 | 34.822 | 0.82 | 17.279 | 25.312 |
| 81. | 15.607 | 34.873 | 0.62 | 15.594 | 25.743 |
| 99. | 13.734 | 34.844 | 0.58 | 13.720 | 26.126 |
| 149. | 12.569 | 34.871 | 0.26 | 12.549 | 26.383 |
| 197. | 11.887 | 34.828 | 0.31 | 11.861 | 26.482 |
| 249. | 11.297 | 34.790 | 0.32 | 11.266 | 26.564 |
| 297. | 10.717 | 34.751 | 0.24 | 10.681 | 26.639 |
| 497. | 8.162 | 34.627 | 0.35 | 8.110 | 26.965 |
| 999. | 4.601 | 34.554 | 0.64 | 4.521 | 27.376 |

CAST EPI-88-OC -024 LAT 02 01.1N LONG 139 58.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 497. | 8.168 | 34.625 | 0.32 | 8.116 | 26.962 |
| 747. | 6.118 | 34.555 | 0.53 | 6.051 | 27.195 |
| 996. | 4.608 | 34.554 | 0.64 | 4.528 | 27.375 |
| 1248. | 3.717 | 34.581 | 0.61 | 3.623 | 27.491 |
| 1495. | 3.204 | 34.602 | 0.63 | 3.094 | 27.559 |
| 1992. | 2.327 | 34.640 | 0.79 | 2.186 | 27.668 |
| 2494. | 1.836 | 34.665 | 0.97 | 1.659 | 27.730 |
| 2994. | 1.699 | 34.674 | 1.07 | 1.478 | 27.750 |
| 3503. | 1.485 | 34.686 | 1.23 | 1.219 | 27.778 |
| 3995. | 1.434 | 34.692 | 1.31 | 1.117 | 27.790 |
| 4441. | 1.424 | 34.694 | 1.38 | 1.058 | 27.795 |

CAST EPI-88-OC -025 LAT 02 01.0N LONG 139 58.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 24.619 | 34.975 | 1.70 | 24.619 | 23.440 |
| 10. | 24.630 | 34.974 | 1.76 | 24.628 | 23.436 |
| 21. | 24.615 | 34.980 | 1.78 | 24.611 | 23.446 |
| 41. | 24.298 | 34.954 | 1.91 | 24.289 | 23.522 |
| 59. | 22.818 | 34.887 | 1.61 | 22.806 | 23.905 |
| 80. | 15.465 | 34.868 | 0.62 | 15.453 | 25.771 |
| 100. | 14.000 | 34.946 | 0.50 | 13.986 | 26.149 |
| 124. | 13.155 | 34.902 | 0.39 | 13.138 | 26.290 |
| 151. | 12.802 | 34.888 | 0.26 | 12.782 | 26.350 |
| 201. | 12.110 | 34.844 | 0.21 | 12.084 | 26.452 |
| 249. | 11.547 | 34.806 | 0.28 | 11.515 | 26.530 |
| 300. | 10.663 | 34.744 | 0.27 | 10.627 | 26.643 |

CAST EPI-88-OC -028 LAT 05 00.1N LONG 140 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 26.825 | 34.879 | 1.63 | 26.824 | 22.685 |
| 10. | 26.828 | 34.882 | 1.68 | 26.826 | 22.686 |
| 20. | 26.809 | 34.878 | 1.70 | 26.804 | 22.690 |
| 42. | 26.503 | 34.888 | 1.77 | 26.494 | 22.796 |
| 59. | 26.398 | 34.898 | 1.83 | 26.385 | 22.838 |
| 79. | 26.359 | 34.905 | 1.94 | 26.341 | 22.857 |
| 100. | 25.265 | 34.965 | 1.81 | 25.243 | 23.243 |
| 125. | 17.258 | 34.751 | 0.92 | 17.237 | 25.268 |
| 148. | 14.554 | 34.649 | 0.68 | 14.532 | 25.804 |
| 198. | 11.218 | 34.631 | 0.42 | 11.193 | 26.454 |
| 248. | 10.152 | 34.652 | 0.52 | 10.123 | 26.660 |
| 299. | 9.569 | 34.660 | 0.48 | 9.535 | 26.765 |

CAST EPI-88-OC -026 LAT 02 59.2N LONG 140 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 25.732 | 34.824 | 1.69 | 25.732 | 22.986 |
| 19. | 25.719 | 34.823 | 1.82 | 25.715 | 22.990 |
| 40. | 23.657 | 34.889 | 1.95 | 23.649 | 23.663 |
| 60. | 22.444 | 34.901 | 1.87 | 22.432 | 24.022 |
| 81. | 17.745 | 34.770 | 0.93 | 17.731 | 25.163 |
| 99. | 14.299 | 34.778 | 0.73 | 14.285 | 25.956 |
| 123. | 12.525 | 34.778 | 0.69 | 12.509 | 26.319 |
| 150. | 12.309 | 34.856 | 0.32 | 12.289 | 26.422 |
| 202. | 11.922 | 34.827 | 0.35 | 11.896 | 26.475 |
| 300. | 10.794 | 34.754 | 0.29 | 10.757 | 26.628 |
| 500. | 7.744 | 34.609 | 0.13 | 7.694 | 27.012 |
| 1021. | 4.309 | 34.563 | 0.60 | 4.229 | 27.415 |

CAST EPI-88-OC -029 LAT 04 59.0N LONG 139 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 7.797 | 34.608 | 0.04 | 7.747 | 27.004 |
| 745. | 5.477 | 34.550 | 0.30 | 5.414 | 27.270 |
| 995. | 4.442 | 34.562 | 0.50 | 4.363 | 27.399 |
| 1249. | 3.685 | 34.583 | 0.55 | 3.591 | 27.496 |
| 1496. | 3.144 | 34.603 | 0.69 | 3.035 | 27.565 |
| 1990. | 2.333 | 34.638 | 0.76 | 2.192 | 27.666 |
| 2496. | 1.915 | 34.663 | 0.90 | 1.737 | 27.722 |
| 2996. | 1.758 | 34.673 | 0.98 | 1.536 | 27.745 |
| 3495. | 1.531 | 34.684 | 1.19 | 1.265 | 27.773 |
| 3974. | 1.418 | 34.692 | 1.35 | 1.104 | 27.791 |
| 4498. | 1.403 | 34.696 | 1.43 | 1.031 | 27.799 |

CAST EPI-88-OC -027 LAT 03 59.6N LONG 140 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 27.135 | 34.848 | 1.68 | 27.134 | 22.562 |
| 20. | 27.016 | 34.845 | 1.79 | 27.011 | 22.599 |
| 39. | 27.003 | 34.845 | 1.90 | 26.994 | 22.605 |
| 60. | 26.216 | 34.870 | 1.81 | 26.202 | 22.874 |
| 80. | 24.202 | 34.903 | 1.59 | 24.185 | 23.515 |
| 99. | 18.867 | 34.770 | 0.96 | 18.849 | 24.885 |
| 124. | 14.406 | 34.687 | 0.95 | 14.388 | 25.864 |
| 149. | 12.486 | 34.713 | 0.96 | 12.466 | 26.277 |
| 198. | 11.319 | 34.770 | 0.70 | 11.294 | 26.543 |
| 299. | 10.192 | 34.711 | 0.56 | 10.157 | 26.700 |
| 497. | 8.192 | 34.623 | 0.18 | 8.140 | 26.957 |
| 1008. | 4.425 | 34.563 | 0.49 | 4.345 | 27.402 |

CAST EPI-88-OC -030 LAT 05 59.8N LONG 139 59.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 27.999 | 34.454 | 1.71 | 27.999 | 21.987 |
| 20. | 27.776 | 34.465 | 1.82 | 27.771 | 22.069 |
| 42. | 27.316 | 34.650 | 1.81 | 27.306 | 22.358 |
| 60. | 26.783 | 34.796 | 1.92 | 26.769 | 22.640 |
| 78. | 25.813 | 34.820 | 1.83 | 25.796 | 22.963 |
| 96. | 19.738 | 34.737 | 1.10 | 19.720 | 24.636 |
| 122. | 13.603 | 34.630 | 0.65 | 13.586 | 25.988 |
| 150. | 11.810 | 34.699 | 0.14 | 11.791 | 26.396 |
| 199. | 10.561 | 34.701 | 0.24 | 10.537 | 26.626 |
| 297. | 9.562 | 34.676 | 0.22 | 9.528 | 26.779 |
| 496. | 8.289 | 34.620 | 0.00 | 8.237 | 26.940 |
| 1000. | 4.549 | 34.562 | 0.38 | 4.469 | 27.388 |

CAST EPI-88-OC -034 LAT 08 59.0N LONG 140 10.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 5. | 27.633 | 34.168 | 1.70 | 27.632 | 21.891 |
| 10. | 27.628 | 34.168 | 1.82 | 27.626 | 21.893 |
| 20. | 27.601 | 34.172 | 1.90 | 27.596 | 21.905 |
| 39. | 27.545 | 34.227 | 1.96 | 27.536 | 21.966 |
| 60. | 26.529 | 34.348 | 1.73 | 26.515 | 22.382 |
| 79. | 14.683 | 34.554 | 0.34 | 14.671 | 25.700 |
| 99. | 12.711 | 34.651 | 0.25 | 12.698 | 26.183 |
| 124. | 11.979 | 34.728 | 0.09 | 11.963 | 26.385 |
| 149. | 11.572 | 34.743 | 0.07 | 11.553 | 26.474 |
| 199. | 10.770 | 34.712 | 0.18 | 10.746 | 26.597 |
| 251. | 10.221 | 34.697 | 0.05 | 10.191 | 26.683 |
| 299. | 9.852 | 34.691 | 0.00 | 9.818 | 26.742 |

CAST EPI-88-OC -031 LAT 06 58.7N LONG 140 00.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 27.475 | 33.646 | 1.64 | 27.475 | 21.549 |
| 11. | 27.647 | 34.095 | 1.74 | 27.644 | 21.832 |
| 20. | 27.591 | 34.118 | 1.74 | 27.586 | 21.868 |
| 40. | 27.534 | 34.274 | 1.91 | 27.525 | 22.005 |
| 60. | 24.932 | 34.572 | 1.46 | 24.919 | 23.044 |
| 81. | 16.698 | 34.676 | 0.82 | 16.685 | 25.341 |
| 99. | 13.726 | 34.600 | 0.48 | 13.712 | 25.939 |
| 125. | 12.312 | 34.651 | 0.28 | 12.296 | 26.262 |
| 150. | 11.117 | 34.673 | 0.32 | 11.098 | 26.504 |
| 200. | 10.381 | 34.688 | 0.39 | 10.357 | 26.647 |
| 249. | 9.982 | 34.687 | 0.34 | 9.953 | 26.716 |
| 299. | 9.651 | 34.676 | 0.31 | 9.617 | 26.764 |

CAST EPI-88-OC -035 LAT 08 59.9N LONG 140 08.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 498. | 8.329 | 34.604 | 0.00 | 8.277 | 26.921 |
| 751. | 5.744 | 34.535 | 0.09 | 5.678 | 27.226 |
| 997. | 4.505 | 34.558 | 0.25 | 4.426 | 27.389 |
| 1495. | 3.100 | 34.601 | 0.53 | 2.991 | 27.567 |
| 1995. | 2.240 | 34.634 | 0.77 | 2.100 | 27.670 |
| 2497. | 1.890 | 34.662 | 0.88 | 1.712 | 27.723 |
| 2995. | 1.726 | 34.671 | 0.98 | 1.505 | 27.746 |
| 3496. | 1.555 | 34.679 | 1.13 | 1.288 | 27.768 |
| 3993. | 1.407 | 34.692 | 1.34 | 1.091 | 27.792 |
| 4493. | 1.403 | 34.695 | 1.43 | 1.032 | 27.798 |
| 5138. | 1.456 | 34.698 | 1.49 | 1.006 | 27.802 |

CAST EPI-88-OC -032 LAT 06 58.7N LONG 140 00.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 498. | 7.980 | 34.610 | 0.00 | 7.929 | 26.978 |
| 747. | 5.735 | 34.550 | 0.14 | 5.670 | 27.239 |
| 994. | 4.573 | 34.559 | 0.30 | 4.493 | 27.383 |
| 1490. | 3.053 | 34.606 | 0.55 | 2.945 | 27.576 |
| 1994. | 2.208 | 34.643 | 0.78 | 2.069 | 27.680 |
| 2493. | 1.889 | 34.664 | 0.89 | 1.711 | 27.725 |
| 2995. | 1.750 | 34.672 | 0.98 | 1.528 | 27.745 |
| 3497. | 1.535 | 34.684 | 1.17 | 1.268 | 27.773 |
| 3997. | 1.390 | 34.693 | 1.38 | 1.074 | 27.794 |
| 4494. | 1.391 | 34.694 | 1.43 | 1.020 | 27.798 |
| 5079. | 1.442 | 34.696 | 1.48 | 1.000 | 27.801 |

CAST EPI-88-OC -036 LAT 10 00.1N LONG 140 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 27.526 | 34.149 | 1.77 | 27.525 | 21.911 |
| 20. | 27.526 | 34.147 | 1.90 | 27.521 | 21.911 |
| 39. | 27.518 | 34.150 | 1.97 | 27.509 | 21.917 |
| 59. | 27.420 | 34.233 | 1.82 | 27.406 | 22.012 |
| 80. | 15.079 | 34.477 | 0.66 | 15.067 | 25.555 |
| 100. | 13.258 | 34.614 | 0.32 | 13.244 | 26.045 |
| 124. | 12.458 | 34.658 | 0.28 | 12.442 | 26.239 |
| 147. | 11.865 | 34.723 | 0.11 | 11.846 | 26.404 |
| 198. | 11.180 | 34.734 | 0.12 | 11.155 | 26.541 |
| 297. | 10.155 | 34.702 | 0.03 | 10.120 | 26.699 |
| 499. | 8.356 | 34.604 | 0.00 | 8.304 | 26.917 |
| 1000. | 4.529 | 34.551 | 0.19 | 4.449 | 27.381 |

CAST EPI-88-OC -033 LAT 08 00.0N LONG 140 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 27.810 | 34.110 | 1.72 | 27.810 | 21.790 |
| 19. | 27.644 | 34.108 | 1.83 | 27.640 | 21.843 |
| 41. | 27.550 | 34.252 | 1.82 | 27.541 | 21.983 |
| 59. | 21.053 | 34.568 | 1.78 | 21.042 | 24.155 |
| 79. | 15.674 | 34.596 | 0.77 | 15.662 | 25.514 |
| 100. | 12.936 | 34.627 | 0.21 | 12.922 | 26.120 |
| 126. | 11.820 | 34.713 | 0.11 | 11.804 | 26.404 |
| 150. | 11.326 | 34.714 | 0.18 | 11.307 | 26.497 |
| 199. | 10.353 | 34.666 | 0.43 | 10.329 | 26.635 |
| 297. | 9.603 | 34.677 | 0.21 | 9.569 | 26.773 |
| 497. | 8.117 | 34.611 | 0.00 | 8.066 | 26.959 |
| 998. | 4.631 | 34.556 | 0.37 | 4.551 | 27.374 |

CAST EP1-88-OC -037 LAT 11 00.2N LONG 140 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 27.016 | 34.374 | 1.72 | 27.015 | 22.244 |
| 20. | 27.022 | 34.373 | 1.79 | 27.018 | 22.242 |
| 39. | 26.984 | 34.374 | 1.76 | 26.975 | 22.256 |
| 60. | 23.332 | 34.506 | 1.98 | 23.320 | 23.468 |
| 80. | 20.766 | 34.675 | 1.90 | 20.751 | 24.315 |
| 100. | 17.590 | 34.488 | 1.46 | 17.573 | 24.985 |
| 124. | 14.043 | 34.417 | 0.63 | 14.025 | 25.732 |
| 150. | 12.797 | 34.674 | 0.00 | 12.777 | 26.185 |
| 200. | 11.613 | 34.730 | 0.00 | 11.588 | 26.458 |
| 299. | 10.234 | 34.686 | 0.00 | 10.199 | 26.673 |
| 498. | 8.129 | 34.580 | 0.07 | 8.077 | 26.933 |
| 987. | 4.682 | 34.549 | 0.26 | 4.602 | 27.363 |

CAST EP1-88-OC -038 LAT 12 00.2N LONG 140 00.5W

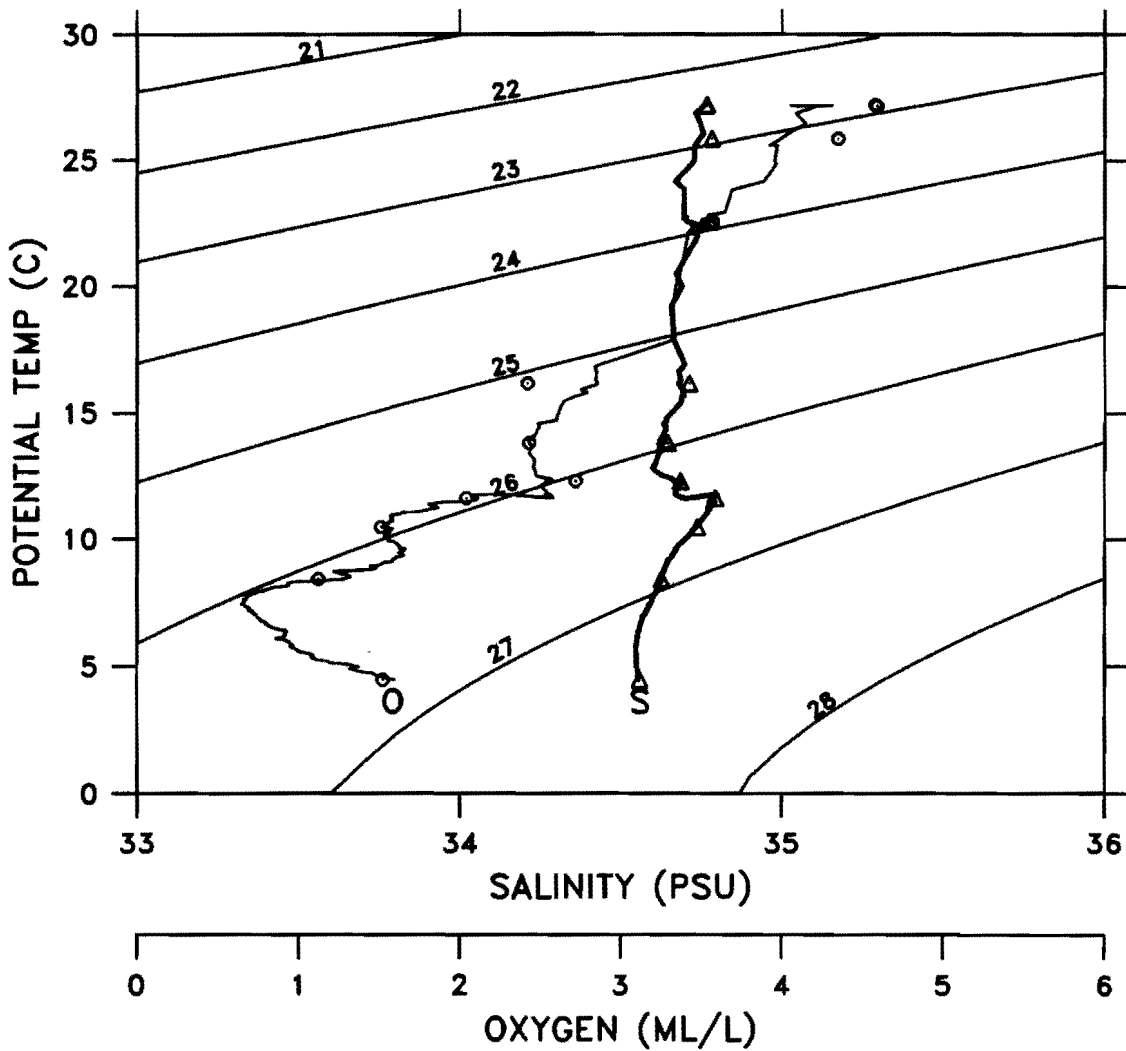
| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 25.913 | 34.362 | 1.70 | 25.913 | 22.581 |
| 21. | 25.913 | 34.361 | 1.79 | 25.908 | 22.582 |
| 40. | 25.910 | 34.361 | 1.84 | 25.901 | 22.584 |
| 61. | 23.930 | 34.280 | 1.98 | 23.917 | 23.122 |
| 78. | 22.768 | 34.799 | 2.00 | 22.752 | 23.854 |
| 97. | 21.468 | 34.771 | 2.01 | 21.449 | 24.198 |
| 123. | 17.956 | 34.524 | 1.61 | 17.935 | 24.925 |
| 150. | 13.725 | 34.354 | 0.89 | 13.704 | 25.750 |
| 199. | 12.036 | 34.719 | 0.00 | 12.010 | 26.369 |
| 298. | 10.685 | 34.711 | 0.00 | 10.649 | 26.614 |
| 498. | 8.404 | 34.577 | 0.00 | 8.351 | 26.889 |
| 1000. | 4.668 | 34.541 | 0.19 | 4.587 | 27.358 |

EP2-88-OC

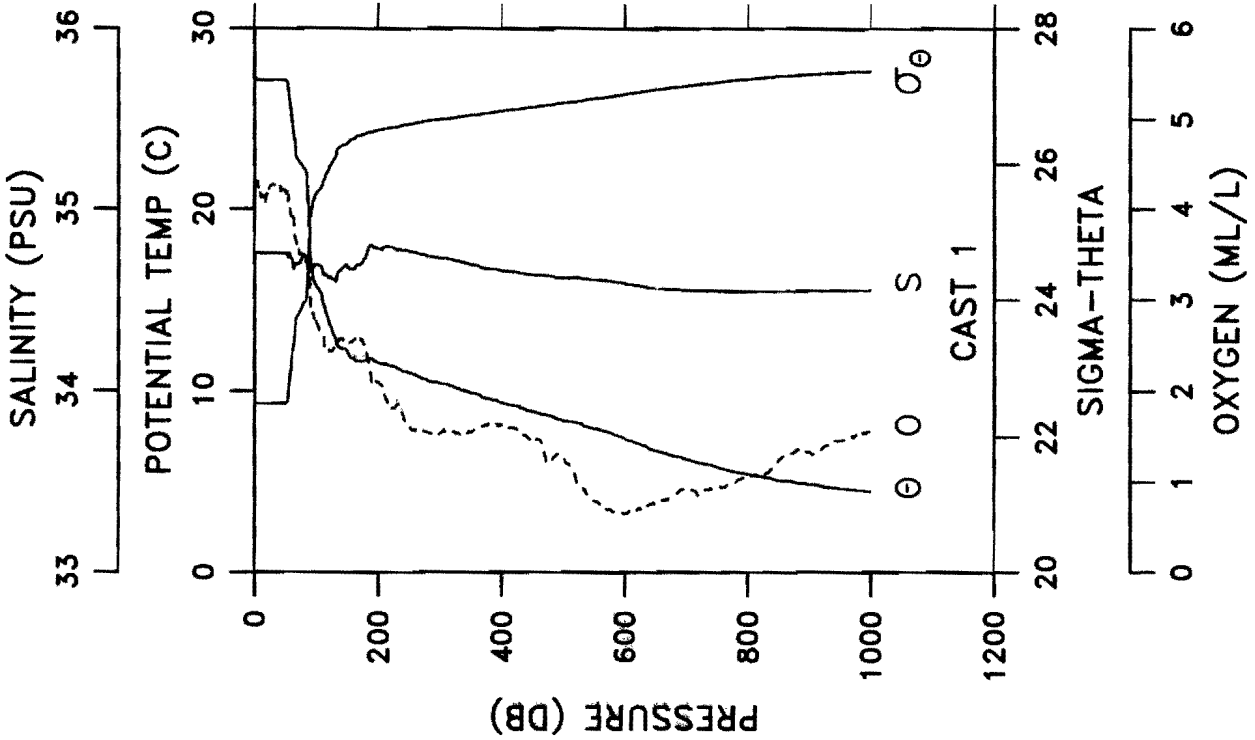
June 17–July 9, 1988

CTD/O₂ and Hydrographic Data Summary

CAST EP2-88-OC -001 DATE 21 JUN 88 TIME 2013 GMT
LAT 05 01.4N LONG 139 59.4W

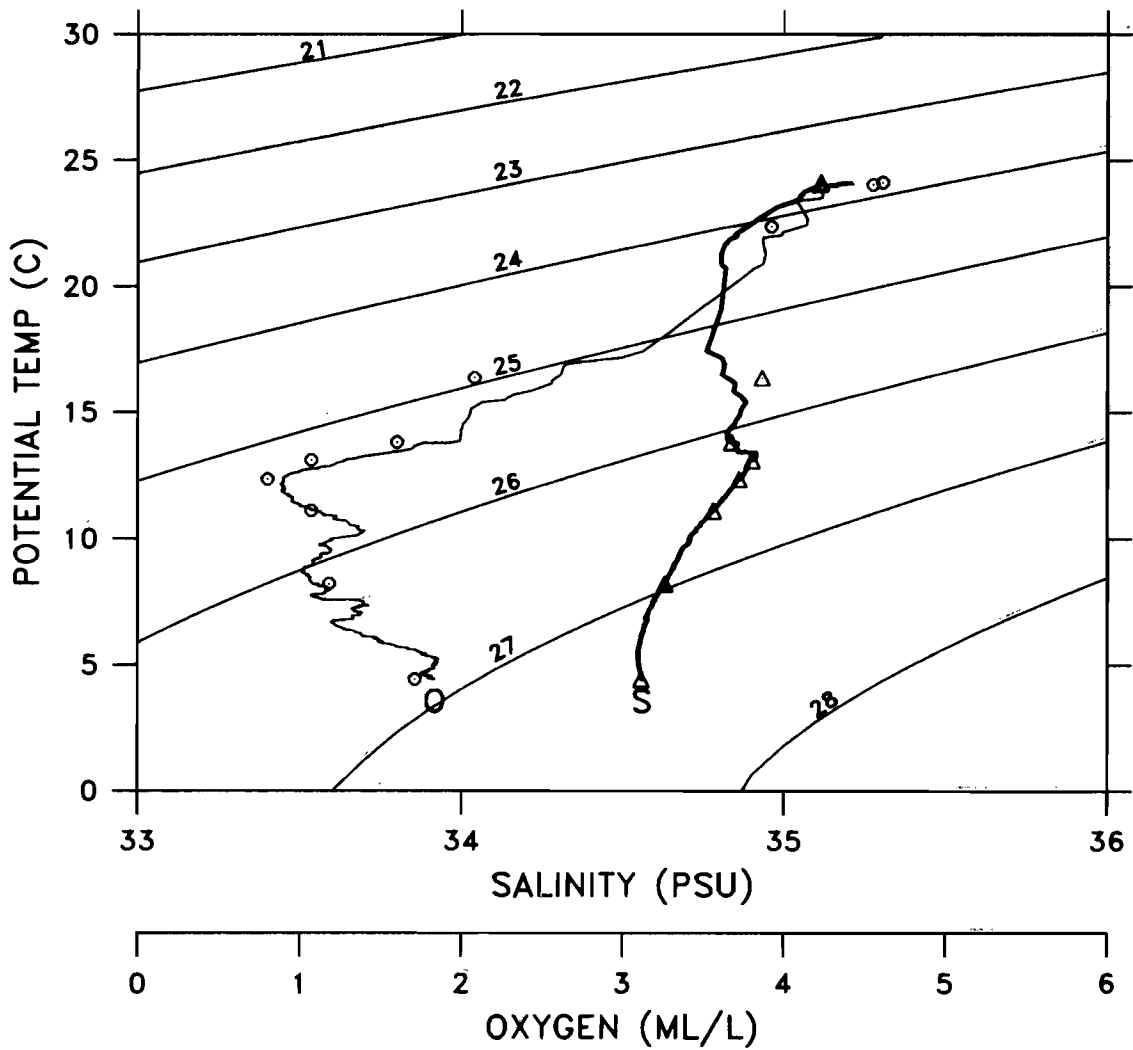


CAST EP2-88-OC -001 DATE 21 JUN 88 TIME 2013 GMT
 LAT 05 01.4N LONG 139 59.4W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 155 T SPD 16 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 26.7 WET 22.3 DEPTH 4450 M

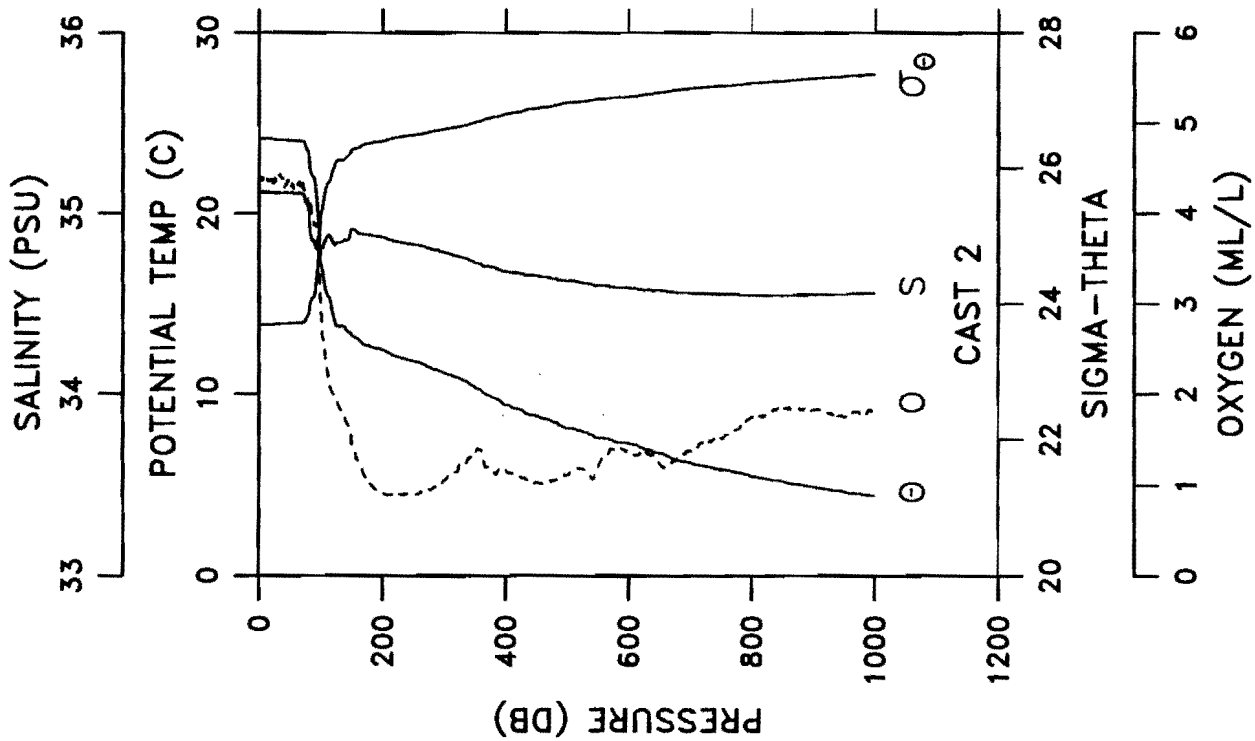


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.174 | 34.757 | 4.31 | 22.482 | 0.000 |
| 10 | 27.170 | 34.756 | 4.13 | 22.482 | 0.054 |
| 20 | 27.161 | 34.756 | 4.17 | 22.485 | 0.107 |
| 30 | 27.156 | 34.756 | 4.27 | 22.486 | 0.161 |
| 40 | 27.152 | 34.756 | 4.24 | 22.488 | 0.214 |
| 50 | 27.142 | 34.756 | 4.19 | 22.491 | 0.268 |
| 60 | 24.989 | 34.728 | 3.96 | 23.138 | 0.320 |
| 70 | 22.744 | 34.698 | 3.55 | 23.780 | 0.364 |
| 80 | 22.251 | 34.746 | 3.44 | 23.956 | 0.404 |
| 90 | 17.403 | 34.682 | 3.10 | 25.175 | 0.440 |
| 100 | 15.753 | 34.694 | 2.76 | 25.569 | 0.466 |
| 110 | 14.948 | 34.654 | 2.61 | 25.718 | 0.490 |
| 120 | 13.800 | 34.619 | 2.43 | 25.935 | 0.512 |
| 130 | 12.941 | 34.605 | 2.46 | 26.099 | 0.532 |
| 140 | 12.313 | 34.669 | 2.57 | 26.272 | 0.550 |
| 150 | 12.166 | 34.682 | 2.51 | 26.311 | 0.568 |
| 160 | 11.772 | 34.670 | 2.56 | 26.377 | 0.585 |
| 170 | 11.625 | 34.693 | 2.58 | 26.422 | 0.601 |
| 180 | 11.671 | 34.745 | 2.45 | 26.454 | 0.618 |
| 190 | 11.761 | 34.798 | 2.08 | 26.478 | 0.634 |
| 200 | 11.535 | 34.779 | 2.10 | 26.506 | 0.649 |
| 250 | 11.001 | 34.766 | 1.63 | 26.594 | 0.726 |
| 300 | 10.434 | 34.731 | 1.55 | 26.667 | 0.799 |
| 350 | 9.913 | 34.694 | 1.55 | 26.729 | 0.870 |
| 400 | 9.393 | 34.662 | 1.63 | 26.790 | 0.938 |
| 450 | 8.902 | 34.639 | 1.45 | 26.851 | 1.003 |
| 500 | 8.406 | 34.621 | 1.29 | 26.915 | 1.066 |
| 550 | 7.965 | 34.612 | 0.80 | 26.974 | 1.126 |
| 600 | 7.424 | 34.592 | 0.64 | 27.038 | 1.184 |
| 650 | 6.754 | 34.565 | 0.76 | 27.110 | 1.238 |
| 700 | 6.288 | 34.554 | 0.91 | 27.163 | 1.289 |
| 750 | 5.847 | 34.549 | 0.96 | 27.216 | 1.338 |
| 800 | 5.462 | 34.547 | 1.07 | 27.262 | 1.384 |
| 900 | 4.902 | 34.552 | 1.34 | 27.331 | 1.471 |
| 1000 | 4.492 | 34.555 | 1.57 | 27.380 | 1.553 |
| 1005 | 4.460 | 34.556 | 1.58 | 27.384 | 1.557 |

CAST EP2-88-OC -002 DATE 22 JUN 88 TIME 0930 GMT
LAT 02 00.8N LONG 140 01.8W

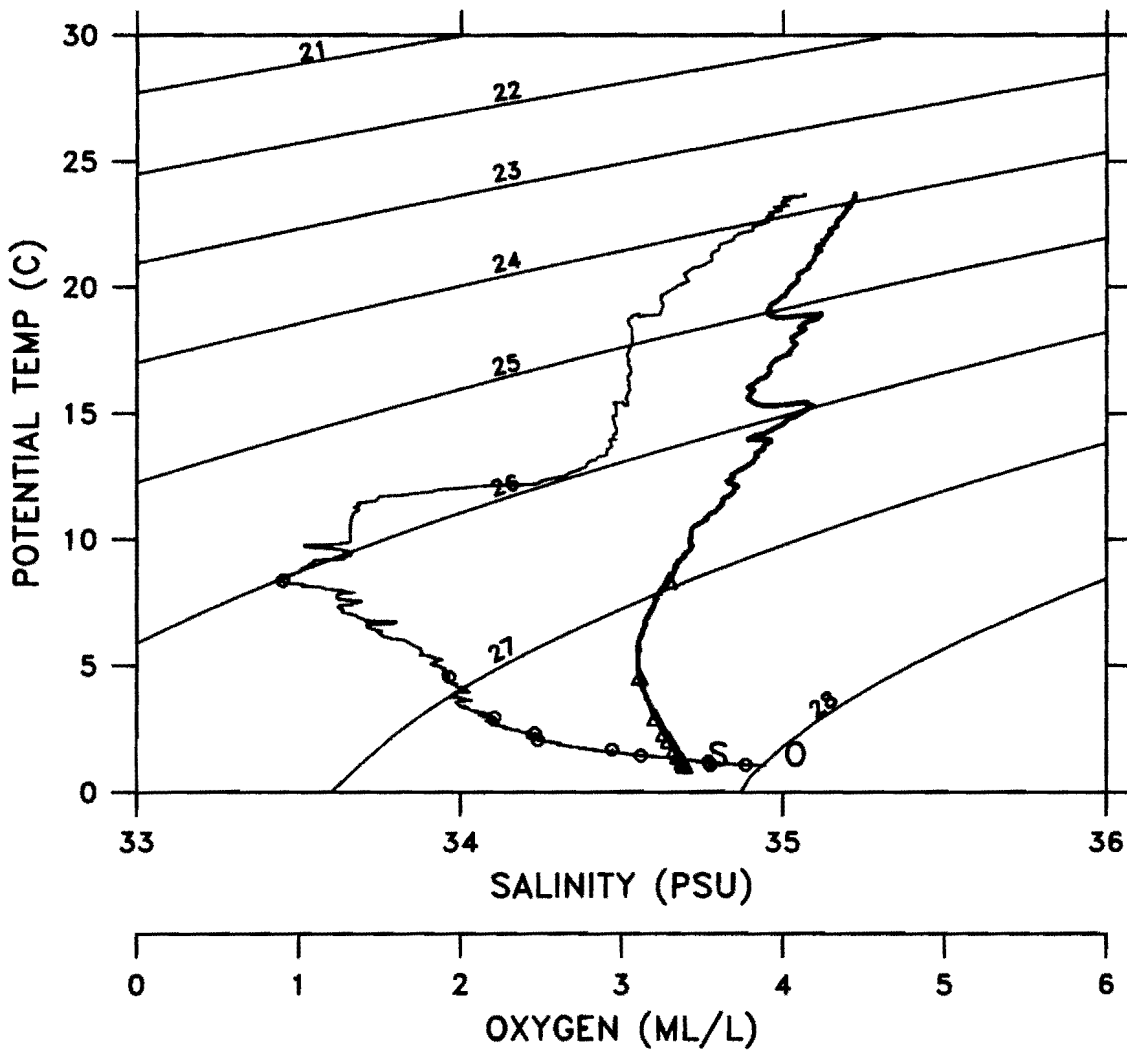


CAST EP2-88-OC -002 DATE 22 JUN 88 TIME 0930 GMT
 LAT 02 00.8N LONG 140 01.8W WEATHER 2 SEA STATE 3
 BAROMETER 13 WIND DIR 105 T SPD 10 KT VISIBILITY 8
 CLOUD X AMOUNT 6 DRY 23.9 WET 22.3 DEPTH 4383 M

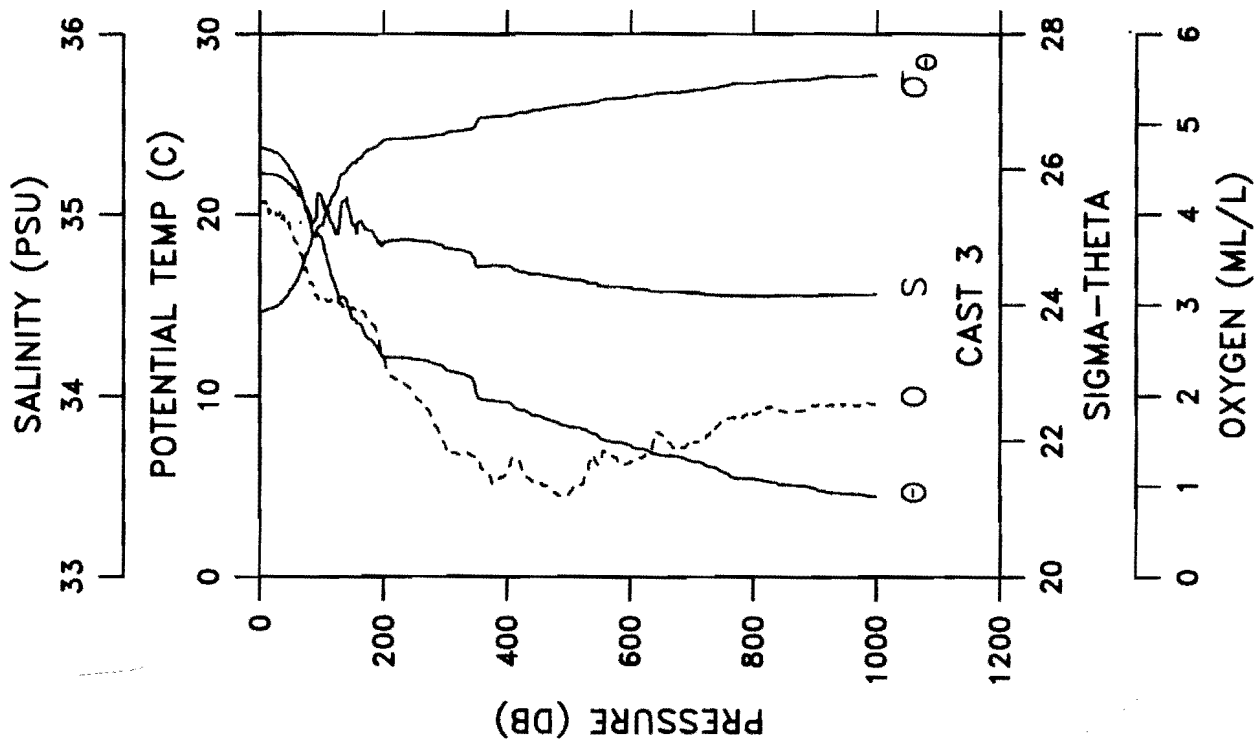


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 24.134 | 35.115 | 4.38 | 23.690 | 0.000 |
| 10 | 24.132 | 35.114 | 4.41 | 23.691 | 0.042 |
| 20 | 24.126 | 35.114 | 4.35 | 23.692 | 0.084 |
| 30 | 24.066 | 35.111 | 4.37 | 23.708 | 0.126 |
| 40 | 24.050 | 35.110 | 4.28 | 23.711 | 0.168 |
| 50 | 24.034 | 35.109 | 4.36 | 23.716 | 0.210 |
| 60 | 24.011 | 35.103 | 4.33 | 23.721 | 0.252 |
| 70 | 23.981 | 35.103 | 4.31 | 23.727 | 0.294 |
| 80 | 23.389 | 35.034 | 4.08 | 23.848 | 0.335 |
| 90 | 21.890 | 34.835 | 3.87 | 24.125 | 0.374 |
| 100 | 17.192 | 34.807 | 2.99 | 25.321 | 0.407 |
| 110 | 15.582 | 34.869 | 2.29 | 25.742 | 0.432 |
| 120 | 14.342 | 34.830 | 2.00 | 25.984 | 0.454 |
| 130 | 13.772 | 34.840 | 1.85 | 26.112 | 0.474 |
| 140 | 13.632 | 34.851 | 1.70 | 26.149 | 0.493 |
| 150 | 13.270 | 34.912 | 1.42 | 26.271 | 0.511 |
| 160 | 13.064 | 34.894 | 1.27 | 26.298 | 0.529 |
| 170 | 12.758 | 34.883 | 1.11 | 26.351 | 0.546 |
| 180 | 12.678 | 34.881 | 1.01 | 26.366 | 0.563 |
| 190 | 12.550 | 34.875 | 0.95 | 26.386 | 0.580 |
| 200 | 12.456 | 34.870 | 0.92 | 26.400 | 0.597 |
| 250 | 11.838 | 34.828 | 0.89 | 26.487 | 0.679 |
| 300 | 11.181 | 34.785 | 1.05 | 26.576 | 0.757 |
| 350 | 10.366 | 34.726 | 1.35 | 26.676 | 0.831 |
| 400 | 9.401 | 34.679 | 1.16 | 26.802 | 0.900 |
| 450 | 8.790 | 34.656 | 1.03 | 26.883 | 0.965 |
| 500 | 8.109 | 34.627 | 1.11 | 26.965 | 1.026 |
| 550 | 7.573 | 34.601 | 1.20 | 27.024 | 1.084 |
| 600 | 7.300 | 34.589 | 1.37 | 27.053 | 1.139 |
| 650 | 6.757 | 34.576 | 1.24 | 27.118 | 1.193 |
| 700 | 6.232 | 34.561 | 1.37 | 27.176 | 1.243 |
| 750 | 5.855 | 34.553 | 1.51 | 27.218 | 1.291 |
| 800 | 5.489 | 34.548 | 1.75 | 27.259 | 1.338 |
| 900 | 4.928 | 34.552 | 1.83 | 27.328 | 1.426 |
| 1000 | 4.438 | 34.560 | 1.83 | 27.390 | 1.507 |
| 1005 | 4.421 | 34.561 | 1.83 | 27.392 | 1.511 |

CAST EP2-88-OC -003 DATE 22 JUN 88 TIME 2118 GMT
LAT 00 01.6S LONG 139 50.5W

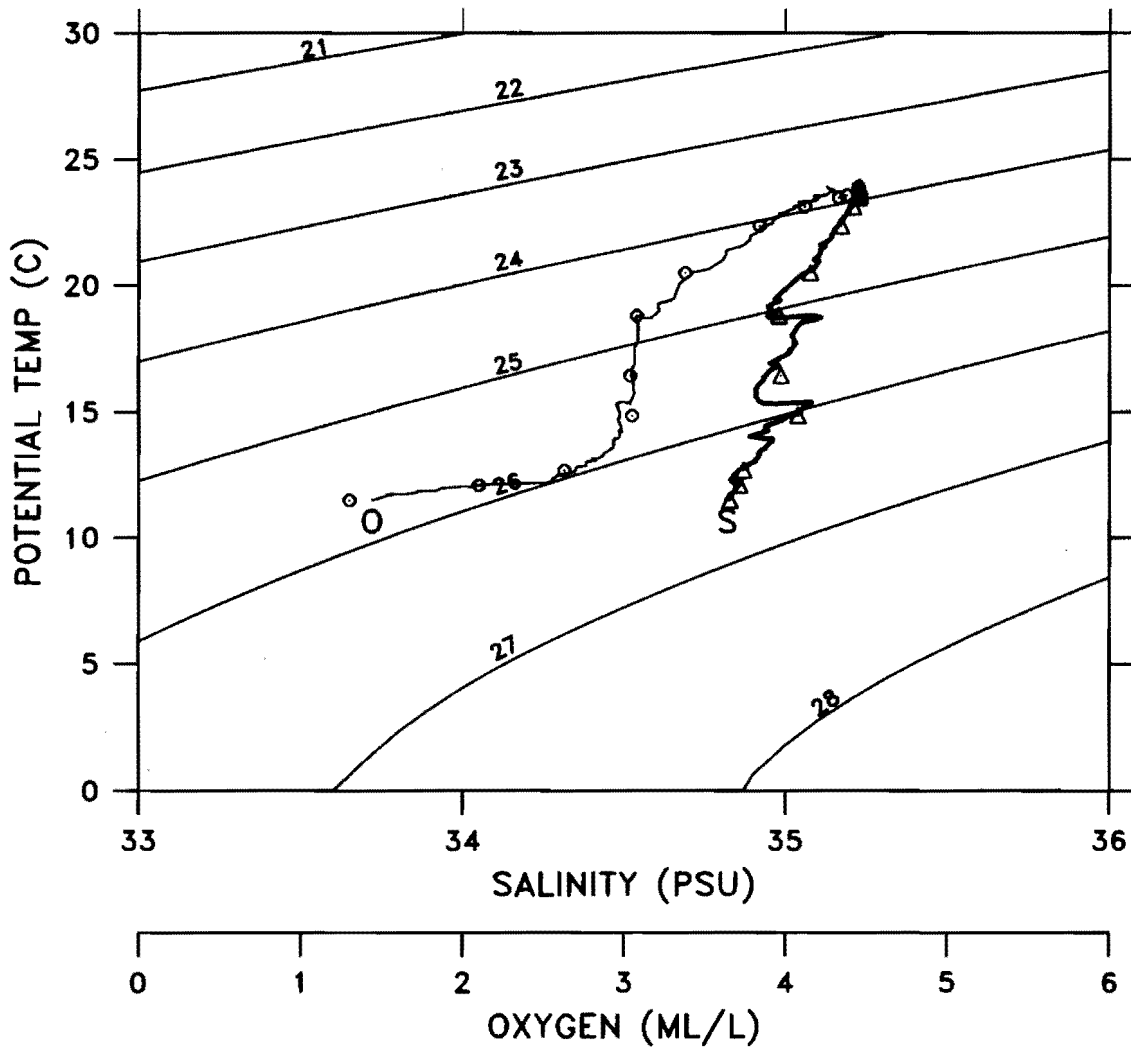


CAST EP2-88-0C -003 DATE 22 JUN 88 TIME 2118 GMT
 LAT 00 01.6S LONG 139 50.5W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 095 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 25.5 WET 24.8 DEPTH 4346 M

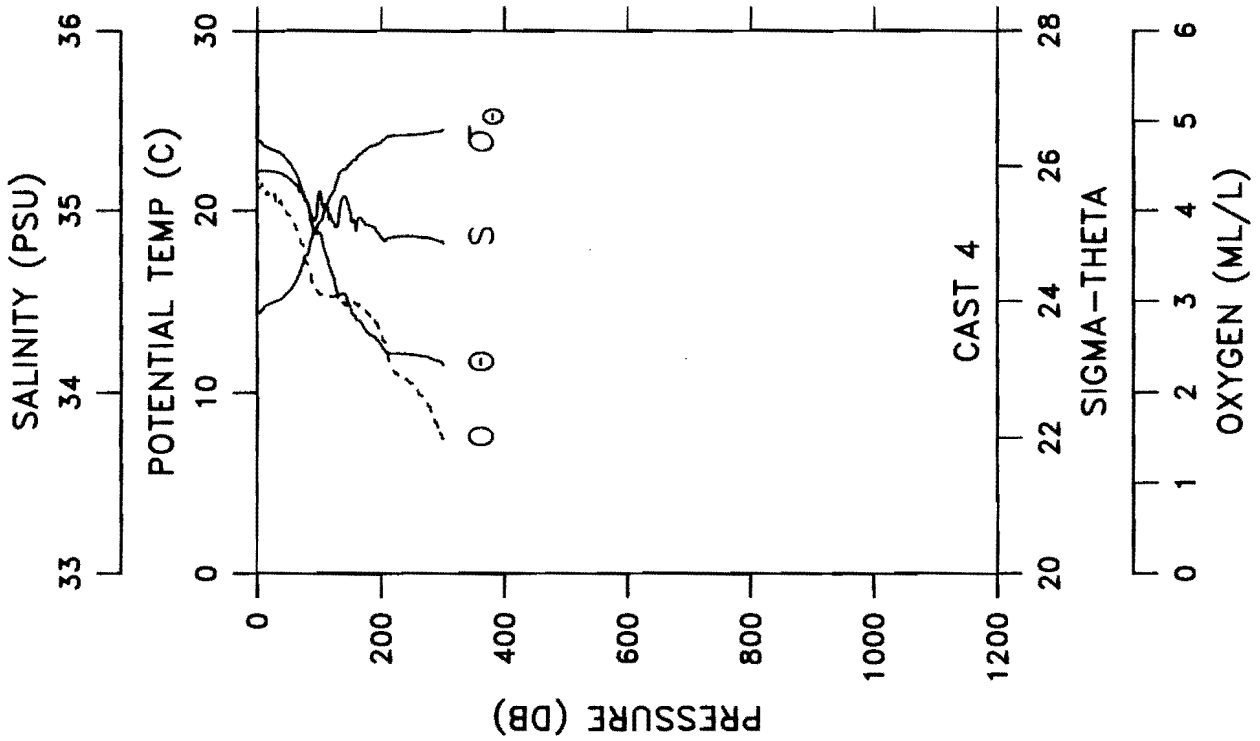


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.695 | 35.223 | 4.13 | 23.902 | 0.000 |
| 10 | 23.613 | 35.221 | 4.14 | 23.925 | 0.040 |
| 20 | 23.524 | 35.220 | 4.05 | 23.950 | 0.080 |
| 30 | 23.372 | 35.210 | 3.99 | 23.986 | 0.119 |
| 40 | 22.958 | 35.192 | 3.91 | 24.093 | 0.158 |
| 50 | 22.409 | 35.164 | 3.82 | 24.228 | 0.195 |
| 60 | 21.858 | 35.122 | 3.67 | 24.351 | 0.232 |
| 70 | 20.809 | 35.078 | 3.48 | 24.606 | 0.267 |
| 80 | 19.653 | 35.004 | 3.24 | 24.857 | 0.299 |
| 90 | 18.773 | 34.980 | 3.11 | 25.065 | 0.329 |
| 100 | 18.681 | 35.092 | 3.04 | 25.174 | 0.358 |
| 110 | 17.323 | 35.021 | 3.04 | 25.454 | 0.385 |
| 120 | 16.225 | 34.915 | 3.05 | 25.632 | 0.409 |
| 130 | 15.365 | 35.016 | 3.01 | 25.904 | 0.432 |
| 140 | 15.307 | 35.092 | 2.96 | 25.976 | 0.453 |
| 150 | 14.209 | 34.939 | 2.96 | 26.096 | 0.473 |
| 160 | 13.995 | 34.959 | 2.93 | 26.157 | 0.492 |
| 170 | 13.370 | 34.916 | 2.91 | 26.254 | 0.511 |
| 180 | 13.102 | 34.907 | 2.80 | 26.301 | 0.529 |
| 190 | 12.646 | 34.851 | 2.67 | 26.348 | 0.546 |
| 200 | 12.188 | 34.845 | 2.44 | 26.433 | 0.563 |
| 250 | 12.040 | 34.853 | 2.02 | 26.468 | 0.644 |
| 300 | 11.499 | 34.815 | 1.45 | 26.540 | 0.724 |
| 350 | 10.197 | 34.715 | 1.31 | 26.696 | 0.801 |
| 400 | 9.659 | 34.715 | 1.17 | 26.788 | 0.868 |
| 450 | 8.910 | 34.670 | 1.04 | 26.875 | 0.933 |
| 500 | 8.299 | 34.642 | 0.91 | 26.948 | 0.994 |
| 550 | 7.671 | 34.612 | 1.24 | 27.018 | 1.053 |
| 600 | 7.258 | 34.596 | 1.26 | 27.065 | 1.108 |
| 650 | 6.677 | 34.571 | 1.58 | 27.125 | 1.161 |
| 700 | 6.378 | 34.565 | 1.50 | 27.160 | 1.213 |
| 750 | 5.779 | 34.552 | 1.71 | 27.226 | 1.261 |
| 800 | 5.405 | 34.550 | 1.81 | 27.271 | 1.307 |
| 900 | 4.883 | 34.551 | 1.89 | 27.333 | 1.393 |
| 1000 | 4.443 | 34.558 | 1.90 | 27.388 | 1.474 |
| 1500 | 2.911 | 34.605 | 2.19 | 27.578 | 1.814 |
| 2000 | 2.047 | 34.647 | 2.50 | 27.685 | 2.088 |
| 2500 | 1.683 | 34.665 | 2.82 | 27.728 | 2.331 |
| 3000 | 1.442 | 34.675 | 3.15 | 27.754 | 2.561 |
| 3500 | 1.210 | 34.689 | 3.49 | 27.781 | 2.785 |
| 4000 | 1.087 | 34.695 | 3.78 | 27.794 | 2.999 |
| 4403 | 1.062 | 34.697 | 3.88 | 27.798 | 3.174 |

CAST EP2-88-OC -004 DATE 22 JUN 88 TIME 2346 GMT
LAT 00 01.5S LONG 139 49.2W

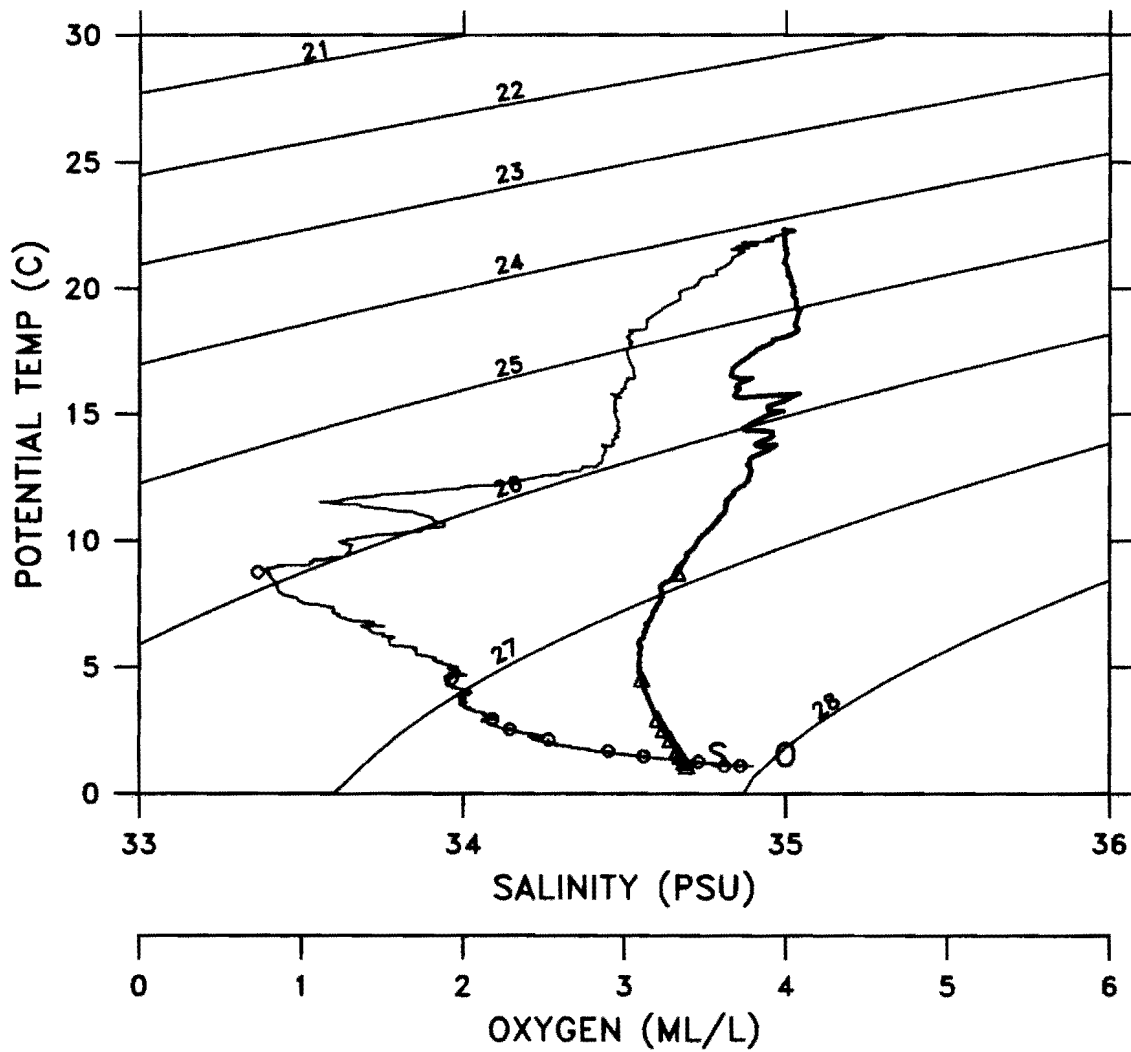


CAST EP2-88-0C -004 DATE 22 JUN 88 TIME 2346 GMT
 LAT 00 01.5S LONG 139 49.2W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 080 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.9 WET 22.8 DEPTH 4322 M

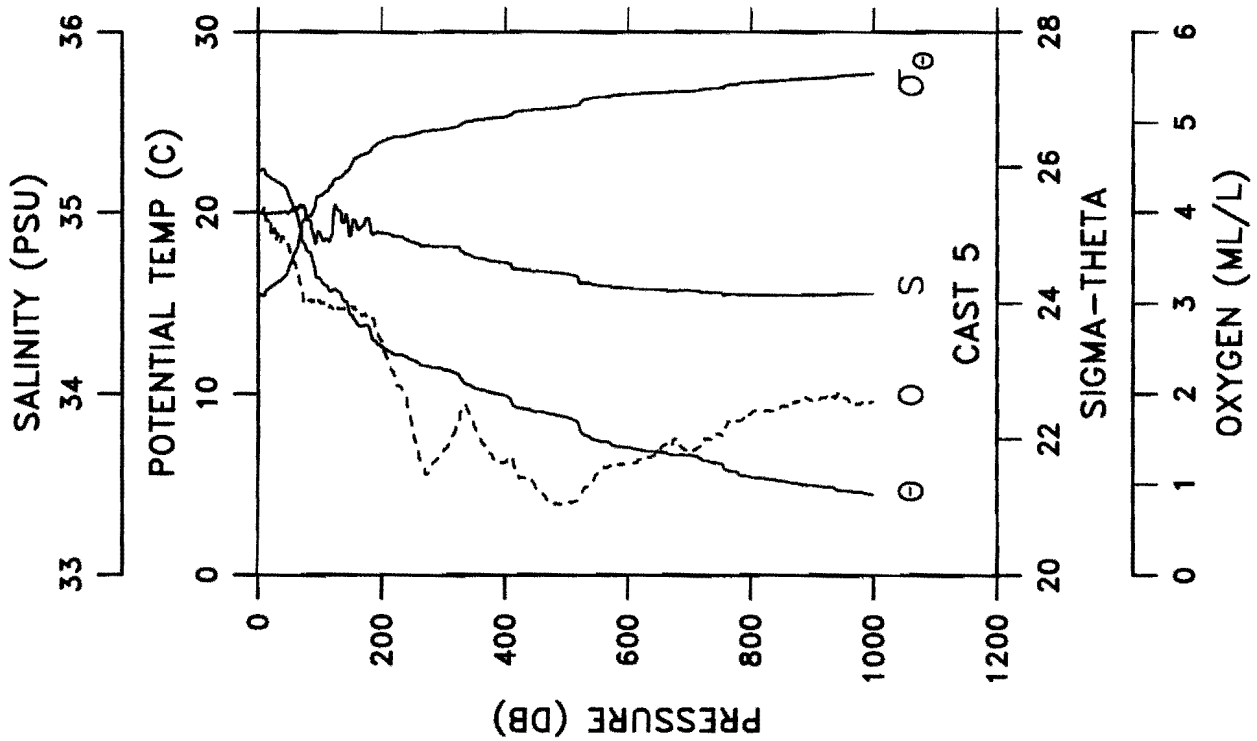


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.925 | 35.224 | 4.25 | 23.835 | 0.000 |
| 10 | 23.698 | 35.224 | 4.27 | 23.902 | 0.040 |
| 20 | 23.495 | 35.222 | 4.18 | 23.960 | 0.080 |
| 30 | 23.337 | 35.216 | 4.09 | 24.001 | 0.119 |
| 40 | 23.163 | 35.207 | 4.05 | 24.045 | 0.158 |
| 50 | 22.754 | 35.182 | 3.95 | 24.144 | 0.197 |
| 60 | 22.279 | 35.151 | 3.85 | 24.256 | 0.234 |
| 70 | 21.426 | 35.106 | 3.63 | 24.460 | 0.270 |
| 80 | 20.468 | 35.056 | 3.42 | 24.681 | 0.304 |
| 90 | 18.999 | 34.960 | 3.22 | 24.992 | 0.335 |
| 100 | 18.769 | 35.100 | 3.09 | 25.158 | 0.364 |
| 110 | 17.707 | 35.034 | 3.08 | 25.371 | 0.392 |
| 120 | 16.606 | 34.949 | 3.05 | 25.569 | 0.417 |
| 130 | 15.436 | 34.916 | 3.04 | 25.812 | 0.441 |
| 140 | 15.397 | 35.080 | 2.98 | 25.946 | 0.462 |
| 150 | 14.732 | 34.997 | 2.96 | 26.029 | 0.483 |
| 160 | 14.037 | 34.888 | 2.98 | 26.093 | 0.502 |
| 170 | 13.727 | 34.949 | 2.94 | 26.205 | 0.521 |
| 180 | 13.253 | 34.917 | 2.87 | 26.278 | 0.539 |
| 190 | 13.050 | 34.904 | 2.79 | 26.309 | 0.557 |
| 200 | 12.624 | 34.853 | 2.69 | 26.354 | 0.575 |
| 250 | 12.094 | 34.857 | 2.11 | 26.460 | 0.657 |
| 300 | 11.509 | 34.817 | 1.45 | 26.540 | 0.737 |
| 301 | 11.510 | 34.817 | 1.44 | 26.540 | 0.739 |

CAST EP2-88-OC -005 DATE 23 JUN 88 TIME 2050 GMT
LAT 00 01.5N LONG 134 58.2W



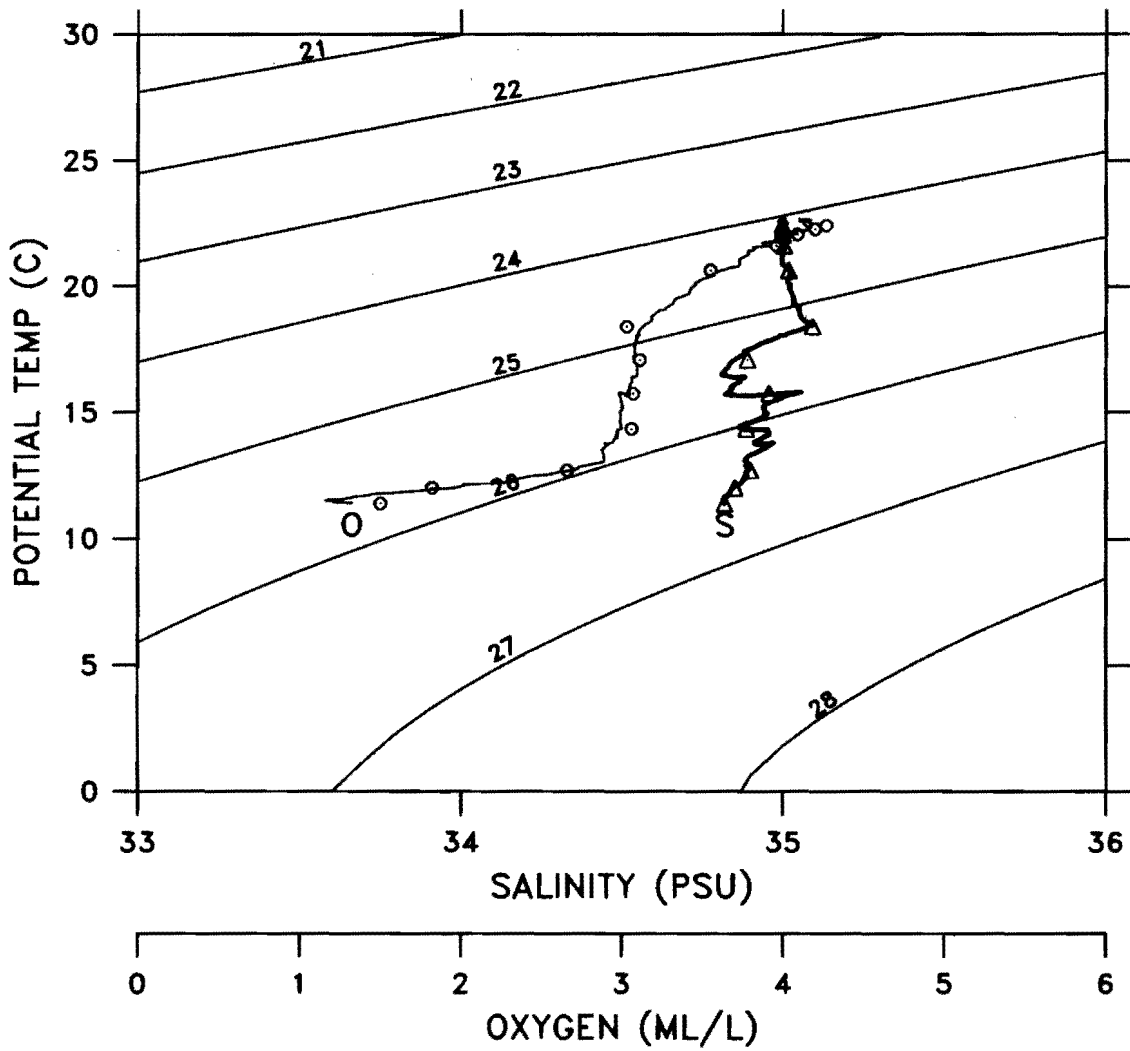
CAST EP2-88-OC-005 DATE 23 JUN 88 TIME 2050 GMT
 LAT 00 01.5N LONG 134 58.2W WEATHER 0 SEA STATE 3
 BAROMETER 13 WIND DIR 095 T SPD 09 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 23.7 WET 22.8 DEPTH 4380 M



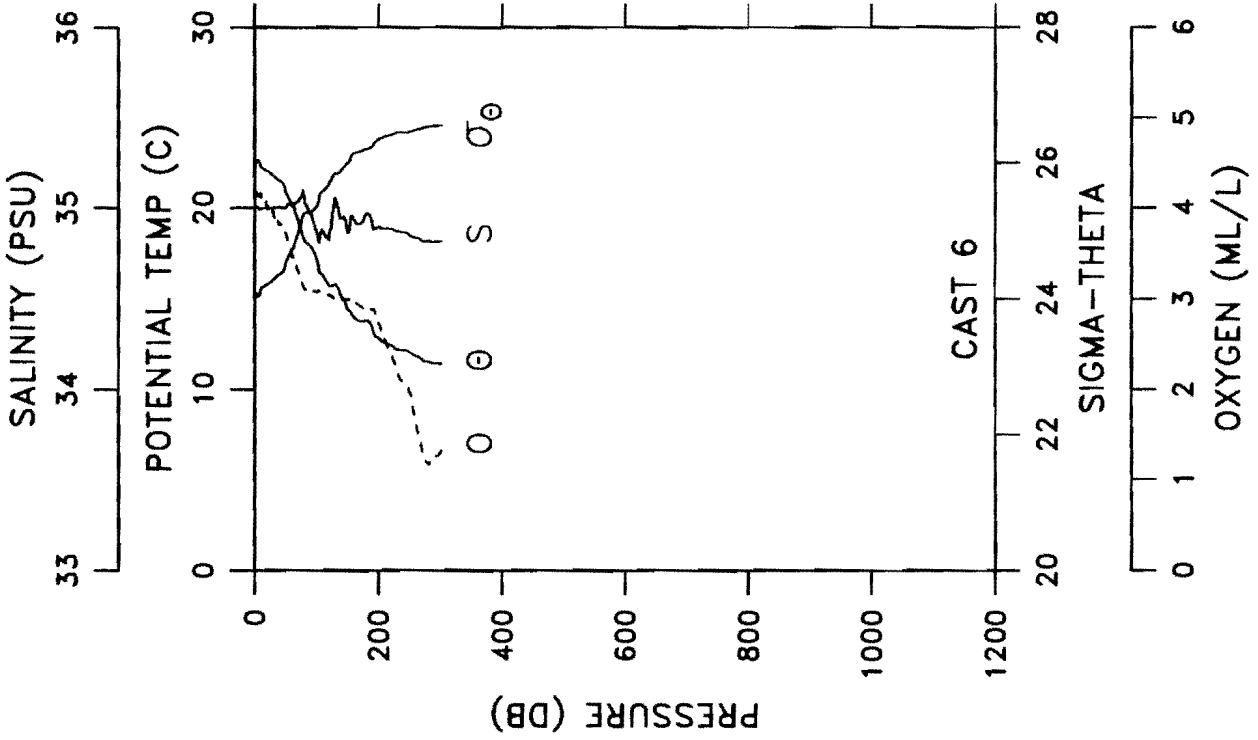
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.320 | 34.996 | 3.99 | 24.126 | 0.000 |
| 10 | 22.357 | 34.993 | 4.05 | 24.113 | 0.038 |
| 20 | 21.916 | 34.996 | 3.92 | 24.240 | 0.075 |
| 30 | 21.672 | 34.998 | 3.74 | 24.309 | 0.112 |
| 40 | 21.476 | 35.001 | 3.74 | 24.366 | 0.148 |
| 50 | 20.910 | 35.003 | 3.62 | 24.522 | 0.183 |
| 60 | 20.087 | 35.024 | 3.43 | 24.759 | 0.216 |
| 70 | 18.770 | 35.033 | 3.14 | 25.106 | 0.246 |
| 80 | 17.866 | 34.958 | 3.04 | 25.274 | 0.274 |
| 90 | 17.159 | 34.868 | 3.03 | 25.376 | 0.301 |
| 100 | 16.374 | 34.887 | 3.03 | 25.575 | 0.326 |
| 110 | 16.012 | 34.858 | 3.00 | 25.636 | 0.350 |
| 120 | 15.712 | 34.922 | 2.95 | 25.754 | 0.373 |
| 130 | 15.649 | 35.009 | 2.94 | 25.835 | 0.395 |
| 140 | 15.127 | 34.951 | 2.94 | 25.907 | 0.417 |
| 150 | 14.359 | 34.882 | 2.96 | 26.020 | 0.438 |
| 160 | 13.883 | 34.913 | 2.92 | 26.145 | 0.457 |
| 170 | 13.740 | 34.926 | 2.87 | 26.185 | 0.476 |
| 180 | 13.615 | 34.948 | 2.88 | 26.228 | 0.495 |
| 190 | 12.914 | 34.885 | 2.74 | 26.322 | 0.512 |
| 200 | 12.625 | 34.892 | 2.60 | 26.384 | 0.529 |
| 250 | 11.867 | 34.837 | 1.64 | 26.488 | 0.611 |
| 300 | 11.341 | 34.811 | 1.37 | 26.566 | 0.689 |
| 350 | 10.326 | 34.753 | 1.65 | 26.703 | 0.763 |
| 400 | 9.922 | 34.726 | 1.24 | 26.752 | 0.833 |
| 450 | 9.037 | 34.679 | 0.98 | 26.861 | 0.898 |
| 500 | 8.736 | 34.663 | 0.79 | 26.897 | 0.962 |
| 550 | 7.450 | 34.601 | 1.11 | 27.041 | 1.020 |
| 600 | 7.056 | 34.587 | 1.22 | 27.086 | 1.074 |
| 650 | 6.818 | 34.576 | 1.37 | 27.110 | 1.127 |
| 700 | 6.638 | 34.573 | 1.38 | 27.132 | 1.179 |
| 750 | 6.160 | 34.559 | 1.56 | 27.184 | 1.230 |
| 800 | 5.428 | 34.546 | 1.78 | 27.265 | 1.276 |
| 900 | 4.965 | 34.548 | 1.93 | 27.321 | 1.364 |
| 1000 | 4.434 | 34.557 | 1.91 | 27.387 | 1.446 |
| 1500 | 2.920 | 34.604 | 2.13 | 27.577 | 1.788 |
| 2000 | 2.119 | 34.641 | 2.46 | 27.675 | 2.067 |
| 2500 | 1.649 | 34.665 | 2.85 | 27.730 | 2.313 |
| 3000 | 1.467 | 34.673 | 3.12 | 27.750 | 2.545 |
| 3500 | 1.232 | 34.685 | 3.46 | 27.776 | 2.770 |
| 4000 | 1.092 | 34.693 | 3.74 | 27.792 | 2.987 |
| 4388 | 1.083 | 34.693 | 3.80 | 27.794 | 3.157 |

CAST EP2-88-OC -006 DATE 23 JUN 88 TIME 2258 GMT

LAT 00 01.8N LONG 134 58.8W

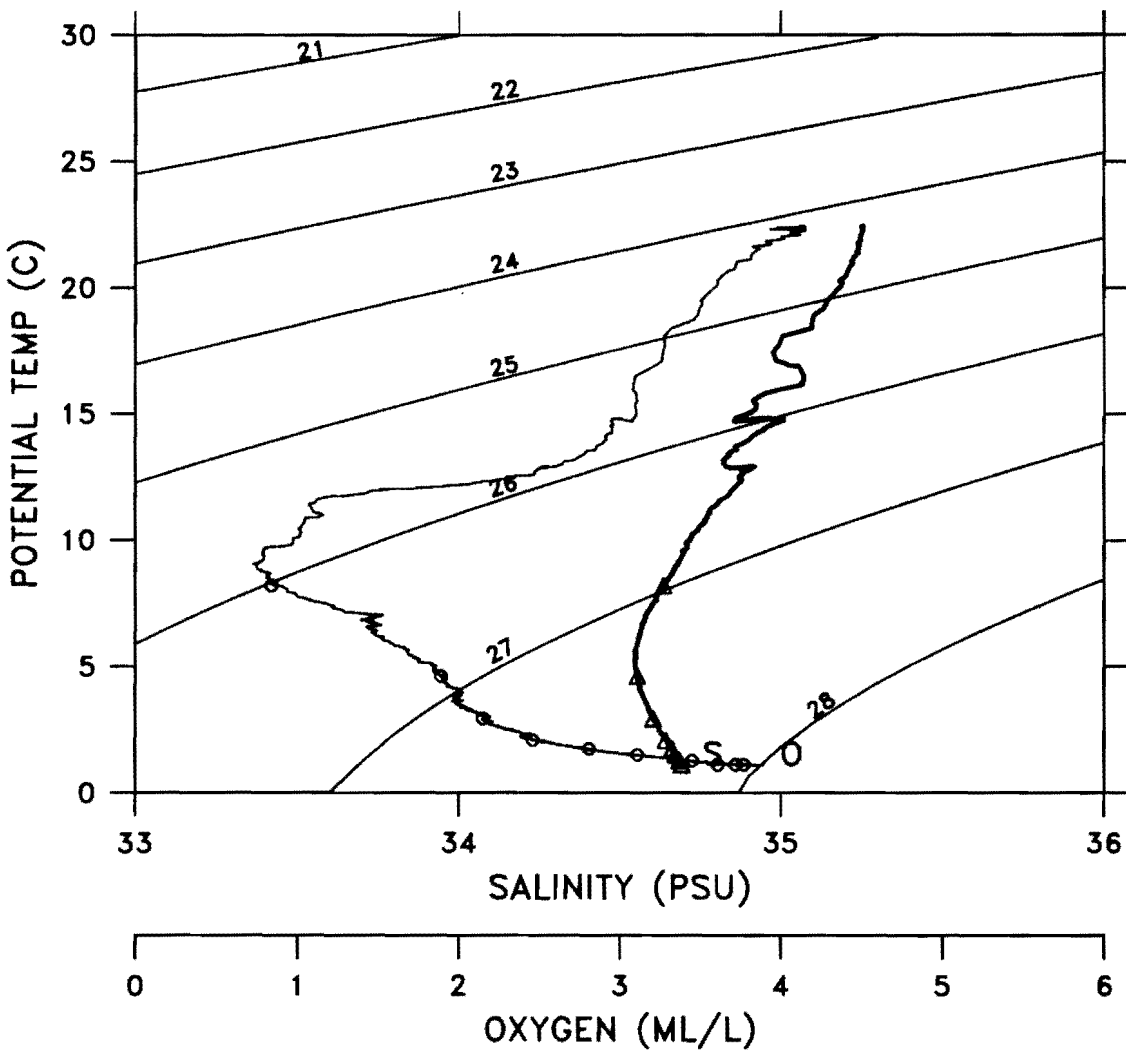


CAST EP2-88-OC -006 DATE 23 JUN 88 TIME 2258 GMT
 LAT 00 01.8N LONG 134 58.8W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 090 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 23.8 WET 22.6 DEPTH 4380 M

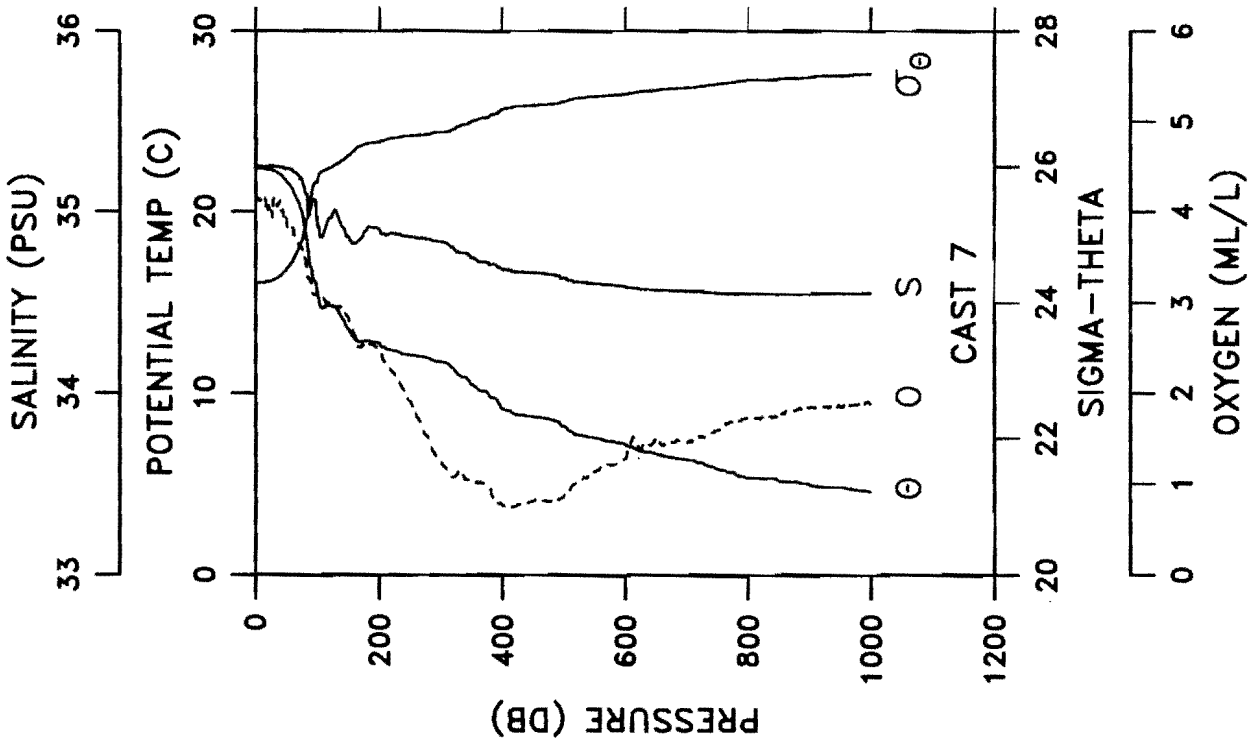


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.505 | 35.010 | 4.17 | 24.085 | 0.000 |
| 10 | 22.238 | 34.996 | 4.17 | 24.150 | 0.038 |
| 20 | 22.044 | 35.001 | 4.03 | 24.208 | 0.076 |
| 30 | 21.791 | 35.003 | 3.97 | 24.280 | 0.113 |
| 40 | 21.514 | 35.003 | 3.83 | 24.357 | 0.149 |
| 50 | 20.873 | 34.997 | 3.73 | 24.527 | 0.184 |
| 60 | 20.233 | 35.013 | 3.49 | 24.711 | 0.217 |
| 70 | 19.325 | 35.033 | 3.32 | 24.964 | 0.248 |
| 80 | 18.244 | 35.049 | 3.11 | 25.251 | 0.277 |
| 90 | 17.901 | 34.973 | 3.09 | 25.277 | 0.304 |
| 100 | 17.220 | 34.869 | 3.08 | 25.362 | 0.331 |
| 110 | 16.323 | 34.872 | 3.06 | 25.576 | 0.356 |
| 120 | 15.701 | 34.821 | 3.05 | 25.679 | 0.380 |
| 130 | 15.793 | 35.054 | 2.99 | 25.838 | 0.403 |
| 140 | 15.153 | 34.940 | 3.01 | 25.893 | 0.425 |
| 150 | 14.411 | 34.863 | 3.00 | 25.995 | 0.446 |
| 160 | 14.013 | 34.938 | 2.97 | 26.137 | 0.465 |
| 170 | 13.763 | 34.911 | 2.92 | 26.169 | 0.484 |
| 180 | 13.781 | 34.966 | 2.89 | 26.207 | 0.503 |
| 190 | 13.393 | 34.915 | 2.88 | 26.248 | 0.521 |
| 200 | 12.815 | 34.897 | 2.74 | 26.351 | 0.539 |
| 250 | 12.050 | 34.848 | 1.99 | 26.462 | 0.622 |
| 300 | 11.431 | 34.818 | 1.30 | 26.555 | 0.701 |
| 302 | 11.420 | 34.818 | 1.32 | 26.557 | 0.704 |

CAST EP2-88-OC -007 DATE 24 JUN 88 TIME 2048 GMT
LAT 00 01.5S LONG 129 59.7W

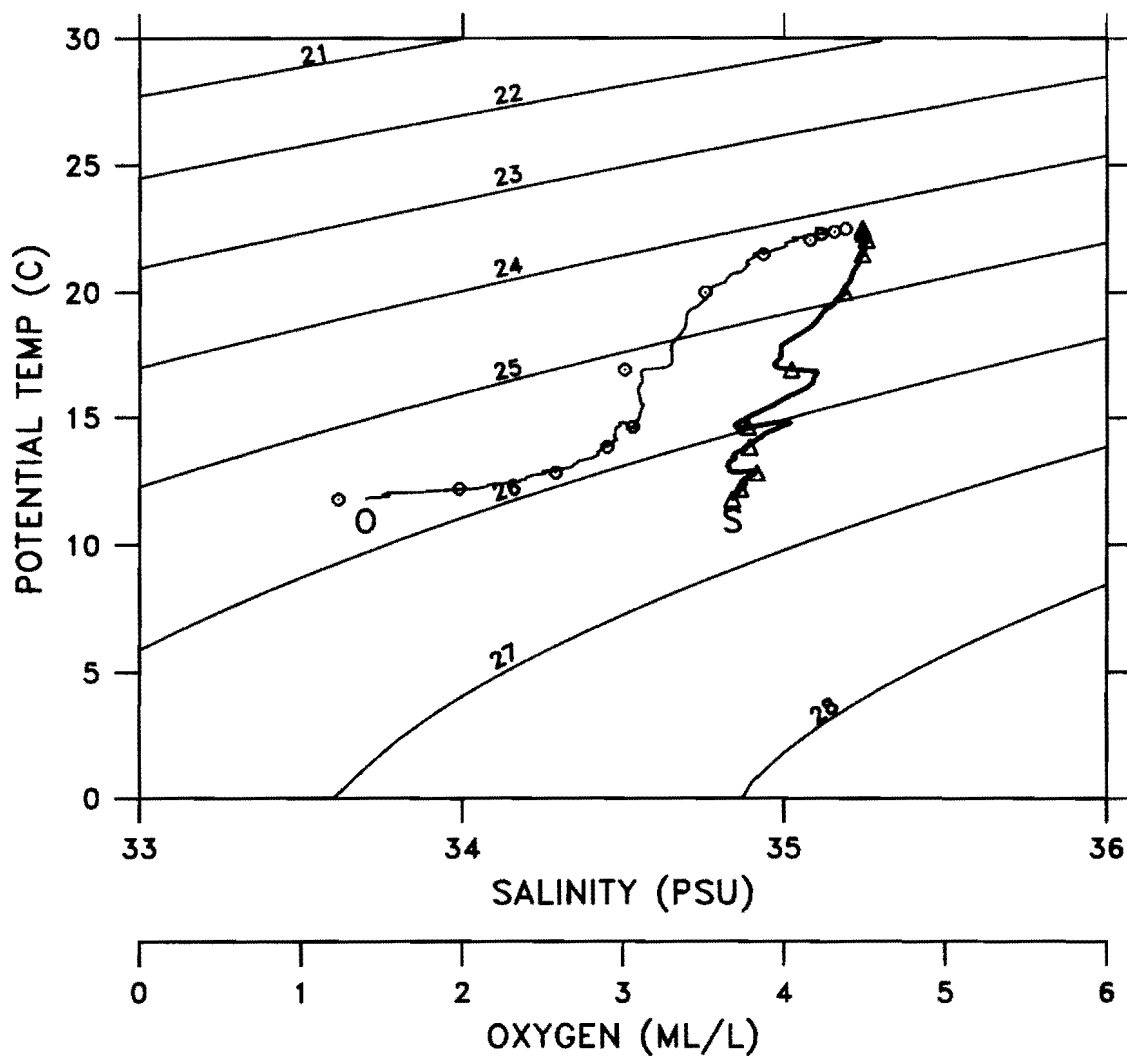


CAST EP2-88-OC -007 DATE 24 JUN 88 TIME 2048 GMT
 LAT 00 01.55 LONG 129 59.7W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 110 T SPD 15 KT VISIBILITY 8
 CLOUD 6 AMOUNT 1 DRY 24.0 WET 21.8 DEPTH 4493 M

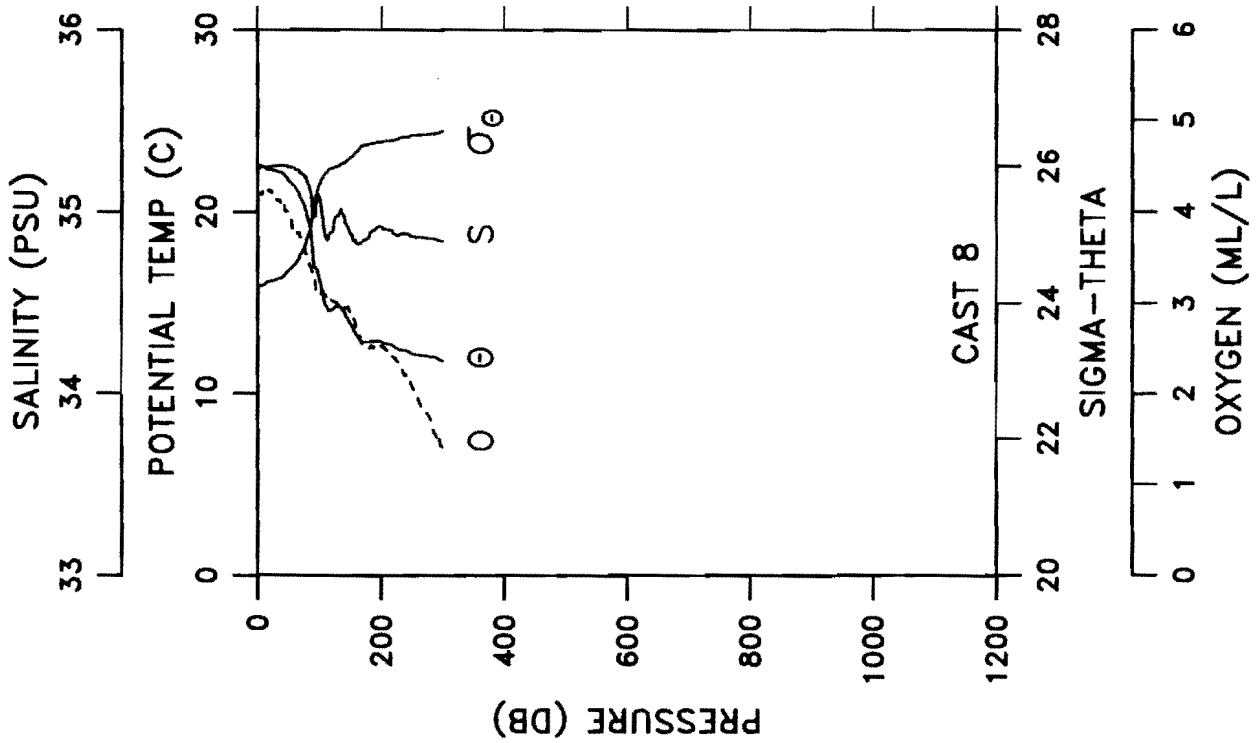


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.437 | 35.254 | 4.14 | 24.289 | 0.000 |
| 10 | 22.413 | 35.254 | 4.10 | 24.296 | 0.036 |
| 20 | 22.365 | 35.253 | 4.04 | 24.309 | 0.072 |
| 30 | 22.251 | 35.255 | 4.13 | 24.343 | 0.109 |
| 40 | 22.056 | 35.247 | 4.06 | 24.391 | 0.144 |
| 50 | 21.668 | 35.243 | 3.88 | 24.496 | 0.179 |
| 60 | 21.209 | 35.225 | 3.81 | 24.610 | 0.213 |
| 70 | 20.491 | 35.204 | 3.64 | 24.788 | 0.246 |
| 80 | 18.925 | 35.102 | 3.48 | 25.119 | 0.276 |
| 90 | 16.909 | 35.056 | 3.21 | 25.580 | 0.303 |
| 100 | 15.529 | 34.912 | 3.11 | 25.788 | 0.325 |
| 110 | 14.727 | 34.862 | 3.05 | 25.941 | 0.347 |
| 120 | 14.828 | 34.964 | 3.01 | 25.983 | 0.367 |
| 130 | 14.714 | 35.005 | 2.94 | 26.039 | 0.388 |
| 140 | 14.145 | 34.916 | 2.92 | 26.092 | 0.407 |
| 150 | 13.549 | 34.855 | 2.85 | 26.170 | 0.427 |
| 160 | 13.039 | 34.820 | 2.65 | 26.247 | 0.445 |
| 170 | 12.871 | 34.851 | 2.50 | 26.304 | 0.463 |
| 180 | 12.906 | 34.905 | 2.55 | 26.339 | 0.480 |
| 190 | 12.847 | 34.909 | 2.54 | 26.354 | 0.497 |
| 200 | 12.772 | 34.901 | 2.49 | 26.363 | 0.515 |
| 250 | 12.126 | 34.860 | 1.91 | 26.457 | 0.597 |
| 300 | 11.740 | 34.833 | 1.24 | 26.510 | 0.678 |
| 350 | 10.493 | 34.745 | 1.02 | 26.668 | 0.755 |
| 400 | 9.149 | 34.681 | 0.78 | 26.845 | 0.824 |
| 450 | 8.703 | 34.664 | 0.82 | 26.903 | 0.866 |
| 500 | 8.206 | 34.639 | 0.87 | 26.959 | 0.947 |
| 550 | 7.544 | 34.606 | 1.13 | 27.032 | 1.004 |
| 600 | 7.209 | 34.589 | 1.28 | 27.066 | 1.059 |
| 650 | 6.670 | 34.571 | 1.51 | 27.126 | 1.112 |
| 700 | 6.340 | 34.565 | 1.46 | 27.165 | 1.162 |
| 750 | 5.833 | 34.554 | 1.60 | 27.221 | 1.211 |
| 800 | 5.350 | 34.550 | 1.74 | 27.278 | 1.257 |
| 900 | 4.979 | 34.547 | 1.85 | 27.319 | 1.345 |
| 1000 | 4.572 | 34.554 | 1.89 | 27.370 | 1.428 |
| 1500 | 2.907 | 34.606 | 2.17 | 27.579 | 1.777 |
| 2000 | 2.067 | 34.644 | 2.46 | 27.681 | 2.055 |
| 2500 | 1.715 | 34.661 | 2.78 | 27.722 | 2.301 |
| 3000 | 1.483 | 34.672 | 3.09 | 27.748 | 2.534 |
| 3500 | 1.260 | 34.685 | 3.42 | 27.774 | 2.761 |
| 4000 | 1.106 | 34.693 | 3.74 | 27.792 | 2.978 |
| 4500 | 1.093 | 34.694 | 3.86 | 27.793 | 3.200 |
| 4509 | 1.093 | 34.694 | 3.87 | 27.793 | 3.204 |

CAST EP2-88-OC -008 DATE 24 JUN 88 TIME 2311 GMT
LAT 00 01.9S LONG 130 01.6W

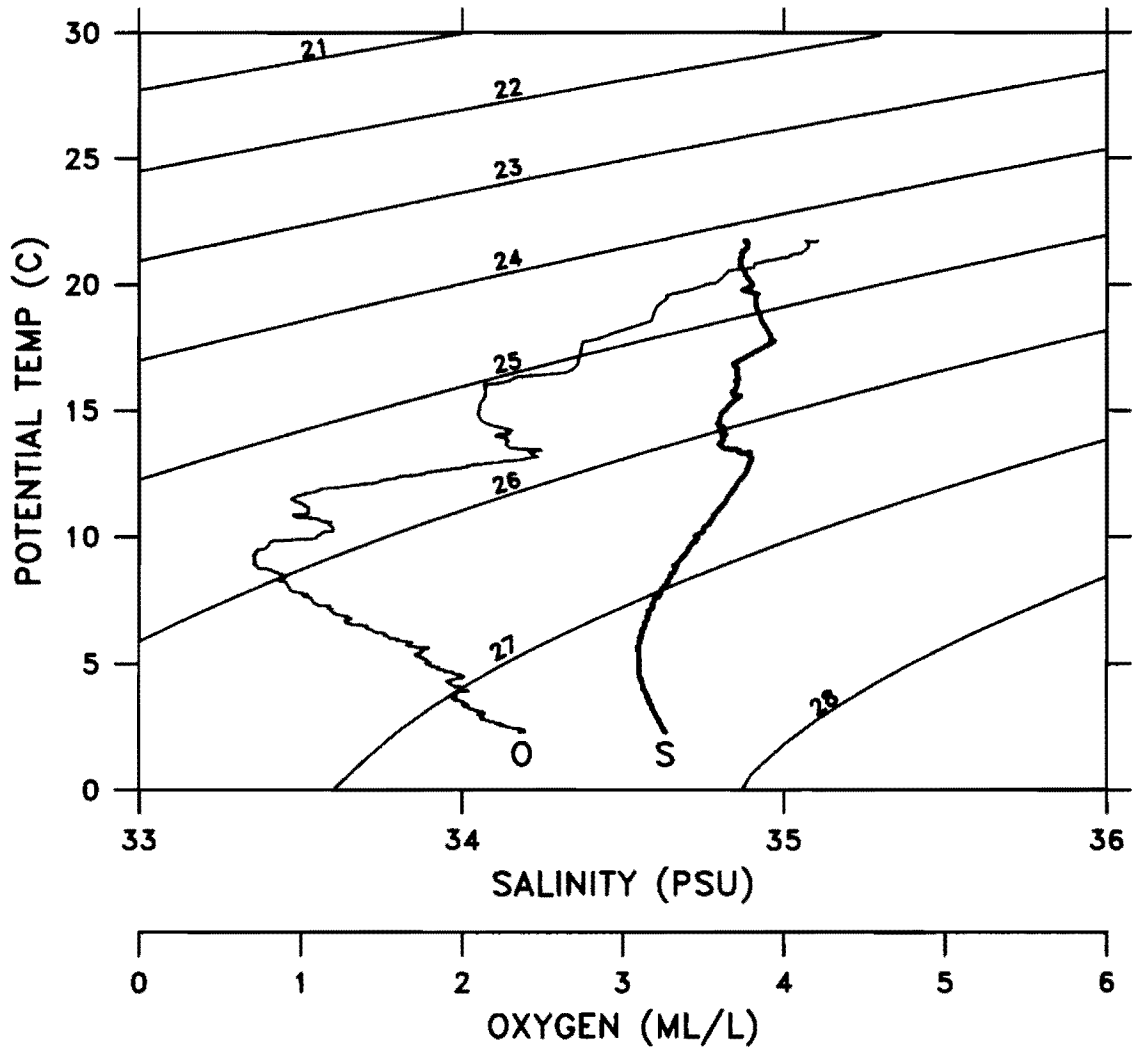


CAST EP2-88-0C -008 DATE 24 JUN 88 TIME 2311 GMT
 LAT 00 01.9S LONG 130 01.6W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 110 T SPD 14 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 22.9 WET 21.3 DEPTH 4527 M

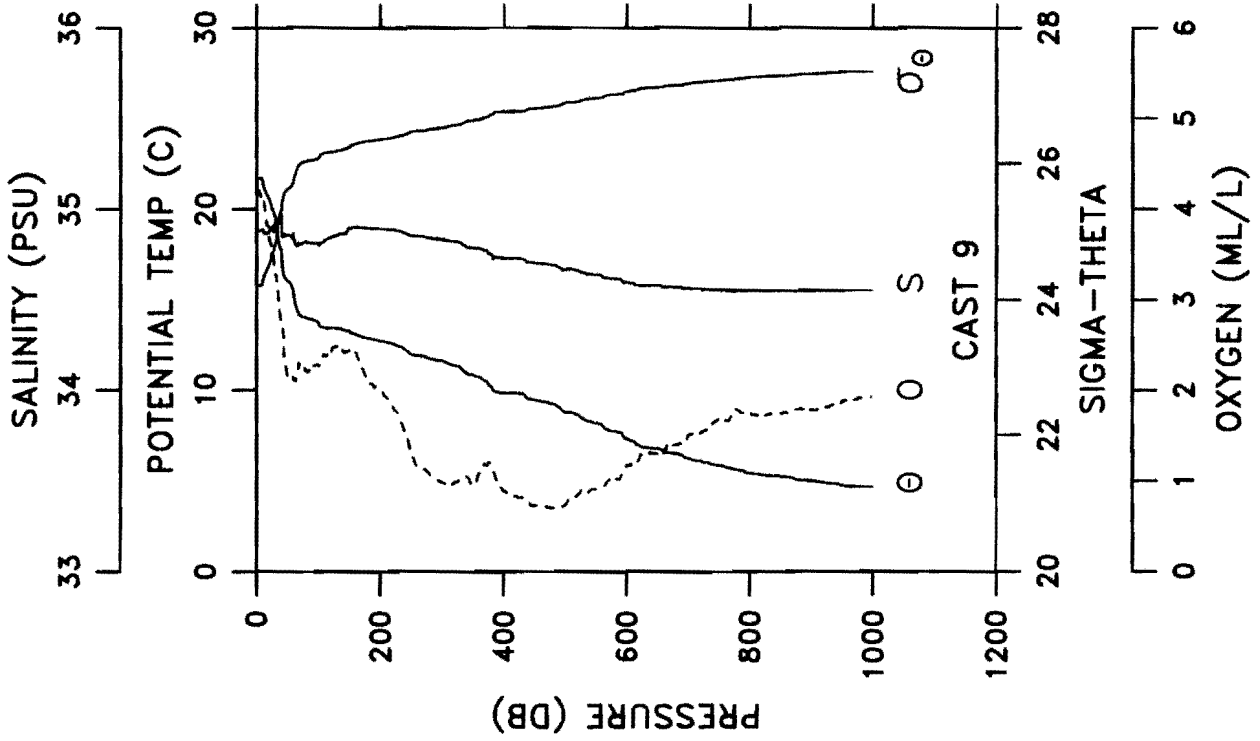


| PRES (DB) | POT TEMP (C) | SAL (FSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 22.553 | 35.237 | 4.19 | 24.243 | 0.000 |
| 10 | 22.470 | 35.246 | 4.26 | 24.273 | 0.037 |
| 20 | 22.334 | 35.250 | 4.24 | 24.315 | 0.073 |
| 30 | 22.253 | 35.254 | 4.14 | 24.341 | 0.109 |
| 40 | 22.140 | 35.257 | 4.07 | 24.375 | 0.145 |
| 50 | 21.745 | 35.249 | 3.98 | 24.480 | 0.180 |
| 60 | 21.416 | 35.240 | 3.82 | 24.564 | 0.214 |
| 70 | 20.754 | 35.216 | 3.69 | 24.726 | 0.247 |
| 80 | 19.738 | 35.163 | 3.52 | 24.956 | 0.279 |
| 90 | 17.371 | 34.988 | 3.30 | 25.418 | 0.307 |
| 100 | 16.297 | 35.081 | 3.11 | 25.743 | 0.331 |
| 110 | 14.875 | 34.868 | 3.08 | 25.899 | 0.353 |
| 120 | 14.626 | 34.890 | 3.03 | 25.969 | 0.374 |
| 130 | 14.798 | 34.981 | 2.99 | 26.002 | 0.395 |
| 140 | 14.575 | 34.984 | 2.95 | 26.053 | 0.415 |
| 150 | 13.871 | 34.884 | 2.88 | 26.125 | 0.434 |
| 160 | 13.256 | 34.830 | 2.72 | 26.210 | 0.453 |
| 170 | 12.845 | 34.842 | 2.54 | 26.302 | 0.471 |
| 180 | 12.842 | 34.860 | 2.50 | 26.317 | 0.489 |
| 190 | 12.887 | 34.903 | 2.52 | 26.341 | 0.506 |
| 200 | 12.873 | 34.920 | 2.53 | 26.357 | 0.523 |
| 250 | 12.194 | 34.867 | 2.08 | 26.449 | 0.607 |
| 300 | 11.793 | 34.841 | 1.40 | 26.506 | 0.689 |
| 300 | 11.793 | 34.841 | 1.40 | 26.506 | 0.689 |

CAST EP2-88-OC -009 DATE 26 JUN 88 TIME 0120 GMT
LAT 00 09.1N LONG 124 24.9W

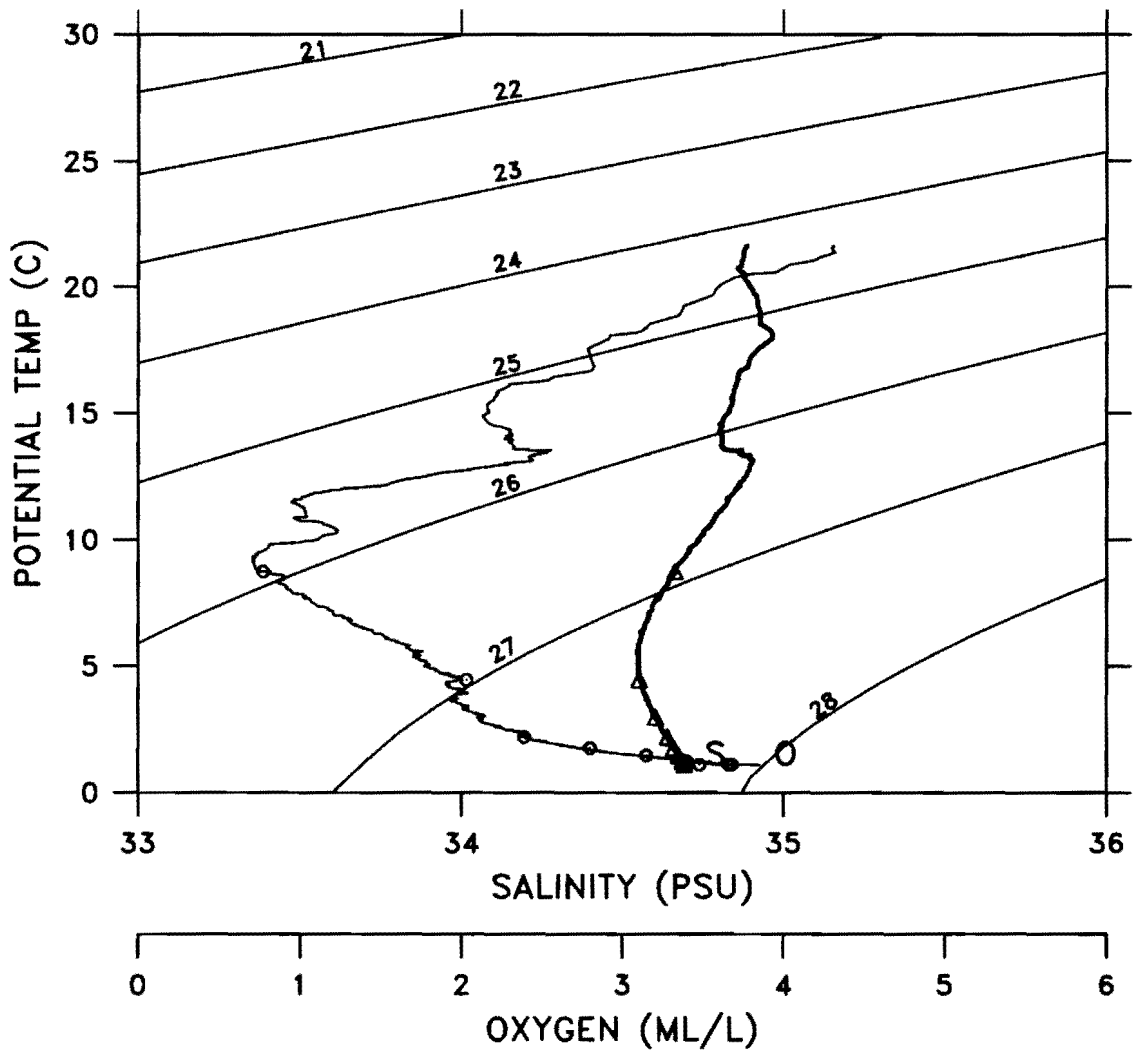


CAST EP2-88-0C -009 DATE 26 JUN 88 TIME 0120 GMT
 LAT 00 09.1N LONG 124 24.9W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 100 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 22.3 WET 21.1 DEPTH 4567 M

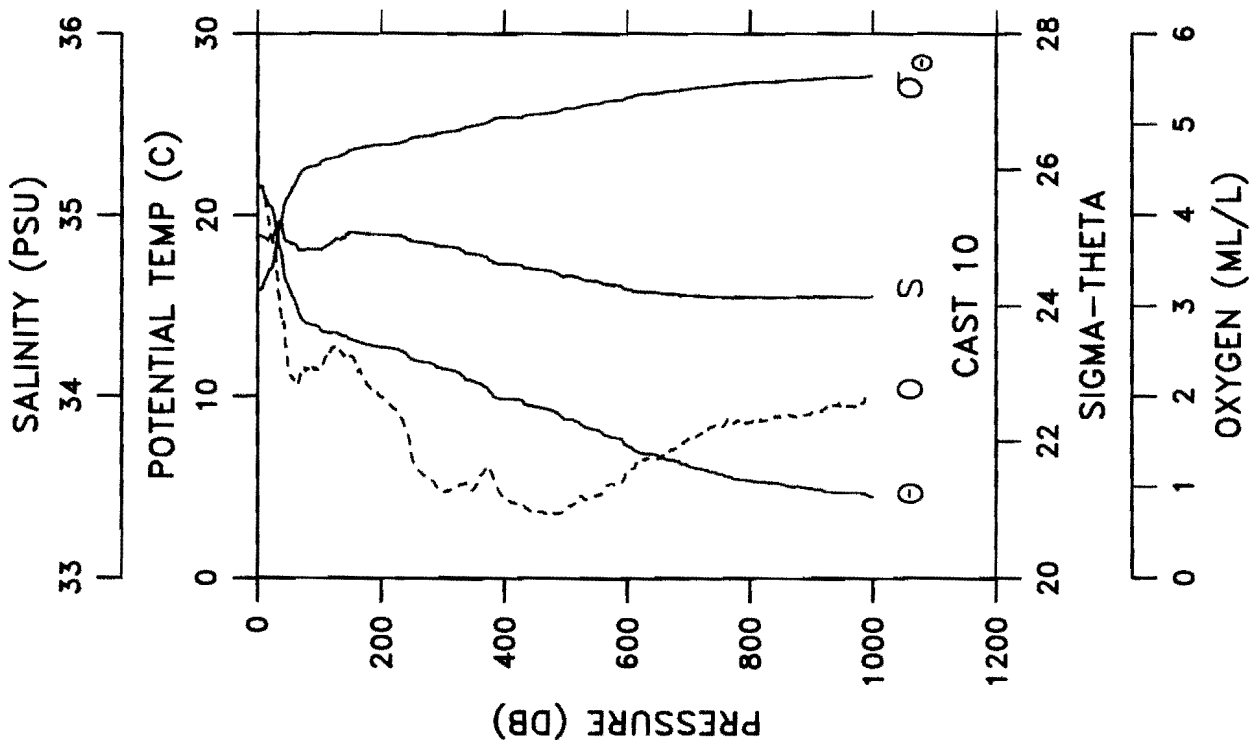


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 21.733 | 34.877 | 4.21 | 24.200 | 0.000 |
| 10 | 21.514 | 34.890 | 4.16 | 24.270 | 0.037 |
| 20 | 20.567 | 34.877 | 3.66 | 24.519 | 0.072 |
| 30 | 19.558 | 34.915 | 3.27 | 24.814 | 0.105 |
| 40 | 17.736 | 34.969 | 2.75 | 25.314 | 0.134 |
| 50 | 16.016 | 34.856 | 2.14 | 25.634 | 0.158 |
| 60 | 15.241 | 34.831 | 2.11 | 25.789 | 0.181 |
| 70 | 14.157 | 34.806 | 2.29 | 26.004 | 0.202 |
| 80 | 14.022 | 34.816 | 2.21 | 26.041 | 0.222 |
| 90 | 13.926 | 34.812 | 2.27 | 26.058 | 0.242 |
| 100 | 13.749 | 34.805 | 2.28 | 26.090 | 0.261 |
| 110 | 13.473 | 34.826 | 2.39 | 26.163 | 0.280 |
| 120 | 13.456 | 34.842 | 2.43 | 26.179 | 0.299 |
| 130 | 13.416 | 34.855 | 2.49 | 26.197 | 0.318 |
| 140 | 13.350 | 34.858 | 2.44 | 26.213 | 0.336 |
| 150 | 13.287 | 34.890 | 2.44 | 26.250 | 0.354 |
| 160 | 13.118 | 34.901 | 2.42 | 26.293 | 0.372 |
| 170 | 12.989 | 34.898 | 2.24 | 26.316 | 0.389 |
| 180 | 12.880 | 34.894 | 2.12 | 26.335 | 0.407 |
| 190 | 12.817 | 34.891 | 2.03 | 26.346 | 0.424 |
| 200 | 12.743 | 34.890 | 2.00 | 26.359 | 0.441 |
| 250 | 12.002 | 34.851 | 1.29 | 26.473 | 0.525 |
| 300 | 11.641 | 34.829 | 0.99 | 26.525 | 0.605 |
| 350 | 10.868 | 34.784 | 0.95 | 26.632 | 0.681 |
| 400 | 9.853 | 34.728 | 0.89 | 26.765 | 0.752 |
| 450 | 9.465 | 34.702 | 0.73 | 26.809 | 0.820 |
| 500 | 8.760 | 34.665 | 0.74 | 26.895 | 0.885 |
| 550 | 8.173 | 34.636 | 0.91 | 26.963 | 0.946 |
| 600 | 7.307 | 34.596 | 1.17 | 27.057 | 1.004 |
| 650 | 6.773 | 34.577 | 1.30 | 27.117 | 1.057 |
| 700 | 6.238 | 34.560 | 1.49 | 27.175 | 1.108 |
| 750 | 5.845 | 34.551 | 1.69 | 27.218 | 1.156 |
| 800 | 5.422 | 34.549 | 1.73 | 27.268 | 1.202 |
| 900 | 5.020 | 34.550 | 1.78 | 27.317 | 1.290 |
| 1000 | 4.684 | 34.551 | 1.93 | 27.356 | 1.374 |
| 1500 | 2.985 | 34.602 | 2.10 | 27.569 | 1.726 |
| 1944 | 2.277 | 34.633 | 2.37 | 27.655 | 1.978 |

CAST EP2-88-OC -010 DATE 26 JUN 88 TIME 0341 GMT
LAT 00 09.1N LONG 124 22.7W

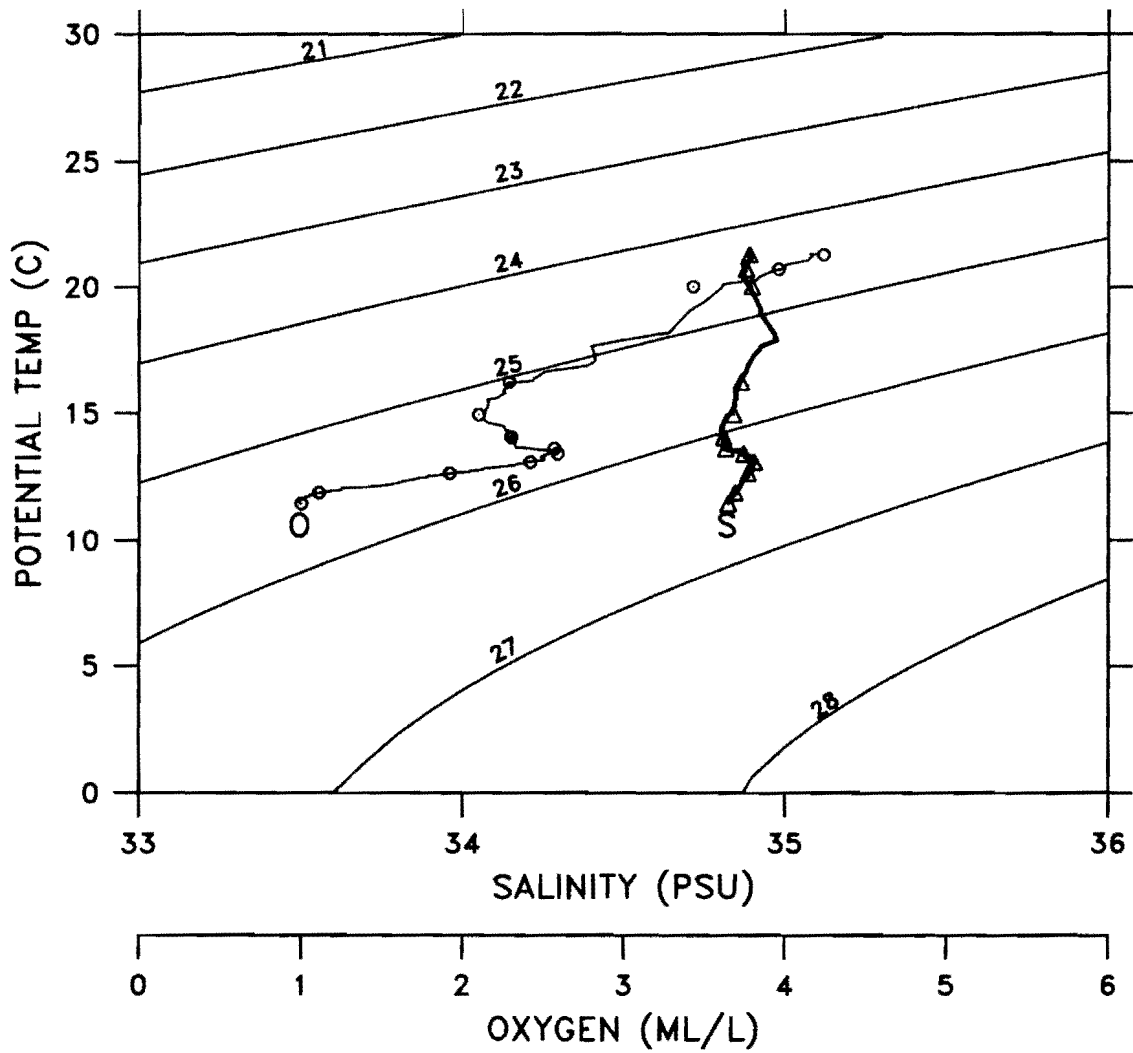


CAST EP2-88-OC -010 DATE 26 JUN 88 TIME 0341 GMT
 LAT 00 09.1N LONG 124 22.7W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 085 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 21.5 WET 20.0 DEPTH 4610 M

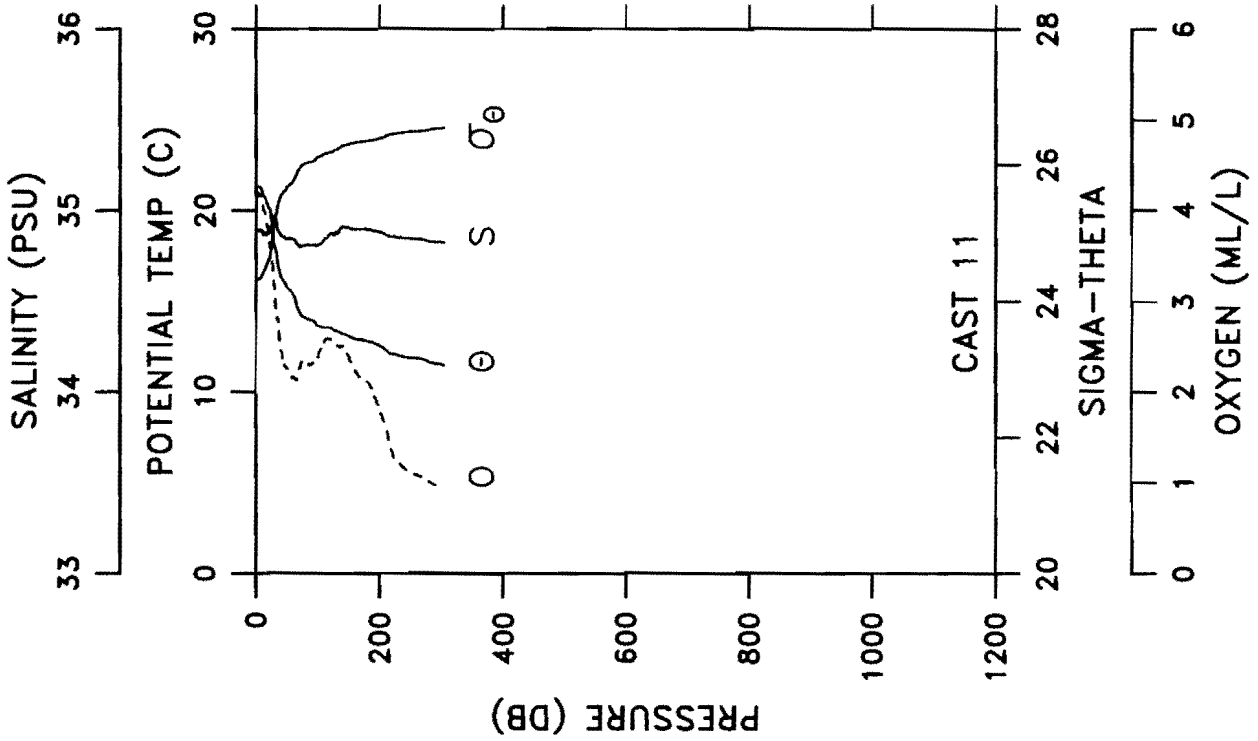


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 21.626 | 34.887 | 4.30 | 24.237 | 0.000 |
| 10 | 21.157 | 34.875 | 4.22 | 24.358 | 0.037 |
| 20 | 20.513 | 34.876 | 3.78 | 24.533 | 0.071 |
| 30 | 19.234 | 34.920 | 3.38 | 24.901 | 0.104 |
| 40 | 17.565 | 34.923 | 2.78 | 25.321 | 0.132 |
| 50 | 16.064 | 34.851 | 2.29 | 25.620 | 0.157 |
| 60 | 15.339 | 34.841 | 2.16 | 25.775 | 0.180 |
| 70 | 14.343 | 34.802 | 2.31 | 25.963 | 0.201 |
| 80 | 14.046 | 34.811 | 2.30 | 26.032 | 0.222 |
| 90 | 13.948 | 34.810 | 2.31 | 26.052 | 0.241 |
| 100 | 13.824 | 34.810 | 2.31 | 26.078 | 0.261 |
| 110 | 13.537 | 34.826 | 2.43 | 26.149 | 0.280 |
| 120 | 13.521 | 34.851 | 2.54 | 26.172 | 0.299 |
| 130 | 13.467 | 34.866 | 2.53 | 26.195 | 0.318 |
| 140 | 13.324 | 34.870 | 2.45 | 26.227 | 0.336 |
| 150 | 13.158 | 34.904 | 2.45 | 26.287 | 0.354 |
| 160 | 13.031 | 34.903 | 2.29 | 26.312 | 0.371 |
| 170 | 12.935 | 34.897 | 2.21 | 26.327 | 0.389 |
| 180 | 12.841 | 34.895 | 2.11 | 26.344 | 0.406 |
| 190 | 12.765 | 34.894 | 2.04 | 26.359 | 0.423 |
| 200 | 12.725 | 34.894 | 2.00 | 26.366 | 0.440 |
| 250 | 12.048 | 34.856 | 1.33 | 26.469 | 0.525 |
| 300 | 11.499 | 34.826 | 0.95 | 26.549 | 0.604 |
| 350 | 10.818 | 34.783 | 0.97 | 26.640 | 0.680 |
| 400 | 9.847 | 34.728 | 0.87 | 26.766 | 0.751 |
| 450 | 9.447 | 34.702 | 0.73 | 26.812 | 0.818 |
| 500 | 8.731 | 34.665 | 0.76 | 26.899 | 0.883 |
| 550 | 8.160 | 34.638 | 0.91 | 26.966 | 0.944 |
| 600 | 7.298 | 34.592 | 1.17 | 27.056 | 1.001 |
| 650 | 6.721 | 34.575 | 1.31 | 27.122 | 1.054 |
| 700 | 6.162 | 34.560 | 1.52 | 27.184 | 1.104 |
| 750 | 5.698 | 34.552 | 1.66 | 27.237 | 1.152 |
| 800 | 5.342 | 34.551 | 1.71 | 27.279 | 1.197 |
| 900 | 4.910 | 34.551 | 1.83 | 27.330 | 1.284 |
| 1000 | 4.455 | 34.556 | 2.00 | 27.385 | 1.366 |
| 1500 | 2.987 | 34.603 | 2.11 | 27.570 | 1.713 |
| 2000 | 2.269 | 34.635 | 2.39 | 27.658 | 1.996 |
| 2500 | 1.720 | 34.661 | 2.79 | 27.722 | 2.244 |
| 3000 | 1.485 | 34.672 | 3.09 | 27.748 | 2.477 |
| 3500 | 1.255 | 34.686 | 3.42 | 27.775 | 2.703 |
| 4000 | 1.116 | 34.692 | 3.68 | 27.790 | 2.920 |
| 4500 | 1.108 | 34.693 | 3.79 | 27.792 | 3.143 |
| 4664 | 1.107 | 34.693 | 3.82 | 27.792 | 3.218 |

CAST EP2-88-OC -011 DATE 26 JUN 88 TIME 0609 GMT
LAT 00 08.7N LONG 124 22.3W

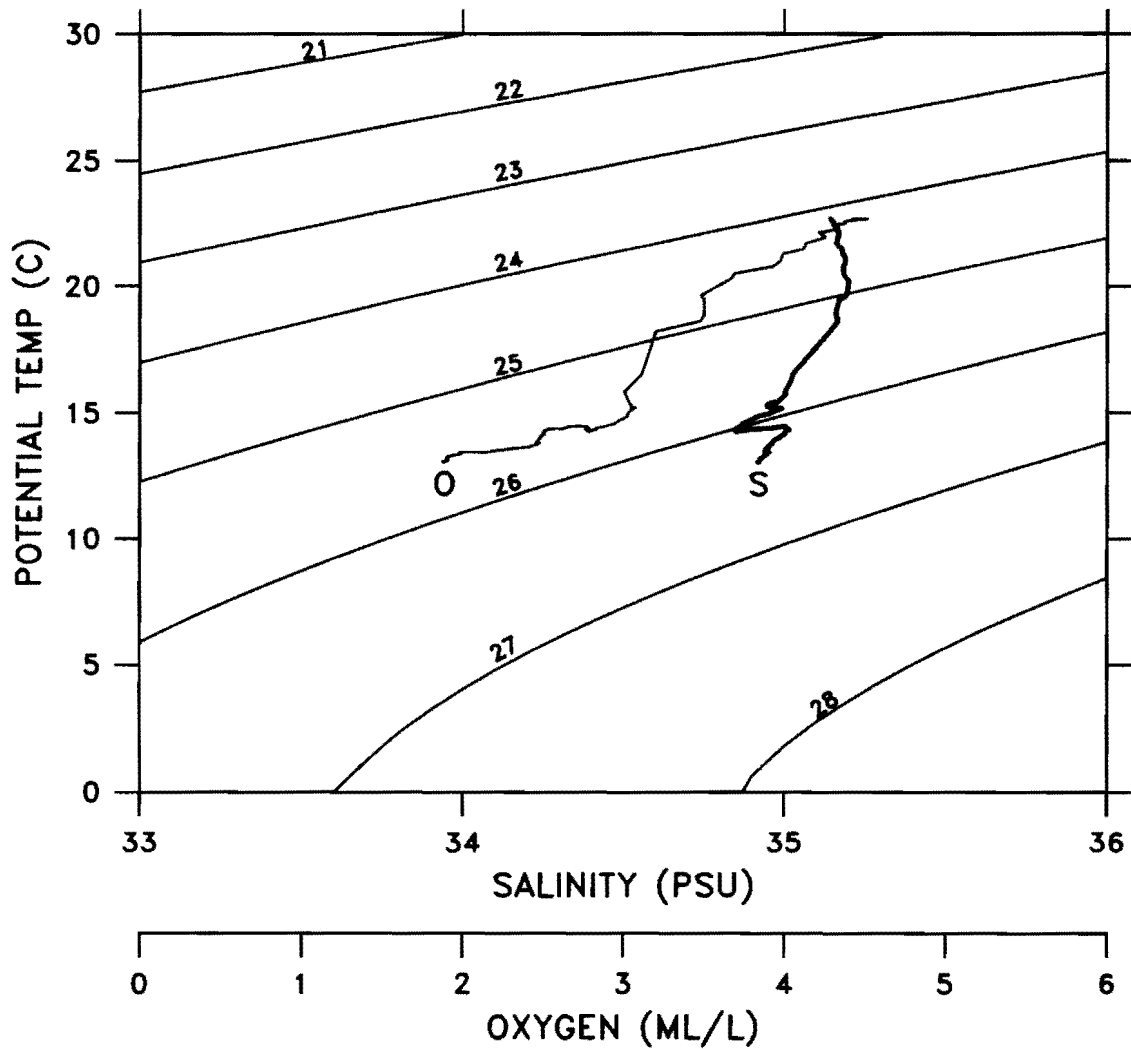


CAST EP2-88-OC -011 DATE 26 JUN 88 TIME 0609 GMT
 LAT 00 08.7N LONG 124 22.3W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 085 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 21.7 WET 21.0 DEPTH 4616 M

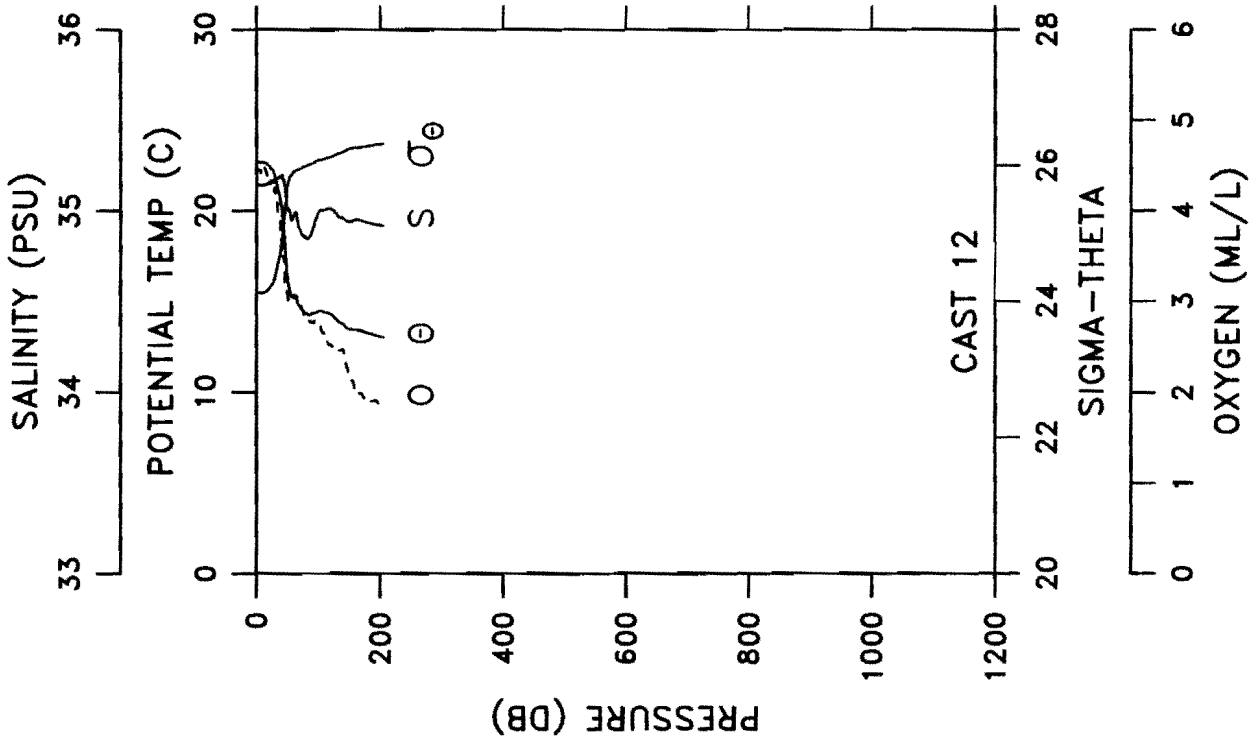


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 21.308 | 34.892 | 4.19 | 24.329 | 0.000 |
| 10 | 21.070 | 34.893 | 4.14 | 24.395 | 0.036 |
| 20 | 20.209 | 34.879 | 3.73 | 24.615 | 0.070 |
| 30 | 18.076 | 34.968 | 3.15 | 25.230 | 0.101 |
| 40 | 16.375 | 34.863 | 2.44 | 25.557 | 0.127 |
| 50 | 15.789 | 34.849 | 2.27 | 25.680 | 0.150 |
| 60 | 15.397 | 34.842 | 2.16 | 25.763 | 0.173 |
| 70 | 14.430 | 34.802 | 2.26 | 25.943 | 0.195 |
| 80 | 14.050 | 34.811 | 2.28 | 26.032 | 0.215 |
| 90 | 13.947 | 34.810 | 2.30 | 26.052 | 0.235 |
| 100 | 13.639 | 34.813 | 2.36 | 26.118 | 0.254 |
| 110 | 13.525 | 34.843 | 2.54 | 26.166 | 0.273 |
| 120 | 13.529 | 34.875 | 2.57 | 26.189 | 0.292 |
| 130 | 13.352 | 34.884 | 2.51 | 26.233 | 0.310 |
| 140 | 13.166 | 34.909 | 2.49 | 26.290 | 0.328 |
| 150 | 13.060 | 34.907 | 2.40 | 26.309 | 0.346 |
| 160 | 12.892 | 34.897 | 2.22 | 26.335 | 0.363 |
| 170 | 12.838 | 34.897 | 2.15 | 26.346 | 0.380 |
| 180 | 12.767 | 34.895 | 2.11 | 26.359 | 0.397 |
| 190 | 12.666 | 34.888 | 1.97 | 26.374 | 0.414 |
| 200 | 12.518 | 34.883 | 1.79 | 26.399 | 0.431 |
| 250 | 11.873 | 34.847 | 1.11 | 26.495 | 0.512 |
| 300 | 11.503 | 34.826 | 0.99 | 26.548 | 0.591 |
| 304 | 11.452 | 34.824 | 0.99 | 26.557 | 0.597 |

CAST EP2-88-OC -012 DATE 27 JUN 88 TIME 0505 GMT
LAT 00 01.4N LONG 119 59.8W

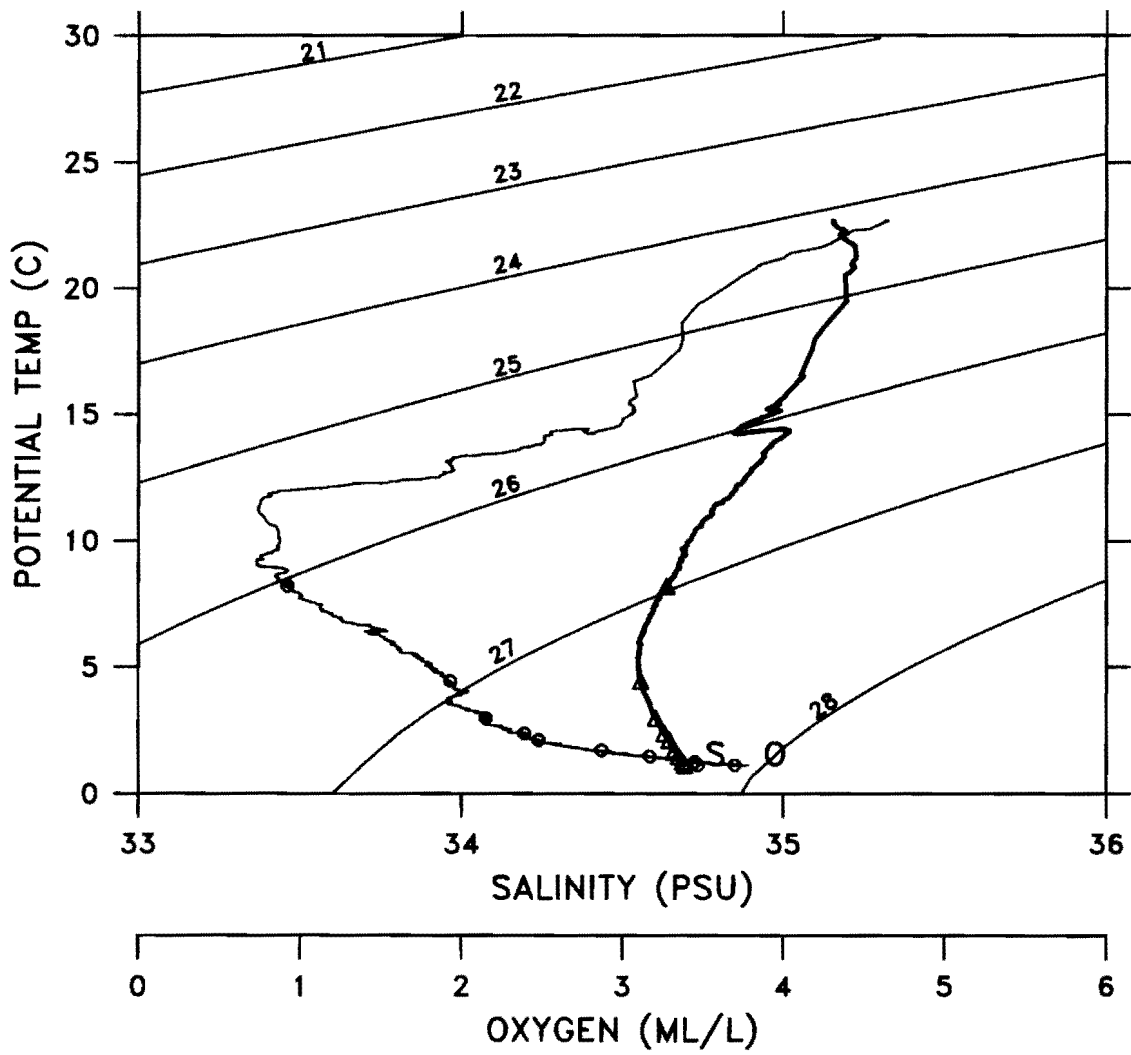


CAST EP2-88-OC -012 DATE 27 JUN 88 TIME 0505 GMT
 LAT 00 01.4N LONG 119 59.8W WEATHER SEA STATE
 BAROMETER WIND DIR T SPD WET VISIBILITY
 CLOUD AMOUNT DRY WET DEPTH 4179 M

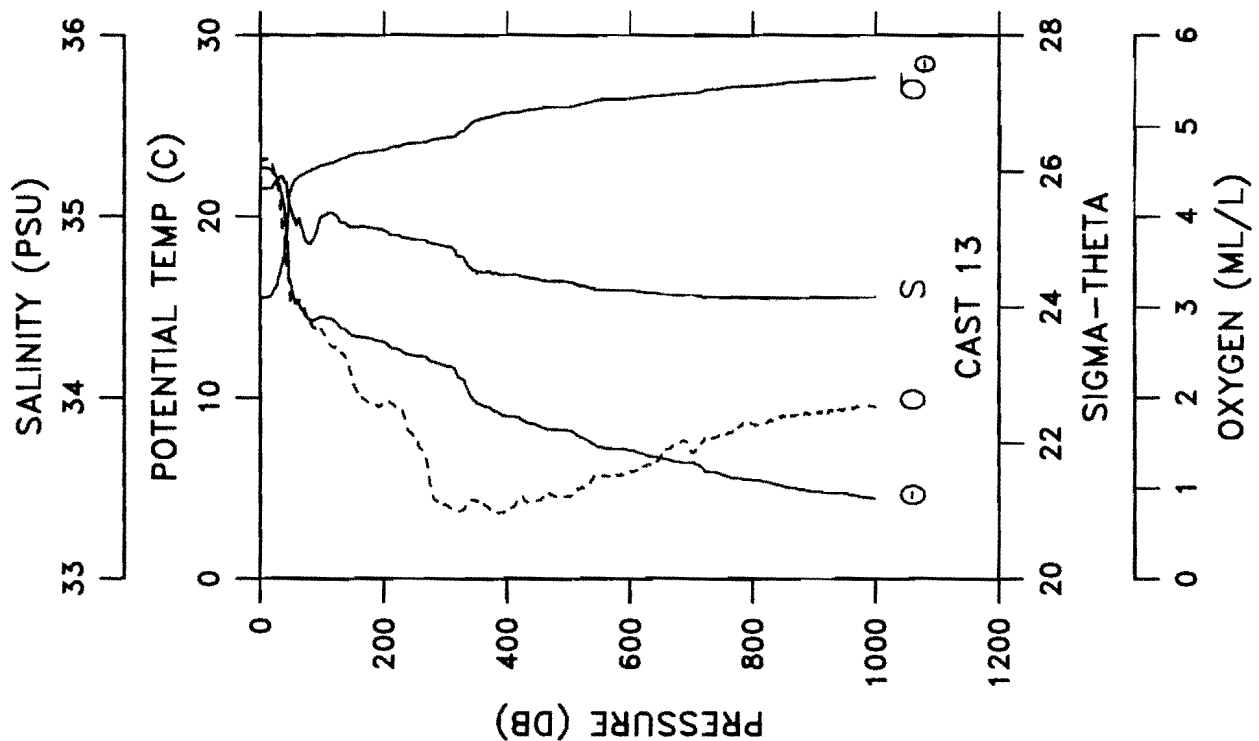


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.716 | 35.143 | 4.45 | 24.125 | 0.000 |
| 10 | 22.718 | 35.142 | 4.49 | 24.124 | 0.038 |
| 20 | 22.537 | 35.153 | 4.38 | 24.184 | 0.076 |
| 30 | 21.971 | 35.165 | 4.25 | 24.353 | 0.112 |
| 40 | 20.305 | 35.192 | 3.67 | 24.829 | 0.146 |
| 50 | 16.348 | 35.024 | 3.09 | 25.687 | 0.173 |
| 60 | 15.198 | 34.973 | 3.08 | 25.908 | 0.195 |
| 70 | 14.736 | 34.901 | 2.99 | 25.954 | 0.216 |
| 80 | 14.343 | 34.850 | 2.82 | 25.999 | 0.236 |
| 90 | 14.313 | 34.886 | 2.77 | 26.033 | 0.256 |
| 100 | 14.454 | 34.990 | 2.76 | 26.084 | 0.276 |
| 110 | 14.391 | 35.006 | 2.63 | 26.110 | 0.295 |
| 120 | 14.308 | 35.014 | 2.53 | 26.133 | 0.314 |
| 130 | 14.007 | 34.985 | 2.49 | 26.175 | 0.333 |
| 140 | 13.775 | 34.961 | 2.47 | 26.204 | 0.352 |
| 150 | 13.470 | 34.939 | 2.17 | 26.251 | 0.370 |
| 160 | 13.433 | 34.952 | 2.02 | 26.268 | 0.388 |
| 170 | 13.365 | 34.945 | 1.98 | 26.277 | 0.406 |
| 180 | 13.258 | 34.935 | 1.92 | 26.291 | 0.423 |
| 190 | 13.149 | 34.925 | 1.91 | 26.306 | 0.441 |
| 200 | 13.062 | 34.920 | 1.88 | 26.319 | 0.459 |
| 205 | 13.037 | 34.918 | 1.89 | 26.322 | 0.467 |

CAST EP2-88-OC -013 DATE 27 JUN 88 TIME 0741 GMT
LAT 00 01.4N LONG 119 59.8W

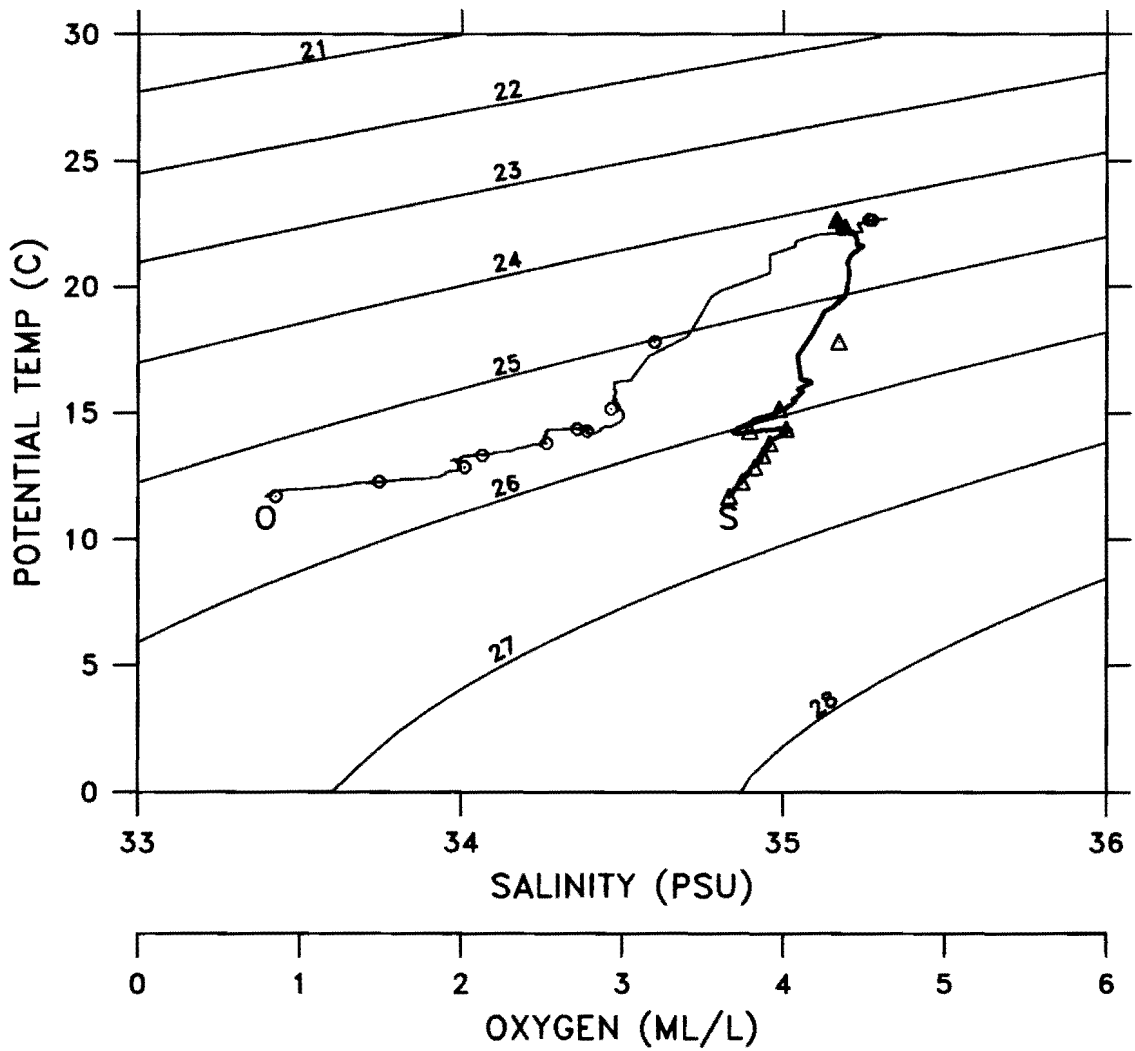


CAST EP2-88-OC-013 DATE 27 JUN 88 TIME 0741 GMT
 LAT 00 01.4N LONG 119 59.8W WEATHER 0 SEA STATE 3
 BAROMETER 14 WIND DIR 120 T SPD 15 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 22.4 WET 21.5 DEPTH 4193 M

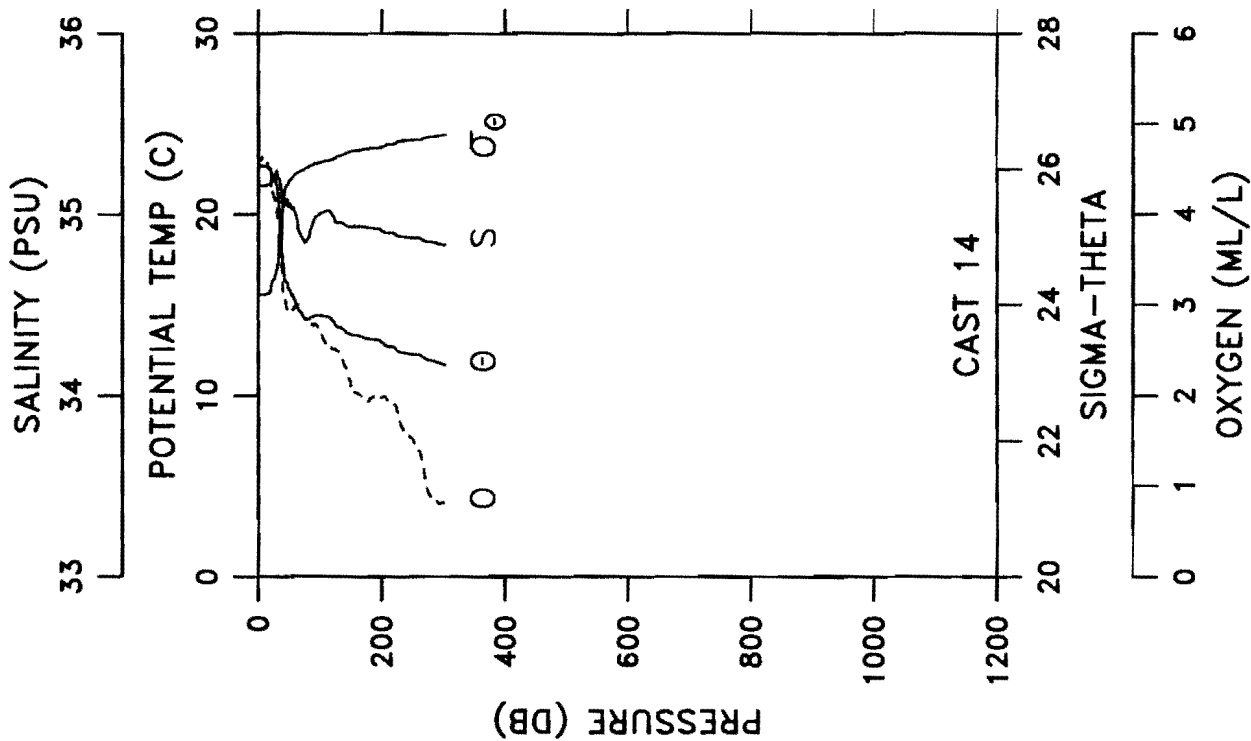


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 22.709 | 35.152 | 4.64 | 24.134 | 0.000 |
| 10 | 22.704 | 35.153 | 4.64 | 24.136 | 0.038 |
| 20 | 22.466 | 35.162 | 4.55 | 24.211 | 0.075 |
| 30 | 21.796 | 35.212 | 4.29 | 24.438 | 0.112 |
| 40 | 19.998 | 35.193 | 3.63 | 24.911 | 0.145 |
| 50 | 16.221 | 35.040 | 3.07 | 25.728 | 0.171 |
| 60 | 15.178 | 34.965 | 3.06 | 25.906 | 0.193 |
| 70 | 14.735 | 34.904 | 3.00 | 25.956 | 0.213 |
| 80 | 14.291 | 34.846 | 2.83 | 26.007 | 0.234 |
| 90 | 14.323 | 34.908 | 2.76 | 26.048 | 0.254 |
| 100 | 14.440 | 34.999 | 2.75 | 26.093 | 0.273 |
| 110 | 14.372 | 35.016 | 2.62 | 26.122 | 0.292 |
| 120 | 14.248 | 35.009 | 2.55 | 26.143 | 0.311 |
| 130 | 13.861 | 34.965 | 2.50 | 26.190 | 0.330 |
| 140 | 13.710 | 34.954 | 2.39 | 26.213 | 0.349 |
| 150 | 13.437 | 34.940 | 2.16 | 26.258 | 0.367 |
| 160 | 13.359 | 34.941 | 2.05 | 26.275 | 0.385 |
| 170 | 13.302 | 34.940 | 1.98 | 26.286 | 0.403 |
| 180 | 13.256 | 34.936 | 1.95 | 26.293 | 0.420 |
| 190 | 13.143 | 34.930 | 1.90 | 26.311 | 0.438 |
| 200 | 13.073 | 34.923 | 1.93 | 26.319 | 0.455 |
| 250 | 12.314 | 34.871 | 1.55 | 26.429 | 0.540 |
| 300 | 11.760 | 34.834 | 0.82 | 26.506 | 0.622 |
| 350 | 9.781 | 34.696 | 0.85 | 26.752 | 0.697 |
| 400 | 8.981 | 34.676 | 0.76 | 26.868 | 0.762 |
| 450 | 8.472 | 34.651 | 0.86 | 26.929 | 0.824 |
| 500 | 8.214 | 34.637 | 0.91 | 26.957 | 0.883 |
| 550 | 7.314 | 34.597 | 1.12 | 27.058 | 0.940 |
| 600 | 7.126 | 34.592 | 1.20 | 27.080 | 0.994 |
| 650 | 6.689 | 34.573 | 1.35 | 27.125 | 1.047 |
| 700 | 6.422 | 34.569 | 1.41 | 27.158 | 1.098 |
| 750 | 5.767 | 34.554 | 1.60 | 27.230 | 1.146 |
| 800 | 5.453 | 34.552 | 1.71 | 27.267 | 1.192 |
| 900 | 4.835 | 34.553 | 1.83 | 27.340 | 1.279 |
| 1000 | 4.443 | 34.557 | 1.90 | 27.387 | 1.360 |
| 1500 | 2.955 | 34.603 | 2.17 | 27.573 | 1.708 |
| 2000 | 2.102 | 34.644 | 2.45 | 27.678 | 1.987 |
| 2500 | 1.702 | 34.662 | 2.84 | 27.724 | 2.234 |
| 3000 | 1.454 | 34.674 | 3.15 | 27.752 | 2.466 |
| 3500 | 1.236 | 34.687 | 3.46 | 27.778 | 2.691 |
| 4000 | 1.118 | 34.693 | 3.71 | 27.791 | 2.907 |
| 4248 | 1.118 | 34.693 | 3.75 | 27.791 | 3.016 |

CAST EP2-88-OC -014 DATE 27 JUN 88 TIME 0952 GMT
LAT 00 02.4N LONG 119 59.7W

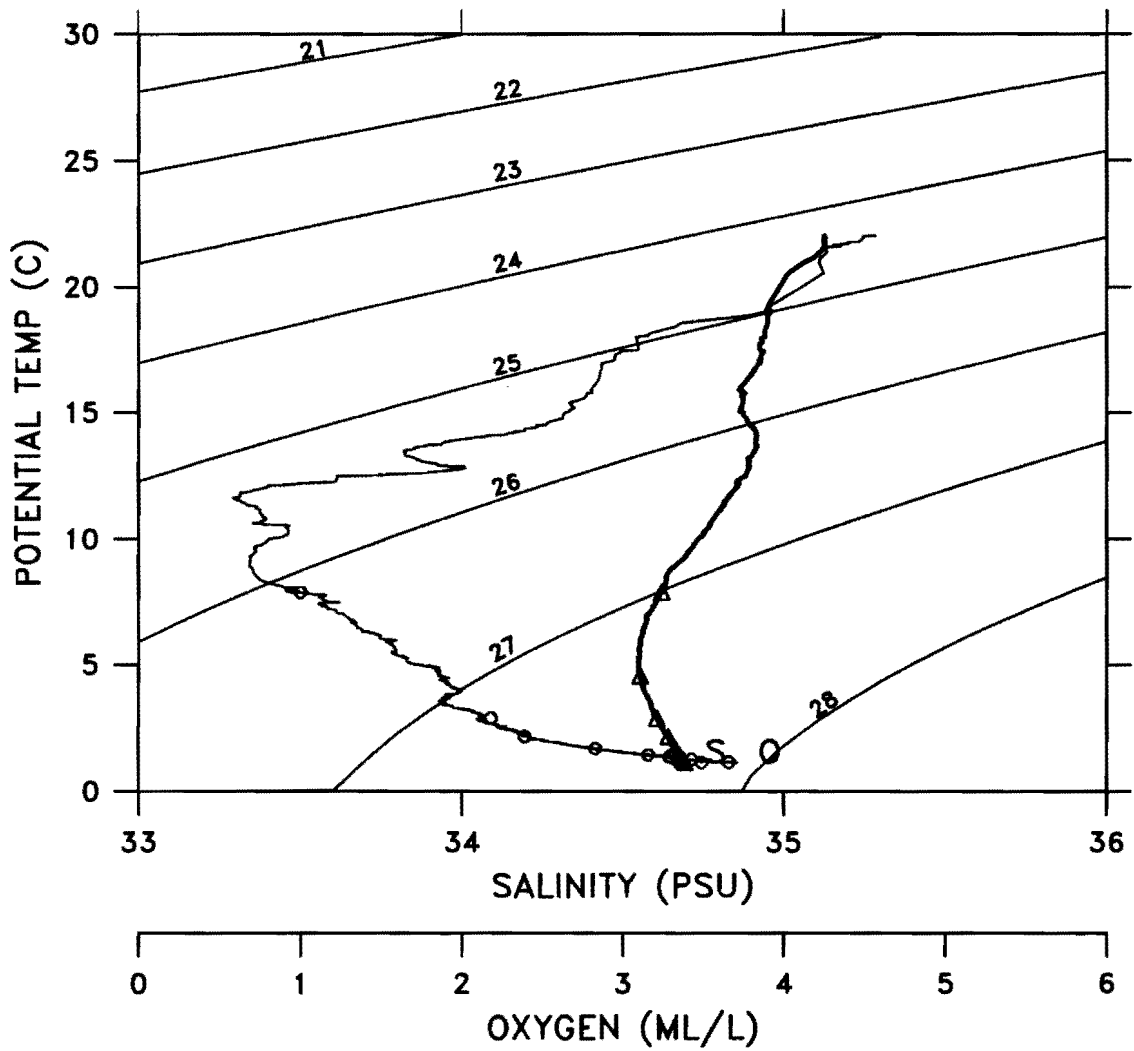


CAST EP2-88-OC -014 DATE 27 JUN 88 TIME 0952 GMT
 LAT 00 02.4N LONG 119 59.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 120 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY DIR 22.2 WET 21.2 DEPTH 4181 M

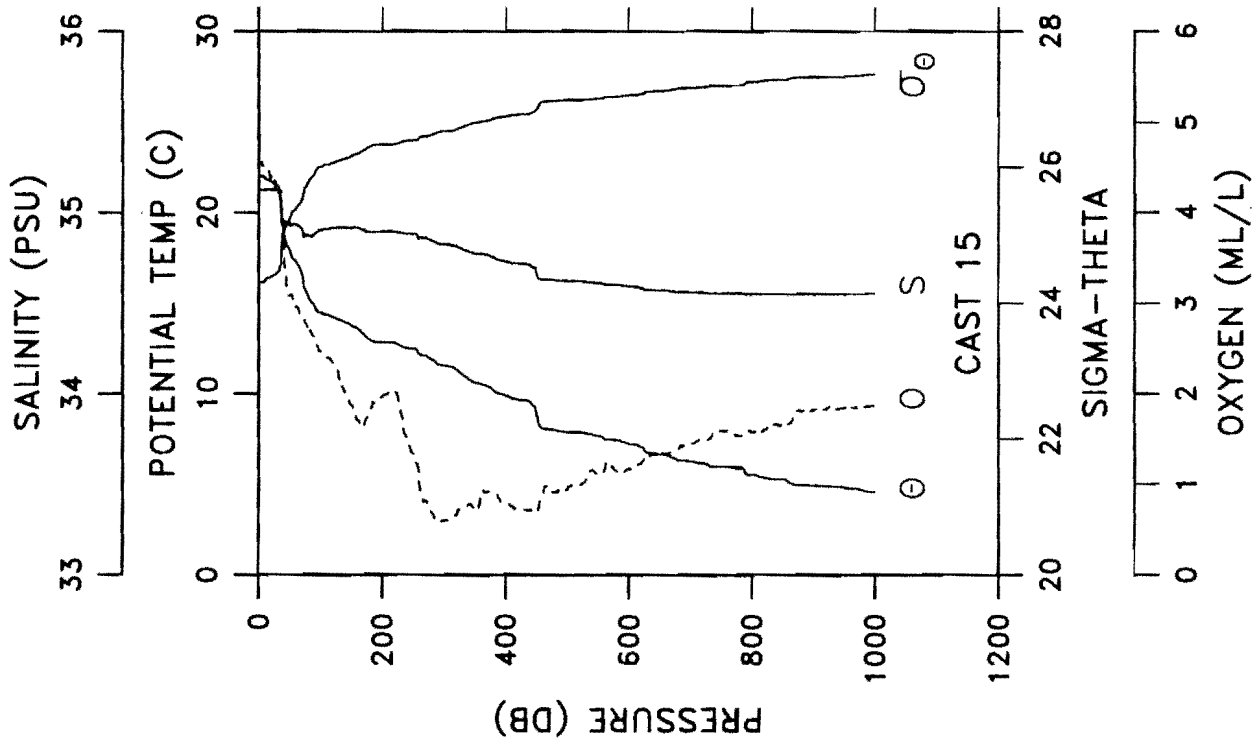


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 22.678 | 35.159 | 4.63 | 24.148 | 0.000 |
| 10 | 22.678 | 35.158 | 4.64 | 24.148 | 0.038 |
| 20 | 22.487 | 35.159 | 4.46 | 24.202 | 0.075 |
| 30 | 21.614 | 35.247 | 4.08 | 24.515 | 0.111 |
| 40 | 17.254 | 35.044 | 3.17 | 25.488 | 0.140 |
| 50 | 15.848 | 35.062 | 2.95 | 25.831 | 0.163 |
| 60 | 15.184 | 35.008 | 2.98 | 25.938 | 0.184 |
| 70 | 14.509 | 34.878 | 2.94 | 25.986 | 0.205 |
| 80 | 14.206 | 34.865 | 2.80 | 26.040 | 0.225 |
| 90 | 14.371 | 34.970 | 2.79 | 26.086 | 0.245 |
| 100 | 14.400 | 35.006 | 2.69 | 26.107 | 0.264 |
| 110 | 14.357 | 35.020 | 2.58 | 26.128 | 0.283 |
| 120 | 14.139 | 34.992 | 2.53 | 26.153 | 0.302 |
| 130 | 13.786 | 34.955 | 2.49 | 26.198 | 0.321 |
| 140 | 13.590 | 34.944 | 2.34 | 26.230 | 0.339 |
| 150 | 13.361 | 34.934 | 2.08 | 26.269 | 0.357 |
| 160 | 13.317 | 34.935 | 2.04 | 26.279 | 0.375 |
| 170 | 13.195 | 34.931 | 1.98 | 26.300 | 0.393 |
| 180 | 13.129 | 34.925 | 1.96 | 26.309 | 0.410 |
| 190 | 13.092 | 34.921 | 2.00 | 26.313 | 0.428 |
| 200 | 12.948 | 34.909 | 1.98 | 26.334 | 0.445 |
| 250 | 12.299 | 34.871 | 1.52 | 26.432 | 0.530 |
| 300 | 11.741 | 34.831 | 0.82 | 26.508 | 0.611 |
| 303 | 11.722 | 34.832 | 0.79 | 26.512 | 0.616 |

CAST EP2-88-OC -015 DATE 28 JUN 88 TIME 0707 GMT
LAT 00 00.3S LONG 114 59.8W

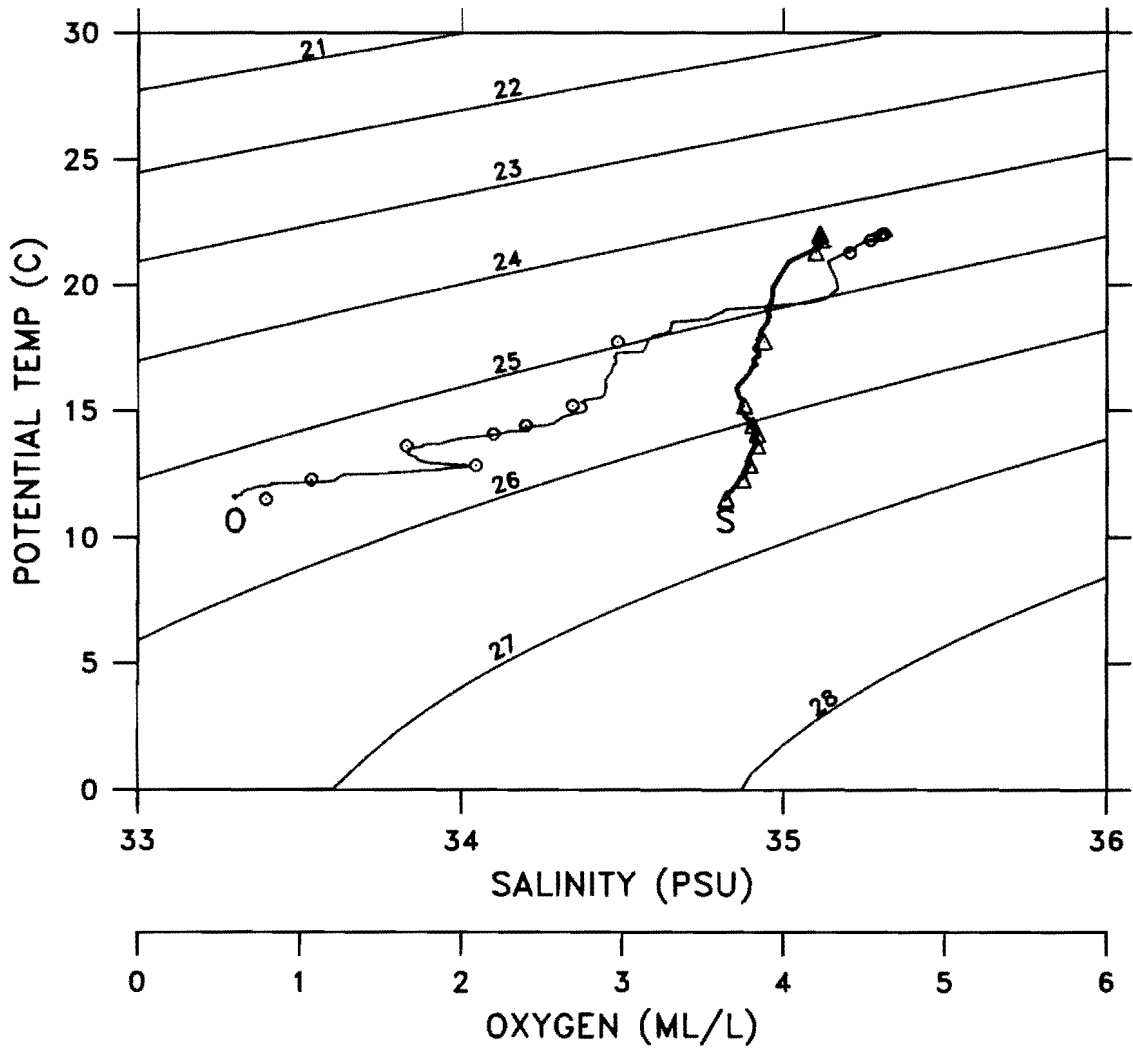


CAST EP2-88-OC -015 DATE 28 JUN 88 TIME 0707 GMT
 LAT 00 00.3S LONG 114 59.8W WEATHER 1 SEA STATE 1
 BAROMETER 14 WIND DIR 130 T SPD 06 KT VISIBILITY 8
 CLOUD 7 AMOUNT 6 DRY 21.8 WET 21.0 DEPTH 4028 M

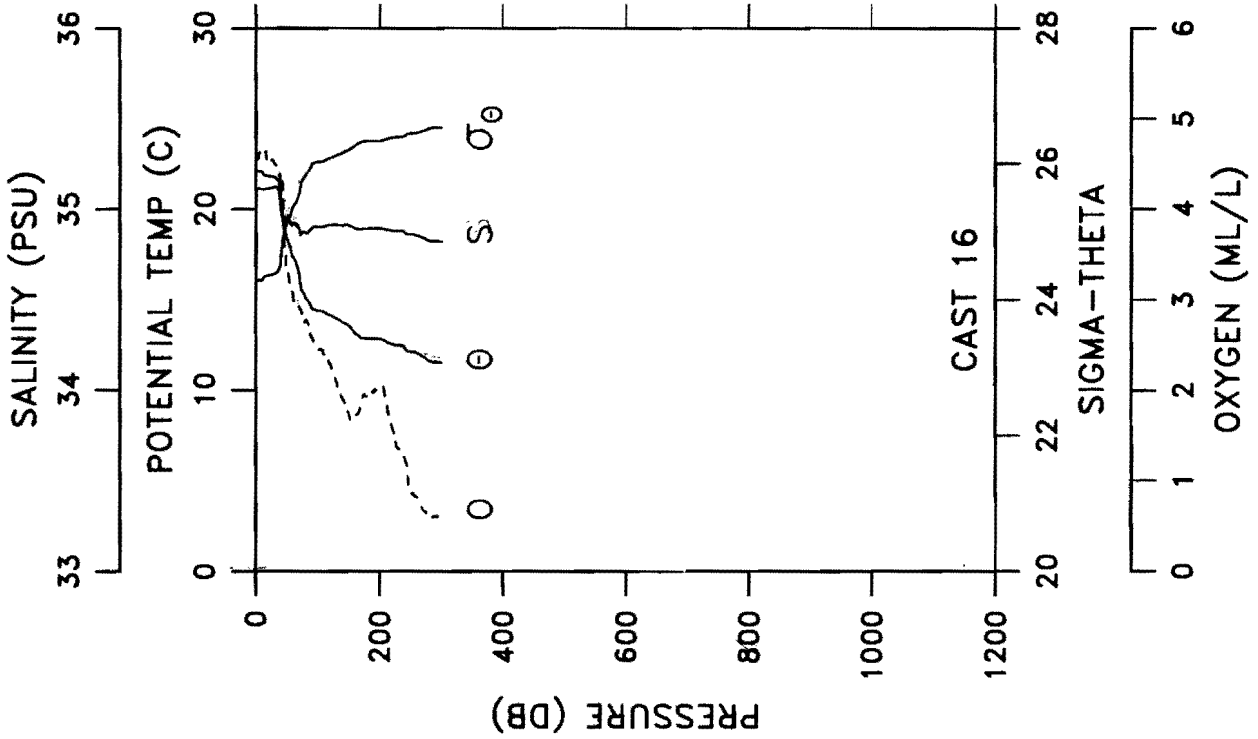


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.028 | 35.127 | 4.55 | 24.308 | 0.000 |
| 10 | 21.948 | 35.131 | 4.50 | 24.333 | 0.036 |
| 20 | 21.729 | 35.125 | 4.39 | 24.390 | 0.072 |
| 30 | 21.522 | 35.123 | 4.26 | 24.446 | 0.107 |
| 40 | 18.876 | 34.952 | 3.80 | 25.017 | 0.140 |
| 50 | 17.962 | 34.931 | 3.09 | 25.229 | 0.168 |
| 60 | 17.299 | 34.932 | 2.95 | 25.392 | 0.194 |
| 70 | 16.663 | 34.911 | 2.86 | 25.526 | 0.220 |
| 80 | 15.386 | 34.874 | 2.67 | 25.790 | 0.243 |
| 90 | 14.861 | 34.876 | 2.63 | 25.908 | 0.265 |
| 100 | 14.477 | 34.903 | 2.47 | 26.011 | 0.285 |
| 110 | 14.347 | 34.908 | 2.40 | 26.044 | 0.305 |
| 120 | 14.227 | 34.915 | 2.35 | 26.074 | 0.325 |
| 130 | 14.084 | 34.915 | 2.17 | 26.105 | 0.344 |
| 140 | 13.924 | 34.914 | 1.99 | 26.137 | 0.364 |
| 150 | 13.754 | 34.913 | 1.88 | 26.172 | 0.382 |
| 160 | 13.588 | 34.915 | 1.71 | 26.208 | 0.401 |
| 170 | 13.273 | 34.900 | 1.65 | 26.261 | 0.419 |
| 180 | 12.979 | 34.892 | 1.83 | 26.314 | 0.437 |
| 190 | 12.853 | 34.893 | 1.93 | 26.340 | 0.454 |
| 200 | 12.847 | 34.895 | 1.97 | 26.343 | 0.472 |
| 250 | 12.480 | 34.882 | 1.34 | 26.405 | 0.557 |
| 300 | 11.563 | 34.825 | 0.60 | 26.536 | 0.638 |
| 350 | 10.635 | 34.775 | 0.73 | 26.666 | 0.714 |
| 400 | 9.909 | 34.728 | 0.79 | 26.756 | 0.785 |
| 450 | 8.903 | 34.663 | 0.68 | 26.870 | 0.852 |
| 500 | 7.876 | 34.623 | 0.94 | 26.996 | 0.910 |
| 550 | 7.668 | 34.611 | 1.11 | 27.018 | 0.967 |
| 600 | 7.230 | 34.593 | 1.16 | 27.066 | 1.022 |
| 650 | 6.645 | 34.573 | 1.34 | 27.131 | 1.075 |
| 700 | 6.259 | 34.563 | 1.44 | 27.174 | 1.125 |
| 750 | 5.967 | 34.557 | 1.59 | 27.207 | 1.174 |
| 800 | 5.520 | 34.555 | 1.57 | 27.261 | 1.221 |
| 900 | 4.926 | 34.550 | 1.81 | 27.327 | 1.308 |
| 1000 | 4.578 | 34.555 | 1.87 | 27.370 | 1.392 |
| 1500 | 2.931 | 34.604 | 2.13 | 27.576 | 1.743 |
| 2000 | 2.188 | 34.639 | 2.40 | 27.668 | 2.023 |
| 2500 | 1.685 | 34.663 | 2.84 | 27.726 | 2.269 |
| 3000 | 1.438 | 34.675 | 3.15 | 27.754 | 2.501 |
| 3500 | 1.259 | 34.685 | 3.42 | 27.775 | 2.726 |
| 4000 | 1.142 | 34.692 | 3.67 | 27.788 | 2.943 |
| 4072 | 1.132 | 34.692 | 3.71 | 27.789 | 2.975 |

CAST EP2-88-OC -016 DATE 28 JUN 88 TIME 1002 GMT
LAT 00 00.1N LONG 114 58.7W

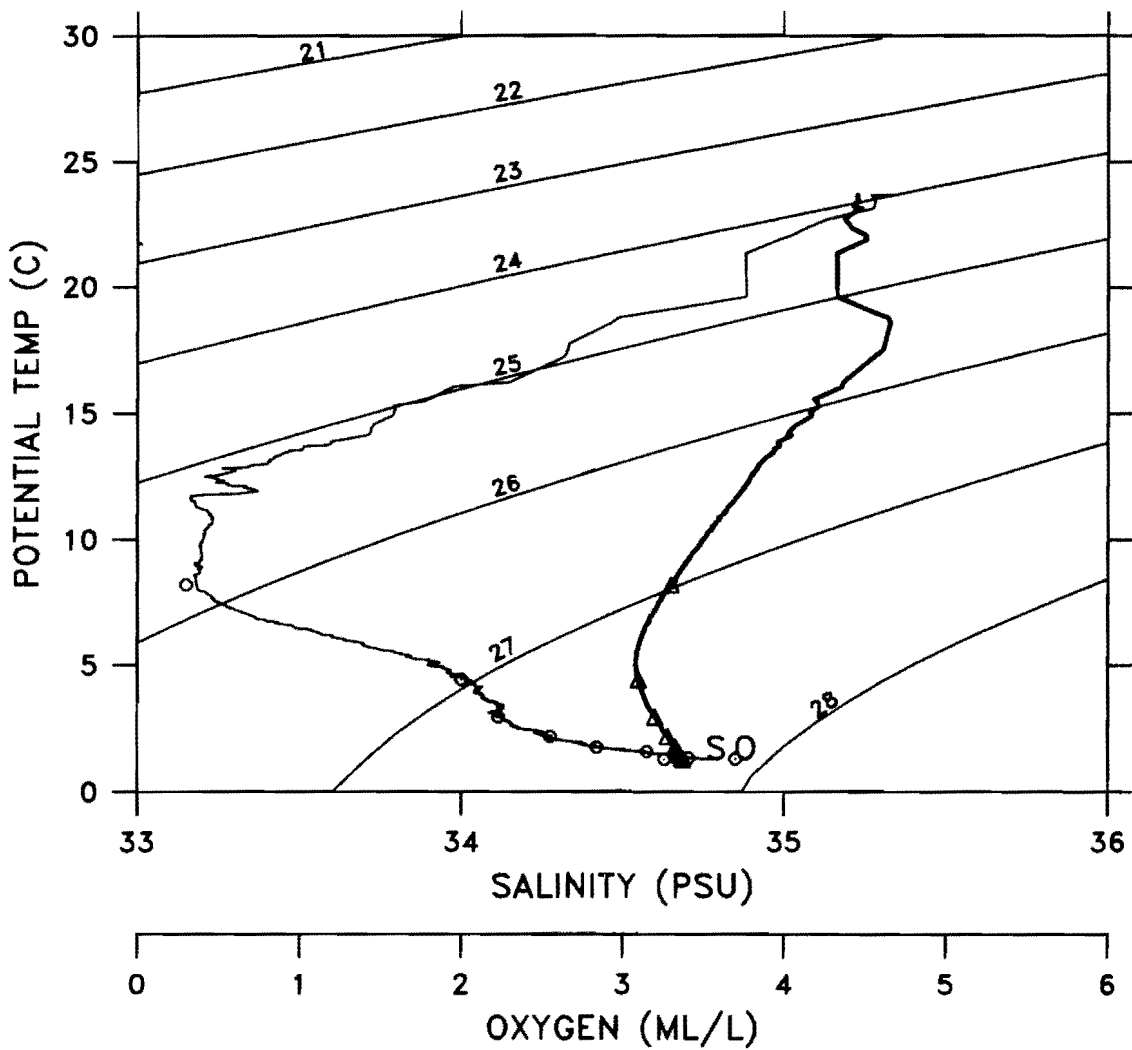


CAST EP2-88-OC -016 DATE 28 JUN 88 TIME 1002 GMT
 LAT 00.1N LONG 114 58.7W WEATHER 2 SEA STATE 3
 BAROMETER 13 WIND DIR 100 T SPD 04 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 21.9 WET 21.0 DEPTH 4047 M

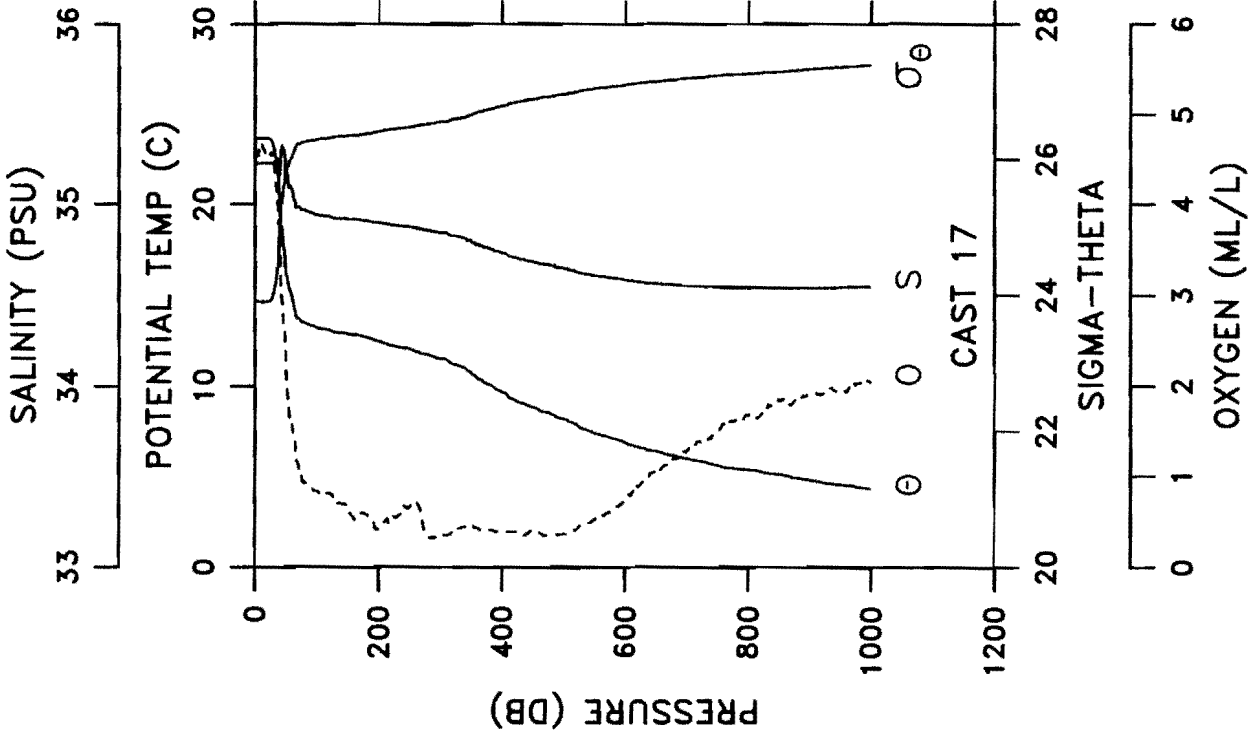


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.080 | 35.114 | 4.55 | 24.283 | 0.000 |
| 10 | 22.042 | 35.109 | 4.67 | 24.291 | 0.036 |
| 20 | 21.817 | 35.113 | 4.55 | 24.356 | 0.072 |
| 30 | 21.755 | 35.124 | 4.50 | 24.381 | 0.108 |
| 40 | 20.950 | 35.017 | 4.27 | 24.522 | 0.143 |
| 50 | 18.425 | 34.944 | 3.31 | 25.125 | 0.173 |
| 60 | 17.332 | 34.922 | 3.05 | 25.376 | 0.201 |
| 70 | 16.445 | 34.890 | 2.92 | 25.562 | 0.226 |
| 80 | 15.167 | 34.868 | 2.77 | 25.834 | 0.249 |
| 90 | 14.519 | 34.897 | 2.58 | 25.998 | 0.270 |
| 100 | 14.388 | 34.902 | 2.46 | 26.030 | 0.290 |
| 110 | 14.318 | 34.903 | 2.40 | 26.046 | 0.310 |
| 120 | 14.157 | 34.912 | 2.28 | 26.087 | 0.330 |
| 130 | 13.964 | 34.913 | 2.09 | 26.128 | 0.349 |
| 140 | 13.765 | 34.908 | 1.91 | 26.166 | 0.368 |
| 150 | 13.566 | 34.910 | 1.75 | 26.208 | 0.386 |
| 160 | 13.195 | 34.894 | 1.70 | 26.272 | 0.405 |
| 170 | 12.889 | 34.888 | 1.88 | 26.329 | 0.422 |
| 180 | 12.855 | 34.891 | 1.93 | 26.338 | 0.439 |
| 190 | 12.854 | 34.892 | 1.97 | 26.339 | 0.457 |
| 200 | 12.842 | 34.892 | 2.03 | 26.342 | 0.474 |
| 250 | 12.132 | 34.859 | 0.88 | 26.455 | 0.558 |
| 300 | 11.521 | 34.819 | 0.60 | 26.540 | 0.638 |
| 301 | 11.513 | 34.818 | 0.60 | 26.540 | 0.639 |

CAST EP2-88-OC -017 DATE 28 JUN 88 TIME 1455 GMT
LAT 05 04.3S LONG 109 47.2W

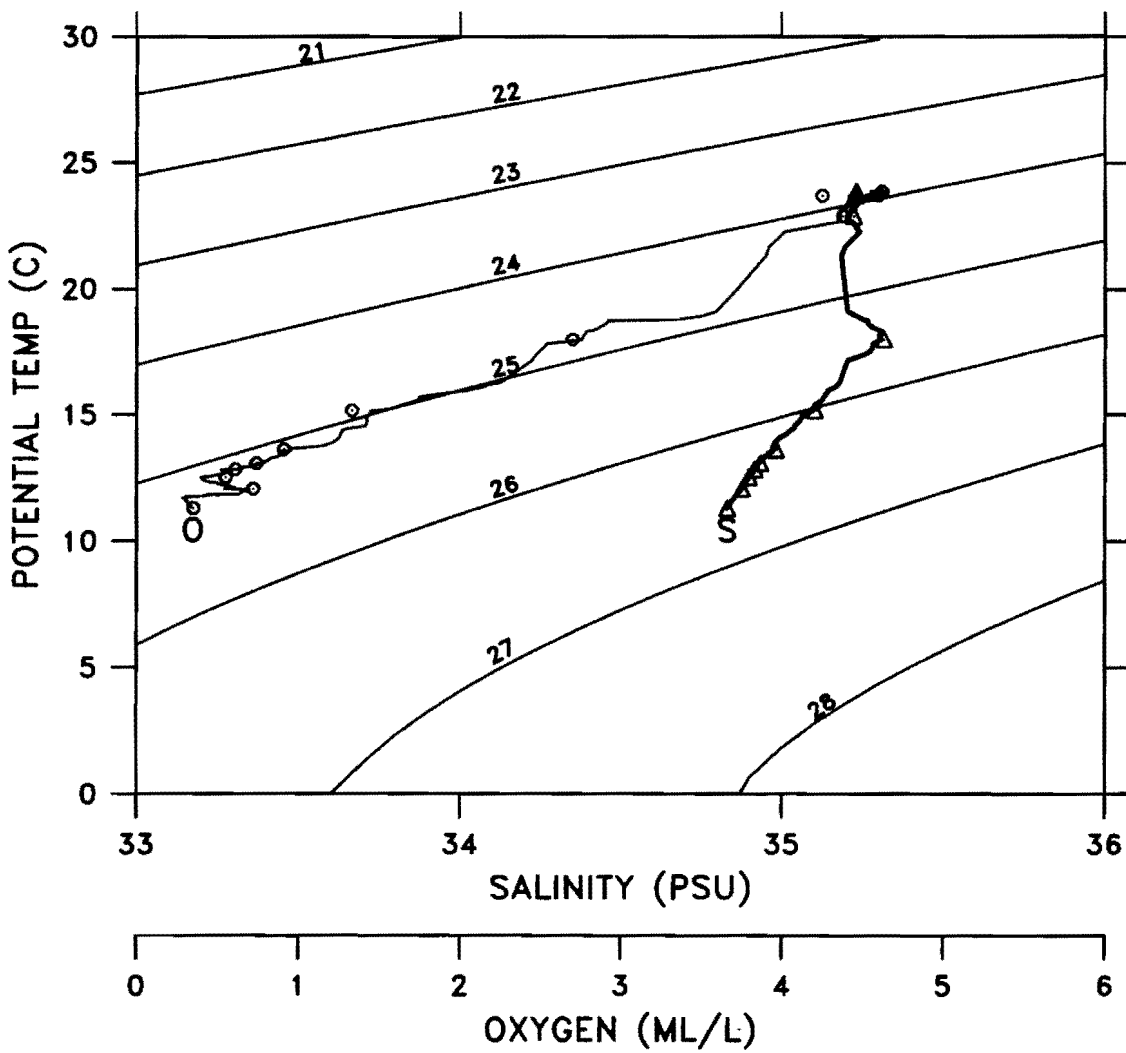


CAST EP2-88-OC -017 DATE 28 JUN 88 TIME 1455 GMT
 LAT 05 04.3S LONG 109 47.2W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 115 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.4 WET 22.0 DEPTH 3470 M

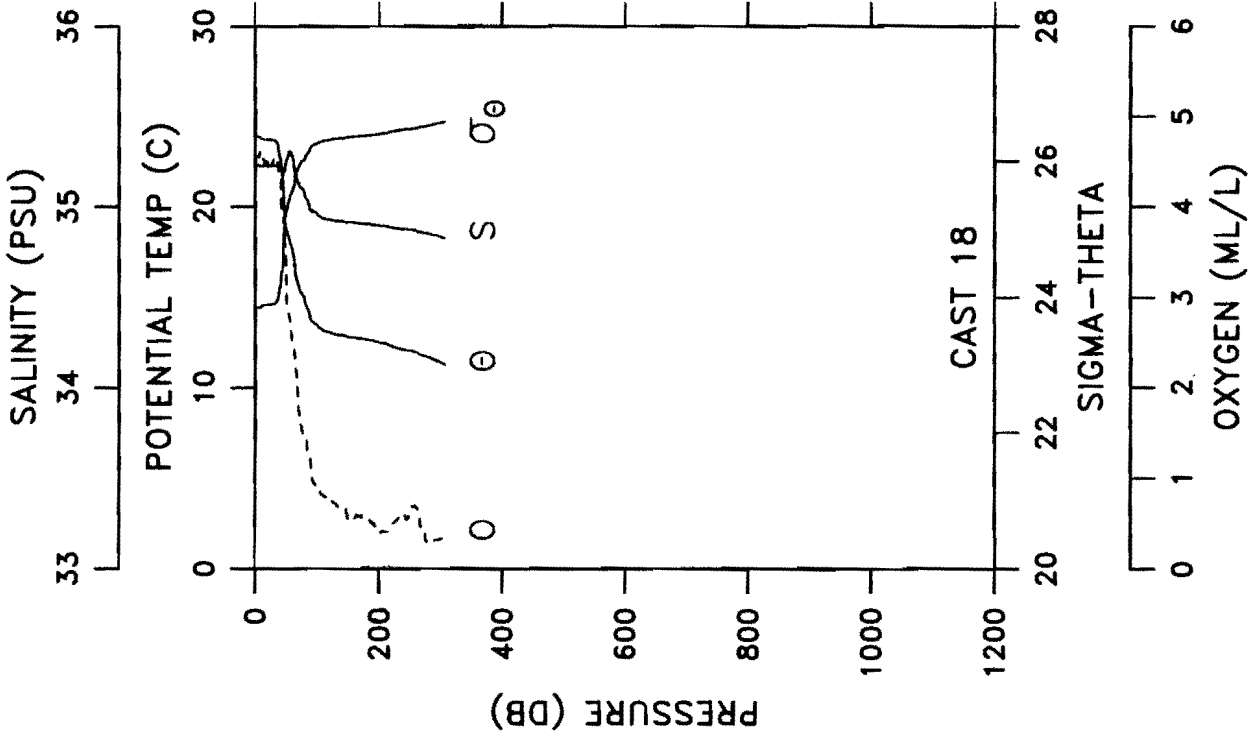


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.697 | 35.227 | 4.54 | 23.904 | 0.000 |
| 10 | 23.700 | 35.227 | 4.66 | 23.904 | 0.040 |
| 20 | 23.696 | 35.227 | 4.54 | 23.905 | 0.080 |
| 30 | 23.236 | 35.216 | 4.55 | 24.030 | 0.120 |
| 40 | 19.633 | 35.164 | 3.77 | 24.984 | 0.156 |
| 50 | 16.223 | 35.181 | 2.30 | 25.837 | 0.181 |
| 60 | 14.912 | 35.086 | 1.58 | 26.058 | 0.201 |
| 70 | 13.718 | 34.984 | 1.14 | 26.234 | 0.220 |
| 80 | 13.512 | 34.969 | 0.94 | 26.265 | 0.238 |
| 90 | 13.344 | 34.952 | 0.88 | 26.286 | 0.255 |
| 100 | 13.217 | 34.940 | 0.84 | 26.303 | 0.273 |
| 110 | 13.150 | 34.935 | 0.82 | 26.315 | 0.290 |
| 120 | 13.096 | 34.933 | 0.82 | 26.322 | 0.308 |
| 130 | 12.959 | 34.923 | 0.72 | 26.342 | 0.325 |
| 140 | 12.927 | 34.920 | 0.70 | 26.346 | 0.342 |
| 150 | 12.866 | 34.916 | 0.67 | 26.356 | 0.359 |
| 160 | 12.826 | 34.916 | 0.53 | 26.363 | 0.376 |
| 170 | 12.790 | 34.913 | 0.58 | 26.368 | 0.393 |
| 180 | 12.685 | 34.907 | 0.58 | 26.384 | 0.410 |
| 190 | 12.584 | 34.904 | 0.51 | 26.402 | 0.426 |
| 200 | 12.477 | 34.897 | 0.44 | 26.417 | 0.443 |
| 250 | 12.051 | 34.874 | 0.67 | 26.482 | 0.524 |
| 300 | 11.507 | 34.843 | 0.34 | 26.561 | 0.603 |
| 350 | 10.785 | 34.799 | 0.46 | 26.658 | 0.678 |
| 400 | 9.672 | 34.731 | 0.39 | 26.798 | 0.748 |
| 450 | 8.850 | 34.684 | 0.38 | 26.895 | 0.812 |
| 500 | 8.207 | 34.650 | 0.36 | 26.968 | 0.872 |
| 550 | 7.420 | 34.611 | 0.52 | 27.053 | 0.929 |
| 600 | 6.896 | 34.583 | 0.73 | 27.105 | 0.982 |
| 650 | 6.424 | 34.567 | 1.07 | 27.156 | 1.033 |
| 700 | 5.994 | 34.556 | 1.29 | 27.203 | 1.082 |
| 750 | 5.623 | 34.546 | 1.49 | 27.242 | 1.129 |
| 800 | 5.368 | 34.543 | 1.68 | 27.270 | 1.174 |
| 900 | 4.809 | 34.542 | 1.93 | 27.334 | 1.261 |
| 1000 | 4.347 | 34.550 | 2.05 | 27.392 | 1.342 |
| 1500 | 2.944 | 34.601 | 2.23 | 27.572 | 1.688 |
| 2000 | 2.181 | 34.639 | 2.54 | 27.668 | 1.971 |
| 2500 | 1.737 | 34.663 | 2.88 | 27.722 | 2.223 |
| 3000 | 1.469 | 34.677 | 3.26 | 27.753 | 2.455 |
| 3500 | 1.292 | 34.686 | 3.56 | 27.773 | 2.678 |
| 3548 | 1.292 | 34.686 | 3.56 | 27.773 | 2.699 |

CAST EP2-88-OC -018 DATE 29 JUN 88 TIME 1855 GMT
LAT 05 08.4S LONG 109 49.1W

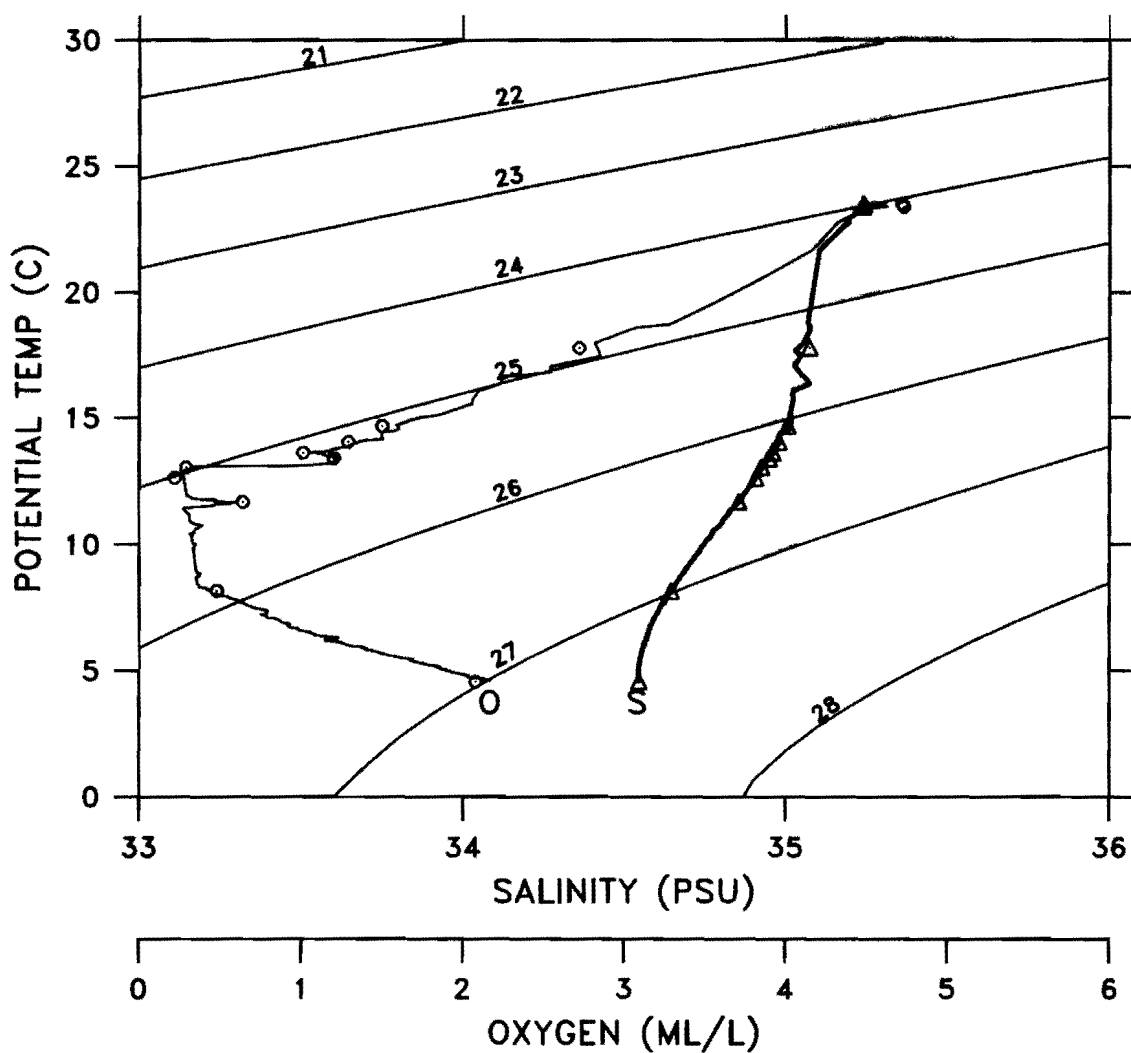


CAST EP2-88-0C -018 DATE 29 JUN 88 TIME 1855 GMT
 LAT 05 08.4S LONG 109 49.1W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 111 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 24.2 WET 22.6 DEPTH 3470 M

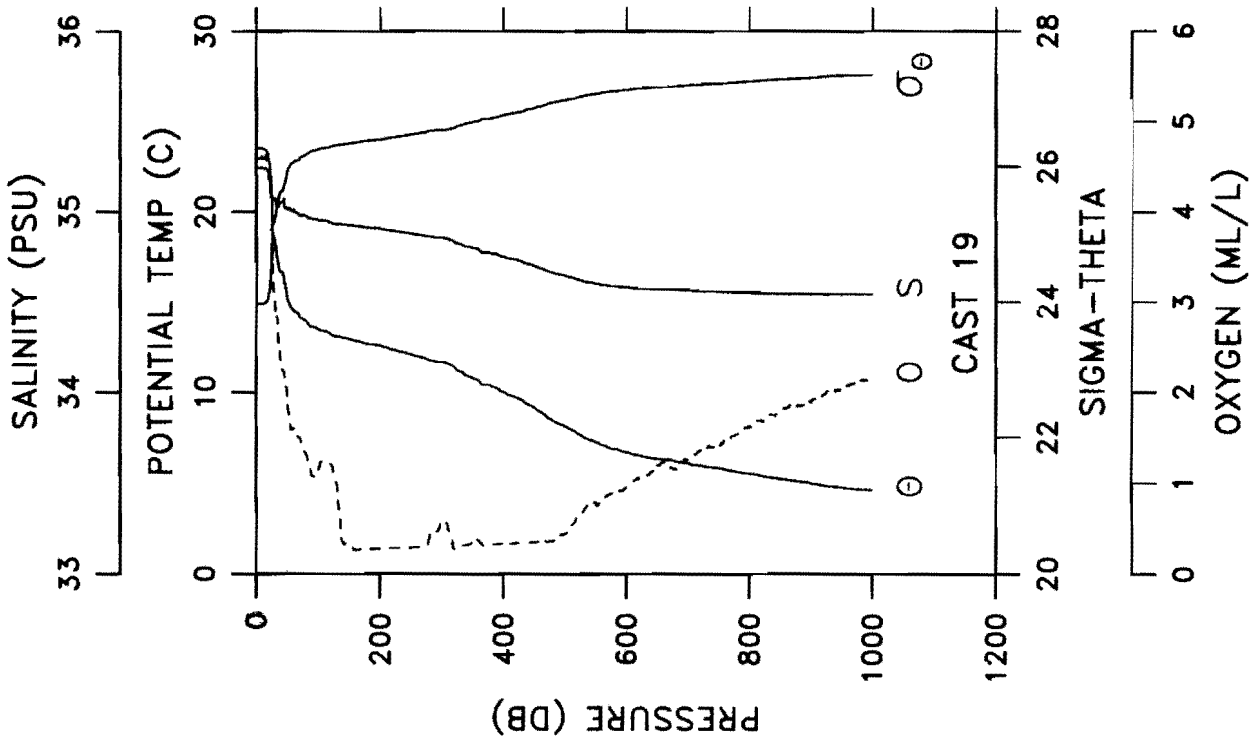


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.885 | 35.228 | 4.55 | 23.849 | 0.000 |
| 10 | 23.770 | 35.224 | 4.60 | 23.881 | 0.040 |
| 20 | 23.705 | 35.226 | 4.50 | 23.901 | 0.080 |
| 30 | 23.670 | 35.226 | 4.53 | 23.911 | 0.121 |
| 40 | 22.747 | 35.203 | 4.36 | 24.161 | 0.160 |
| 50 | 18.790 | 35.250 | 3.32 | 25.267 | 0.193 |
| 60 | 17.662 | 35.280 | 2.52 | 25.570 | 0.218 |
| 70 | 15.711 | 35.131 | 1.76 | 25.915 | 0.241 |
| 80 | 14.887 | 35.062 | 1.42 | 26.045 | 0.261 |
| 90 | 13.776 | 34.978 | 1.15 | 26.218 | 0.280 |
| 100 | 13.507 | 34.963 | 0.88 | 26.262 | 0.298 |
| 110 | 13.177 | 34.935 | 0.82 | 26.308 | 0.316 |
| 120 | 13.088 | 34.929 | 0.79 | 26.321 | 0.333 |
| 130 | 12.957 | 34.921 | 0.72 | 26.341 | 0.350 |
| 140 | 12.929 | 34.920 | 0.68 | 26.346 | 0.367 |
| 150 | 12.822 | 34.914 | 0.55 | 26.362 | 0.384 |
| 160 | 12.800 | 34.913 | 0.55 | 26.366 | 0.401 |
| 170 | 12.723 | 34.908 | 0.57 | 26.378 | 0.418 |
| 180 | 12.678 | 34.906 | 0.55 | 26.384 | 0.435 |
| 190 | 12.617 | 34.902 | 0.50 | 26.394 | 0.452 |
| 200 | 12.525 | 34.897 | 0.40 | 26.408 | 0.468 |
| 250 | 12.050 | 34.875 | 0.64 | 26.483 | 0.550 |
| 300 | 11.386 | 34.834 | 0.33 | 26.576 | 0.629 |
| 307 | 11.294 | 34.828 | 0.35 | 26.589 | 0.639 |

CAST EP2-88-OC -019 DATE 30 JUN 88 TIME 0235 GMT
LAT 04 00.3S LONG 109 59.5W

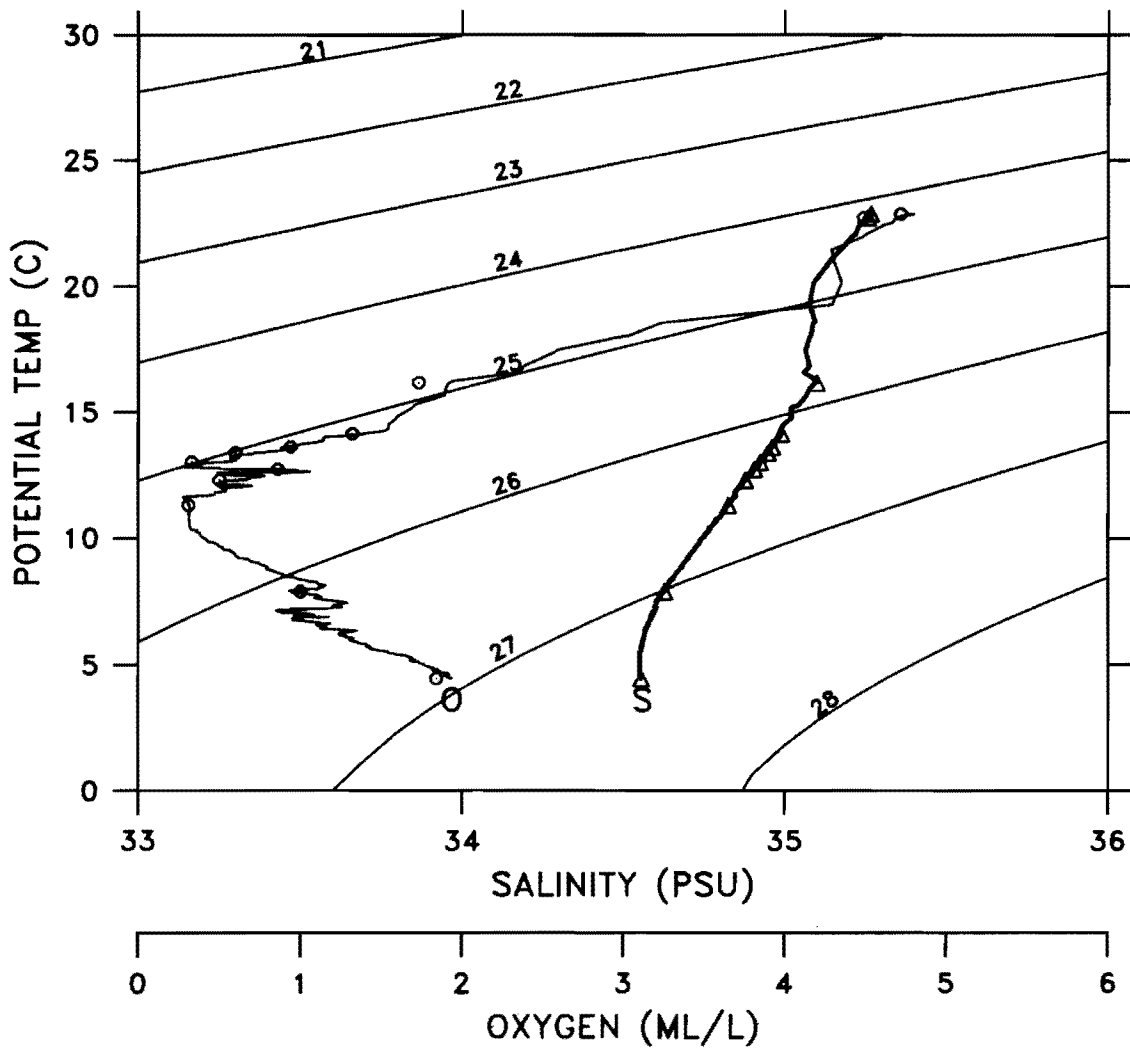


CAST EP2-88-OC -019 DATE 30 JUN 88 TIME 0235 GMT
 LAT 04 00.35 LONG 109 59.5W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 120 T SPD 13 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 23.2 WET 21.8 DEPTH 3621 M

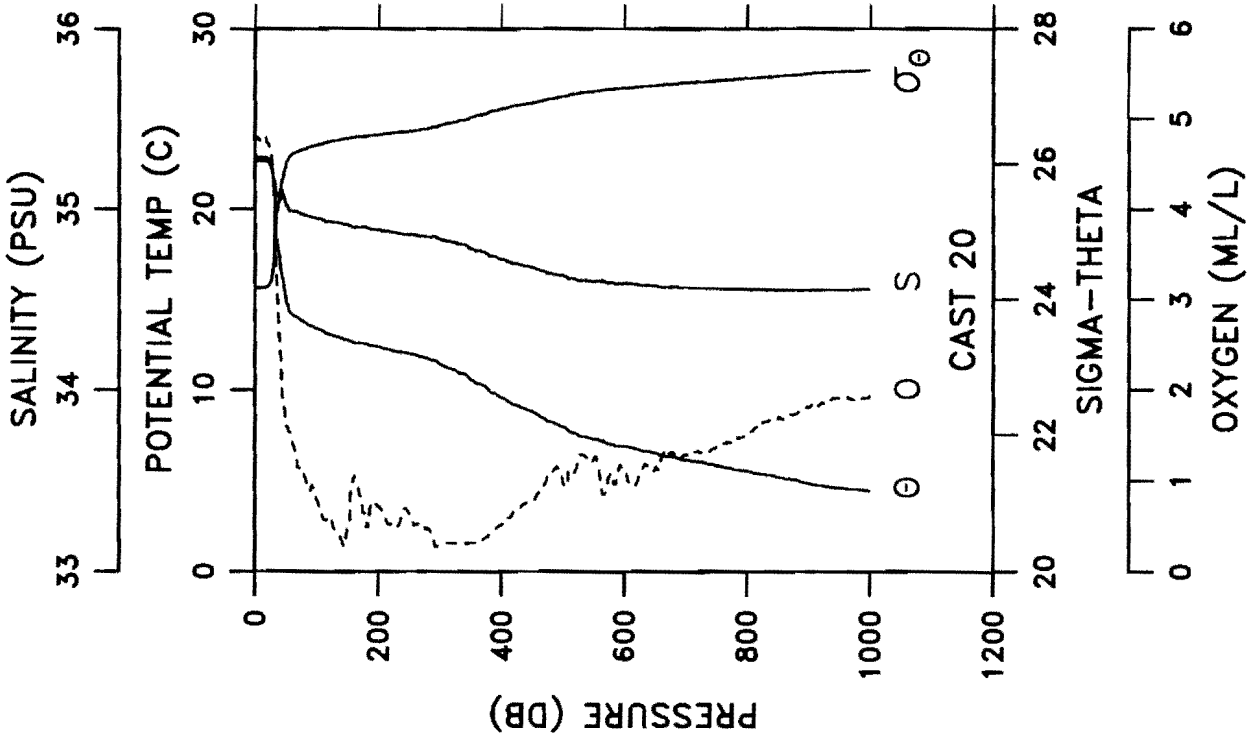


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.512 | 35.243 | 4.58 | 23.971 | 0.000 |
| 10 | 23.508 | 35.243 | 4.62 | 23.972 | 0.039 |
| 20 | 22.873 | 35.189 | 4.35 | 24.115 | 0.078 |
| 30 | 18.494 | 35.076 | 3.02 | 25.208 | 0.111 |
| 40 | 16.654 | 35.051 | 2.35 | 25.636 | 0.136 |
| 50 | 15.298 | 35.016 | 1.94 | 25.920 | 0.159 |
| 60 | 14.558 | 35.004 | 1.60 | 26.072 | 0.179 |
| 70 | 14.196 | 34.977 | 1.50 | 26.129 | 0.198 |
| 80 | 13.990 | 34.980 | 1.33 | 26.175 | 0.217 |
| 90 | 13.648 | 34.960 | 1.08 | 26.230 | 0.235 |
| 100 | 13.523 | 34.954 | 1.14 | 26.251 | 0.253 |
| 110 | 13.414 | 34.950 | 1.23 | 26.271 | 0.271 |
| 120 | 13.258 | 34.938 | 1.20 | 26.293 | 0.288 |
| 130 | 13.119 | 34.929 | 0.99 | 26.315 | 0.306 |
| 140 | 13.060 | 34.929 | 0.35 | 26.326 | 0.323 |
| 150 | 12.987 | 34.926 | 0.33 | 26.339 | 0.340 |
| 160 | 12.893 | 34.921 | 0.26 | 26.353 | 0.358 |
| 170 | 12.804 | 34.915 | 0.27 | 26.367 | 0.375 |
| 180 | 12.715 | 34.912 | 0.27 | 26.382 | 0.391 |
| 190 | 12.664 | 34.909 | 0.27 | 26.390 | 0.408 |
| 200 | 12.617 | 34.906 | 0.27 | 26.397 | 0.425 |
| 250 | 12.136 | 34.880 | 0.29 | 26.470 | 0.507 |
| 300 | 11.684 | 34.856 | 0.58 | 26.538 | 0.587 |
| 350 | 10.816 | 34.799 | 0.34 | 26.653 | 0.663 |
| 400 | 10.024 | 34.750 | 0.33 | 26.753 | 0.733 |
| 450 | 9.156 | 34.699 | 0.35 | 26.858 | 0.800 |
| 500 | 8.114 | 34.645 | 0.44 | 26.978 | 0.861 |
| 550 | 7.228 | 34.601 | 0.79 | 27.073 | 0.917 |
| 600 | 6.680 | 34.581 | 0.96 | 27.132 | 0.969 |
| 650 | 6.327 | 34.571 | 1.20 | 27.171 | 1.019 |
| 700 | 6.082 | 34.565 | 1.26 | 27.198 | 1.067 |
| 750 | 5.824 | 34.558 | 1.40 | 27.226 | 1.115 |
| 800 | 5.514 | 34.551 | 1.63 | 27.259 | 1.161 |
| 900 | 4.992 | 34.544 | 1.89 | 27.315 | 1.249 |
| 1000 | 4.609 | 34.545 | 2.17 | 27.359 | 1.333 |
| 1003 | 4.591 | 34.544 | 2.17 | 27.360 | 1.335 |

CAST EP2-88-OC -020 DATE 30 JUN 88 TIME 0833 GMT
LAT 02 59.3S LONG 110 00.3W

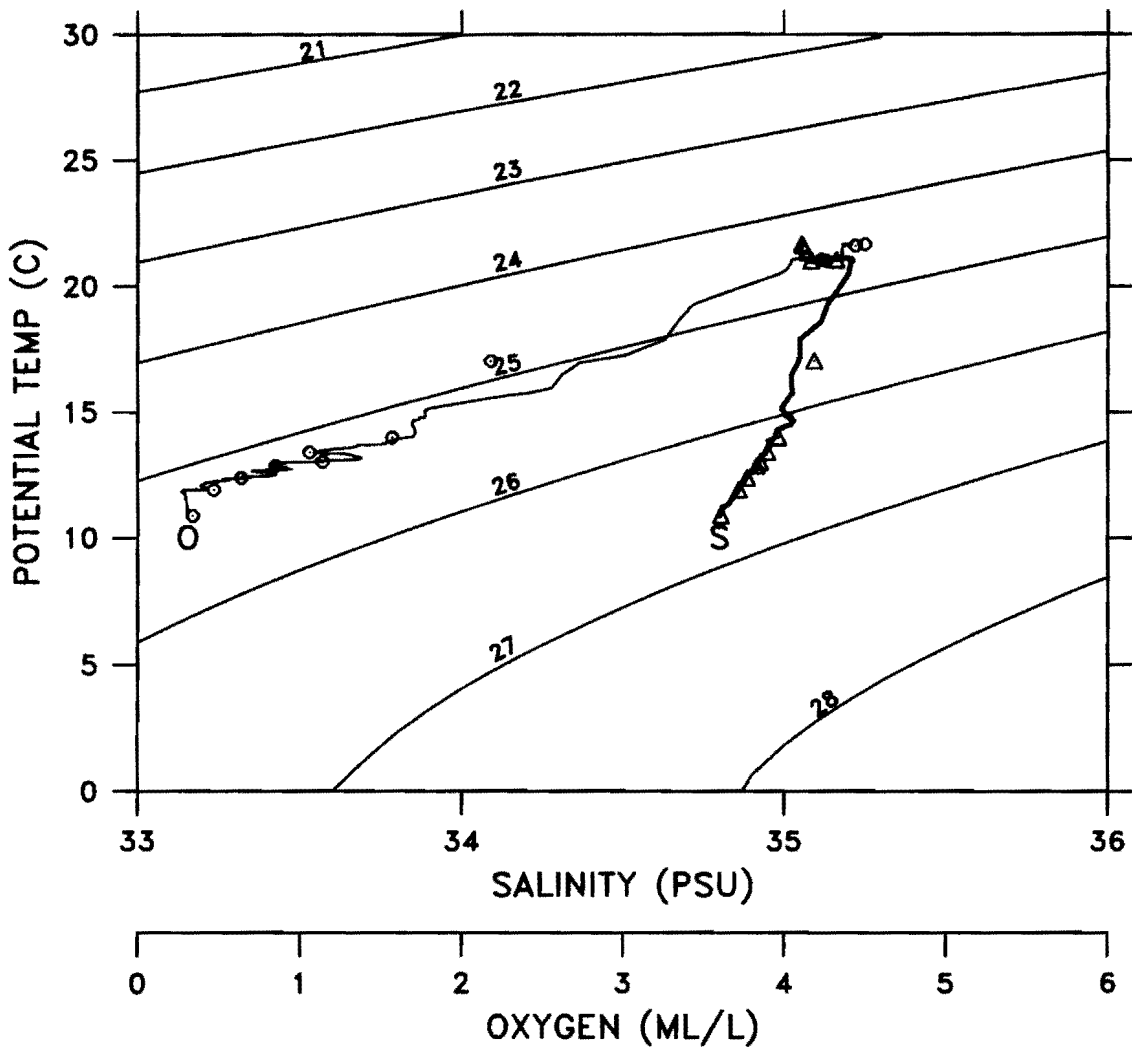


CAST EP2-88-0C -020 DATE 30 JUN 88 TIME 0833 GMT
 LAT 02 59.3S LONG 110 00.3W WEATHER 2 SEA STATE 3
 BAROMETER 14 WIND DIR 115 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 22.7 WET 21.5 DEPTH 3793 M

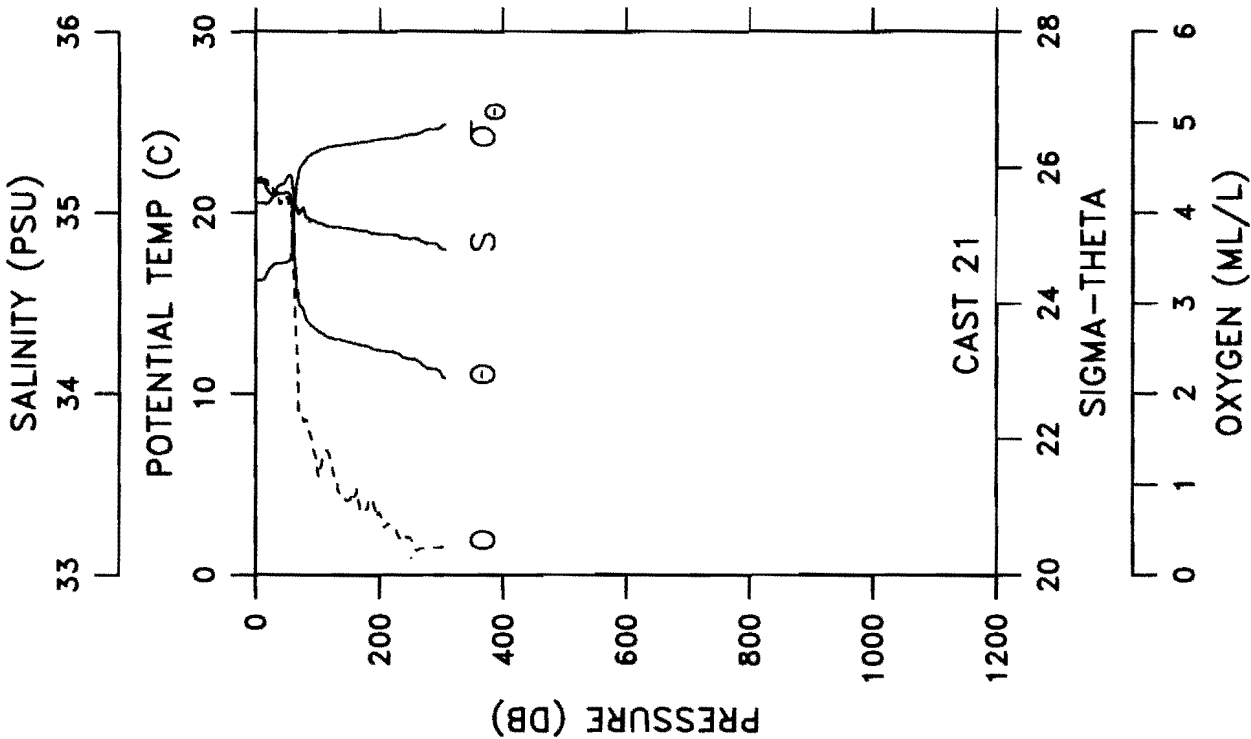


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.879 | 35.269 | 4.80 | 24.174 | 0.000 |
| 10 | 22.884 | 35.269 | 4.76 | 24.172 | 0.037 |
| 20 | 22.824 | 35.263 | 4.73 | 24.185 | 0.075 |
| 30 | 21.454 | 35.175 | 4.29 | 24.504 | 0.111 |
| 40 | 17.389 | 35.065 | 2.57 | 25.472 | 0.140 |
| 50 | 15.191 | 35.020 | 1.70 | 25.946 | 0.162 |
| 60 | 14.166 | 34.990 | 1.44 | 26.145 | 0.181 |
| 70 | 13.962 | 34.981 | 1.15 | 26.181 | 0.200 |
| 80 | 13.744 | 34.962 | 1.07 | 26.212 | 0.216 |
| 90 | 13.534 | 34.956 | 0.91 | 26.251 | 0.236 |
| 100 | 13.394 | 34.948 | 0.80 | 26.273 | 0.254 |
| 110 | 13.245 | 34.939 | 0.60 | 26.297 | 0.271 |
| 120 | 13.079 | 34.930 | 0.59 | 26.323 | 0.289 |
| 130 | 12.977 | 34.925 | 0.46 | 26.340 | 0.306 |
| 140 | 12.863 | 34.920 | 0.35 | 26.359 | 0.323 |
| 150 | 12.760 | 34.913 | 0.48 | 26.374 | 0.340 |
| 160 | 12.623 | 34.898 | 1.03 | 26.390 | 0.357 |
| 170 | 12.581 | 34.897 | 0.83 | 26.397 | 0.373 |
| 180 | 12.557 | 34.899 | 0.56 | 26.403 | 0.390 |
| 190 | 12.442 | 34.888 | 0.77 | 26.417 | 0.407 |
| 200 | 12.387 | 34.884 | 0.72 | 26.425 | 0.423 |
| 250 | 12.008 | 34.857 | 0.64 | 26.477 | 0.504 |
| 300 | 11.417 | 34.831 | 0.30 | 26.568 | 0.583 |
| 350 | 10.571 | 34.780 | 0.32 | 26.681 | 0.658 |
| 400 | 9.576 | 34.721 | 0.52 | 26.806 | 0.727 |
| 450 | 8.816 | 34.676 | 0.80 | 26.894 | 0.791 |
| 500 | 7.953 | 34.631 | 0.98 | 26.991 | 0.850 |
| 550 | 7.282 | 34.597 | 1.23 | 27.062 | 0.906 |
| 600 | 6.877 | 34.587 | 1.13 | 27.111 | 0.959 |
| 650 | 6.507 | 34.577 | 1.14 | 27.153 | 1.010 |
| 700 | 6.131 | 34.566 | 1.28 | 27.193 | 1.059 |
| 750 | 5.836 | 34.560 | 1.37 | 27.225 | 1.107 |
| 800 | 5.539 | 34.555 | 1.50 | 27.259 | 1.153 |
| 900 | 4.870 | 34.552 | 1.81 | 27.335 | 1.241 |
| 1000 | 4.455 | 34.556 | 1.92 | 27.385 | 1.322 |
| 1002 | 4.447 | 34.556 | 1.94 | 27.385 | 1.324 |

CAST EP2-88-OC -021 DATE 30 JUN 88 TIME 1403 GMT
LAT 02 02.8S LONG 109 56.6W

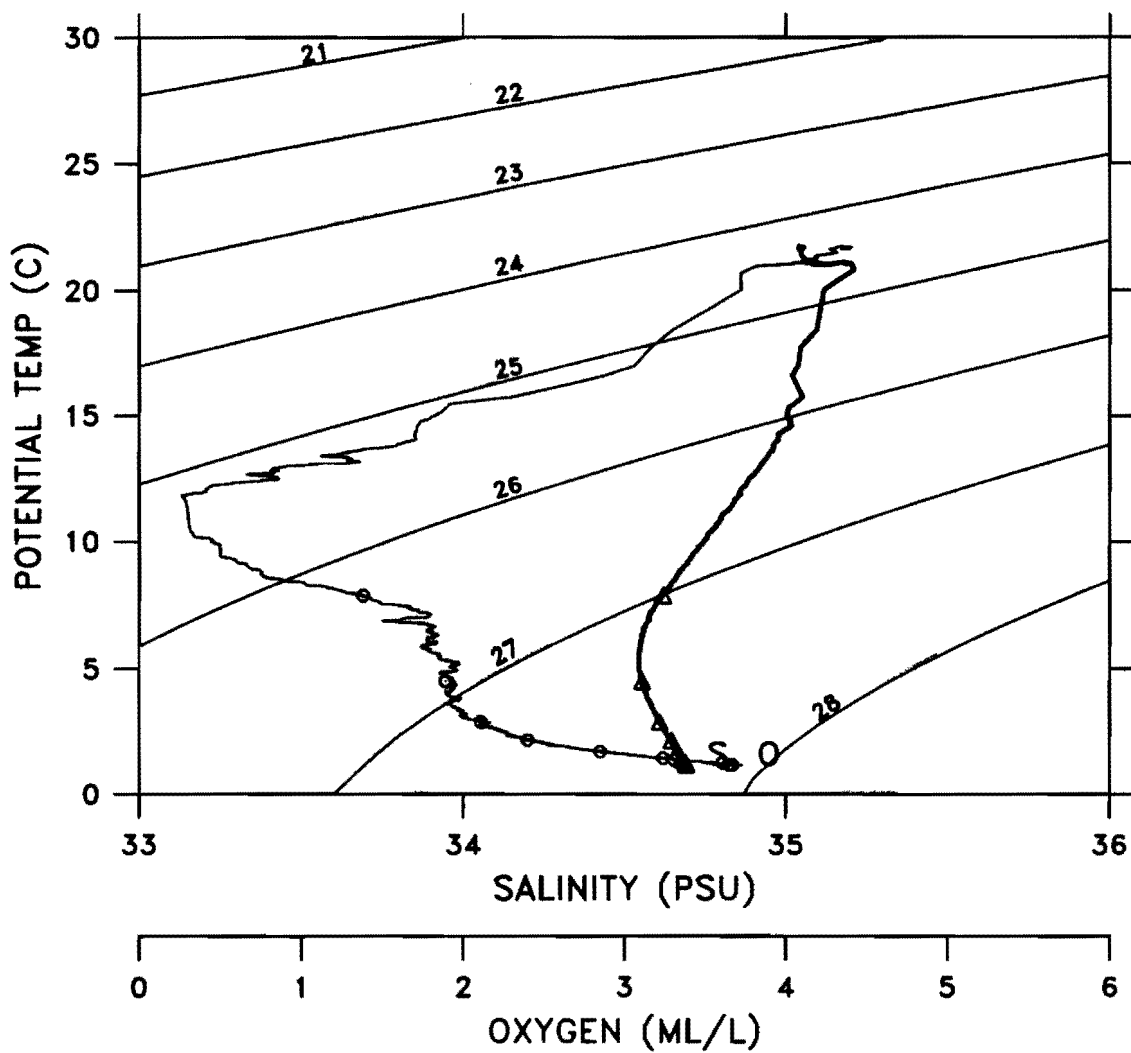


CAST EP2-88-0C -021 DATE 30 JUN 88 TIME 1403 GMT
 LAT 02 02.8S LONG 109 56.6W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 080 T SPD 10 KT VISIBILITY 8
 CLOUD 7 AMOUNT 5 DRY 21.7 WET 21.0 DEPTH 3967 M

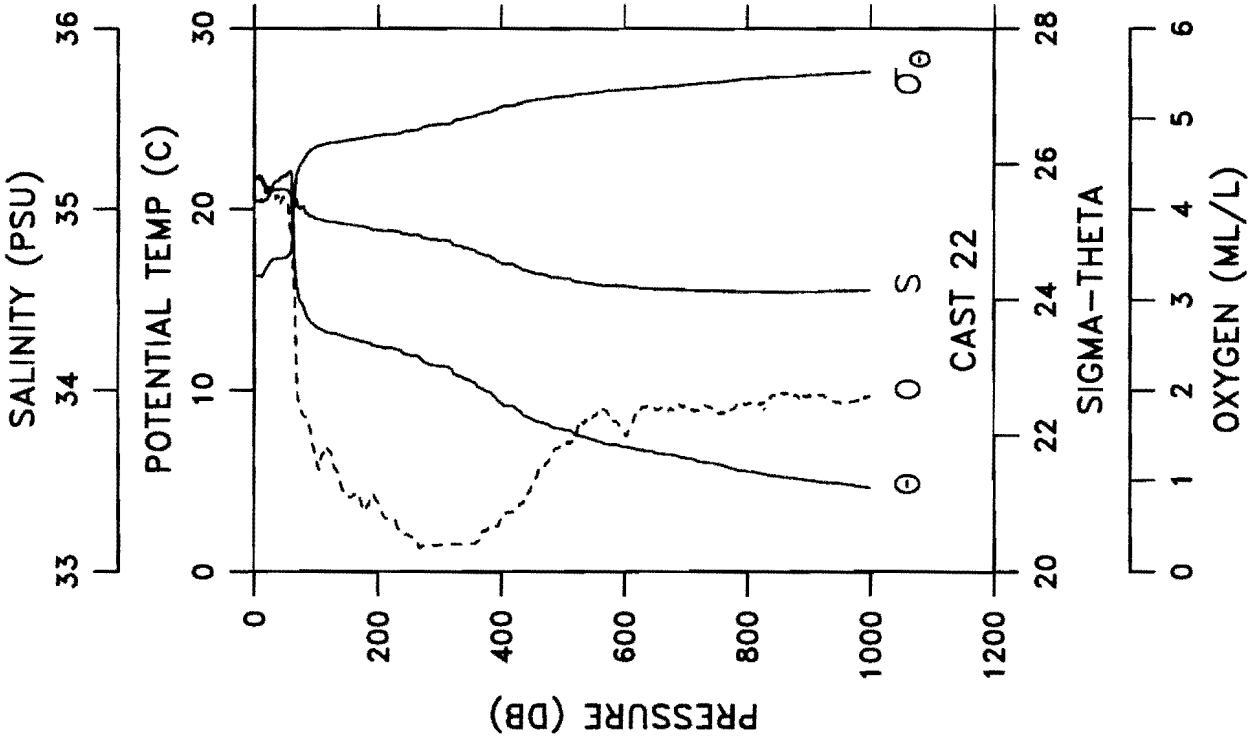


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 21.688 | 35.054 | 4.38 | 24.347 | 0.000 |
| 10 | 21.676 | 35.055 | 4.38 | 24.351 | 0.036 |
| 20 | 21.191 | 35.053 | 4.32 | 24.484 | 0.071 |
| 30 | 20.965 | 35.103 | 4.15 | 24.583 | 0.105 |
| 40 | 21.055 | 35.153 | 4.10 | 24.597 | 0.138 |
| 50 | 21.113 | 35.191 | 4.16 | 24.610 | 0.172 |
| 60 | 19.271 | 35.134 | 3.43 | 25.056 | 0.204 |
| 70 | 15.045 | 34.999 | 1.77 | 25.962 | 0.228 |
| 80 | 14.302 | 34.978 | 1.71 | 26.107 | 0.248 |
| 90 | 13.746 | 34.961 | 1.51 | 26.211 | 0.267 |
| 100 | 13.480 | 34.943 | 1.12 | 26.252 | 0.285 |
| 110 | 13.271 | 34.933 | 1.33 | 26.287 | 0.302 |
| 120 | 13.094 | 34.924 | 1.27 | 26.316 | 0.320 |
| 130 | 13.019 | 34.922 | 1.08 | 26.329 | 0.337 |
| 140 | 12.956 | 34.918 | 0.86 | 26.339 | 0.354 |
| 150 | 12.856 | 34.913 | 0.83 | 26.355 | 0.371 |
| 160 | 12.779 | 34.905 | 0.88 | 26.364 | 0.388 |
| 170 | 12.675 | 34.902 | 0.71 | 26.382 | 0.405 |
| 180 | 12.622 | 34.896 | 0.73 | 26.388 | 0.422 |
| 190 | 12.457 | 34.885 | 0.81 | 26.412 | 0.439 |
| 200 | 12.388 | 34.881 | 0.69 | 26.423 | 0.455 |
| 250 | 11.918 | 34.857 | 0.41 | 26.494 | 0.537 |
| 300 | 11.058 | 34.802 | 0.31 | 26.611 | 0.614 |
| 306 | 10.874 | 34.800 | 0.31 | 26.643 | 0.623 |

CAST EP2-88-OC -022 DATE 30 JUN 88 TIME 1937 GMT
LAT 02 02.7S LONG 109 57.5W



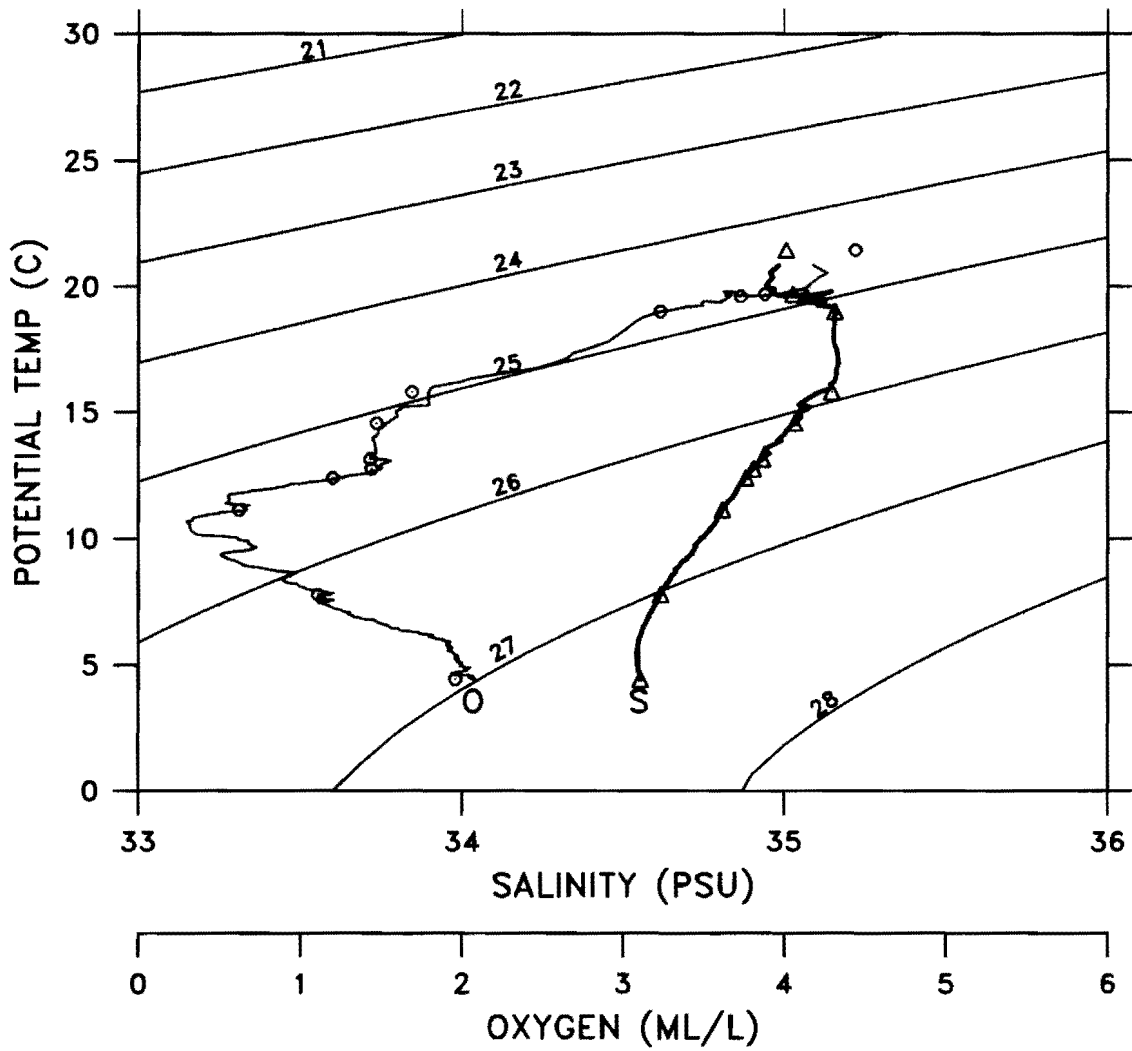
CAST EP2-88-0C -022 DATE 30 JUN 88 TIME 1937 GMT
 LAT 02.75S LONG 109 57.5W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 100 T SPD 07 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 24.4 WET 22.0 DEPTH 3927 M



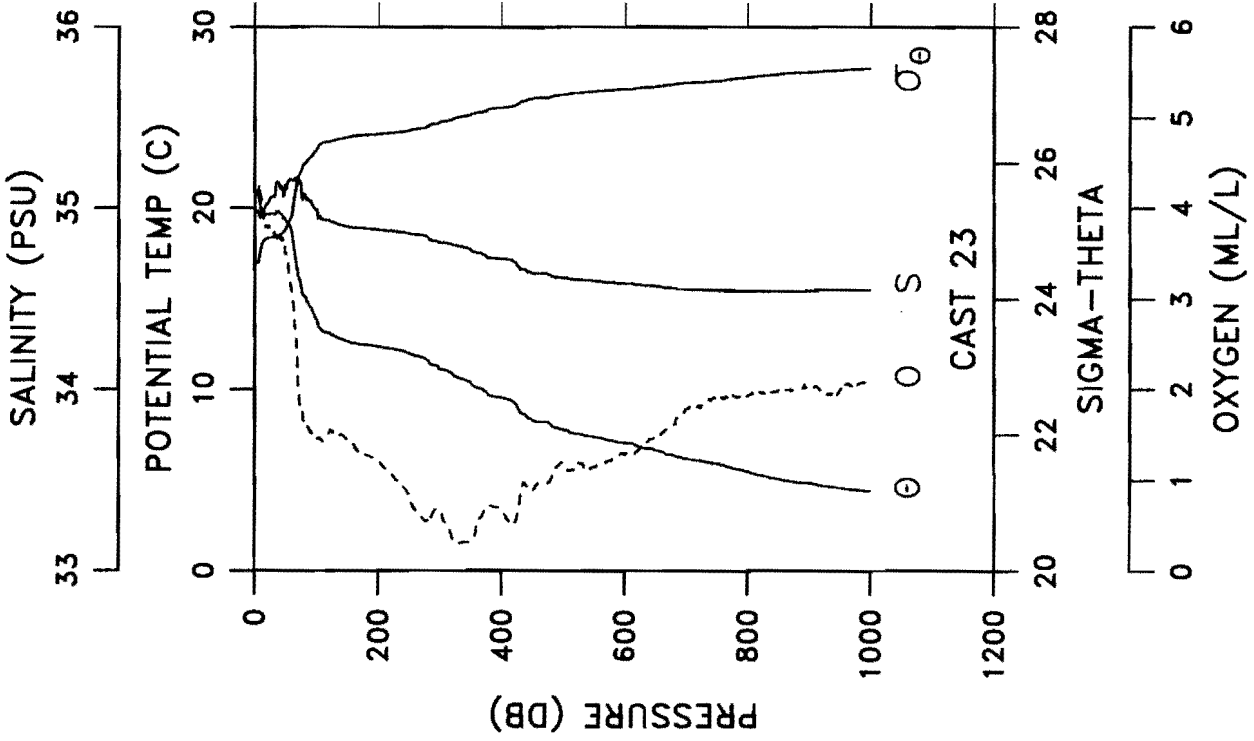
| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 21.681 | 35.045 | 4.35 | 24.343 | 0.000 |
| 10 | 21.653 | 35.051 | 4.40 | 24.355 | 0.036 |
| 20 | 21.263 | 35.054 | 4.19 | 24.464 | 0.071 |
| 30 | 21.020 | 35.137 | 4.18 | 24.594 | 0.105 |
| 40 | 21.066 | 35.161 | 4.09 | 24.600 | 0.139 |
| 50 | 21.082 | 35.185 | 4.07 | 24.613 | 0.172 |
| 60 | 20.671 | 35.194 | 3.72 | 24.732 | 0.205 |
| 70 | 15.479 | 35.028 | 1.92 | 25.888 | 0.230 |
| 80 | 14.596 | 35.020 | 1.72 | 26.076 | 0.251 |
| 90 | 13.795 | 34.961 | 1.58 | 26.201 | 0.270 |
| 100 | 13.481 | 34.947 | 1.24 | 26.255 | 0.288 |
| 110 | 13.320 | 34.940 | 1.29 | 26.282 | 0.305 |
| 120 | 13.161 | 34.930 | 1.35 | 26.307 | 0.323 |
| 130 | 13.112 | 34.929 | 1.14 | 26.316 | 0.340 |
| 140 | 13.013 | 34.923 | 0.95 | 26.331 | 0.358 |
| 150 | 12.902 | 34.916 | 0.83 | 26.348 | 0.375 |
| 160 | 12.829 | 34.912 | 0.84 | 26.360 | 0.392 |
| 170 | 12.733 | 34.906 | 0.84 | 26.374 | 0.409 |
| 180 | 12.653 | 34.902 | 0.69 | 26.386 | 0.426 |
| 190 | 12.537 | 34.889 | 0.85 | 26.399 | 0.442 |
| 200 | 12.426 | 34.884 | 0.76 | 26.417 | 0.459 |
| 250 | 11.971 | 34.861 | 0.41 | 26.487 | 0.541 |
| 300 | 11.322 | 34.828 | 0.30 | 26.583 | 0.619 |
| 350 | 10.535 | 34.779 | 0.31 | 26.687 | 0.692 |
| 400 | 9.277 | 34.702 | 0.60 | 26.840 | 0.761 |
| 450 | 8.416 | 34.651 | 0.97 | 26.937 | 0.823 |
| 500 | 7.843 | 34.616 | 1.39 | 26.996 | 0.881 |
| 550 | 7.295 | 34.587 | 1.73 | 27.053 | 0.937 |
| 600 | 6.882 | 34.576 | 1.53 | 27.101 | 0.991 |
| 650 | 6.537 | 34.559 | 1.80 | 27.134 | 1.043 |
| 700 | 6.251 | 34.554 | 1.82 | 27.168 | 1.093 |
| 750 | 5.910 | 34.550 | 1.77 | 27.209 | 1.142 |
| 800 | 5.502 | 34.546 | 1.84 | 27.256 | 1.188 |
| 900 | 5.001 | 34.546 | 1.95 | 27.316 | 1.277 |
| 1000 | 4.607 | 34.551 | 1.94 | 27.364 | 1.361 |
| 1500 | 2.899 | 34.606 | 2.12 | 27.580 | 1.713 |
| 2000 | 2.150 | 34.643 | 2.41 | 27.674 | 1.991 |
| 2500 | 1.696 | 34.662 | 2.83 | 27.724 | 2.239 |
| 3000 | 1.433 | 34.675 | 3.21 | 27.754 | 2.470 |
| 3500 | 1.249 | 34.686 | 3.53 | 27.776 | 2.696 |
| 3990 | 1.161 | 34.691 | 3.70 | 27.786 | 2.910 |

CAST EP2-88-OC -023 DATE 01 JUL 88 TIME 0117 GMT

LAT 01 29.9S LONG 109 59.9W

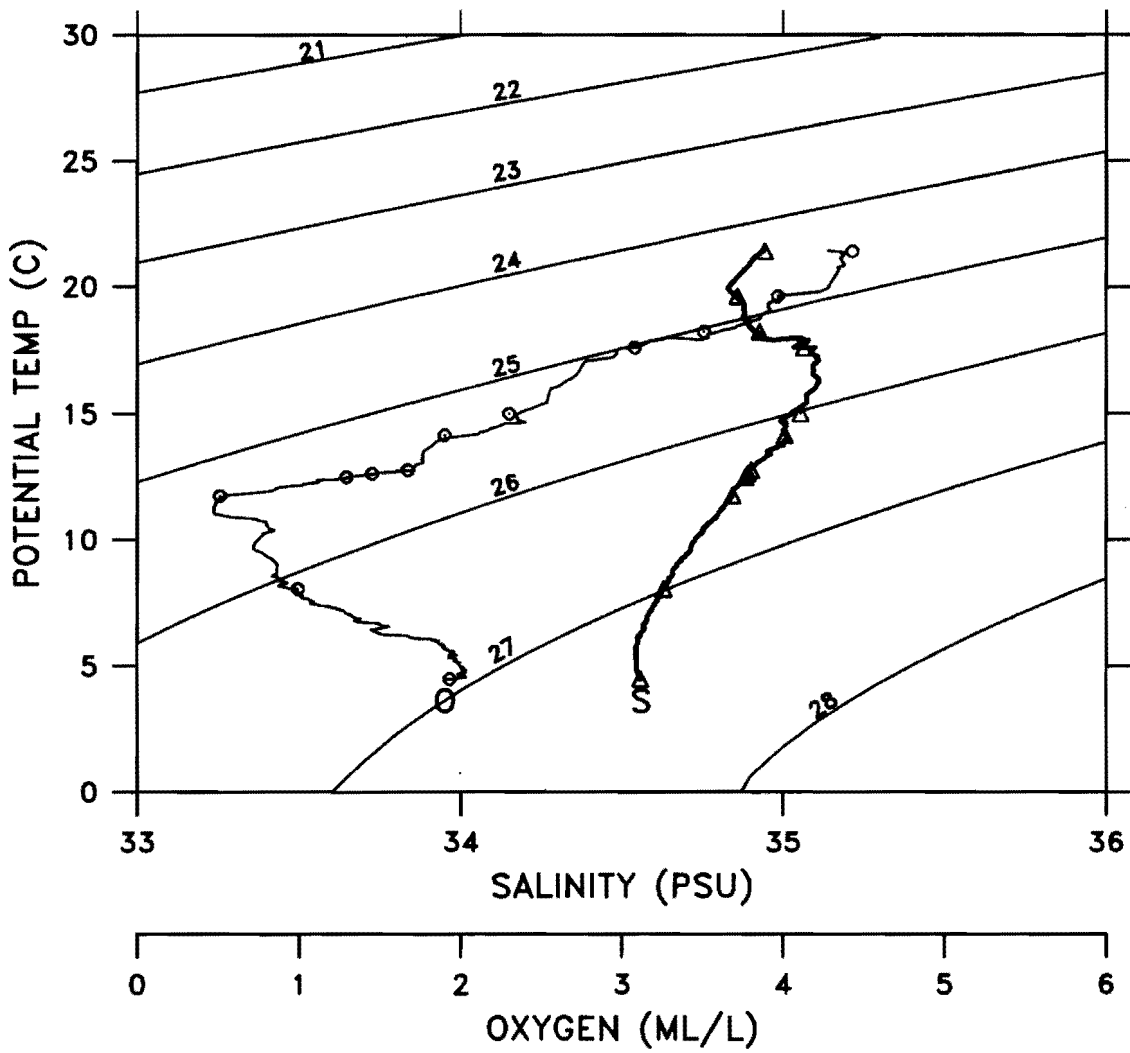


CAST EP2-88-OC -023 DATE 01 JUL 88 TIME 0117 GMT
 LAT 01 29.9S LONG 109 59.9W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 115 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 22.2 WET 21.2 DEPTH 3895 M

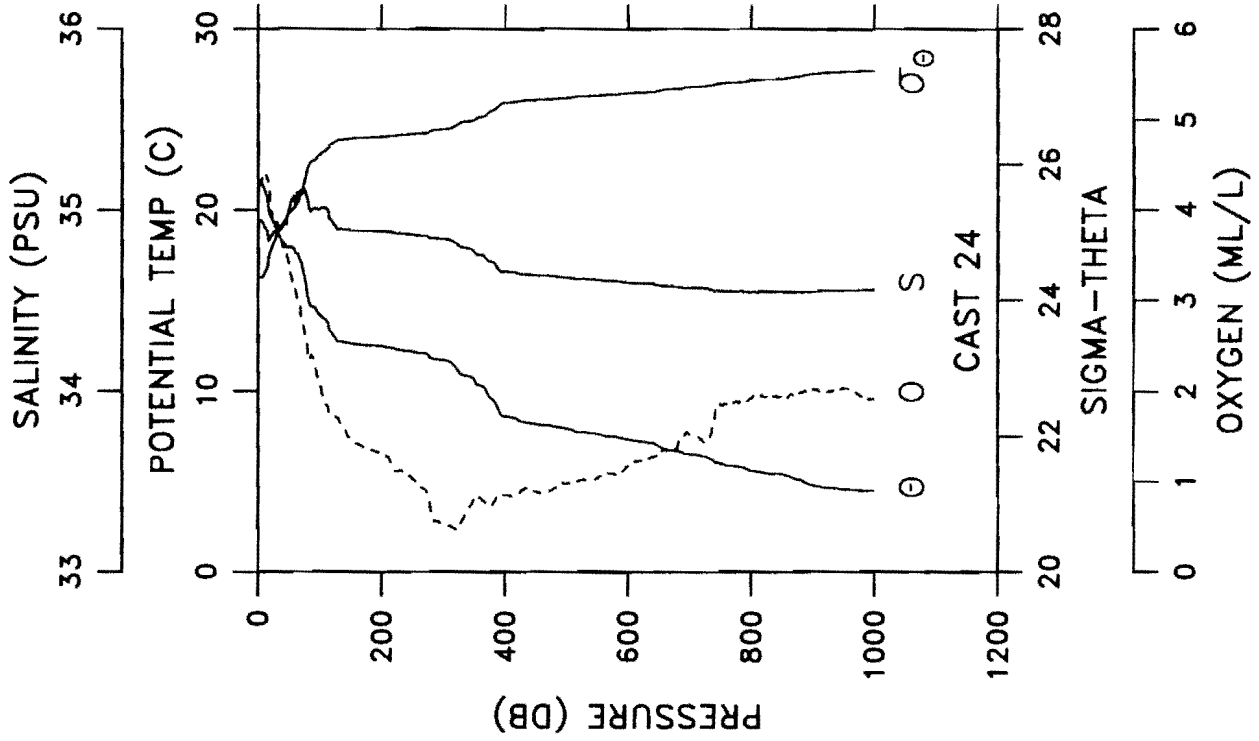


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 20.833 | 34.983 | 4.18 | 24.528 | 0.000 |
| 10 | 19.915 | 34.957 | 4.12 | 24.753 | 0.034 |
| 20 | 19.631 | 35.023 | 3.78 | 24.878 | 0.065 |
| 30 | 19.659 | 35.063 | 3.72 | 24.900 | 0.095 |
| 40 | 19.739 | 35.127 | 3.64 | 24.928 | 0.126 |
| 50 | 19.326 | 35.111 | 3.49 | 25.023 | 0.156 |
| 60 | 18.657 | 35.155 | 3.09 | 25.228 | 0.184 |
| 70 | 16.341 | 35.159 | 2.05 | 25.793 | 0.209 |
| 80 | 15.198 | 35.079 | 1.62 | 25.989 | 0.230 |
| 90 | 14.584 | 35.035 | 1.54 | 26.090 | 0.250 |
| 100 | 13.885 | 34.979 | 1.44 | 26.196 | 0.269 |
| 110 | 13.218 | 34.939 | 1.43 | 26.302 | 0.287 |
| 120 | 13.131 | 34.931 | 1.52 | 26.314 | 0.304 |
| 130 | 12.941 | 34.916 | 1.50 | 26.340 | 0.321 |
| 140 | 12.797 | 34.906 | 1.50 | 26.361 | 0.338 |
| 150 | 12.669 | 34.897 | 1.44 | 26.379 | 0.355 |
| 160 | 12.558 | 34.891 | 1.40 | 26.397 | 0.372 |
| 170 | 12.494 | 34.886 | 1.29 | 26.406 | 0.388 |
| 180 | 12.459 | 34.884 | 1.28 | 26.411 | 0.405 |
| 190 | 12.420 | 34.882 | 1.25 | 26.417 | 0.421 |
| 200 | 12.354 | 34.878 | 1.20 | 26.426 | 0.438 |
| 250 | 11.996 | 34.856 | 0.84 | 26.478 | 0.520 |
| 300 | 11.113 | 34.806 | 0.66 | 26.604 | 0.598 |
| 350 | 10.343 | 34.771 | 0.32 | 26.714 | 0.670 |
| 400 | 9.543 | 34.720 | 0.67 | 26.811 | 0.738 |
| 450 | 8.309 | 34.642 | 0.90 | 26.946 | 0.801 |
| 500 | 7.803 | 34.616 | 1.19 | 27.002 | 0.859 |
| 550 | 7.395 | 34.601 | 1.16 | 27.049 | 0.915 |
| 600 | 7.074 | 34.588 | 1.28 | 27.084 | 0.969 |
| 650 | 6.691 | 34.572 | 1.47 | 27.124 | 1.022 |
| 700 | 6.200 | 34.556 | 1.78 | 27.176 | 1.072 |
| 750 | 5.937 | 34.549 | 1.93 | 27.204 | 1.121 |
| 800 | 5.510 | 34.546 | 1.92 | 27.255 | 1.168 |
| 900 | 4.883 | 34.547 | 2.02 | 27.330 | 1.254 |
| 1000 | 4.428 | 34.554 | 2.07 | 27.386 | 1.336 |
| 1000 | 4.428 | 34.554 | 2.07 | 27.386 | 1.336 |

CAST EP2-88-OC -024 DATE 01 JUL 88 TIME 0501 GMT
LAT 01 00.1S LONG 109 59.6W

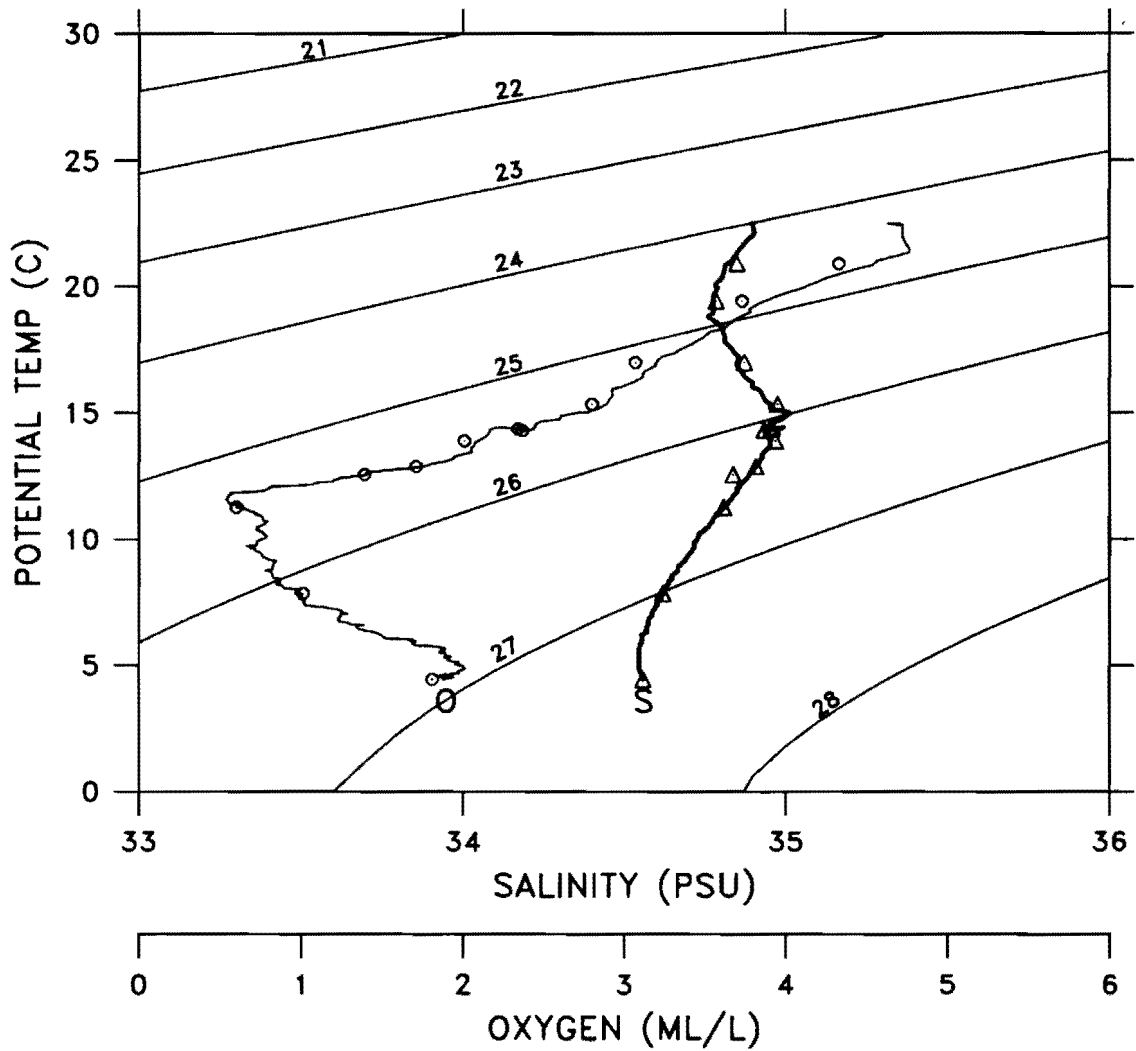


CAST EP2-88-OC -024 DATE 01 JUL 88 TIME 0501 GMT
 LAT 01 00.1S LONG 109 59.6W WEATHER 0 SEA STATE 2
 BAROMETER 13 WIND DIR 115 T SPD 07 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 21.4 WET 21.0 DEPTH 3992 M

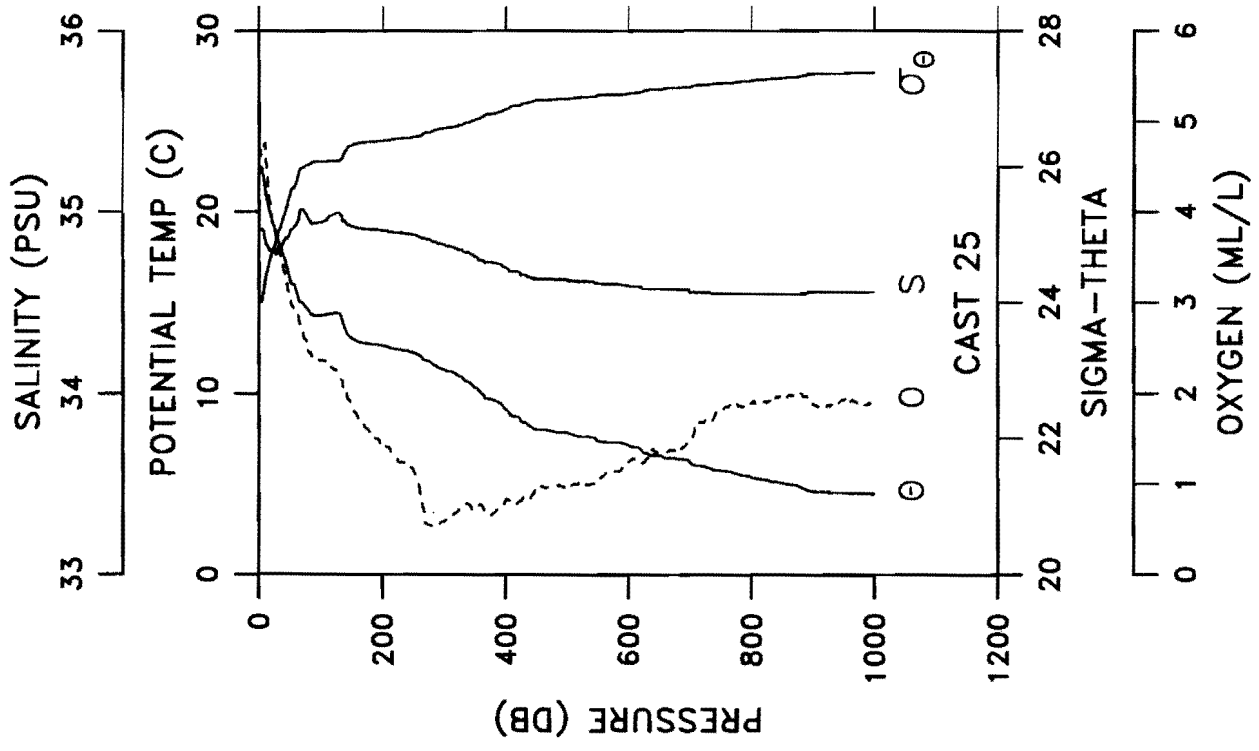


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 21.434 | 34.942 | 4.28 | 24.332 | 0.000 |
| 10 | 21.125 | 34.908 | 4.35 | 24.392 | 0.036 |
| 20 | 19.643 | 34.854 | 3.97 | 24.745 | 0.070 |
| 30 | 18.902 | 34.879 | 3.86 | 24.955 | 0.101 |
| 40 | 18.242 | 34.915 | 3.60 | 25.148 | 0.130 |
| 50 | 17.965 | 35.007 | 3.41 | 25.287 | 0.157 |
| 60 | 17.629 | 35.033 | 3.10 | 25.389 | 0.184 |
| 70 | 17.090 | 35.109 | 2.77 | 25.578 | 0.209 |
| 80 | 15.250 | 35.053 | 2.45 | 25.958 | 0.231 |
| 90 | 14.612 | 35.010 | 2.29 | 26.065 | 0.251 |
| 100 | 14.165 | 35.006 | 2.11 | 26.158 | 0.271 |
| 110 | 13.893 | 35.009 | 1.86 | 26.217 | 0.289 |
| 120 | 13.132 | 34.935 | 1.76 | 26.317 | 0.307 |
| 130 | 12.713 | 34.894 | 1.70 | 26.369 | 0.324 |
| 140 | 12.667 | 34.893 | 1.59 | 26.377 | 0.341 |
| 150 | 12.609 | 34.891 | 1.49 | 26.387 | 0.357 |
| 160 | 12.560 | 34.890 | 1.42 | 26.395 | 0.374 |
| 170 | 12.528 | 34.887 | 1.38 | 26.400 | 0.391 |
| 180 | 12.503 | 34.887 | 1.35 | 26.404 | 0.407 |
| 190 | 12.480 | 34.885 | 1.33 | 26.408 | 0.424 |
| 200 | 12.451 | 34.883 | 1.30 | 26.412 | 0.441 |
| 250 | 12.182 | 34.866 | 1.02 | 26.451 | 0.523 |
| 300 | 11.694 | 34.842 | 0.54 | 26.525 | 0.603 |
| 350 | 10.643 | 34.770 | 0.80 | 26.661 | 0.679 |
| 400 | 8.602 | 34.659 | 0.85 | 26.915 | 0.746 |
| 450 | 8.200 | 34.638 | 0.88 | 26.960 | 0.805 |
| 500 | 7.947 | 34.626 | 0.97 | 26.988 | 0.863 |
| 550 | 7.646 | 34.612 | 1.03 | 27.021 | 0.920 |
| 600 | 7.347 | 34.599 | 1.18 | 27.054 | 0.976 |
| 650 | 6.981 | 34.581 | 1.32 | 27.092 | 1.030 |
| 700 | 6.506 | 34.568 | 1.52 | 27.145 | 1.082 |
| 750 | 5.985 | 34.549 | 1.87 | 27.198 | 1.133 |
| 800 | 5.590 | 34.545 | 1.92 | 27.245 | 1.180 |
| 900 | 4.800 | 34.547 | 2.01 | 27.339 | 1.269 |
| 1000 | 4.481 | 34.557 | 1.90 | 27.383 | 1.350 |
| 1001 | 4.480 | 34.558 | 1.90 | 27.383 | 1.351 |

CAST EP2-88-OC -025 DATE 01 JUL 88 TIME 0833 GMT
LAT 00 30.2S LONG 110 00.2W

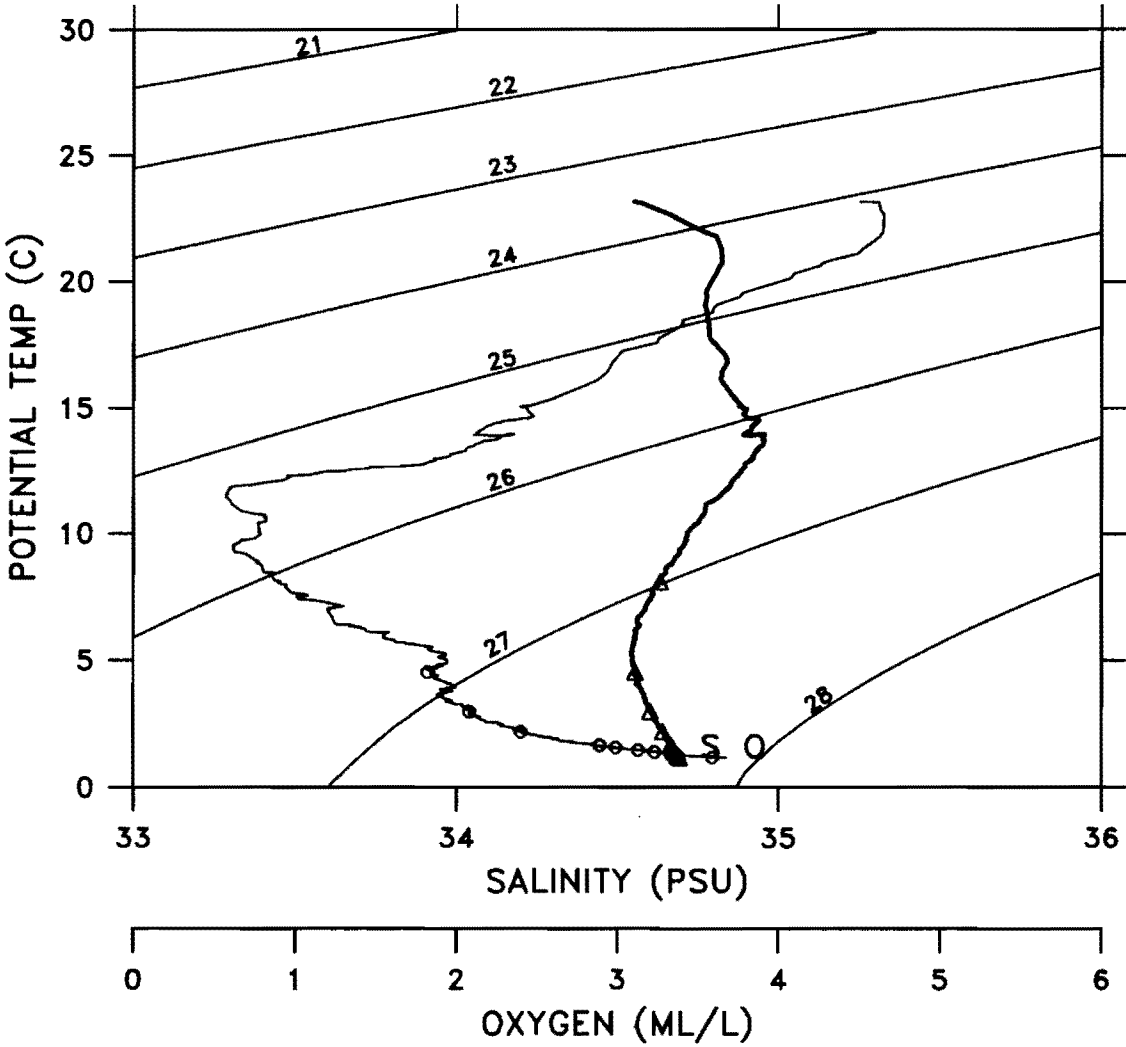


CAST EP2-88-OC -025 DATE 01 JUL 88 TIME 0833 GMT
 LAT 00 30.25 LONG 110 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 120 T SPD 07 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 21.2 WET 20.8 DEPTH 3749 M

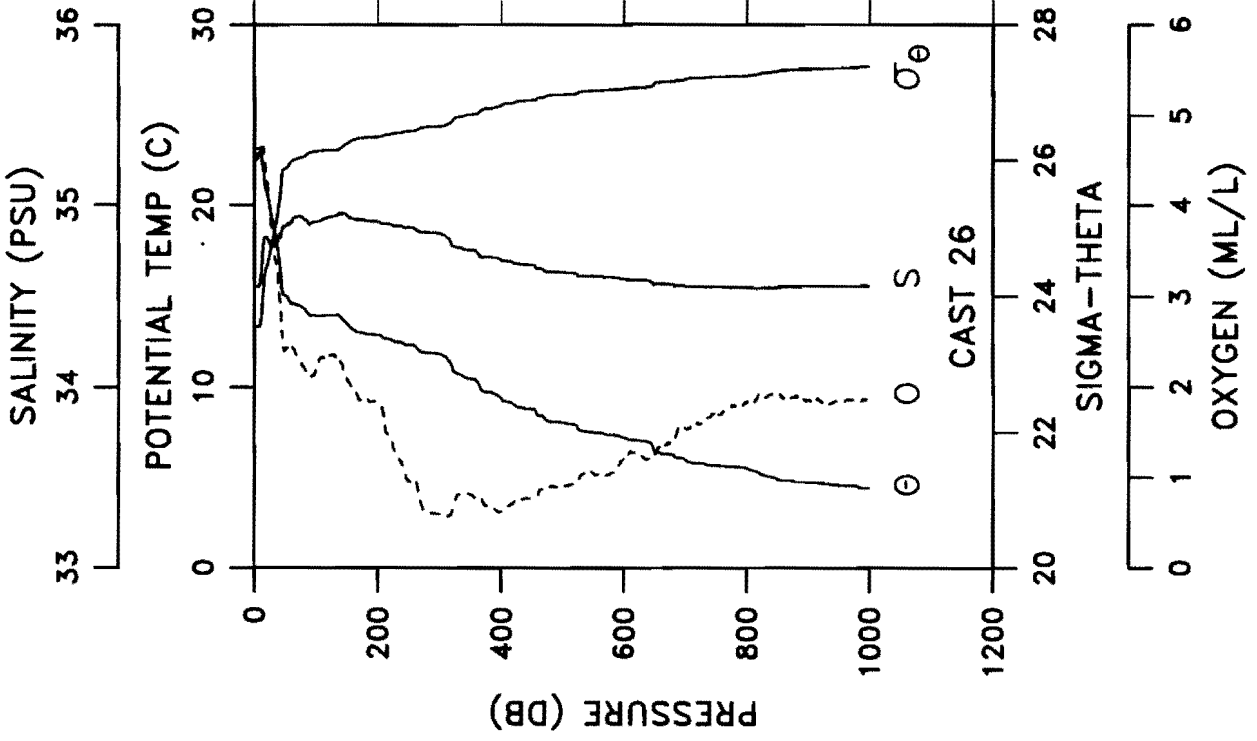


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.509 | 34.896 | 4.71 | 23.997 | 0.000 |
| 10 | 21.343 | 34.850 | 4.76 | 24.288 | 0.038 |
| 20 | 19.668 | 34.777 | 3.96 | 24.679 | 0.072 |
| 30 | 18.566 | 34.786 | 3.67 | 24.969 | 0.104 |
| 40 | 17.504 | 34.835 | 3.35 | 25.267 | 0.132 |
| 50 | 16.315 | 34.885 | 3.09 | 25.587 | 0.158 |
| 60 | 15.675 | 34.929 | 2.93 | 25.768 | 0.181 |
| 70 | 14.973 | 35.012 | 2.69 | 25.988 | 0.202 |
| 80 | 14.578 | 34.957 | 2.46 | 26.032 | 0.222 |
| 90 | 14.280 | 34.934 | 2.38 | 26.077 | 0.242 |
| 100 | 14.285 | 34.940 | 2.37 | 26.081 | 0.261 |
| 110 | 14.333 | 34.983 | 2.34 | 26.084 | 0.281 |
| 120 | 14.393 | 34.983 | 2.27 | 26.091 | 0.300 |
| 130 | 14.399 | 34.991 | 2.20 | 26.096 | 0.320 |
| 140 | 13.500 | 34.939 | 2.05 | 26.245 | 0.339 |
| 150 | 13.044 | 34.919 | 1.87 | 26.322 | 0.356 |
| 160 | 12.856 | 34.908 | 1.74 | 26.351 | 0.373 |
| 170 | 12.762 | 34.902 | 1.65 | 26.365 | 0.390 |
| 180 | 12.739 | 34.900 | 1.57 | 26.368 | 0.407 |
| 190 | 12.691 | 34.899 | 1.50 | 26.377 | 0.424 |
| 200 | 12.637 | 34.894 | 1.42 | 26.383 | 0.441 |
| 250 | 12.248 | 34.871 | 1.15 | 26.442 | 0.525 |
| 300 | 11.329 | 34.815 | 0.60 | 26.572 | 0.604 |
| 350 | 10.347 | 34.745 | 0.73 | 26.694 | 0.678 |
| 400 | 9.140 | 34.690 | 0.83 | 26.853 | 0.745 |
| 450 | 8.012 | 34.627 | 0.97 | 26.979 | 0.806 |
| 500 | 7.848 | 34.622 | 0.96 | 27.000 | 0.863 |
| 550 | 7.365 | 34.601 | 1.04 | 27.054 | 0.919 |
| 600 | 7.142 | 34.589 | 1.25 | 27.076 | 0.973 |
| 650 | 6.573 | 34.574 | 1.35 | 27.142 | 1.025 |
| 700 | 6.207 | 34.553 | 1.49 | 27.173 | 1.075 |
| 750 | 5.746 | 34.550 | 1.81 | 27.229 | 1.123 |
| 800 | 5.373 | 34.543 | 1.89 | 27.269 | 1.169 |
| 900 | 4.623 | 34.555 | 1.88 | 27.365 | 1.255 |
| 1000 | 4.458 | 34.558 | 1.87 | 27.386 | 1.334 |
| 1006 | 4.436 | 34.558 | 1.90 | 27.389 | 1.339 |

CAST EP2-88-OC -026 DATE 01 JUL 88 TIME 1257 GMT
LAT 00 04.8S LONG 109 50.9W

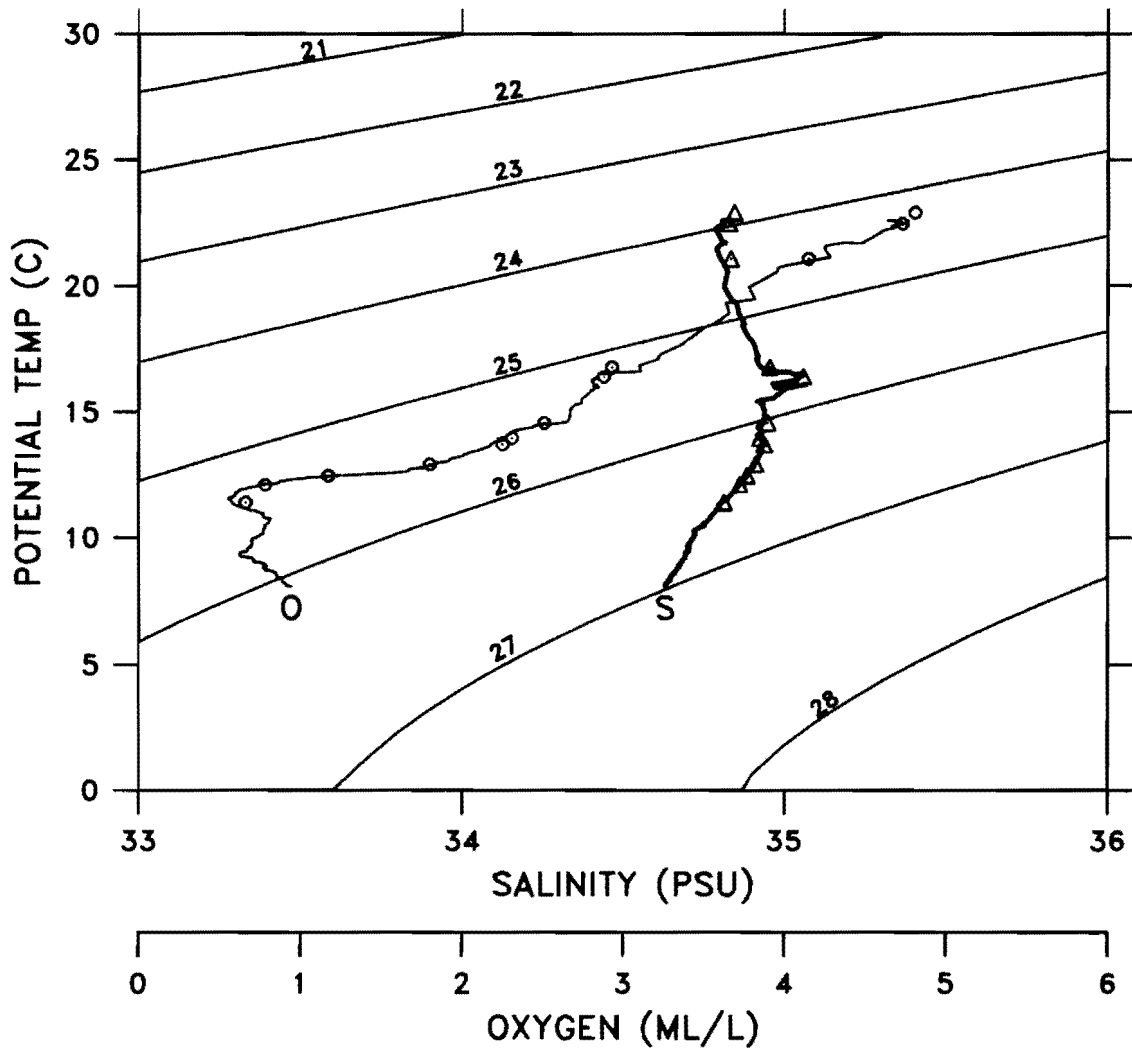


CAST EP2-88-OC -026 DATE 01 JUL 88 TIME 1257 GMT
 LAT 00 04.8S LONG 109 50.9W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 090 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 21.6 WET 20.0 DEPTH 3767 M

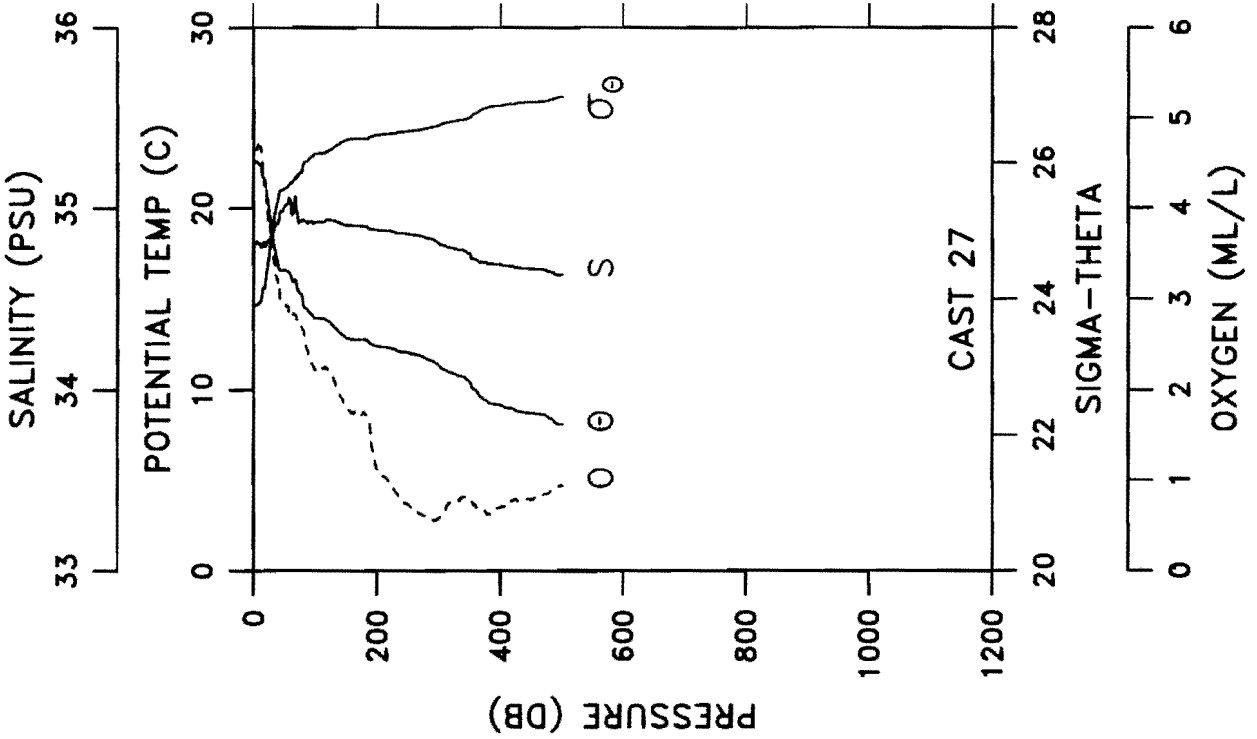


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 23.158 | 34.552 | 4.51 | 23.550 | 0.000 |
| 10 | 22.985 | 34.599 | 4.63 | 23.636 | 0.043 |
| 20 | 20.739 | 34.825 | 4.27 | 24.433 | 0.081 |
| 30 | 19.052 | 34.772 | 3.61 | 24.835 | 0.115 |
| 40 | 17.108 | 34.833 | 3.01 | 25.361 | 0.143 |
| 50 | 15.049 | 34.882 | 2.41 | 25.871 | 0.166 |
| 60 | 14.593 | 34.903 | 2.45 | 25.987 | 0.187 |
| 70 | 14.525 | 34.938 | 2.33 | 26.028 | 0.207 |
| 80 | 14.356 | 34.926 | 2.21 | 26.055 | 0.227 |
| 90 | 13.938 | 34.896 | 2.11 | 26.120 | 0.246 |
| 100 | 13.928 | 34.909 | 2.19 | 26.133 | 0.265 |
| 110 | 13.931 | 34.922 | 2.33 | 26.142 | 0.284 |
| 120 | 13.951 | 34.933 | 2.35 | 26.146 | 0.303 |
| 130 | 13.966 | 34.940 | 2.36 | 26.148 | 0.322 |
| 140 | 13.845 | 34.951 | 2.27 | 26.183 | 0.341 |
| 150 | 13.486 | 34.944 | 2.09 | 26.251 | 0.359 |
| 160 | 13.168 | 34.925 | 1.96 | 26.302 | 0.377 |
| 170 | 13.003 | 34.920 | 1.86 | 26.331 | 0.395 |
| 180 | 12.940 | 34.916 | 1.86 | 26.340 | 0.412 |
| 190 | 12.898 | 34.911 | 1.85 | 26.345 | 0.429 |
| 200 | 12.876 | 34.908 | 1.84 | 26.347 | 0.446 |
| 250 | 12.316 | 34.875 | 0.95 | 26.432 | 0.531 |
| 300 | 11.834 | 34.847 | 0.60 | 26.502 | 0.612 |
| 350 | 10.468 | 34.753 | 0.82 | 26.679 | 0.687 |
| 400 | 9.415 | 34.699 | 0.61 | 26.816 | 0.755 |
| 450 | 8.816 | 34.672 | 0.78 | 26.891 | 0.819 |
| 500 | 8.072 | 34.632 | 0.89 | 26.975 | 0.878 |
| 550 | 7.533 | 34.609 | 1.05 | 27.036 | 0.935 |
| 600 | 7.247 | 34.593 | 1.22 | 27.064 | 0.990 |
| 650 | 6.446 | 34.563 | 1.25 | 27.149 | 1.044 |
| 700 | 6.005 | 34.557 | 1.55 | 27.202 | 1.093 |
| 750 | 5.658 | 34.552 | 1.70 | 27.241 | 1.140 |
| 800 | 5.533 | 34.549 | 1.83 | 27.254 | 1.186 |
| 900 | 4.737 | 34.554 | 1.86 | 27.352 | 1.271 |
| 1000 | 4.414 | 34.560 | 1.87 | 27.392 | 1.351 |
| 1500 | 2.980 | 34.604 | 2.11 | 27.571 | 1.696 |
| 2000 | 2.182 | 34.641 | 2.40 | 27.670 | 1.978 |
| 2500 | 1.653 | 34.666 | 2.84 | 27.731 | 2.224 |
| 3000 | 1.454 | 34.674 | 3.15 | 27.752 | 2.455 |
| 3500 | 1.249 | 34.687 | 3.42 | 27.777 | 2.680 |
| 3788 | 1.161 | 34.691 | 3.65 | 27.786 | 2.809 |

CAST EP2-88-OC -027 DATE 04 JUL 88 TIME 0049 GMT
LAT 00 02.3S LONG 110 07.8W

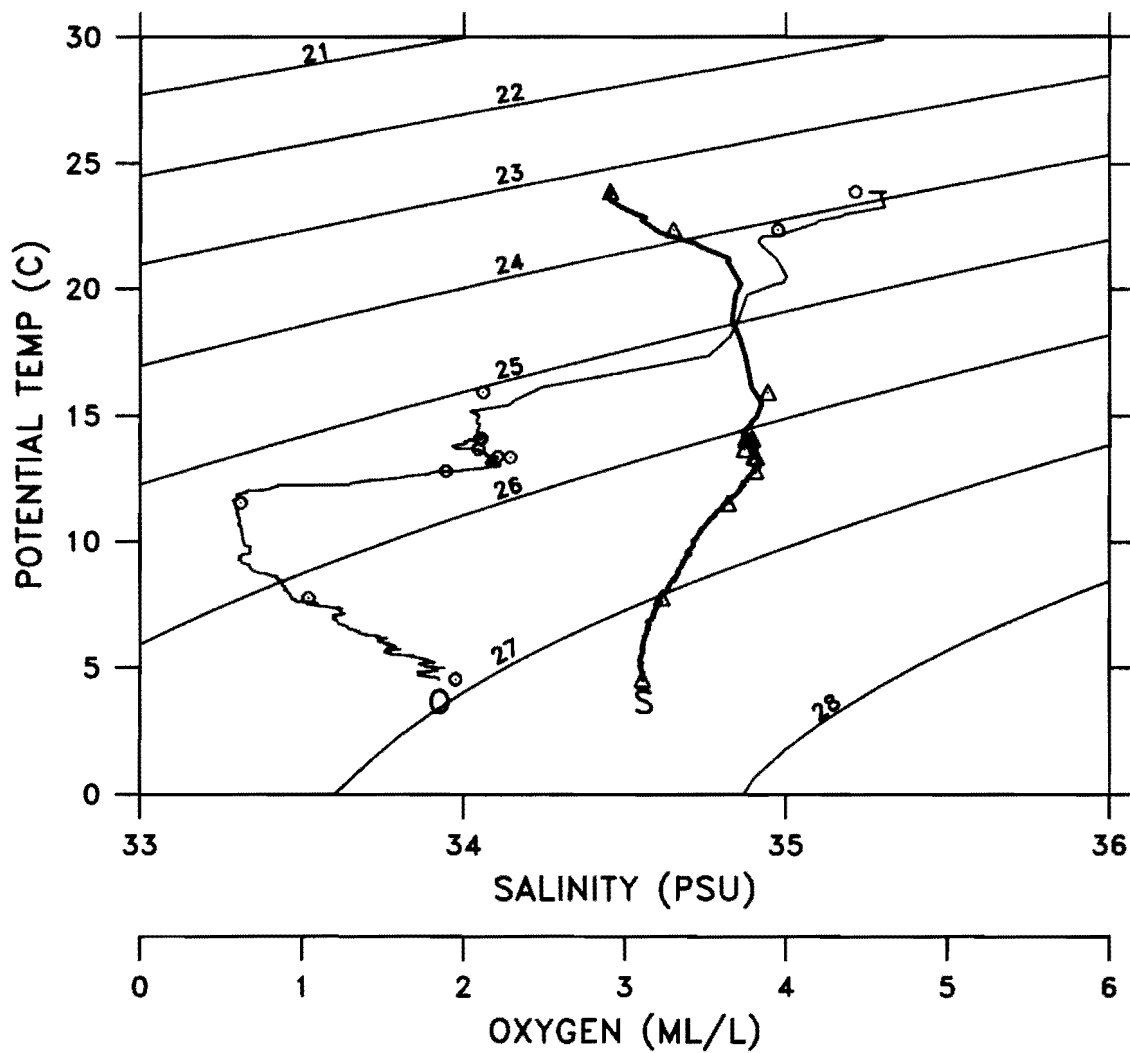


CAST EP2-88-0C -027 DATE 04 JUL 88 TIME 0049 GMT
 LAT 00 02.3S LONG 110 07.8W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 085 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 22.7 WET 20.6 DEPTH 3743 M

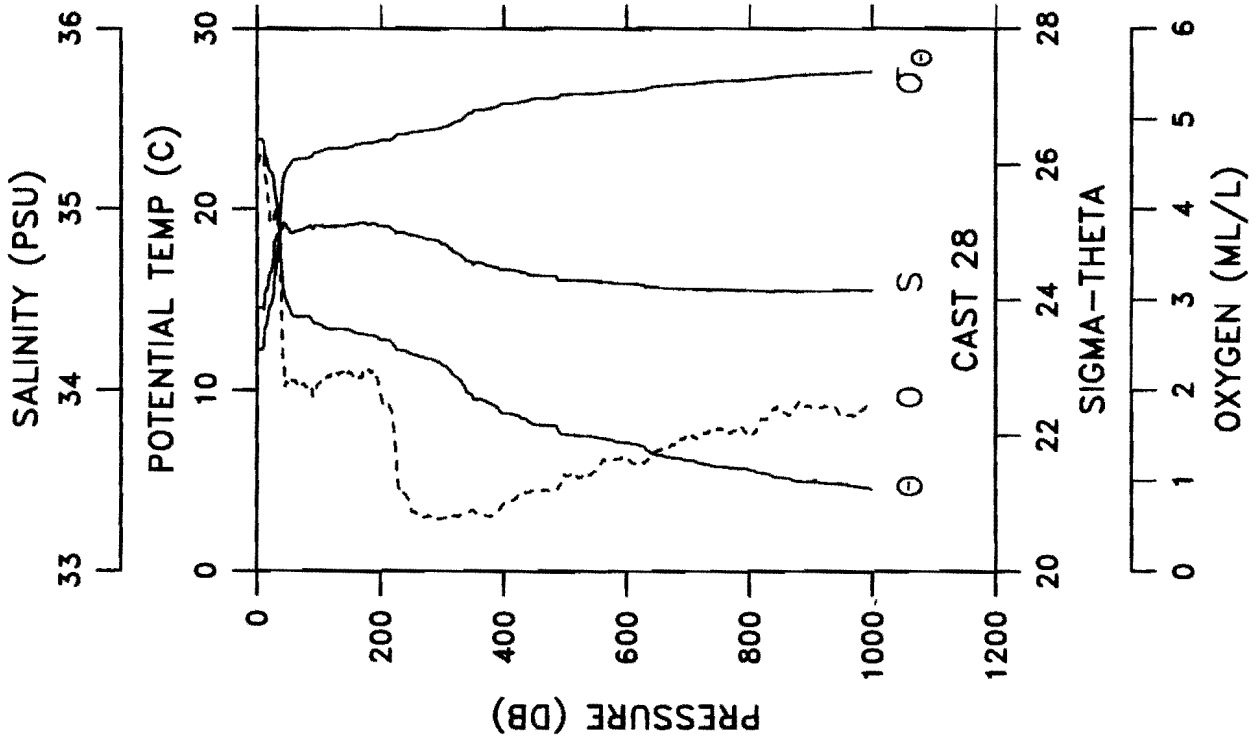


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 22.577 | 34.807 | 4.64 | 23.910 | 0.000 |
| 10 | 22.435 | 34.805 | 4.71 | 23.948 | 0.040 |
| 20 | 21.110 | 34.799 | 4.28 | 24.312 | 0.078 |
| 30 | 18.907 | 34.858 | 3.66 | 24.938 | 0.111 |
| 40 | 16.842 | 34.921 | 3.10 | 25.492 | 0.138 |
| 50 | 16.335 | 35.006 | 2.94 | 25.615 | 0.162 |
| 60 | 16.335 | 35.037 | 2.82 | 25.700 | 0.185 |
| 70 | 15.724 | 34.985 | 2.78 | 25.799 | 0.208 |
| 80 | 14.800 | 34.938 | 2.67 | 25.969 | 0.230 |
| 90 | 14.296 | 34.928 | 2.34 | 26.069 | 0.250 |
| 100 | 13.962 | 34.924 | 2.23 | 26.137 | 0.269 |
| 110 | 13.941 | 34.925 | 2.25 | 26.142 | 0.288 |
| 120 | 13.850 | 34.940 | 2.23 | 26.173 | 0.307 |
| 130 | 13.515 | 34.932 | 2.11 | 26.236 | 0.325 |
| 140 | 13.169 | 34.916 | 1.94 | 26.294 | 0.343 |
| 150 | 12.883 | 34.906 | 1.81 | 26.344 | 0.360 |
| 160 | 12.816 | 34.905 | 1.75 | 26.357 | 0.377 |
| 170 | 12.799 | 34.904 | 1.76 | 26.359 | 0.395 |
| 180 | 12.786 | 34.901 | 1.73 | 26.360 | 0.412 |
| 190 | 12.565 | 34.885 | 1.47 | 26.391 | 0.429 |
| 200 | 12.433 | 34.882 | 1.12 | 26.414 | 0.445 |
| 250 | 12.072 | 34.859 | 0.73 | 26.466 | 0.527 |
| 300 | 11.390 | 34.805 | 0.58 | 26.553 | 0.607 |
| 350 | 10.474 | 34.747 | 0.78 | 26.673 | 0.682 |
| 400 | 9.185 | 34.691 | 0.70 | 26.847 | 0.748 |
| 450 | 8.732 | 34.665 | 0.78 | 26.899 | 0.811 |
| 500 | 8.085 | 34.631 | 0.94 | 26.972 | 0.871 |
| 502 | 8.086 | 34.631 | 0.94 | 26.972 | 0.873 |

CAST EP2-88-OC -028 DATE 04 JUL 88 TIME 0409 GMT
LAT 00 30.1N LONG 109.59.7W

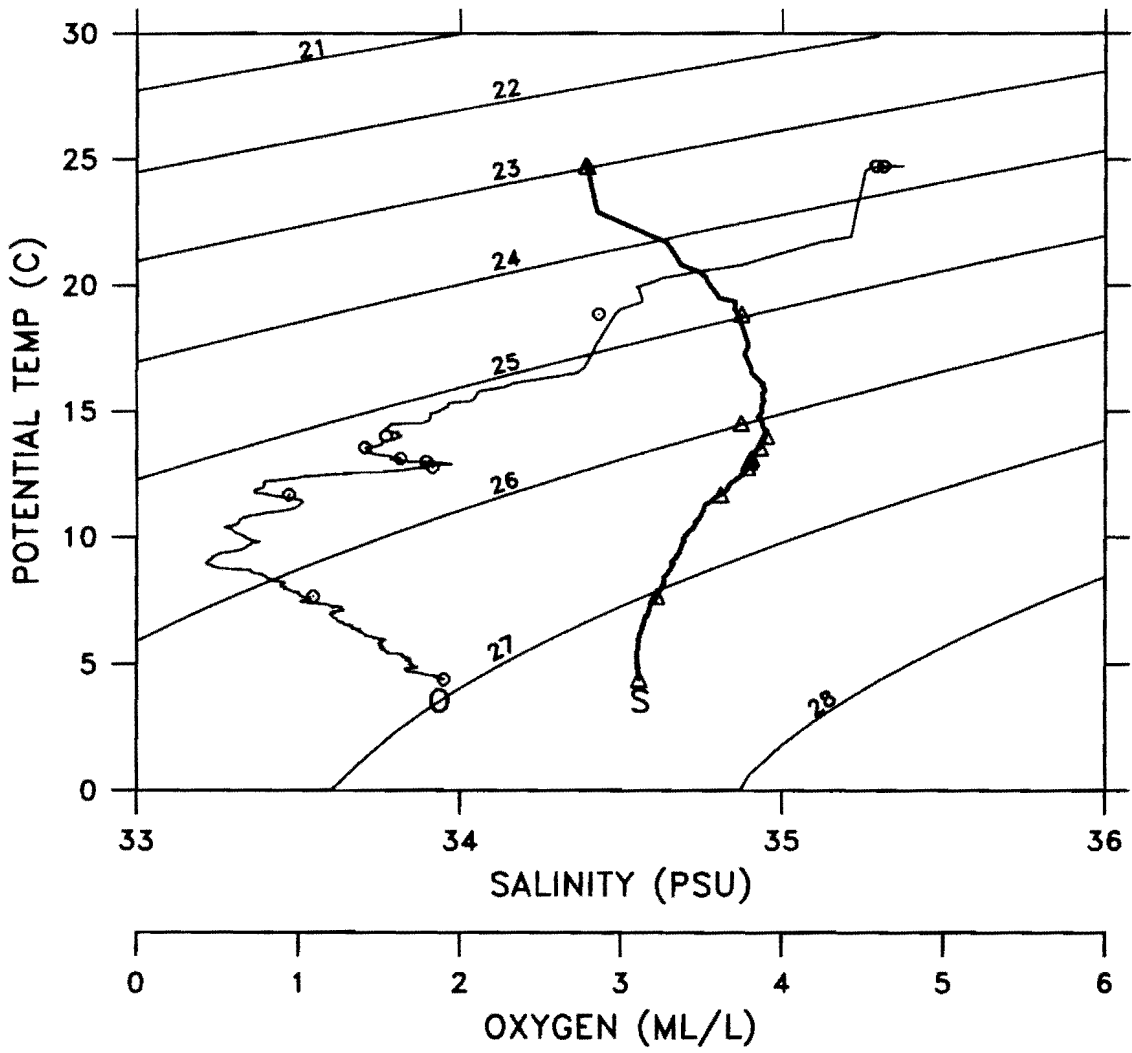


CAST EP2-88-OC -028 DATE 04 JUL 88 TIME 0409 GMT
 LAT 00 30.1N LONG 109 59.7W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 130 T SPD 08 KT VISIBILITY 8
 CLOUD 7 AMOUNT 1 DRY 21.9 WET 20.4 DEPTH 3409 M

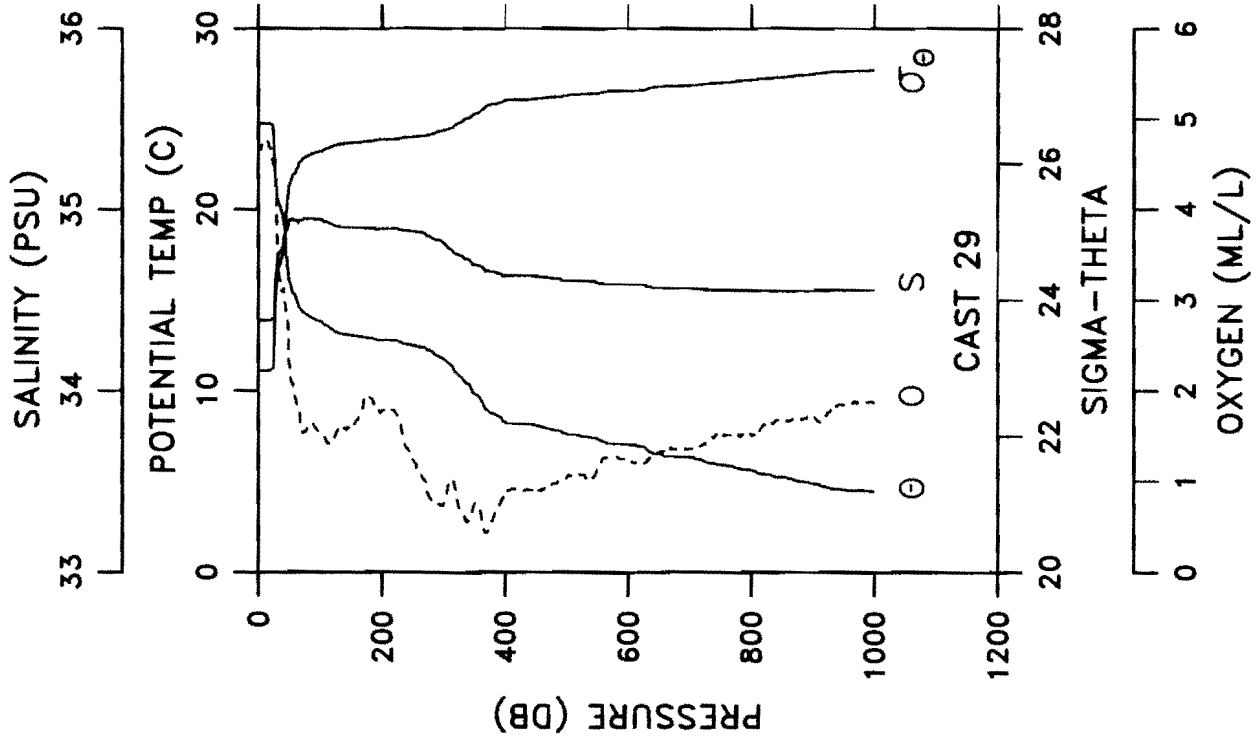


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 23.874 | 34.457 | 4.51 | 23.269 | 0.000 |
| 10 | 23.809 | 34.455 | 4.59 | 23.287 | 0.046 |
| 20 | 22.130 | 34.641 | 3.98 | 23.910 | 0.089 |
| 30 | 20.792 | 34.832 | 3.98 | 24.424 | 0.127 |
| 40 | 16.557 | 34.886 | 2.84 | 25.532 | 0.158 |
| 50 | 14.725 | 34.892 | 2.08 | 25.949 | 0.179 |
| 60 | 14.089 | 34.873 | 2.10 | 26.071 | 0.199 |
| 70 | 14.082 | 34.882 | 2.06 | 26.079 | 0.219 |
| 80 | 14.089 | 34.896 | 2.03 | 26.089 | 0.238 |
| 90 | 13.819 | 34.889 | 1.93 | 26.140 | 0.257 |
| 100 | 13.679 | 34.907 | 2.07 | 26.183 | 0.276 |
| 110 | 13.469 | 34.898 | 2.14 | 26.219 | 0.294 |
| 120 | 13.403 | 34.902 | 2.19 | 26.236 | 0.313 |
| 130 | 13.389 | 34.903 | 2.19 | 26.239 | 0.331 |
| 140 | 13.389 | 34.904 | 2.21 | 26.240 | 0.349 |
| 150 | 13.344 | 34.915 | 2.20 | 26.258 | 0.367 |
| 160 | 13.191 | 34.915 | 2.15 | 26.289 | 0.385 |
| 170 | 13.115 | 34.922 | 2.15 | 26.310 | 0.402 |
| 180 | 13.049 | 34.911 | 2.22 | 26.325 | 0.437 |
| 190 | 13.031 | 34.919 | 2.22 | 26.356 | 0.454 |
| 200 | 12.814 | 34.904 | 1.95 | 26.356 | 0.454 |
| 250 | 12.040 | 34.857 | 0.68 | 26.471 | 0.538 |
| 300 | 11.410 | 34.803 | 0.59 | 26.548 | 0.618 |
| 350 | 9.601 | 34.693 | 0.68 | 26.780 | 0.691 |
| 400 | 8.739 | 34.666 | 0.75 | 26.898 | 0.755 |
| 450 | 8.119 | 34.634 | 0.90 | 26.969 | 0.815 |
| 500 | 7.567 | 34.611 | 1.06 | 27.032 | 0.873 |
| 550 | 7.417 | 34.602 | 1.12 | 27.047 | 0.928 |
| 600 | 7.106 | 34.590 | 1.26 | 27.081 | 0.982 |
| 650 | 6.444 | 34.570 | 1.33 | 27.155 | 1.035 |
| 700 | 6.147 | 34.562 | 1.51 | 27.188 | 1.084 |
| 750 | 5.796 | 34.556 | 1.58 | 27.228 | 1.132 |
| 800 | 5.646 | 34.556 | 1.53 | 27.246 | 1.178 |
| 900 | 4.953 | 34.551 | 1.81 | 27.325 | 1.266 |
| 1000 | 4.541 | 34.556 | 1.85 | 27.375 | 1.350 |
| 1003 | 4.531 | 34.557 | 1.85 | 27.377 | 1.352 |

CAST EP2-88-OC -029 DATE 04 JUL 88 TIME 0726 GMT
LAT 01 00.1N LONG 110 00.3W

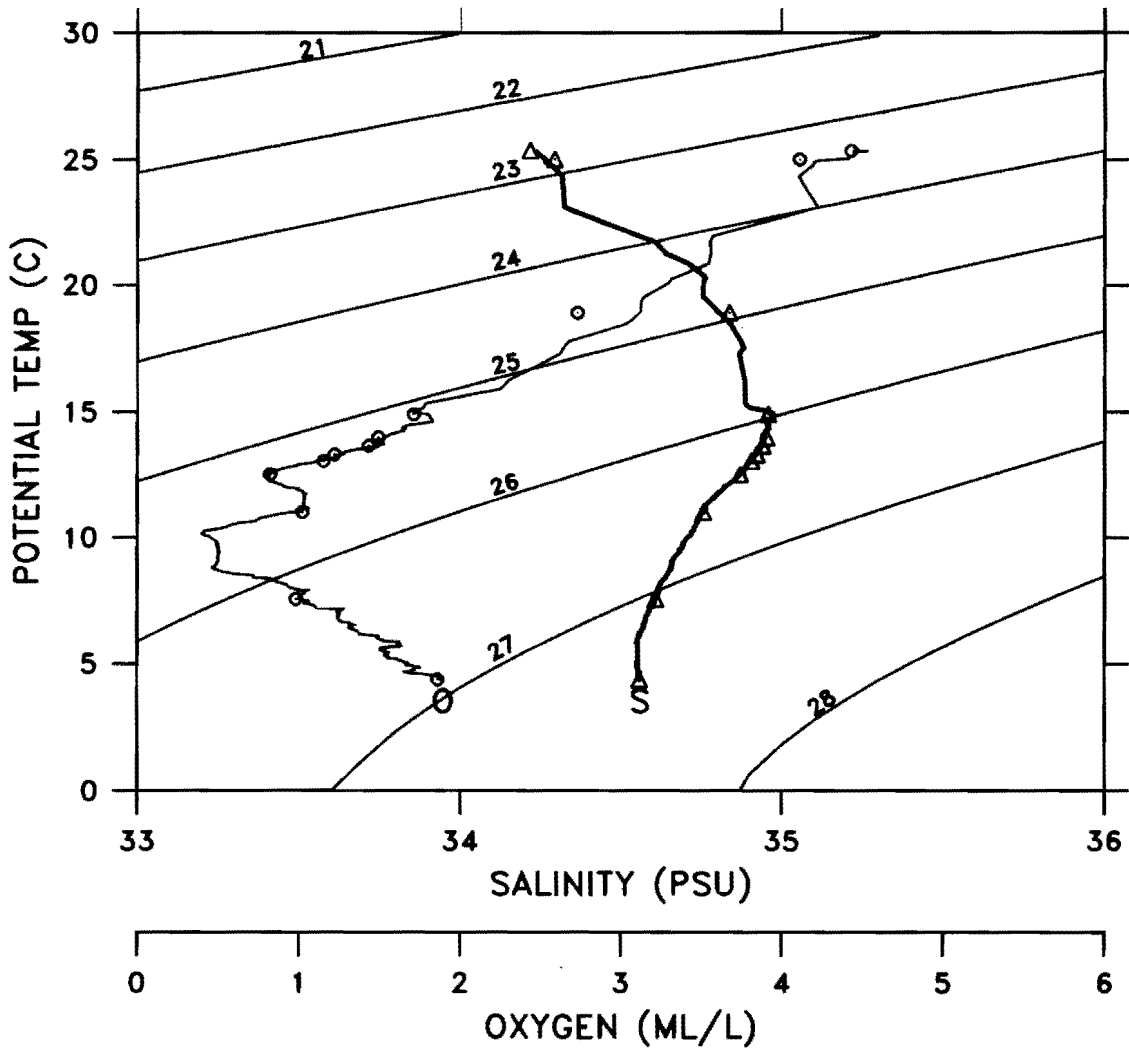


CAST EP2-88-0C -029 DATE 04 JUL 88 TIME 0726 GMT
 LAT 01 00.1N LONG 110 00.3W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 150 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 8 DRY 22.2 WET 20.0 DEPTH 3807 M

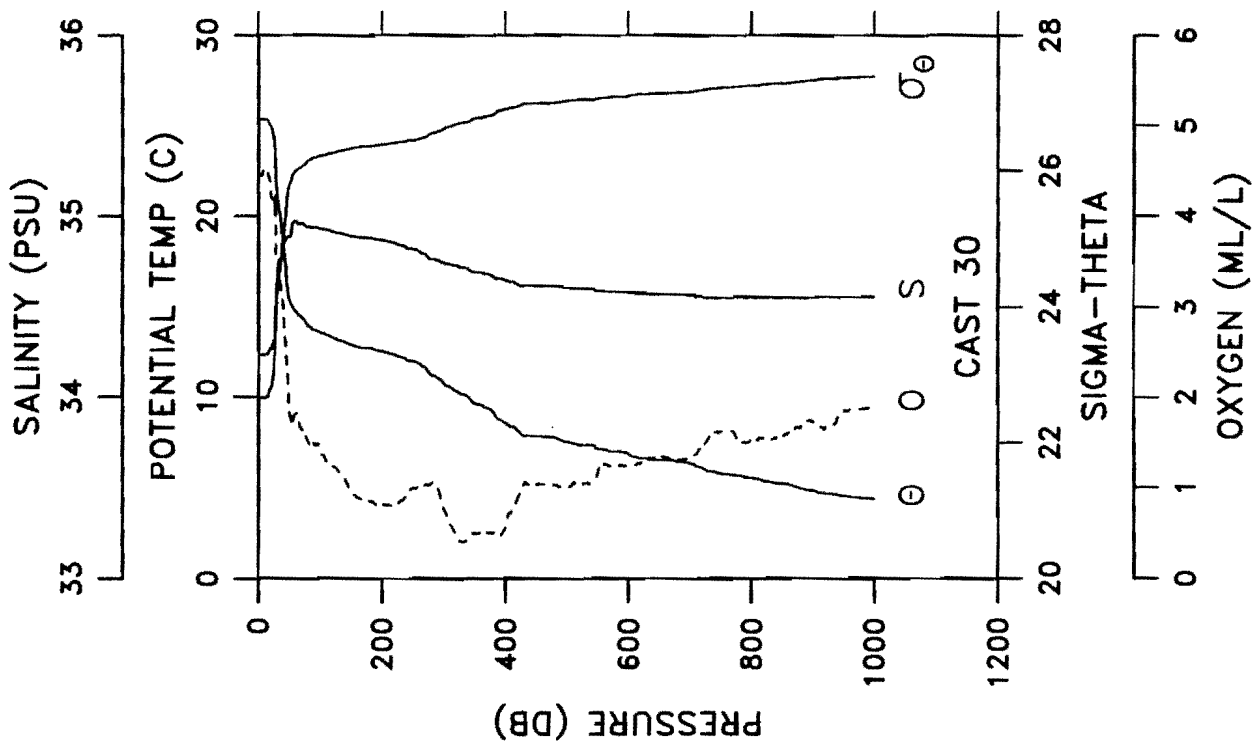


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 24.740 | 34.387 | 4.68 | 22.959 | 0.000 |
| 10 | 24.744 | 34.387 | 4.73 | 22.958 | 0.049 |
| 20 | 24.721 | 34.390 | 4.68 | 22.966 | 0.098 |
| 30 | 20.808 | 34.686 | 3.75 | 24.308 | 0.142 |
| 40 | 19.500 | 34.804 | 3.13 | 24.744 | 0.176 |
| 50 | 16.054 | 34.937 | 2.30 | 25.688 | 0.204 |
| 60 | 15.197 | 34.935 | 1.93 | 25.879 | 0.226 |
| 70 | 14.392 | 34.940 | 1.56 | 26.059 | 0.246 |
| 80 | 14.171 | 34.949 | 1.61 | 26.112 | 0.265 |
| 90 | 13.956 | 34.947 | 1.62 | 26.156 | 0.284 |
| 100 | 13.815 | 34.944 | 1.54 | 26.183 | 0.303 |
| 110 | 13.569 | 34.931 | 1.45 | 26.224 | 0.321 |
| 120 | 13.356 | 34.917 | 1.45 | 26.257 | 0.339 |
| 130 | 13.150 | 34.904 | 1.58 | 26.289 | 0.357 |
| 140 | 13.090 | 34.902 | 1.59 | 26.299 | 0.375 |
| 150 | 13.041 | 34.900 | 1.62 | 26.308 | 0.392 |
| 160 | 12.994 | 34.898 | 1.68 | 26.316 | 0.409 |
| 170 | 12.920 | 34.896 | 1.90 | 26.329 | 0.427 |
| 180 | 12.888 | 34.896 | 1.92 | 26.335 | 0.444 |
| 190 | 12.801 | 34.891 | 1.78 | 26.349 | 0.461 |
| 200 | 12.760 | 34.893 | 1.78 | 26.359 | 0.479 |
| 250 | 12.479 | 34.879 | 1.25 | 26.403 | 0.564 |
| 300 | 11.718 | 34.814 | 0.75 | 26.499 | 0.647 |
| 350 | 9.829 | 34.697 | 0.76 | 26.744 | 0.722 |
| 400 | 8.261 | 34.634 | 0.86 | 26.947 | 0.785 |
| 450 | 8.097 | 34.631 | 0.90 | 26.970 | 0.843 |
| 500 | 7.631 | 34.609 | 1.04 | 27.022 | 0.900 |
| 550 | 7.358 | 34.595 | 1.17 | 27.050 | 0.956 |
| 600 | 7.057 | 34.586 | 1.22 | 27.085 | 1.009 |
| 650 | 6.519 | 34.570 | 1.32 | 27.146 | 1.061 |
| 700 | 6.346 | 34.566 | 1.36 | 27.165 | 1.111 |
| 750 | 5.930 | 34.555 | 1.54 | 27.210 | 1.160 |
| 800 | 5.615 | 34.555 | 1.52 | 27.249 | 1.207 |
| 900 | 4.848 | 34.553 | 1.72 | 27.338 | 1.295 |
| 1000 | 4.410 | 34.557 | 1.87 | 27.390 | 1.375 |
| 1005 | 4.406 | 34.557 | 1.87 | 27.391 | 1.379 |

CAST EP2-88-OC -030 DATE 04 JUL 88 TIME 1031 GMT
LAT 01 30.4N LONG 109 59.9W

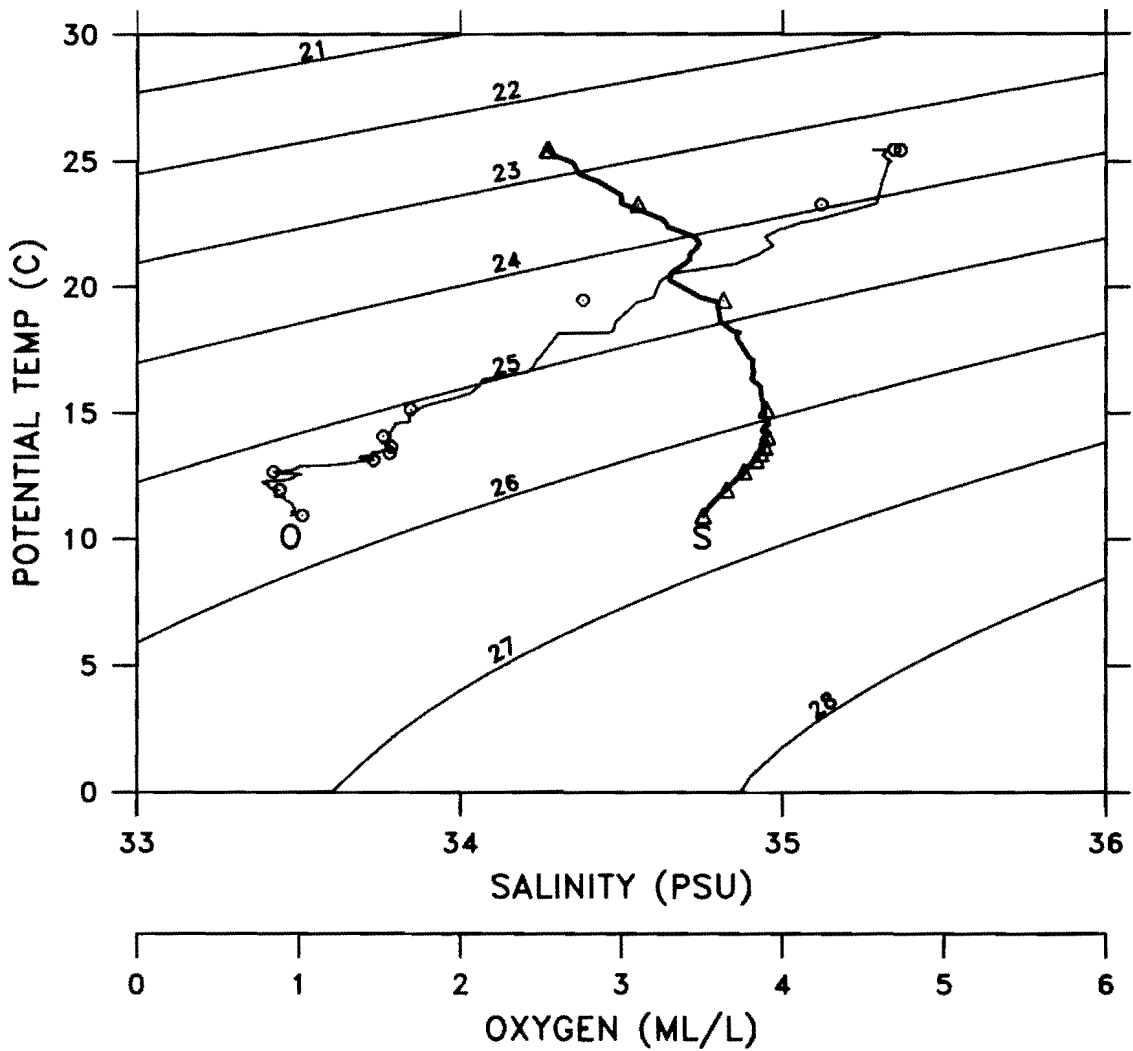


CAST EP2-88-0C -030 DATE 04 JUL 88 TIME 1031 GMT
 LAT 01 30.4N LONG 109 59.9W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 155 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY DIR 22.3 WET 20.1 DEPTH 3767 M

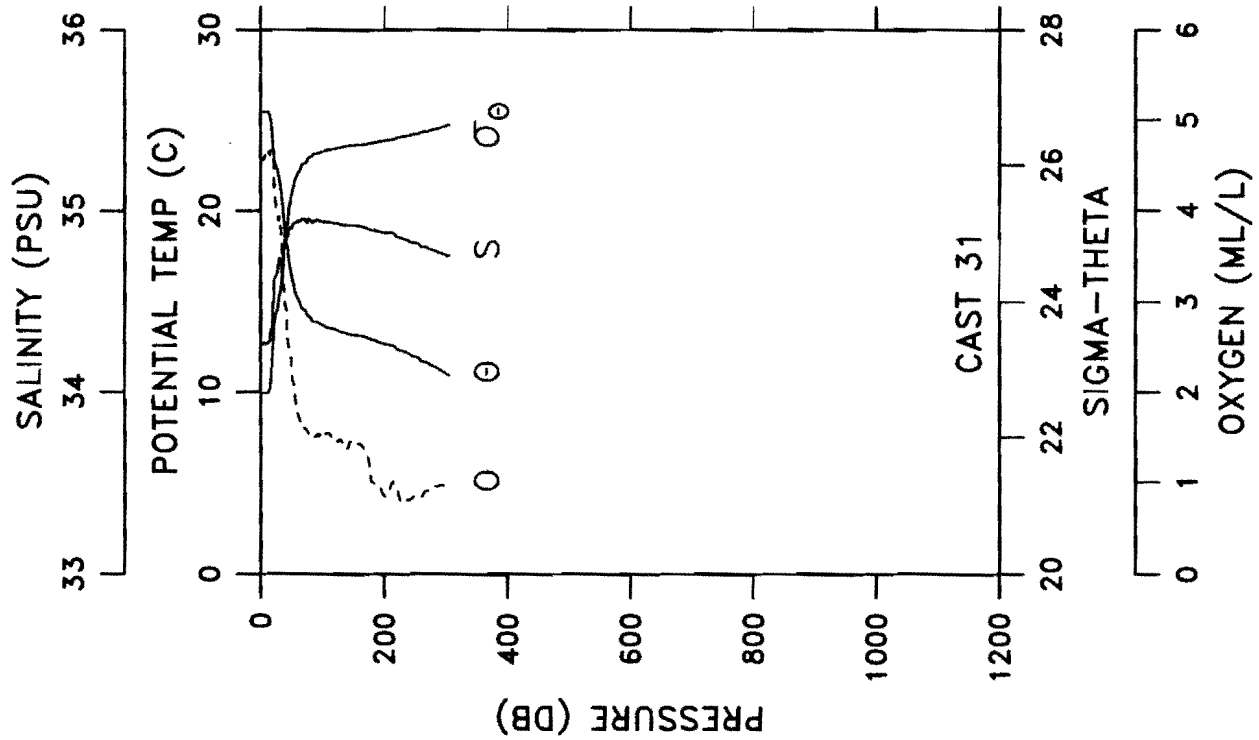


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 25.348 | 34.232 | 4.44 | 22.657 | 0.000 |
| 10 | 25.353 | 34.232 | 4.53 | 22.655 | 0.052 |
| 20 | 24.971 | 34.268 | 4.21 | 22.799 | 0.103 |
| 30 | 21.251 | 34.640 | 3.56 | 24.152 | 0.150 |
| 40 | 18.463 | 34.840 | 3.03 | 25.035 | 0.183 |
| 50 | 15.428 | 34.885 | 1.86 | 25.790 | 0.208 |
| 60 | 14.762 | 34.971 | 1.81 | 26.003 | 0.229 |
| 70 | 14.418 | 34.959 | 1.65 | 26.067 | 0.249 |
| 80 | 13.934 | 34.939 | 1.52 | 26.155 | 0.268 |
| 90 | 13.705 | 34.940 | 1.49 | 26.203 | 0.286 |
| 100 | 13.562 | 34.932 | 1.40 | 26.226 | 0.305 |
| 110 | 13.438 | 34.924 | 1.29 | 26.246 | 0.323 |
| 120 | 13.302 | 34.916 | 1.23 | 26.267 | 0.341 |
| 130 | 13.128 | 34.907 | 1.17 | 26.296 | 0.358 |
| 140 | 13.026 | 34.899 | 1.10 | 26.310 | 0.376 |
| 150 | 12.869 | 34.889 | 0.97 | 26.334 | 0.393 |
| 160 | 12.762 | 34.884 | 0.89 | 26.351 | 0.410 |
| 170 | 12.707 | 34.881 | 0.86 | 26.359 | 0.427 |
| 180 | 12.699 | 34.881 | 0.85 | 26.361 | 0.444 |
| 190 | 12.584 | 34.872 | 0.81 | 26.377 | 0.461 |
| 200 | 12.514 | 34.867 | 0.80 | 26.387 | 0.478 |
| 250 | 11.976 | 34.820 | 0.99 | 26.454 | 0.561 |
| 300 | 10.768 | 34.743 | 0.76 | 26.617 | 0.639 |
| 350 | 9.644 | 34.691 | 0.49 | 26.771 | 0.710 |
| 400 | 8.594 | 34.647 | 0.56 | 26.906 | 0.775 |
| 450 | 7.860 | 34.618 | 1.04 | 26.995 | 0.833 |
| 500 | 7.552 | 34.609 | 1.00 | 27.033 | 0.889 |
| 550 | 7.187 | 34.589 | 1.16 | 27.070 | 0.944 |
| 600 | 6.863 | 34.578 | 1.25 | 27.105 | 0.997 |
| 650 | 6.540 | 34.572 | 1.33 | 27.144 | 1.048 |
| 700 | 6.336 | 34.565 | 1.34 | 27.165 | 1.099 |
| 750 | 5.767 | 34.551 | 1.63 | 27.227 | 1.147 |
| 800 | 5.519 | 34.555 | 1.53 | 27.261 | 1.193 |
| 900 | 4.835 | 34.552 | 1.73 | 27.339 | 1.280 |
| 1000 | 4.384 | 34.558 | 1.89 | 27.394 | 1.360 |
| 1008 | 4.373 | 34.558 | 1.89 | 27.395 | 1.367 |

CAST EP2-88-OC -031 DATE 04 JUL 88 TIME 1400 GMT
LAT 02 03.0N LONG 110 07.6W

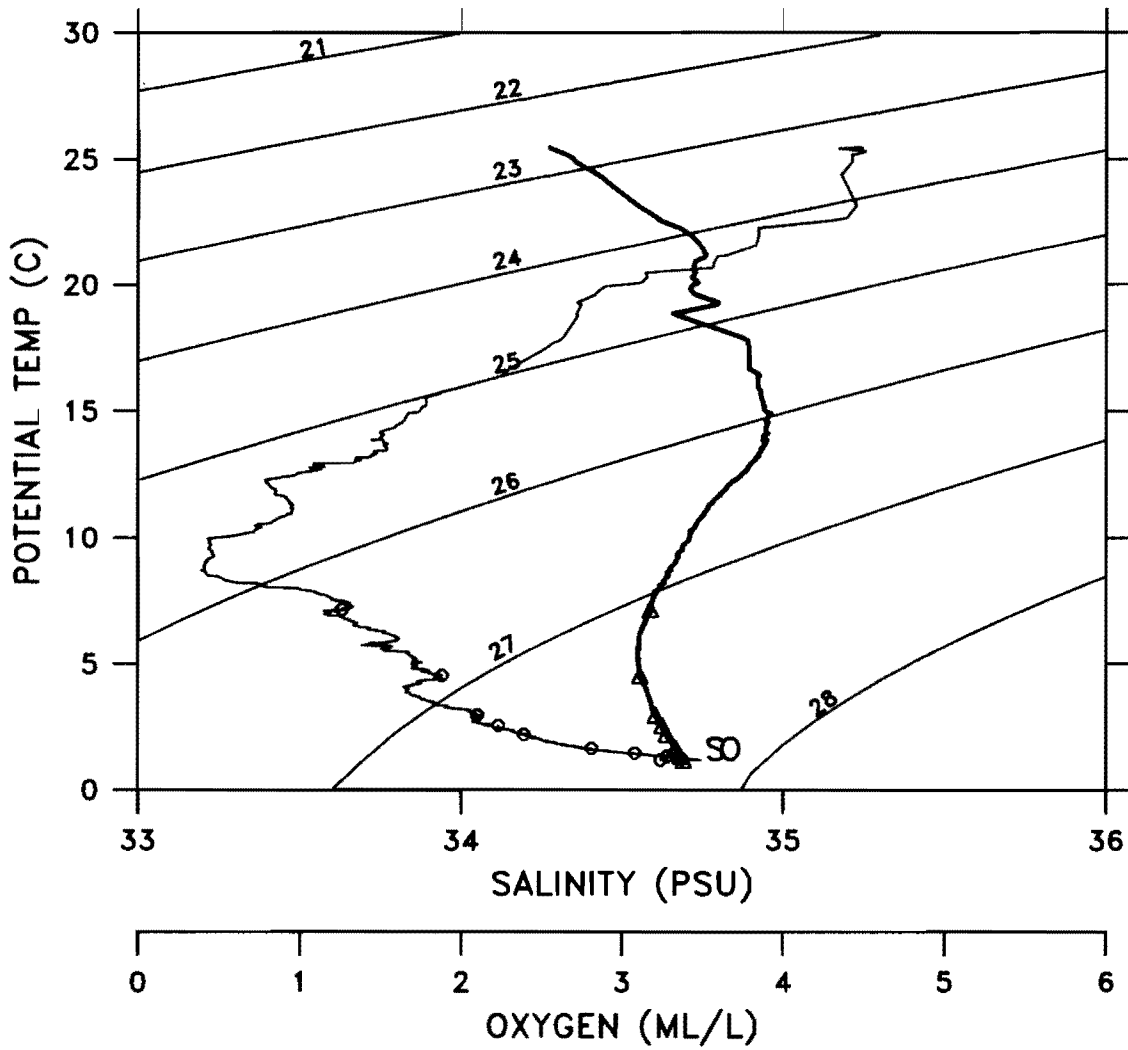


CAST EP2-88-OC -031 DATE 04 JUL 88 TIME 1400 GMT
 LAT 02 03.0N LONG 110 07.6W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 155 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 22.6 WET 20.5 DEPTH 3857 M

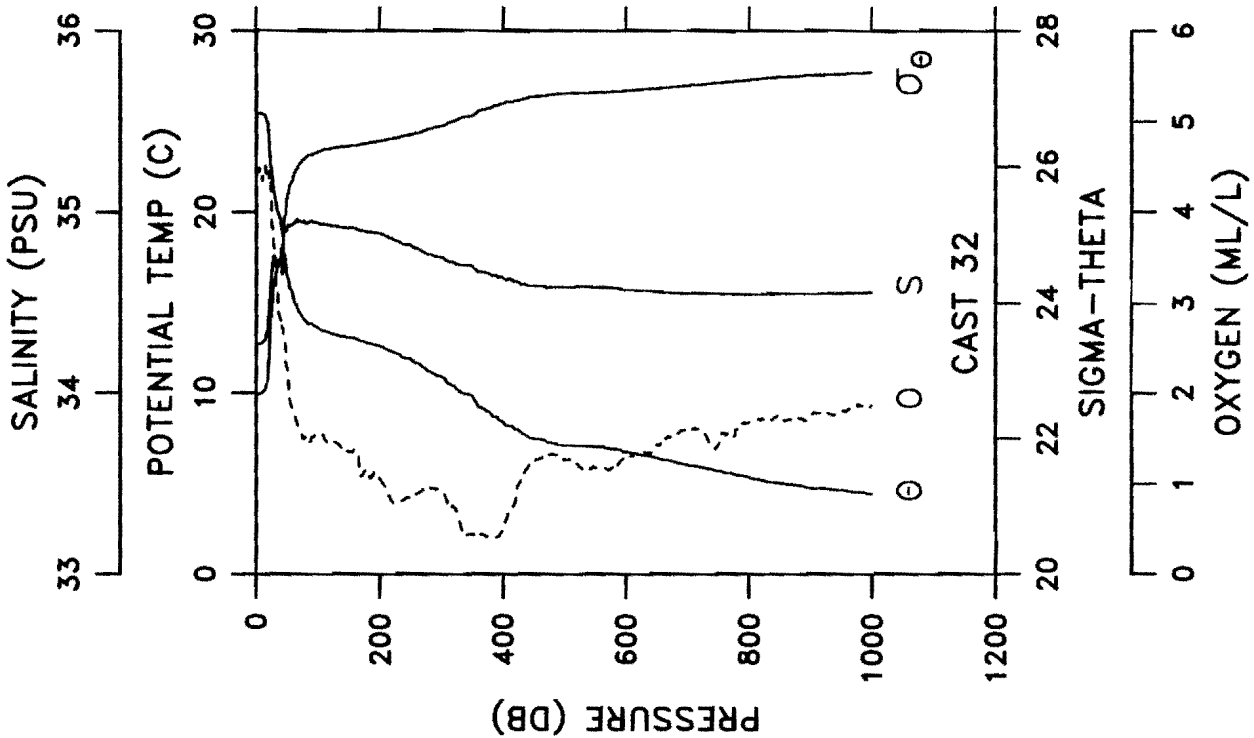


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.452 | 34.268 | 4.56 | 22.652 | 0.000 |
| 10 | 25.453 | 34.268 | 4.64 | 22.652 | 0.052 |
| 20 | 23.652 | 34.500 | 4.59 | 23.367 | 0.102 |
| 30 | 21.791 | 34.741 | 3.92 | 24.081 | 0.143 |
| 40 | 18.618 | 34.806 | 2.96 | 24.971 | 0.178 |
| 50 | 16.477 | 34.907 | 2.28 | 25.566 | 0.205 |
| 60 | 15.224 | 34.945 | 1.76 | 25.881 | 0.227 |
| 70 | 14.577 | 34.954 | 1.60 | 26.030 | 0.248 |
| 80 | 14.128 | 34.955 | 1.56 | 26.126 | 0.267 |
| 90 | 13.885 | 34.952 | 1.52 | 26.175 | 0.286 |
| 100 | 13.712 | 34.942 | 1.55 | 26.203 | 0.305 |
| 110 | 13.551 | 34.938 | 1.55 | 26.233 | 0.323 |
| 120 | 13.473 | 34.932 | 1.49 | 26.245 | 0.341 |
| 130 | 13.326 | 34.923 | 1.47 | 26.268 | 0.359 |
| 140 | 13.223 | 34.919 | 1.37 | 26.286 | 0.377 |
| 150 | 13.154 | 34.917 | 1.45 | 26.298 | 0.394 |
| 160 | 13.123 | 34.915 | 1.42 | 26.303 | 0.412 |
| 170 | 13.039 | 34.907 | 1.35 | 26.314 | 0.429 |
| 180 | 12.899 | 34.893 | 1.01 | 26.331 | 0.447 |
| 190 | 12.789 | 34.886 | 0.96 | 26.347 | 0.464 |
| 200 | 12.684 | 34.879 | 0.85 | 26.363 | 0.481 |
| 250 | 11.951 | 34.824 | 0.87 | 26.462 | 0.565 |
| 300 | 11.024 | 34.757 | 0.96 | 26.582 | 0.643 |
| 305 | 10.935 | 34.754 | 0.95 | 26.596 | 0.651 |

CAST EP2-88-OC -032 DATE 04 JUL 88 TIME 1756 GMT
LAT 02 02.3N LONG 110 09.0W

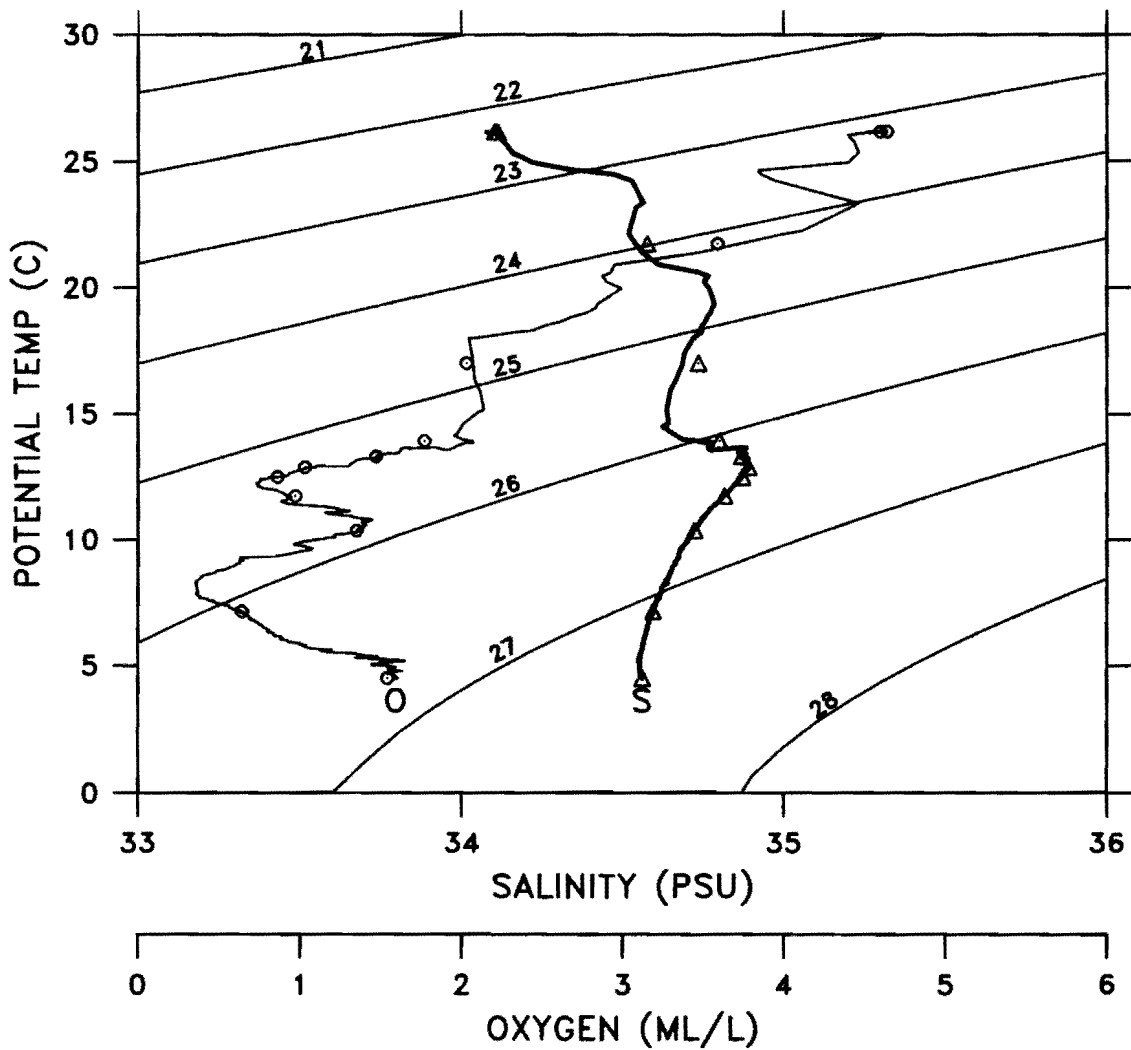


CAST EP2-88-OC -032 DATE 04 JUL 88 TIME 1756 GMT
 LAT 02 02.3N LONG 110 09.0W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 155 T SPD 13 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 25.8 WET 22.8 DEPTH 3785 M

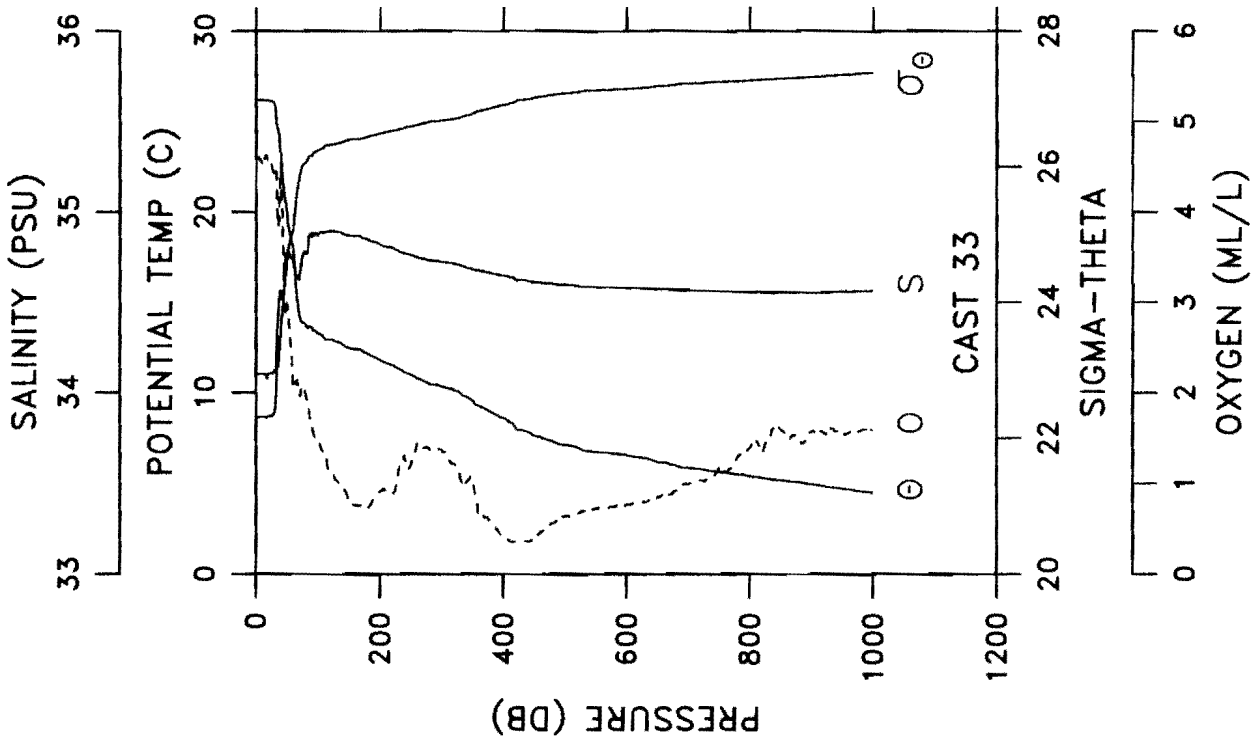


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH (DYN-M) | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|----------------|-----------------|
| 0 | 25.455 | 34.275 | 4.44 | 22.657 | 0.000 |
| 10 | 25.426 | 34.278 | 4.34 | 22.667 | 0.052 |
| 20 | 24.378 | 34.427 | 4.36 | 23.097 | 0.103 |
| 30 | 20.906 | 34.727 | 3.57 | 24.313 | 0.143 |
| 40 | 19.304 | 34.799 | 2.72 | 24.791 | 0.177 |
| 50 | 16.487 | 34.921 | 2.27 | 25.575 | 0.205 |
| 60 | 15.201 | 34.940 | 1.78 | 25.883 | 0.228 |
| 70 | 14.503 | 34.951 | 1.62 | 26.043 | 0.248 |
| 80 | 14.017 | 34.939 | 1.51 | 26.137 | 0.268 |
| 90 | 13.860 | 34.952 | 1.51 | 26.180 | 0.286 |
| 100 | 13.637 | 34.942 | 1.53 | 26.219 | 0.305 |
| 110 | 13.435 | 34.933 | 1.51 | 26.253 | 0.323 |
| 120 | 13.334 | 34.926 | 1.47 | 26.268 | 0.341 |
| 130 | 13.238 | 34.923 | 1.45 | 26.286 | 0.358 |
| 140 | 13.151 | 34.917 | 1.36 | 26.299 | 0.376 |
| 150 | 13.079 | 34.914 | 1.35 | 26.311 | 0.393 |
| 160 | 13.050 | 34.911 | 1.37 | 26.315 | 0.411 |
| 170 | 12.898 | 34.898 | 1.09 | 26.335 | 0.428 |
| 180 | 12.780 | 34.891 | 1.15 | 26.353 | 0.445 |
| 190 | 12.692 | 34.889 | 1.13 | 26.369 | 0.462 |
| 200 | 12.613 | 34.883 | 1.05 | 26.380 | 0.479 |
| 250 | 11.879 | 34.817 | 0.85 | 26.470 | 0.562 |
| 300 | 10.892 | 34.750 | 0.91 | 26.601 | 0.640 |
| 350 | 9.830 | 34.702 | 0.44 | 26.748 | 0.711 |
| 400 | 8.397 | 34.637 | 0.51 | 26.929 | 0.774 |
| 450 | 7.488 | 34.594 | 1.24 | 27.030 | 0.831 |
| 500 | 7.128 | 34.587 | 1.27 | 27.076 | 0.885 |
| 550 | 7.034 | 34.588 | 1.18 | 27.090 | 0.938 |
| 600 | 6.755 | 34.575 | 1.30 | 27.118 | 0.990 |
| 650 | 6.413 | 34.563 | 1.43 | 27.154 | 1.041 |
| 700 | 6.031 | 34.554 | 1.61 | 27.196 | 1.090 |
| 750 | 5.707 | 34.553 | 1.43 | 27.236 | 1.138 |
| 800 | 5.347 | 34.548 | 1.67 | 27.276 | 1.183 |
| 900 | 4.779 | 34.553 | 1.74 | 27.346 | 1.268 |
| 1000 | 4.422 | 34.558 | 1.87 | 27.389 | 1.350 |
| 1500 | 2.973 | 34.603 | 2.09 | 27.571 | 1.691 |
| 2000 | 2.214 | 34.637 | 2.38 | 27.664 | 1.978 |
| 2500 | 1.667 | 34.665 | 2.77 | 27.729 | 2.228 |
| 3000 | 1.460 | 34.673 | 3.04 | 27.751 | 2.460 |
| 3500 | 1.238 | 34.687 | 3.39 | 27.777 | 2.683 |
| 3820 | 1.189 | 34.689 | 3.47 | 27.782 | 2.823 |

CAST EP2-88-OC -033 DATE 05 JUL 88 TIME 0019 GMT
LAT 02 59.6N LONG 109 59.8W

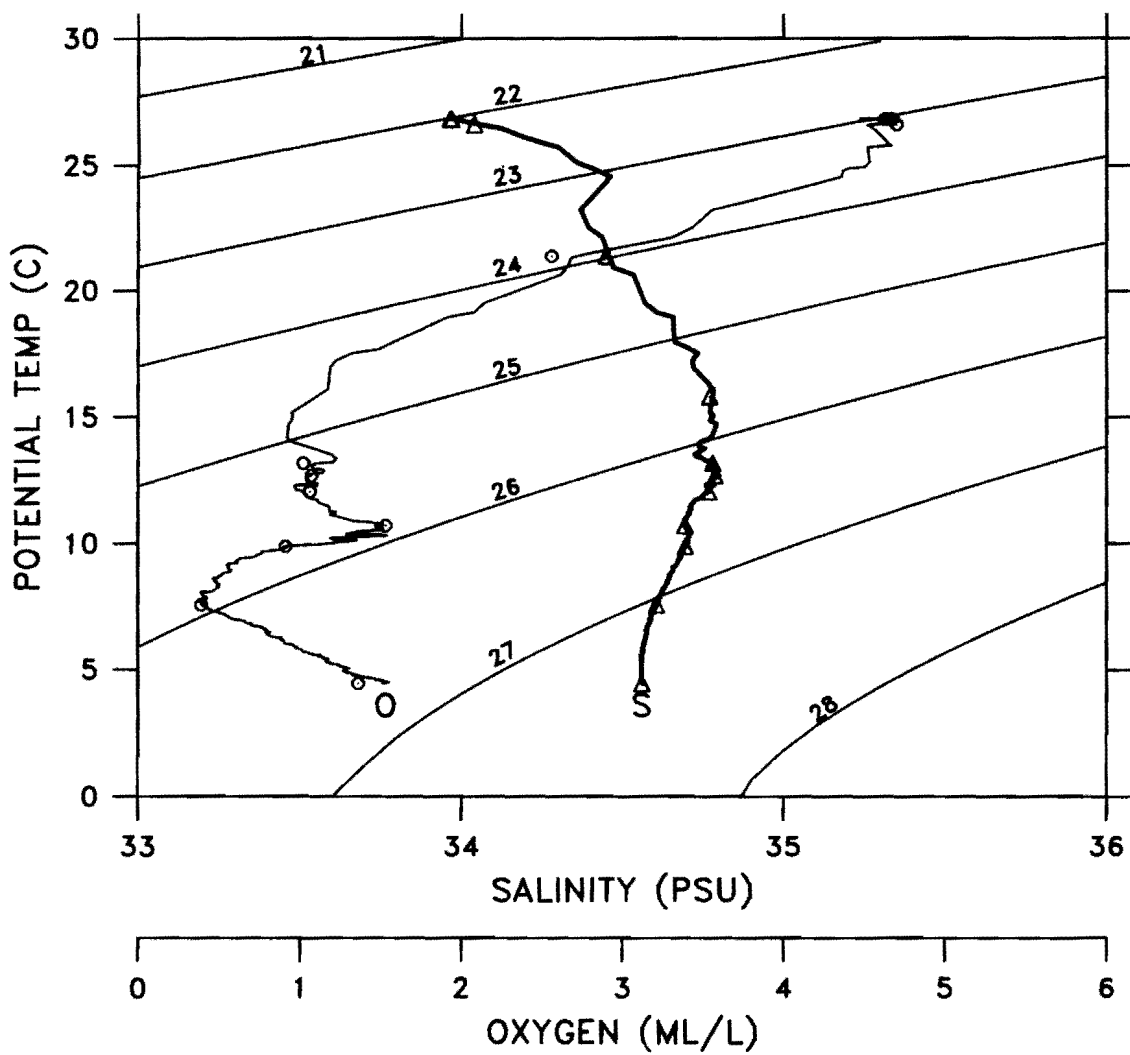


CAST EP2-88-OC -033 DATE 05 JUL 88 TIME 0019 GMT
 LAT 02 59.6N LONG 109 59.8W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 190 T SPD 20 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 24.6 WET 21.3 DEPTH 3882 M

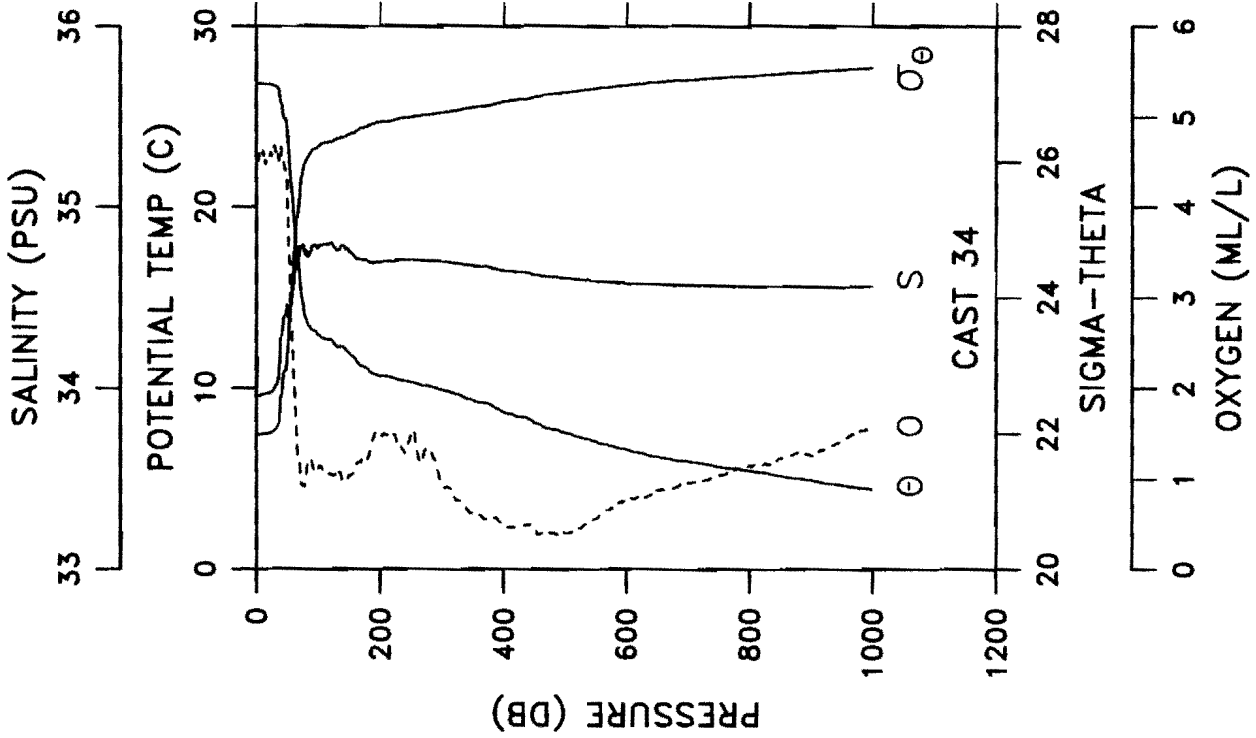


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.164 | 34.104 | 4.60 | 22.308 | 0.000 |
| 10 | 26.164 | 34.104 | 4.51 | 22.308 | 0.055 |
| 20 | 26.144 | 34.105 | 4.55 | 22.315 | 0.110 |
| 30 | 25.951 | 34.118 | 4.41 | 22.385 | 0.165 |
| 40 | 23.207 | 34.542 | 4.42 | 23.528 | 0.214 |
| 50 | 19.972 | 34.768 | 2.99 | 24.594 | 0.252 |
| 60 | 17.971 | 34.718 | 2.05 | 25.065 | 0.283 |
| 70 | 14.237 | 34.656 | 1.97 | 25.872 | 0.307 |
| 80 | 13.767 | 34.773 | 1.98 | 26.061 | 0.328 |
| 90 | 13.629 | 34.864 | 1.63 | 26.160 | 0.346 |
| 100 | 13.255 | 34.872 | 1.48 | 26.243 | 0.365 |
| 110 | 13.022 | 34.884 | 1.31 | 26.299 | 0.382 |
| 120 | 12.940 | 34.891 | 1.11 | 26.321 | 0.400 |
| 130 | 12.835 | 34.890 | 1.03 | 26.341 | 0.417 |
| 140 | 12.671 | 34.879 | 0.95 | 26.365 | 0.434 |
| 150 | 12.474 | 34.869 | 0.81 | 26.396 | 0.451 |
| 160 | 12.410 | 34.865 | 0.76 | 26.406 | 0.467 |
| 170 | 12.372 | 34.860 | 0.76 | 26.409 | 0.484 |
| 180 | 12.152 | 34.844 | 0.74 | 26.440 | 0.500 |
| 190 | 11.996 | 34.834 | 0.84 | 26.461 | 0.516 |
| 200 | 11.804 | 34.819 | 0.90 | 26.486 | 0.532 |
| 250 | 10.994 | 34.759 | 1.20 | 26.590 | 0.610 |
| 300 | 10.336 | 34.721 | 1.36 | 26.676 | 0.682 |
| 350 | 9.552 | 34.681 | 1.02 | 26.778 | 0.752 |
| 400 | 8.612 | 34.648 | 0.42 | 26.904 | 0.815 |
| 450 | 7.656 | 34.611 | 0.42 | 27.019 | 0.873 |
| 500 | 7.135 | 34.596 | 0.64 | 27.082 | 0.928 |
| 550 | 6.746 | 34.582 | 0.73 | 27.124 | 0.979 |
| 600 | 6.570 | 34.578 | 0.77 | 27.145 | 1.030 |
| 650 | 6.190 | 34.569 | 0.84 | 27.188 | 1.079 |
| 700 | 5.860 | 34.564 | 1.00 | 27.226 | 1.127 |
| 750 | 5.643 | 34.560 | 1.16 | 27.250 | 1.173 |
| 800 | 5.408 | 34.554 | 1.39 | 27.274 | 1.218 |
| 900 | 4.961 | 34.553 | 1.57 | 27.326 | 1.305 |
| 1000 | 4.490 | 34.561 | 1.59 | 27.385 | 1.387 |
| 1002 | 4.485 | 34.562 | 1.59 | 27.386 | 1.389 |

CAST EP2-88-OC -034 DATE 05 JUL 88 TIME 0534 GMT
LAT 04 00.3N LONG 110 00.1W

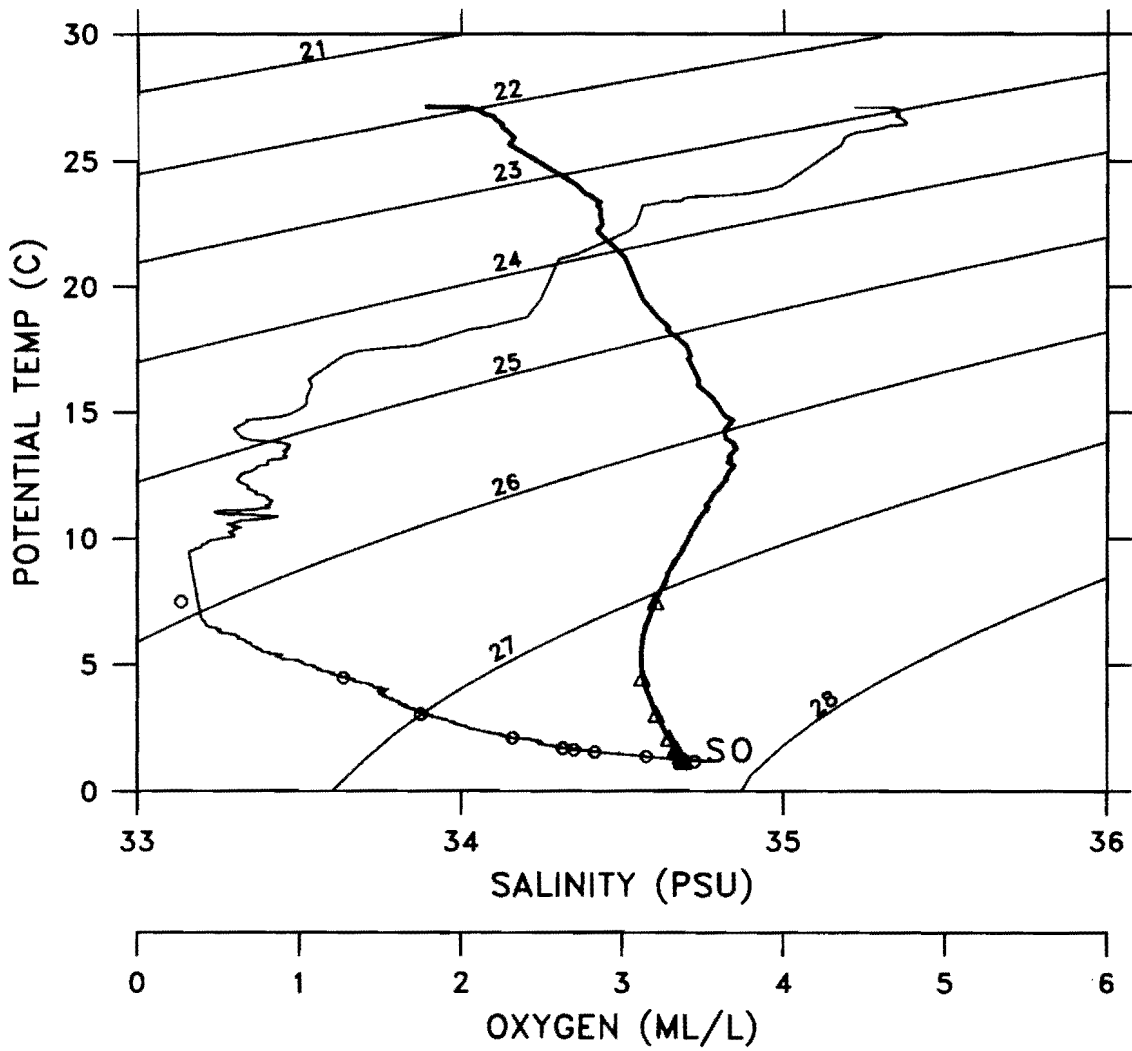


CAST EP2-88-0C -034 DATE 05 JUL 88 TIME 0534 GMT
 LAT 04 00.3N LONG 110 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 180 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 25.0 WET 22.4 DEPTH 3882 M

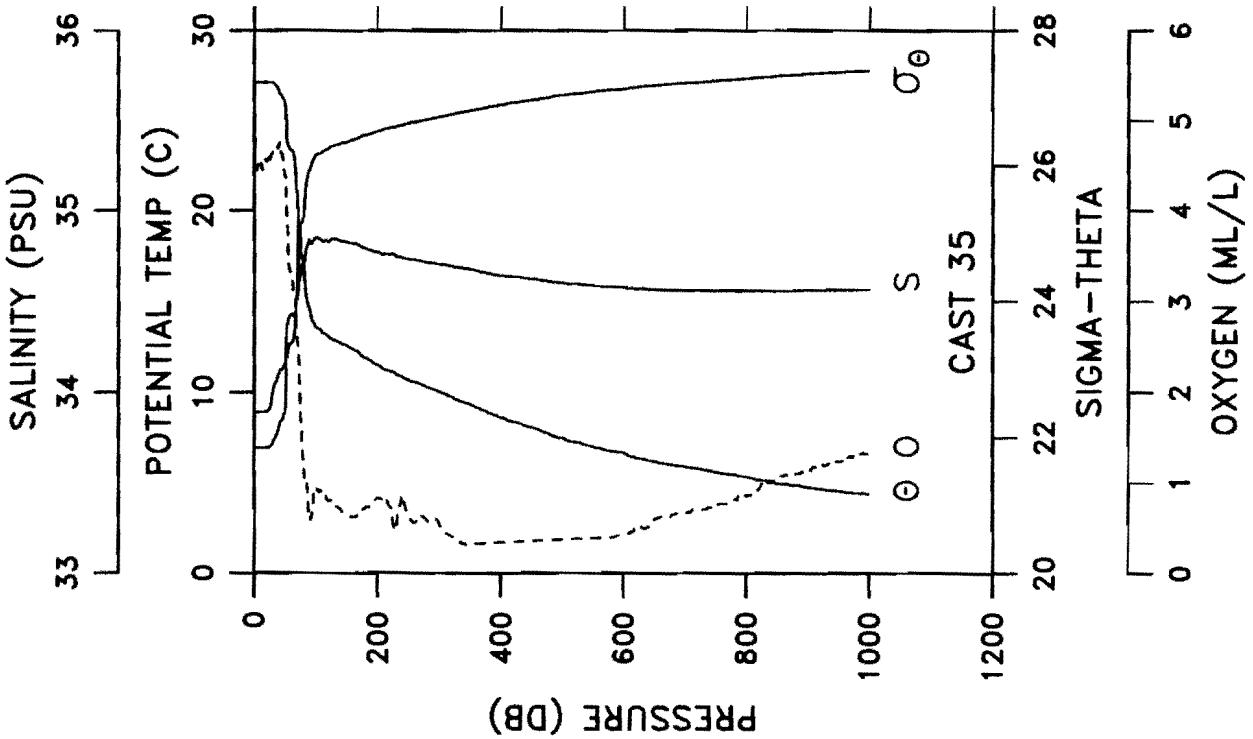


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.830 | 33.957 | 4.51 | 21.988 | 0.000 |
| 10 | 26.819 | 33.967 | 4.59 | 21.999 | 0.058 |
| 20 | 26.813 | 33.970 | 4.54 | 22.003 | 0.116 |
| 30 | 26.711 | 34.011 | 4.69 | 22.066 | 0.174 |
| 40 | 25.801 | 34.275 | 4.67 | 22.550 | 0.231 |
| 50 | 24.116 | 34.432 | 4.10 | 23.179 | 0.281 |
| 60 | 19.523 | 34.569 | 2.14 | 24.559 | 0.321 |
| 70 | 16.095 | 34.783 | 1.17 | 25.560 | 0.350 |
| 80 | 13.842 | 34.738 | 1.04 | 26.019 | 0.372 |
| 90 | 13.219 | 34.785 | 1.19 | 26.183 | 0.391 |
| 100 | 12.960 | 34.777 | 1.10 | 26.229 | 0.409 |
| 110 | 12.748 | 34.794 | 1.06 | 26.284 | 0.427 |
| 120 | 12.690 | 34.799 | 1.05 | 26.299 | 0.445 |
| 130 | 12.297 | 34.758 | 1.11 | 26.345 | 0.462 |
| 140 | 12.298 | 34.785 | 0.97 | 26.365 | 0.479 |
| 150 | 11.936 | 34.752 | 1.04 | 26.409 | 0.496 |
| 160 | 11.612 | 34.720 | 1.11 | 26.445 | 0.512 |
| 170 | 11.247 | 34.708 | 1.22 | 26.504 | 0.528 |
| 180 | 11.087 | 34.701 | 1.22 | 26.528 | 0.543 |
| 190 | 10.803 | 34.690 | 1.48 | 26.570 | 0.558 |
| 200 | 10.687 | 34.694 | 1.47 | 26.594 | 0.573 |
| 250 | 10.340 | 34.708 | 1.53 | 26.666 | 0.646 |
| 300 | 9.916 | 34.697 | 0.94 | 26.730 | 0.716 |
| 350 | 9.348 | 34.677 | 0.61 | 26.809 | 0.783 |
| 400 | 8.693 | 34.648 | 0.49 | 26.891 | 0.847 |
| 450 | 8.117 | 34.623 | 0.46 | 26.961 | 0.907 |
| 500 | 7.558 | 34.606 | 0.40 | 27.030 | 0.964 |
| 550 | 7.088 | 34.590 | 0.56 | 27.084 | 1.018 |
| 600 | 6.649 | 34.577 | 0.77 | 27.133 | 1.070 |
| 650 | 6.258 | 34.573 | 0.88 | 27.182 | 1.119 |
| 700 | 5.991 | 34.566 | 0.96 | 27.211 | 1.167 |
| 750 | 5.689 | 34.563 | 1.04 | 27.246 | 1.214 |
| 800 | 5.468 | 34.560 | 1.15 | 27.272 | 1.259 |
| 800 | 4.961 | 34.559 | 1.27 | 27.331 | 1.346 |
| 1000 | 4.457 | 34.564 | 1.53 | 27.391 | 1.428 |
| 1000 | 4.457 | 34.564 | 1.53 | 27.391 | 1.428 |

CAST EP2-88-OC -035 DATE 05 JUL 88 TIME 1146 GMT
LAT 05 00.1N LONG 110 00.0W

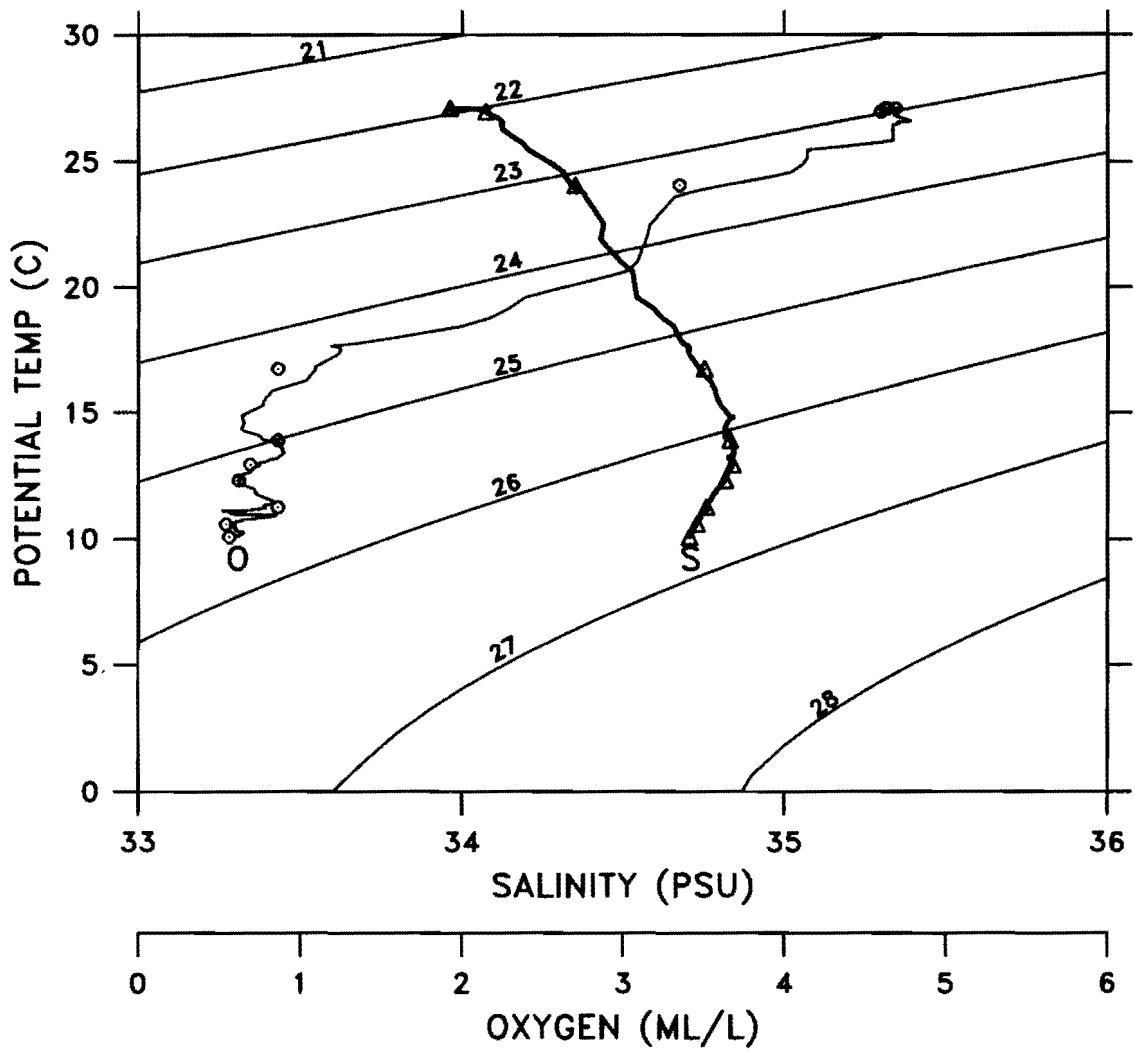


CAST EP2-88-OC -035 DATE 05 JUL 88 TIME 1146 GMT
 LAT 05 00.1N LONG 110 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 175 T SPD 23 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 24.9 WET 22.2 DEPTH 3901 M

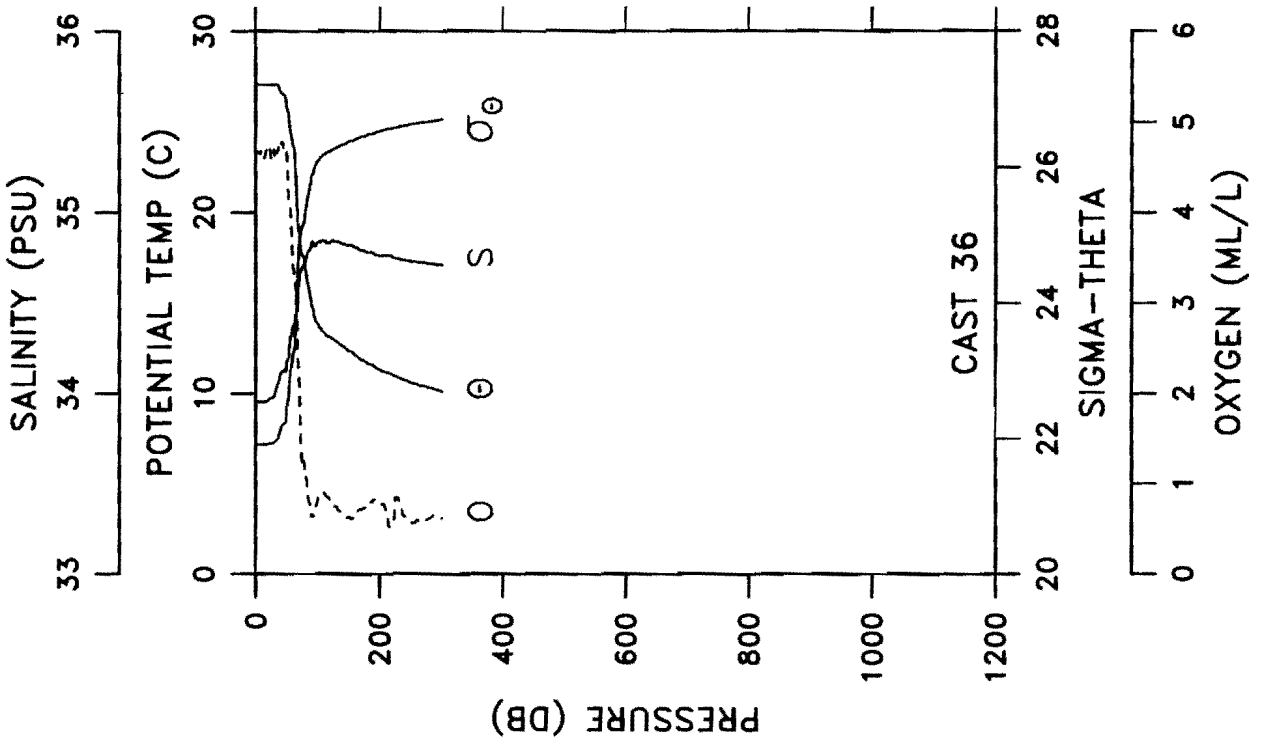


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.105 | 33.893 | 4.44 | 21.853 | 0.000 |
| 10 | 27.110 | 33.894 | 4.52 | 21.852 | 0.060 |
| 20 | 27.110 | 33.896 | 4.54 | 21.854 | 0.119 |
| 30 | 27.101 | 34.004 | 4.66 | 21.937 | 0.179 |
| 40 | 26.638 | 34.104 | 4.74 | 22.160 | 0.236 |
| 50 | 25.915 | 34.163 | 4.37 | 22.430 | 0.292 |
| 60 | 23.364 | 34.431 | 3.23 | 23.398 | 0.339 |
| 70 | 20.295 | 34.535 | 2.55 | 24.330 | 0.382 |
| 80 | 17.106 | 34.702 | 1.24 | 25.262 | 0.411 |
| 90 | 14.514 | 34.829 | 0.64 | 25.947 | 0.434 |
| 100 | 13.571 | 34.853 | 0.92 | 26.163 | 0.454 |
| 110 | 13.251 | 34.832 | 0.90 | 26.212 | 0.472 |
| 120 | 13.038 | 34.826 | 0.80 | 26.251 | 0.490 |
| 130 | 12.861 | 34.843 | 0.74 | 26.300 | 0.508 |
| 140 | 12.683 | 34.834 | 0.71 | 26.328 | 0.525 |
| 150 | 12.570 | 34.826 | 0.64 | 26.344 | 0.543 |
| 160 | 12.359 | 34.817 | 0.61 | 26.378 | 0.560 |
| 170 | 12.137 | 34.810 | 0.67 | 26.415 | 0.576 |
| 180 | 11.890 | 34.792 | 0.72 | 26.449 | 0.593 |
| 190 | 11.719 | 34.781 | 0.78 | 26.473 | 0.609 |
| 200 | 11.503 | 34.772 | 0.83 | 26.506 | 0.625 |
| 250 | 10.696 | 34.734 | 0.62 | 26.624 | 0.700 |
| 300 | 10.035 | 34.706 | 0.54 | 26.717 | 0.771 |
| 350 | 9.351 | 34.677 | 0.32 | 26.809 | 0.839 |
| 400 | 8.625 | 34.643 | 0.34 | 26.898 | 0.902 |
| 450 | 8.081 | 34.626 | 0.35 | 26.968 | 0.962 |
| 500 | 7.514 | 34.605 | 0.37 | 27.035 | 1.018 |
| 550 | 7.021 | 34.589 | 0.39 | 27.092 | 1.072 |
| 600 | 6.685 | 34.578 | 0.41 | 27.130 | 1.124 |
| 650 | 6.195 | 34.566 | 0.59 | 27.185 | 1.173 |
| 700 | 5.901 | 34.561 | 0.66 | 27.219 | 1.221 |
| 750 | 5.608 | 34.560 | 0.75 | 27.254 | 1.267 |
| 800 | 5.345 | 34.560 | 0.85 | 27.286 | 1.312 |
| 900 | 4.758 | 34.561 | 1.14 | 27.355 | 1.396 |
| 1000 | 4.380 | 34.568 | 1.33 | 27.402 | 1.476 |
| 1500 | 2.964 | 34.609 | 1.81 | 27.576 | 1.818 |
| 2000 | 2.120 | 34.644 | 2.29 | 27.677 | 2.100 |
| 2500 | 1.683 | 34.666 | 2.64 | 27.729 | 2.346 |
| 3000 | 1.516 | 34.674 | 2.87 | 27.747 | 2.581 |
| 3500 | 1.252 | 34.686 | 3.33 | 27.776 | 2.806 |
| 3941 | 1.164 | 34.690 | 3.54 | 27.785 | 3.000 |

CAST EP2-88-OC -036 DATE 05 JUL 88 TIME 1456 GMT
LAT 04 58.2N LONG 109 59.2W

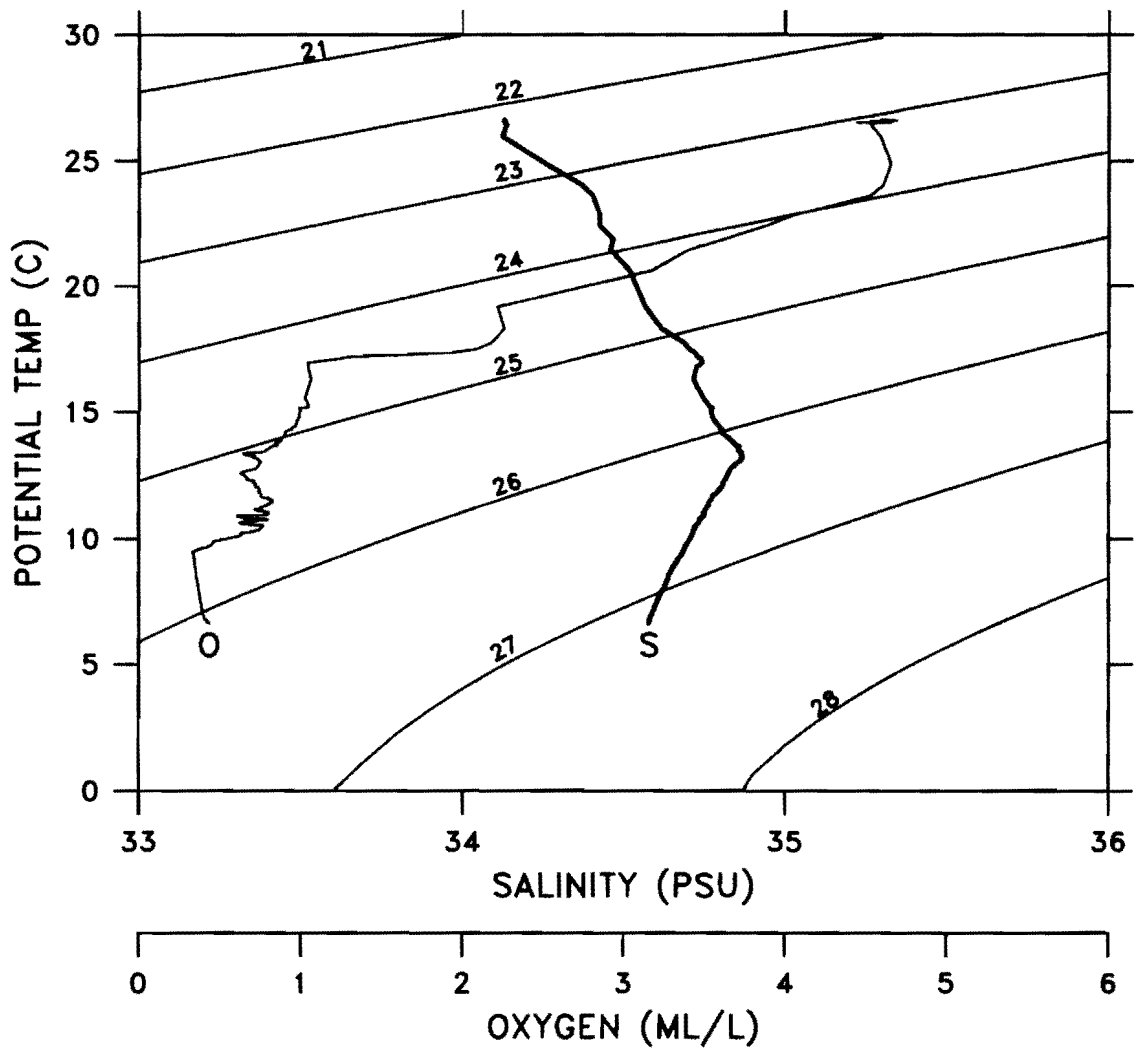


CAST EP2-88-OC -036 DATE 05 JUL 88 TIME 1456 GMT
 LAT 04 58.2N LONG 109 59.2W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 185 T SPD 25 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 25.6 WET 22.1 DEPTH 3919 M

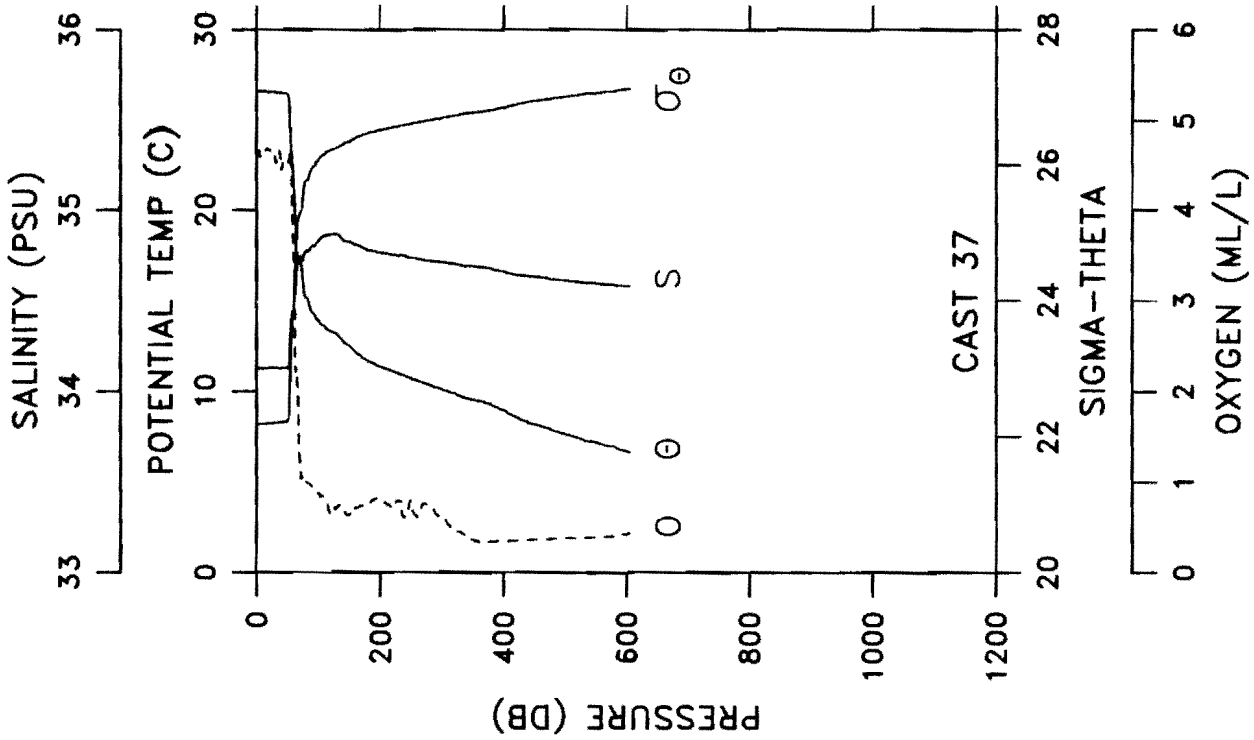


| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 27.071 | 33.954 | 4.67 | 21.910 | 0.000 |
| 10 | 27.061 | 33.954 | 4.66 | 21.913 | 0.059 |
| 20 | 27.066 | 33.962 | 4.68 | 21.917 | 0.118 |
| 30 | 27.069 | 33.984 | 4.70 | 21.933 | 0.177 |
| 40 | 26.723 | 34.108 | 4.71 | 22.136 | 0.235 |
| 50 | 25.839 | 34.172 | 4.68 | 22.460 | 0.291 |
| 60 | 23.736 | 34.377 | 3.40 | 23.249 | 0.342 |
| 70 | 18.786 | 34.619 | 2.17 | 24.786 | 0.382 |
| 80 | 16.806 | 34.733 | 1.08 | 25.357 | 0.411 |
| 90 | 14.879 | 34.829 | 0.64 | 25.868 | 0.435 |
| 100 | 13.888 | 34.834 | 0.80 | 26.083 | 0.455 |
| 110 | 13.410 | 34.842 | 0.90 | 26.188 | 0.474 |
| 120 | 13.145 | 34.835 | 0.82 | 26.236 | 0.493 |
| 130 | 12.895 | 34.837 | 0.75 | 26.289 | 0.510 |
| 140 | 12.626 | 34.826 | 0.69 | 26.333 | 0.528 |
| 150 | 12.334 | 34.817 | 0.63 | 26.384 | 0.545 |
| 160 | 12.149 | 34.805 | 0.63 | 26.410 | 0.561 |
| 170 | 11.873 | 34.790 | 0.72 | 26.451 | 0.578 |
| 180 | 11.653 | 34.775 | 0.78 | 26.481 | 0.594 |
| 190 | 11.531 | 34.773 | 0.83 | 26.502 | 0.610 |
| 200 | 11.327 | 34.759 | 0.77 | 26.528 | 0.625 |
| 250 | 10.602 | 34.730 | 0.59 | 26.637 | 0.700 |
| 300 | 10.126 | 34.708 | 0.62 | 26.703 | 0.771 |
| 302 | 10.084 | 34.709 | 0.61 | 26.711 | 0.774 |

CAST EP2-88-OC -037 DATE 06 JUL 88 TIME 2013 GMT
LAT 05 03.4N LONG 110 01.4W



CAST EP2-88-OC -037 DATE 06 JUL 88 TIME 2013 GMT
 LAT 05 03.4N LONG 110 01.4W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 165 T SPD 21 KT VISIBILITY 8
 CLOUD 2 AMOUNT 2 DRY 25.1 WET 23.0 DEPTH 3920 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | OXY (ML/L) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|------------|--------|-----------------|
| 0 | 26.617 | 34.129 | 4.66 | 22.185 | 0.000 |
| 10 | 26.608 | 34.129 | 4.60 | 22.188 | 0.056 |
| 20 | 26.578 | 34.130 | 4.66 | 22.198 | 0.113 |
| 30 | 26.557 | 34.131 | 4.60 | 22.205 | 0.169 |
| 40 | 26.517 | 34.129 | 4.44 | 22.217 | 0.225 |
| 50 | 26.471 | 34.133 | 4.53 | 22.234 | 0.281 |
| 60 | 21.468 | 34.457 | 3.40 | 23.955 | 0.330 |
| 70 | 17.131 | 34.741 | 1.25 | 25.285 | 0.361 |
| 80 | 15.168 | 34.773 | 1.02 | 25.761 | 0.385 |
| 90 | 14.353 | 34.799 | 0.94 | 25.958 | 0.407 |
| 100 | 13.893 | 34.832 | 0.88 | 26.081 | 0.427 |
| 110 | 13.598 | 34.856 | 0.81 | 26.160 | 0.446 |
| 120 | 13.313 | 34.866 | 0.65 | 26.226 | 0.464 |
| 130 | 13.152 | 34.866 | 0.72 | 26.259 | 0.483 |
| 140 | 12.755 | 34.833 | 0.73 | 26.313 | 0.500 |
| 150 | 12.529 | 34.823 | 0.64 | 26.350 | 0.517 |
| 160 | 12.166 | 34.808 | 0.72 | 26.409 | 0.534 |
| 170 | 11.885 | 34.793 | 0.74 | 26.451 | 0.550 |
| 180 | 11.702 | 34.776 | 0.75 | 26.472 | 0.567 |
| 190 | 11.550 | 34.772 | 0.81 | 26.498 | 0.582 |
| 200 | 11.388 | 34.765 | 0.82 | 26.522 | 0.598 |
| 250 | 10.739 | 34.734 | 0.74 | 26.616 | 0.673 |
| 300 | 10.112 | 34.709 | 0.62 | 26.706 | 0.745 |
| 350 | 9.561 | 34.687 | 0.36 | 26.782 | 0.813 |
| 400 | 8.976 | 34.660 | 0.35 | 26.856 | 0.878 |
| 450 | 8.190 | 34.630 | 0.36 | 26.955 | 0.939 |
| 500 | 7.641 | 34.607 | 0.38 | 27.019 | 0.997 |
| 550 | 7.193 | 34.593 | 0.39 | 27.071 | 1.052 |
| 600 | 6.693 | 34.579 | 0.42 | 27.129 | 1.104 |
| 605 | 6.643 | 34.577 | 0.43 | 27.135 | 1.109 |

CAST EP2-88-OC -004 LAT 00 01.5S LONG 139 49.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 23.928 | 35.229 | 1.57 | 23.927 | 23.838 |
| 12. | 23.594 | 35.230 | 1.47 | 23.592 | 23.938 |
| 19. | 23.504 | 35.226 | 1.62 | 23.500 | 23.961 |
| 39. | 23.156 | 35.209 | 1.53 | 23.148 | 24.051 |
| 200. | 12.719 | 34.871 | 0.93 | 12.692 | 26.355 |
| 248. | 12.126 | 34.859 | 0.70 | 12.093 | 26.462 |

CAST EP2-88-OC -005 LAT 00 01.5N LONG 134 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 498. | 8.804 | 34.665 | 0.19 | 8.750 | 26.896 |
| 996. | 4.609 | 34.554 | 0.63 | 4.529 | 27.375 |
| 1496. | 3.041 | 34.604 | 0.73 | 2.933 | 27.575 |
| 1745. | 2.652 | 34.622 | 0.77 | 2.528 | 27.625 |
| 1996. | 2.262 | 34.643 | 0.84 | 2.122 | 27.676 |
| 2493. | 1.844 | 34.665 | 0.99 | 1.667 | 27.729 |
| 2995. | 1.684 | 34.674 | 1.10 | 1.464 | 27.751 |
| 3496. | 1.516 | 34.686 | 1.23 | 1.250 | 27.776 |
| 4009. | 1.408 | 34.693 | 1.36 | 1.091 | 27.793 |
| 4385. | 1.443 | 34.693 | 1.36 | 1.083 | 27.793 |

CAST EP2-88-OC -006 LAT 00 01.8N LONG 134 58.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 9. | 22.264 | 35.000 | 1.49 | 22.262 | 24.146 |
| 20. | 22.055 | 35.000 | 1.56 | 22.051 | 24.205 |
| 42. | 21.607 | 35.004 | 1.52 | 21.599 | 24.334 |
| 60. | 20.638 | 35.018 | 1.41 | 20.627 | 24.610 |
| 150. | 14.365 | 34.886 | 1.13 | 14.343 | 26.027 |
| 200. | 12.741 | 34.899 | 0.93 | 12.714 | 26.372 |
| 249. | 12.048 | 34.851 | 0.56 | 12.015 | 26.471 |
| 301. | 11.449 | 34.819 | 0.44 | 11.411 | 26.560 |

CAST EP2-88-OC -001 LAT 05 01.4N LONG 139 59.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 19. | 27.168 | 34.766 | 1.51 | 27.164 | 22.491 |
| 147. | 12.319 | 34.686 | 0.94 | 12.300 | 26.288 |
| 197. | 11.642 | 34.794 | 0.70 | 11.617 | 26.502 |
| 296. | 10.489 | 34.739 | 0.50 | 10.453 | 26.670 |
| 496. | 8.453 | 34.627 | 0.32 | 8.400 | 26.920 |
| 1003. | 4.535 | 34.559 | 0.51 | 4.455 | 27.387 |

CAST EP2-88-OC -002 LAT 02 00.8N LONG 140 01.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 24.130 | 35.114 | 1.61 | 24.129 | 23.691 |
| 22. | 24.129 | 35.114 | 1.62 | 24.124 | 23.692 |
| 40. | 24.046 | 35.110 | 1.66 | 24.038 | 23.715 |
| 118. | 13.816 | 34.837 | 0.55 | 13.799 | 26.104 |
| 149. | 13.110 | 34.901 | 0.34 | 13.089 | 26.299 |
| 198. | 12.355 | 34.860 | 0.24 | 12.329 | 26.418 |
| 299. | 11.131 | 34.780 | 0.35 | 11.094 | 26.588 |
| 499. | 8.239 | 34.630 | 0.33 | 8.187 | 26.955 |
| 1001. | 4.504 | 34.557 | 0.61 | 4.424 | 27.389 |

CAST EP2-88-OC -003 LAT 00 01.6S LONG 139 50.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 496. | 8.428 | 34.647 | 0.23 | 8.376 | 26.940 |
| 995. | 4.629 | 34.556 | 0.66 | 4.549 | 27.374 |
| 1494. | 3.051 | 34.605 | 0.75 | 2.943 | 27.575 |
| 1745. | 2.449 | 34.631 | 0.84 | 2.327 | 27.649 |
| 2002. | 2.200 | 34.647 | 0.86 | 2.060 | 27.684 |
| 2493. | 1.863 | 34.665 | 0.98 | 1.686 | 27.728 |
| 2992. | 1.669 | 34.676 | 1.11 | 1.449 | 27.754 |
| 3493. | 1.472 | 34.689 | 1.26 | 1.207 | 27.781 |
| 3998. | 1.403 | 34.695 | 1.37 | 1.087 | 27.794 |
| 4404. | 1.424 | 34.696 | 1.42 | 1.062 | 27.797 |

CAST EP2-88-OC -011 LAT 00 08.7N LONG 124 22.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 21.291 | 34.890 | 1.65 | 21.290 | 24.332 |
| 19. | 20.016 | 34.898 | 1.31 | 20.012 | 24.682 |
| 39. | 16.248 | 34.864 | 0.84 | 16.242 | 25.588 |
| 60. | 14.951 | 34.841 | 0.79 | 14.942 | 25.863 |
| 79. | 14.055 | 34.810 | 0.86 | 14.044 | 26.032 |
| 99. | 13.626 | 34.816 | 0.96 | 13.612 | 26.126 |
| 124. | 13.419 | 34.872 | 0.95 | 13.402 | 26.213 |
| 151. | 13.092 | 34.905 | 0.84 | 13.071 | 26.306 |
| 197. | 12.662 | 34.886 | 0.61 | 12.635 | 26.378 |
| 245. | 11.901 | 34.845 | 0.32 | 11.869 | 26.494 |
| 303. | 11.485 | 34.824 | 0.27 | 11.447 | 26.557 |

CAST EP2-88-OC -013 LAT 00 01.4N LONG 119 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 497. | 8.273 | 34.638 | 0.24 | 8.221 | 26.957 |
| 996. | 4.515 | 34.557 | 0.65 | 4.436 | 27.388 |
| 1494. | 3.060 | 34.604 | 0.72 | 2.952 | 27.573 |
| 1745. | 2.482 | 34.630 | 0.82 | 2.360 | 27.646 |
| 1997. | 2.240 | 34.646 | 0.83 | 2.100 | 27.680 |
| 2496. | 1.877 | 34.663 | 0.99 | 1.699 | 27.725 |
| 2997. | 1.674 | 34.675 | 1.11 | 1.454 | 27.753 |
| 3494. | 1.500 | 34.688 | 1.24 | 1.234 | 27.779 |
| 3994. | 1.435 | 34.694 | 1.36 | 1.119 | 27.792 |
| 4248. | 1.463 | 34.694 | 1.37 | 1.118 | 27.792 |

CAST EP2-88-OC -014 LAT 00 02.4N LONG 119 59.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 22.647 | 35.164 | 1.70 | 22.646 | 24.161 |
| 11. | 22.653 | 35.166 | 1.73 | 22.651 | 24.161 |
| 20. | 22.372 | 35.191 | 1.66 | 22.368 | 24.261 |
| 101. | 14.394 | 35.009 | 0.97 | 14.379 | 26.114 |
| 125. | 13.825 | 34.958 | 0.90 | 13.807 | 26.196 |
| 149. | 13.356 | 34.936 | 0.72 | 13.335 | 26.276 |
| 200. | 12.907 | 34.911 | 0.69 | 12.880 | 26.349 |
| 248. | 12.335 | 34.872 | 0.46 | 12.302 | 26.432 |
| 303. | 11.760 | 34.832 | 0.19 | 11.721 | 26.512 |

CAST EP2-88-OC -007 LAT 00 01.5S LONG 129 59.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 501. | 8.243 | 34.636 | 0.24 | 8.191 | 26.960 |
| 998. | 4.686 | 34.555 | 0.63 | 4.605 | 27.367 |
| 1491. | 3.034 | 34.604 | 0.72 | 2.926 | 27.576 |
| 1993. | 2.210 | 34.643 | 0.85 | 2.071 | 27.680 |
| 2484. | 1.900 | 34.663 | 0.96 | 1.723 | 27.723 |
| 2996. | 1.709 | 34.673 | 1.08 | 1.488 | 27.749 |
| 3495. | 1.527 | 34.686 | 1.21 | 1.261 | 27.775 |
| 3993. | 1.422 | 34.692 | 1.37 | 1.106 | 27.791 |
| 4194. | 1.439 | 34.694 | 1.39 | 1.100 | 27.793 |
| 4508. | 1.467 | 34.694 | 1.41 | 1.092 | 27.793 |

CAST EP2-88-OC -008 LAT 00 01.9S LONG 130 01.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 22.512 | 35.243 | 1.53 | 22.511 | 24.260 |
| 10. | 22.392 | 35.242 | 1.57 | 22.390 | 24.293 |
| 20. | 22.301 | 35.247 | 1.55 | 22.297 | 24.323 |
| 39. | 22.073 | 35.255 | 1.55 | 22.065 | 24.395 |
| 80. | 20.012 | 35.187 | 1.28 | 19.997 | 24.906 |
| 125. | 14.642 | 34.887 | 1.12 | 14.623 | 25.988 |
| 149. | 13.848 | 34.893 | 1.01 | 13.827 | 26.141 |
| 201. | 12.835 | 34.915 | 0.89 | 12.808 | 26.366 |
| 250. | 12.203 | 34.864 | 0.65 | 12.170 | 26.451 |
| 302. | 11.808 | 34.839 | 0.38 | 11.769 | 26.508 |

CAST EP2-88-OC -010 LAT 00 09.1N LONG 124 22.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 496. | 8.783 | 34.664 | 0.19 | 8.729 | 26.898 |
| 995. | 4.550 | 34.553 | 0.68 | 4.470 | 27.381 |
| 1494. | 3.093 | 34.603 | 0.70 | 2.985 | 27.570 |
| 2009. | 2.343 | 34.641 | 0.81 | 2.201 | 27.668 |
| 2352. | 1.931 | 34.660 | 0.95 | 1.765 | 27.718 |
| 2994. | 1.694 | 34.675 | 1.10 | 1.473 | 27.751 |
| 3494. | 1.515 | 34.687 | 1.21 | 1.249 | 27.777 |
| 4058. | 1.439 | 34.694 | 1.32 | 1.115 | 27.792 |
| 4294. | 1.463 | 34.694 | 1.34 | 1.113 | 27.792 |
| 4664. | 1.501 | 34.694 | 1.37 | 1.107 | 27.792 |

CAST EP2-88-OC -018 LAT 05 08.4S LONG 109 49.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 23.883 | 35.230 | 1.78 | 23.882 | 23.852 |
| 11. | 23.744 | 35.228 | 1.81 | 23.742 | 23.892 |
| 20. | 23.710 | 35.227 | 1.88 | 23.706 | 23.902 |
| 81. | 15.174 | 35.102 | 0.45 | 15.162 | 26.016 |
| 99. | 13.638 | 34.982 | 0.26 | 13.624 | 26.252 |
| 124. | 13.094 | 34.934 | 0.20 | 13.077 | 26.327 |
| 150. | 12.861 | 34.916 | 0.08 | 12.841 | 26.360 |
| 198. | 12.551 | 34.898 | 0.05 | 12.524 | 26.409 |
| 248. | 12.091 | 34.876 | 0.13 | 12.058 | 26.482 |
| 306. | 11.331 | 34.831 | 0.02 | 11.292 | 26.591 |

CAST EP2-88-OC -019 LAT 04 00.3S LONG 109 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 23.496 | 35.242 | 1.77 | 23.495 | 23.975 |
| 19. | 23.397 | 35.239 | 1.74 | 23.393 | 24.002 |
| 39. | 17.778 | 35.074 | 0.96 | 17.771 | 25.386 |
| 58. | 14.674 | 35.007 | 0.51 | 14.665 | 26.051 |
| 80. | 14.043 | 34.980 | 0.42 | 14.032 | 26.166 |
| 99. | 13.635 | 34.960 | 0.32 | 13.621 | 26.236 |
| 123. | 13.409 | 34.949 | 0.39 | 13.392 | 26.275 |
| 147. | 13.053 | 34.926 | 0.01 | 13.033 | 26.330 |
| 200. | 12.656 | 34.908 | 0.00 | 12.629 | 26.396 |
| 299. | 11.720 | 34.855 | 0.11 | 11.681 | 26.537 |
| 495. | 8.188 | 34.645 | 0.03 | 8.137 | 26.975 |
| 1010. | 4.639 | 34.546 | 0.76 | 4.558 | 27.365 |

CAST EP2-88-OC -020 LAT 02 59.3S LONG 110 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 22.884 | 35.268 | 1.75 | 22.883 | 24.172 |
| 40. | 16.174 | 35.100 | 0.59 | 16.168 | 25.787 |
| 60. | 14.121 | 34.990 | 0.42 | 14.112 | 26.156 |
| 81. | 13.605 | 34.962 | 0.24 | 13.594 | 26.243 |
| 99. | 13.368 | 34.948 | 0.16 | 13.354 | 26.281 |
| 124. | 12.997 | 34.925 | 0.05 | 12.980 | 26.339 |
| 149. | 12.728 | 34.907 | 0.28 | 12.708 | 26.380 |
| 200. | 12.307 | 34.878 | 0.10 | 12.281 | 26.441 |
| 299. | 11.324 | 34.825 | 0.00 | 11.286 | 26.587 |
| 499. | 7.925 | 34.628 | 0.28 | 7.874 | 27.001 |

CAST EP2-88-OC -015 LAT 00 00.3S LONG 114 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 7.915 | 34.622 | 0.26 | 7.864 | 26.997 |
| 996. | 4.652 | 34.555 | 0.62 | 4.572 | 27.371 |
| 1495. | 3.017 | 34.607 | 0.71 | 2.909 | 27.580 |
| 1993. | 2.316 | 34.642 | 0.83 | 2.175 | 27.671 |
| 2497. | 1.868 | 34.664 | 0.99 | 1.690 | 27.726 |
| 2994. | 1.657 | 34.676 | 1.12 | 1.437 | 27.755 |
| 3244. | 1.613 | 34.679 | 1.16 | 1.370 | 27.762 |
| 3493. | 1.524 | 34.687 | 1.23 | 1.258 | 27.776 |
| 3749. | 1.437 | 34.693 | 1.32 | 1.147 | 27.789 |
| 4070. | 1.458 | 34.694 | 1.36 | 1.133 | 27.791 |

CAST EP2-88-OC -016 LAT 00 00.1N LONG 114 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 10. | 22.008 | 35.112 | 1.76 | 22.006 | 24.303 |
| 20. | 21.819 | 35.116 | 1.80 | 21.815 | 24.359 |
| 40. | 21.304 | 35.100 | 1.60 | 21.296 | 24.490 |
| 99. | 14.427 | 34.905 | 0.89 | 14.412 | 26.027 |
| 126. | 14.091 | 34.918 | 0.77 | 14.073 | 26.109 |
| 149. | 13.627 | 34.919 | 0.57 | 13.606 | 26.207 |
| 199. | 12.864 | 34.895 | 0.72 | 12.837 | 26.345 |
| 240. | 12.305 | 34.874 | 0.27 | 12.273 | 26.439 |
| 299. | 11.539 | 34.822 | 0.13 | 11.501 | 26.545 |

CAST EP2-88-OC -017 LAT 05 04.3S LONG 109 47.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 499. | 8.260 | 34.650 | 0.00 | 8.208 | 26.968 |
| 997. | 4.507 | 34.549 | 0.69 | 4.428 | 27.382 |
| 1494. | 3.054 | 34.600 | 0.77 | 2.946 | 27.571 |
| 1993. | 2.327 | 34.639 | 0.87 | 2.186 | 27.668 |
| 2483. | 1.942 | 34.663 | 1.00 | 1.764 | 27.720 |
| 2744. | 1.779 | 34.673 | 1.11 | 1.580 | 27.742 |
| 2992. | 1.685 | 34.678 | 1.19 | 1.465 | 27.754 |
| 3191. | 1.573 | 34.684 | 1.26 | 1.336 | 27.768 |
| 3364. | 1.547 | 34.687 | 1.30 | 1.293 | 27.774 |
| 3543. | 1.564 | 34.687 | 1.30 | 1.292 | 27.774 |

CAST EP2-88-OC -021 LAT 02 02.8S LONG 109 56.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 21.672 | 35.054 | 1.65 | 21.671 | 24.352 |
| 10. | 21.619 | 35.057 | 1.70 | 21.617 | 24.369 |
| 40. | 21.060 | 35.161 | 1.58 | 21.052 | 24.604 |
| 60. | 17.050 | 35.093 | 0.74 | 17.040 | 25.577 |
| 81. | 14.014 | 34.982 | 0.52 | 14.002 | 26.173 |
| 101. | 13.425 | 34.949 | 0.35 | 13.411 | 26.271 |
| 125. | 13.047 | 34.926 | 0.35 | 13.030 | 26.330 |
| 150. | 12.874 | 34.915 | 0.23 | 12.854 | 26.357 |
| 198. | 12.409 | 34.885 | 0.14 | 12.383 | 26.427 |
| 250. | 11.952 | 34.860 | 0.03 | 11.920 | 26.496 |
| 303. | 10.920 | 34.805 | 0.00 | 10.883 | 26.645 |

CAST EP2-88-OC -022 LAT 02 02.7S LONG 109 57.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 497. | 7.922 | 34.620 | 0.44 | 7.871 | 26.995 |
| 996. | 4.578 | 34.555 | 0.65 | 4.498 | 27.379 |
| 1495. | 2.977 | 34.609 | 0.72 | 2.870 | 27.585 |
| 1994. | 2.287 | 34.646 | 0.82 | 2.147 | 27.676 |
| 2489. | 1.866 | 34.665 | 1.01 | 1.689 | 27.727 |
| 2994. | 1.652 | 34.677 | 1.15 | 1.432 | 27.756 |
| 3244. | 1.597 | 34.680 | 1.19 | 1.354 | 27.764 |
| 3495. | 1.515 | 34.689 | 1.29 | 1.249 | 27.779 |
| 3743. | 1.461 | 34.692 | 1.34 | 1.171 | 27.786 |
| 3993. | 1.479 | 34.693 | 1.35 | 1.161 | 27.788 |

CAST EP2-88-OC -023 LAT 01 29.9S LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 20. | 19.702 | 35.027 | 1.47 | 19.698 | 24.863 |
| 79. | 15.820 | 35.148 | 0.57 | 15.808 | 25.906 |
| 99. | 14.574 | 35.033 | 0.46 | 14.559 | 26.094 |
| 123. | 13.167 | 34.933 | 0.48 | 13.150 | 26.311 |
| 149. | 12.783 | 34.904 | 0.48 | 12.763 | 26.367 |
| 199. | 12.428 | 34.881 | 0.39 | 12.401 | 26.420 |
| 300. | 11.171 | 34.809 | 0.13 | 11.134 | 26.603 |
| 498. | 7.819 | 34.617 | 0.33 | 7.769 | 27.008 |
| 997. | 4.519 | 34.554 | 0.72 | 4.440 | 27.385 |

CAST EP2-88-OC -024 LAT 01 00.1S LONG 109 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 19. | 19.635 | 34.859 | 1.47 | 19.632 | 24.752 |
| 40. | 18.237 | 34.928 | 1.35 | 18.230 | 25.161 |
| 60. | 17.627 | 35.065 | 1.17 | 17.617 | 25.417 |
| 79. | 15.006 | 35.055 | 0.83 | 14.994 | 26.016 |
| 149. | 12.610 | 34.892 | 0.48 | 12.590 | 26.391 |
| 199. | 12.478 | 34.884 | 0.41 | 12.451 | 26.412 |
| 299. | 11.751 | 34.844 | 0.08 | 11.712 | 26.523 |
| 497. | 8.078 | 34.630 | 0.26 | 8.027 | 26.980 |
| 994. | 4.561 | 34.557 | 0.62 | 4.481 | 27.383 |

CAST EP2-88-OC -025 LAT 00 30.2S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 10. | 20.903 | 34.849 | 1.71 | 20.901 | 24.407 |
| 40. | 17.003 | 34.872 | 1.08 | 16.996 | 25.418 |
| 59. | 15.348 | 34.975 | 1.04 | 15.339 | 25.878 |
| 79. | 14.296 | 34.934 | 0.87 | 14.284 | 26.077 |
| 100. | 14.359 | 34.957 | 0.85 | 14.344 | 26.082 |
| 124. | 13.892 | 34.968 | 0.70 | 13.874 | 26.189 |
| 149. | 12.872 | 34.908 | 0.57 | 12.852 | 26.352 |
| 299. | 11.287 | 34.808 | 0.13 | 11.249 | 26.581 |
| 499. | 7.897 | 34.620 | 0.25 | 7.846 | 26.999 |
| 1006. | 4.512 | 34.558 | 0.63 | 4.432 | 27.389 |

CAST EP2-88-OC -026 LAT 00 04.8S LONG 109 50.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1995. | 2.322 | 34.641 | 0.83 | 2.181 | 27.670 |
| 497. | 8.137 | 34.633 | 0.23 | 8.086 | 26.973 |
| 998. | 4.608 | 34.556 | 0.61 | 4.528 | 27.377 |
| 1496. | 3.096 | 34.602 | 0.70 | 2.987 | 27.569 |
| 2495. | 1.826 | 34.666 | 0.99 | 1.649 | 27.731 |
| 2746. | 1.763 | 34.671 | 1.06 | 1.565 | 27.741 |
| 2994. | 1.678 | 34.675 | 1.12 | 1.458 | 27.752 |
| 3244. | 1.625 | 34.678 | 1.17 | 1.382 | 27.760 |
| 3494. | 1.517 | 34.687 | 1.23 | 1.251 | 27.777 |

CAST EP2-88-OC -027 LAT 00 02.3S LONG 110 07.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 5. | 22.895 | 34.845 | 1.83 | 22.894 | 23.848 |
| 9. | 22.458 | 34.829 | 1.91 | 22.456 | 23.961 |
| 20. | 21.053 | 34.834 | 1.64 | 21.049 | 24.356 |
| 99. | 13.975 | 34.924 | 0.82 | 13.961 | 26.137 |
| 148. | 12.953 | 34.911 | 0.62 | 12.933 | 26.338 |
| 199. | 12.502 | 34.884 | 0.35 | 12.475 | 26.408 |
| 248. | 12.139 | 34.861 | 0.17 | 12.106 | 26.461 |
| 300. | 11.435 | 34.813 | 0.12 | 11.397 | 26.558 |

CAST EP2-88-OC -028 LAT 00 30.1N LONG 109 59.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 23.882 | 34.455 | 1.73 | 23.882 | 23.265 |
| 59. | 14.105 | 34.876 | 0.73 | 14.096 | 26.072 |
| 79. | 14.110 | 34.896 | 0.75 | 14.099 | 26.087 |
| 124. | 13.416 | 34.902 | 0.84 | 13.399 | 26.237 |
| 150. | 13.389 | 34.908 | 0.80 | 13.368 | 26.248 |
| 199. | 12.846 | 34.906 | 0.68 | 12.819 | 26.357 |
| 298. | 11.571 | 34.821 | 0.10 | 11.533 | 26.539 |
| 498. | 7.804 | 34.616 | 0.28 | 7.754 | 27.009 |
| 1000. | 4.629 | 34.555 | 0.61 | 4.548 | 27.374 |

CAST EP2-88-OC -029 LAT 01 00.1N LONG 110 00.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 4. | 24.741 | 34.390 | 1.85 | 24.740 | 22.961 |
| 20. | 24.731 | 34.395 | 1.73 | 24.727 | 22.968 |
| 125. | 13.127 | 34.905 | 0.55 | 13.110 | 26.298 |
| 149. | 13.009 | 34.899 | 0.62 | 12.988 | 26.318 |
| 199. | 12.785 | 34.893 | 0.64 | 12.758 | 26.359 |
| 298. | 11.713 | 34.810 | 0.23 | 11.675 | 26.504 |
| 499. | 7.717 | 34.611 | 0.29 | 7.667 | 27.018 |
| 1003. | 4.485 | 34.556 | 0.62 | 4.405 | 27.390 |

CAST EP2-88-OC -030 LAT 01 30.4N LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 3. | 25.368 | 34.217 | 1.67 | 25.367 | 22.640 |
| 39. | 18.925 | 34.837 | 0.96 | 18.918 | 24.919 |
| 80. | 14.015 | 34.952 | 0.50 | 14.003 | 26.150 |
| 98. | 13.688 | 34.940 | 0.49 | 13.674 | 26.209 |
| 124. | 13.346 | 34.922 | 0.41 | 13.329 | 26.267 |
| 143. | 13.087 | 34.905 | 0.35 | 13.067 | 26.306 |
| 198. | 12.561 | 34.870 | 0.21 | 12.534 | 26.385 |
| 299. | 11.044 | 34.757 | 0.21 | 11.007 | 26.585 |
| 498. | 7.604 | 34.608 | 0.26 | 7.554 | 27.032 |
| 1005. | 4.451 | 34.558 | 0.62 | 4.371 | 27.395 |

CAST EP2-88-OC -031 LAT 02 03.0N LONG 110 07.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 25.468 | 34.269 | 1.69 | 25.468 | 22.648 |
| 10. | 25.448 | 34.274 | 1.95 | 25.446 | 22.659 |
| 60. | 15.155 | 34.949 | 0.57 | 15.146 | 25.901 |
| 78. | 14.090 | 34.953 | 0.52 | 14.079 | 26.135 |
| 99. | 13.689 | 34.944 | 0.52 | 13.675 | 26.212 |
| 123. | 13.427 | 34.932 | 0.50 | 13.410 | 26.258 |
| 148. | 13.169 | 34.918 | 0.48 | 13.148 | 26.300 |
| 198. | 12.713 | 34.880 | 0.23 | 12.686 | 26.363 |
| 248. | 11.994 | 34.826 | 0.23 | 11.962 | 26.462 |
| 302. | 10.974 | 34.754 | 0.24 | 10.937 | 26.596 |

CAST EP2-88-OC -032 LAT 02 02.3N LONG 110 09.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 497. | 7.187 | 34.588 | 0.37 | 7.139 | 27.075 |
| 995. | 4.610 | 34.556 | 6.17 | 4.530 | 27.376 |
| 1495. | 3.088 | 34.604 | 0.70 | 2.979 | 27.571 |
| 1744. | 2.680 | 34.625 | 0.72 | 2.555 | 27.625 |
| 1998. | 2.352 | 34.638 | 0.80 | 2.210 | 27.665 |
| 2493. | 1.843 | 34.666 | 0.97 | 1.666 | 27.730 |
| 2994. | 1.691 | 34.675 | 1.08 | 1.471 | 27.752 |
| 3243. | 1.589 | 34.681 | 1.16 | 1.346 | 27.765 |

CAST EP2-88-OC -036 LAT 04 58.2N LONG 109 59.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 1. | 27.077 | 33.963 | 1.71 | 27.077 | 21.915 |
| 10. | 27.061 | 33.962 | 1.86 | 27.059 | 21.920 |
| 20. | 27.069 | 33.962 | 1.93 | 27.064 | 21.918 |
| 99. | 13.910 | 34.833 | 0.26 | 13.896 | 26.081 |
| 126. | 12.963 | 34.841 | 0.19 | 12.946 | 26.281 |
| 149. | 12.335 | 34.818 | 0.14 | 12.315 | 26.388 |
| 200. | 11.280 | 34.760 | 0.22 | 11.255 | 26.543 |
| 250. | 10.615 | 34.730 | 0.11 | 10.585 | 26.640 |
| 300. | 10.106 | 34.707 | 0.09 | 10.071 | 26.711 |

CAST EP2-88-OC -033 LAT 02 59.6N LONG 109 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 26.170 | 34.103 | 1.67 | 26.170 | 22.306 |
| 79. | 13.950 | 34.801 | 0.63 | 13.939 | 26.047 |
| 97. | 13.344 | 34.870 | 0.51 | 13.330 | 26.226 |
| 124. | 12.904 | 34.892 | 0.31 | 12.887 | 26.332 |
| 149. | 12.520 | 34.872 | 0.22 | 12.500 | 26.393 |
| 198. | 11.764 | 34.816 | 0.27 | 11.739 | 26.496 |
| 298. | 10.398 | 34.724 | 0.44 | 10.363 | 26.674 |
| 497. | 7.194 | 34.595 | 0.06 | 7.146 | 27.080 |
| 1000. | 4.587 | 34.561 | 0.48 | 4.507 | 27.383 |

CAST EP2-88-OC -034 LAT 04 00.3N LONG 110 00.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 2. | 26.806 | 33.964 | 1.80 | 26.806 | 22.001 |
| 20. | 26.802 | 33.969 | 1.85 | 26.797 | 22.008 |
| 59. | 21.406 | 34.449 | 0.88 | 21.395 | 23.968 |
| 99. | 13.198 | 34.781 | 0.33 | 13.184 | 26.187 |
| 124. | 12.700 | 34.788 | 0.33 | 12.683 | 26.292 |
| 198. | 10.738 | 34.695 | 0.50 | 10.714 | 26.590 |
| 298. | 9.917 | 34.696 | 0.23 | 9.883 | 26.735 |
| 496. | 7.610 | 34.607 | 0.00 | 7.561 | 27.030 |
| 998. | 4.531 | 34.561 | 0.43 | 4.451 | 27.389 |

CAST EP2-88-OC -035 LAT 05 00.1N LONG 110 00.0W

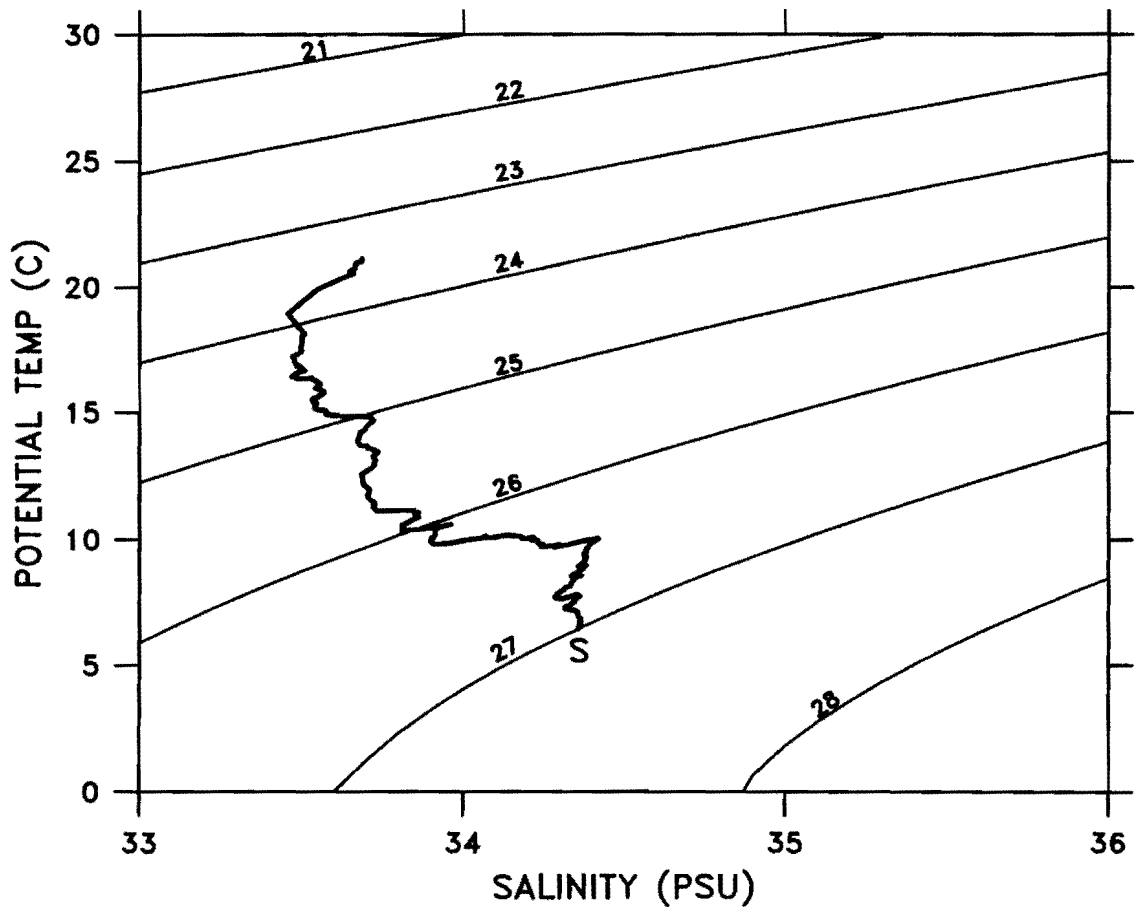
| PRES (DB) | TEMP (C) | SAL (PSU) | OXY (ML/L) | POT TEMP | SIG-TH |
|-----------|----------|-----------|------------|----------|--------|
| 501. | 7.541 | 34.603 | 0.00 | 7.491 | 27.037 |
| 986. | 4.540 | 34.561 | 0.36 | 4.461 | 27.388 |
| 1492. | 3.135 | 34.605 | 0.57 | 3.026 | 27.567 |
| 2004. | 2.232 | 34.645 | 0.78 | 2.092 | 27.680 |
| 2516. | 1.848 | 34.666 | 0.91 | 1.669 | 27.730 |
| 2735. | 1.816 | 34.669 | 0.93 | 1.617 | 27.736 |
| 2994. | 1.753 | 34.672 | 0.98 | 1.531 | 27.745 |
| 3244. | 1.602 | 34.682 | 1.11 | 1.359 | 27.765 |
| 3493. | 1.518 | 34.686 | 1.19 | 1.252 | 27.776 |
| 3947. | 1.476 | 34.690 | 1.28 | 1.163 | 27.785 |

EP4-88-OC

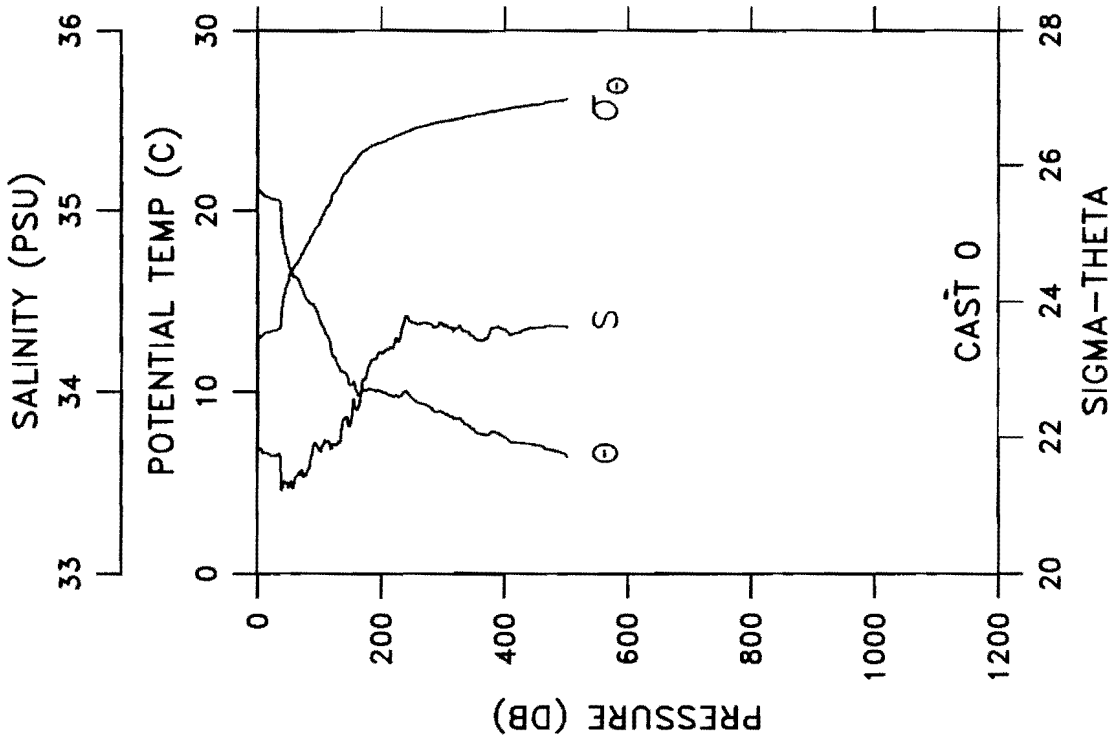
October 13–November 10, 1988

CTD and Hydrographic Data Summary

CAST EP4-88-OC -000 DATE 19 OCT 88 TIME 2018 GMT
LAT 25 24.5N LONG 115 11.6W

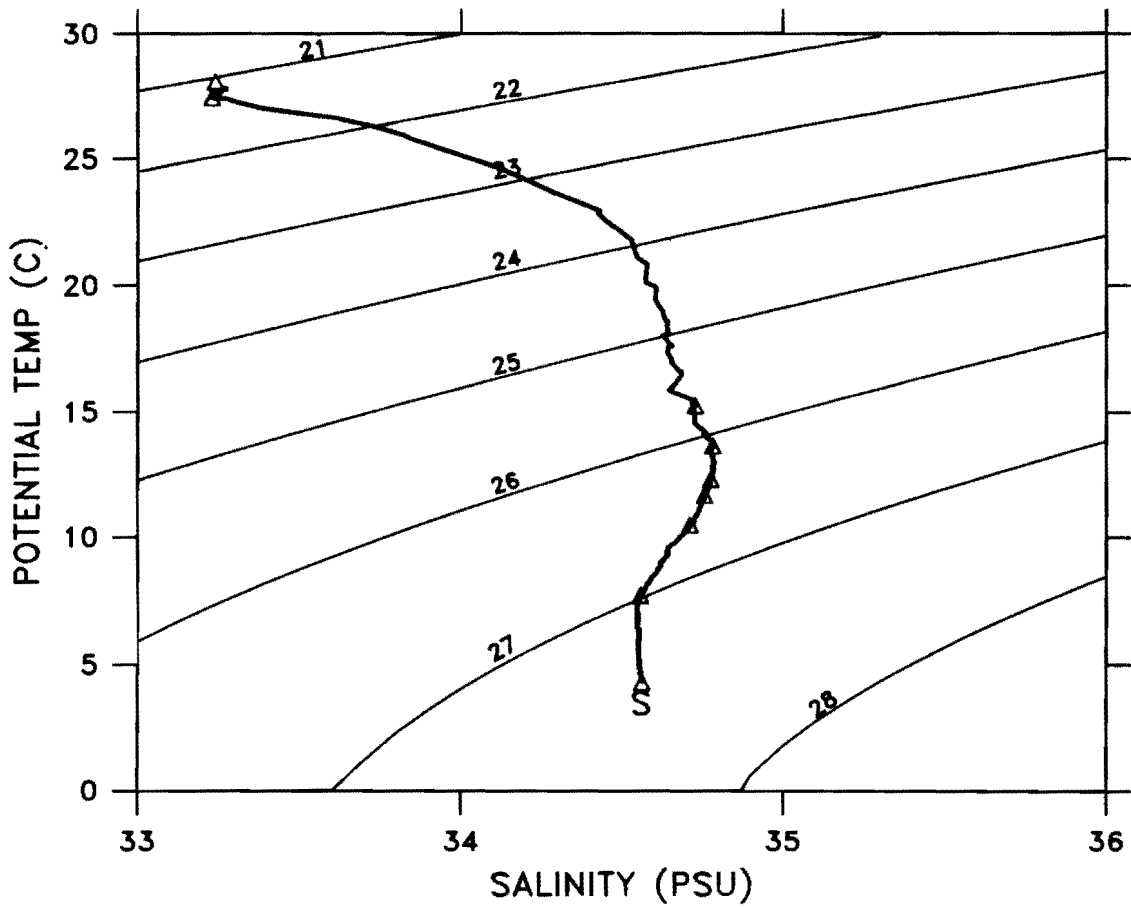


CAST EP4-88-OC -000 DATE 19 OCT 88 TIME 2018 GMT
 LAT 25 24.5N LONG 115 11.6W WEATHER 1 SEA STATE 2
 BAROMETER 15 WIND DIR 250 T SPD 04 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 21.0 WET 19.0 DEPTH 3764 M

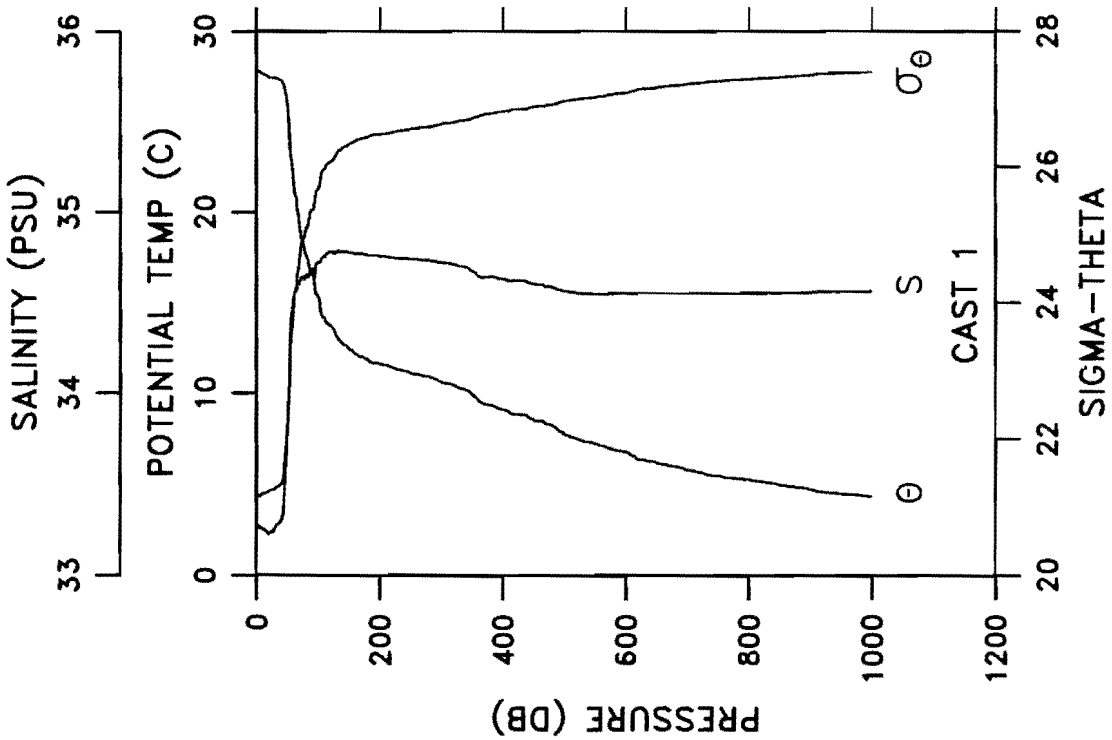


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.135 | 33.687 | 23.460 | 0.000 |
| 10 | 20.821 | 33.666 | 23.528 | 0.044 |
| 20 | 20.684 | 33.654 | 23.556 | 0.087 |
| 30 | 20.592 | 33.648 | 23.576 | 0.131 |
| 40 | 18.660 | 33.474 | 23.942 | 0.173 |
| 50 | 17.229 | 33.471 | 24.288 | 0.211 |
| 60 | 16.327 | 33.509 | 24.527 | 0.246 |
| 70 | 15.837 | 33.567 | 24.683 | 0.279 |
| 80 | 15.077 | 33.553 | 24.841 | 0.311 |
| 90 | 14.850 | 33.705 | 25.007 | 0.342 |
| 100 | 14.083 | 33.679 | 25.150 | 0.371 |
| 110 | 13.241 | 33.721 | 25.355 | 0.398 |
| 120 | 12.171 | 33.692 | 25.541 | 0.424 |
| 130 | 11.471 | 33.724 | 25.697 | 0.448 |
| 140 | 11.078 | 33.851 | 25.867 | 0.470 |
| 150 | 10.361 | 33.822 | 25.971 | 0.491 |
| 160 | 10.036 | 33.901 | 26.088 | 0.511 |
| 170 | 10.136 | 34.071 | 26.204 | 0.530 |
| 180 | 10.168 | 34.142 | 26.254 | 0.549 |
| 190 | 10.069 | 34.186 | 26.305 | 0.566 |
| 200 | 10.036 | 34.221 | 26.338 | 0.584 |
| 250 | 9.661 | 34.385 | 26.529 | 0.665 |
| 300 | 8.886 | 34.377 | 26.649 | 0.740 |
| 350 | 7.953 | 34.308 | 26.737 | 0.810 |
| 400 | 7.507 | 34.345 | 26.832 | 0.876 |
| 450 | 7.080 | 34.354 | 26.899 | 0.938 |
| 500 | 6.554 | 34.350 | 26.975 | 0.997 |
| 502 | 6.432 | 34.359 | 26.990 | 1.000 |

CAST EP4-88-OC -001 DATE 22 OCT 88 TIME 1159 GMT
LAT 10 30.8N LONG 109 18.9W

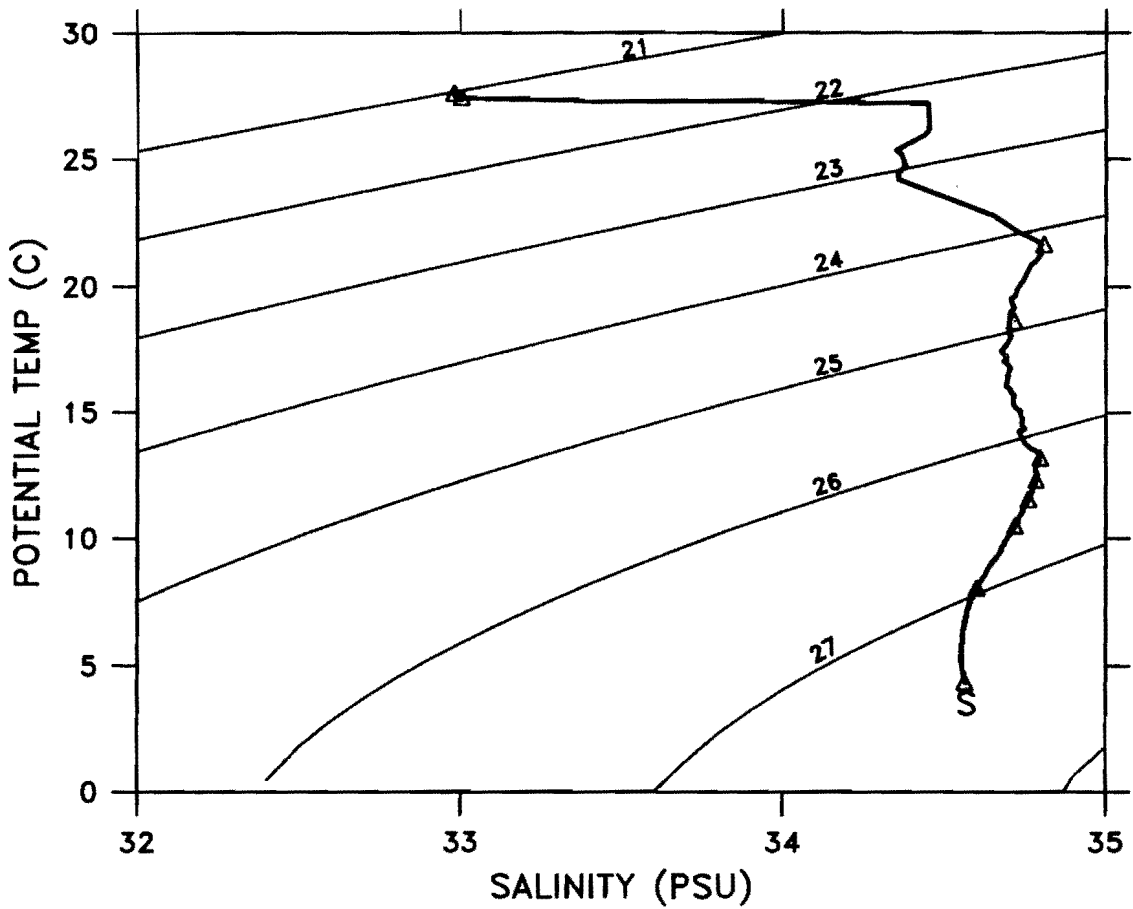


CAST EP4-88-OC -001 DATE 22 OCT 88 TIME 1159 GMT
 LAT 10 30.8N LONG 109 18.9W WEATHER 0 SEA STATE 1
 BAROMETER 09 WIND DIR 060 T SPD 05 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 26.6 WET 23.7 DEPTH 2626 M

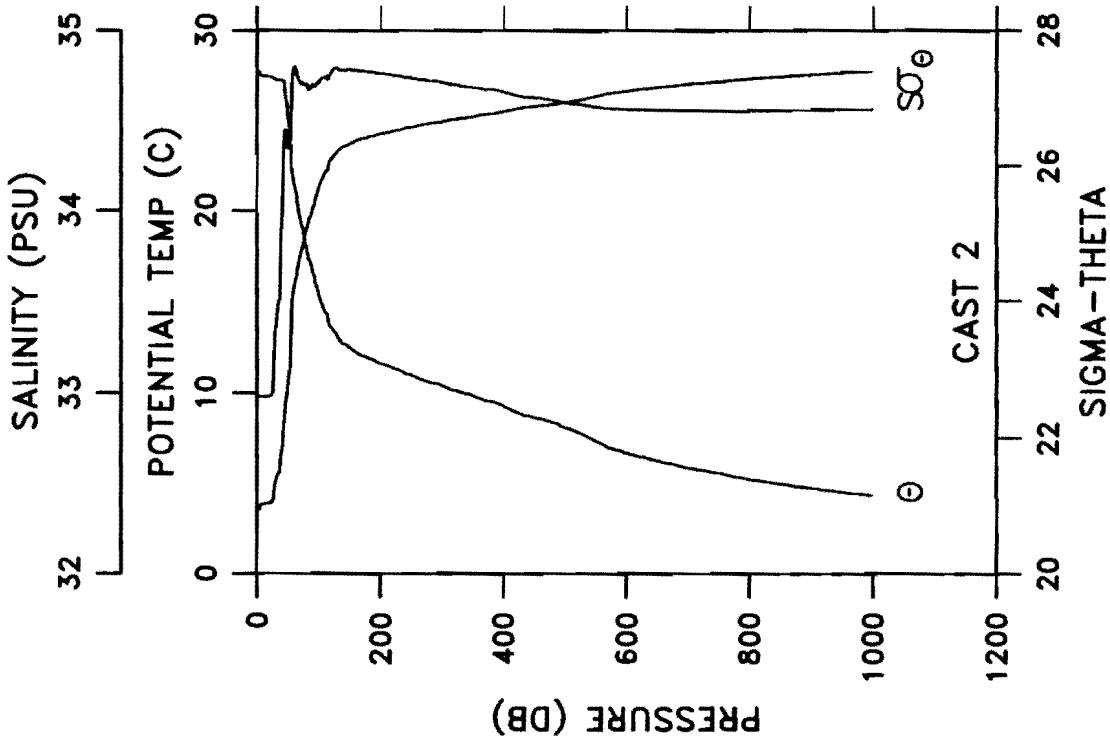


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.773 | 33.270 | 21.170 | 0.000 |
| 10 | 27.678 | 33.255 | 21.189 | 0.066 |
| 20 | 27.458 | 33.227 | 21.239 | 0.132 |
| 30 | 27.426 | 33.256 | 21.271 | 0.197 |
| 40 | 27.287 | 33.300 | 21.349 | 0.262 |
| 50 | 25.927 | 33.822 | 22.170 | 0.324 |
| 60 | 21.795 | 34.529 | 23.918 | 0.371 |
| 70 | 19.178 | 34.615 | 24.683 | 0.408 |
| 80 | 17.621 | 34.655 | 25.101 | 0.438 |
| 90 | 16.590 | 34.685 | 25.370 | 0.466 |
| 100 | 15.369 | 34.716 | 25.672 | 0.491 |
| 110 | 14.161 | 34.761 | 25.969 | 0.512 |
| 120 | 13.733 | 34.784 | 26.076 | 0.532 |
| 130 | 13.160 | 34.783 | 26.193 | 0.551 |
| 140 | 12.715 | 34.781 | 26.281 | 0.569 |
| 150 | 12.455 | 34.777 | 26.328 | 0.587 |
| 160 | 12.176 | 34.771 | 26.378 | 0.604 |
| 170 | 11.991 | 34.770 | 26.412 | 0.621 |
| 180 | 11.867 | 34.764 | 26.432 | 0.637 |
| 190 | 11.658 | 34.761 | 26.469 | 0.653 |
| 200 | 11.620 | 34.759 | 26.474 | 0.669 |
| 250 | 11.069 | 34.741 | 26.558 | 0.747 |
| 300 | 10.624 | 34.722 | 26.627 | 0.823 |
| 350 | 9.950 | 34.678 | 26.710 | 0.895 |
| 400 | 9.115 | 34.629 | 26.810 | 0.962 |
| 450 | 8.547 | 34.604 | 26.880 | 1.027 |
| 500 | 7.780 | 34.563 | 26.964 | 1.088 |
| 550 | 7.279 | 34.549 | 27.025 | 1.145 |
| 600 | 6.817 | 34.552 | 27.091 | 1.199 |
| 650 | 6.225 | 34.553 | 27.171 | 1.250 |
| 700 | 5.804 | 34.553 | 27.224 | 1.298 |
| 750 | 5.463 | 34.553 | 27.264 | 1.344 |
| 800 | 5.273 | 34.553 | 27.289 | 1.388 |
| 900 | 4.721 | 34.558 | 27.357 | 1.473 |
| 1000 | 4.333 | 34.564 | 27.405 | 1.551 |
| 1000 | 4.333 | 34.564 | 27.405 | 1.551 |

CAST EP4-88-OC -002 DATE 23 OCT 88 TIME 0116 GMT
LAT 09 00.0N LONG 109 26.6W

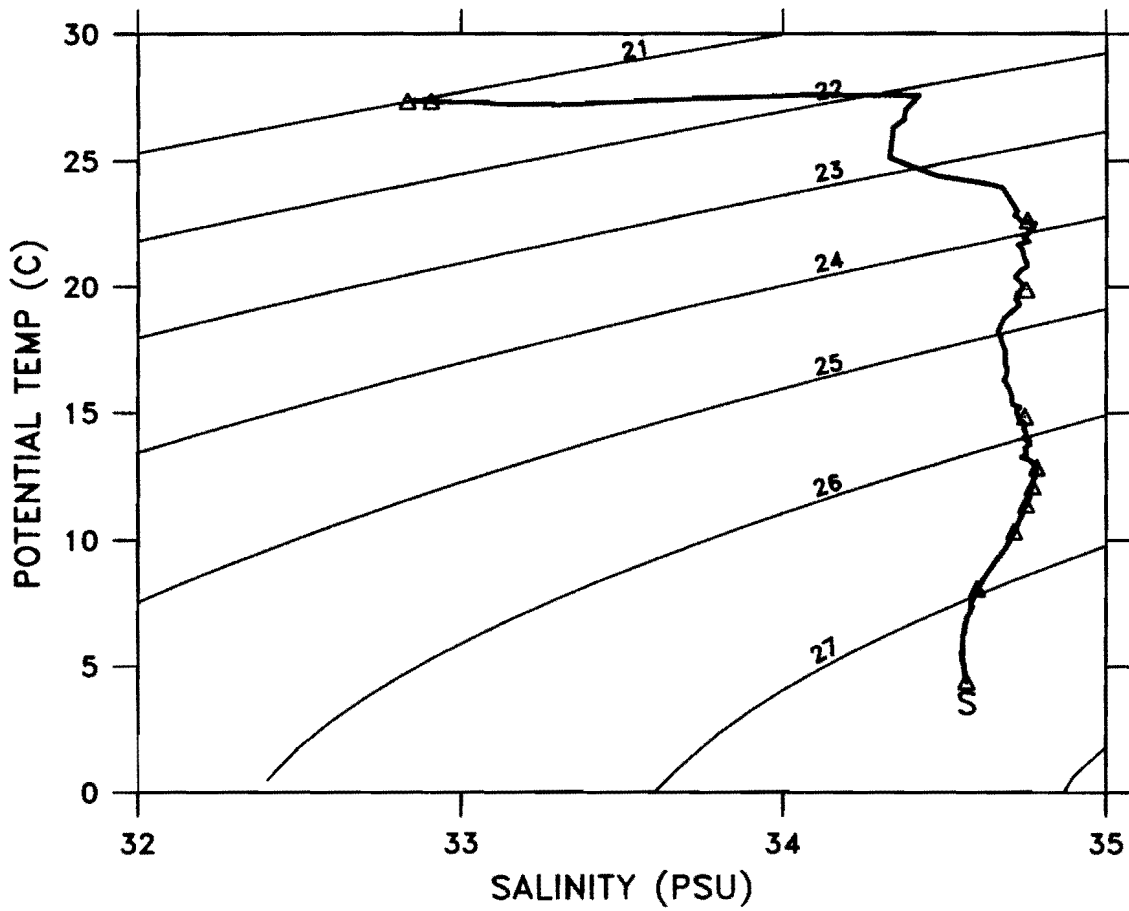


CST EP4-88-OC -002 DATE 23 OCT 88 TIME 0116 GMT
 LAT 09 00.0N LONG 109 26.8W WEATHER 1 SEA STATE 1
 BAROMETER 10 WIND DHR 265 T SPD 04 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 26.8 WET 24.3 DEPTH 3473 M

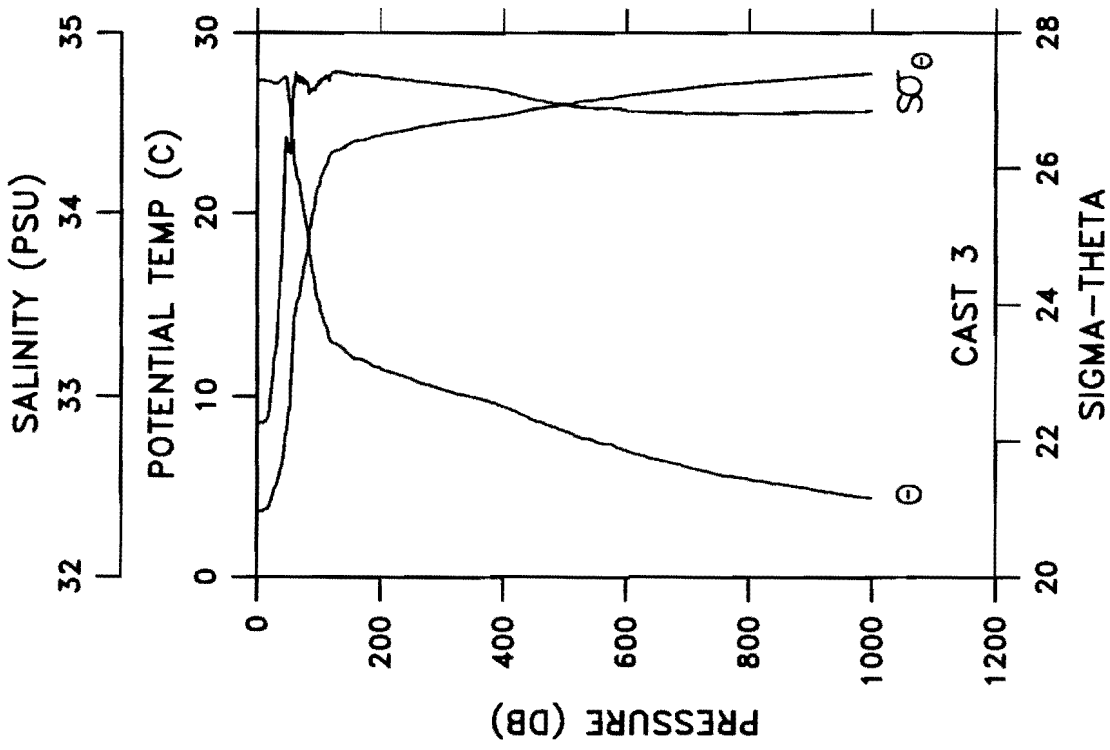


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.793 | 32.983 | 20.948 | 0.000 |
| 10 | 27.507 | 32.981 | 21.038 | 0.068 |
| 20 | 27.469 | 32.983 | 21.052 | 0.135 |
| 30 | 27.330 | 33.340 | 21.365 | 0.201 |
| 40 | 27.276 | 33.938 | 21.832 | 0.264 |
| 50 | 25.187 | 34.367 | 22.808 | 0.319 |
| 60 | 21.438 | 34.798 | 24.221 | 0.363 |
| 70 | 19.522 | 34.706 | 24.663 | 0.398 |
| 80 | 18.017 | 34.707 | 25.044 | 0.429 |
| 90 | 16.619 | 34.700 | 25.375 | 0.457 |
| 100 | 15.320 | 34.714 | 25.661 | 0.481 |
| 110 | 14.432 | 34.744 | 25.898 | 0.504 |
| 120 | 13.550 | 34.771 | 26.105 | 0.524 |
| 130 | 13.086 | 34.794 | 26.217 | 0.543 |
| 140 | 12.679 | 34.783 | 26.289 | 0.561 |
| 150 | 12.488 | 34.785 | 26.328 | 0.578 |
| 160 | 12.226 | 34.782 | 26.377 | 0.595 |
| 170 | 12.044 | 34.778 | 26.409 | 0.612 |
| 180 | 11.904 | 34.773 | 26.432 | 0.628 |
| 190 | 11.798 | 34.769 | 26.449 | 0.645 |
| 200 | 11.611 | 34.764 | 26.480 | 0.661 |
| 250 | 11.010 | 34.742 | 26.573 | 0.738 |
| 300 | 10.383 | 34.714 | 26.663 | 0.812 |
| 350 | 9.871 | 34.687 | 26.730 | 0.883 |
| 400 | 9.299 | 34.664 | 26.807 | 0.950 |
| 450 | 8.665 | 34.630 | 26.882 | 1.014 |
| 500 | 8.089 | 34.602 | 26.948 | 1.075 |
| 550 | 7.370 | 34.577 | 27.034 | 1.133 |
| 600 | 6.728 | 34.566 | 27.114 | 1.186 |
| 650 | 6.289 | 34.558 | 27.167 | 1.237 |
| 700 | 5.897 | 34.558 | 27.216 | 1.285 |
| 750 | 5.626 | 34.554 | 27.247 | 1.332 |
| 800 | 5.258 | 34.555 | 27.292 | 1.376 |
| 900 | 4.775 | 34.559 | 27.352 | 1.461 |
| 1000 | 4.372 | 34.566 | 27.401 | 1.541 |
| 1001 | 4.372 | 34.566 | 27.401 | 1.542 |

CAST EP4-88-OC -003 DATE 23 OCT 88 TIME 0639 GMT
LAT 07 59.4N LONG 109 35.3W

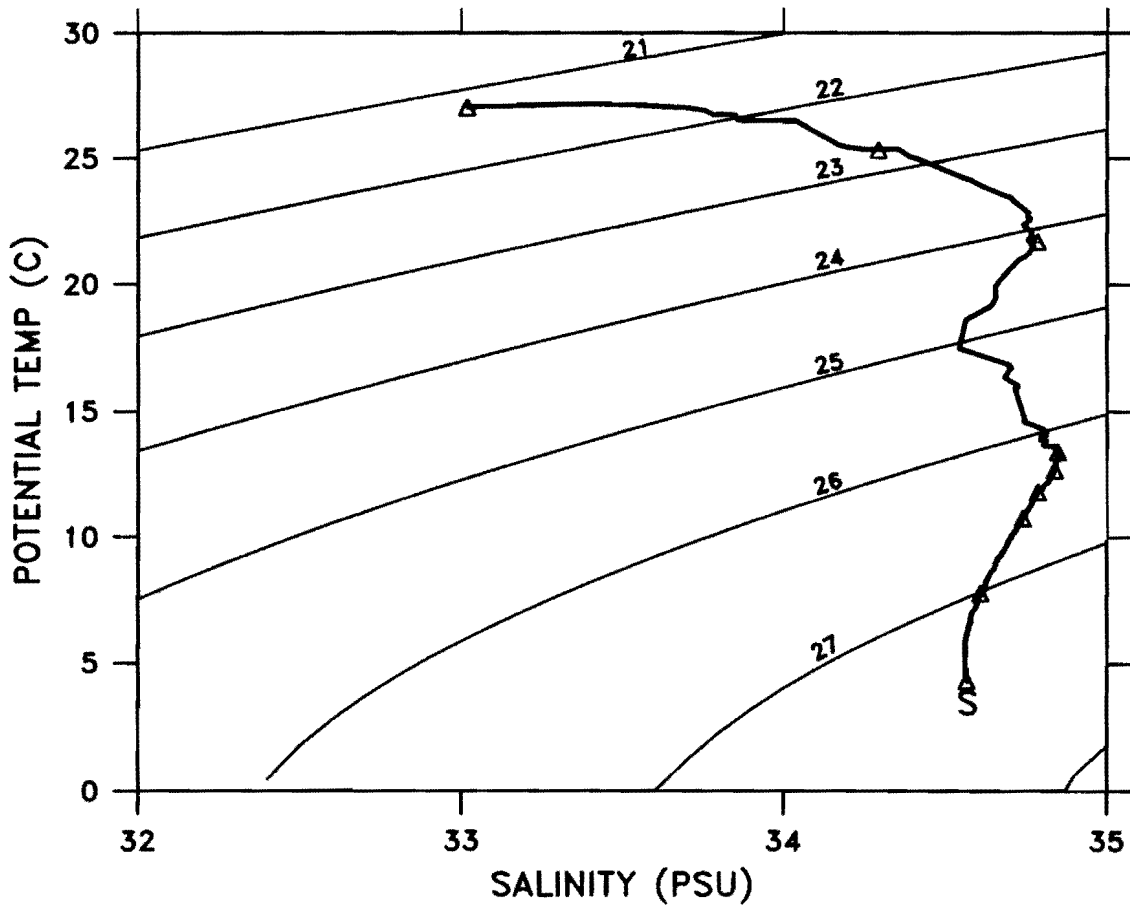


CAST EP4-88-OC -003 DATE 23 OCT 88 TIME 0639 GMT
 LAT 07 59.4N LONG 109 35.3W WEATHER 2 SEA STATE 2
 BAROMETER 11 WIND DIR 260 T SPD 07 KT VISIBILITY 8
 CLOUD 7 AMOUNT 7 DRY 26.2 WET 24.7 DEPTH 4069 M

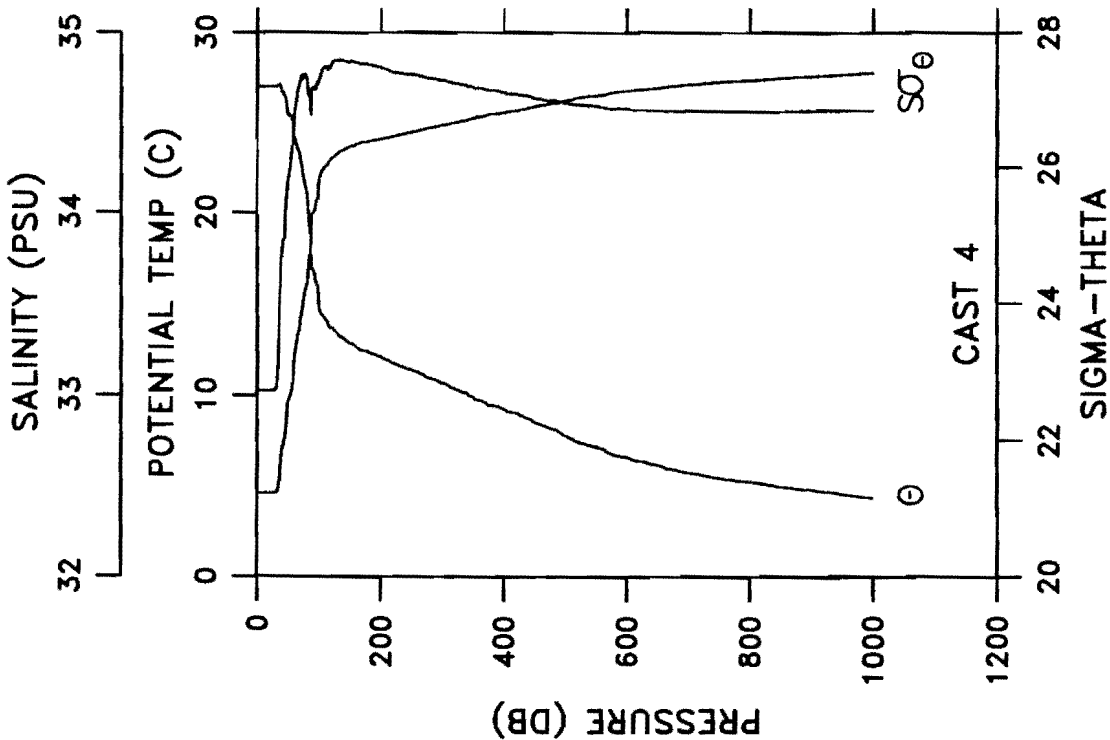


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.391 | 32.854 | 20.980 | 0.000 |
| 10 | 27.382 | 32.854 | 20.983 | 0.068 |
| 20 | 27.316 | 32.918 | 21.052 | 0.136 |
| 30 | 27.212 | 33.256 | 21.339 | 0.201 |
| 40 | 27.445 | 33.770 | 21.652 | 0.265 |
| 50 | 26.608 | 34.374 | 22.373 | 0.323 |
| 60 | 22.839 | 34.716 | 23.766 | 0.372 |
| 70 | 21.171 | 34.745 | 24.255 | 0.411 |
| 80 | 19.297 | 34.730 | 24.740 | 0.445 |
| 90 | 16.778 | 34.693 | 25.332 | 0.475 |
| 100 | 15.200 | 34.731 | 25.722 | 0.499 |
| 110 | 13.914 | 34.758 | 26.018 | 0.521 |
| 120 | 12.983 | 34.778 | 26.225 | 0.540 |
| 130 | 12.803 | 34.785 | 26.266 | 0.558 |
| 140 | 12.618 | 34.780 | 26.299 | 0.576 |
| 150 | 12.272 | 34.772 | 26.360 | 0.593 |
| 160 | 12.047 | 34.770 | 26.402 | 0.609 |
| 170 | 12.015 | 34.768 | 26.406 | 0.626 |
| 180 | 11.851 | 34.766 | 26.436 | 0.642 |
| 190 | 11.633 | 34.762 | 26.474 | 0.659 |
| 200 | 11.540 | 34.755 | 26.486 | 0.674 |
| 250 | 10.975 | 34.742 | 26.579 | 0.752 |
| 300 | 10.396 | 34.718 | 26.664 | 0.825 |
| 350 | 9.971 | 34.702 | 26.725 | 0.896 |
| 400 | 9.452 | 34.676 | 26.791 | 0.964 |
| 450 | 8.696 | 34.633 | 26.879 | 1.029 |
| 500 | 8.072 | 34.602 | 26.951 | 1.090 |
| 550 | 7.514 | 34.582 | 27.017 | 1.148 |
| 600 | 7.010 | 34.574 | 27.082 | 1.203 |
| 650 | 6.532 | 34.564 | 27.139 | 1.255 |
| 700 | 6.101 | 34.556 | 27.189 | 1.305 |
| 750 | 5.678 | 34.557 | 27.244 | 1.352 |
| 800 | 5.434 | 34.555 | 27.271 | 1.397 |
| 900 | 4.885 | 34.560 | 27.340 | 1.484 |
| 1000 | 4.401 | 34.569 | 27.401 | 1.564 |
| 1001 | 4.398 | 34.569 | 27.401 | 1.565 |

CAST EP4-88-OC -004 DATE 23 OCT 88 TIME 1154 GMT
LAT 07 00.4N LONG 109 43.9W

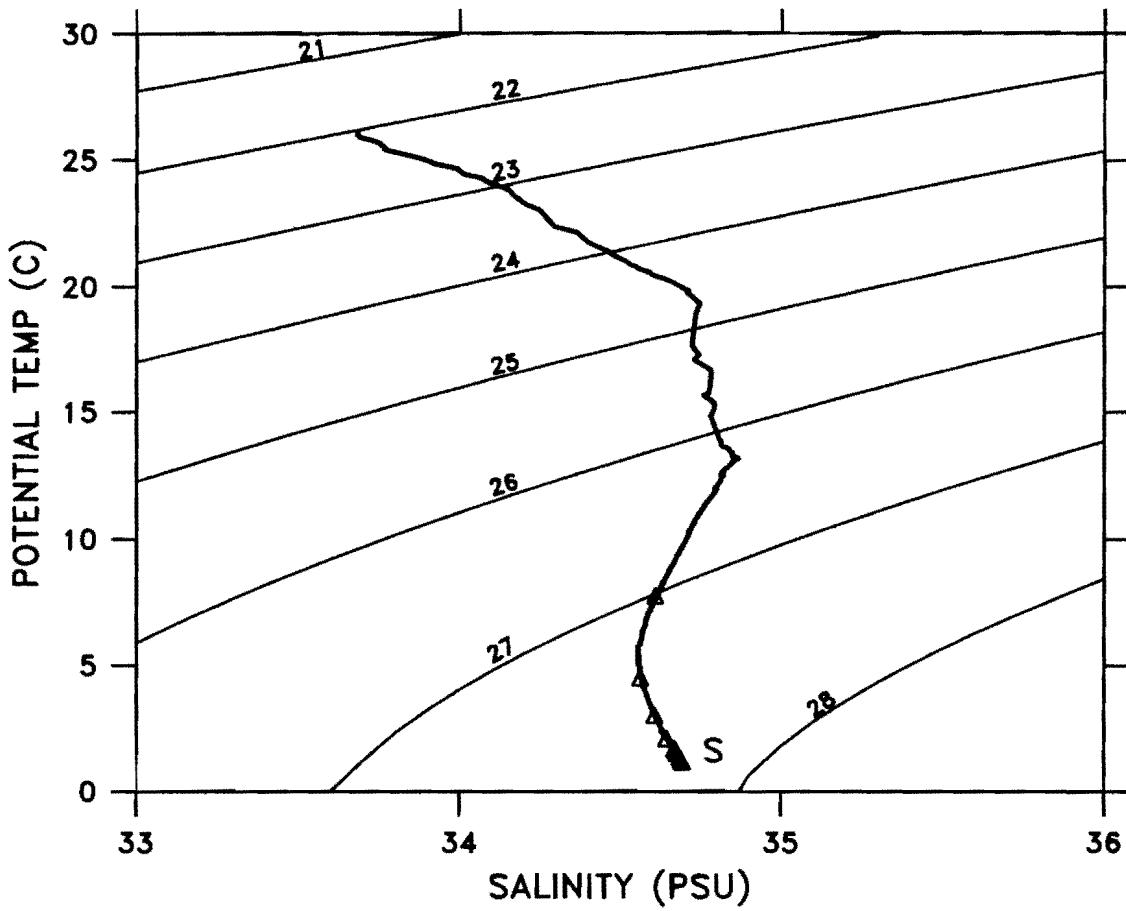


CAST EP4-88-OC -004 DATE 23 OCT 88 TIME 1154 GMT
 LAT 07 00.4N LONG 109 43.9W WEATHER 5 SEA STATE 3
 BAROMETER 09 WIND DIR 250 T SPD 15 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 25.3 WET 24.3 DEPTH 3882 M

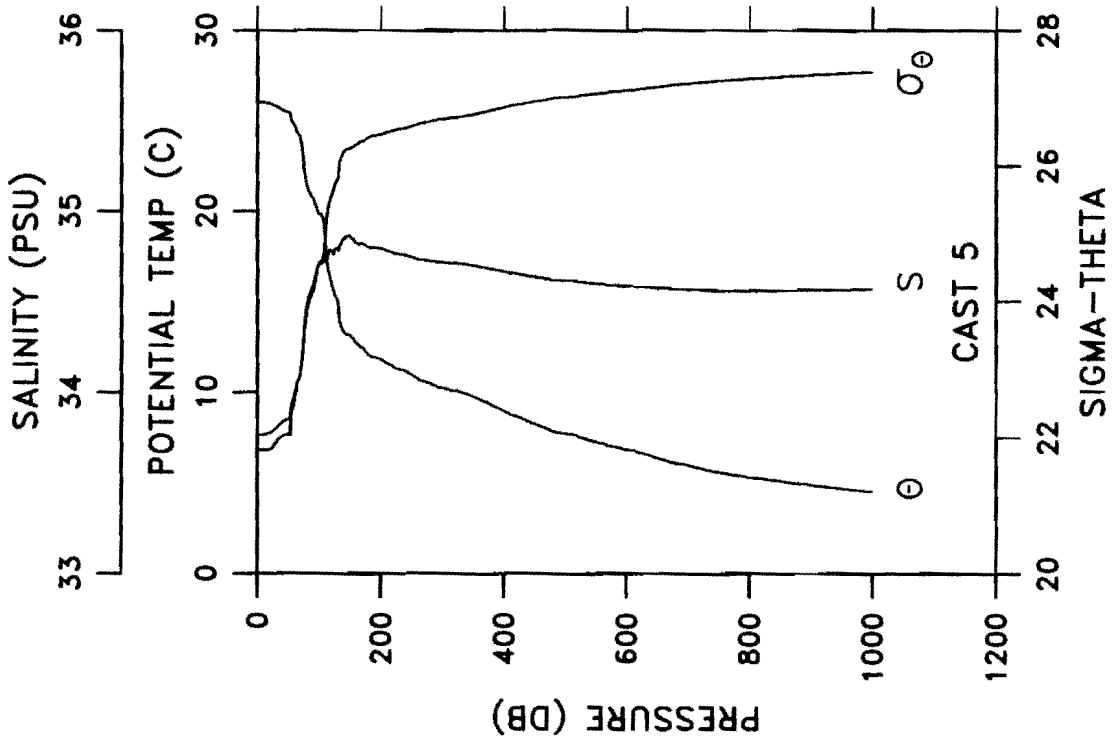


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.002 | 33.021 | 21.229 | 0.000 |
| 10 | 27.004 | 33.025 | 21.232 | 0.066 |
| 20 | 27.015 | 33.026 | 21.229 | 0.131 |
| 30 | 27.017 | 33.029 | 21.231 | 0.197 |
| 40 | 26.721 | 33.782 | 21.891 | 0.260 |
| 50 | 25.475 | 34.184 | 22.582 | 0.317 |
| 60 | 24.227 | 34.553 | 23.237 | 0.368 |
| 70 | 22.854 | 34.758 | 23.793 | 0.412 |
| 80 | 21.097 | 34.746 | 24.276 | 0.451 |
| 90 | 16.846 | 34.699 | 25.321 | 0.482 |
| 100 | 14.725 | 34.745 | 25.836 | 0.508 |
| 110 | 14.141 | 34.814 | 26.015 | 0.528 |
| 120 | 13.638 | 34.830 | 26.132 | 0.548 |
| 130 | 13.323 | 34.847 | 26.210 | 0.567 |
| 140 | 13.064 | 34.846 | 26.261 | 0.585 |
| 150 | 12.806 | 34.840 | 26.308 | 0.603 |
| 160 | 12.621 | 34.837 | 26.343 | 0.620 |
| 170 | 12.414 | 34.829 | 26.377 | 0.637 |
| 180 | 12.327 | 34.824 | 26.390 | 0.654 |
| 190 | 12.202 | 34.819 | 26.410 | 0.670 |
| 200 | 12.081 | 34.808 | 26.425 | 0.687 |
| 250 | 11.362 | 34.768 | 26.529 | 0.767 |
| 300 | 10.662 | 34.737 | 26.632 | 0.843 |
| 350 | 9.931 | 34.700 | 26.730 | 0.914 |
| 400 | 9.261 | 34.671 | 26.818 | 0.981 |
| 450 | 8.567 | 34.639 | 26.904 | 1.045 |
| 500 | 7.798 | 34.613 | 27.000 | 1.104 |
| 550 | 7.182 | 34.593 | 27.073 | 1.159 |
| 600 | 6.612 | 34.578 | 27.140 | 1.211 |
| 650 | 6.183 | 34.567 | 27.187 | 1.260 |
| 700 | 5.760 | 34.564 | 27.238 | 1.307 |
| 750 | 5.467 | 34.561 | 27.272 | 1.353 |
| 800 | 5.249 | 34.561 | 27.298 | 1.396 |
| 900 | 4.801 | 34.563 | 27.352 | 1.481 |
| 1000 | 4.337 | 34.568 | 27.407 | 1.560 |
| 1000 | 4.337 | 34.568 | 27.407 | 1.560 |

CAST EP4-88-OC -005 DATE 24 OCT 88 TIME 0014 GMT
LAT 05 01.6N LONG 110 00.5W

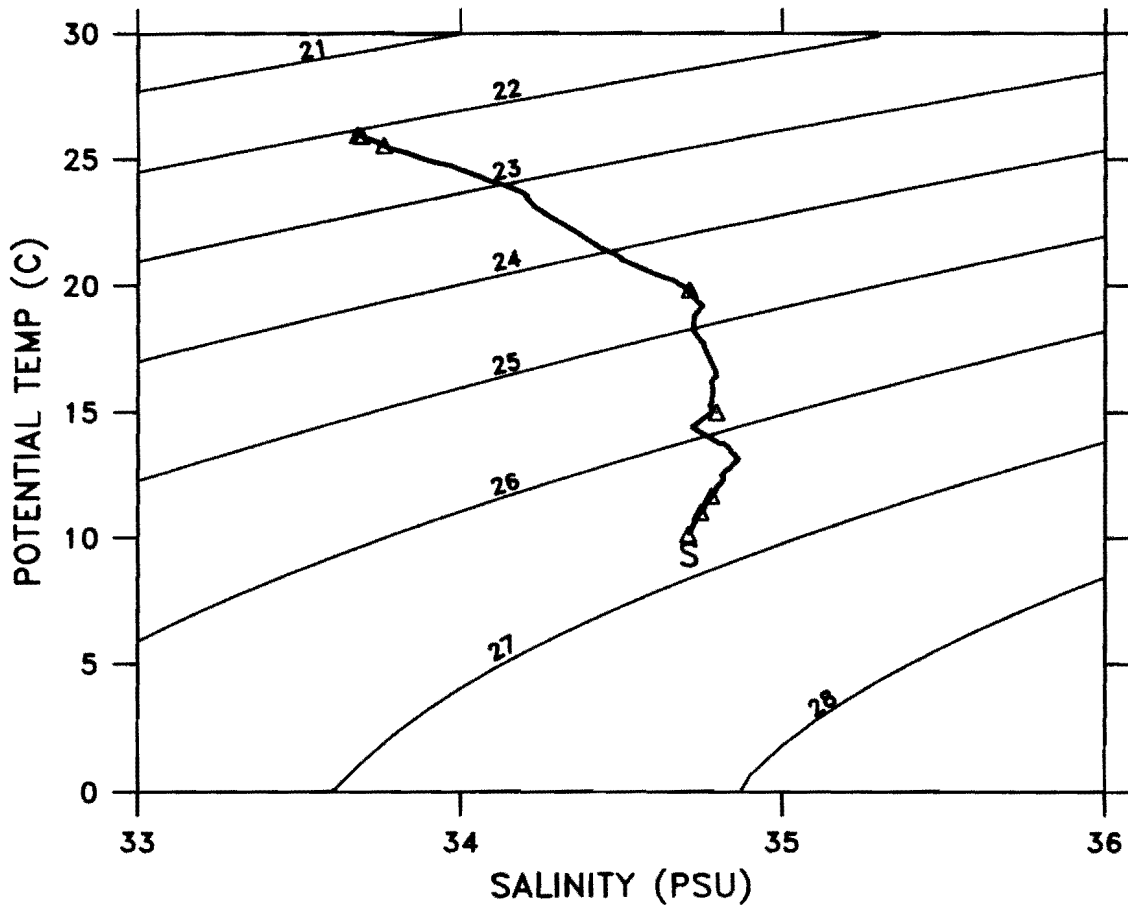


CAST EP4-88-OC -005 DATE 24 OCT 88 TIME 0014 GMT
 LAT 05 01.6N LONG 110 00.5W WEATHER 2 SEA STATE 3
 BAROMETER 10 WIND DIR 205 T SPD 18 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 24.5 WET 22.4 DEPTH 3895 M

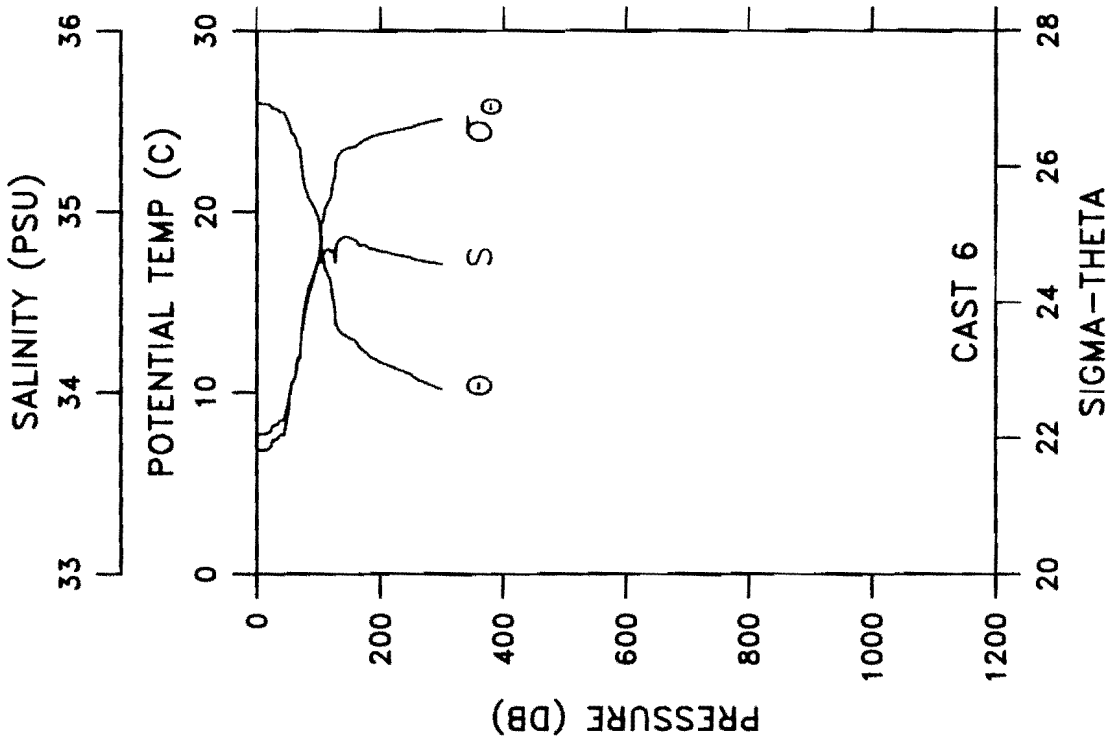


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.003 | 33.682 | 22.041 | 0.000 |
| 10 | 26.000 | 33.683 | 22.042 | 0.058 |
| 20 | 25.929 | 33.684 | 22.065 | 0.115 |
| 30 | 25.771 | 33.726 | 22.145 | 0.173 |
| 40 | 25.570 | 33.759 | 22.232 | 0.229 |
| 50 | 25.458 | 33.768 | 22.273 | 0.285 |
| 60 | 24.738 | 33.963 | 22.638 | 0.339 |
| 70 | 23.925 | 34.132 | 23.008 | 0.390 |
| 80 | 21.431 | 34.457 | 23.964 | 0.434 |
| 90 | 20.736 | 34.550 | 24.224 | 0.472 |
| 100 | 19.846 | 34.709 | 24.581 | 0.507 |
| 110 | 18.261 | 34.728 | 25.000 | 0.540 |
| 120 | 16.061 | 34.780 | 25.565 | 0.567 |
| 130 | 15.063 | 34.789 | 25.796 | 0.590 |
| 140 | 13.342 | 34.850 | 26.208 | 0.610 |
| 150 | 13.146 | 34.864 | 26.259 | 0.628 |
| 160 | 12.720 | 34.824 | 26.313 | 0.645 |
| 170 | 12.471 | 34.821 | 26.360 | 0.663 |
| 180 | 12.054 | 34.799 | 26.423 | 0.679 |
| 190 | 11.931 | 34.797 | 26.445 | 0.696 |
| 200 | 11.812 | 34.792 | 26.463 | 0.712 |
| 250 | 10.950 | 34.744 | 26.585 | 0.790 |
| 300 | 10.236 | 34.714 | 26.689 | 0.862 |
| 350 | 9.764 | 34.696 | 26.755 | 0.932 |
| 400 | 8.998 | 34.664 | 26.856 | 0.998 |
| 450 | 8.299 | 34.635 | 26.943 | 1.059 |
| 500 | 7.720 | 34.612 | 27.011 | 1.117 |
| 550 | 7.283 | 34.596 | 27.062 | 1.172 |
| 600 | 6.834 | 34.582 | 27.113 | 1.225 |
| 650 | 6.412 | 34.571 | 27.160 | 1.276 |
| 700 | 5.996 | 34.565 | 27.210 | 1.325 |
| 750 | 5.604 | 34.556 | 27.251 | 1.371 |
| 800 | 5.311 | 34.556 | 27.287 | 1.416 |
| 900 | 4.916 | 34.561 | 27.337 | 1.502 |
| 1000 | 4.530 | 34.566 | 27.365 | 1.583 |
| 1500 | 2.985 | 34.609 | 27.574 | 1.932 |
| 2000 | 2.095 | 34.645 | 27.680 | 2.213 |
| 2500 | 1.691 | 34.666 | 27.728 | 2.456 |
| 3000 | 1.508 | 34.675 | 27.749 | 2.691 |
| 3500 | 1.245 | 34.687 | 27.777 | 2.916 |
| 3799 | 1.178 | 34.690 | 27.784 | 3.047 |

CAST EP4-88-OC -006 DATE 24 OCT 88 TIME 0300 GMT
LAT 05 02.3N LONG 110 00.1W

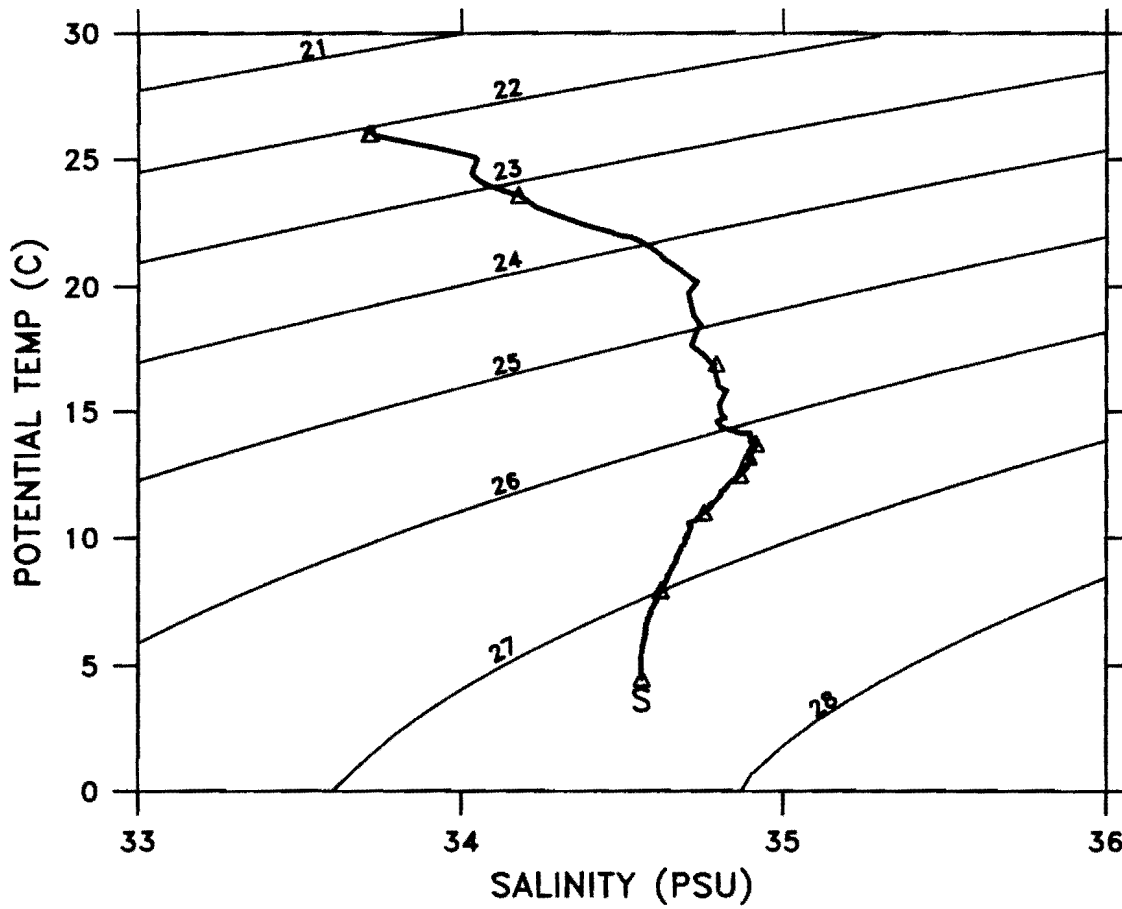


CAST EP4-88-OC -006 DATE 24 OCT 88 TIME 0300 GMT
 LAT 05 02.3N LONG 110 00.1W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 208 T SPD 16 KT VISIBILITY 6
 CLOUD 4 AMOUNT 6 DRY 24.1 WET 23.0 DEPTH 3895 M

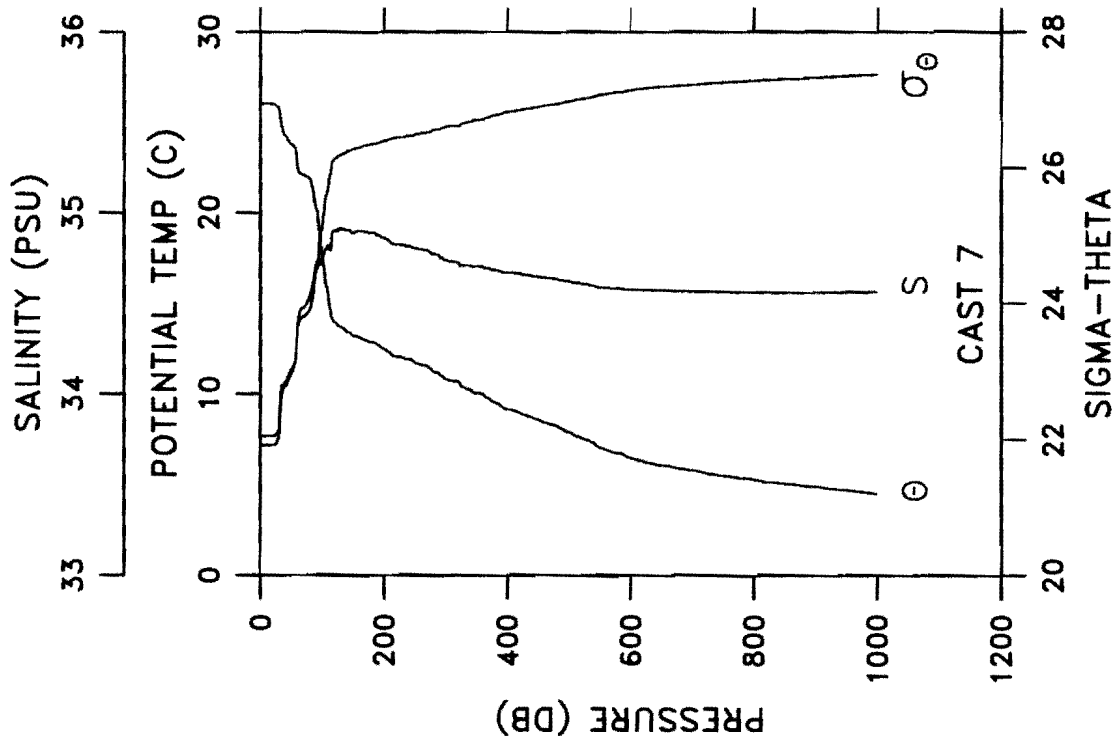


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 25.941 | 33.683 | 22.060 | 0.000 |
| 10 | 25.949 | 33.683 | 22.058 | 0.058 |
| 20 | 25.892 | 33.695 | 22.085 | 0.115 |
| 30 | 25.674 | 33.741 | 22.186 | 0.172 |
| 40 | 25.499 | 33.766 | 22.259 | 0.228 |
| 50 | 25.054 | 33.872 | 22.475 | 0.283 |
| 60 | 24.218 | 34.074 | 22.878 | 0.335 |
| 70 | 23.502 | 34.201 | 23.184 | 0.383 |
| 80 | 21.146 | 34.489 | 24.067 | 0.425 |
| 90 | 20.436 | 34.608 | 24.348 | 0.462 |
| 100 | 19.570 | 34.717 | 24.660 | 0.497 |
| 110 | 16.865 | 34.782 | 25.380 | 0.526 |
| 120 | 15.979 | 34.783 | 25.586 | 0.552 |
| 130 | 13.674 | 34.826 | 26.122 | 0.573 |
| 140 | 13.209 | 34.857 | 26.241 | 0.592 |
| 150 | 13.025 | 34.856 | 26.277 | 0.610 |
| 160 | 12.850 | 34.840 | 26.300 | 0.628 |
| 170 | 12.415 | 34.816 | 26.367 | 0.645 |
| 180 | 12.115 | 34.803 | 26.415 | 0.662 |
| 190 | 11.888 | 34.793 | 26.450 | 0.678 |
| 200 | 11.675 | 34.781 | 26.481 | 0.694 |
| 250 | 11.024 | 34.746 | 26.574 | 0.772 |
| 300 | 10.186 | 34.709 | 26.693 | 0.844 |
| 300 | 10.186 | 34.709 | 26.693 | 0.844 |

CAST EP4-88-OC -007 DATE 24 OCT 88 TIME 0907 GMT
LAT 03 59.6N LONG 110 00.2W

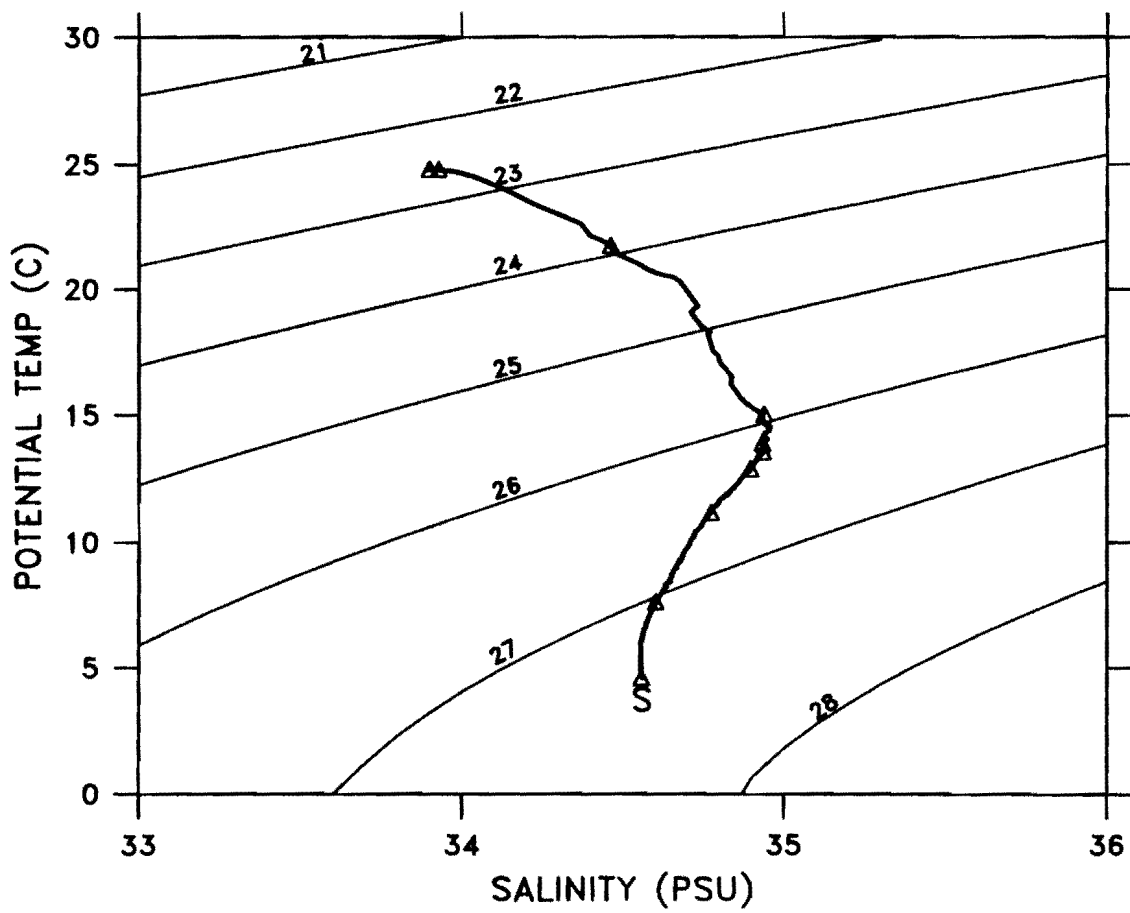


CAST EPA-88-OC -007 DATE 24 OCT 88 TIME 0907 GMT
 LAT 03 59.6N LONG 110 00.2W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DIR 185 T SPD 20 KT VISIBILITY 7
 CLOUD 5 AMOUNT 8 DRY 23.2 WET 21.8 DEPTH 3821 M

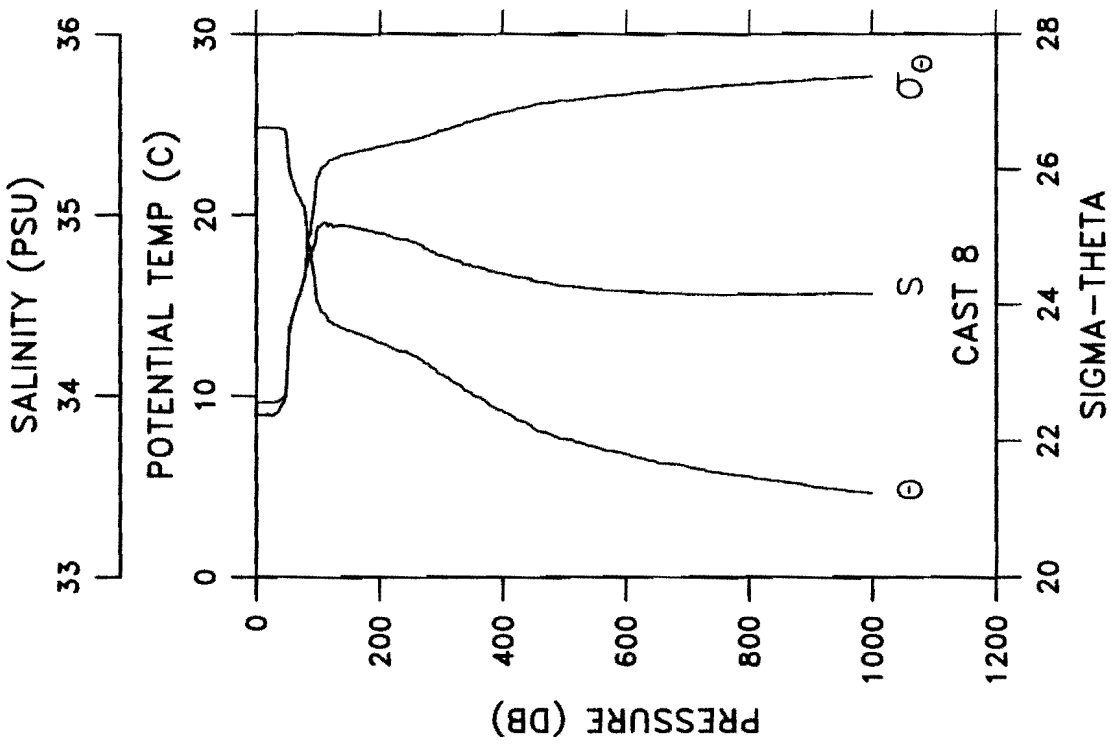


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.067 | 33.721 | 22.050 | 0.000 |
| 10 | 26.068 | 33.719 | 22.048 | 0.058 |
| 20 | 26.056 | 33.719 | 22.052 | 0.115 |
| 30 | 25.850 | 33.760 | 22.146 | 0.173 |
| 40 | 24.282 | 34.042 | 22.834 | 0.225 |
| 50 | 23.802 | 34.119 | 23.035 | 0.274 |
| 60 | 22.551 | 34.355 | 23.574 | 0.322 |
| 70 | 22.085 | 34.474 | 23.796 | 0.363 |
| 80 | 21.856 | 34.542 | 23.912 | 0.404 |
| 90 | 20.255 | 34.720 | 24.482 | 0.442 |
| 100 | 17.645 | 34.714 | 25.141 | 0.474 |
| 110 | 15.271 | 34.802 | 25.760 | 0.499 |
| 120 | 13.923 | 34.902 | 26.129 | 0.519 |
| 130 | 13.672 | 34.911 | 26.187 | 0.538 |
| 140 | 13.386 | 34.904 | 26.241 | 0.556 |
| 150 | 13.175 | 34.888 | 26.272 | 0.574 |
| 160 | 13.097 | 34.901 | 26.297 | 0.592 |
| 170 | 12.928 | 34.893 | 26.325 | 0.609 |
| 180 | 12.809 | 34.891 | 26.347 | 0.627 |
| 190 | 12.669 | 34.881 | 26.367 | 0.644 |
| 200 | 12.457 | 34.862 | 26.394 | 0.661 |
| 250 | 11.706 | 34.805 | 26.494 | 0.742 |
| 300 | 10.818 | 34.740 | 26.606 | 0.820 |
| 350 | 10.064 | 34.705 | 26.711 | 0.893 |
| 400 | 9.191 | 34.670 | 26.829 | 0.960 |
| 450 | 8.622 | 34.647 | 26.902 | 1.024 |
| 500 | 7.922 | 34.622 | 26.989 | 1.083 |
| 550 | 7.065 | 34.587 | 27.085 | 1.139 |
| 600 | 6.503 | 34.575 | 27.151 | 1.190 |
| 650 | 6.087 | 34.570 | 27.202 | 1.239 |
| 700 | 5.829 | 34.565 | 27.231 | 1.286 |
| 750 | 5.519 | 34.563 | 27.267 | 1.331 |
| 800 | 5.310 | 34.560 | 27.290 | 1.376 |
| 900 | 4.925 | 34.559 | 27.335 | 1.461 |
| 1000 | 4.500 | 34.562 | 27.384 | 1.543 |
| 1001 | 4.491 | 34.562 | 27.385 | 1.544 |

CAST EP4-88-OC -008 DATE 24 OCT 88 TIME 1437 GMT
LAT 03 00.0N LONG 110 00.3W

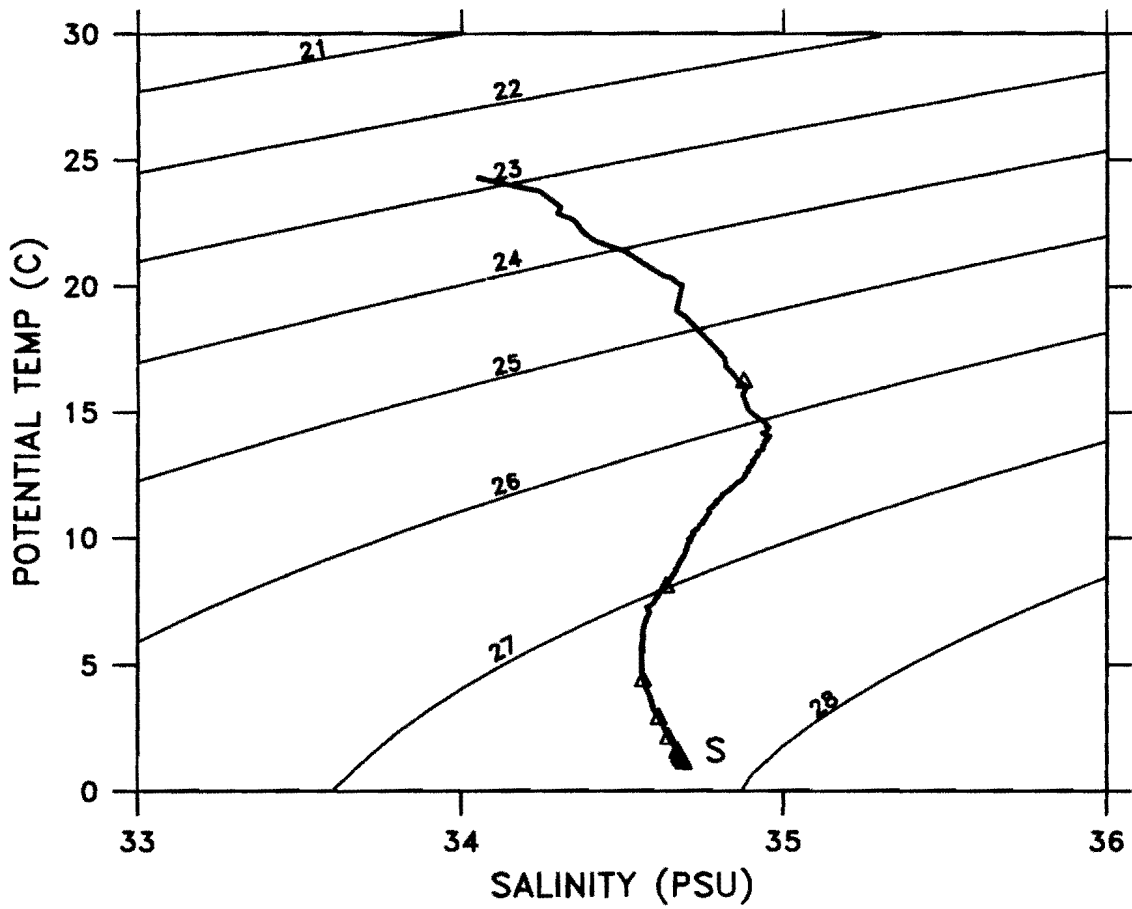


CAST EP4-88-OC -008 DATE 24 OCT 88 TIME 1437 GMT
 LAT 03 00.0N LONG 110 00.3W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 170 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 22.2 WET 21.2 DEPTH 3864 M

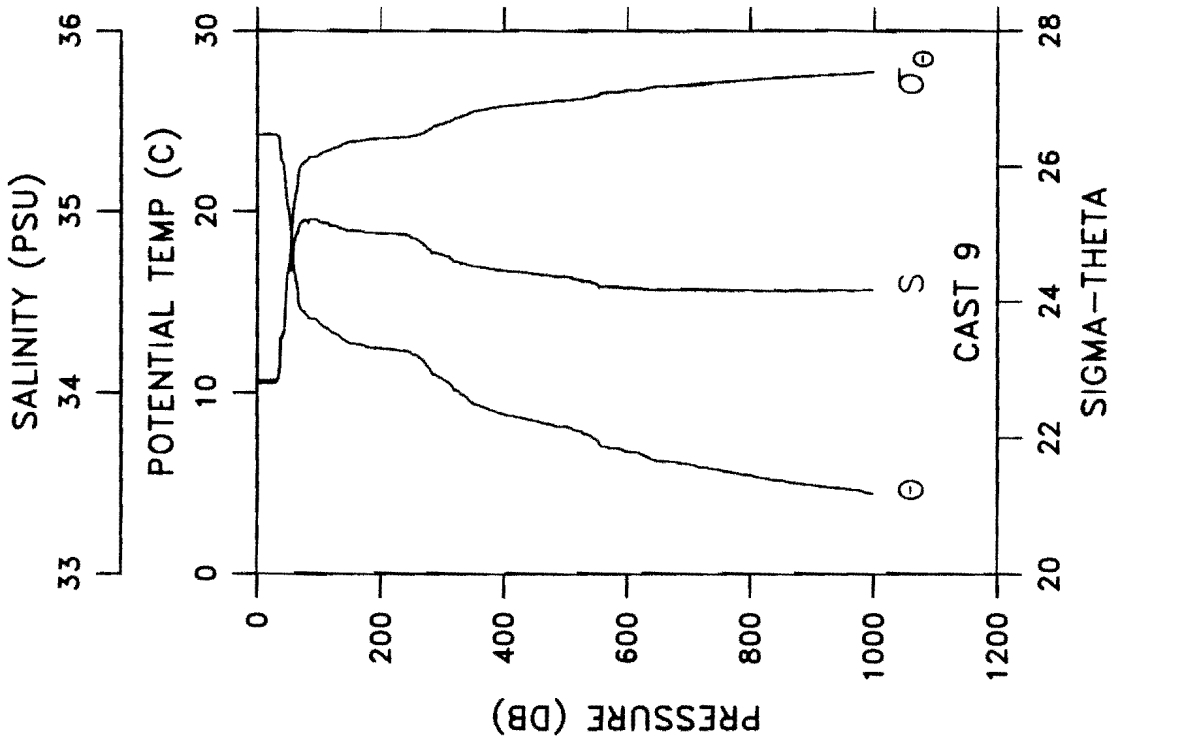


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.798 | 33.894 | 22.568 | 0.000 |
| 10 | 24.798 | 33.893 | 22.568 | 0.053 |
| 20 | 24.798 | 33.897 | 22.571 | 0.105 |
| 30 | 24.793 | 33.903 | 22.577 | 0.158 |
| 40 | 24.749 | 33.945 | 22.621 | 0.211 |
| 50 | 23.991 | 34.129 | 22.986 | 0.262 |
| 60 | 21.854 | 34.448 | 23.841 | 0.305 |
| 70 | 20.995 | 34.549 | 24.153 | 0.344 |
| 80 | 19.805 | 34.705 | 24.589 | 0.381 |
| 90 | 17.366 | 34.796 | 25.271 | 0.411 |
| 100 | 15.083 | 34.933 | 25.903 | 0.435 |
| 110 | 14.508 | 34.959 | 26.048 | 0.455 |
| 120 | 14.053 | 34.949 | 26.137 | 0.474 |
| 130 | 13.880 | 34.938 | 26.165 | 0.493 |
| 140 | 13.679 | 34.942 | 26.210 | 0.512 |
| 150 | 13.559 | 34.935 | 26.229 | 0.530 |
| 160 | 13.427 | 34.927 | 26.251 | 0.548 |
| 170 | 13.315 | 34.921 | 26.269 | 0.566 |
| 180 | 13.201 | 34.914 | 26.287 | 0.584 |
| 190 | 13.056 | 34.907 | 26.310 | 0.602 |
| 200 | 12.901 | 34.897 | 26.334 | 0.619 |
| 250 | 12.272 | 34.852 | 26.422 | 0.704 |
| 300 | 11.168 | 34.774 | 26.569 | 0.784 |
| 350 | 10.111 | 34.713 | 26.709 | 0.858 |
| 400 | 9.139 | 34.675 | 26.842 | 0.925 |
| 450 | 8.218 | 34.632 | 26.952 | 0.987 |
| 500 | 7.616 | 34.605 | 27.021 | 1.044 |
| 550 | 7.187 | 34.588 | 27.069 | 1.099 |
| 600 | 6.780 | 34.575 | 27.114 | 1.152 |
| 650 | 6.333 | 34.562 | 27.163 | 1.202 |
| 700 | 6.083 | 34.558 | 27.193 | 1.251 |
| 750 | 5.755 | 34.555 | 27.232 | 1.299 |
| 800 | 5.537 | 34.558 | 27.261 | 1.345 |
| 900 | 5.003 | 34.557 | 27.323 | 1.433 |
| 1000 | 4.607 | 34.561 | 27.372 | 1.516 |
| 1004 | 4.599 | 34.561 | 27.373 | 1.519 |

CAST EP4-88-OC -009 DATE 25 OCT 88 TIME 1045 GMT
LAT 02 00.5N LONG 110 08.9W

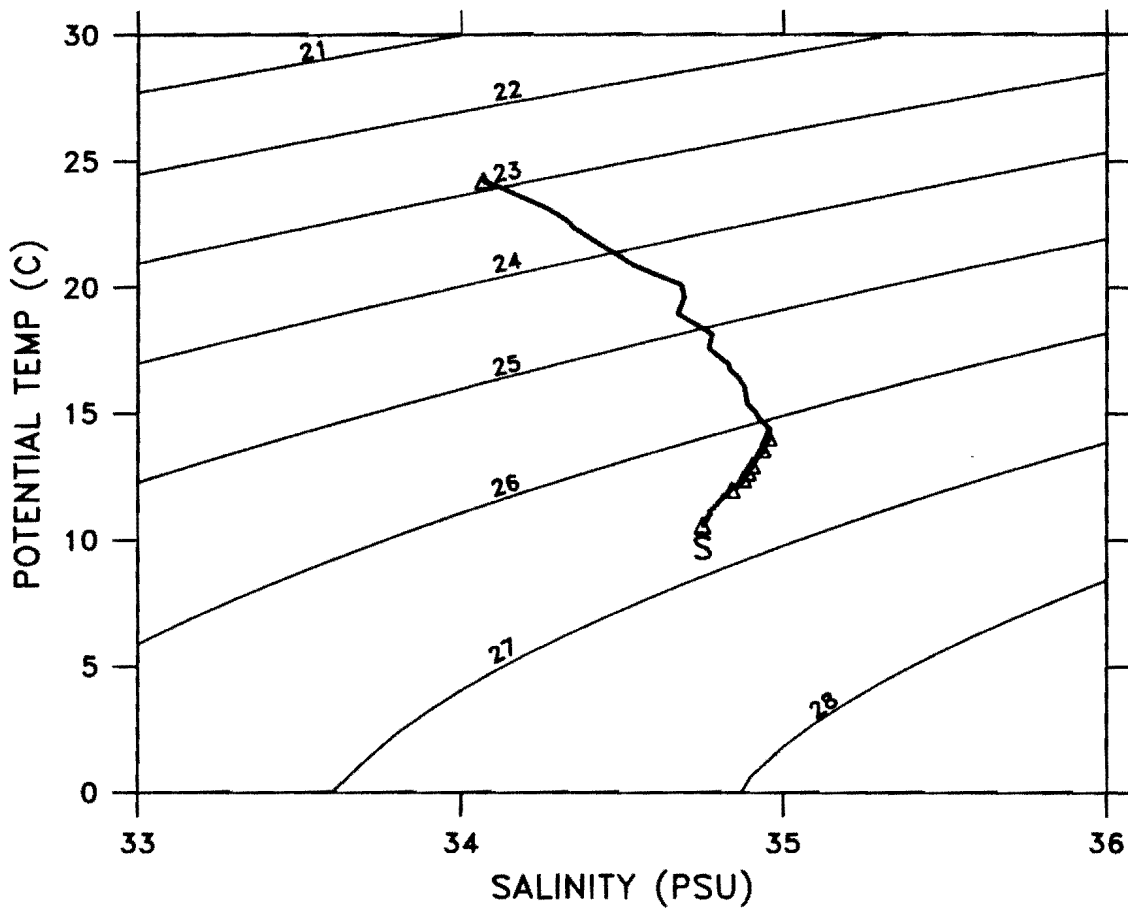


CAST EP4-88-OC -009 DATE 25 OCT 88 TIME 1045 GMT
 LAT 02 00.5N LONG 110 08.9W WEATHER 3 SEA STATE 2
 BAROMETER 12 WIND DIR 145 T SPD 10 KT VISIBILITY 7
 CLOUD X AMOUNT 6 DRY 22.2 WET 19.6 DEPTH 3886 M

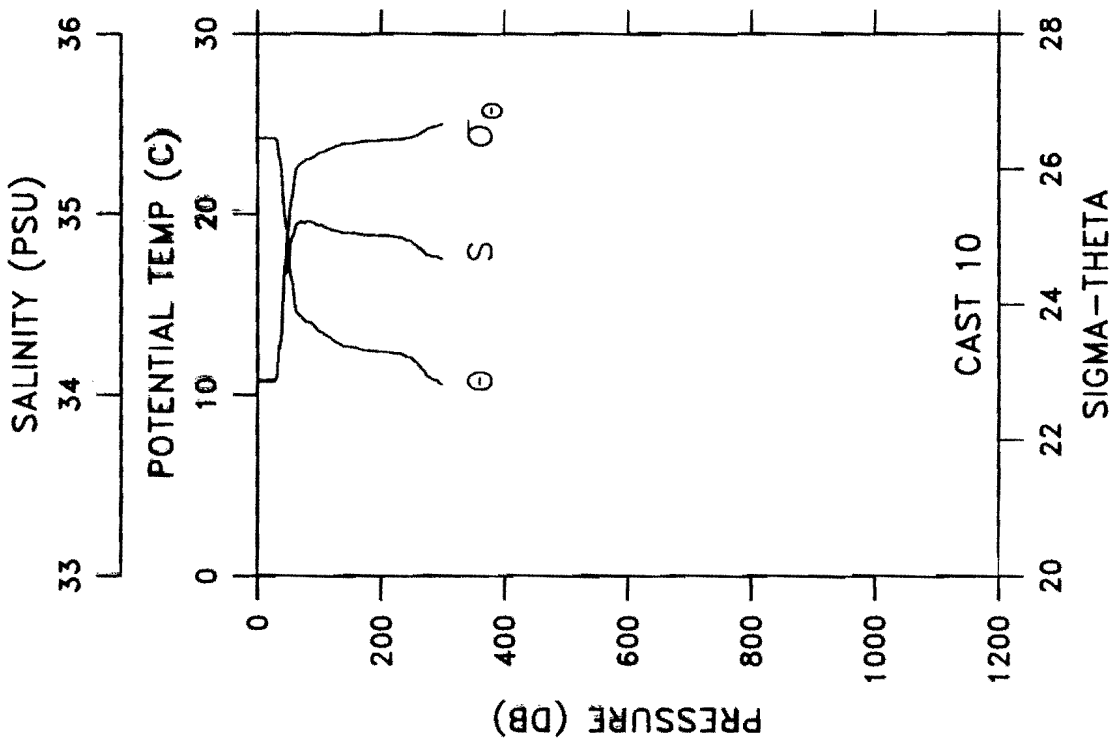


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.272 | 34.054 | 22.846 | 0.000 |
| 10 | 24.278 | 34.051 | 22.843 | 0.050 |
| 20 | 24.278 | 34.052 | 22.844 | 0.100 |
| 30 | 24.267 | 34.056 | 22.850 | 0.150 |
| 40 | 22.809 | 34.306 | 23.463 | 0.199 |
| 50 | 20.107 | 34.669 | 24.482 | 0.239 |
| 60 | 16.577 | 34.838 | 25.491 | 0.269 |
| 70 | 14.611 | 34.939 | 26.010 | 0.291 |
| 80 | 14.252 | 34.947 | 26.094 | 0.311 |
| 90 | 14.036 | 34.956 | 26.147 | 0.330 |
| 100 | 13.832 | 34.941 | 26.177 | 0.349 |
| 110 | 13.567 | 34.936 | 26.229 | 0.367 |
| 120 | 13.324 | 34.921 | 26.267 | 0.385 |
| 130 | 13.170 | 34.912 | 26.291 | 0.403 |
| 140 | 12.883 | 34.900 | 26.340 | 0.420 |
| 150 | 12.686 | 34.892 | 26.372 | 0.437 |
| 160 | 12.656 | 34.891 | 26.377 | 0.454 |
| 170 | 12.605 | 34.888 | 26.385 | 0.471 |
| 180 | 12.487 | 34.881 | 26.403 | 0.487 |
| 190 | 12.439 | 34.879 | 26.411 | 0.504 |
| 200 | 12.413 | 34.878 | 26.415 | 0.521 |
| 250 | 12.126 | 34.850 | 26.449 | 0.603 |
| 300 | 10.773 | 34.758 | 26.628 | 0.681 |
| 350 | 9.417 | 34.696 | 26.812 | 0.751 |
| 400 | 8.818 | 34.670 | 26.889 | 0.814 |
| 450 | 8.443 | 34.654 | 26.935 | 0.875 |
| 500 | 8.128 | 34.638 | 26.970 | 0.934 |
| 550 | 7.430 | 34.598 | 27.042 | 0.991 |
| 600 | 6.758 | 34.575 | 27.118 | 1.044 |
| 650 | 6.266 | 34.564 | 27.174 | 1.095 |
| 700 | 6.083 | 34.566 | 27.199 | 1.144 |
| 750 | 5.777 | 34.561 | 27.234 | 1.191 |
| 800 | 5.493 | 34.565 | 27.272 | 1.236 |
| 900 | 4.945 | 34.558 | 27.332 | 1.323 |
| 1000 | 4.481 | 34.564 | 27.388 | 1.405 |
| 1500 | 3.020 | 34.610 | 27.572 | 1.753 |
| 2000 | 2.211 | 34.641 | 27.667 | 2.036 |
| 2500 | 1.641 | 34.669 | 27.734 | 2.280 |
| 3000 | 1.460 | 34.676 | 27.753 | 2.510 |
| 3500 | 1.240 | 34.689 | 27.779 | 2.732 |
| 3798 | 1.190 | 34.691 | 27.784 | 2.862 |

CAST EP4-88-OC -010 DATE 25 OCT 88 TIME 1329 GMT
LAT 01 57.6N LONG 110 06.3W

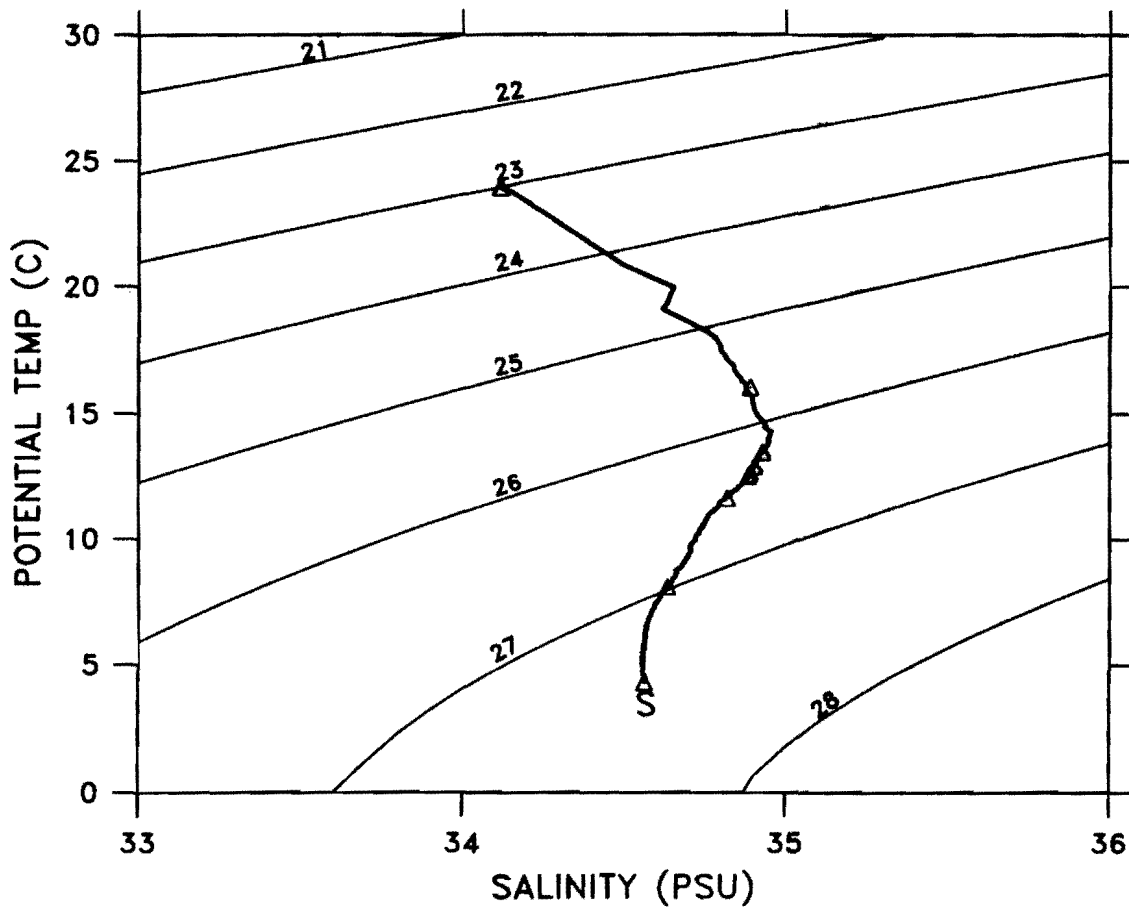


CAST EPA-88-OC -010 DATE 25 OCT 88 TIME 1329 GMT
 LAT 01 57.6N LONG 110 06.3W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 150 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 22.3 WET 19.3 DEPTH 3886 M

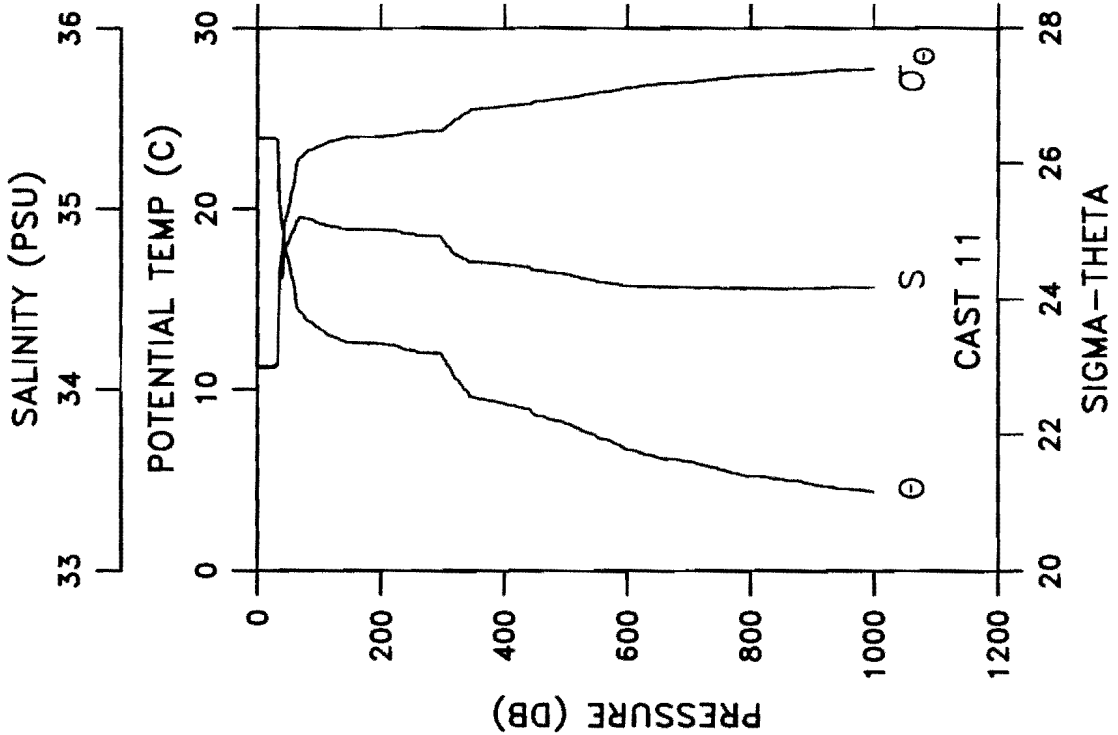


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.192 | 34.072 | 22.884 | 0.000 |
| 10 | 24.192 | 34.071 | 22.883 | 0.050 |
| 20 | 24.198 | 34.071 | 22.882 | 0.099 |
| 30 | 24.146 | 34.086 | 22.908 | 0.149 |
| 40 | 21.624 | 34.443 | 23.900 | 0.195 |
| 50 | 17.857 | 34.774 | 25.135 | 0.228 |
| 60 | 15.075 | 34.912 | 25.888 | 0.253 |
| 70 | 14.353 | 34.958 | 26.081 | 0.273 |
| 80 | 14.039 | 34.957 | 26.146 | 0.292 |
| 90 | 13.886 | 34.953 | 26.176 | 0.311 |
| 100 | 13.529 | 34.933 | 26.234 | 0.329 |
| 110 | 13.326 | 34.927 | 26.271 | 0.347 |
| 120 | 13.081 | 34.909 | 26.307 | 0.364 |
| 130 | 12.866 | 34.903 | 26.345 | 0.382 |
| 140 | 12.681 | 34.894 | 26.375 | 0.398 |
| 150 | 12.658 | 34.893 | 26.379 | 0.415 |
| 160 | 12.606 | 34.890 | 26.387 | 0.432 |
| 170 | 12.492 | 34.884 | 26.404 | 0.449 |
| 180 | 12.437 | 34.882 | 26.413 | 0.465 |
| 190 | 12.412 | 34.879 | 26.416 | 0.482 |
| 200 | 12.383 | 34.878 | 26.421 | 0.498 |
| 250 | 12.013 | 34.842 | 26.464 | 0.580 |
| 299 | 10.565 | 34.753 | 26.661 | 0.655 |

CAST EP4-88-OC -011 DATE 25 OCT 88 TIME 1633 GMT
LAT 01 29.7N LONG 110 00.4W

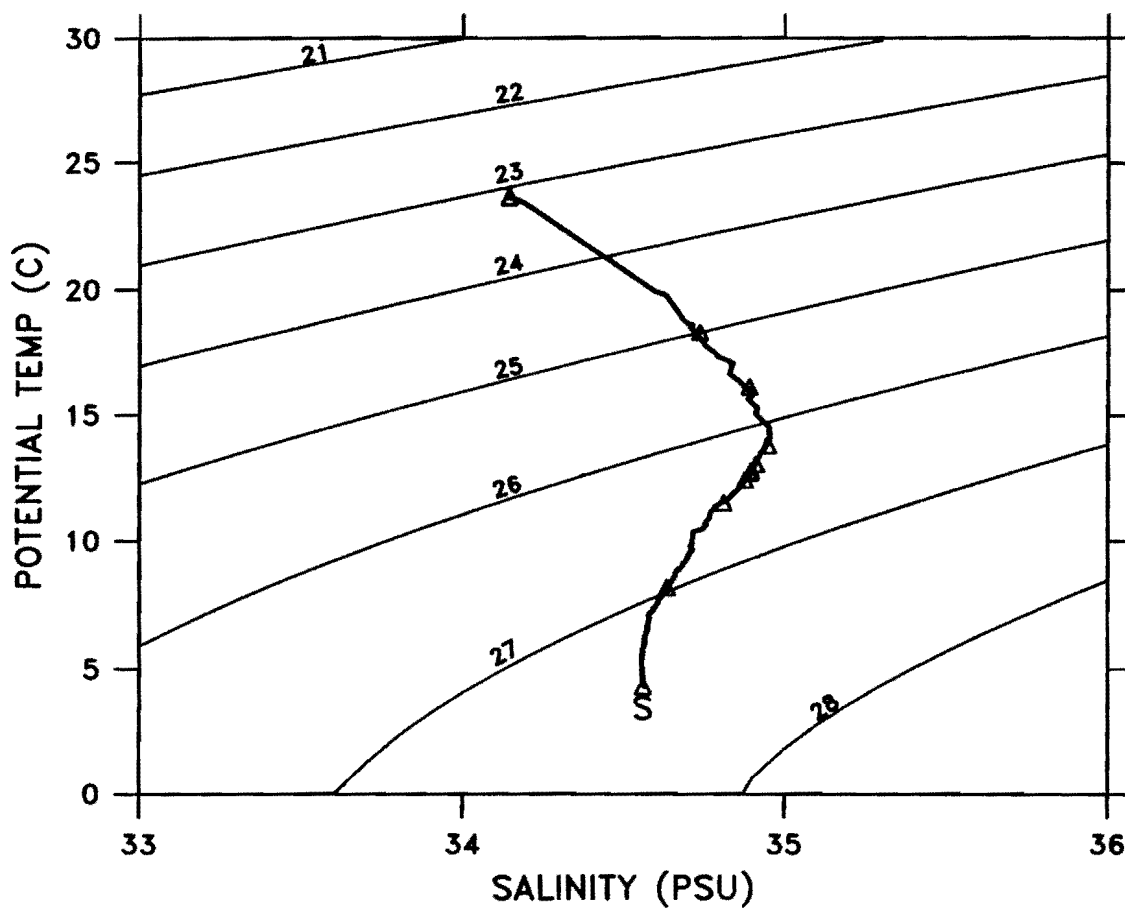


CAST EP4-88-OC -011 DATE 25 OCT 88 TIME 1633 GMT
 LAT 01 29.7N LONG 110 00.4W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DIR 131 T SPD 09 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 21.5 WET 19.4 DEPTH 3733 M

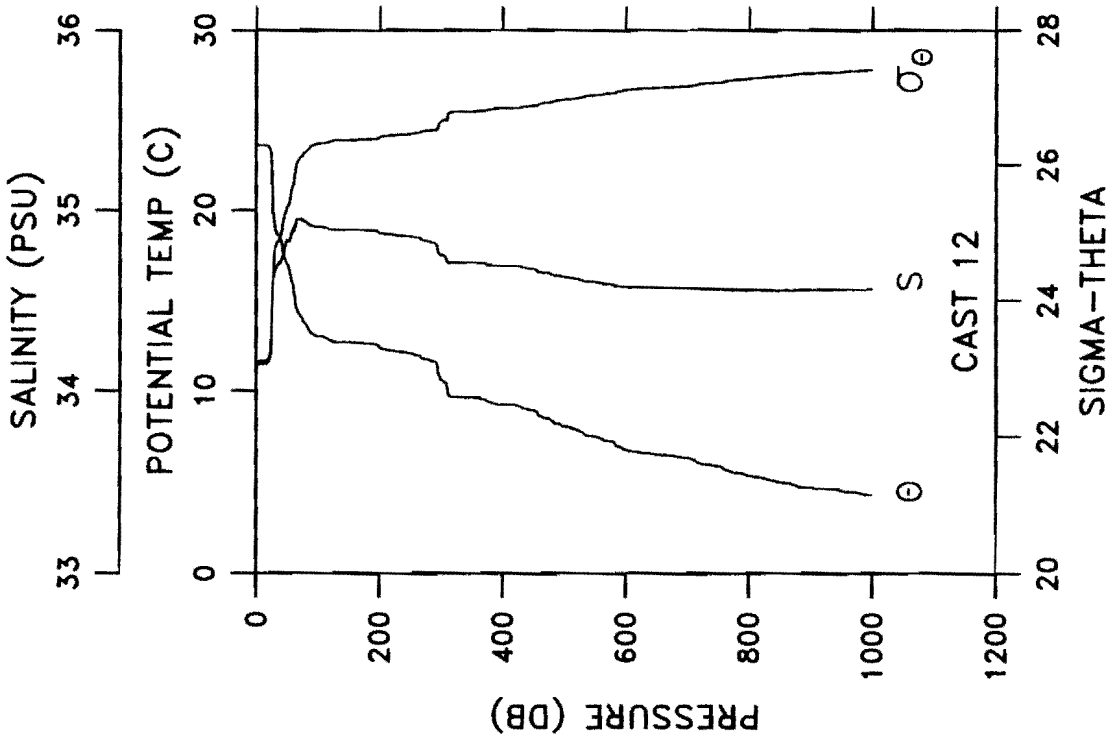


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 23.909 | 34.118 | 23.002 | 0.000 |
| 10 | 23.908 | 34.118 | 23.002 | 0.049 |
| 20 | 23.909 | 34.118 | 23.002 | 0.097 |
| 30 | 23.877 | 34.125 | 23.017 | 0.146 |
| 40 | 19.080 | 34.617 | 24.709 | 0.186 |
| 50 | 17.186 | 34.816 | 25.329 | 0.215 |
| 60 | 15.646 | 34.896 | 25.749 | 0.239 |
| 70 | 14.278 | 34.956 | 26.095 | 0.259 |
| 80 | 13.843 | 34.947 | 26.180 | 0.278 |
| 90 | 13.675 | 34.939 | 26.208 | 0.296 |
| 100 | 13.367 | 34.920 | 26.253 | 0.314 |
| 110 | 13.154 | 34.913 | 26.295 | 0.332 |
| 120 | 12.947 | 34.903 | 26.329 | 0.349 |
| 130 | 12.831 | 34.900 | 26.350 | 0.366 |
| 140 | 12.658 | 34.892 | 26.378 | 0.383 |
| 150 | 12.582 | 34.889 | 26.391 | 0.400 |
| 160 | 12.571 | 34.888 | 26.392 | 0.417 |
| 170 | 12.559 | 34.889 | 26.395 | 0.433 |
| 180 | 12.547 | 34.888 | 26.397 | 0.450 |
| 190 | 12.539 | 34.888 | 26.399 | 0.467 |
| 200 | 12.535 | 34.888 | 26.399 | 0.483 |
| 250 | 12.153 | 34.863 | 26.454 | 0.566 |
| 300 | 11.784 | 34.825 | 26.495 | 0.647 |
| 350 | 9.554 | 34.707 | 26.799 | 0.720 |
| 400 | 9.199 | 34.693 | 26.846 | 0.785 |
| 450 | 8.578 | 34.660 | 26.919 | 0.848 |
| 500 | 8.115 | 34.638 | 26.972 | 0.907 |
| 550 | 7.400 | 34.595 | 27.044 | 0.964 |
| 600 | 6.694 | 34.575 | 27.126 | 1.018 |
| 650 | 6.239 | 34.565 | 27.179 | 1.068 |
| 700 | 6.028 | 34.567 | 27.207 | 1.116 |
| 750 | 5.589 | 34.563 | 27.258 | 1.162 |
| 800 | 5.214 | 34.560 | 27.302 | 1.207 |
| 900 | 4.756 | 34.558 | 27.353 | 1.291 |
| 1000 | 4.348 | 34.566 | 27.404 | 1.371 |
| 1007 | 4.325 | 34.566 | 27.407 | 1.376 |

CAST EP4-88-OC -012 DATE 25 OCT 88 TIME 2007 GMT
LAT 00 59.6N LONG 110 00.7W

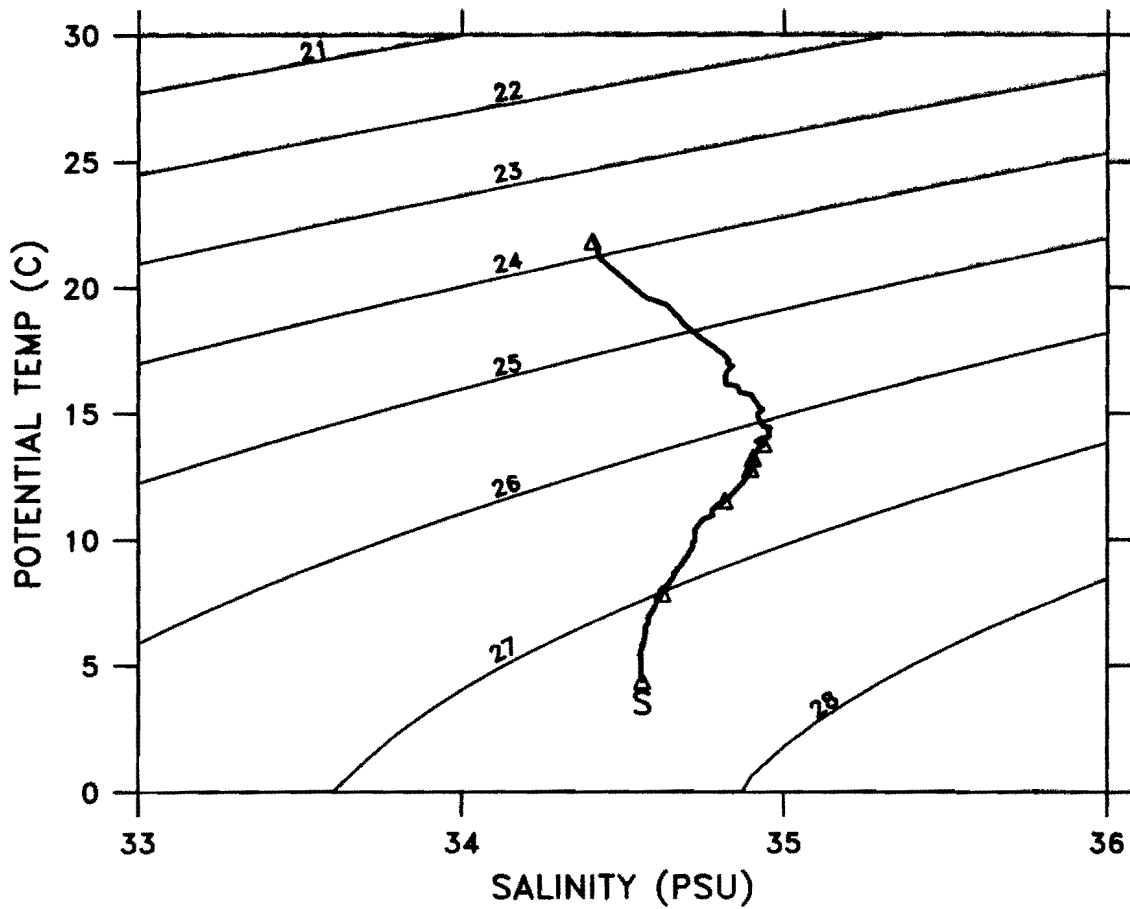


CAST EP4-88-OC -012 DATE 25 OCT 88 TIME 2007 GMT
 LAT 00 59.6N LONG 110 00.7W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DIR 155 T SPD 12 KT VISIBILITY 7
 CLOUD 4 AMOUNT 7 DRY 21.8 WET 19.8 DEPTH 3803 M

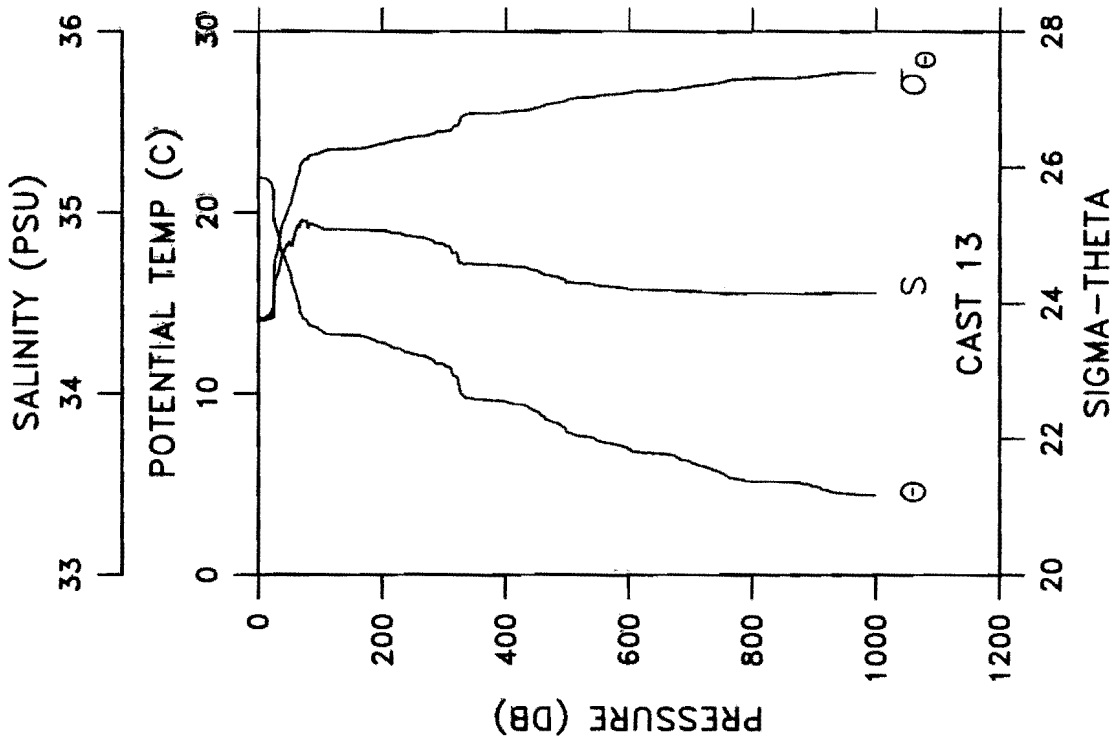


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 23.623 | 34.135 | 23.099 | 0.000 |
| 10 | 23.614 | 34.151 | 23.114 | 0.048 |
| 20 | 23.564 | 34.161 | 23.136 | 0.095 |
| 30 | 19.232 | 34.662 | 24.705 | 0.136 |
| 40 | 18.365 | 34.721 | 24.969 | 0.167 |
| 50 | 17.062 | 34.838 | 25.376 | 0.195 |
| 60 | 15.836 | 34.901 | 25.709 | 0.220 |
| 70 | 14.229 | 34.952 | 26.102 | 0.240 |
| 80 | 13.707 | 34.939 | 26.202 | 0.259 |
| 90 | 13.177 | 34.915 | 26.292 | 0.277 |
| 100 | 13.015 | 34.909 | 26.320 | 0.294 |
| 110 | 12.979 | 34.906 | 26.325 | 0.311 |
| 120 | 12.810 | 34.897 | 26.352 | 0.328 |
| 130 | 12.713 | 34.895 | 26.369 | 0.345 |
| 140 | 12.696 | 34.894 | 26.372 | 0.362 |
| 150 | 12.690 | 34.894 | 26.373 | 0.379 |
| 160 | 12.677 | 34.894 | 26.375 | 0.396 |
| 170 | 12.657 | 34.893 | 26.379 | 0.413 |
| 180 | 12.635 | 34.893 | 26.383 | 0.430 |
| 190 | 12.600 | 34.889 | 26.387 | 0.446 |
| 200 | 12.426 | 34.874 | 26.409 | 0.463 |
| 250 | 12.099 | 34.858 | 26.460 | 0.545 |
| 300 | 10.607 | 34.757 | 26.657 | 0.624 |
| 350 | 9.634 | 34.713 | 26.790 | 0.692 |
| 400 | 9.242 | 34.695 | 26.841 | 0.757 |
| 450 | 8.932 | 34.677 | 26.877 | 0.821 |
| 500 | 8.064 | 34.632 | 26.975 | 0.881 |
| 550 | 7.513 | 34.605 | 27.035 | 0.938 |
| 600 | 6.780 | 34.576 | 27.115 | 0.992 |
| 650 | 6.515 | 34.575 | 27.150 | 1.043 |
| 700 | 6.322 | 34.569 | 27.171 | 1.093 |
| 750 | 5.874 | 34.564 | 27.224 | 1.142 |
| 800 | 5.355 | 34.558 | 27.283 | 1.187 |
| 900 | 4.716 | 34.560 | 27.359 | 1.272 |
| 1000 | 4.291 | 34.564 | 27.409 | 1.351 |
| 1001 | 4.284 | 34.564 | 27.409 | 1.352 |

CAST EP4-88-OC -013 DATE 25 OCT 88 TIME 2335 GMT
LAT 00 29.6N LONG 110 00.4W

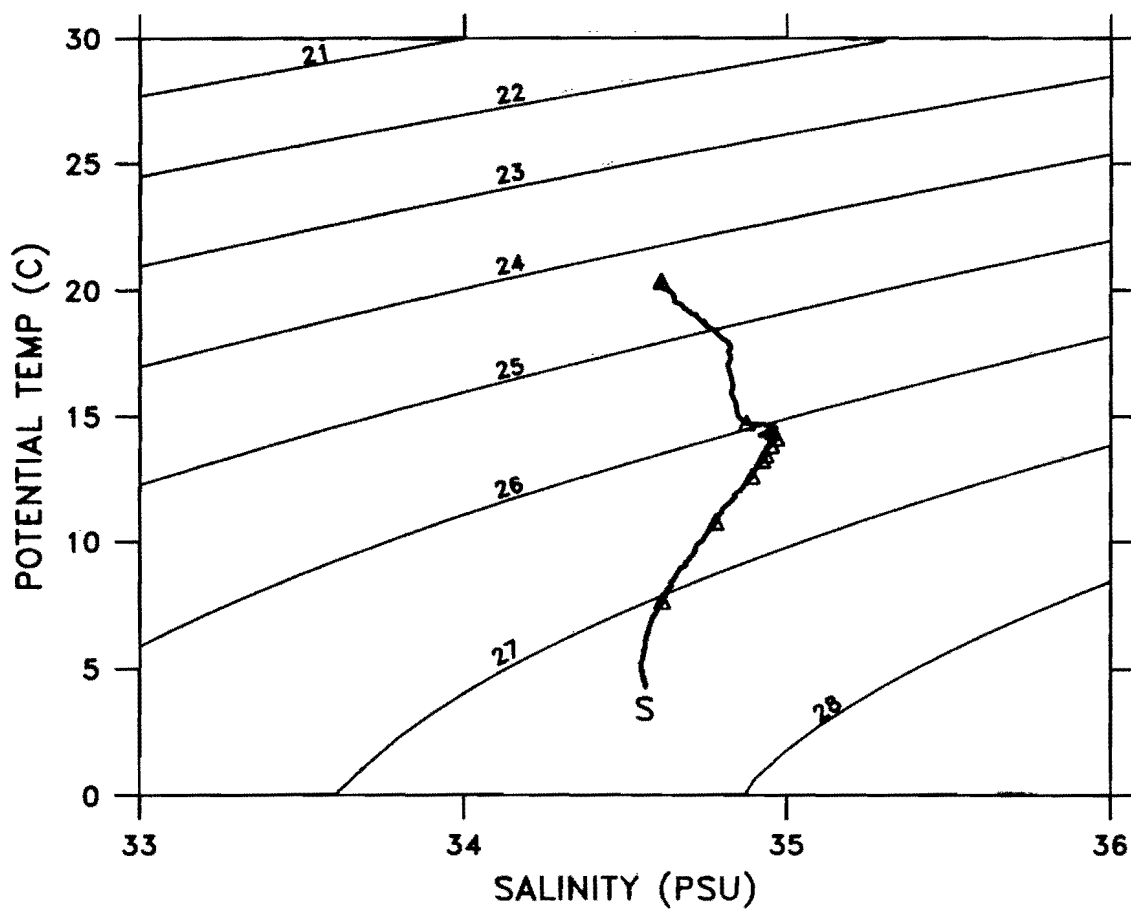


CAST EP4-88-OC -013 DATE 25 OCT 88 TIME 2335 GMT
 LAT 00 29.6N LONG 110 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 135 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 21.2 WET 19.3 DEPTH 3743 M

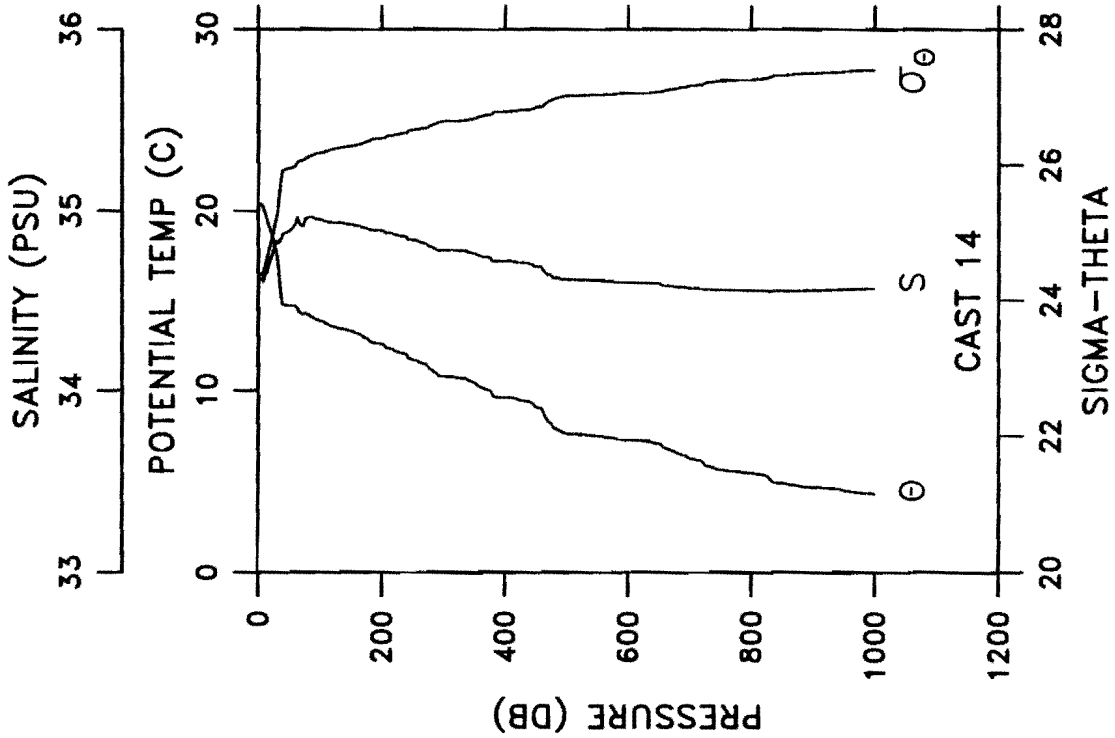


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.936 | 34.401 | 23.782 | 0.000 |
| 10 | 21.929 | 34.407 | 23.789 | 0.041 |
| 20 | 21.658 | 34.418 | 23.873 | 0.082 |
| 30 | 19.022 | 34.655 | 24.754 | 0.118 |
| 40 | 17.626 | 34.782 | 25.198 | 0.147 |
| 50 | 16.820 | 34.839 | 25.435 | 0.174 |
| 60 | 15.665 | 34.901 | 25.748 | 0.198 |
| 70 | 14.381 | 34.957 | 26.074 | 0.219 |
| 80 | 13.893 | 34.913 | 26.143 | 0.238 |
| 90 | 13.716 | 34.931 | 26.194 | 0.257 |
| 100 | 13.517 | 34.917 | 26.224 | 0.275 |
| 110 | 13.306 | 34.909 | 26.261 | 0.293 |
| 120 | 13.272 | 34.908 | 26.267 | 0.311 |
| 130 | 13.252 | 34.907 | 26.271 | 0.328 |
| 140 | 13.244 | 34.906 | 26.271 | 0.346 |
| 150 | 13.241 | 34.906 | 26.272 | 0.364 |
| 160 | 13.225 | 34.905 | 26.275 | 0.382 |
| 170 | 13.165 | 34.906 | 26.287 | 0.400 |
| 180 | 13.067 | 34.903 | 26.305 | 0.417 |
| 190 | 12.905 | 34.899 | 26.335 | 0.435 |
| 200 | 12.821 | 34.898 | 26.350 | 0.452 |
| 250 | 12.197 | 34.868 | 26.449 | 0.536 |
| 300 | 11.627 | 34.825 | 26.524 | 0.616 |
| 350 | 9.662 | 34.715 | 26.787 | 0.688 |
| 400 | 9.539 | 34.708 | 26.802 | 0.755 |
| 450 | 9.011 | 34.684 | 26.869 | 0.820 |
| 500 | 7.867 | 34.619 | 26.995 | 0.880 |
| 550 | 7.397 | 34.601 | 27.049 | 0.936 |
| 600 | 6.960 | 34.583 | 27.096 | 0.990 |
| 650 | 6.696 | 34.578 | 27.128 | 1.042 |
| 700 | 6.250 | 34.568 | 27.179 | 1.093 |
| 750 | 5.648 | 34.557 | 27.247 | 1.140 |
| 800 | 5.188 | 34.556 | 27.301 | 1.184 |
| 900 | 4.902 | 34.557 | 27.335 | 1.270 |
| 1000 | 4.399 | 34.562 | 27.395 | 1.350 |
| 1001 | 4.386 | 34.562 | 27.397 | 1.351 |

CAST EP4-88-OC -014 DATE 26 OCT 88 TIME 0510 GMT
LAT 00 30.1S LONG 110 00.7W

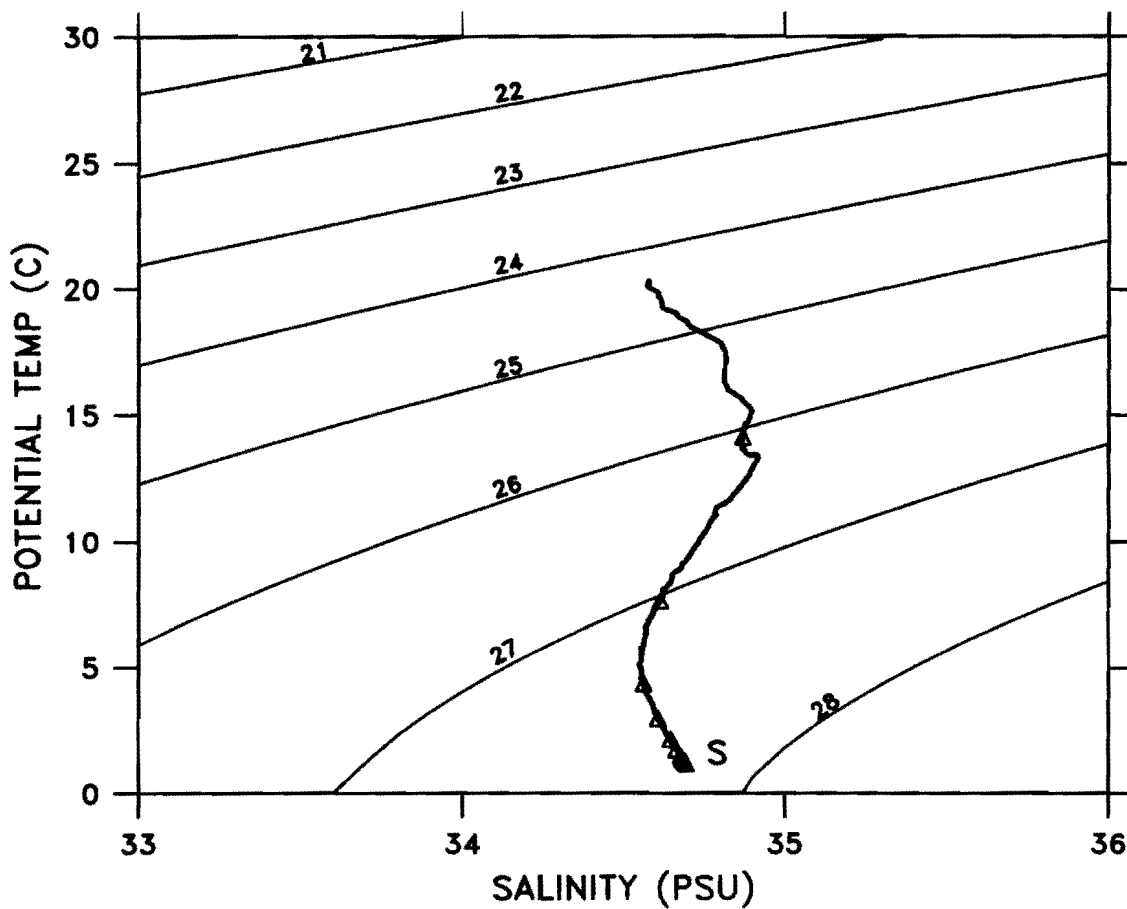


CAST EP4-88-0C -014 DATE 26 OCT 88 TIME 0510 GMT
 LAT 00 30.1S LONG 110 00.7W WEATHER 0 SEA STATE 3
 BAROMETER 14 WIND DIR 110 T SPD 10 KT VISIBILITY 7
 CLOUD X AMOUNT 0 DRY 20.2 WET 19.2 DEPTH 3621 M

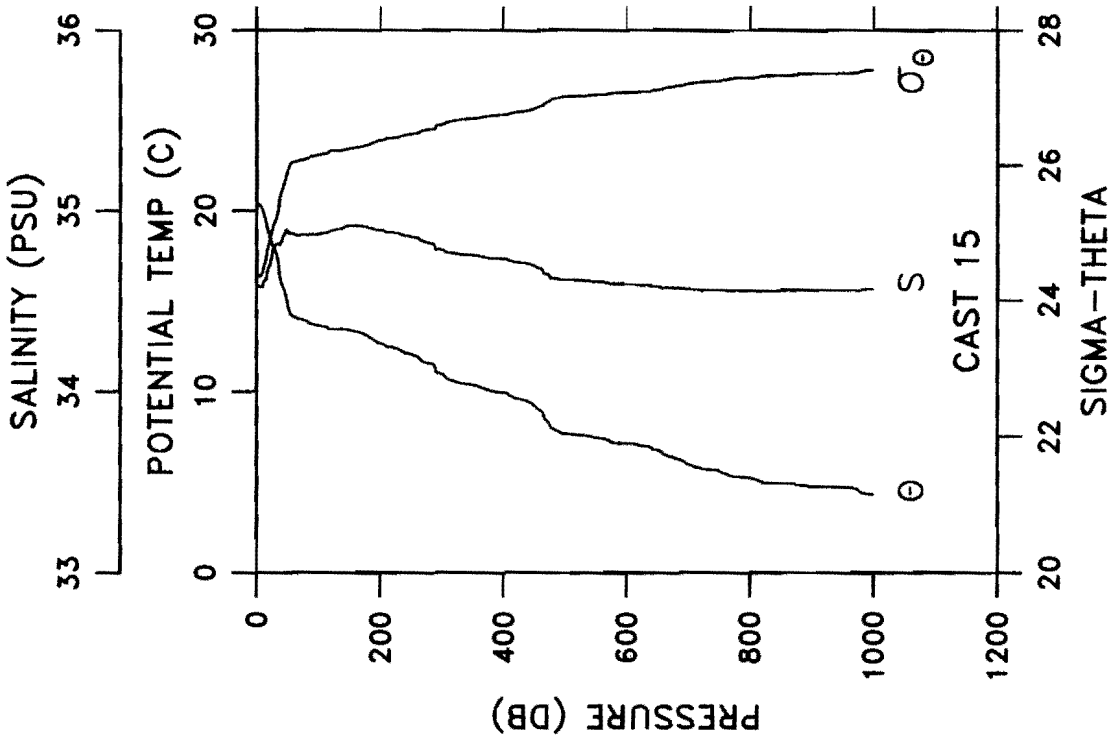


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.352 | 34.616 | 24.377 | 0.000 |
| 10 | 19.981 | 34.633 | 24.488 | 0.035 |
| 20 | 18.837 | 34.728 | 24.856 | 0.068 |
| 30 | 17.598 | 34.817 | 25.231 | 0.097 |
| 40 | 14.750 | 34.870 | 25.927 | 0.121 |
| 50 | 14.693 | 34.886 | 25.951 | 0.142 |
| 60 | 14.682 | 34.928 | 25.987 | 0.162 |
| 70 | 14.258 | 34.916 | 26.069 | 0.182 |
| 80 | 14.188 | 34.963 | 26.119 | 0.201 |
| 90 | 14.002 | 34.960 | 26.156 | 0.220 |
| 100 | 13.858 | 34.951 | 26.180 | 0.239 |
| 110 | 13.698 | 34.940 | 26.204 | 0.257 |
| 120 | 13.548 | 34.933 | 26.230 | 0.275 |
| 130 | 13.442 | 34.934 | 26.252 | 0.293 |
| 140 | 13.364 | 34.930 | 26.265 | 0.311 |
| 150 | 13.281 | 34.923 | 26.277 | 0.329 |
| 160 | 13.150 | 34.916 | 26.298 | 0.347 |
| 170 | 12.971 | 34.907 | 26.327 | 0.364 |
| 180 | 12.767 | 34.894 | 26.358 | 0.381 |
| 190 | 12.609 | 34.891 | 26.387 | 0.398 |
| 200 | 12.552 | 34.889 | 26.397 | 0.415 |
| 250 | 11.716 | 34.838 | 26.518 | 0.496 |
| 300 | 10.776 | 34.780 | 26.645 | 0.572 |
| 350 | 10.449 | 34.760 | 26.687 | 0.645 |
| 400 | 9.638 | 34.716 | 26.792 | 0.714 |
| 450 | 9.104 | 34.688 | 26.857 | 0.780 |
| 500 | 7.647 | 34.614 | 27.023 | 0.839 |
| 550 | 7.502 | 34.608 | 27.039 | 0.895 |
| 600 | 7.287 | 34.599 | 27.063 | 0.950 |
| 650 | 7.092 | 34.591 | 27.084 | 1.004 |
| 700 | 6.278 | 34.566 | 27.174 | 1.056 |
| 750 | 5.662 | 34.558 | 27.246 | 1.103 |
| 800 | 5.492 | 34.554 | 27.263 | 1.149 |
| 900 | 4.706 | 34.555 | 27.356 | 1.234 |
| 1000 | 4.311 | 34.562 | 27.405 | 1.313 |
| 1004 | 4.288 | 34.563 | 27.408 | 1.316 |

CAST EP4-88-OC -015 DATE 26 OCT 88 TIME 0933 GMT
LAT 00 01.3S LONG 110 10.0W

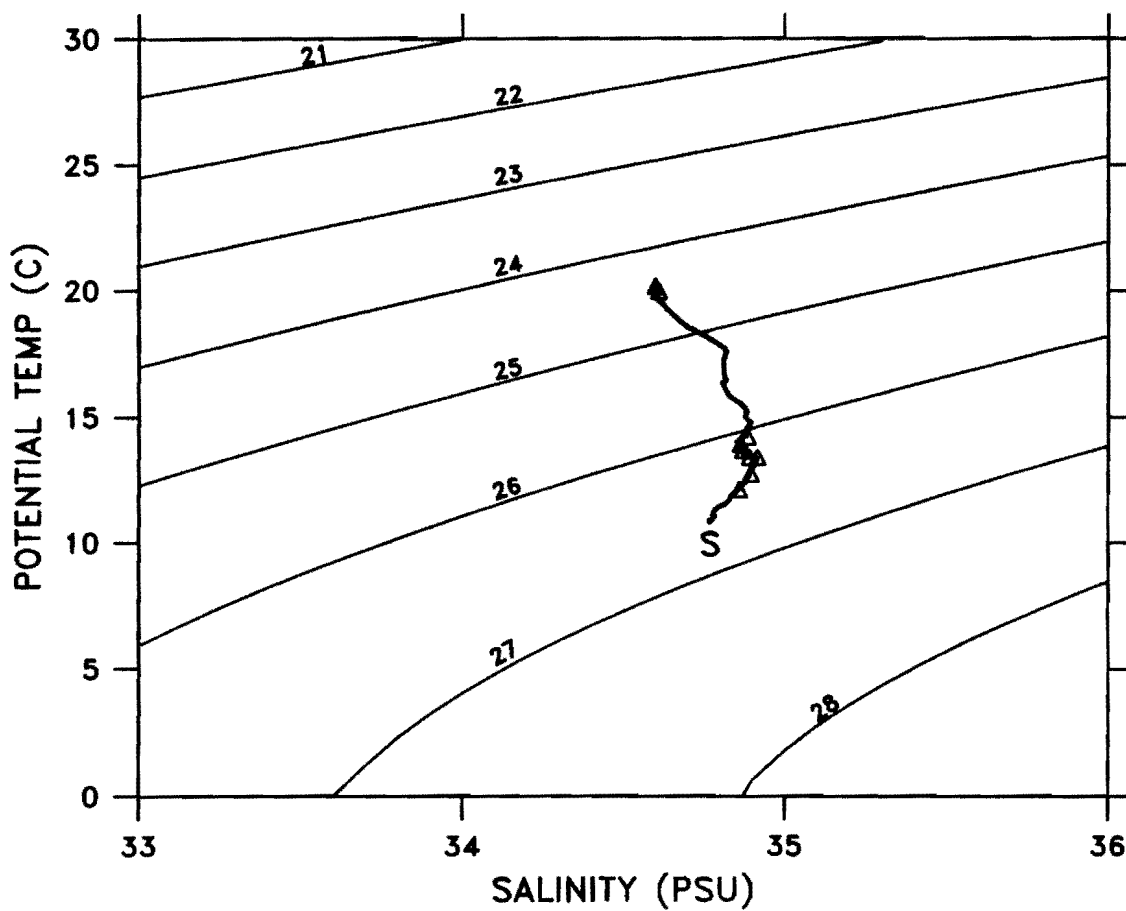


CAST EP4-88-OC -015 DATE 26 OCT 88 TIME 0933 GMT
 LAT 00 01.3S LONG 110 10.0W WEATHER 0 SEA STATE 3
 BAROMETER 12 WIND DIR 110 T SPD 10 KT VISIBILITY 7
 CLOUD X AMOUNT 0 DRY 21.1 WET 18.9 DEPTH 3795 M

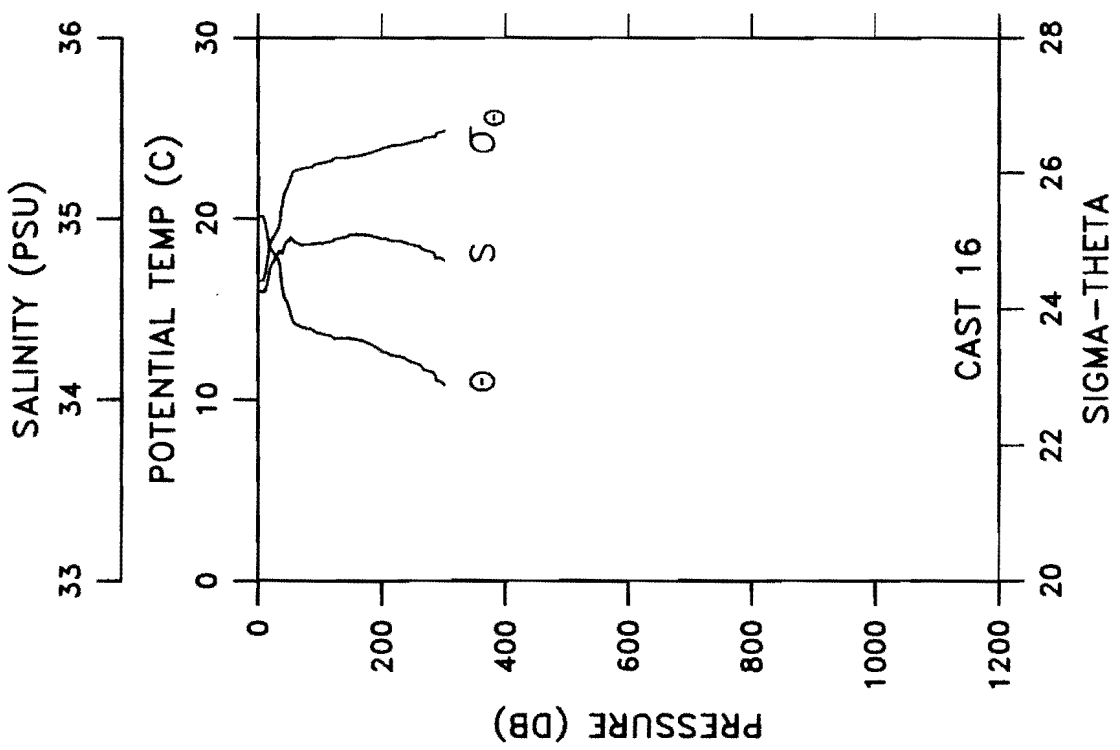


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.319 | 34.578 | 24.357 | 0.000 |
| 10 | 20.043 | 34.578 | 24.430 | 0.036 |
| 20 | 18.724 | 34.694 | 24.859 | 0.068 |
| 30 | 17.768 | 34.806 | 25.182 | 0.098 |
| 40 | 15.971 | 34.824 | 25.619 | 0.124 |
| 50 | 14.744 | 34.887 | 25.941 | 0.146 |
| 60 | 14.123 | 34.870 | 26.061 | 0.166 |
| 70 | 13.983 | 34.863 | 26.085 | 0.185 |
| 80 | 13.889 | 34.864 | 26.106 | 0.205 |
| 90 | 13.697 | 34.868 | 26.149 | 0.224 |
| 100 | 13.618 | 34.870 | 26.167 | 0.242 |
| 110 | 13.560 | 34.875 | 26.183 | 0.261 |
| 120 | 13.398 | 34.888 | 26.226 | 0.280 |
| 130 | 13.401 | 34.896 | 26.232 | 0.298 |
| 140 | 13.410 | 34.903 | 26.235 | 0.316 |
| 150 | 13.357 | 34.916 | 26.256 | 0.334 |
| 160 | 13.294 | 34.916 | 26.269 | 0.352 |
| 170 | 13.207 | 34.914 | 26.285 | 0.370 |
| 180 | 13.034 | 34.905 | 26.313 | 0.387 |
| 190 | 12.804 | 34.897 | 26.353 | 0.405 |
| 200 | 12.627 | 34.892 | 26.384 | 0.422 |
| 250 | 12.041 | 34.854 | 26.469 | 0.504 |
| 300 | 10.967 | 34.783 | 26.613 | 0.582 |
| 350 | 10.366 | 34.752 | 26.695 | 0.654 |
| 400 | 9.943 | 34.732 | 26.753 | 0.724 |
| 450 | 9.234 | 34.692 | 26.839 | 0.791 |
| 500 | 7.668 | 34.615 | 27.021 | 0.851 |
| 550 | 7.440 | 34.604 | 27.045 | 0.906 |
| 600 | 7.128 | 34.591 | 27.079 | 0.961 |
| 650 | 6.788 | 34.578 | 27.115 | 1.014 |
| 700 | 5.998 | 34.564 | 27.209 | 1.064 |
| 750 | 5.650 | 34.556 | 27.246 | 1.110 |
| 800 | 5.246 | 34.552 | 27.291 | 1.154 |
| 900 | 4.750 | 34.557 | 27.352 | 1.239 |
| 1000 | 4.357 | 34.563 | 27.401 | 1.320 |
| 1500 | 2.966 | 34.606 | 27.574 | 1.659 |
| 2000 | 2.121 | 34.645 | 27.677 | 1.936 |
| 2500 | 1.716 | 34.663 | 27.724 | 2.182 |
| 3000 | 1.478 | 34.675 | 27.751 | 2.415 |
| 3500 | 1.262 | 34.687 | 27.776 | 2.639 |
| 3699 | 1.164 | 34.693 | 27.787 | 2.726 |

CAST EP4-88-OC -016 DATE 26 OCT 88 TIME 1230 GMT
LAT 00 00.6S LONG 110 11.3W

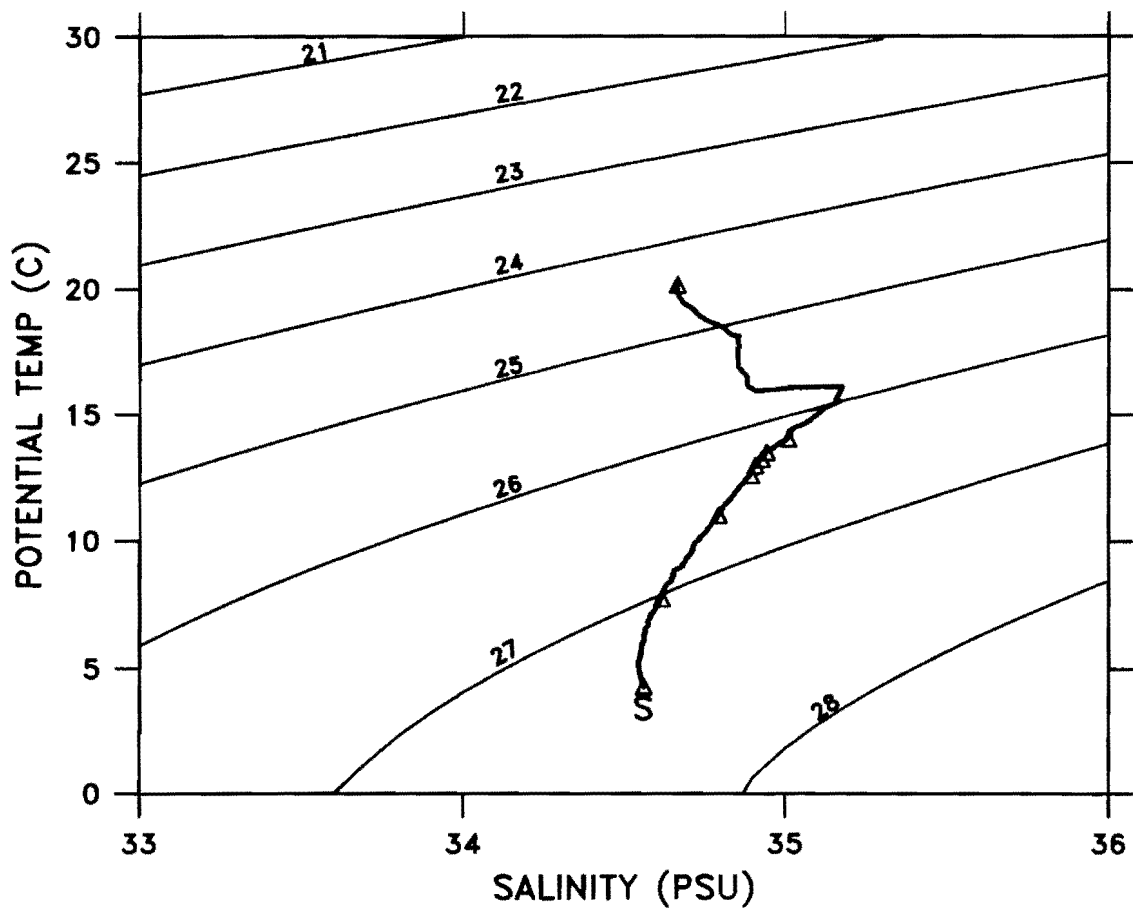


CAST EP4-88-OC -016 DATE 26 OCT 88 TIME 1230 GMT
 LAT 00 00.6S LONG 110 11.3W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 115 T SPD 11 KT VISIBILITY 8
 CLOUD 0 AMOUNT 2 DRY 23.0 WET 19.8 DEPTH 3818 M

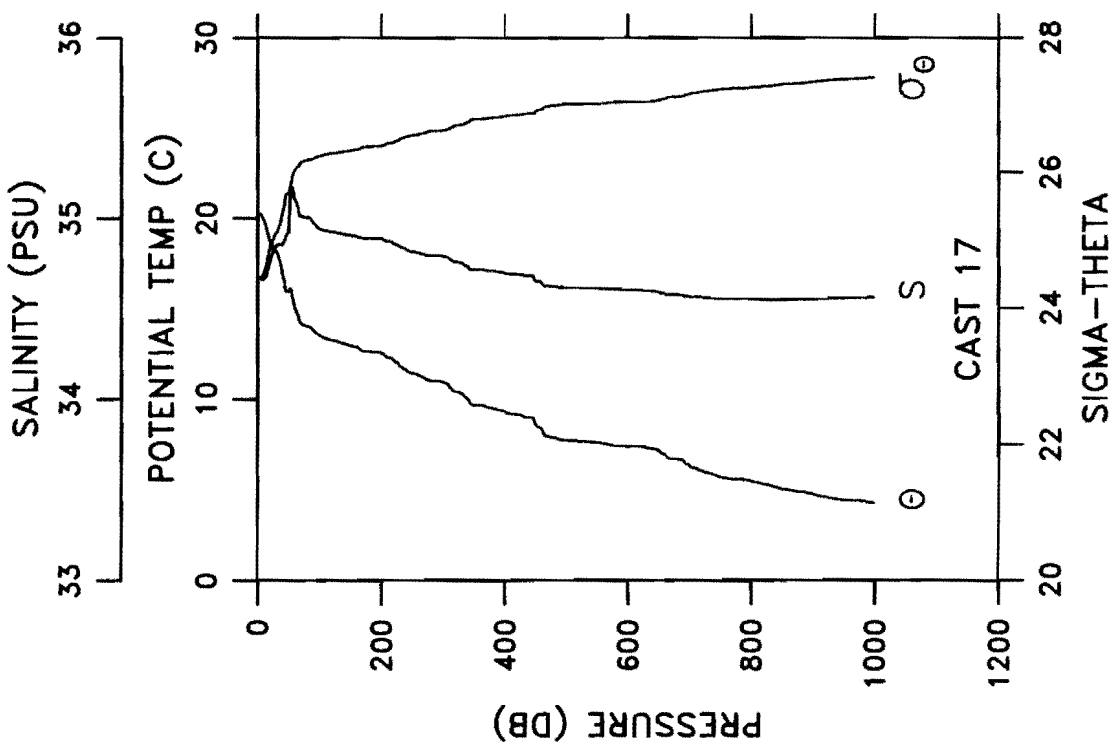


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.132 | 34.599 | 24.422 | 0.000 |
| 10 | 19.899 | 34.604 | 24.487 | 0.035 |
| 20 | 18.342 | 34.730 | 24.982 | 0.067 |
| 30 | 17.863 | 34.796 | 25.150 | 0.096 |
| 40 | 16.079 | 34.817 | 25.590 | 0.123 |
| 50 | 15.071 | 34.879 | 25.863 | 0.145 |
| 60 | 14.177 | 34.869 | 26.049 | 0.165 |
| 70 | 14.005 | 34.852 | 26.072 | 0.185 |
| 80 | 13.924 | 34.857 | 26.093 | 0.204 |
| 90 | 13.765 | 34.860 | 26.129 | 0.224 |
| 100 | 13.660 | 34.864 | 26.154 | 0.242 |
| 110 | 13.580 | 34.869 | 26.174 | 0.261 |
| 120 | 13.479 | 34.875 | 26.200 | 0.280 |
| 130 | 13.387 | 34.891 | 26.231 | 0.298 |
| 140 | 13.400 | 34.896 | 26.232 | 0.316 |
| 150 | 13.381 | 34.911 | 26.247 | 0.334 |
| 160 | 13.323 | 34.912 | 26.260 | 0.352 |
| 170 | 13.240 | 34.911 | 26.276 | 0.370 |
| 180 | 13.102 | 34.908 | 26.302 | 0.388 |
| 190 | 12.905 | 34.897 | 26.333 | 0.405 |
| 200 | 12.674 | 34.888 | 26.371 | 0.423 |
| 250 | 12.071 | 34.855 | 26.463 | 0.506 |
| 300 | 10.891 | 34.772 | 26.618 | 0.584 |
| 302 | 10.796 | 34.766 | 26.631 | 0.587 |

CAST EP4-88-OC -017 DATE 27 OCT 88 TIME 0937 GMT
LAT 01 00.4S LONG 109 59.9W

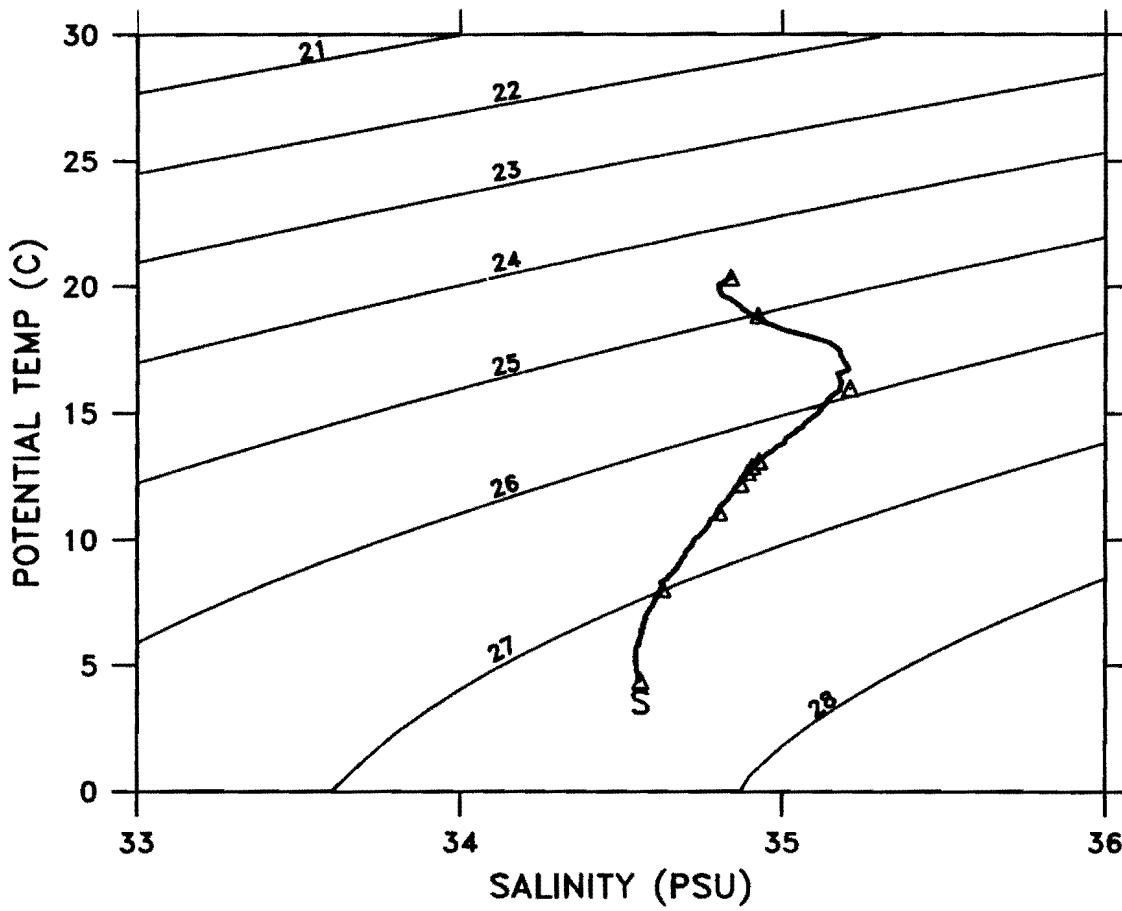


CAST EP4-88-OC -017 DATE 27 OCT 88 TIME 0937 GMT
 LAT 01 00.4S LONG 109 59.9W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 140 T SPD 06 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 20.0 WET 19.6 DEPTH 3945 M

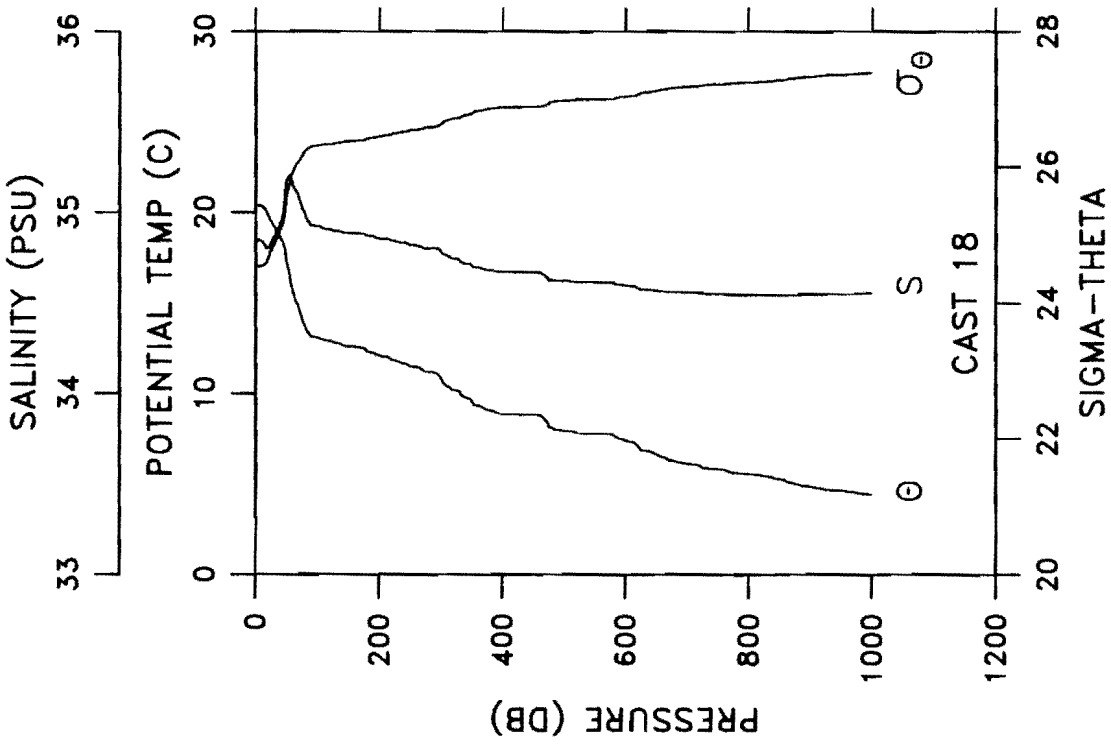


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.239 | 34.666 | 24.445 | 0.000 |
| 10 | 19.877 | 34.663 | 24.538 | 0.035 |
| 20 | 18.751 | 34.759 | 24.901 | 0.067 |
| 30 | 18.154 | 34.847 | 25.118 | 0.096 |
| 40 | 16.892 | 34.854 | 25.428 | 0.124 |
| 50 | 15.950 | 34.932 | 25.708 | 0.147 |
| 60 | 15.022 | 35.102 | 26.046 | 0.168 |
| 70 | 14.185 | 35.013 | 26.159 | 0.187 |
| 80 | 14.015 | 35.004 | 26.188 | 0.206 |
| 90 | 13.784 | 34.974 | 26.213 | 0.224 |
| 100 | 13.514 | 34.940 | 26.242 | 0.242 |
| 110 | 13.358 | 34.932 | 26.268 | 0.260 |
| 120 | 13.260 | 34.925 | 26.283 | 0.278 |
| 130 | 13.173 | 34.919 | 26.296 | 0.296 |
| 140 | 13.065 | 34.911 | 26.312 | 0.313 |
| 150 | 12.970 | 34.905 | 26.326 | 0.330 |
| 160 | 12.885 | 34.900 | 26.339 | 0.348 |
| 170 | 12.663 | 34.890 | 26.376 | 0.365 |
| 180 | 12.623 | 34.890 | 26.383 | 0.382 |
| 190 | 12.601 | 34.889 | 26.387 | 0.398 |
| 200 | 12.551 | 34.886 | 26.394 | 0.415 |
| 250 | 11.464 | 34.814 | 26.546 | 0.496 |
| 300 | 10.959 | 34.789 | 26.619 | 0.571 |
| 350 | 9.681 | 34.715 | 26.784 | 0.641 |
| 400 | 8.330 | 34.695 | 26.826 | 0.707 |
| 450 | 8.614 | 34.656 | 26.910 | 0.771 |
| 500 | 7.742 | 34.616 | 27.011 | 0.829 |
| 550 | 7.620 | 34.611 | 27.025 | 0.885 |
| 600 | 7.418 | 34.602 | 27.046 | 0.941 |
| 650 | 7.178 | 34.591 | 27.072 | 0.996 |
| 700 | 6.336 | 34.564 | 27.165 | 1.048 |
| 750 | 5.715 | 34.553 | 27.235 | 1.096 |
| 800 | 5.481 | 34.550 | 27.262 | 1.142 |
| 900 | 4.778 | 34.549 | 27.343 | 1.229 |
| 1000 | 4.271 | 34.561 | 27.408 | 1.308 |
| 1001 | 4.269 | 34.561 | 27.409 | 1.309 |

CAST EP4-88-OC -018 DATE 27 OCT 88 TIME 1258 GMT
LAT 01 29.4S LONG 109 58.7W

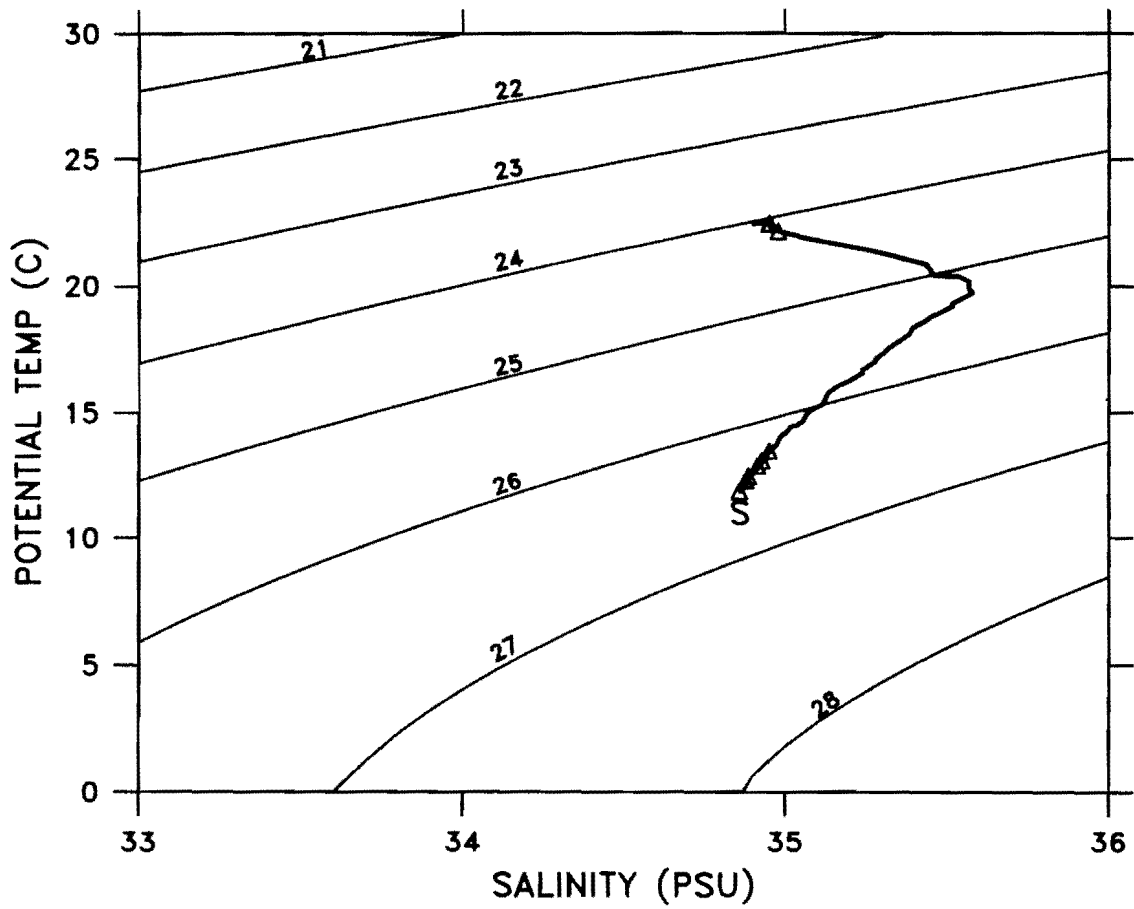


CAST EP4-88-0C -018 DATE 27 OCT 88 TIME 1258 GMT
 LAT 01 29.4S LONG 109 58.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 130 T SPD 09 KT VISIBILITY 8
 CLOUD 7 AMOUNT 3 DRY 20.1 WET 19.6 DEPTH 3846 M

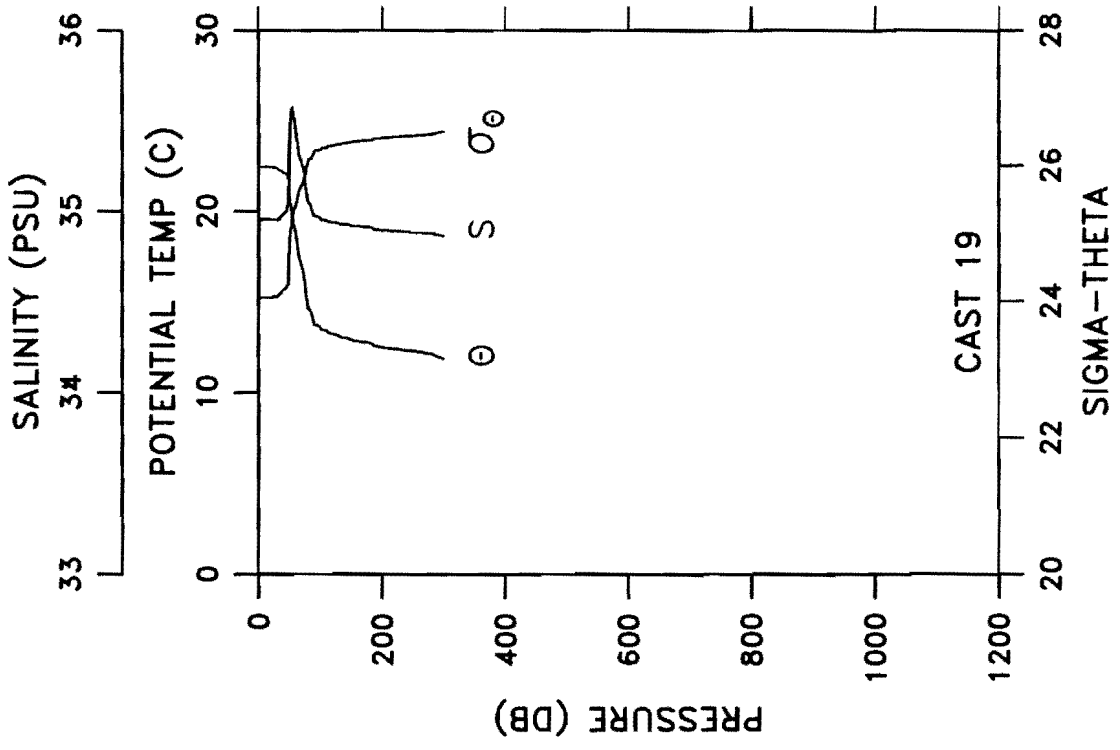


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.390 | 34.847 | 24.543 | 0.000 |
| 10 | 20.344 | 34.839 | 24.549 | 0.034 |
| 20 | 19.848 | 34.803 | 24.652 | 0.067 |
| 30 | 19.215 | 34.869 | 24.867 | 0.099 |
| 40 | 18.601 | 34.943 | 25.080 | 0.129 |
| 50 | 17.318 | 35.178 | 25.576 | 0.156 |
| 60 | 15.715 | 35.156 | 25.934 | 0.178 |
| 70 | 14.671 | 35.076 | 26.103 | 0.198 |
| 80 | 13.725 | 34.985 | 26.234 | 0.217 |
| 90 | 13.155 | 34.926 | 26.305 | 0.234 |
| 100 | 13.083 | 34.925 | 26.319 | 0.252 |
| 110 | 12.964 | 34.913 | 26.334 | 0.269 |
| 120 | 12.910 | 34.906 | 26.339 | 0.286 |
| 130 | 12.786 | 34.896 | 26.356 | 0.303 |
| 140 | 12.691 | 34.889 | 26.370 | 0.320 |
| 150 | 12.603 | 34.887 | 26.385 | 0.337 |
| 160 | 12.584 | 34.885 | 26.387 | 0.353 |
| 170 | 12.538 | 34.883 | 26.395 | 0.370 |
| 180 | 12.350 | 34.873 | 26.424 | 0.387 |
| 190 | 12.259 | 34.869 | 26.439 | 0.403 |
| 200 | 12.118 | 34.858 | 26.457 | 0.419 |
| 250 | 11.504 | 34.821 | 26.544 | 0.499 |
| 300 | 10.875 | 34.786 | 26.632 | 0.575 |
| 350 | 9.652 | 34.713 | 26.787 | 0.644 |
| 400 | 8.883 | 34.674 | 26.882 | 0.707 |
| 450 | 8.832 | 34.671 | 26.888 | 0.769 |
| 500 | 7.940 | 34.624 | 26.988 | 0.829 |
| 550 | 7.786 | 34.617 | 27.005 | 0.887 |
| 600 | 7.422 | 34.599 | 27.044 | 0.944 |
| 650 | 6.643 | 34.571 | 27.129 | 0.997 |
| 700 | 6.128 | 34.561 | 27.189 | 1.047 |
| 750 | 5.813 | 34.554 | 27.224 | 1.095 |
| 800 | 5.530 | 34.545 | 27.252 | 1.141 |
| 900 | 4.843 | 34.548 | 27.335 | 1.229 |
| 1000 | 4.400 | 34.555 | 27.390 | 1.310 |
| 1002 | 4.384 | 34.556 | 27.392 | 1.311 |

CAST EP4-88-OC -019 DATE 29 OCT 88 TIME 0331 GMT
LAT 04 58.5S LONG 109 59.6W

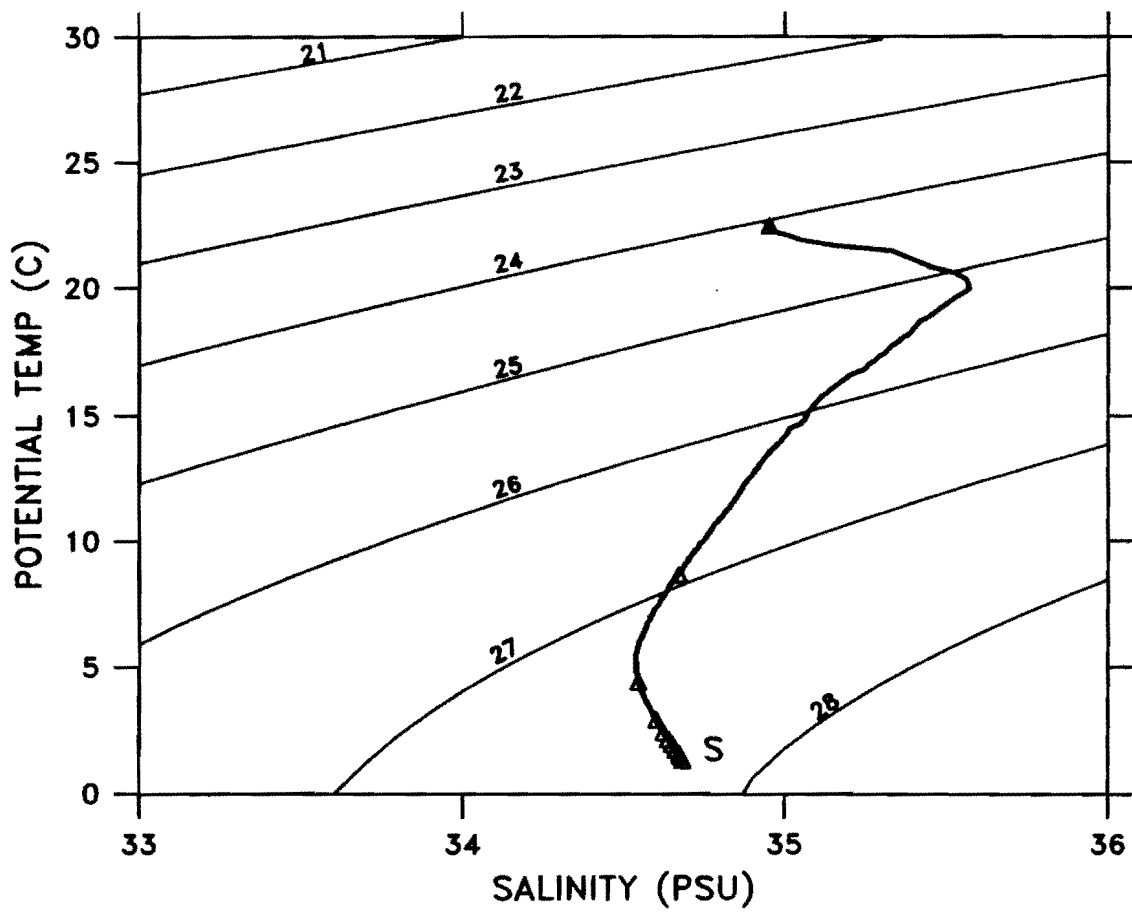


CAST EP4-88-OC -019 DATE 29 OCT 88 TIME 0331 GMT
 LAT 04 58.5S LONG 109 59.6W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 140 T SPD 14 KT VISIBILITY 8
 CLOUD X AMOUNT 4 DRY 22.2 WET 21.1 DEPTH 3415 M

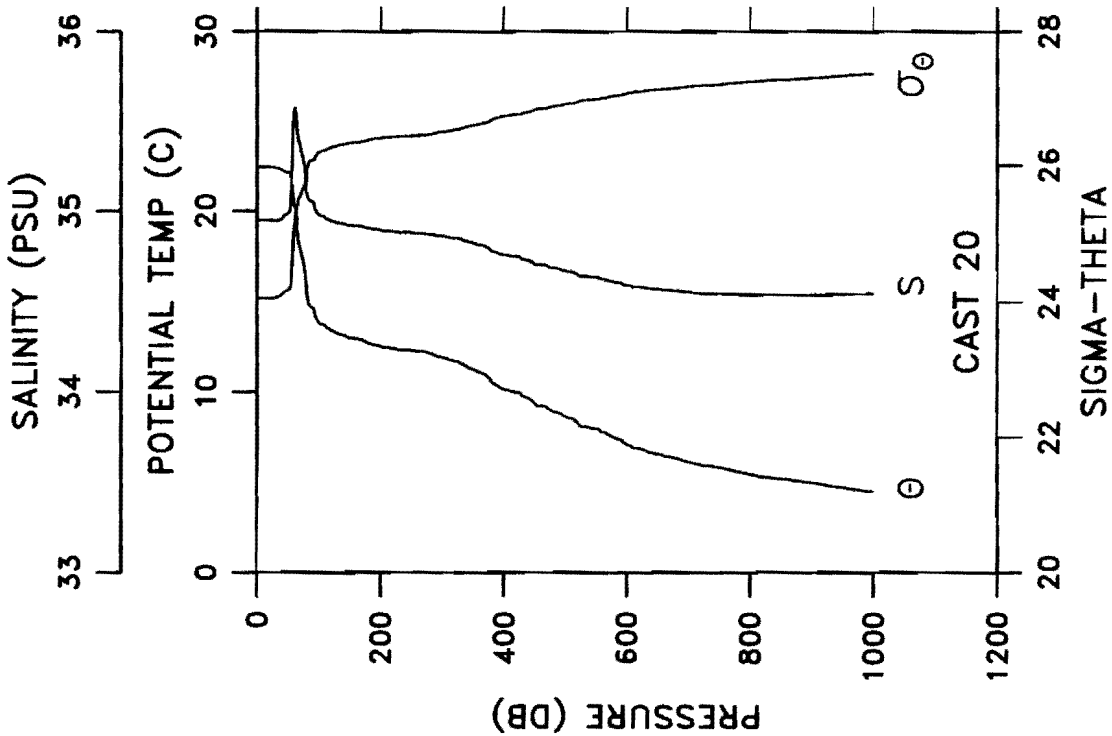


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.447 | 34.902 | 24.019 | 0.000 |
| 10 | 22.462 | 34.955 | 24.055 | 0.039 |
| 20 | 22.462 | 34.955 | 24.055 | 0.077 |
| 30 | 22.388 | 34.952 | 24.074 | 0.116 |
| 40 | 22.137 | 34.985 | 24.169 | 0.154 |
| 50 | 20.841 | 35.436 | 24.871 | 0.190 |
| 60 | 18.800 | 35.451 | 25.418 | 0.218 |
| 70 | 16.864 | 35.258 | 25.746 | 0.242 |
| 80 | 14.642 | 35.053 | 26.092 | 0.263 |
| 90 | 13.746 | 34.976 | 26.222 | 0.282 |
| 100 | 13.589 | 34.961 | 26.243 | 0.300 |
| 110 | 13.398 | 34.947 | 26.271 | 0.318 |
| 120 | 13.226 | 34.940 | 26.301 | 0.335 |
| 130 | 13.141 | 34.935 | 26.315 | 0.353 |
| 140 | 13.006 | 34.927 | 26.336 | 0.370 |
| 150 | 12.915 | 34.922 | 26.350 | 0.387 |
| 160 | 12.838 | 34.919 | 26.363 | 0.404 |
| 170 | 12.755 | 34.914 | 26.376 | 0.421 |
| 180 | 12.728 | 34.912 | 26.379 | 0.438 |
| 190 | 12.550 | 34.899 | 26.405 | 0.455 |
| 200 | 12.479 | 34.892 | 26.413 | 0.471 |
| 250 | 12.291 | 34.883 | 26.443 | 0.554 |
| 300 | 11.841 | 34.862 | 26.513 | 0.635 |
| 300 | 11.841 | 34.862 | 26.513 | 0.635 |

CAST EP4-88-OC -020 DATE 29 OCT 88 TIME 0603 GMT
LAT 05 00.6S LONG 109 57.6W

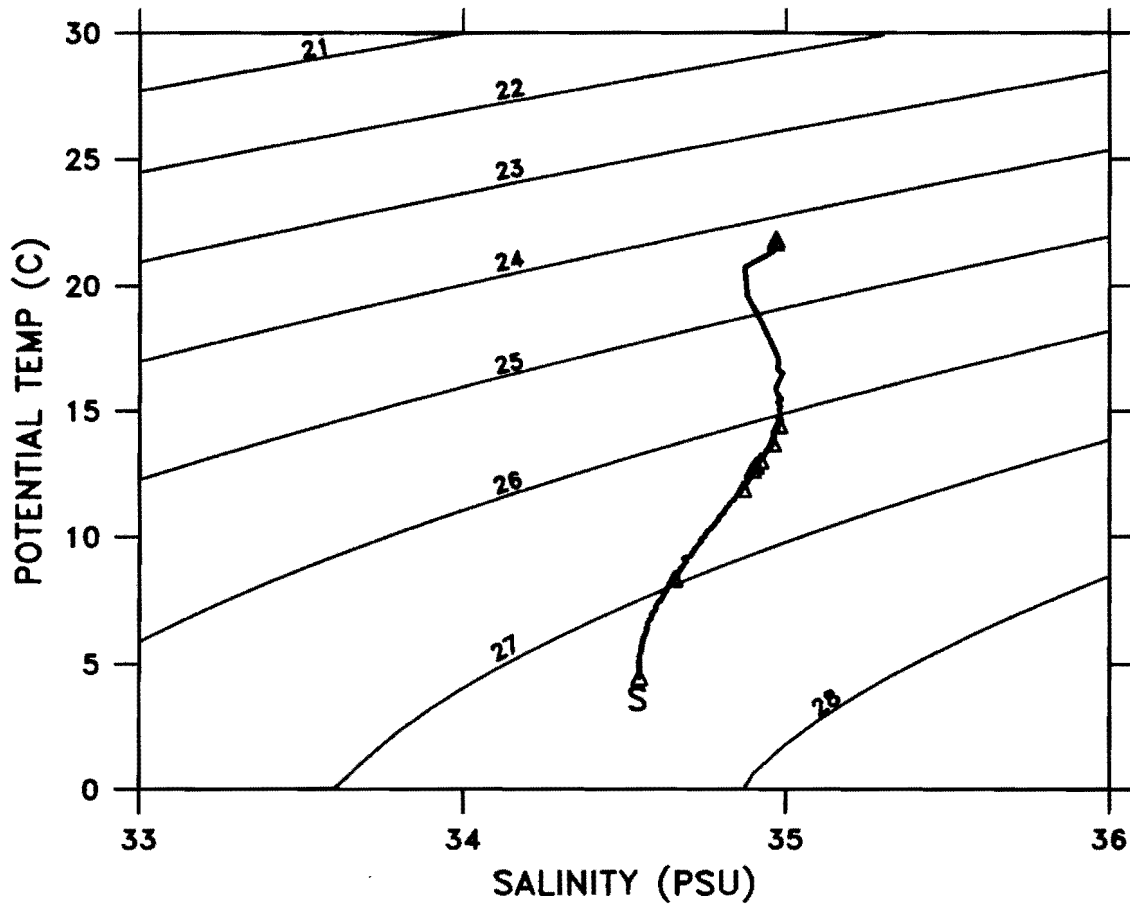


CAST EP4-88-OC -020 DATE 29 OCT 88 TIME 0603 GMT
 LAT 05 00.6S LONG 109 57.6W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 133 T SPD 12 KT VISIBILITY 7
 CLOUD X AMOUNT 7 DRY 21.9 WET 20.6 DEPTH 3391 M

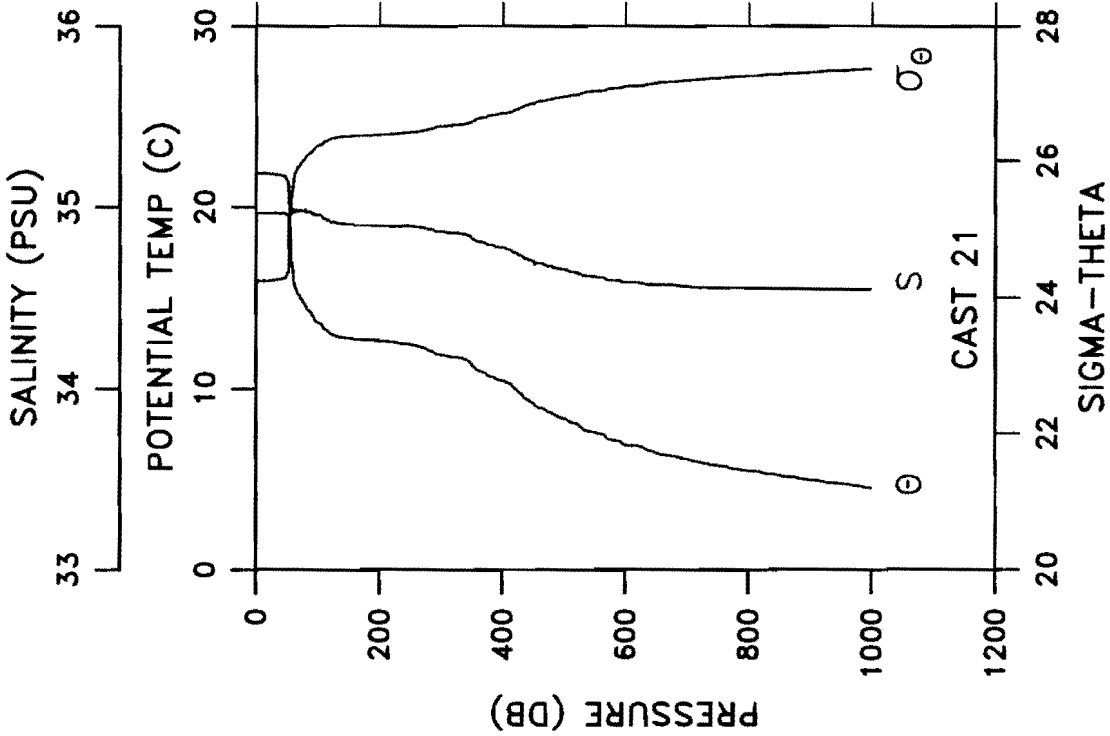


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.439 | 34.949 | 24.057 | 0.000 |
| 10 | 22.444 | 34.949 | 24.055 | 0.038 |
| 20 | 22.437 | 34.948 | 24.057 | 0.077 |
| 30 | 22.403 | 34.946 | 24.065 | 0.116 |
| 40 | 22.274 | 34.959 | 24.111 | 0.154 |
| 50 | 22.137 | 34.988 | 24.172 | 0.192 |
| 60 | 20.316 | 35.563 | 25.109 | 0.226 |
| 70 | 17.928 | 35.356 | 25.563 | 0.253 |
| 80 | 15.724 | 35.111 | 25.897 | 0.276 |
| 90 | 14.662 | 35.049 | 26.084 | 0.296 |
| 100 | 13.876 | 34.978 | 26.197 | 0.315 |
| 110 | 13.683 | 34.964 | 26.226 | 0.333 |
| 120 | 13.395 | 34.944 | 26.270 | 0.351 |
| 130 | 13.247 | 34.935 | 26.293 | 0.368 |
| 140 | 13.143 | 34.930 | 26.311 | 0.386 |
| 150 | 12.996 | 34.921 | 26.333 | 0.403 |
| 160 | 12.947 | 34.919 | 26.341 | 0.420 |
| 170 | 12.886 | 34.915 | 26.350 | 0.438 |
| 180 | 12.720 | 34.905 | 26.376 | 0.455 |
| 190 | 12.586 | 34.899 | 26.397 | 0.471 |
| 200 | 12.521 | 34.894 | 26.407 | 0.488 |
| 250 | 12.298 | 34.879 | 26.438 | 0.571 |
| 300 | 11.910 | 34.861 | 26.499 | 0.653 |
| 350 | 11.245 | 34.822 | 26.593 | 0.731 |
| 400 | 10.151 | 34.759 | 26.738 | 0.804 |
| 450 | 9.388 | 34.711 | 26.829 | 0.872 |
| 500 | 8.661 | 34.672 | 26.915 | 0.936 |
| 550 | 7.974 | 34.635 | 26.991 | 0.995 |
| 600 | 7.088 | 34.591 | 27.084 | 1.051 |
| 650 | 6.552 | 34.571 | 27.142 | 1.103 |
| 700 | 6.120 | 34.555 | 27.186 | 1.153 |
| 750 | 5.624 | 34.548 | 27.218 | 1.201 |
| 800 | 5.430 | 34.539 | 27.259 | 1.247 |
| 900 | 4.977 | 34.540 | 27.313 | 1.336 |
| 1000 | 4.463 | 34.545 | 27.375 | 1.418 |
| 1500 | 2.895 | 34.603 | 27.578 | 1.764 |
| 2000 | 2.155 | 34.640 | 27.671 | 2.044 |
| 2500 | 1.744 | 34.663 | 27.721 | 2.296 |
| 3000 | 1.489 | 34.677 | 27.752 | 2.530 |
| 3247 | 1.341 | 34.684 | 27.768 | 2.640 |

CAST EP4-88-OC -021 DATE 29 OCT 88 TIME 1206 GMT
LAT 04 00.2S LONG 110 04.4W

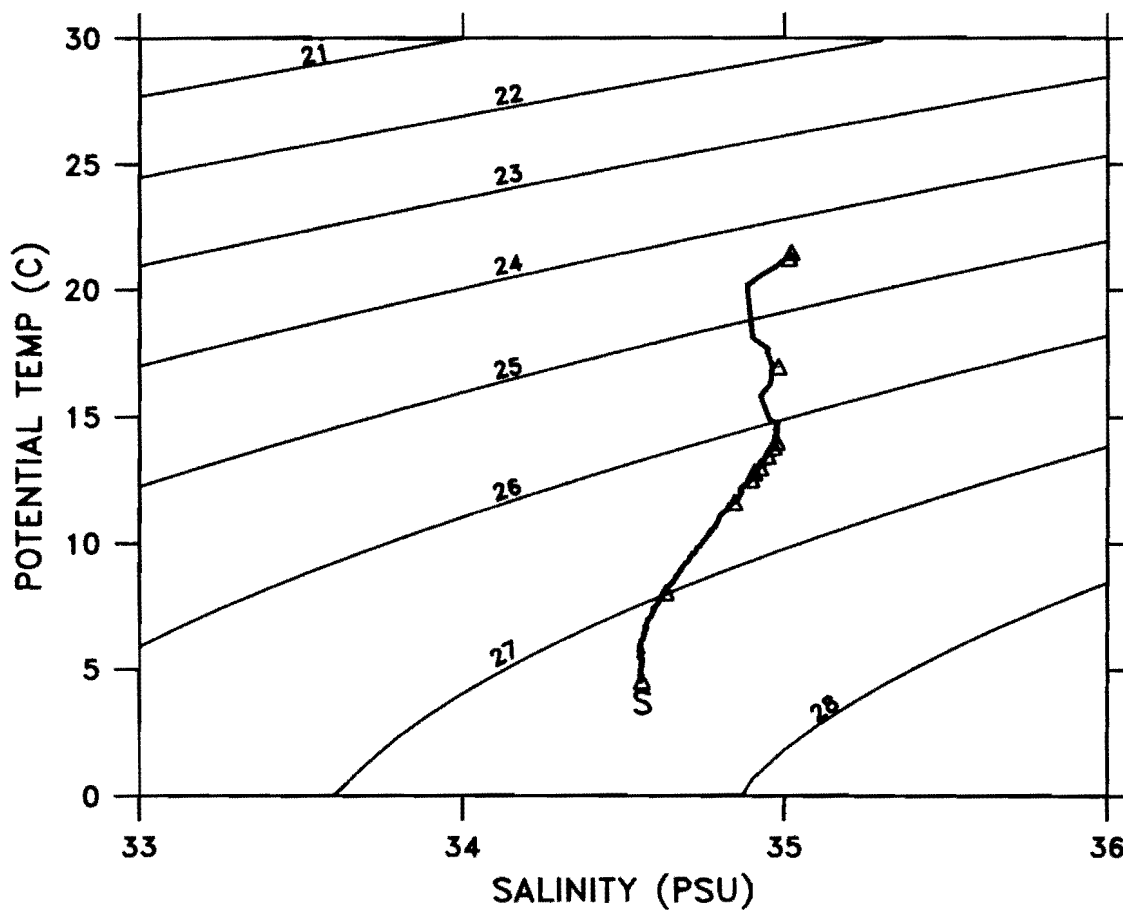


CAST EP4-88-0C -021 DATE 29 OCT 88 TIME 1206 GMT
 LAT 04 00.2S LONG 110 04.4W WEATHER 2 SEA STATE 3
 BAROMETER 13 WIND DIR 090 T SPD 07 KT VISIBILITY 8
 CLOUD 5 AMOUNT 7 DRY 21.9 WET 20.9 DEPTH 3633 M

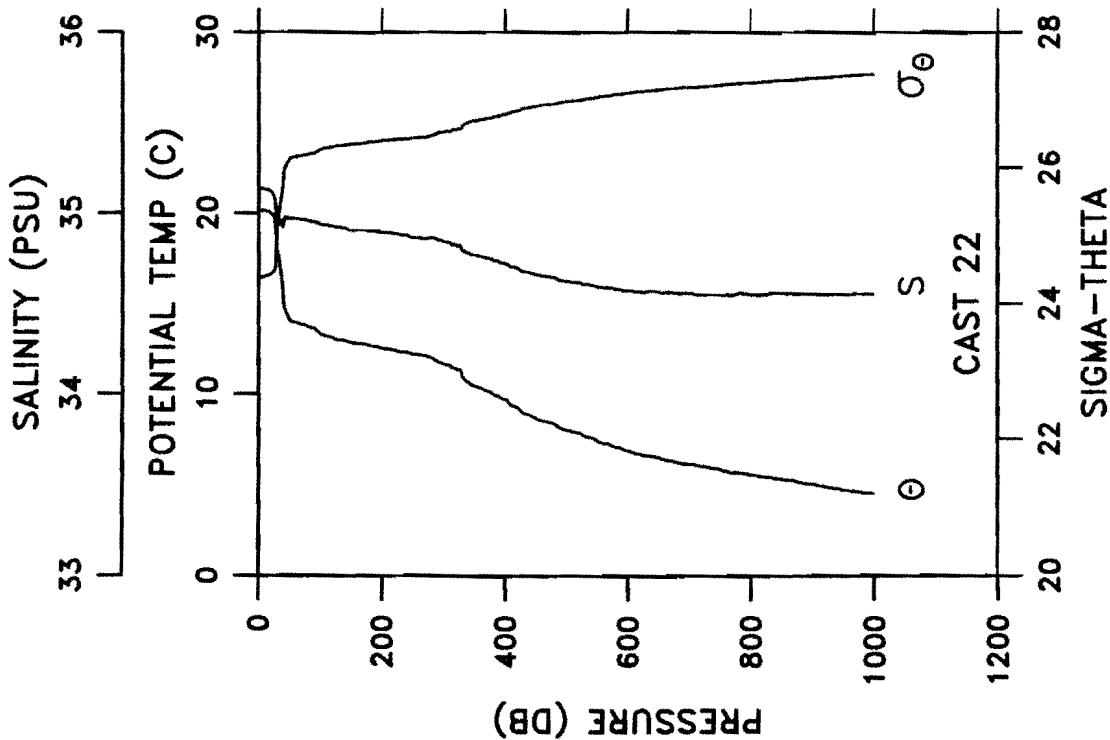


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.821 | 34.966 | 24.243 | 0.000 |
| 10 | 21.822 | 34.967 | 24.244 | 0.037 |
| 20 | 21.814 | 34.966 | 24.246 | 0.073 |
| 30 | 21.767 | 34.967 | 24.259 | 0.110 |
| 40 | 21.727 | 34.963 | 24.267 | 0.147 |
| 50 | 21.461 | 34.964 | 24.342 | 0.183 |
| 60 | 16.510 | 34.990 | 25.623 | 0.213 |
| 70 | 15.163 | 34.984 | 25.924 | 0.235 |
| 80 | 14.619 | 34.987 | 26.046 | 0.255 |
| 90 | 14.192 | 34.962 | 26.118 | 0.274 |
| 100 | 13.675 | 34.957 | 26.223 | 0.293 |
| 110 | 13.323 | 34.939 | 26.281 | 0.311 |
| 120 | 13.082 | 34.921 | 26.316 | 0.328 |
| 130 | 12.926 | 34.913 | 26.341 | 0.346 |
| 140 | 12.845 | 34.909 | 26.354 | 0.363 |
| 150 | 12.805 | 34.908 | 26.361 | 0.380 |
| 160 | 12.739 | 34.903 | 26.370 | 0.396 |
| 170 | 12.730 | 34.903 | 26.372 | 0.413 |
| 180 | 12.712 | 34.901 | 26.374 | 0.430 |
| 190 | 12.687 | 34.900 | 26.378 | 0.447 |
| 200 | 12.651 | 34.898 | 26.384 | 0.464 |
| 250 | 12.463 | 34.897 | 26.420 | 0.548 |
| 300 | 11.884 | 34.866 | 26.508 | 0.630 |
| 350 | 11.361 | 34.829 | 26.577 | 0.709 |
| 400 | 10.447 | 34.778 | 26.702 | 0.782 |
| 450 | 9.223 | 34.704 | 26.851 | 0.850 |
| 500 | 8.335 | 34.656 | 26.953 | 0.912 |
| 550 | 7.573 | 34.617 | 27.036 | 0.969 |
| 600 | 6.869 | 34.584 | 27.109 | 1.023 |
| 650 | 6.426 | 34.568 | 27.156 | 1.075 |
| 700 | 6.075 | 34.562 | 27.197 | 1.124 |
| 750 | 5.718 | 34.553 | 27.235 | 1.171 |
| 800 | 5.419 | 34.550 | 27.269 | 1.217 |
| 900 | 4.920 | 34.546 | 27.325 | 1.304 |
| 1000 | 4.465 | 34.545 | 27.375 | 1.387 |
| 1001 | 4.463 | 34.545 | 27.375 | 1.388 |

CAST EP4-88-OC -022 DATE 29 OCT 88 TIME 1738 GMT
LAT 02 59.9S LONG 110 00.2W

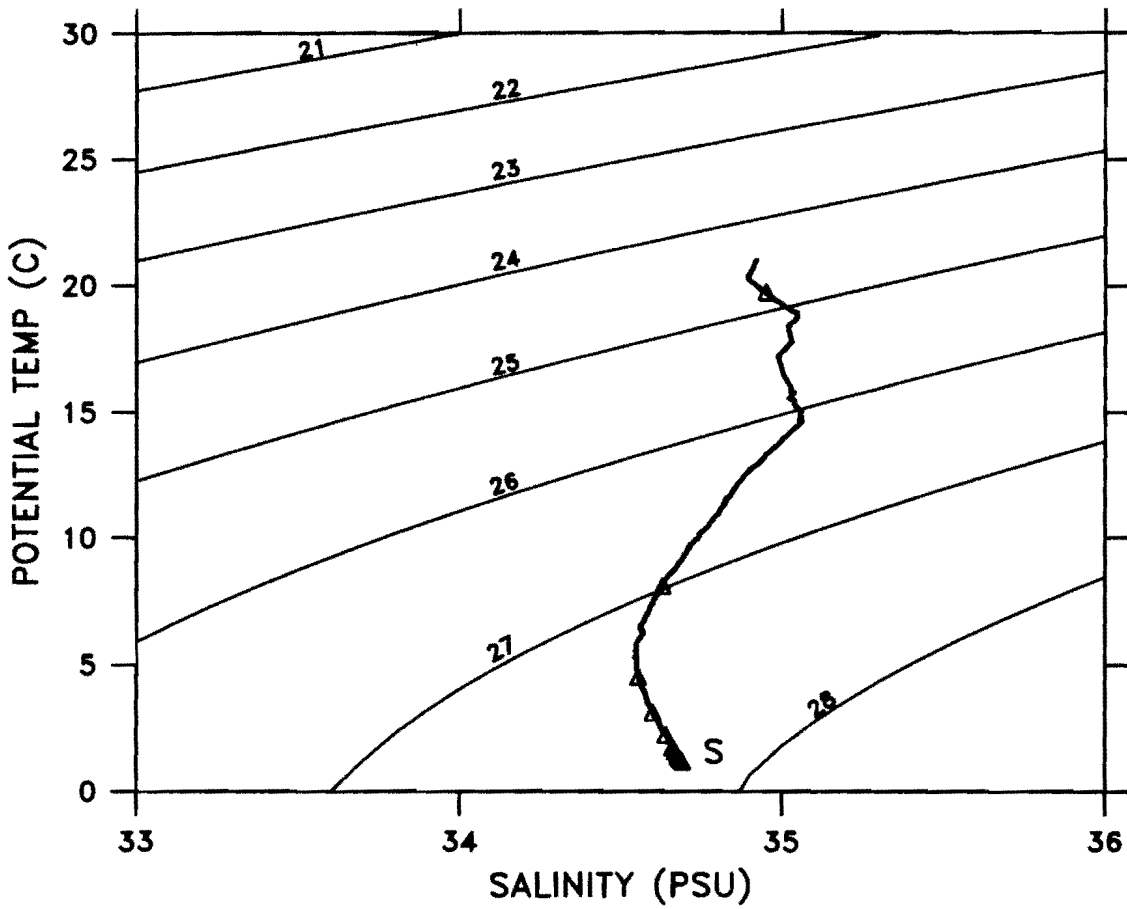


CAST EP4-88-OC -022 DATE 29 OCT 88 TIME 1738 GMT
 LAT 02 59.9S LONG 110 00.2W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DHR 125 T SPD 12 KT VISIBILITY 8
 CLOUD 6 AMOUNT 7 DRY 22.3 WET 20.1 DEPTH 3773 M

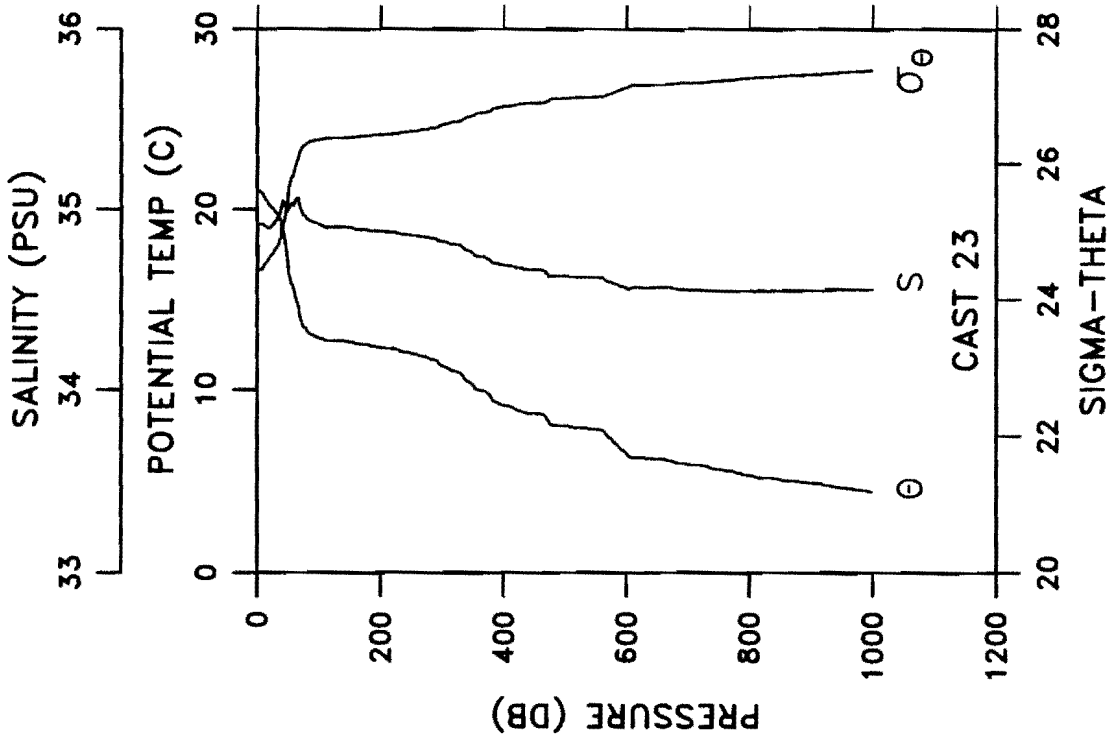


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.418 | 35.015 | 24.392 | 0.000 |
| 10 | 21.338 | 35.014 | 24.414 | 0.035 |
| 20 | 21.200 | 35.001 | 24.442 | 0.070 |
| 30 | 18.084 | 34.901 | 25.177 | 0.104 |
| 40 | 15.348 | 34.940 | 25.849 | 0.129 |
| 50 | 14.127 | 34.972 | 26.140 | 0.148 |
| 60 | 13.991 | 34.971 | 26.167 | 0.167 |
| 70 | 13.866 | 34.964 | 26.188 | 0.186 |
| 80 | 13.759 | 34.957 | 26.205 | 0.204 |
| 90 | 13.664 | 34.954 | 26.222 | 0.222 |
| 100 | 13.543 | 34.937 | 26.275 | 0.240 |
| 110 | 13.223 | 34.935 | 26.298 | 0.258 |
| 120 | 13.135 | 34.928 | 26.311 | 0.275 |
| 130 | 13.018 | 34.922 | 26.329 | 0.292 |
| 140 | 12.963 | 34.917 | 26.337 | 0.309 |
| 150 | 12.857 | 34.906 | 26.350 | 0.327 |
| 160 | 12.821 | 34.908 | 26.358 | 0.344 |
| 170 | 12.785 | 34.908 | 26.365 | 0.361 |
| 180 | 12.687 | 34.902 | 26.380 | 0.378 |
| 190 | 12.648 | 34.900 | 26.386 | 0.394 |
| 200 | 12.536 | 34.894 | 26.404 | 0.411 |
| 250 | 12.224 | 34.865 | 26.442 | 0.494 |
| 300 | 11.682 | 34.846 | 26.531 | 0.575 |
| 350 | 10.456 | 34.772 | 26.696 | 0.650 |
| 400 | 9.707 | 34.726 | 26.788 | 0.720 |
| 450 | 8.684 | 34.664 | 26.905 | 0.783 |
| 500 | 8.015 | 34.626 | 26.978 | 0.843 |
| 550 | 7.435 | 34.596 | 27.040 | 0.900 |
| 600 | 6.874 | 34.576 | 27.102 | 0.954 |
| 650 | 6.507 | 34.569 | 27.146 | 1.005 |
| 700 | 6.158 | 34.561 | 27.186 | 1.055 |
| 750 | 5.874 | 34.555 | 27.217 | 1.103 |
| 800 | 5.569 | 34.552 | 27.252 | 1.149 |
| 900 | 5.062 | 34.557 | 27.317 | 1.238 |
| 1000 | 4.556 | 34.555 | 27.373 | 1.321 |
| 1004 | 4.546 | 34.555 | 27.374 | 1.324 |

CAST EP4-88-OC -023 DATE 30 OCT 88 TIME 0010 GMT
LAT 02 01.6S LONG 110 00.2W

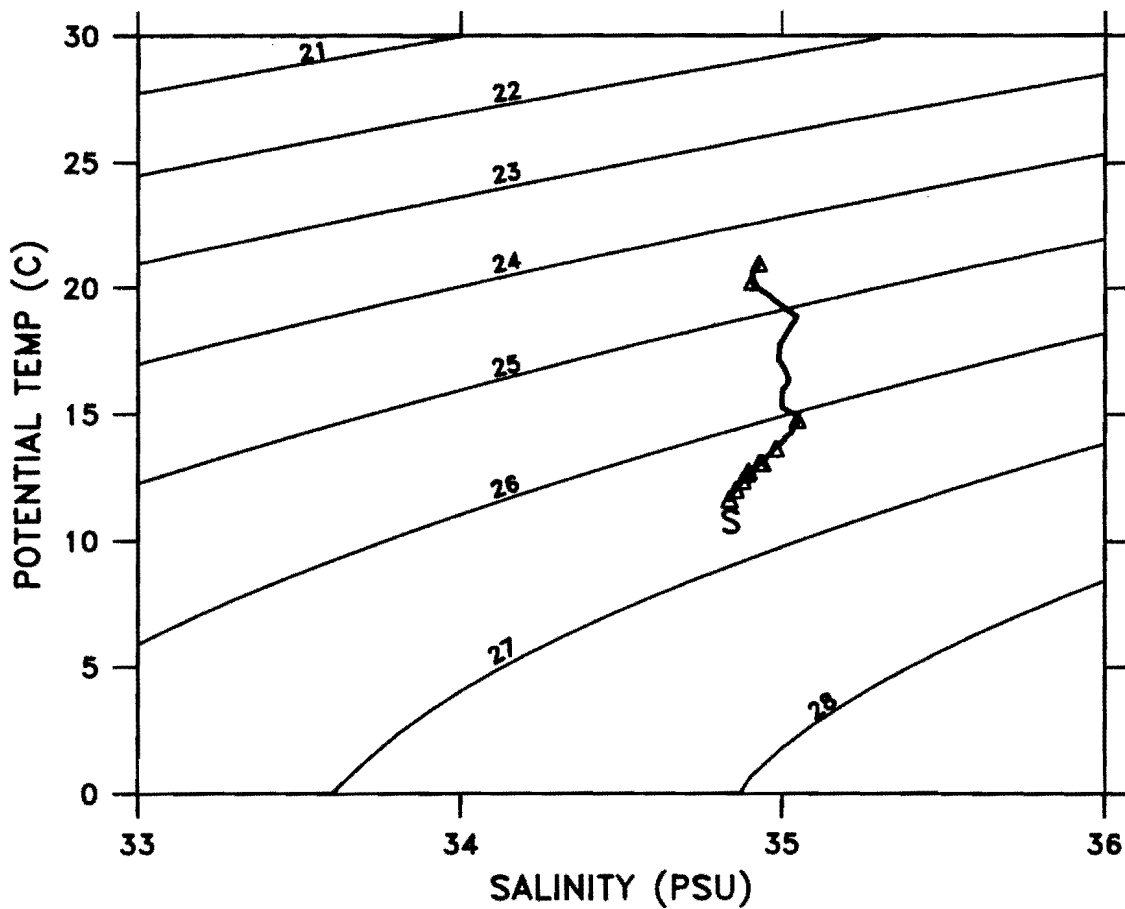


CAST EP4-88-OC -023 DATE 30 OCT 88 TIME 0010 GMT
 LAT 02 01.6S LONG 110 00.2W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 120 T SPD 08 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 21.5 WET 19.9 DEPTH 3898 M

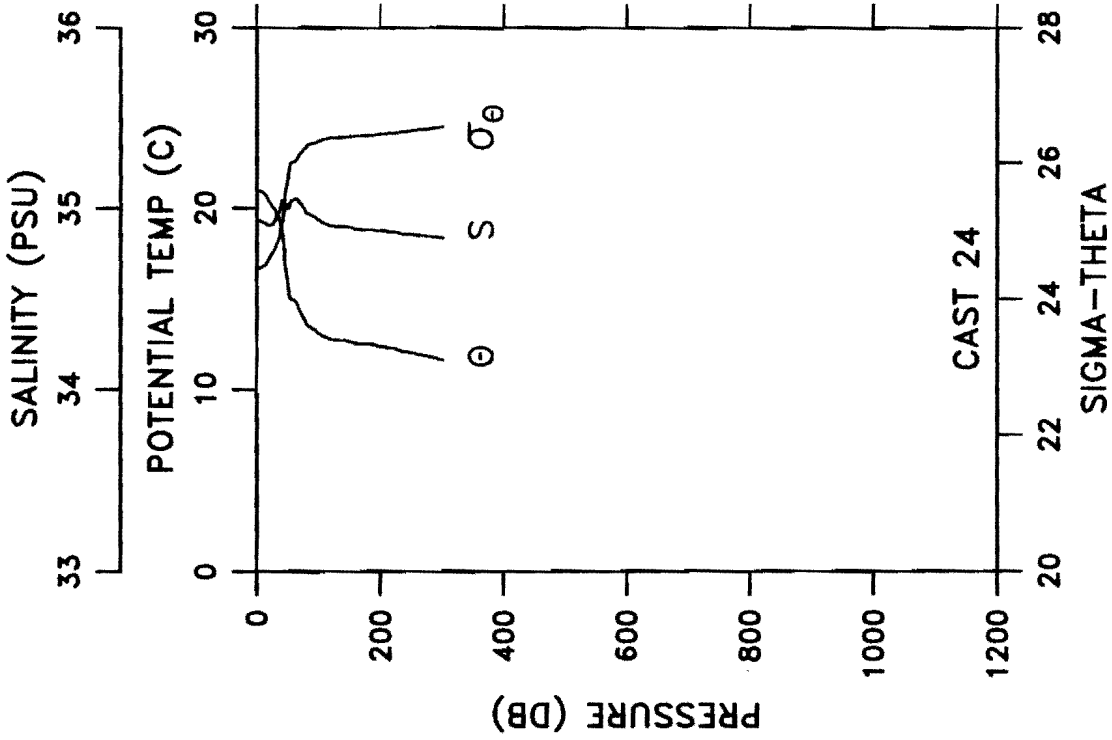


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.988 | 34.922 | 24.439 | 0.000 |
| 10 | 20.783 | 34.913 | 24.488 | 0.035 |
| 20 | 20.225 | 34.899 | 24.626 | 0.069 |
| 30 | 19.840 | 34.938 | 24.758 | 0.101 |
| 40 | 19.020 | 35.030 | 25.040 | 0.132 |
| 50 | 16.965 | 34.993 | 25.519 | 0.159 |
| 60 | 15.474 | 35.038 | 25.897 | 0.182 |
| 70 | 13.970 | 35.005 | 26.198 | 0.201 |
| 80 | 13.304 | 34.949 | 26.293 | 0.219 |
| 90 | 13.024 | 34.933 | 26.337 | 0.236 |
| 100 | 12.874 | 34.918 | 26.355 | 0.253 |
| 110 | 12.714 | 34.898 | 26.372 | 0.270 |
| 120 | 12.691 | 34.902 | 26.379 | 0.287 |
| 130 | 12.690 | 34.902 | 26.380 | 0.303 |
| 140 | 12.686 | 34.903 | 26.381 | 0.320 |
| 150 | 12.637 | 34.899 | 26.388 | 0.337 |
| 160 | 12.531 | 34.887 | 26.399 | 0.354 |
| 170 | 12.498 | 34.886 | 26.404 | 0.370 |
| 180 | 12.478 | 34.883 | 26.407 | 0.387 |
| 190 | 12.382 | 34.879 | 26.422 | 0.403 |
| 200 | 12.337 | 34.878 | 26.430 | 0.420 |
| 250 | 12.002 | 34.857 | 26.478 | 0.501 |
| 300 | 11.304 | 34.823 | 26.583 | 0.580 |
| 350 | 10.289 | 34.760 | 26.715 | 0.654 |
| 400 | 9.187 | 34.693 | 26.848 | 0.721 |
| 450 | 8.716 | 34.668 | 26.903 | 0.783 |
| 500 | 8.073 | 34.633 | 26.975 | 0.843 |
| 550 | 7.886 | 34.625 | 26.996 | 0.901 |
| 600 | 6.566 | 34.564 | 27.135 | 0.956 |
| 650 | 6.262 | 34.569 | 27.179 | 1.005 |
| 700 | 5.968 | 34.555 | 27.206 | 1.053 |
| 750 | 5.686 | 34.551 | 27.237 | 1.100 |
| 800 | 5.343 | 34.550 | 27.278 | 1.146 |
| 900 | 4.921 | 34.552 | 27.329 | 1.232 |
| 1000 | 4.430 | 34.559 | 27.389 | 1.314 |
| 1500 | 3.000 | 34.607 | 27.571 | 1.662 |
| 2000 | 2.243 | 34.641 | 27.664 | 1.946 |
| 2500 | 1.746 | 34.661 | 27.720 | 2.198 |
| 3000 | 1.407 | 34.677 | 27.757 | 2.430 |
| 3500 | 1.244 | 34.687 | 27.778 | 2.652 |
| 3799 | 1.161 | 34.693 | 27.788 | 2.782 |

CAST EP4-88-OC -024 DATE 30 OCT 88 TIME 0306 GMT
LAT 02 02.7S LONG 109 58.6W

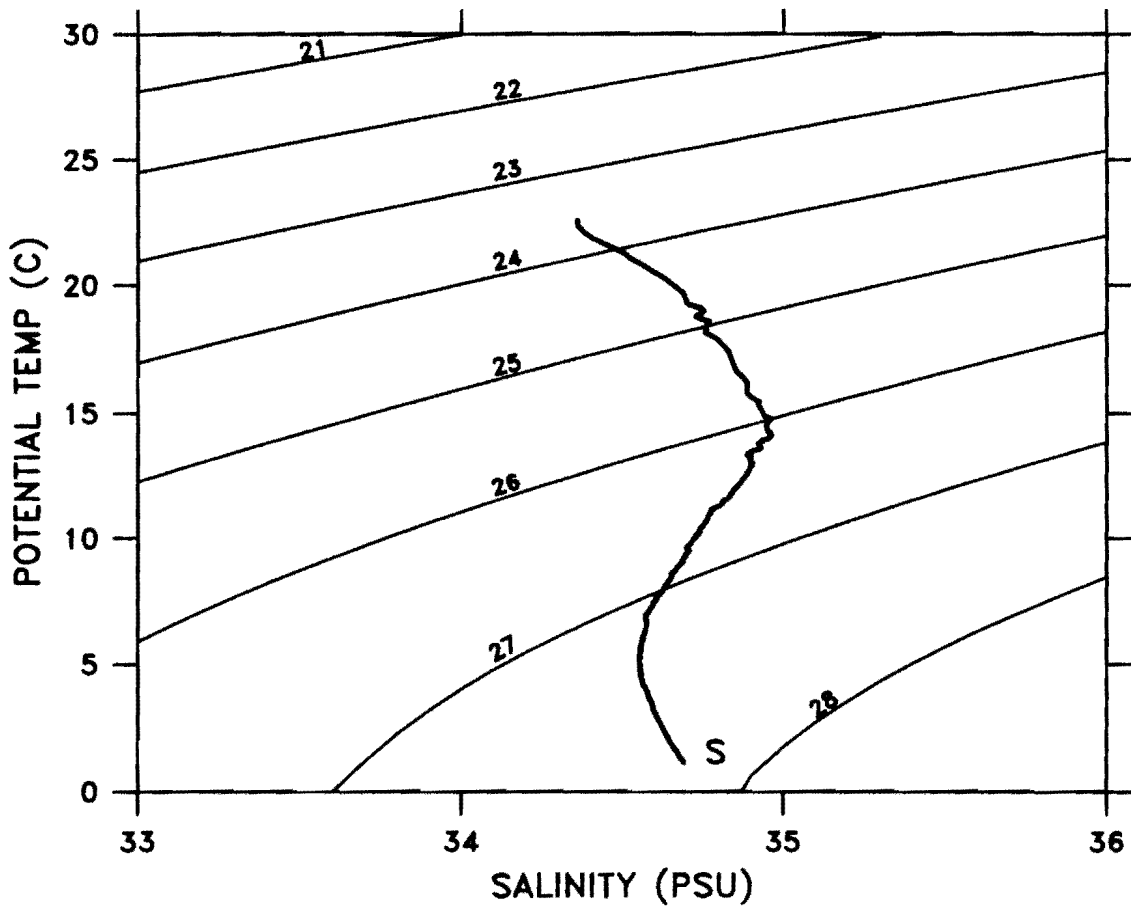


CAST EP4-88-OC -024 DATE 30 OCT 88 TIME 0306 GMT
 LAT 02 02.75 LONG 109 58.6W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 110 T SPD 08 KT VISIBILITY 8
 CLOUD X AMOUNT 4 DRY 21.5 WET 20.2 DEPTH 3943 M

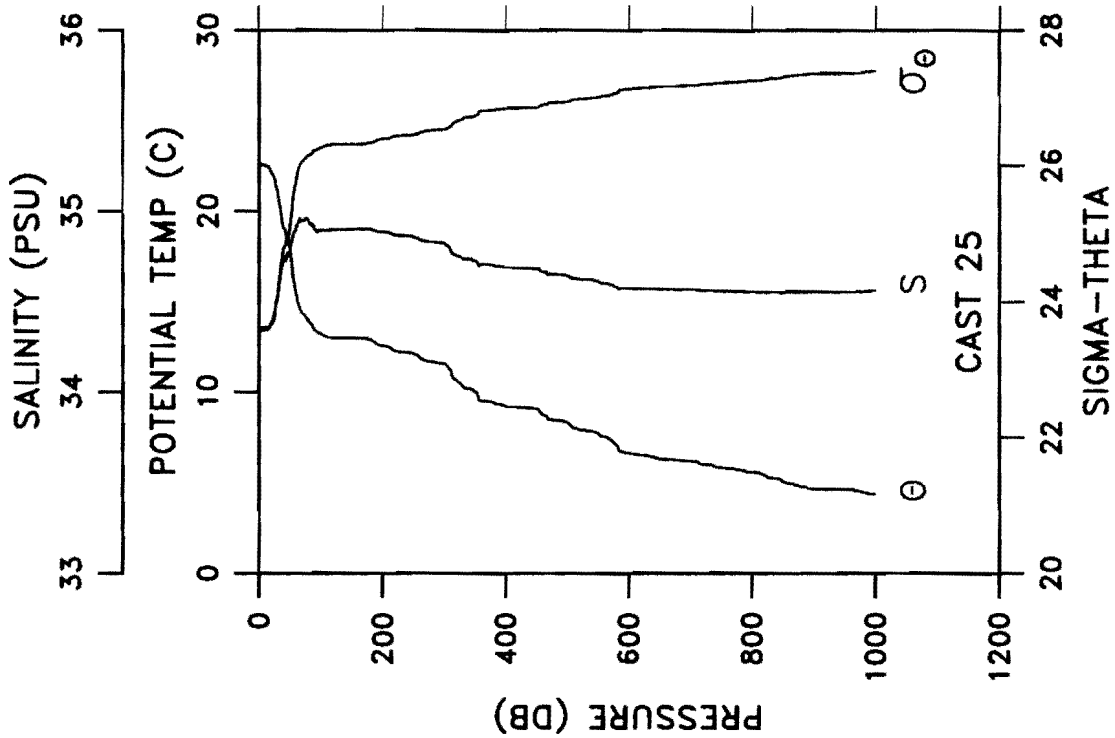


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.972 | 34.932 | 24.451 | 0.000 |
| 10 | 20.856 | 34.923 | 24.475 | 0.035 |
| 20 | 20.341 | 34.905 | 24.600 | 0.069 |
| 30 | 19.889 | 34.933 | 24.741 | 0.101 |
| 40 | 18.864 | 35.044 | 25.081 | 0.132 |
| 50 | 15.954 | 35.001 | 25.759 | 0.158 |
| 60 | 14.937 | 35.047 | 26.023 | 0.178 |
| 70 | 14.298 | 35.029 | 26.148 | 0.198 |
| 80 | 13.626 | 34.976 | 26.247 | 0.216 |
| 90 | 13.370 | 34.956 | 26.285 | 0.234 |
| 100 | 13.089 | 34.935 | 26.325 | 0.251 |
| 110 | 12.882 | 34.915 | 26.351 | 0.268 |
| 120 | 12.748 | 34.900 | 26.366 | 0.285 |
| 130 | 12.707 | 34.900 | 26.374 | 0.302 |
| 140 | 12.691 | 34.899 | 26.377 | 0.319 |
| 150 | 12.638 | 34.895 | 26.384 | 0.335 |
| 160 | 12.521 | 34.883 | 26.398 | 0.352 |
| 170 | 12.495 | 34.881 | 26.401 | 0.369 |
| 180 | 12.479 | 34.880 | 26.404 | 0.385 |
| 190 | 12.463 | 34.879 | 26.406 | 0.402 |
| 200 | 12.368 | 34.875 | 26.422 | 0.418 |
| 250 | 12.017 | 34.854 | 26.473 | 0.500 |
| 300 | 11.644 | 34.836 | 26.530 | 0.580 |
| 302 | 11.626 | 34.835 | 26.532 | 0.583 |

CAST EP4-88-OC -025 DATE 31 OCT 88 TIME 0218 GMT
LAT 00 59.1N LONG 113 01.2W

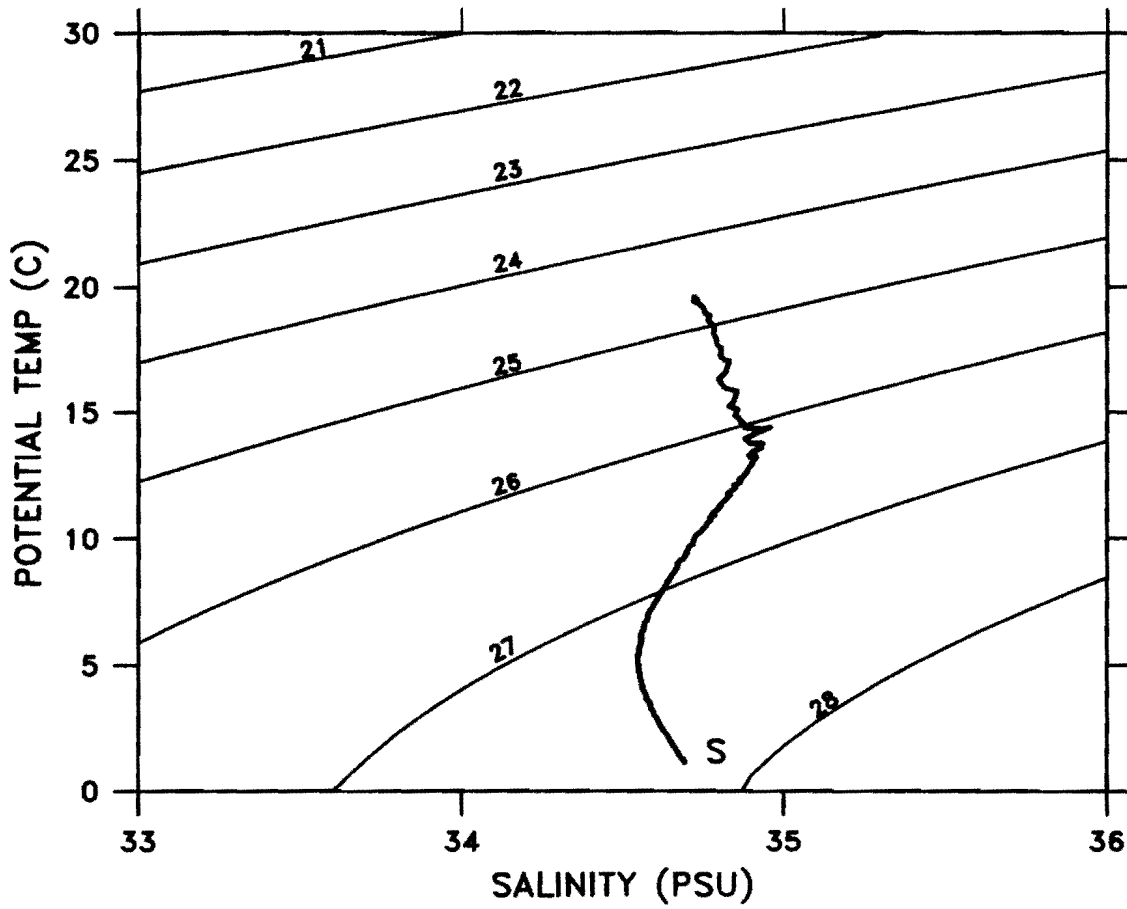


CAST EP4-88-OC -025 DATE 31 OCT 88 TIME 0218 GMT
 LAT 00 59.1N LONG 113 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 120 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 21.5 WET 18.9 DEPTH 3910 M

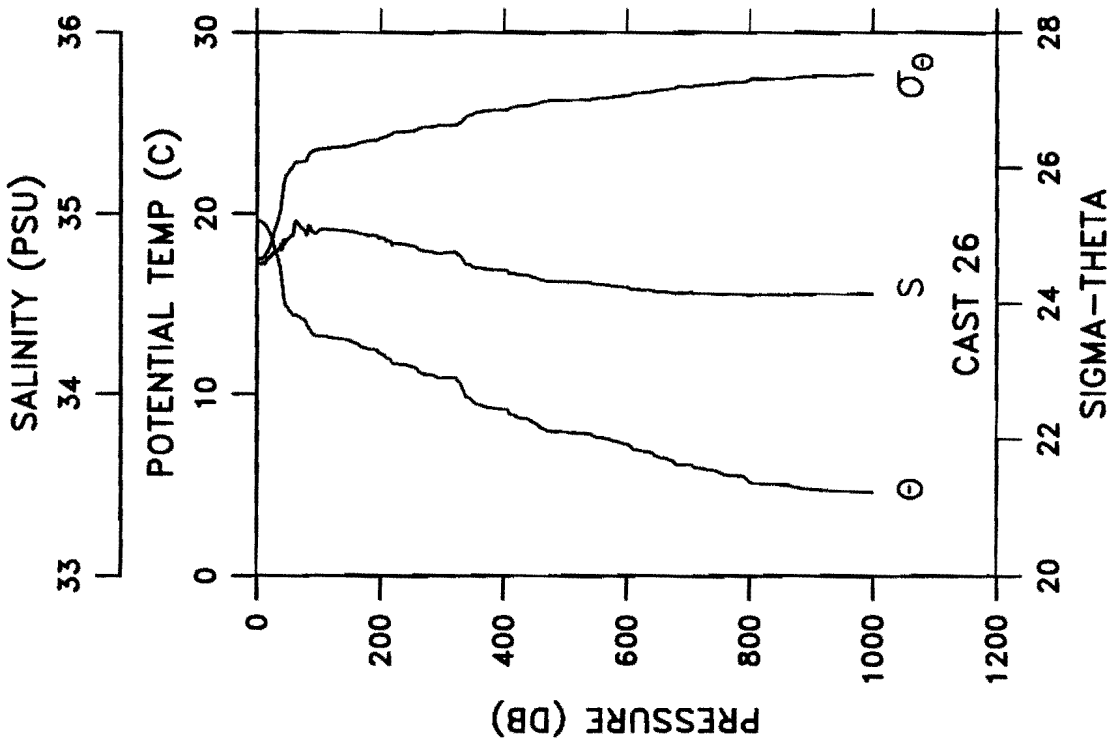


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.552 | 34.360 | 23.578 | 0.000 |
| 10 | 22.503 | 34.362 | 23.593 | 0.043 |
| 20 | 22.112 | 34.378 | 23.716 | 0.086 |
| 30 | 21.066 | 34.522 | 24.113 | 0.126 |
| 40 | 19.105 | 34.744 | 24.800 | 0.160 |
| 50 | 17.913 | 34.793 | 25.136 | 0.191 |
| 60 | 15.450 | 34.924 | 25.815 | 0.215 |
| 70 | 14.382 | 34.949 | 26.067 | 0.236 |
| 80 | 13.972 | 34.945 | 26.151 | 0.255 |
| 90 | 13.479 | 34.902 | 26.221 | 0.273 |
| 100 | 13.263 | 34.894 | 26.258 | 0.291 |
| 110 | 13.074 | 34.897 | 26.299 | 0.309 |
| 120 | 13.025 | 34.901 | 26.312 | 0.326 |
| 130 | 13.019 | 34.902 | 26.314 | 0.344 |
| 140 | 13.016 | 34.900 | 26.313 | 0.361 |
| 150 | 13.015 | 34.903 | 26.315 | 0.378 |
| 160 | 13.008 | 34.904 | 26.317 | 0.396 |
| 170 | 12.980 | 34.904 | 26.323 | 0.413 |
| 180 | 12.921 | 34.903 | 26.334 | 0.431 |
| 190 | 12.707 | 34.893 | 26.369 | 0.448 |
| 200 | 12.576 | 34.889 | 26.392 | 0.465 |
| 250 | 12.154 | 34.861 | 26.453 | 0.547 |
| 300 | 11.575 | 34.826 | 26.535 | 0.627 |
| 350 | 10.033 | 34.729 | 26.735 | 0.689 |
| 400 | 9.212 | 34.692 | 26.843 | 0.765 |
| 450 | 9.084 | 34.685 | 26.858 | 0.829 |
| 500 | 8.334 | 34.646 | 26.946 | 0.890 |
| 550 | 7.738 | 34.614 | 27.010 | 0.948 |
| 600 | 6.636 | 34.576 | 27.135 | 1.001 |
| 650 | 6.332 | 34.572 | 27.172 | 1.052 |
| 700 | 6.213 | 34.570 | 27.186 | 1.100 |
| 750 | 5.848 | 34.561 | 27.225 | 1.148 |
| 800 | 5.584 | 34.558 | 27.256 | 1.195 |
| 900 | 4.668 | 34.557 | 27.362 | 1.281 |
| 1000 | 4.376 | 34.562 | 27.398 | 1.361 |
| 1500 | 2.935 | 34.607 | 27.578 | 1.706 |
| 2000 | 2.142 | 34.643 | 27.674 | 1.981 |
| 2500 | 1.650 | 34.667 | 27.732 | 2.226 |
| 3000 | 1.464 | 34.675 | 27.752 | 2.456 |
| 3500 | 1.244 | 34.688 | 27.778 | 2.681 |
| 3784 | 1.161 | 34.691 | 27.786 | 2.805 |

CAST EP4-88-OC -026 DATE 31 OCT 88 TIME 1354 GMT
LAT 00 00.1S LONG 114 58.6W

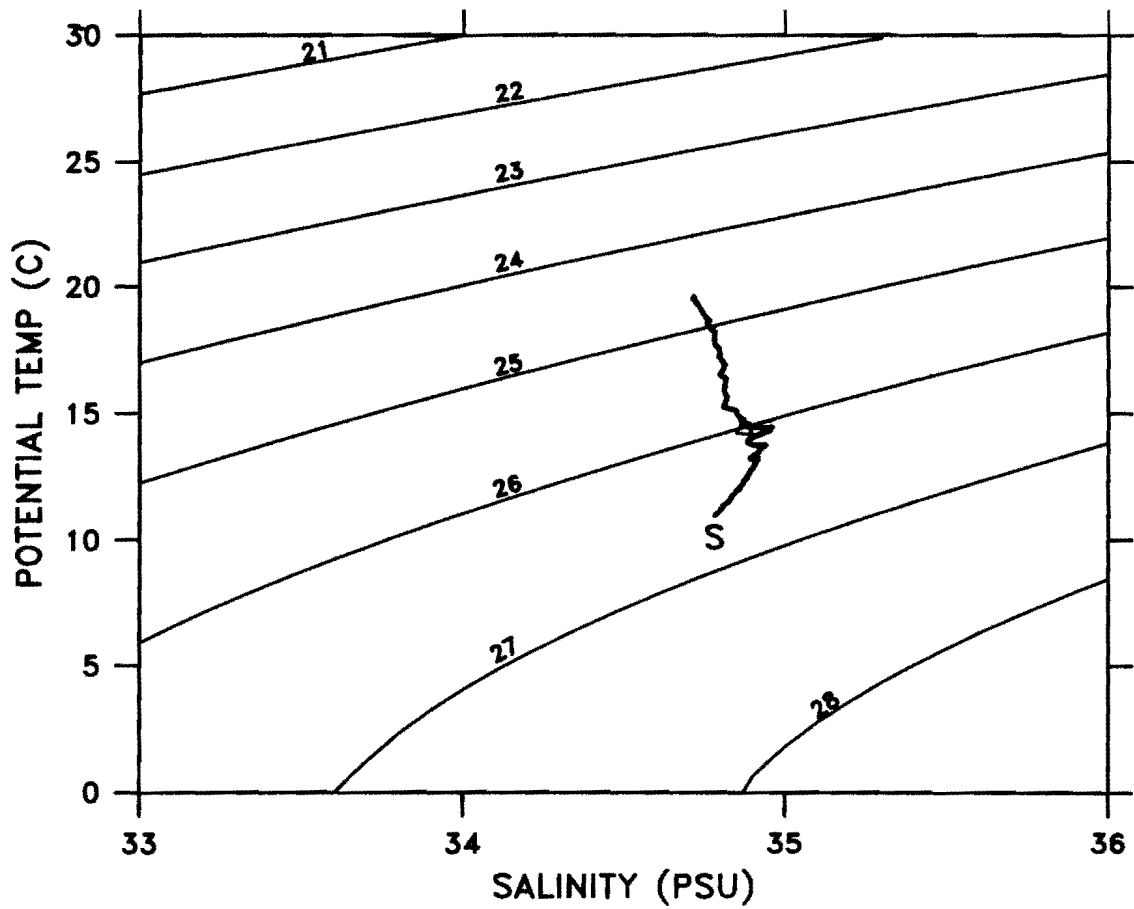


CAST EP4-88-OC -026 DATE 31 OCT 88 TIME 1354 GMT
 LAT 00 00.1S LONG 114 58.6W WEATHER 0 SEA STATE 3
 BAROMETER 13 WIND DIR 130 T SPD 12 KT VISIBILITY 8
 CLOUD 0 AMOUNT 1 DRY 20.2 WET 19.5 DEPTH 4019 M

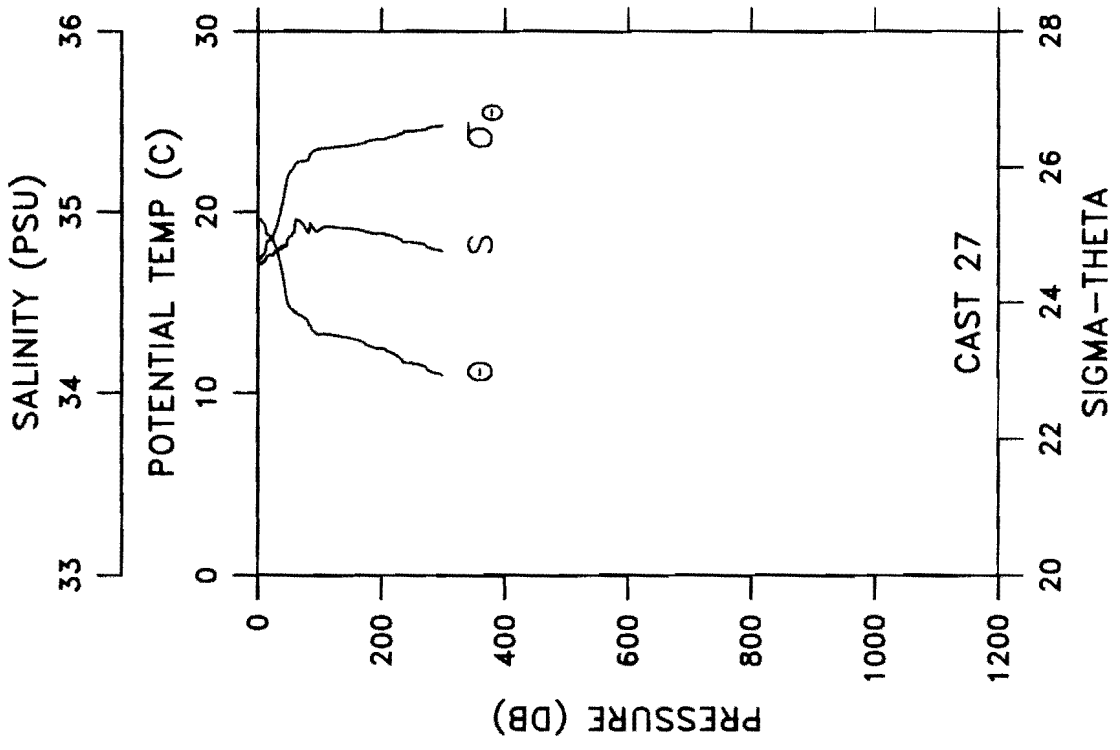


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 19.580 | 34.723 | 24.661 | 0.000 |
| 10 | 19.481 | 34.731 | 24.693 | 0.033 |
| 20 | 18.989 | 34.752 | 24.833 | 0.065 |
| 30 | 17.941 | 34.789 | 25.126 | 0.094 |
| 40 | 16.296 | 34.797 | 25.525 | 0.121 |
| 50 | 14.763 | 34.862 | 25.918 | 0.143 |
| 60 | 14.338 | 34.938 | 26.068 | 0.164 |
| 70 | 14.220 | 34.927 | 26.085 | 0.183 |
| 80 | 13.943 | 34.879 | 26.106 | 0.202 |
| 90 | 13.343 | 34.900 | 26.246 | 0.221 |
| 100 | 13.241 | 34.907 | 26.272 | 0.238 |
| 110 | 13.223 | 34.915 | 26.282 | 0.256 |
| 120 | 13.149 | 34.911 | 26.295 | 0.274 |
| 130 | 13.108 | 34.908 | 26.301 | 0.291 |
| 140 | 13.060 | 34.907 | 26.309 | 0.309 |
| 150 | 12.984 | 34.901 | 26.320 | 0.326 |
| 160 | 12.837 | 34.897 | 26.347 | 0.343 |
| 170 | 12.626 | 34.886 | 26.380 | 0.360 |
| 180 | 12.520 | 34.876 | 26.393 | 0.377 |
| 190 | 12.483 | 34.880 | 26.403 | 0.394 |
| 200 | 12.284 | 34.869 | 26.433 | 0.410 |
| 250 | 11.540 | 34.822 | 26.539 | 0.489 |
| 300 | 10.919 | 34.781 | 26.620 | 0.565 |
| 350 | 9.606 | 34.703 | 26.787 | 0.636 |
| 400 | 9.160 | 34.686 | 26.847 | 0.701 |
| 450 | 8.389 | 34.646 | 26.937 | 0.763 |
| 500 | 7.894 | 34.622 | 26.993 | 0.820 |
| 550 | 7.611 | 34.608 | 27.023 | 0.878 |
| 600 | 7.211 | 34.590 | 27.066 | 0.933 |
| 650 | 6.534 | 34.565 | 27.140 | 0.985 |
| 700 | 6.076 | 34.559 | 27.195 | 1.035 |
| 750 | 5.668 | 34.552 | 27.240 | 1.082 |
| 800 | 5.156 | 34.546 | 27.297 | 1.127 |
| 900 | 4.739 | 34.550 | 27.349 | 1.211 |
| 1000 | 4.560 | 34.554 | 27.371 | 1.293 |
| 1500 | 2.968 | 34.602 | 27.570 | 1.646 |
| 2000 | 2.141 | 34.642 | 27.674 | 1.931 |
| 2500 | 1.682 | 34.664 | 27.727 | 2.175 |
| 3000 | 1.452 | 34.675 | 27.753 | 2.405 |
| 3500 | 1.253 | 34.687 | 27.777 | 2.629 |
| 3913 | 1.141 | 34.693 | 27.789 | 2.807 |

CAST EP4-88-OC -027 DATE 31 OCT 88 TIME 1655 GMT
LAT 00 00.7S LONG 114 58.2W

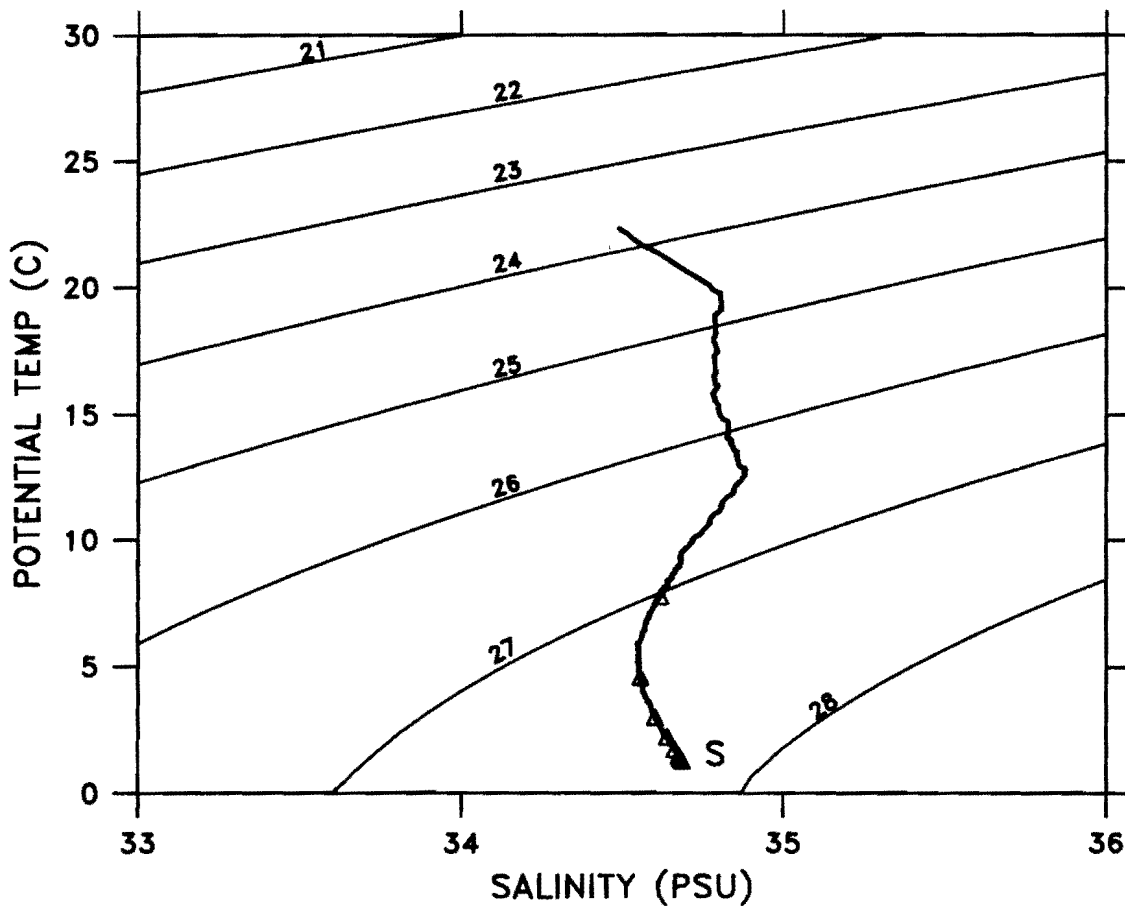


CAST EP4-88-OC -027 DATE 31 OCT 88 TIME 1655 GMT
 LAT 00 00.7S LONG 114 58.2W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 120 T SPD 10 KT VISIBILITY 8
 CLOUD 7 AMOUNT 2 DRY 21.2 WET 20.4 DEPTH 4016 M

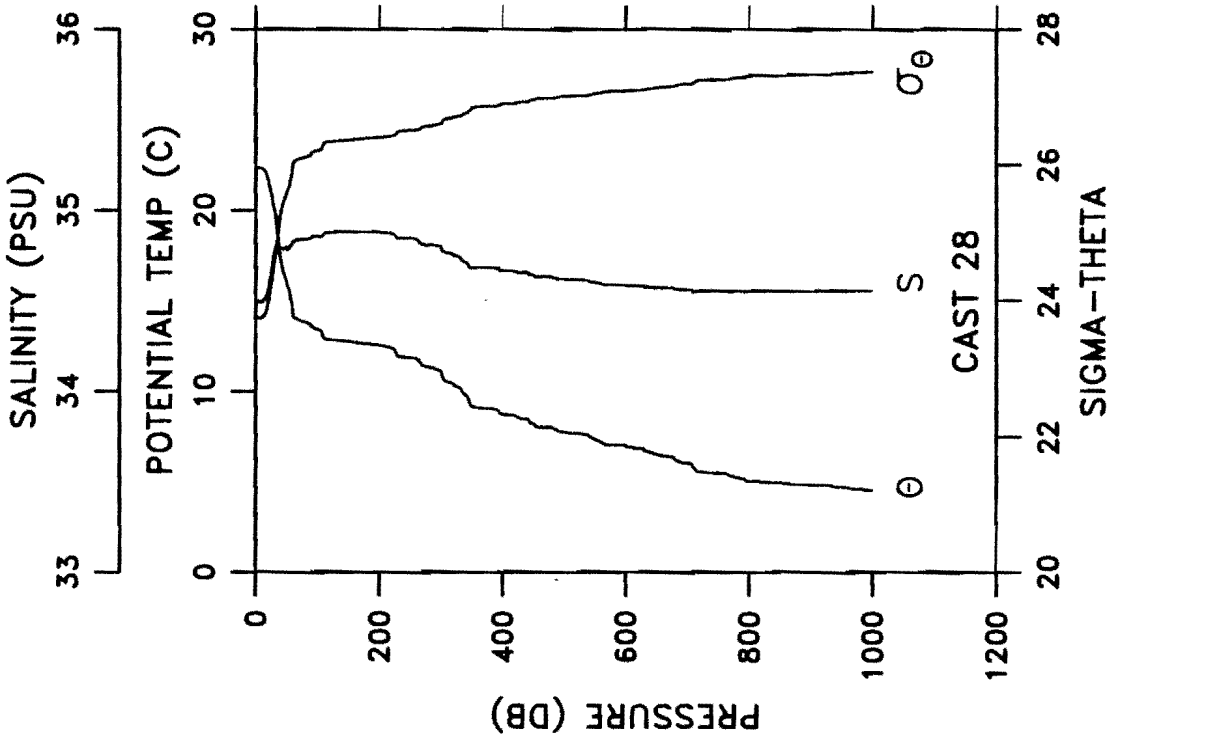


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 19.602 | 34.717 | 24.652 | 0.000 |
| 10 | 19.349 | 34.724 | 24.722 | 0.033 |
| 20 | 18.660 | 34.764 | 24.928 | 0.063 |
| 30 | 17.974 | 34.781 | 25.112 | 0.093 |
| 40 | 16.492 | 34.796 | 25.478 | 0.120 |
| 50 | 14.838 | 34.862 | 25.902 | 0.143 |
| 60 | 14.442 | 34.940 | 26.047 | 0.163 |
| 70 | 14.282 | 34.942 | 26.083 | 0.183 |
| 80 | 14.021 | 34.869 | 26.098 | 0.202 |
| 90 | 13.433 | 34.909 | 26.235 | 0.220 |
| 100 | 13.232 | 34.902 | 26.271 | 0.238 |
| 110 | 13.247 | 34.917 | 26.279 | 0.256 |
| 120 | 13.199 | 34.916 | 26.289 | 0.273 |
| 130 | 13.138 | 34.912 | 26.298 | 0.291 |
| 140 | 13.084 | 34.910 | 26.307 | 0.308 |
| 150 | 13.019 | 34.906 | 26.317 | 0.326 |
| 160 | 12.936 | 34.905 | 26.332 | 0.343 |
| 170 | 12.813 | 34.897 | 26.351 | 0.360 |
| 180 | 12.595 | 34.886 | 26.386 | 0.377 |
| 190 | 12.479 | 34.882 | 26.405 | 0.394 |
| 200 | 12.467 | 34.882 | 26.408 | 0.411 |
| 250 | 11.633 | 34.831 | 26.528 | 0.491 |
| 299 | 10.978 | 34.782 | 26.610 | 0.566 |

CAST EP4-88-OC -028 DATE 01 NOV 88 TIME 1353 GMT
LAT 00 00.0N LONG 120 00.5W

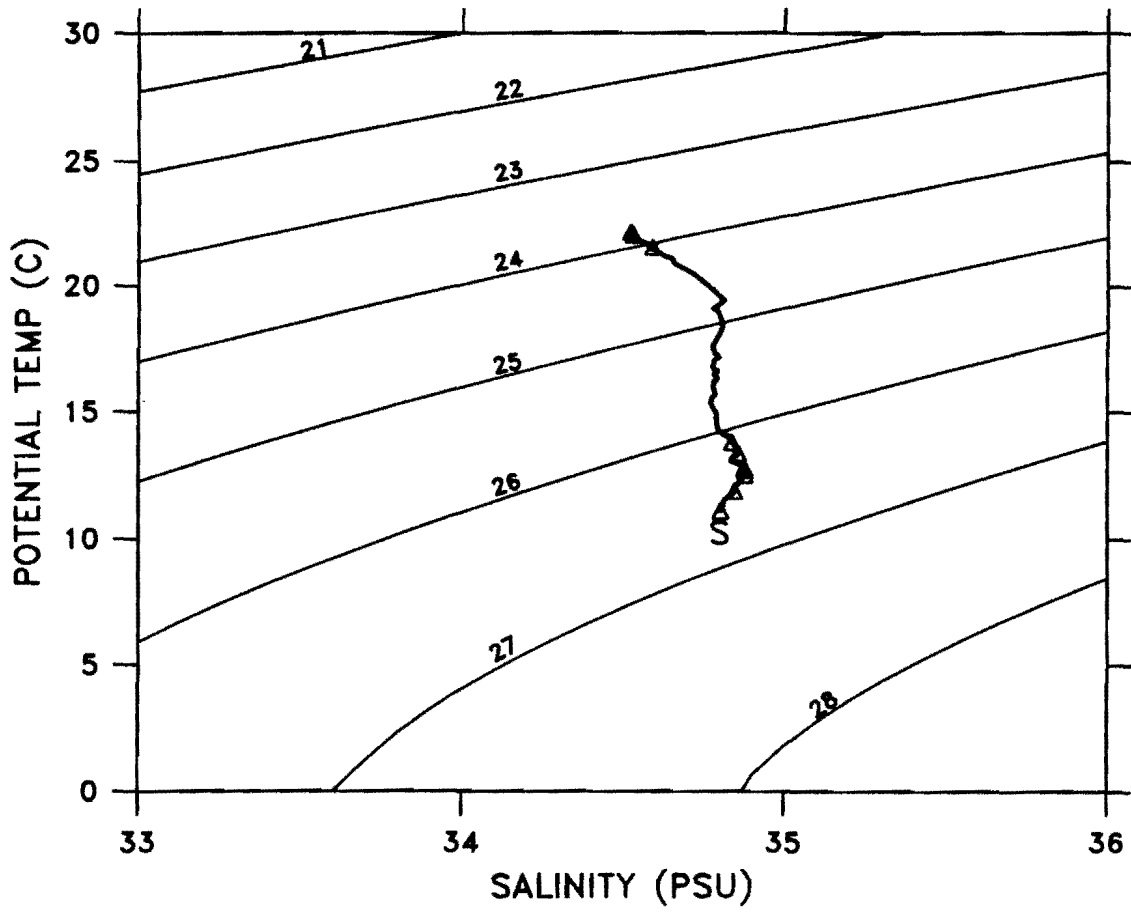


CAST EP4-88-0C -028 DATE 01 NOV 88 TIME 1353 GMT
 LAT 00 00.0N LONG 120 00.5W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 110 T SPD 11 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 21.7 WET 20.0 DEPTH 4202 M

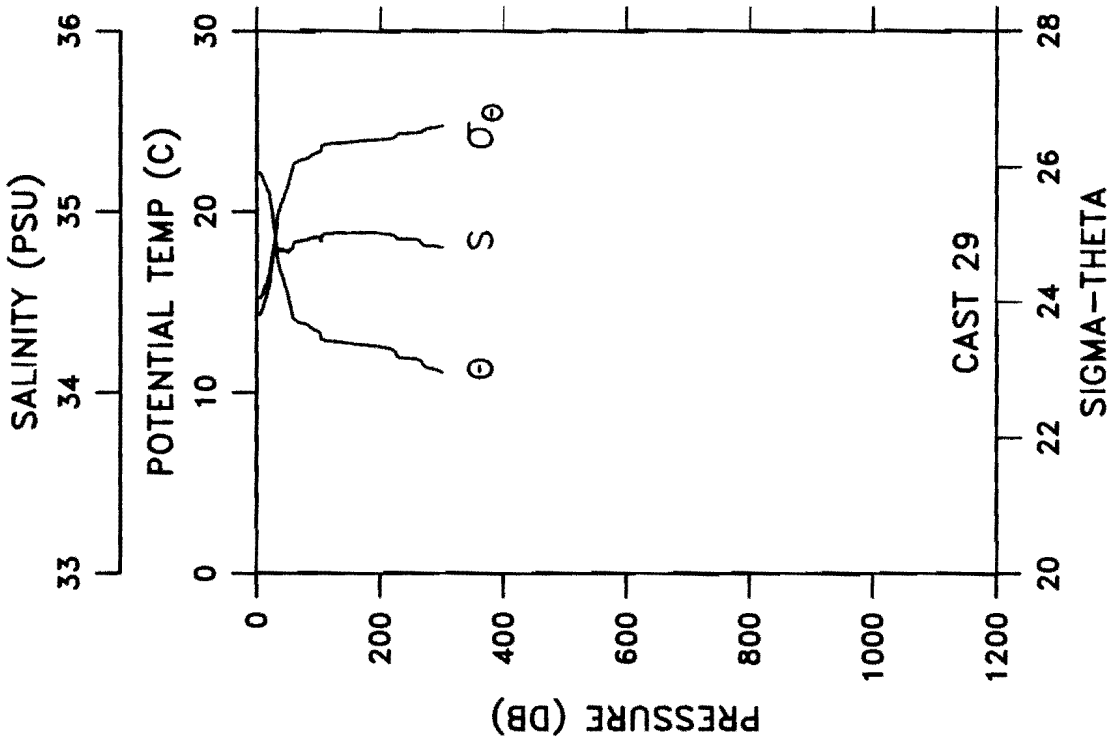


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.309 | 34.492 | 23.747 | 0.000 |
| 10 | 22.328 | 34.491 | 23.740 | 0.041 |
| 20 | 21.678 | 34.562 | 23.976 | 0.082 |
| 30 | 20.082 | 34.772 | 24.567 | 0.119 |
| 40 | 17.338 | 34.786 | 25.270 | 0.149 |
| 50 | 15.979 | 34.789 | 25.591 | 0.175 |
| 60 | 14.247 | 34.829 | 26.004 | 0.197 |
| 70 | 13.907 | 34.836 | 26.080 | 0.217 |
| 80 | 13.804 | 34.840 | 26.105 | 0.236 |
| 90 | 13.564 | 34.849 | 26.162 | 0.255 |
| 100 | 13.402 | 34.856 | 26.201 | 0.274 |
| 110 | 12.910 | 34.867 | 26.309 | 0.292 |
| 120 | 12.825 | 34.877 | 26.333 | 0.309 |
| 130 | 12.797 | 34.879 | 26.340 | 0.326 |
| 140 | 12.768 | 34.880 | 26.347 | 0.343 |
| 150 | 12.722 | 34.880 | 26.356 | 0.360 |
| 160 | 12.665 | 34.879 | 26.366 | 0.377 |
| 170 | 12.626 | 34.880 | 26.375 | 0.394 |
| 180 | 12.587 | 34.881 | 26.383 | 0.411 |
| 190 | 12.564 | 34.881 | 26.388 | 0.428 |
| 200 | 12.518 | 34.878 | 26.394 | 0.445 |
| 250 | 11.834 | 34.844 | 26.500 | 0.526 |
| 300 | 11.106 | 34.800 | 26.601 | 0.604 |
| 350 | 9.208 | 34.886 | 26.839 | 0.673 |
| 400 | 8.738 | 34.865 | 26.897 | 0.736 |
| 450 | 8.224 | 34.641 | 26.958 | 0.797 |
| 500 | 7.757 | 34.618 | 27.010 | 0.854 |
| 550 | 7.371 | 34.600 | 27.052 | 0.910 |
| 600 | 7.022 | 34.584 | 27.088 | 0.964 |
| 650 | 6.557 | 34.572 | 27.142 | 1.016 |
| 700 | 6.071 | 34.560 | 27.196 | 1.065 |
| 750 | 5.537 | 34.554 | 27.258 | 1.111 |
| 800 | 5.073 | 34.552 | 27.312 | 1.156 |
| 900 | 4.883 | 34.553 | 27.335 | 1.240 |
| 1000 | 4.564 | 34.557 | 27.373 | 1.323 |
| 1500 | 3.021 | 34.602 | 27.565 | 1.677 |
| 2000 | 2.249 | 34.637 | 27.661 | 1.962 |
| 2500 | 1.721 | 34.663 | 27.723 | 2.216 |
| 3000 | 1.472 | 34.674 | 27.751 | 2.450 |
| 3500 | 1.261 | 34.686 | 27.776 | 2.674 |
| 4000 | 1.125 | 34.693 | 27.791 | 2.892 |
| 4048 | 1.124 | 34.693 | 27.790 | 2.913 |

CAST EP4-88-OC -029 DATE 01 NOV 88 TIME 1709 GMT
LAT 00 00.3S LONG 120 00.0W

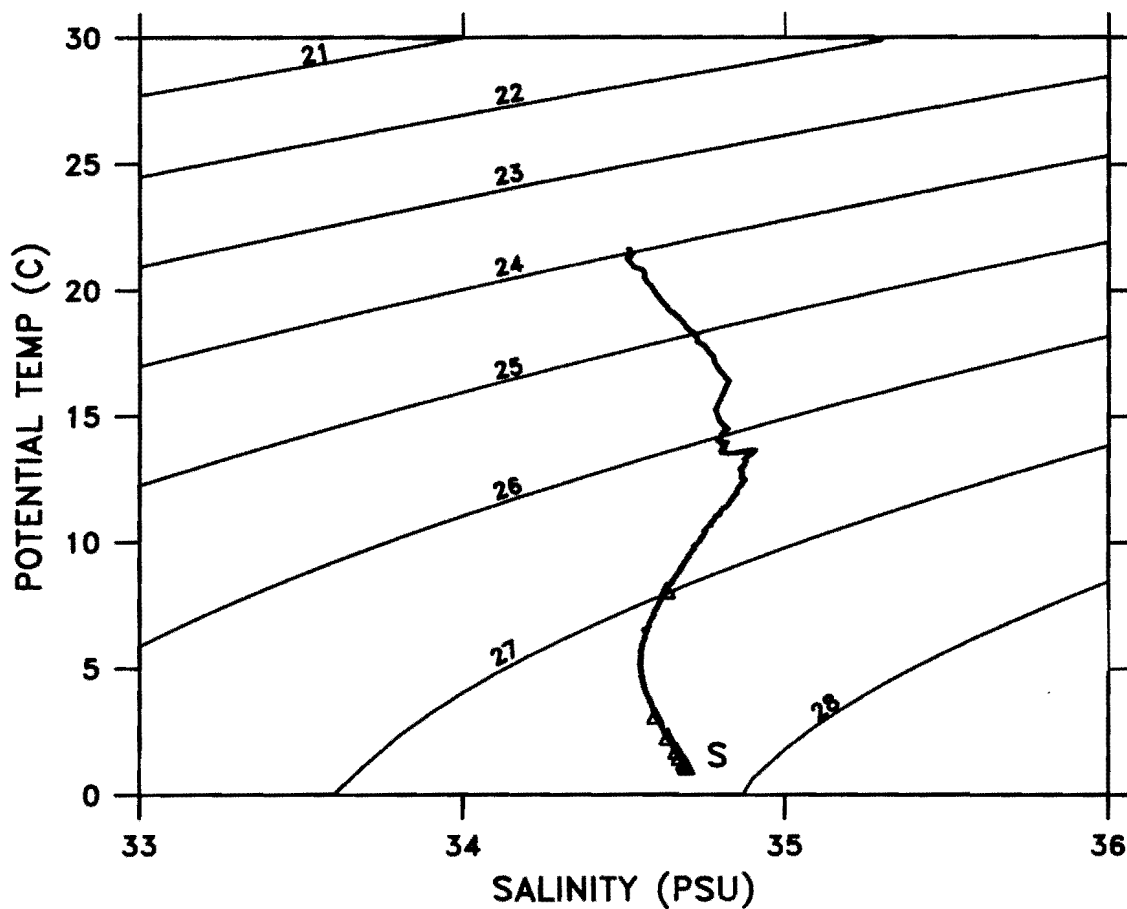


CAST EP4-88-OC -029 DATE 01 NOV 88 TIME 1709 GMT
 LAT 00 00.3S LONG 120 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 105 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 22.6 WET 10.8 DEPTH 4193 M

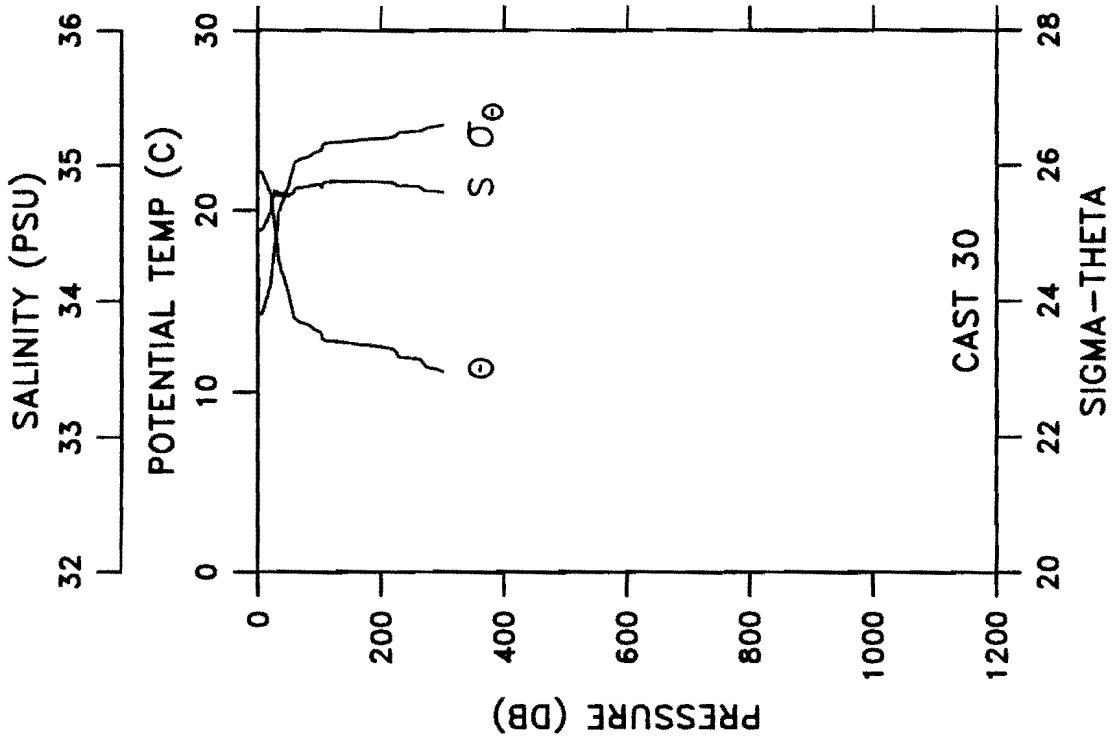


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.148 | 34.523 | 23.816 | 0.000 |
| 10 | 21.875 | 34.538 | 23.903 | 0.041 |
| 20 | 21.100 | 34.649 | 24.201 | 0.079 |
| 30 | 18.712 | 34.800 | 24.943 | 0.113 |
| 40 | 16.552 | 34.792 | 25.461 | 0.140 |
| 50 | 15.441 | 34.774 | 25.701 | 0.164 |
| 60 | 14.042 | 34.825 | 26.044 | 0.185 |
| 70 | 13.836 | 34.836 | 26.095 | 0.205 |
| 80 | 13.749 | 34.841 | 26.117 | 0.224 |
| 90 | 13.511 | 34.854 | 26.177 | 0.243 |
| 100 | 13.345 | 34.855 | 26.211 | 0.261 |
| 110 | 12.841 | 34.877 | 26.330 | 0.279 |
| 120 | 12.804 | 34.878 | 26.338 | 0.296 |
| 130 | 12.780 | 34.883 | 26.347 | 0.313 |
| 140 | 12.743 | 34.880 | 26.352 | 0.330 |
| 150 | 12.706 | 34.881 | 26.360 | 0.347 |
| 160 | 12.645 | 34.880 | 26.371 | 0.364 |
| 170 | 12.610 | 34.882 | 26.379 | 0.381 |
| 180 | 12.581 | 34.884 | 26.387 | 0.397 |
| 190 | 12.547 | 34.881 | 26.391 | 0.414 |
| 200 | 12.500 | 34.877 | 26.397 | 0.431 |
| 250 | 11.852 | 34.846 | 26.498 | 0.513 |
| 300 | 11.130 | 34.803 | 26.599 | 0.590 |
| 301 | 11.112 | 34.802 | 26.602 | 0.592 |

CAST EP4-88-OC -030 DATE 02 NOV 88 TIME 1303 GMT
LAT 00 07.0N LONG 124 25.6W

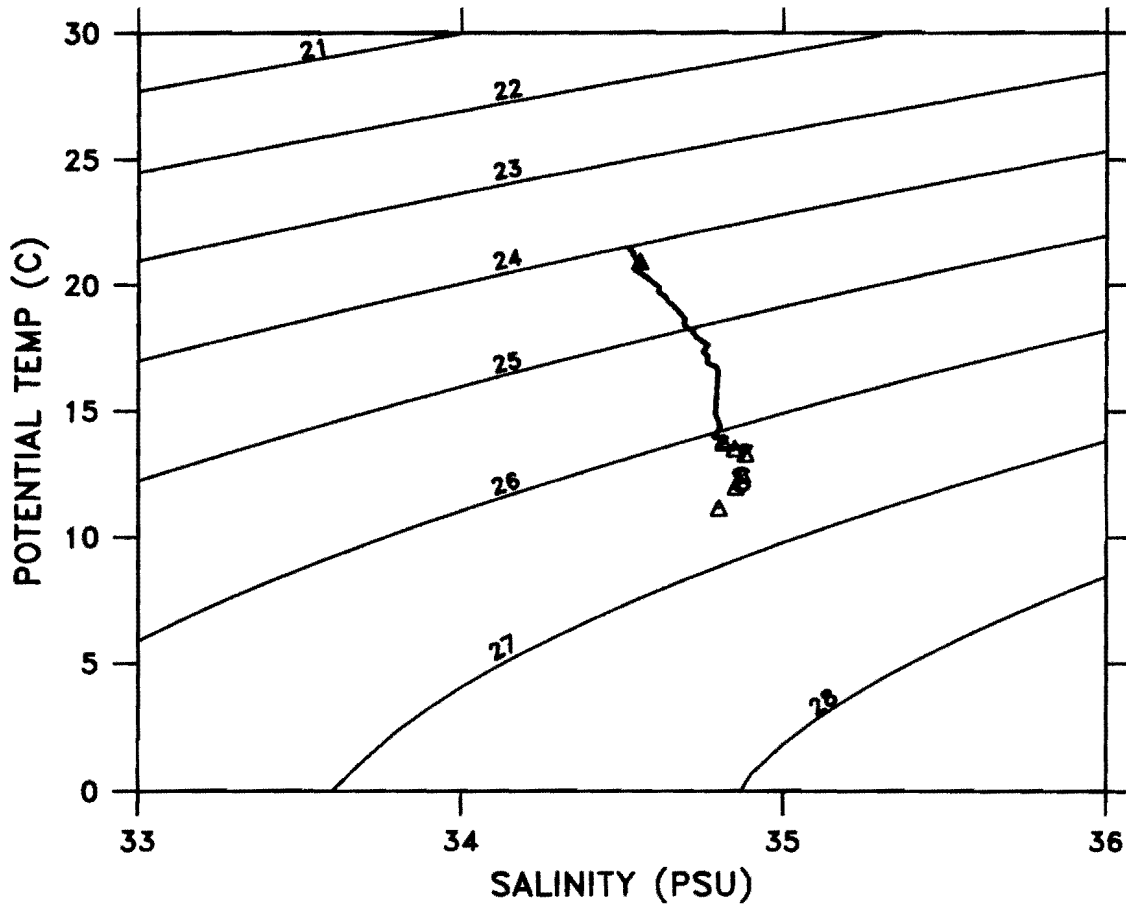


CST EP4-88-0C -030 DATE 02 NOV 88 TIME 1303 GMT
 LAT 00 07.0N LONG 124 25.6W WEATHER 2 SEA STATE 3
 BAROMETER 14 WIND DIR 117 T SPD 22 KT VISIBILITY 7
 CLOUD 3 AMOUNT 7 DRY 23.0 WET 19.7 DEPTH 4598 M

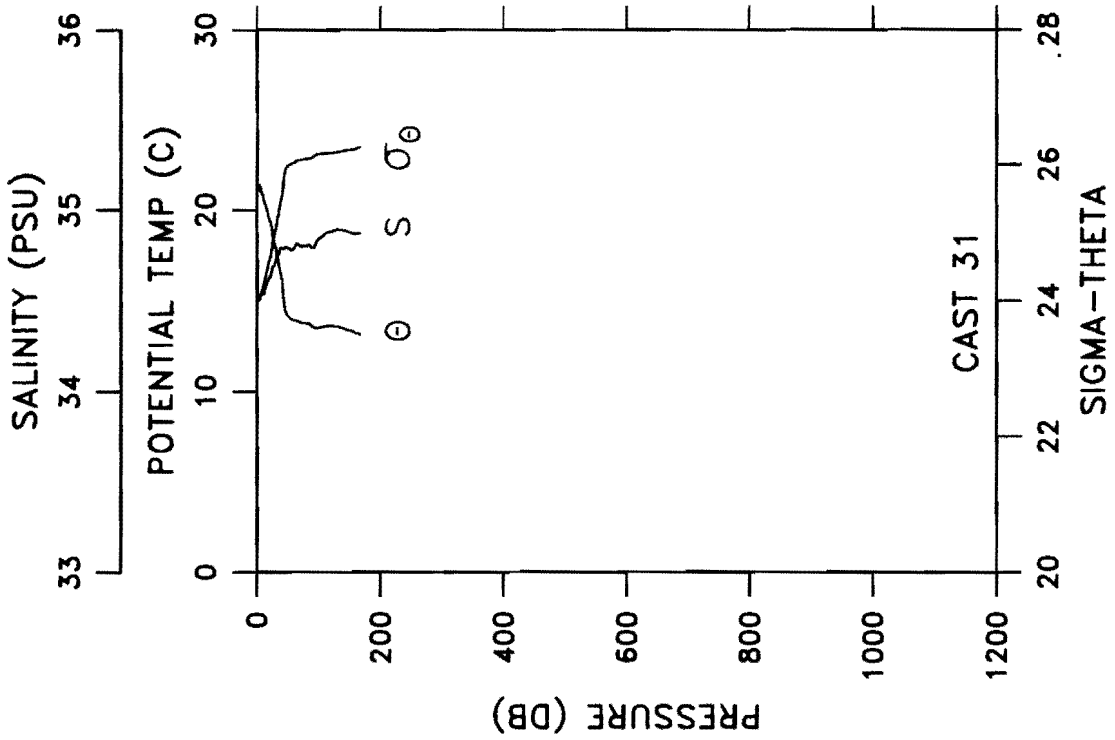


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.661 | 34.516 | 23.946 | 0.000 |
| 10 | 21.282 | 34.508 | 24.044 | 0.039 |
| 20 | 19.858 | 34.599 | 24.494 | 0.075 |
| 30 | 18.620 | 34.688 | 24.880 | 0.108 |
| 40 | 17.368 | 34.777 | 25.256 | 0.137 |
| 50 | 14.809 | 34.796 | 25.857 | 0.162 |
| 60 | 14.038 | 34.790 | 26.017 | 0.182 |
| 70 | 13.930 | 34.817 | 26.061 | 0.202 |
| 80 | 13.806 | 34.811 | 26.082 | 0.222 |
| 90 | 13.690 | 34.806 | 26.103 | 0.241 |
| 100 | 13.534 | 34.836 | 26.158 | 0.260 |
| 110 | 13.597 | 34.865 | 26.168 | 0.279 |
| 120 | 13.667 | 34.898 | 26.178 | 0.297 |
| 130 | 13.606 | 34.905 | 26.196 | 0.316 |
| 140 | 13.507 | 34.897 | 26.211 | 0.334 |
| 150 | 13.379 | 34.882 | 26.225 | 0.353 |
| 160 | 13.265 | 34.877 | 26.245 | 0.371 |
| 170 | 13.118 | 34.876 | 26.274 | 0.389 |
| 180 | 12.995 | 34.871 | 26.295 | 0.407 |
| 190 | 12.705 | 34.868 | 26.350 | 0.424 |
| 200 | 12.491 | 34.873 | 26.396 | 0.441 |
| 250 | 12.119 | 34.854 | 26.453 | 0.525 |
| 300 | 11.128 | 34.799 | 26.596 | 0.603 |
| 350 | 10.198 | 34.742 | 26.717 | 0.675 |
| 400 | 9.342 | 34.697 | 26.826 | 0.743 |
| 450 | 8.749 | 34.668 | 26.899 | 0.806 |
| 500 | 8.084 | 34.633 | 26.973 | 0.866 |
| 550 | 7.641 | 34.613 | 27.023 | 0.923 |
| 600 | 7.071 | 34.591 | 27.087 | 0.977 |
| 650 | 6.669 | 34.575 | 27.130 | 1.030 |
| 700 | 6.397 | 34.569 | 27.161 | 1.080 |
| 750 | 5.702 | 34.552 | 27.236 | 1.129 |
| 800 | 5.479 | 34.556 | 27.266 | 1.174 |
| 900 | 4.893 | 34.554 | 27.334 | 1.262 |
| 1000 | 4.512 | 34.559 | 27.380 | 1.344 |
| 1500 | 3.106 | 34.598 | 27.555 | 1.698 |
| 2000 | 2.290 | 34.635 | 27.656 | 1.983 |
| 2500 | 1.729 | 34.662 | 27.722 | 2.236 |
| 3000 | 1.502 | 34.673 | 27.748 | 2.471 |
| 3500 | 1.259 | 34.687 | 27.776 | 2.699 |
| 4000 | 1.121 | 34.694 | 27.791 | 2.916 |
| 4396 | 1.120 | 34.693 | 27.791 | 3.082 |

CAST EP4-88-OC -031 DATE 02 NOV 88 TIME 1551 GMT
LAT 00 07.1N LONG 124 26.4W

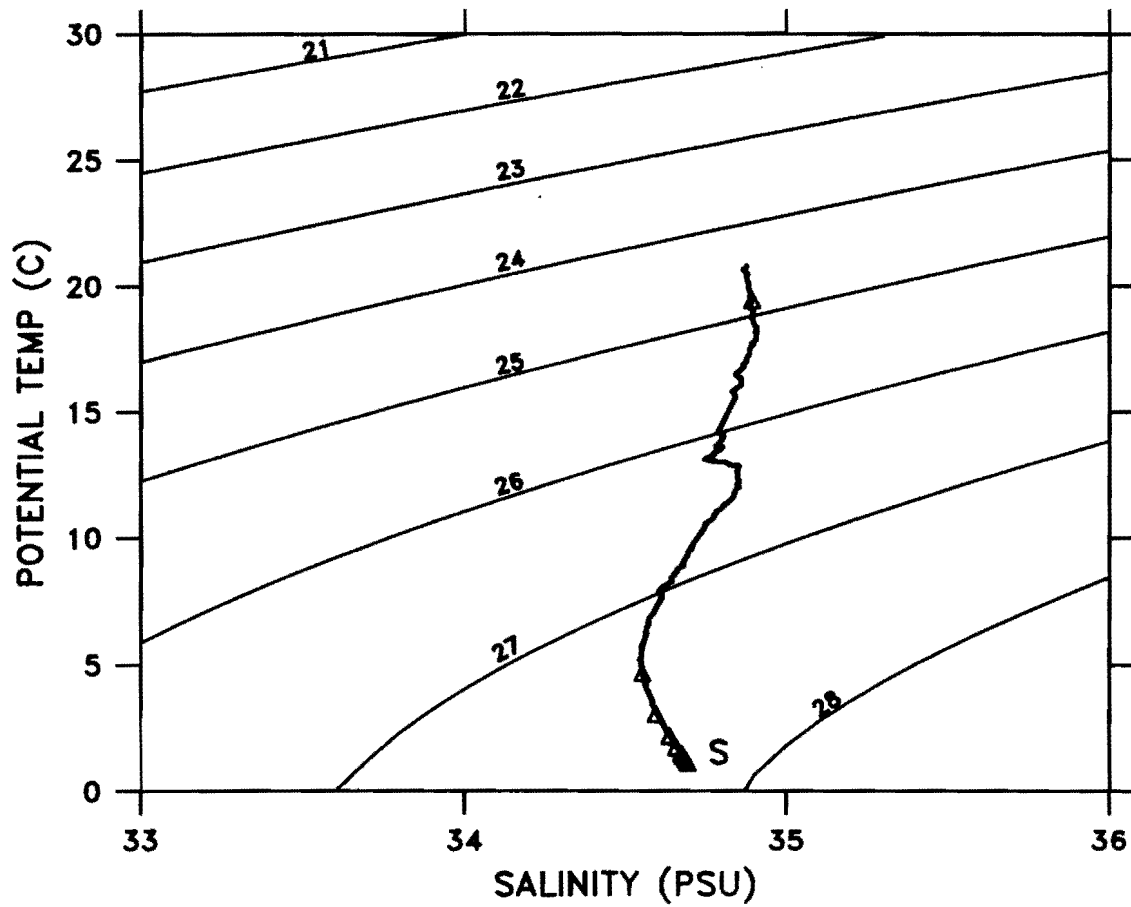


CAST EP4-88-OC -031 DATE 02 NOV 88 TIME 1551 GMT
 LAT 00 07.1N LONG 124 26.4W WEATHER 2 SEA STATE 4
 BAROMETER 15 WIND DIR 106 T SPD 13 KT VISIBILITY 7
 CLOUD 4 AMOUNT 8 DRY 22.6 WET 20.0 DEPTH 4579 M

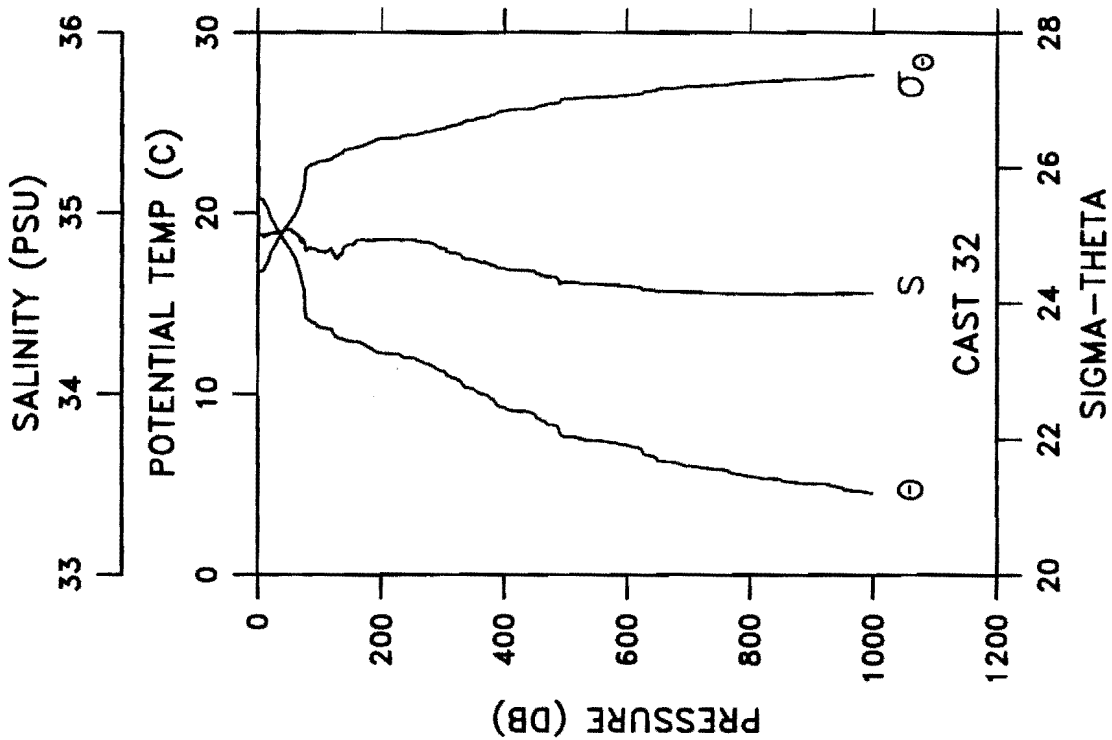


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.429 | 34.523 | 24.015 | 0.000 |
| 10 | 20.720 | 34.561 | 24.237 | 0.038 |
| 20 | 19.491 | 34.635 | 24.617 | 0.073 |
| 30 | 18.020 | 34.723 | 25.056 | 0.104 |
| 40 | 16.279 | 34.796 | 25.527 | 0.131 |
| 50 | 14.196 | 34.796 | 25.988 | 0.153 |
| 60 | 13.957 | 34.794 | 26.037 | 0.173 |
| 70 | 13.836 | 34.806 | 26.073 | 0.192 |
| 80 | 13.771 | 34.807 | 26.086 | 0.212 |
| 90 | 13.582 | 34.797 | 26.118 | 0.231 |
| 100 | 13.528 | 34.842 | 26.164 | 0.250 |
| 110 | 13.602 | 34.872 | 26.171 | 0.269 |
| 120 | 13.840 | 34.883 | 26.172 | 0.287 |
| 130 | 13.601 | 34.899 | 26.192 | 0.306 |
| 140 | 13.489 | 34.890 | 26.209 | 0.324 |
| 150 | 13.385 | 34.880 | 26.222 | 0.343 |
| 160 | 13.245 | 34.872 | 26.245 | 0.361 |
| 167 | 13.159 | 34.872 | 26.262 | 0.373 |

CAST EP4-88-OC -032 DATE 04 NOV 88 TIME 1204 GMT
LAT 00 00.4N LONG 129 59.5W

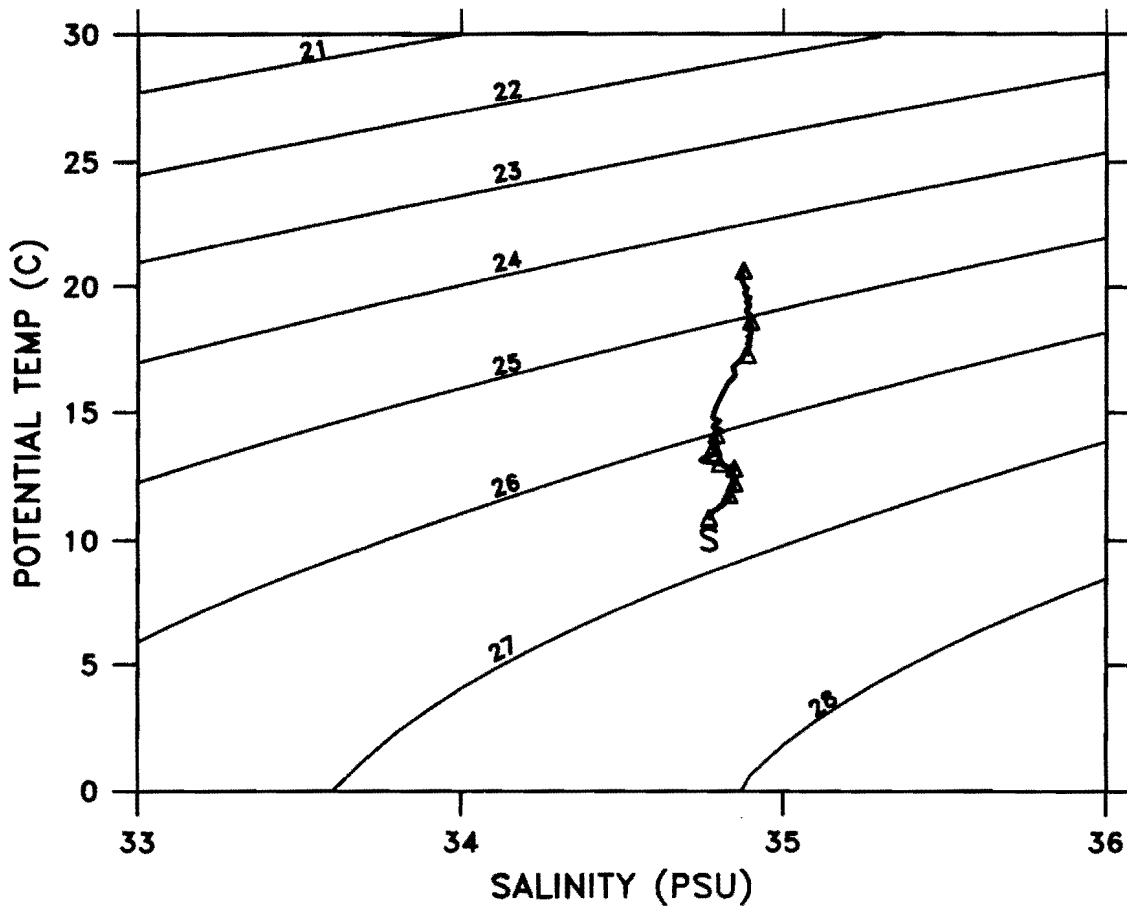


CAST EP4-88-OC -032 DATE 04 NOV 88 TIME 1204 GMT
 LAT 00 00.4N LONG 129 59.5W WEATHER 0 SEA STATE 3
 BAROMETER 11 WIND DIR 115 T SPD 11 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 20.5 WET 19.7 DEPTH 4288 M

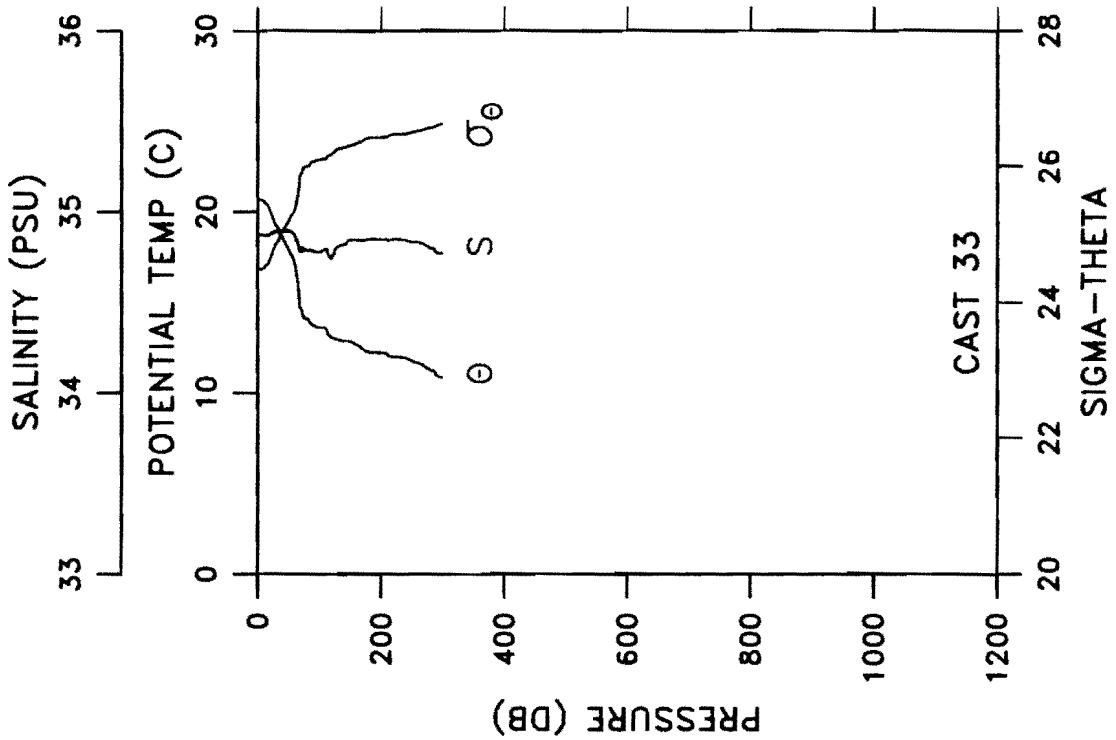


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.796 | 34.875 | 24.455 | 0.000 |
| 10 | 20.610 | 34.864 | 24.497 | 0.035 |
| 20 | 19.808 | 34.864 | 24.725 | 0.068 |
| 30 | 19.163 | 34.888 | 24.895 | 0.099 |
| 40 | 18.568 | 34.896 | 25.052 | 0.129 |
| 50 | 18.059 | 34.906 | 25.186 | 0.158 |
| 60 | 17.457 | 34.885 | 25.318 | 0.185 |
| 70 | 16.332 | 34.859 | 25.563 | 0.211 |
| 80 | 14.127 | 34.797 | 26.004 | 0.233 |
| 90 | 13.909 | 34.799 | 26.052 | 0.253 |
| 100 | 13.673 | 34.785 | 26.090 | 0.272 |
| 110 | 13.597 | 34.780 | 26.102 | 0.292 |
| 120 | 13.509 | 34.796 | 26.132 | 0.311 |
| 130 | 13.084 | 34.752 | 26.185 | 0.330 |
| 140 | 12.978 | 34.813 | 26.254 | 0.348 |
| 150 | 12.909 | 34.825 | 26.276 | 0.366 |
| 160 | 12.882 | 34.846 | 26.298 | 0.384 |
| 170 | 12.763 | 34.850 | 26.325 | 0.401 |
| 180 | 12.576 | 34.847 | 26.359 | 0.418 |
| 190 | 12.351 | 34.849 | 26.404 | 0.435 |
| 200 | 12.256 | 34.854 | 26.427 | 0.452 |
| 250 | 11.991 | 34.850 | 26.475 | 0.533 |
| 300 | 11.258 | 34.803 | 26.576 | 0.612 |
| 350 | 10.284 | 34.739 | 26.700 | 0.685 |
| 400 | 9.265 | 34.691 | 26.834 | 0.753 |
| 450 | 8.895 | 34.680 | 26.885 | 0.817 |
| 500 | 7.652 | 34.613 | 27.022 | 0.876 |
| 550 | 7.442 | 34.603 | 27.044 | 0.932 |
| 600 | 7.185 | 34.593 | 27.072 | 0.986 |
| 650 | 6.297 | 34.563 | 27.169 | 1.038 |
| 700 | 6.007 | 34.560 | 27.204 | 1.087 |
| 750 | 5.834 | 34.555 | 27.222 | 1.135 |
| 800 | 5.449 | 34.550 | 27.265 | 1.181 |
| 900 | 5.046 | 34.550 | 27.314 | 1.269 |
| 1000 | 4.506 | 34.556 | 27.379 | 1.352 |
| 1500 | 2.933 | 34.604 | 27.576 | 1.704 |
| 2000 | 2.159 | 34.641 | 27.671 | 1.986 |
| 2500 | 1.717 | 34.662 | 27.723 | 2.233 |
| 3000 | 1.487 | 34.673 | 27.749 | 2.467 |
| 3500 | 1.251 | 34.686 | 27.776 | 2.693 |
| 3987 | 1.113 | 34.693 | 27.791 | 2.908 |

CAST EP4-88-OC -033 DATE 04 NOV 88 TIME 1518 GMT
LAT 00 01.4N LONG 129 57.4W

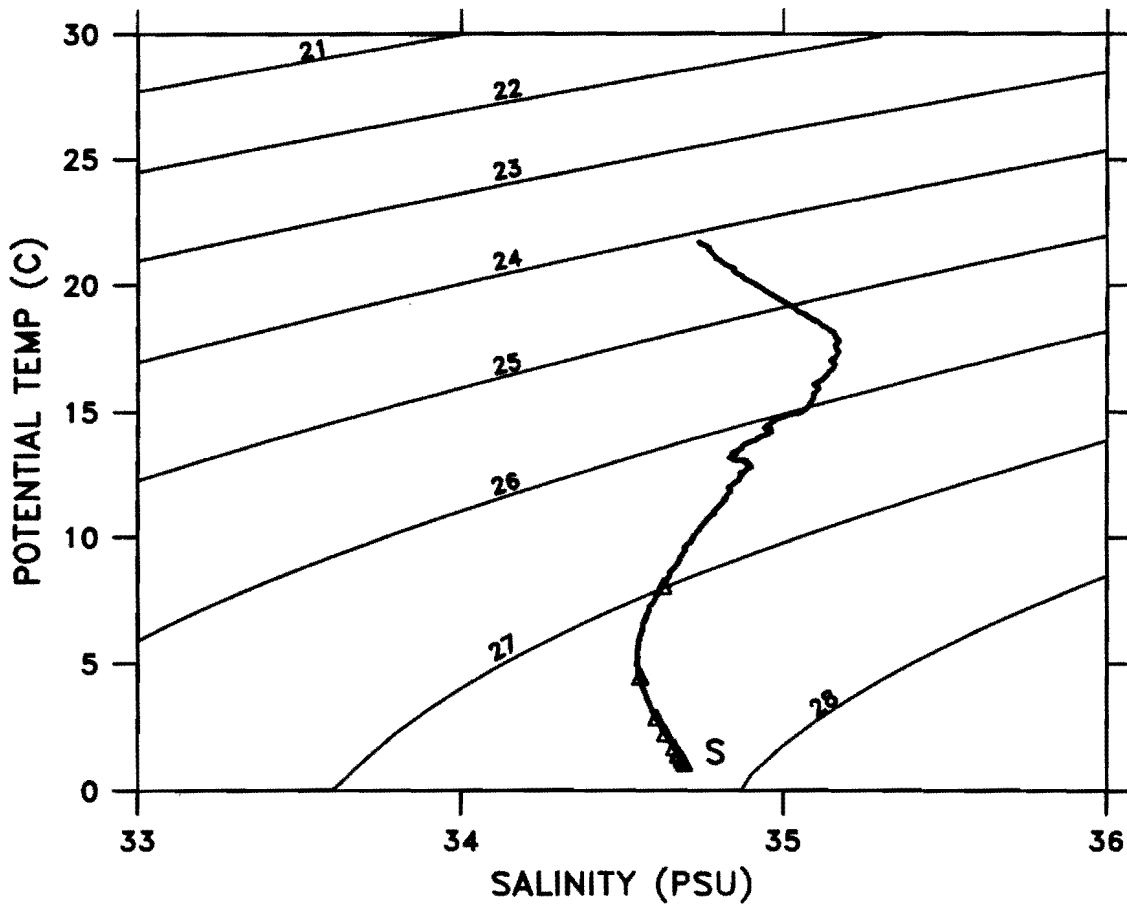


CAST EP4-88-OC -033 DATE 04 NOV 88 TIME 1518 GMT
 LAT 00 01.4N LONG 129 57.4W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 115 T SPD 12 KT VISIBILITY 8
 CLOUD 6 AMOUNT 1 DRY 21.4 WET 20.3 DEPTH 4322 M

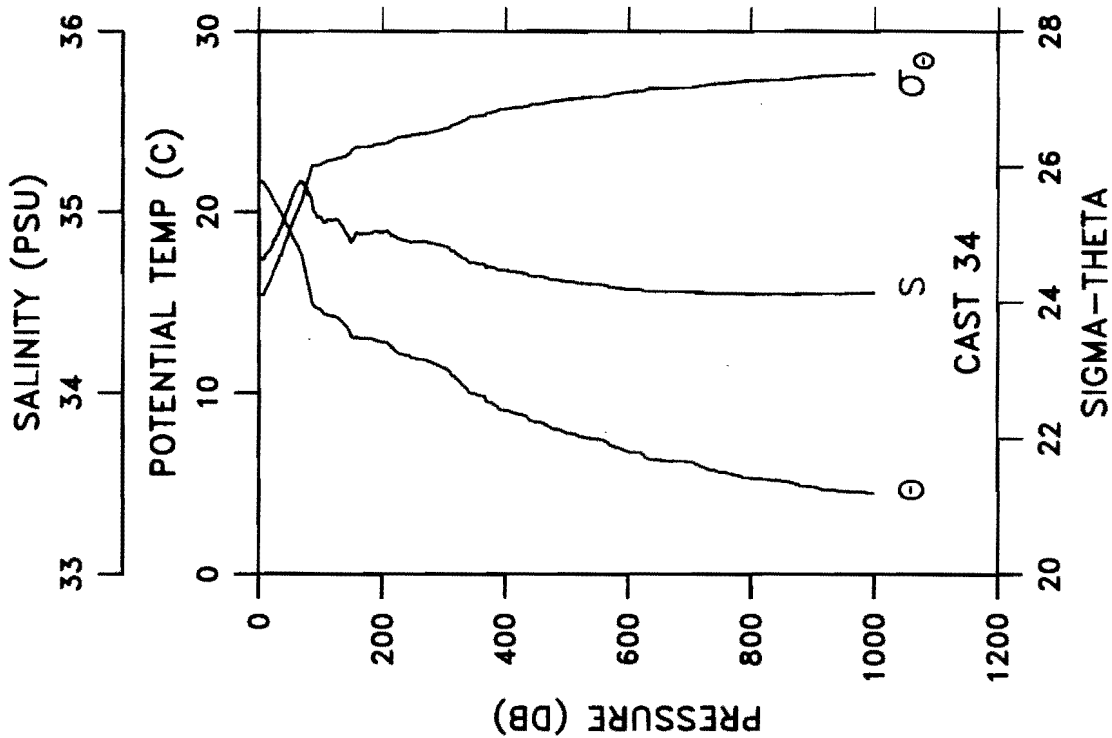


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.689 | 34.875 | 24.484 | 0.000 |
| 10 | 20.601 | 34.871 | 24.505 | 0.034 |
| 20 | 20.062 | 34.877 | 24.653 | 0.068 |
| 30 | 19.269 | 34.895 | 24.873 | 0.100 |
| 40 | 18.524 | 34.894 | 25.061 | 0.130 |
| 50 | 17.945 | 34.896 | 25.207 | 0.158 |
| 60 | 17.154 | 34.873 | 25.381 | 0.185 |
| 70 | 14.652 | 34.803 | 25.897 | 0.209 |
| 80 | 14.107 | 34.791 | 26.003 | 0.229 |
| 90 | 13.747 | 34.782 | 26.072 | 0.249 |
| 100 | 13.603 | 34.779 | 26.099 | 0.269 |
| 110 | 13.585 | 34.793 | 26.114 | 0.288 |
| 120 | 13.069 | 34.752 | 26.188 | 0.307 |
| 130 | 12.953 | 34.809 | 26.255 | 0.325 |
| 140 | 12.881 | 34.820 | 26.278 | 0.343 |
| 150 | 12.846 | 34.846 | 26.305 | 0.360 |
| 160 | 12.667 | 34.844 | 26.339 | 0.378 |
| 170 | 12.455 | 34.844 | 26.381 | 0.395 |
| 180 | 12.267 | 34.849 | 26.421 | 0.411 |
| 190 | 12.238 | 34.850 | 26.427 | 0.428 |
| 200 | 12.226 | 34.849 | 26.429 | 0.444 |
| 250 | 11.786 | 34.835 | 26.502 | 0.525 |
| 299 | 10.876 | 34.772 | 26.621 | 0.600 |

CAST EP4-88-OC -034 DATE 05 NOV 88 TIME 1151 GMT
LAT 00 00.6S LONG 134 59.6W

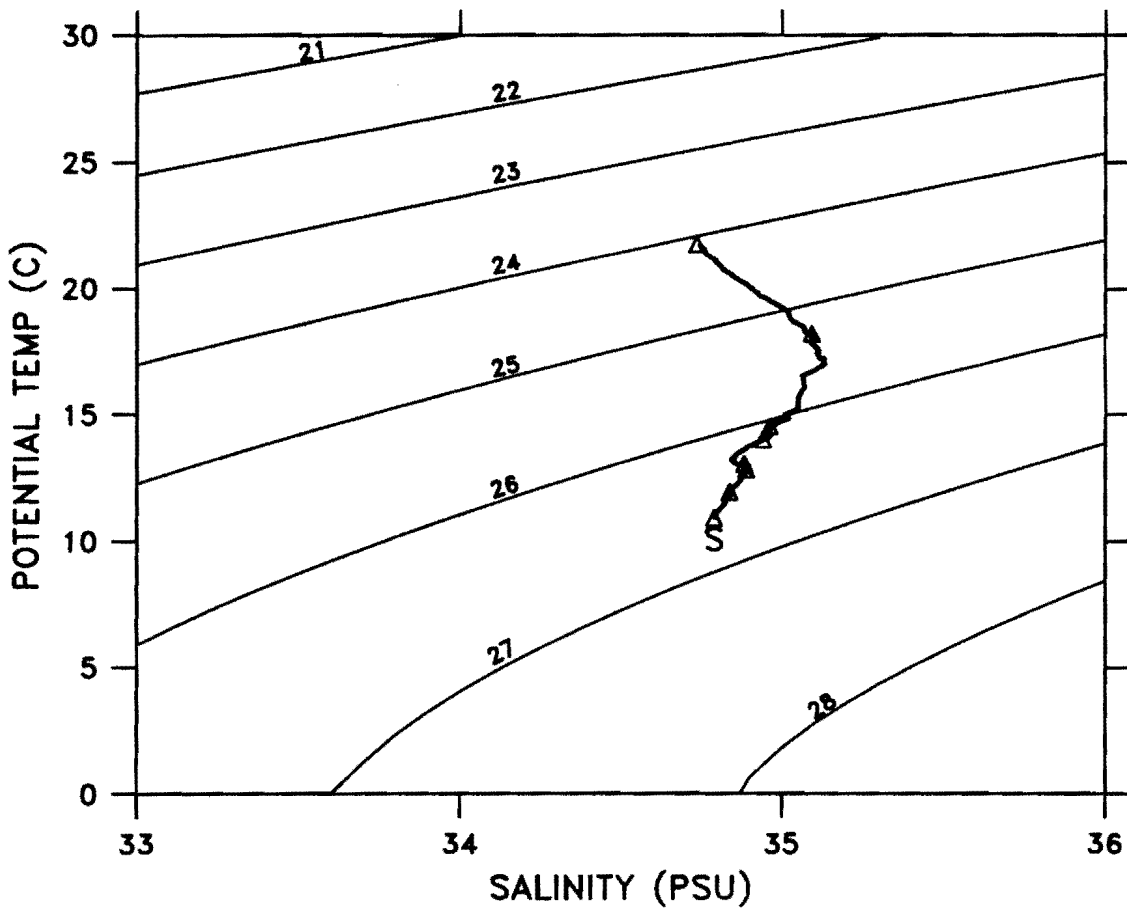


CAST EP4-88-OC -034 DATE 05 NOV 88 TIME 1151 GMT
 LAT 00 00.6S LONG 134 59.6W WEATHER 0 SEA STATE 2
 BAROMETER 12 WIND DIR 120 T SPD 13 KT VISIBILITY 8
 CLOUD X AMOUNT 1 DRY 21.7 WET 20.8 DEPTH 4371 M

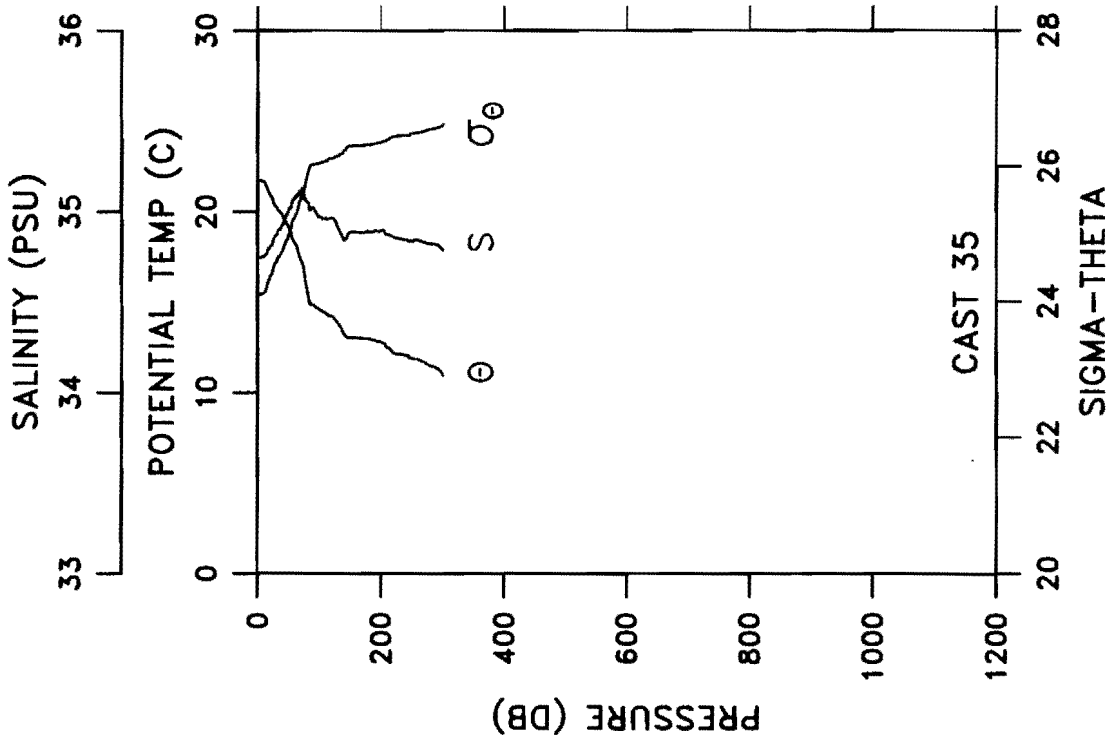


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.641 | 34.740 | 24.122 | 0.000 |
| 10 | 21.483 | 34.769 | 24.187 | 0.038 |
| 20 | 20.925 | 34.805 | 24.367 | 0.074 |
| 30 | 20.313 | 34.874 | 24.584 | 0.109 |
| 40 | 19.670 | 34.956 | 24.816 | 0.141 |
| 50 | 18.944 | 35.044 | 25.070 | 0.171 |
| 60 | 18.276 | 35.136 | 25.309 | 0.199 |
| 70 | 17.504 | 35.162 | 25.519 | 0.225 |
| 80 | 15.994 | 35.107 | 25.832 | 0.248 |
| 90 | 14.783 | 34.996 | 26.017 | 0.269 |
| 100 | 14.629 | 34.969 | 26.029 | 0.289 |
| 110 | 14.325 | 34.953 | 26.083 | 0.309 |
| 120 | 14.236 | 34.952 | 26.101 | 0.328 |
| 130 | 14.094 | 34.951 | 26.130 | 0.347 |
| 140 | 13.741 | 34.889 | 26.156 | 0.366 |
| 150 | 13.133 | 34.839 | 26.242 | 0.385 |
| 160 | 13.057 | 34.883 | 26.292 | 0.403 |
| 170 | 13.029 | 34.880 | 26.295 | 0.420 |
| 180 | 13.013 | 34.883 | 26.301 | 0.438 |
| 190 | 12.906 | 34.893 | 26.329 | 0.456 |
| 200 | 12.832 | 34.888 | 26.340 | 0.473 |
| 250 | 11.936 | 34.834 | 26.473 | 0.556 |
| 300 | 11.380 | 34.811 | 26.559 | 0.636 |
| 350 | 9.954 | 34.720 | 26.741 | 0.708 |
| 400 | 9.057 | 34.677 | 26.857 | 0.774 |
| 450 | 8.432 | 34.646 | 26.931 | 0.836 |
| 500 | 7.802 | 34.615 | 27.001 | 0.895 |
| 550 | 7.471 | 34.600 | 27.038 | 0.951 |
| 600 | 6.796 | 34.572 | 27.110 | 1.005 |
| 650 | 6.313 | 34.563 | 27.167 | 1.056 |
| 700 | 6.225 | 34.560 | 27.176 | 1.105 |
| 750 | 5.665 | 34.550 | 27.239 | 1.153 |
| 800 | 5.334 | 34.548 | 27.278 | 1.198 |
| 900 | 4.864 | 34.549 | 27.333 | 1.285 |
| 1000 | 4.501 | 34.554 | 27.378 | 1.366 |
| 1500 | 2.922 | 34.602 | 27.575 | 1.723 |
| 2000 | 2.264 | 34.632 | 27.656 | 2.007 |
| 2500 | 1.725 | 34.661 | 27.721 | 2.256 |
| 3000 | 1.453 | 34.673 | 27.751 | 2.490 |
| 3500 | 1.253 | 34.684 | 27.775 | 2.718 |
| 4000 | 1.105 | 34.693 | 27.792 | 2.936 |
| 4199 | 1.102 | 34.693 | 27.792 | 3.023 |

CAST EP4-88-OC -035 DATE 05 NOV 88 TIME 1535 GMT
LAT 00 00.5S LONG 135 00.0W

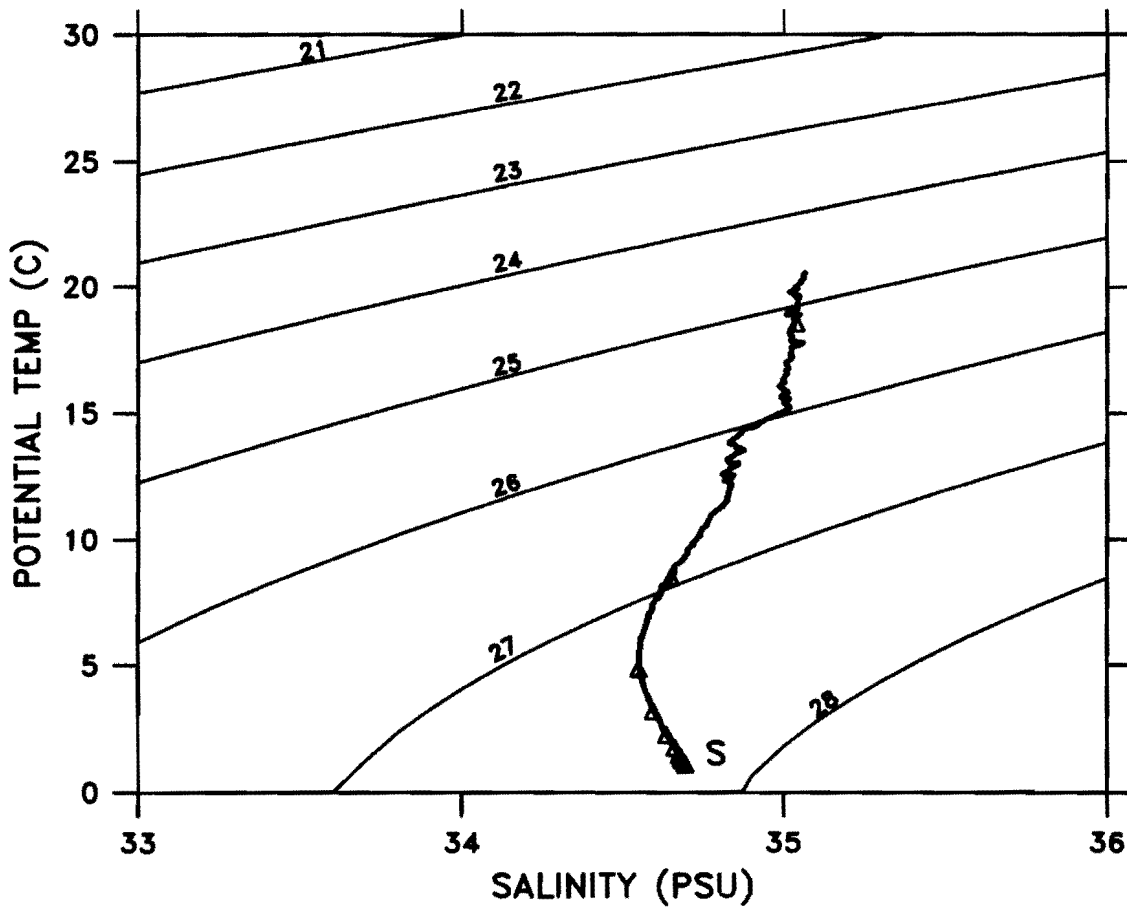


CAST EP4-88-OC -035 DATE 05 NOV 88 TIME 1535 GMT
 LAT 00 00.5S LONG 135 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 120 T SPD 17 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 21.9 WET 20.9 DEPTH 4350 M

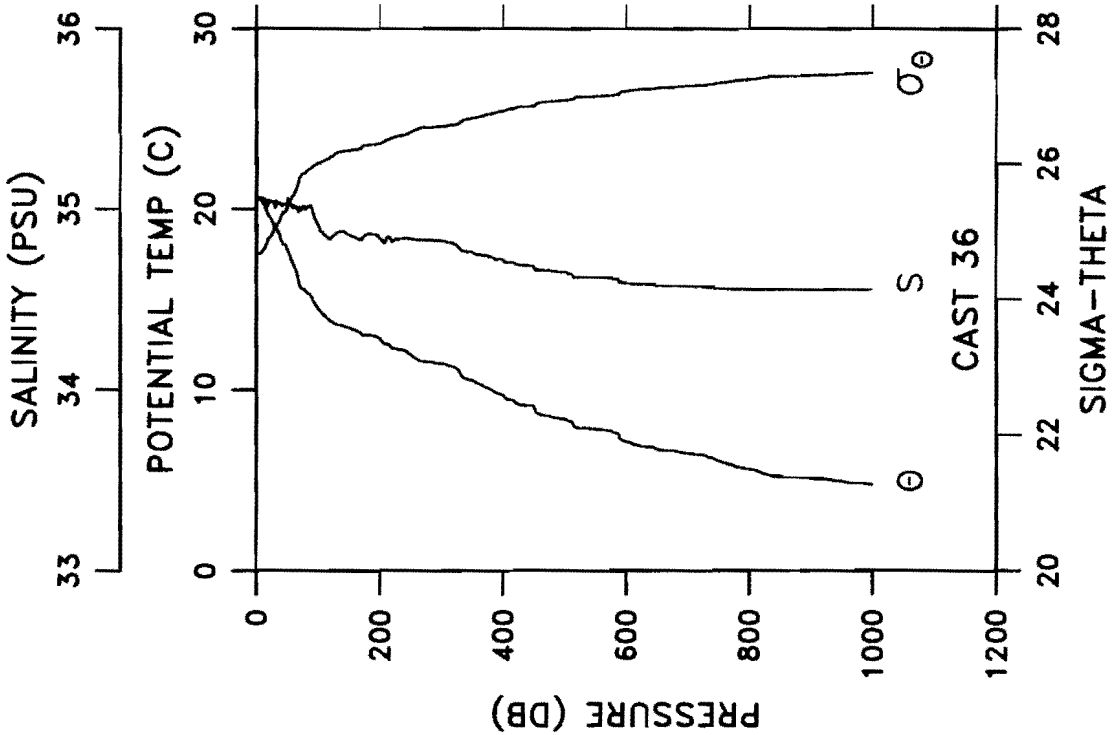


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.723 | 34.746 | 24.103 | 0.000 |
| 10 | 21.661 | 34.749 | 24.123 | 0.038 |
| 20 | 20.941 | 34.806 | 24.364 | 0.075 |
| 30 | 20.311 | 34.869 | 24.581 | 0.109 |
| 40 | 19.826 | 34.925 | 24.751 | 0.142 |
| 50 | 19.162 | 35.011 | 24.989 | 0.173 |
| 60 | 18.271 | 35.071 | 25.260 | 0.201 |
| 70 | 17.329 | 35.113 | 25.523 | 0.228 |
| 80 | 15.712 | 35.052 | 25.854 | 0.251 |
| 90 | 14.815 | 35.021 | 26.029 | 0.271 |
| 100 | 14.567 | 34.974 | 26.047 | 0.291 |
| 110 | 14.352 | 34.962 | 26.084 | 0.311 |
| 120 | 14.197 | 34.964 | 26.119 | 0.330 |
| 130 | 13.834 | 34.913 | 26.156 | 0.349 |
| 140 | 13.189 | 34.842 | 26.233 | 0.368 |
| 150 | 13.032 | 34.888 | 26.300 | 0.386 |
| 160 | 13.018 | 34.886 | 26.302 | 0.403 |
| 170 | 12.992 | 34.887 | 26.308 | 0.421 |
| 180 | 12.957 | 34.888 | 26.315 | 0.438 |
| 190 | 12.895 | 34.898 | 26.336 | 0.456 |
| 200 | 12.803 | 34.895 | 26.352 | 0.473 |
| 250 | 11.927 | 34.841 | 26.480 | 0.555 |
| 300 | 11.045 | 34.786 | 26.601 | 0.634 |
| 301 | 10.939 | 34.792 | 26.625 | 0.635 |

CAST EP4-88-OC -036 DATE 06 NOV 88 TIME 1528 GMT
LAT 00 02.4N LONG 139 58.5W

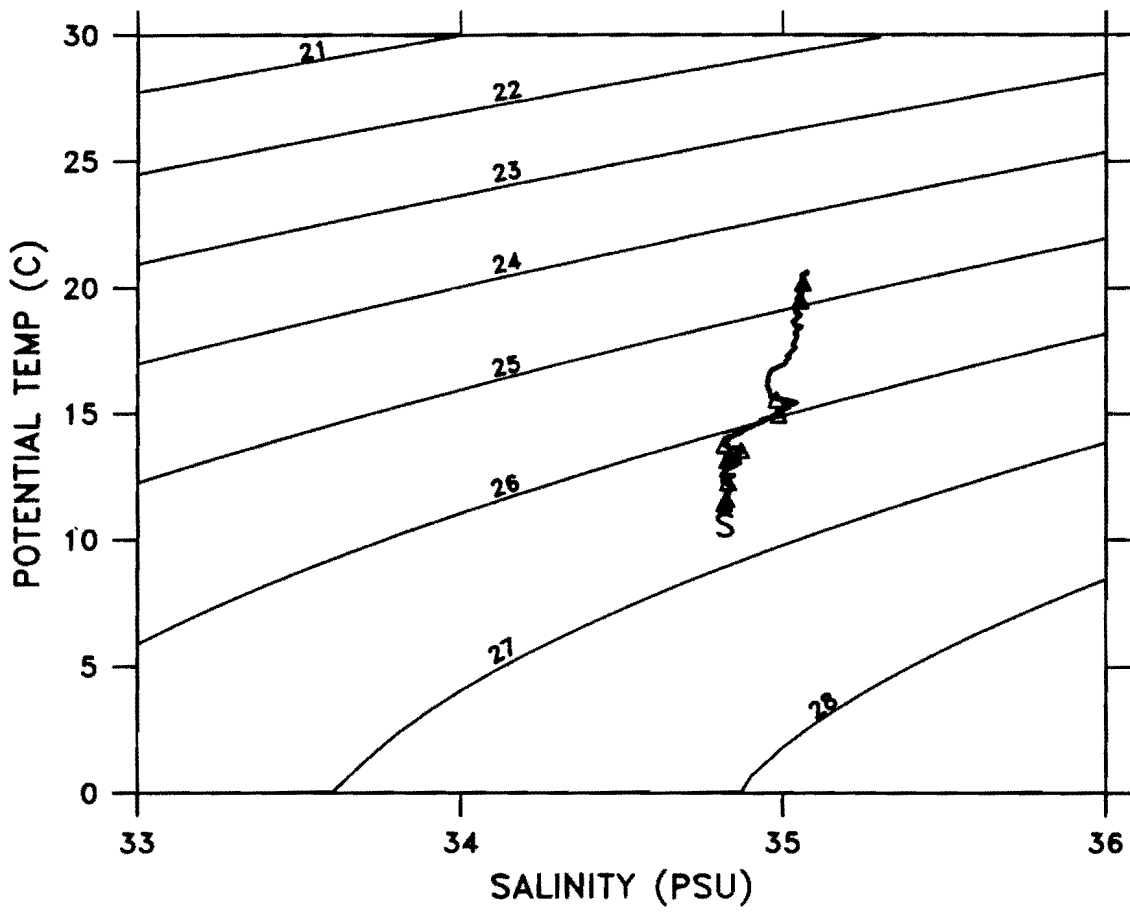


CAST EP4-88-OC -036 DATE 06 NOV 88 TIME 1528 GMT
 LAT 00 02.4N LONG 139 58.5W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 100 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 21.2 WET 20.6 DEPTH 4352 M

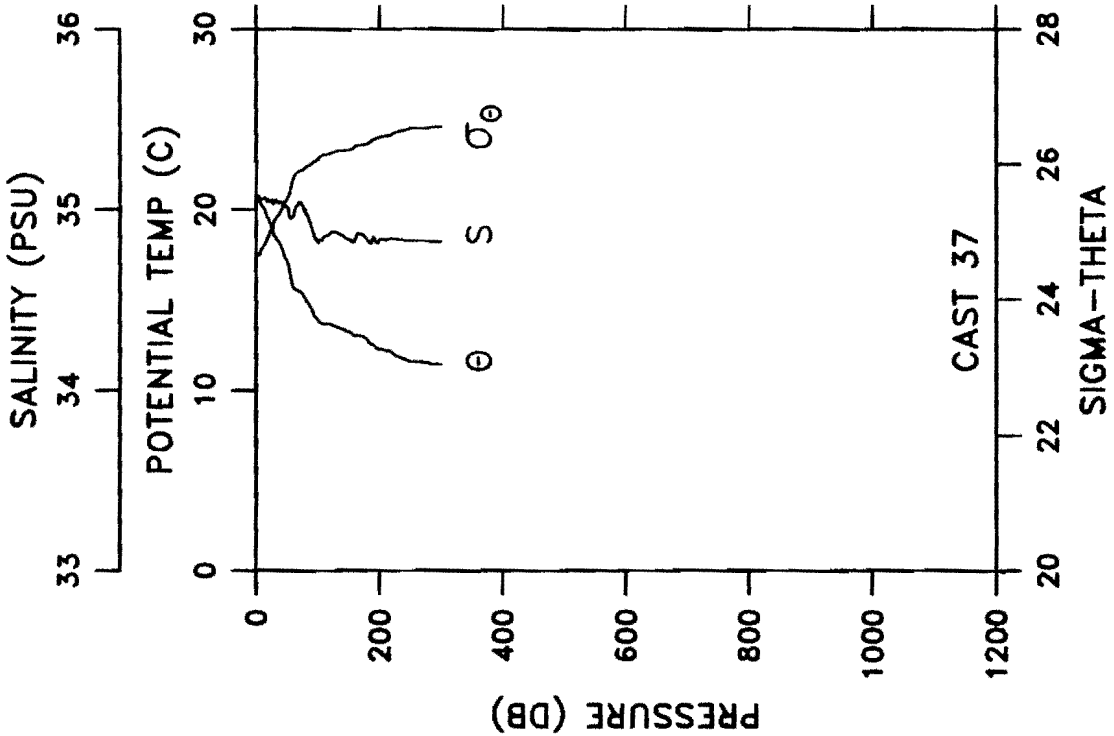


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.551 | 35.065 | 24.666 | 0.000 |
| 10 | 20.358 | 35.061 | 24.715 | 0.033 |
| 20 | 19.607 | 35.049 | 24.903 | 0.064 |
| 30 | 18.889 | 35.009 | 25.057 | 0.094 |
| 40 | 18.266 | 35.031 | 25.231 | 0.122 |
| 50 | 17.752 | 35.061 | 25.381 | 0.149 |
| 60 | 16.918 | 35.008 | 25.541 | 0.175 |
| 70 | 15.745 | 34.999 | 25.806 | 0.198 |
| 80 | 15.394 | 34.999 | 25.885 | 0.220 |
| 90 | 15.086 | 35.005 | 25.958 | 0.241 |
| 100 | 14.460 | 34.908 | 26.019 | 0.261 |
| 110 | 14.070 | 34.856 | 26.061 | 0.281 |
| 120 | 13.778 | 34.831 | 26.103 | 0.301 |
| 130 | 13.613 | 34.869 | 26.167 | 0.320 |
| 140 | 13.545 | 34.878 | 26.188 | 0.338 |
| 150 | 13.415 | 34.855 | 26.197 | 0.357 |
| 160 | 13.283 | 34.839 | 26.211 | 0.375 |
| 170 | 13.103 | 34.827 | 26.239 | 0.394 |
| 180 | 13.024 | 34.859 | 26.279 | 0.412 |
| 190 | 12.985 | 34.860 | 26.288 | 0.429 |
| 200 | 12.832 | 34.833 | 26.298 | 0.447 |
| 250 | 11.947 | 34.833 | 26.470 | 0.531 |
| 300 | 11.457 | 34.821 | 26.553 | 0.610 |
| 350 | 10.523 | 34.759 | 26.674 | 0.685 |
| 400 | 9.718 | 34.713 | 26.776 | 0.754 |
| 450 | 9.098 | 34.681 | 26.853 | 0.820 |
| 500 | 8.398 | 34.649 | 26.938 | 0.881 |
| 550 | 7.843 | 34.618 | 26.998 | 0.939 |
| 600 | 7.133 | 34.589 | 27.077 | 0.996 |
| 650 | 6.714 | 34.576 | 27.124 | 1.048 |
| 700 | 6.493 | 34.571 | 27.150 | 1.100 |
| 750 | 6.095 | 34.561 | 27.194 | 1.150 |
| 800 | 5.623 | 34.555 | 27.248 | 1.197 |
| 900 | 5.114 | 34.553 | 27.308 | 1.285 |
| 1000 | 4.769 | 34.555 | 27.349 | 1.371 |
| 1500 | 3.016 | 34.604 | 27.567 | 1.730 |
| 2000 | 2.224 | 34.638 | 27.663 | 2.015 |
| 2500 | 1.667 | 34.666 | 27.730 | 2.264 |
| 3000 | 1.434 | 34.676 | 27.755 | 2.494 |
| 3500 | 1.249 | 34.686 | 27.776 | 2.717 |
| 4000 | 1.099 | 34.695 | 27.793 | 2.933 |
| 4047 | 1.095 | 34.695 | 27.794 | 2.953 |

CAST EP4-88-OC -037 DATE 06 NOV 88 TIME 1852 GMT
LAT 00 01.9N LONG 139 56.8W

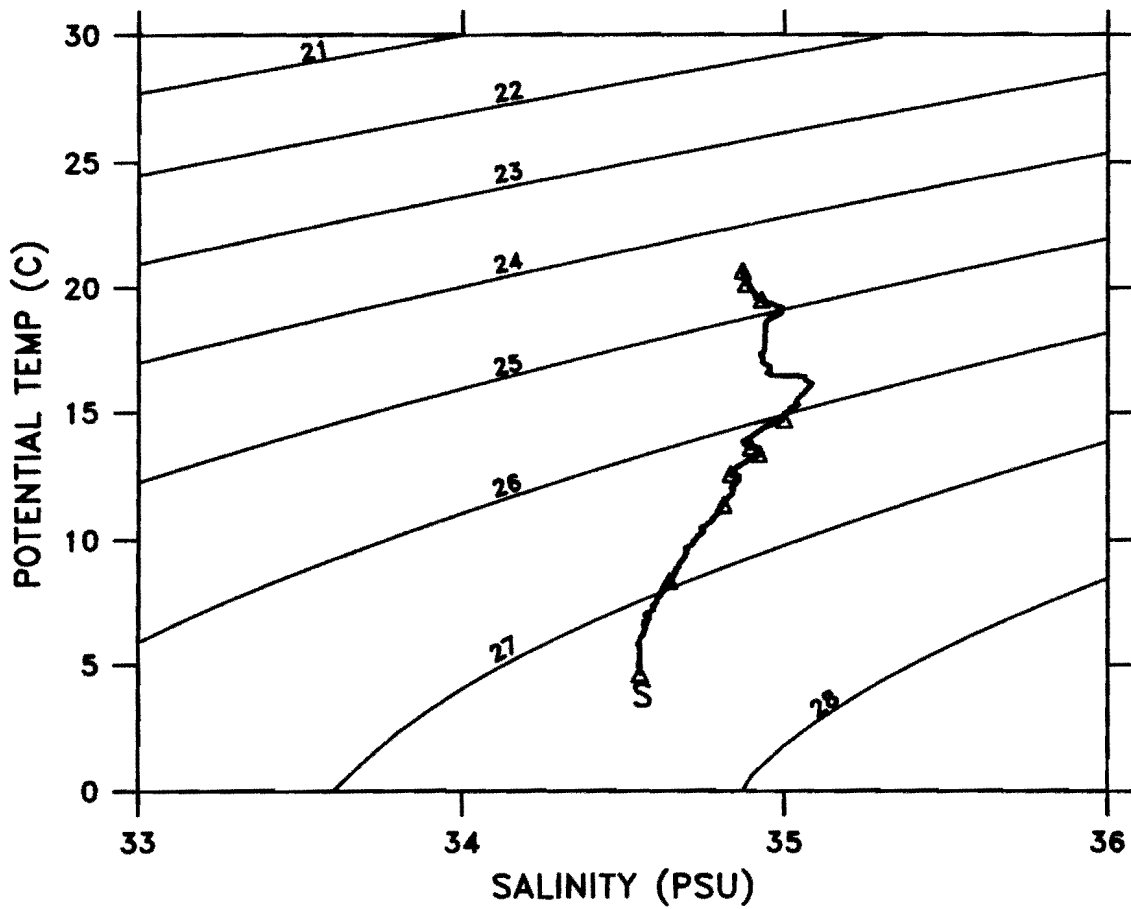


CAST EP4-88-0C -037 DATE 06 NOV 88 TIME 1852 GMT
 LAT 00 01.9N LONG 139 56.8W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 115 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 22.9 WET 21.9 DEPTH 4358 M

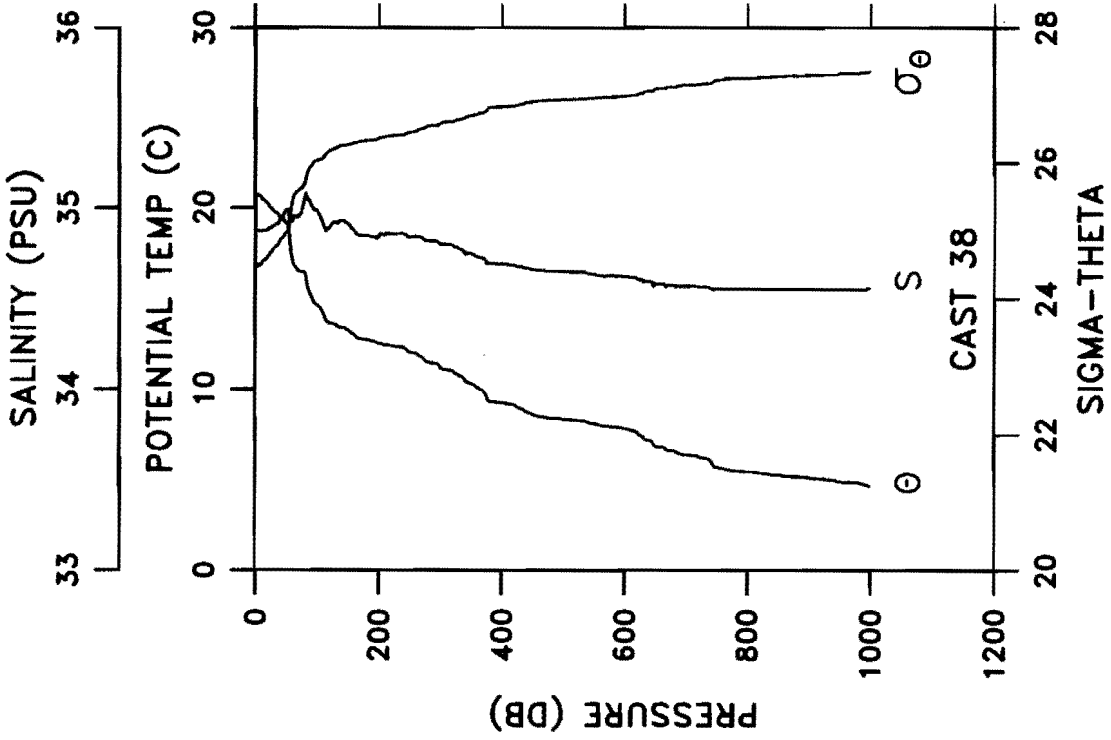


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.634 | 35.075 | 24.651 | 0.000 |
| 10 | 20.187 | 35.058 | 24.758 | 0.033 |
| 20 | 19.483 | 35.056 | 24.941 | 0.064 |
| 30 | 18.504 | 35.041 | 25.179 | 0.093 |
| 40 | 17.981 | 35.041 | 25.309 | 0.120 |
| 50 | 17.144 | 35.012 | 25.490 | 0.146 |
| 60 | 15.671 | 34.960 | 25.793 | 0.169 |
| 70 | 15.445 | 35.043 | 25.907 | 0.191 |
| 80 | 15.079 | 34.997 | 25.953 | 0.212 |
| 90 | 14.488 | 34.901 | 26.008 | 0.232 |
| 100 | 13.857 | 34.816 | 26.075 | 0.252 |
| 110 | 13.637 | 34.848 | 26.146 | 0.271 |
| 120 | 13.641 | 34.866 | 26.159 | 0.290 |
| 130 | 13.496 | 34.871 | 26.193 | 0.309 |
| 140 | 13.374 | 34.854 | 26.205 | 0.327 |
| 150 | 13.236 | 34.833 | 26.216 | 0.346 |
| 160 | 13.010 | 34.839 | 26.267 | 0.364 |
| 170 | 12.998 | 34.862 | 26.287 | 0.381 |
| 180 | 12.803 | 34.829 | 26.301 | 0.399 |
| 190 | 12.543 | 34.848 | 26.367 | 0.416 |
| 200 | 12.293 | 34.832 | 26.403 | 0.433 |
| 250 | 11.597 | 34.828 | 26.532 | 0.514 |
| 300 | 11.434 | 34.822 | 26.558 | 0.592 |
| 300 | 11.434 | 34.822 | 26.558 | 0.592 |

CAST EP4-88-OC -038 DATE 07 NOV 88 TIME 0819 GMT
LAT 00 01.6S LONG 142 59.5W



CAST EP4-88-OC -038 DATE 07 NOV 88 TIME 0819 GMT
 LAT 00 01.6S LONG 142 59.5W WEATHER 4 SEA STATE 3
 BAROMETER 13 WIND DIR 110 T SPD 06 KT VISIBILITY 6
 CLOUD X AMOUNT 9 DRY 20.8 WET 20.4 DEPTH 4377 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 20.711 | 34.872 | 24.476 | 0.000 |
| 10 | 20.566 | 34.871 | 24.515 | 0.034 |
| 20 | 20.222 | 34.876 | 24.610 | 0.068 |
| 30 | 19.831 | 34.902 | 24.733 | 0.101 |
| 40 | 19.458 | 34.931 | 24.852 | 0.132 |
| 50 | 19.201 | 34.993 | 24.965 | 0.163 |
| 60 | 17.121 | 34.934 | 25.435 | 0.191 |
| 70 | 16.508 | 34.952 | 25.594 | 0.216 |
| 80 | 16.431 | 35.062 | 25.697 | 0.240 |
| 90 | 15.181 | 35.017 | 25.946 | 0.261 |
| 100 | 14.646 | 34.984 | 26.037 | 0.281 |
| 110 | 14.179 | 34.912 | 26.082 | 0.301 |
| 120 | 13.629 | 34.892 | 26.182 | 0.320 |
| 130 | 13.553 | 34.923 | 26.222 | 0.339 |
| 140 | 13.405 | 34.929 | 26.257 | 0.357 |
| 150 | 13.274 | 34.913 | 26.271 | 0.375 |
| 160 | 13.002 | 34.874 | 26.295 | 0.392 |
| 170 | 12.776 | 34.848 | 26.320 | 0.410 |
| 180 | 12.725 | 34.846 | 26.329 | 0.427 |
| 190 | 12.656 | 34.836 | 26.335 | 0.445 |
| 200 | 12.517 | 34.836 | 26.362 | 0.462 |
| 250 | 12.036 | 34.835 | 26.454 | 0.545 |
| 300 | 11.184 | 34.787 | 26.585 | 0.624 |
| 350 | 10.315 | 34.748 | 26.701 | 0.698 |
| 400 | 9.282 | 34.690 | 26.830 | 0.765 |
| 450 | 8.599 | 34.656 | 26.913 | 0.829 |
| 500 | 8.353 | 34.647 | 26.943 | 0.889 |
| 550 | 8.119 | 34.631 | 26.966 | 0.949 |
| 600 | 7.856 | 34.620 | 26.997 | 1.007 |
| 650 | 6.893 | 34.580 | 27.103 | 1.063 |
| 700 | 6.393 | 34.568 | 27.161 | 1.115 |
| 750 | 5.708 | 34.554 | 27.237 | 1.164 |
| 800 | 5.454 | 34.552 | 27.267 | 1.210 |
| 900 | 5.132 | 34.551 | 27.304 | 1.298 |
| 1000 | 4.660 | 34.556 | 27.362 | 1.383 |
| 1002 | 4.658 | 34.555 | 27.362 | 1.385 |

CAST EP4-88-OC -001 LAT 10 30.8N LONG 109 18.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 28.073 | 33.239 | 28.073 | 21.049 |
| 17. | 27.447 | 33.229 | 27.443 | 21.245 |
| 38. | 27.202 | 33.353 | 27.193 | 21.418 |
| 57. | 23.021 | 34.417 | 23.010 | 23.490 |
| 77. | 18.013 | 34.650 | 18.000 | 25.005 |
| 97. | 15.303 | 34.728 | 15.288 | 25.699 |
| 121. | 13.652 | 34.782 | 13.635 | 26.095 |
| 147. | 12.317 | 34.776 | 12.298 | 26.358 |
| 196. | 11.691 | 34.757 | 11.666 | 26.464 |
| 295. | 10.519 | 34.712 | 10.484 | 26.644 |
| 495. | 7.748 | 34.558 | 7.698 | 26.972 |
| 996. | 4.373 | 34.563 | 4.295 | 27.408 |

CAST EP4-88-OC -004 LAT 07 00.4N LONG 109 43.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 27.003 | 33.016 | 27.003 | 21.225 |
| 17. | 27.009 | 33.018 | 27.005 | 21.226 |
| 38. | 27.154 | 33.266 | 27.145 | 21.368 |
| 56. | 25.321 | 34.294 | 25.309 | 22.716 |
| 77. | 21.698 | 34.786 | 21.683 | 24.145 |
| 95. | 16.405 | 34.717 | 16.390 | 25.441 |
| 121. | 13.419 | 34.848 | 13.402 | 26.194 |
| 145. | 12.684 | 34.838 | 12.664 | 26.335 |
| 197. | 11.826 | 34.786 | 11.801 | 26.461 |
| 295. | 10.781 | 34.740 | 10.745 | 26.619 |
| 495. | 7.841 | 34.609 | 7.791 | 26.998 |
| 994. | 4.413 | 34.566 | 4.335 | 27.406 |

CAST EP4-88-OC -002 LAT 09 00.0N LONG 109 26.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 27.613 | 32.979 | 27.613 | 21.003 |
| 17. | 27.447 | 33.003 | 27.443 | 21.075 |
| 36. | 27.212 | 34.344 | 27.204 | 22.161 |
| 57. | 21.681 | 34.808 | 21.670 | 24.165 |
| 77. | 18.624 | 34.717 | 18.611 | 24.905 |
| 97. | 15.012 | 34.741 | 14.997 | 25.774 |
| 121. | 13.219 | 34.797 | 13.202 | 26.195 |
| 147. | 12.331 | 34.784 | 12.312 | 26.362 |
| 197. | 11.559 | 34.760 | 11.534 | 26.491 |
| 294. | 10.537 | 34.719 | 10.502 | 26.646 |
| 494. | 8.120 | 34.601 | 8.069 | 26.950 |
| 995. | 4.449 | 34.564 | 4.370 | 27.400 |

CAST EP4-88-OC -005 LAT 05 01.6N LONG 110 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 8. | 25.969 | 34.857 | 25.967 | 22.938 |
| 495. | 7.835 | 34.610 | 7.785 | 27.000 |
| 994. | 4.598 | 34.563 | 4.518 | 27.383 |
| 1493. | 3.121 | 34.607 | 3.012 | 27.570 |
| 1996. | 2.236 | 34.644 | 2.096 | 27.679 |
| 2493. | 1.870 | 34.669 | 1.693 | 27.730 |
| 2738. | 1.826 | 34.672 | 1.627 | 27.738 |
| 2991. | 1.728 | 34.677 | 1.507 | 27.750 |
| 3241. | 1.593 | 34.685 | 1.351 | 27.768 |
| 3493. | 1.511 | 34.689 | 1.245 | 27.779 |
| 3797. | 1.474 | 34.693 | 1.178 | 27.787 |

CAST EP4-88-OC -003 LAT 07 59.4N LONG 109 35.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 27.346 | 32.833 | 27.346 | 20.979 |
| 16. | 27.331 | 32.906 | 27.327 | 21.039 |
| 38. | 27.688 | 34.019 | 27.679 | 21.763 |
| 57. | 22.679 | 34.756 | 22.668 | 23.845 |
| 76. | 19.897 | 34.752 | 19.883 | 24.605 |
| 97. | 14.865 | 34.748 | 14.850 | 25.811 |
| 121. | 12.868 | 34.785 | 12.852 | 26.257 |
| 147. | 12.116 | 34.772 | 12.097 | 26.394 |
| 196. | 11.418 | 34.752 | 11.393 | 26.511 |
| 296. | 10.381 | 34.715 | 10.346 | 26.670 |
| 494. | 8.121 | 34.601 | 8.070 | 26.950 |
| 998. | 4.488 | 34.568 | 4.409 | 27.399 |

CAST EP4-88-OC -006 LAT 05 02.3N LONG 110 00.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 25.944 | 33.679 | 25.944 | 22.056 |
| 8. | 25.941 | 33.681 | 25.939 | 22.059 |
| 17. | 25.911 | 33.691 | 25.907 | 22.077 |
| 37. | 25.541 | 33.760 | 25.533 | 22.244 |
| 57. | 24.273 | 34.059 | 24.261 | 22.854 |
| 76. | 21.539 | 34.442 | 21.524 | 23.927 |
| 97. | 19.836 | 34.711 | 19.818 | 24.590 |
| 121. | 15.003 | 34.795 | 14.985 | 25.818 |
| 147. | 13.006 | 34.858 | 12.986 | 26.286 |
| 196. | 11.697 | 34.779 | 11.672 | 26.480 |
| 247. | 11.040 | 34.746 | 11.010 | 26.576 |
| 298. | 10.169 | 34.707 | 10.134 | 26.701 |

CAST EP4-88-OC -007 LAT 03 59.6N LONG 110 00.2W
 CAST EP4-88-OC -010 LAT 01 57.6N LONG 110 06.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 1. | 26.018 | 33.718 | 26.018 | 22.063 | 0. | 24.225 | 34.068 | 24.225 | 22.871 |
| 18. | 26.013 | 33.713 | 26.009 | 22.062 | 8. | 24.213 | 34.066 | 24.211 | 22.874 |
| 37. | 24.464 | 34.047 | 24.456 | 22.786 | 17. | 24.213 | 34.066 | 24.209 | 22.874 |
| 56. | 23.601 | 34.177 | 23.589 | 23.141 | 36. | 22.929 | 34.283 | 22.922 | 23.414 |
| 76. | 21.885 | 34.533 | 21.870 | 23.901 | 57. | 15.612 | 34.907 | 15.603 | 25.767 |
| 97. | 16.930 | 34.792 | 16.914 | 25.376 | 77. | 14.050 | 34.954 | 14.039 | 26.144 |
| 121. | 13.736 | 34.915 | 13.719 | 26.181 | 96. | 13.571 | 34.936 | 13.557 | 26.231 |
| 145. | 13.209 | 34.893 | 13.189 | 26.273 | 122. | 12.942 | 34.904 | 12.925 | 26.334 |
| 196. | 12.502 | 34.867 | 12.476 | 26.394 | 146. | 12.674 | 34.890 | 12.654 | 26.377 |
| 295. | 11.031 | 34.754 | 10.995 | 26.585 | 196. | 12.404 | 34.876 | 12.378 | 26.420 |
| 494. | 7.998 | 34.620 | 7.947 | 26.984 | 246. | 11.987 | 34.841 | 11.955 | 26.475 |
| 996. | 4.573 | 34.561 | 4.493 | 27.384 | 298. | 10.614 | 34.750 | 10.578 | 26.657 |

CAST EP4-88-OC -008 LAT 03 00.0N LONG 110 00.3W
 CAST EP4-88-OC -011 LAT 01 29.7N LONG 110 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 0. | 24.795 | 33.899 | 24.795 | 22.573 | 0. | 23.921 | 34.119 | 23.921 | 23.000 |
| 18. | 24.799 | 33.898 | 24.795 | 22.572 | 18. | 23.915 | 34.115 | 23.911 | 22.999 |
| 37. | 24.790 | 33.927 | 24.782 | 22.598 | 37. | 19.689 | 33.978 | 19.682 | 24.066 |
| 57. | 21.765 | 34.462 | 21.754 | 23.879 | 58. | 16.035 | 34.891 | 16.026 | 25.659 |
| 77. | 19.361 | 34.756 | 19.347 | 24.747 | 77. | 13.961 | 34.955 | 13.950 | 26.164 |
| 97. | 15.062 | 34.939 | 15.047 | 25.915 | 96. | 13.484 | 34.928 | 13.471 | 26.242 |
| 122. | 13.919 | 34.933 | 13.902 | 26.157 | 122. | 12.910 | 34.903 | 12.893 | 26.340 |
| 146. | 13.585 | 34.935 | 13.564 | 26.228 | 147. | 12.608 | 34.888 | 12.588 | 26.389 |
| 198. | 12.918 | 34.896 | 12.891 | 26.335 | 198. | 12.533 | 34.884 | 12.507 | 26.402 |
| 296. | 11.220 | 34.774 | 11.183 | 26.567 | 296. | 11.655 | 34.820 | 11.617 | 26.522 |
| 495. | 7.677 | 34.603 | 7.627 | 27.017 | 495. | 8.162 | 34.635 | 8.111 | 26.971 |
| 998. | 4.685 | 34.558 | 4.604 | 27.370 | 1006. | 4.393 | 34.564 | 4.314 | 27.406 |

CAST EP4-88-OC -009 LAT 02 00.5N LONG 110 08.9W
 CAST EP4-88-OC -012 LAT 00 59.6N LONG 110 00.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 57. | 16.295 | 34.876 | 16.286 | 25.587 | 0. | 23.646 | 34.145 | 23.646 | 23.100 |
| 495. | 8.184 | 34.636 | 8.133 | 26.968 | 17. | 23.625 | 34.143 | 23.621 | 23.105 |
| 994. | 4.542 | 34.564 | 4.463 | 27.390 | 37. | 18.324 | 34.736 | 18.318 | 24.992 |
| 1493. | 3.082 | 34.613 | 2.974 | 27.579 | 57. | 16.146 | 34.890 | 16.137 | 25.632 |
| 1990. | 2.329 | 34.643 | 2.188 | 27.671 | 77. | 13.800 | 34.948 | 13.789 | 26.192 |
| 2491. | 1.814 | 34.671 | 1.638 | 27.736 | 97. | 13.046 | 34.911 | 13.033 | 26.318 |
| 2992. | 1.681 | 34.677 | 1.461 | 27.754 | 121. | 12.784 | 34.895 | 12.768 | 26.359 |
| 3242. | 1.585 | 34.681 | 1.343 | 27.766 | 146. | 12.719 | 34.892 | 12.699 | 26.370 |
| 3492. | 1.506 | 34.689 | 1.240 | 27.779 | 196. | 12.438 | 34.877 | 12.412 | 26.415 |
| 3724. | 1.483 | 34.691 | 1.194 | 27.784 | 294. | 11.552 | 34.811 | 11.514 | 26.534 |
| 3792. | 1.486 | 34.691 | 1.190 | 27.784 | 495. | 8.217 | 34.635 | 8.165 | 26.963 |

CAST EP4-88-OC -013 LAT 00 29.6N LONG 110 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 21.841 | 34.405 | 21.841 | 23.812 |
| 18. | 21.415 | 34.481 | 21.412 | 23.988 |
| 37. | 17.462 | 34.797 | 17.456 | 25.250 |
| 58. | 15.042 | 34.943 | 15.033 | 25.921 |
| 77. | 13.796 | 34.937 | 13.785 | 26.184 |
| 96. | 13.479 | 34.915 | 13.466 | 26.233 |
| 121. | 13.267 | 34.904 | 13.250 | 26.269 |
| 146. | 13.256 | 34.903 | 13.236 | 26.271 |
| 195. | 12.836 | 34.896 | 12.809 | 26.351 |
| 294. | 11.585 | 34.816 | 11.547 | 26.532 |
| 495. | 7.914 | 34.623 | 7.864 | 26.998 |
| 996. | 4.465 | 34.560 | 4.386 | 27.395 |

CAST EP4-88-OC -014 LAT 00 30.1S LONG 110 00.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 20.337 | 34.610 | 20.337 | 24.377 |
| 18. | 18.674 | 34.745 | 18.671 | 24.911 |
| 37. | 14.736 | 34.875 | 14.730 | 25.935 |
| 59. | 14.403 | 34.957 | 14.394 | 26.071 |
| 78. | 14.156 | 34.967 | 14.145 | 26.132 |
| 98. | 13.851 | 34.950 | 13.837 | 26.183 |
| 120. | 13.481 | 34.933 | 13.464 | 26.247 |
| 146. | 13.276 | 34.923 | 13.256 | 26.282 |
| 196. | 12.618 | 34.891 | 12.592 | 26.390 |
| 297. | 10.817 | 34.778 | 10.781 | 26.643 |
| 495. | 7.714 | 34.614 | 7.664 | 27.021 |
| 998. | 4.368 | 34.580 | 4.290 | 27.422 |

CAST EP4-88-OC -015 LAT 00 01.3S LONG 110 10.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 55. | 14.118 | 34.869 | 14.110 | 26.063 |
| 495. | 7.703 | 34.614 | 7.653 | 27.022 |
| 997. | 4.453 | 34.562 | 4.374 | 27.398 |
| 1491. | 3.072 | 34.606 | 2.964 | 27.574 |
| 1991. | 2.271 | 34.646 | 2.131 | 27.678 |
| 2492. | 1.900 | 34.664 | 1.722 | 27.724 |
| 2991. | 1.699 | 34.677 | 1.479 | 27.753 |
| 3233. | 1.586 | 34.683 | 1.345 | 27.767 |
| 3492. | 1.537 | 34.689 | 1.271 | 27.777 |
| 3591. | 1.466 | 34.693 | 1.191 | 27.786 |
| 3694. | 1.450 | 34.694 | 1.165 | 27.788 |

CAST EP4-88-OC -016 LAT 00 00.6S LONG 110 11.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 20.164 | 34.599 | 20.164 | 24.414 |
| 7. | 19.964 | 34.610 | 19.963 | 24.475 |
| 18. | 18.771 | 34.690 | 18.768 | 24.844 |
| 37. | 16.751 | 34.845 | 16.745 | 25.456 |
| 57. | 14.227 | 34.885 | 14.219 | 26.053 |
| 77. | 13.935 | 34.863 | 13.924 | 26.098 |
| 97. | 13.670 | 34.871 | 13.656 | 26.160 |
| 122. | 13.398 | 34.892 | 13.381 | 26.233 |
| 146. | 13.406 | 34.916 | 13.386 | 26.250 |
| 196. | 12.729 | 34.895 | 12.702 | 26.371 |
| 246. | 12.111 | 34.859 | 12.079 | 26.465 |
| 298. | 10.882 | 34.780 | 10.845 | 26.633 |

CAST EP4-88-OC -017 LAT 01 00.4S LONG 109 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 20.166 | 34.666 | 20.166 | 24.465 |
| 17. | 19.067 | 34.722 | 19.064 | 24.794 |
| 37. | 17.164 | 34.873 | 17.158 | 25.380 |
| 58. | 15.149 | 35.136 | 15.140 | 26.047 |
| 78. | 14.039 | 35.010 | 14.028 | 26.190 |
| 97. | 13.505 | 34.943 | 13.491 | 26.250 |
| 121. | 13.234 | 34.928 | 13.217 | 26.294 |
| 146. | 12.985 | 34.908 | 12.965 | 26.329 |
| 196. | 12.614 | 34.895 | 12.588 | 26.394 |
| 295. | 11.050 | 34.794 | 11.013 | 26.613 |
| 496. | 7.793 | 34.618 | 7.743 | 27.012 |
| 996. | 4.351 | 34.562 | 4.273 | 27.409 |

CAST EP4-88-OC -018 LAT 01 29.4S LONG 109 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 20.351 | 34.840 | 20.351 | 24.548 |
| 18. | 19.961 | 34.816 | 19.958 | 24.634 |
| 37. | 18.842 | 34.925 | 18.835 | 25.007 |
| 57. | 15.985 | 35.210 | 15.976 | 25.916 |
| 77. | 13.942 | 35.029 | 13.931 | 26.225 |
| 97. | 13.136 | 34.928 | 13.123 | 26.313 |
| 122. | 12.930 | 34.907 | 12.913 | 26.339 |
| 146. | 12.705 | 34.893 | 12.685 | 26.373 |
| 196. | 12.253 | 34.871 | 12.227 | 26.446 |
| 296. | 11.138 | 34.805 | 11.101 | 26.606 |
| 495. | 8.051 | 34.629 | 8.000 | 26.983 |

CAST EP4-88-OC -019 LAT 04 58.55 LONG 109 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 22.462 | 34.951 | 22.462 | 24.052 |
| 8. | 22.456 | 34.952 | 22.454 | 24.055 |
| 18. | 22.449 | 34.950 | 22.445 | 24.056 |
| 37. | 22.152 | 34.978 | 22.145 | 24.162 |
| 58. | 18.699 | 35.484 | 18.689 | 25.472 |
| 78. | 15.081 | 35.115 | 15.069 | 26.046 |
| 96. | 13.468 | 34.950 | 13.455 | 26.263 |
| 123. | 13.082 | 34.927 | 13.065 | 26.324 |
| 146. | 12.872 | 34.914 | 12.852 | 26.356 |
| 198. | 12.477 | 34.886 | 12.451 | 26.414 |
| 247. | 12.308 | 34.878 | 12.275 | 26.442 |
| 296. | 11.874 | 34.858 | 11.836 | 26.511 |

CAST EP4-88-OC -020 LAT 05 00.65 LONG 109 57.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 27. | 22.453 | 34.952 | 22.448 | 24.057 |
| 494. | 8.700 | 34.672 | 8.647 | 26.918 |
| 1002. | 4.487 | 34.547 | 4.407 | 27.383 |
| 1491. | 3.041 | 34.602 | 2.933 | 27.574 |
| 1741. | 2.554 | 34.624 | 2.431 | 27.635 |
| 1991. | 2.309 | 34.639 | 2.169 | 27.669 |
| 2241. | 2.123 | 34.652 | 1.964 | 27.696 |
| 2481. | 1.922 | 34.662 | 1.744 | 27.721 |
| 2743. | 1.797 | 34.673 | 1.598 | 27.741 |
| 2997. | 1.708 | 34.677 | 1.487 | 27.752 |
| 3244. | 1.584 | 34.684 | 1.342 | 27.768 |

CAST EP4-88-OC -021 LAT 04 00.25 LONG 110 04.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 21.843 | 34.969 | 21.843 | 24.240 |
| 17. | 21.833 | 34.968 | 21.830 | 24.243 |
| 36. | 21.722 | 34.969 | 21.715 | 24.275 |
| 57. | 15.619 | 34.992 | 15.610 | 25.831 |
| 77. | 14.431 | 34.979 | 14.420 | 26.082 |
| 97. | 13.720 | 34.960 | 13.706 | 26.218 |
| 122. | 13.020 | 34.922 | 13.003 | 26.332 |
| 145. | 12.829 | 34.907 | 12.809 | 26.360 |
| 195. | 12.672 | 34.897 | 12.645 | 26.384 |
| 295. | 11.936 | 34.868 | 11.898 | 26.507 |
| 495. | 8.389 | 34.655 | 8.337 | 26.952 |
| 994. | 4.548 | 34.546 | 4.469 | 27.375 |

CAST EP4-88-OC -022 LAT 02 59.9S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 21.488 | 35.022 | 21.488 | 24.378 |
| 18. | 21.259 | 35.014 | 21.256 | 24.436 |
| 37. | 16.967 | 34.982 | 16.961 | 25.511 |
| 58. | 14.029 | 34.976 | 14.021 | 26.165 |
| 77. | 13.829 | 34.966 | 13.818 | 26.200 |
| 97. | 13.467 | 34.948 | 13.453 | 26.261 |
| 122. | 13.039 | 34.925 | 13.022 | 26.331 |
| 147. | 12.843 | 34.907 | 12.823 | 26.357 |
| 196. | 12.559 | 34.897 | 12.533 | 26.406 |
| 298. | 11.667 | 34.845 | 11.629 | 26.539 |
| 498. | 8.089 | 34.632 | 8.038 | 26.979 |
| 998. | 4.627 | 34.558 | 4.547 | 27.376 |

CAST EP4-88-OC -023 LAT 02 01.6S LONG 110 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 27. | 19.752 | 34.951 | 19.747 | 24.792 |
| 495. | 8.135 | 34.630 | 8.084 | 26.971 |
| 993. | 4.599 | 34.555 | 4.519 | 27.377 |
| 1493. | 3.230 | 34.600 | 3.120 | 27.555 |
| 1994. | 2.384 | 34.640 | 2.242 | 27.664 |
| 2492. | 1.928 | 34.662 | 1.750 | 27.720 |
| 2742. | 1.777 | 34.669 | 1.579 | 27.739 |
| 2992. | 1.625 | 34.677 | 1.406 | 27.758 |
| 3241. | 1.580 | 34.681 | 1.338 | 27.766 |
| 3492. | 1.509 | 34.687 | 1.243 | 27.777 |
| 3794. | 1.457 | 34.692 | 1.161 | 27.787 |

CAST EP4-88-OC -024 LAT 02 02.7S LONG 109 58.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 20.947 | 34.927 | 20.947 | 24.454 |
| 7. | 20.877 | 34.923 | 20.876 | 24.470 |
| 18. | 20.232 | 34.906 | 20.229 | 24.631 |
| 37. | 17.927 | 35.035 | 17.921 | 25.319 |
| 56. | 14.772 | 35.047 | 14.764 | 26.061 |
| 77. | 13.649 | 34.980 | 13.638 | 26.248 |
| 97. | 13.084 | 34.929 | 13.071 | 26.324 |
| 121. | 13.084 | 34.939 | 13.071 | 26.332 |
| 147. | 12.762 | 34.895 | 12.746 | 26.363 |
| 196. | 12.671 | 34.891 | 12.651 | 26.378 |
| 247. | 12.395 | 34.877 | 12.369 | 26.423 |
| 297. | 12.040 | 34.856 | 12.017 | 26.475 |

CAST EP4-88-OC -025 LAT 00 59.1N LONG 113 01.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|---------|
| 495. | 8.297 | 34.641* | 8.245* | 26.955* |
| 994. | 4.594 | 34.554* | 4.514* | 27.377* |
| 1491. | 3.054 | 34.607* | 2.946* | 27.576* |
| 1993. | 2.282 | 34.643* | 2.142* | 27.674* |
| 2495. | 1.827 | 34.668* | 1.650* | 27.733* |
| 2741. | 1.750 | 34.675* | 1.552* | 27.746* |
| 2992. | 1.685 | 34.677* | 1.465* | 27.754* |
| 3240. | 1.603 | 34.681* | 1.360* | 27.764* |
| 3493. | 1.510 | 34.689* | 1.244* | 27.779* |
| 3781. | 1.456 | 34.694* | 1.162* | 27.789* |
| 3780. | 1.456 | 34.694* | 1.162* | 27.789* |

CAST EP4-88-OC -028 LAT 00 00.0N LONG 120 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 27. | 19.791 | 34.809 | 19.786 | 24.673 |
| 496. | 8.018 | 34.620 | 7.967 | 26.981 |
| 993. | 4.675 | 34.557 | 4.595 | 27.370 |
| 1493. | 3.129 | 34.602 | 3.020 | 27.566 |
| 1992. | 2.387 | 34.640 | 2.245 | 27.663 |
| 2491. | 1.912 | 34.663 | 1.734 | 27.722 |
| 2992. | 1.694 | 34.677 | 1.474 | 27.753 |
| 3242. | 1.594 | 34.681 | 1.352 | 27.765 |
| 3492. | 1.527 | 34.687 | 1.261 | 27.776 |
| 3741. | 1.428 | 34.700 | 1.139 | 27.795 |
| 4044. | 1.446 | 34.701 | 1.124 | 27.797 |

CAST EP4-88-OC -026 LAT 00 00.1S LONG 114 58.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|---------|
| 28. | 18.278 | 34.787* | 18.273* | 25.042* |
| 499. | 7.952 | 34.626* | 7.901* | 26.995* |
| 995. | 4.659 | 34.556* | 4.579* | 27.371* |
| 1494. | 3.065 | 34.605* | 2.957* | 27.574* |
| 1992. | 2.265 | 34.645* | 2.125* | 27.677* |
| 2491. | 1.844 | 34.668* | 1.667* | 27.731* |
| 2992. | 1.671 | 34.677* | 1.451* | 27.755* |
| 3242. | 1.588 | 34.683* | 1.346* | 27.767* |
| 3492. | 1.519 | 34.690* | 1.253* | 27.779* |
| 3742. | 1.436 | 34.694* | 1.146* | 27.790* |
| 3917. | 1.449 | 34.695* | 1.140* | 27.791* |

CAST EP4-88-OC -029 LAT 00 00.3S LONG 120 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 22.159 | 34.522 | 22.159 | 23.812 |
| 7. | 22.050 | 34.530 | 22.049 | 23.849 |
| 16. | 21.538 | 34.590 | 21.535 | 24.037 |
| 37. | 16.941 | 34.809 | 16.935 | 25.384 |
| 58. | 14.354 | 34.799 | 14.346 | 25.959 |
| 77. | 13.797 | 34.838 | 13.786 | 26.107 |
| 98. | 13.379 | 34.857 | 13.365 | 26.209 |
| 121. | 12.814 | 34.876 | 12.798 | 26.338 |
| 146. | 12.740 | 34.878 | 12.720 | 26.355 |
| 197. | 12.542 | 34.878 | 12.516 | 26.395 |
| 242. | 11.909 | 34.846 | 11.878 | 26.493 |
| 297. | 11.151 | 34.803 | 11.114 | 26.602 |

CAST EP4-88-OC -027 LAT 00 00.7S LONG 114 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|---------|
| 1. | 19.644 | 34.730* | 19.644* | 24.650* |
| 8. | 19.469 | 34.719* | 19.468* | 24.688* |
| 17. | 19.015 | 34.747* | 19.012* | 24.826* |
| 37. | 16.641 | 34.832* | 16.635* | 25.472* |
| 56. | 14.527 | 34.878* | 14.519* | 25.983* |
| 77. | 13.993 | 34.896* | 13.982* | 26.111* |
| 97. | 13.253 | 34.905* | 13.240* | 26.272* |
| 121. | 13.199 | 34.923* | 13.182* | 26.297* |
| 148. | 13.026 | 34.909* | 13.006* | 26.322* |
| 197. | 12.490 | 34.884* | 12.464* | 26.410* |
| 246. | 11.660 | 34.838* | 11.628* | 26.534* |
| 297. | 10.976 | 34.779* | 10.939* | 26.615* |

CAST EP4-88-OC -030 LAT 00 07.0N LONG 124 25.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 27. | 18.579 | 34.697 | 18.574 | 24.898 |
| 495. | 8.149 | 34.633 | 8.098 | 26.971 |
| 994. | 4.654 | 34.556 | 4.574 | 27.372 |
| 1492. | 3.222 | 34.598 | 3.112 | 27.554 |
| 1995. | 2.431 | 34.636 | 2.288 | 27.657 |
| 2492. | 1.907 | 34.664 | 1.729 | 27.724 |
| 2992. | 1.724 | 34.674 | 1.503 | 27.748 |
| 3492. | 1.526 | 34.688 | 1.260 | 27.777 |
| 3742. | 1.430 | 34.693 | 1.140 | 27.789 |
| 3990. | 1.437 | 34.694 | 1.121 | 27.791 |
| 4393. | 1.482 | 34.694 | 1.120 | 27.791 |

* Calculated from CTD values

CAST EP4-88-OC -034 LAT 00 00.6S LONG 134 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 25. | 20.347 | 34.851 | 20.342 | 24.559 | | | | | |
| 496. | 8.080 | 34.627 | 8.029 | 26.977 | | | | | |
| 993. | 4.583 | 34.556 | 4.503 | 27.379 | | | | | |
| 1493. | 3.002 | 34.606 | 2.895 | 27.580 | | | | | |
| 1992. | 2.410 | 34.634 | 2.268 | 27.657 | | | | | |
| 2492. | 1.720 | 34.662 | 1.720 | 27.723 | | | | | |
| 2992. | 1.677 | 34.674 | 1.457 | 27.752 | | | | | |
| 3240. | 1.651 | 34.676 | 1.407 | 27.757 | | | | | |
| 3491. | 1.516 | 34.686 | 1.250 | 27.776 | | | | | |
| 3741. | 1.417 | 34.692 | 1.128 | 27.789 | | | | | |
| 4194. | 1.441 | 34.693 | 1.102 | 27.792 | | | | | |

CAST EP4-88-OC -035 LAT 00 00.5S LONG 135 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 1. | 21.773 | 34.736 | 21.773 | 24.082 | | | | | |
| 8. | 21.702 | 34.747 | 21.701 | 24.110 | | | | | |
| 17. | 20.969 | 34.792 | 20.966 | 24.346 | | | | | |
| 37. | 19.744 | 35.062 | 19.737 | 24.879 | | | | | |
| 56. | 18.214 | 35.092 | 18.204 | 25.293 | | | | | |
| 78. | 15.257 | 35.039 | 15.245 | 25.949 | | | | | |
| 96. | 14.517 | 34.962 | 14.503 | 26.052 | | | | | |
| 121. | 14.011 | 34.941 | 13.994 | 26.144 | | | | | |
| 147. | 13.061 | 34.883 | 13.041 | 26.295 | | | | | |
| 196. | 12.835 | 34.889 | 12.808 | 26.346 | | | | | |
| 245. | 11.965 | 34.837 | 11.933 | 26.476 | | | | | |
| 302. | 10.949 | 34.790 | 10.912 | 26.628 | | | | | |

CAST EP4-88-OC -036 LAT 00 02.4N LONG 139 58.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 28. | 18.521 | 35.039 | 18.516 | 25.175 | | | | | |
| 495. | 8.526 | 34.650 | 8.473 | 26.927 | | | | | |
| 997. | 4.937 | 34.550 | 4.854 | 27.335 | | | | | |
| 1493. | 3.264 | 34.595 | 3.154 | 27.548 | | | | | |
| 1995. | 2.383 | 34.636 | 2.241 | 27.661 | | | | | |
| 2493. | 1.921 | 34.662 | 1.743 | 27.721 | | | | | |
| 2992. | 1.673 | 34.675 | 1.453 | 27.753 | | | | | |
| 3241. | 1.587 | 34.681 | 1.345 | 27.765 | | | | | |
| 3492. | 1.518 | 34.685 | 1.252 | 27.775 | | | | | |
| 3742. | 1.428 | 34.693 | 1.139 | 27.789 | | | | | |
| 4017. | 1.416 | 34.695 | 1.097 | 27.794 | | | | | |

CAST EP4-88-OC -031 LAT 00 07.1N LONG 124 26.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 2. | 21.617 | 34.517 | 21.617 | 23.959 | | | | | |
| 7. | 20.911 | 34.554 | 20.910 | 24.180 | | | | | |
| 17. | 19.881 | 34.614 | 19.878 | 24.501 | | | | | |
| 38. | 16.554 | 34.795 | 16.548 | 25.464 | | | | | |
| 57. | 13.971 | 34.807 | 13.963 | 26.046 | | | | | |
| 77. | 13.773 | 34.815 | 13.762 | 26.095 | | | | | |
| 97. | 13.546 | 34.850 | 13.532 | 26.169 | | | | | |
| 123. | 15.368 | 34.898 | 15.349 | 25.817 | | | | | |
| 146. | 13.388 | 34.883 | 13.368 | 26.228 | | | | | |
| 196. | 12.507 | 34.874 | 12.481 | 26.399 | | | | | |
| 247. | 12.048 | 34.852 | 12.016 | 26.472 | | | | | |
| 297. | 11.197 | 34.800 | 11.160 | 26.591 | | | | | |

CAST EP4-88-OC -032 LAT 00 00.4N LONG 129 59.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 27. | 19.434 | 34.893 | 19.429 | 24.830 | | | | | |
| 496. | 7.934 | 34.619 | 7.883 | 26.992 | | | | | |
| 994. | 4.741 | 34.552 | 4.660 | 27.359 | | | | | |
| 1492. | 3.140 | 34.595 | 3.031 | 27.559 | | | | | |
| 1992. | 2.312 | 34.637 | 2.171 | 27.667 | | | | | |
| 2492. | 1.904 | 34.658 | 1.726 | 27.719 | | | | | |
| 2992. | 1.705 | 34.674 | 1.484 | 27.750 | | | | | |
| 3241. | 1.625 | 34.678 | 1.382 | 27.760 | | | | | |
| 3492. | 1.526 | 34.686 | 1.260 | 27.775 | | | | | |
| 3742. | 1.410 | 34.693 | 1.121 | 27.791 | | | | | |
| 3993. | 1.429 | 34.694 | 1.113 | 27.792 | | | | | |

CAST EP4-88-OC -033 LAT 00 01.4N LONG 129 57.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 1. | 20.642 | 34.877 | 20.642 | 24.498 | | | | | |
| 8. | 20.610 | 34.876 | 20.609 | 24.507 | | | | | |
| 17. | 20.039 | 34.886 | 20.036 | 24.667 | | | | | |
| 37. | 18.606 | 34.900 | 18.599 | 25.047 | | | | | |
| 56. | 17.285 | 34.890 | 17.276 | 25.365 | | | | | |
| 77. | 14.112 | 34.793 | 14.101 | 26.007 | | | | | |
| 97. | 13.617 | 34.783 | 13.603 | 26.103 | | | | | |
| 121. | 12.997 | 34.803 | 12.980 | 26.245 | | | | | |
| 147. | 12.820 | 34.848 | 12.800 | 26.316 | | | | | |
| 197. | 12.252 | 34.849 | 12.226 | 26.429 | | | | | |
| 246. | 11.809 | 34.833 | 11.777 | 26.502 | | | | | |
| 296. | 10.913 | 34.770 | 10.877 | 26.619 | | | | | |

CAS1 EP4-88-OC -037 LAT 00 01.9N LONG 139 56.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|--------------|-------------|--------------|----------|--------|
| 1. | 20.703 | 35.069 | 20.703 | 24.628 |
| 7. | 20.203 | 35.062 | 20.202 | 24.757 |
| 17. | 19.503 | 35.054 | 19.500 | 24.935 |
| 37. | 17.942 | 35.034 | 17.936 | 25.315 |
| 57. | 15.579 | 34.980 | 15.570 | 25.831 |
| 78. | 14.957 | 34.986 | 14.945 | 25.974 |
| 98. | 13.762 | 34.818 | 13.748 | 26.100 |
| 121. | 13.545 | 34.870 | 13.528 | 26.186 |
| 148. | 13.179 | 34.827 | 13.158 | 26.228 |
| 197. | 12.303 | 34.830 | 12.277 | 26.404 |
| 247. | 11.622 | 34.824 | 11.590 | 26.530 |
| 297. | 11.470 | 34.818 | 11.432 | 26.555 |

CAS1 EP4-88-OC -038 LAT 00 01.6S LONG 142 59.5W

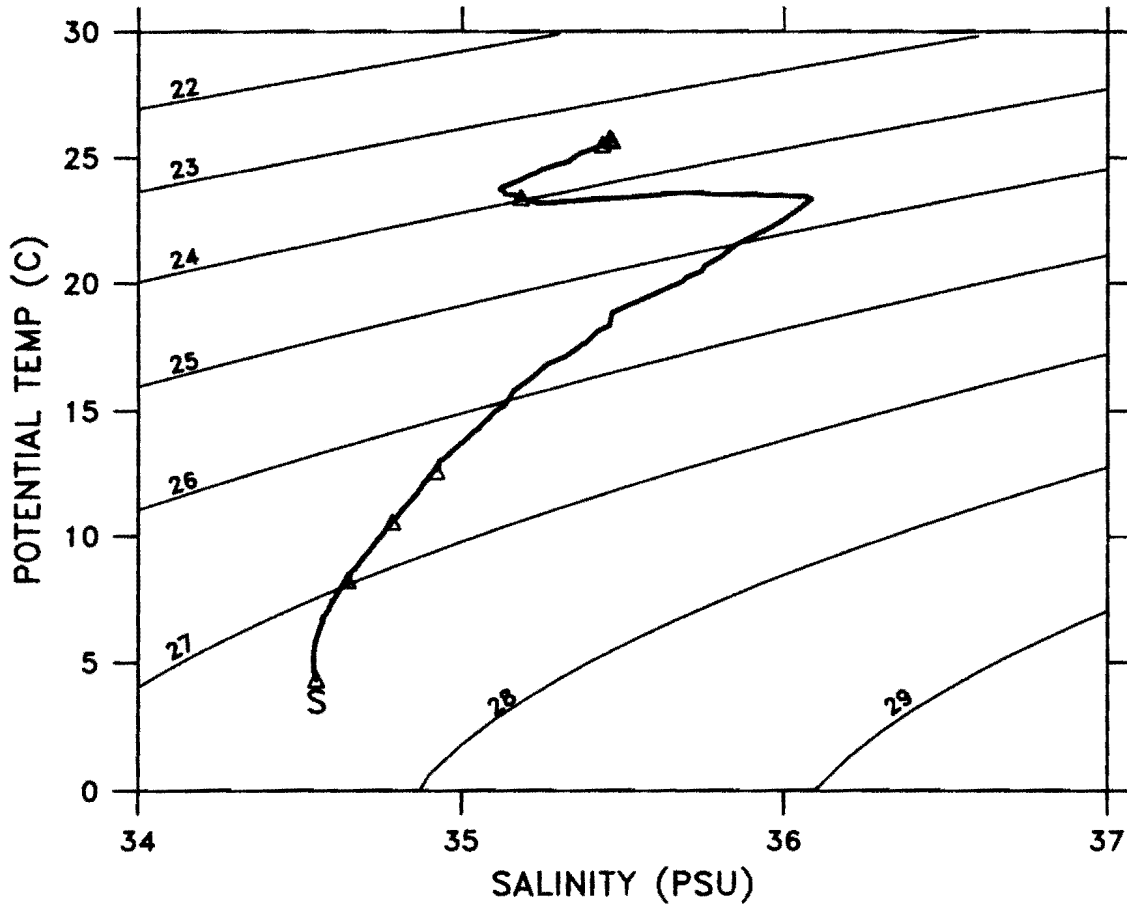
| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|--------------|-------------|--------------|----------|--------|
| 2. | 20.671 | 34.870 | 20.671 | 24.485 |
| 16. | 20.145 | 34.881 | 20.142 | 24.635 |
| 37. | 19.515 | 34.929 | 19.508 | 24.837 |
| 56. | 17.536 | 34.976 | 17.527 | 25.370 |
| 77. | 16.466 | 35.004 | 16.454 | 25.647 |
| 96. | 14.732 | 34.998 | 14.718 | 26.033 |
| 122. | 13.643 | 34.895 | 13.626 | 26.185 |
| 147. | 13.379 | 34.920 | 13.358 | 26.259 |
| 196. | 12.605 | 34.833 | 12.579 | 26.348 |
| 294. | 11.412 | 34.811 | 11.375 | 26.560 |
| 496. | 8.399 | 34.643 | 8.347 | 26.941 |
| 1002. | 4.712 | 34.552 | 4.631 | 27.362 |

EP5-88-OC

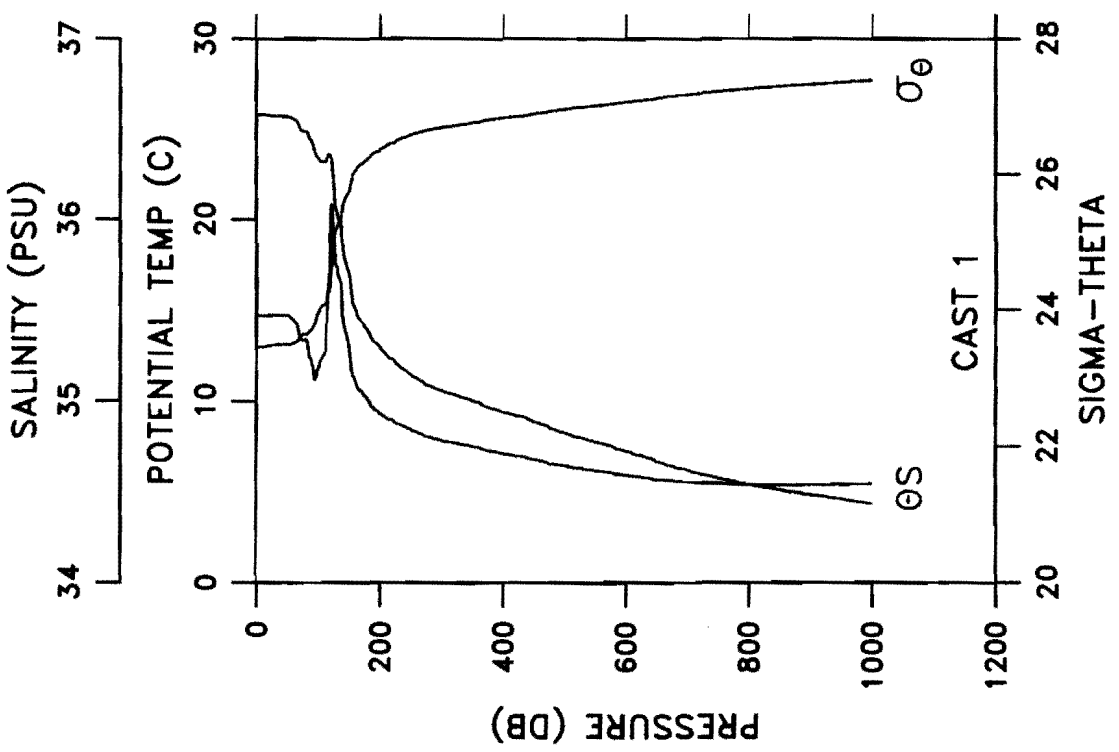
November 14–December 11, 1988

CTD and Hydrographic Data Summary

CAST EP5-88-OC -001 DATE 18 NOV 88 TIME 0621 GMT
LAT 05 00.0S LONG 140 00.3W

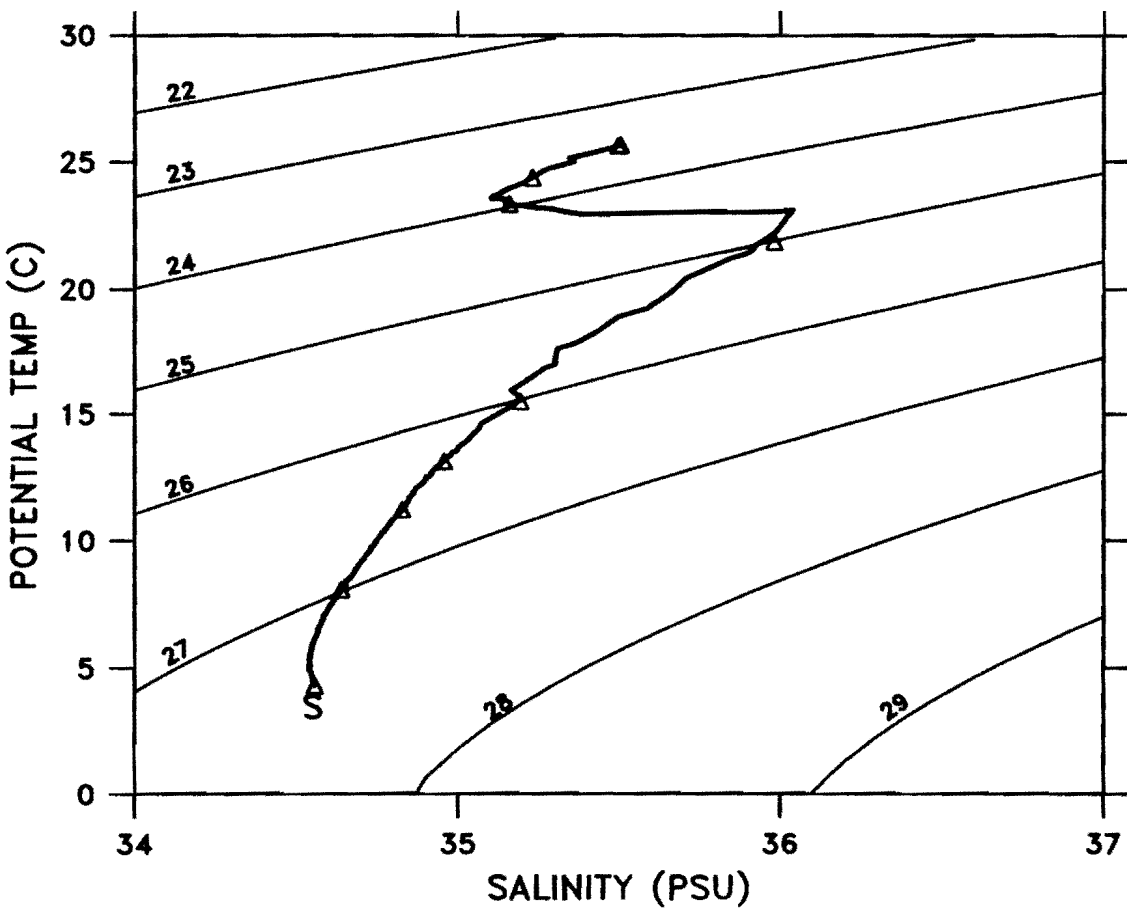


CAST EP5-88-OC -001 DATE 18 NOV 88 TIME 0621 GMT
 LAT 05 00.05 LONG 140 00.3W WEATHER 2 SEA STATE 4
 BAROMETER 15 WIND DIR 095 T SPD 15 KT VISIBILITY 8
 CLOUD 9 AMOUNT 8 DRY 24.8 WET 23.0 DEPTH 4292 M

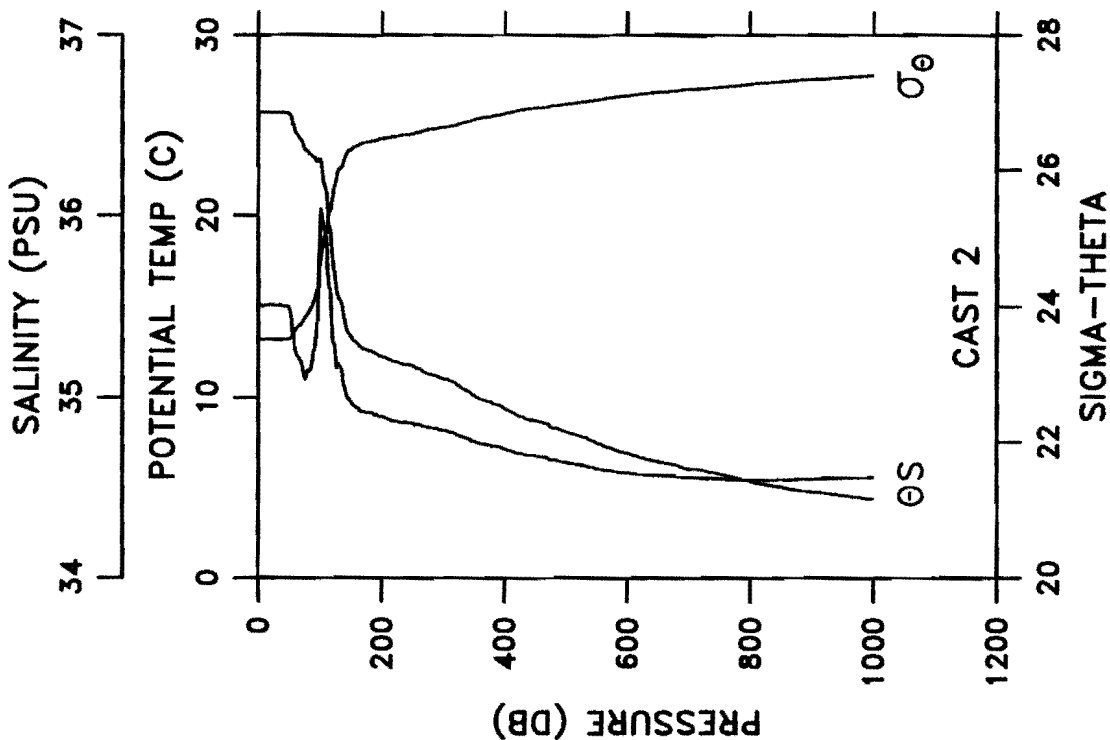


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 25.791 | 35.465 | 23.451 | 0.000 |
| 10 | 25.792 | 35.465 | 23.450 | 0.044 |
| 20 | 25.749 | 35.467 | 23.466 | 0.089 |
| 30 | 25.703 | 35.469 | 23.481 | 0.133 |
| 40 | 25.693 | 35.469 | 23.485 | 0.177 |
| 50 | 25.680 | 35.469 | 23.488 | 0.221 |
| 60 | 25.552 | 35.443 | 23.509 | 0.265 |
| 70 | 25.053 | 35.351 | 23.592 | 0.309 |
| 80 | 24.854 | 35.333 | 23.639 | 0.352 |
| 90 | 24.286 | 35.206 | 23.714 | 0.394 |
| 100 | 23.399 | 35.176 | 23.953 | 0.435 |
| 110 | 23.192 | 35.256 | 24.074 | 0.474 |
| 120 | 23.505 | 35.920 | 24.486 | 0.512 |
| 130 | 20.467 | 35.744 | 25.207 | 0.543 |
| 140 | 18.326 | 35.468 | 25.543 | 0.570 |
| 150 | 16.985 | 35.294 | 25.745 | 0.594 |
| 160 | 15.071 | 35.114 | 26.045 | 0.615 |
| 170 | 14.345 | 35.054 | 26.156 | 0.634 |
| 180 | 13.922 | 35.017 | 26.218 | 0.653 |
| 190 | 13.267 | 34.959 | 26.308 | 0.671 |
| 200 | 12.895 | 34.925 | 26.356 | 0.688 |
| 250 | 11.458 | 34.844 | 26.571 | 0.769 |
| 300 | 10.554 | 34.784 | 26.687 | 0.842 |
| 350 | 10.016 | 34.749 | 26.754 | 0.911 |
| 400 | 9.397 | 34.712 | 26.828 | 0.978 |
| 450 | 8.868 | 34.681 | 26.889 | 1.042 |
| 500 | 8.260 | 34.646 | 26.957 | 1.102 |
| 550 | 7.768 | 34.617 | 27.008 | 1.161 |
| 600 | 7.255 | 34.593 | 27.063 | 1.217 |
| 650 | 6.681 | 34.569 | 27.123 | 1.270 |
| 700 | 6.231 | 34.558 | 27.174 | 1.320 |
| 750 | 5.780 | 34.546 | 27.222 | 1.369 |
| 800 | 5.442 | 34.542 | 27.260 | 1.415 |
| 900 | 4.845 | 34.541 | 27.330 | 1.502 |
| 1000 | 4.367 | 34.548 | 27.388 | 1.584 |
| 1007 | 4.338 | 34.548 | 27.391 | 1.589 |

CAST EP5-88-OC -002 DATE 18 NOV 88 TIME 1151 GMT
LAT 03 59.0S LONG 140 00.7W

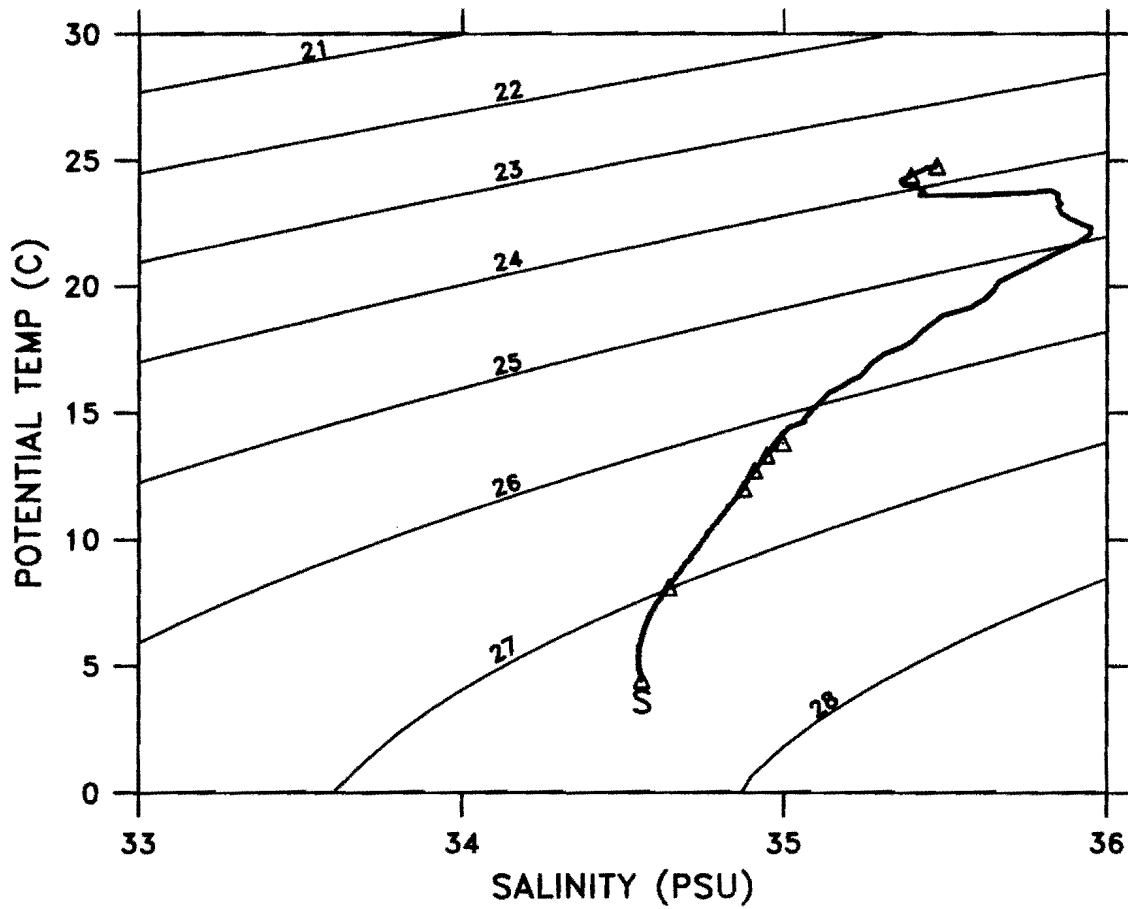


CAST EPS-88-OC -002 DATE 18 NOV 88 TIME 1151 GMT
 LAT 03 59.0S LONG 140 00.7W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DHR 080 T SPD 16 KT VISIBILITY 7
 CLOUD X AMOUNT 4 DRY 24.6 WET 23.3 DEPTH 4493 M

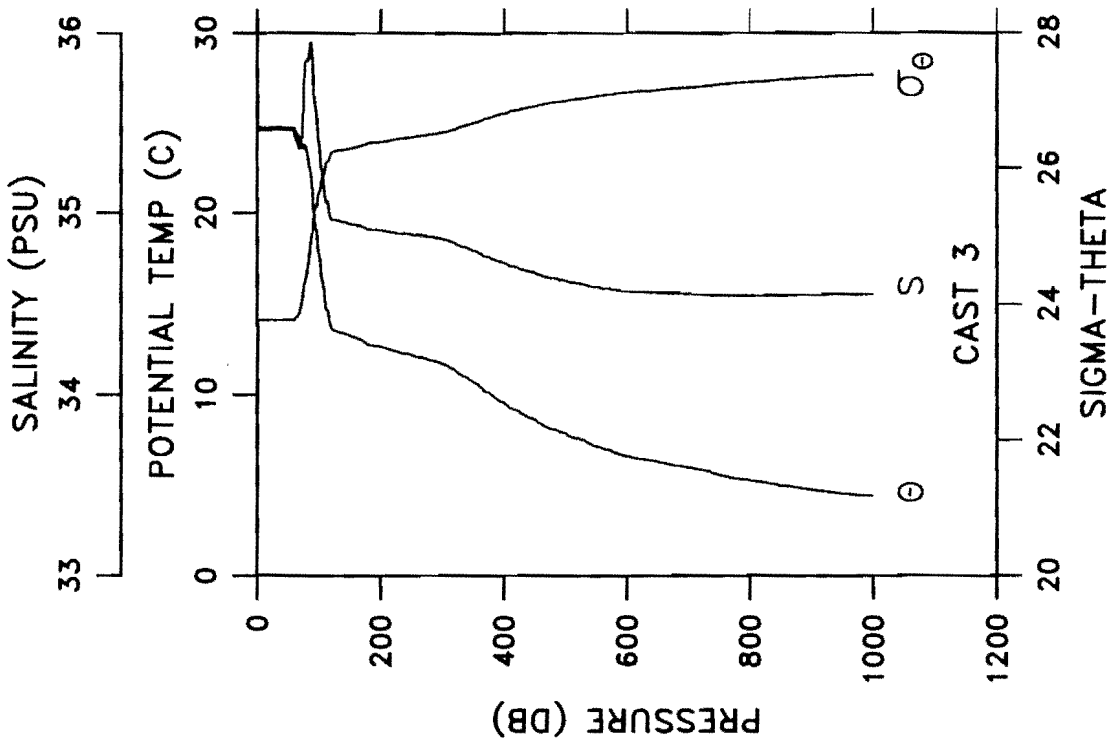


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 25.669 | 35.509 | 23.522 | 0.000 |
| 10 | 25.668 | 35.508 | 23.522 | 0.044 |
| 20 | 25.666 | 35.509 | 23.523 | 0.087 |
| 30 | 25.667 | 35.507 | 23.521 | 0.131 |
| 40 | 25.658 | 35.504 | 23.522 | 0.175 |
| 50 | 25.615 | 35.495 | 23.529 | 0.218 |
| 60 | 24.592 | 35.257 | 23.661 | 0.262 |
| 70 | 24.091 | 35.187 | 23.758 | 0.304 |
| 80 | 23.530 | 35.151 | 23.896 | 0.345 |
| 90 | 23.186 | 35.258 | 24.077 | 0.384 |
| 100 | 23.029 | 35.949 | 24.847 | 0.421 |
| 110 | 21.327 | 35.878 | 25.074 | 0.452 |
| 120 | 17.794 | 35.361 | 25.601 | 0.478 |
| 130 | 15.509 | 35.185 | 26.002 | 0.501 |
| 140 | 14.256 | 35.051 | 26.173 | 0.520 |
| 150 | 13.389 | 34.978 | 26.297 | 0.538 |
| 160 | 13.013 | 34.944 | 26.348 | 0.556 |
| 170 | 12.698 | 34.920 | 26.392 | 0.573 |
| 180 | 12.605 | 34.916 | 26.407 | 0.589 |
| 190 | 12.460 | 34.904 | 26.426 | 0.606 |
| 200 | 12.285 | 34.893 | 26.452 | 0.622 |
| 250 | 11.780 | 34.856 | 26.519 | 0.702 |
| 300 | 11.051 | 34.817 | 26.624 | 0.778 |
| 350 | 10.153 | 34.758 | 26.737 | 0.850 |
| 400 | 9.396 | 34.714 | 26.830 | 0.917 |
| 450 | 8.718 | 34.674 | 26.908 | 0.979 |
| 500 | 8.096 | 34.639 | 26.976 | 1.039 |
| 550 | 7.460 | 34.603 | 27.041 | 1.096 |
| 600 | 6.909 | 34.582 | 27.102 | 1.150 |
| 650 | 6.423 | 34.585 | 27.155 | 1.201 |
| 700 | 6.026 | 34.553 | 27.196 | 1.250 |
| 750 | 5.744 | 34.546 | 27.226 | 1.298 |
| 800 | 5.334 | 34.540 | 27.271 | 1.344 |
| 900 | 4.725 | 34.545 | 27.346 | 1.429 |
| 1000 | 4.322 | 34.554 | 27.398 | 1.510 |
| 1003 | 4.317 | 34.554 | 27.398 | 1.512 |

CAST EP5-88-OC -003 DATE 18 NOV 88 TIME 1723 GMT
LAT 02 59.8S LONG 139 59.9W

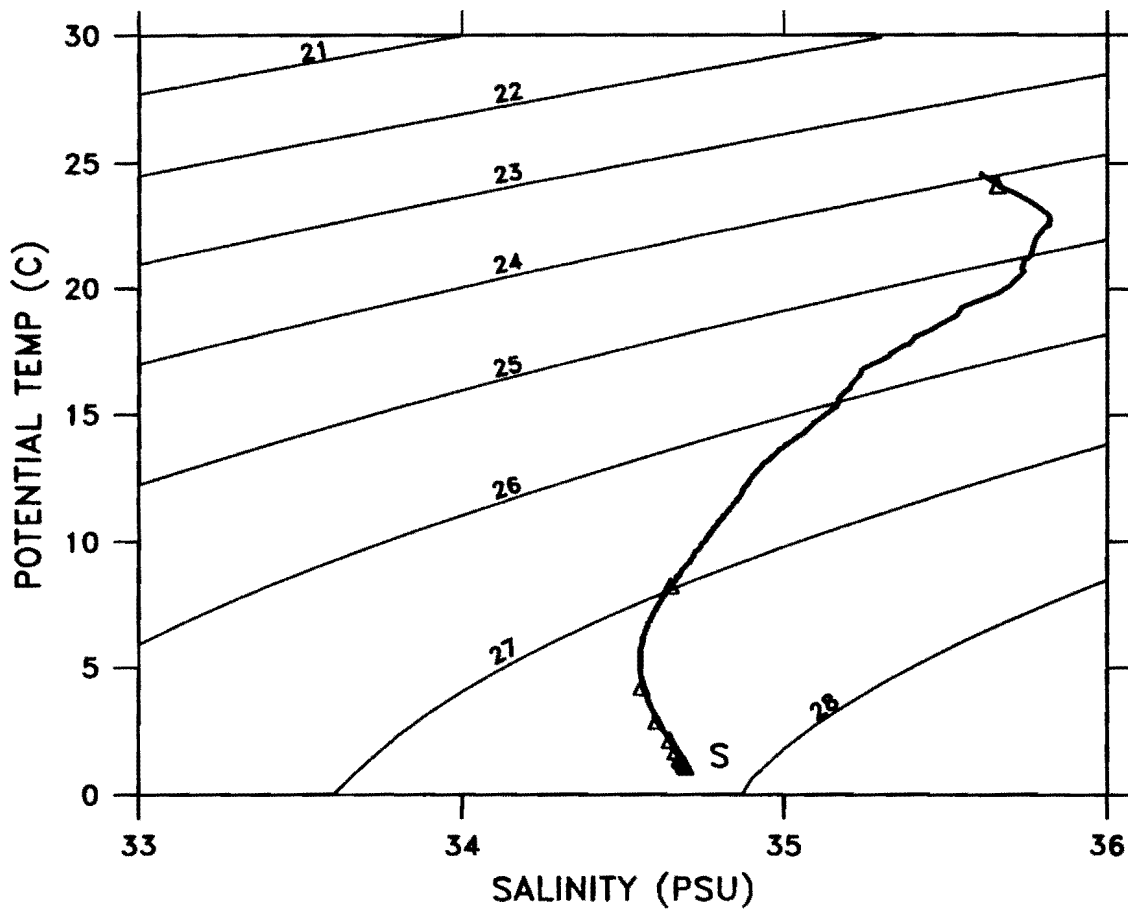


CAST EPS-88-0C -003 DATE 18 NOV 88 TIME 1723 GMT
 LAT 02 59.8S LONG 139 59.9W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 095 T SPD 20 KT VISIBILITY 7
 CLOUD 3 AMOUNT 2 DRY 24.0 WET 22.0 DEPTH 4444 M

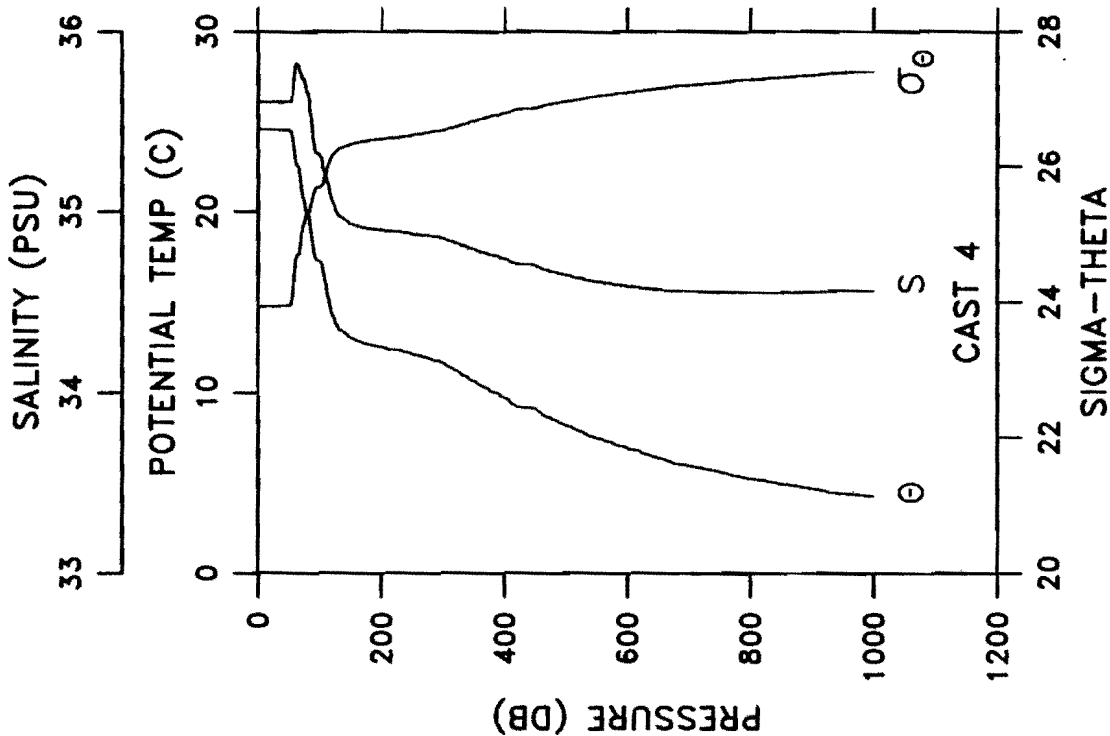


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.742 | 35.465 | 23.773 | 0.000 |
| 10 | 24.765 | 35.463 | 23.765 | 0.041 |
| 20 | 24.765 | 35.464 | 23.765 | 0.083 |
| 30 | 24.767 | 35.466 | 23.766 | 0.124 |
| 40 | 24.770 | 35.466 | 23.765 | 0.165 |
| 50 | 24.767 | 35.466 | 23.766 | 0.207 |
| 60 | 24.705 | 35.440 | 23.765 | 0.248 |
| 70 | 23.984 | 35.395 | 23.947 | 0.289 |
| 80 | 23.448 | 35.844 | 24.446 | 0.327 |
| 90 | 21.198 | 35.828 | 25.072 | 0.359 |
| 100 | 17.708 | 35.386 | 25.641 | 0.384 |
| 110 | 15.137 | 35.090 | 26.012 | 0.407 |
| 120 | 13.692 | 34.966 | 26.226 | 0.426 |
| 130 | 13.491 | 34.958 | 26.261 | 0.444 |
| 140 | 13.410 | 34.951 | 26.272 | 0.462 |
| 150 | 13.282 | 34.940 | 26.290 | 0.479 |
| 160 | 13.174 | 34.936 | 26.309 | 0.497 |
| 170 | 13.024 | 34.924 | 26.330 | 0.514 |
| 180 | 12.761 | 34.910 | 26.371 | 0.531 |
| 190 | 12.721 | 34.907 | 26.377 | 0.548 |
| 200 | 12.664 | 34.904 | 26.386 | 0.565 |
| 250 | 12.233 | 34.882 | 26.453 | 0.648 |
| 300 | 11.741 | 34.857 | 26.528 | 0.728 |
| 350 | 10.711 | 34.793 | 26.667 | 0.804 |
| 400 | 9.588 | 34.729 | 26.810 | 0.873 |
| 450 | 8.670 | 34.675 | 26.917 | 0.936 |
| 500 | 7.906 | 34.631 | 26.998 | 0.995 |
| 550 | 7.184 | 34.593 | 27.073 | 1.050 |
| 600 | 6.655 | 34.574 | 27.130 | 1.102 |
| 650 | 6.354 | 34.564 | 27.163 | 1.153 |
| 700 | 6.023 | 34.558 | 27.201 | 1.201 |
| 750 | 5.623 | 34.549 | 27.244 | 1.248 |
| 800 | 5.315 | 34.549 | 27.281 | 1.293 |
| 900 | 4.781 | 34.553 | 27.346 | 1.379 |
| 1000 | 4.437 | 34.556 | 27.387 | 1.459 |
| 1009 | 4.430 | 34.558 | 27.389 | 1.466 |

CAST EP5-88-OC -004 DATE 19 NOV 88 TIME 0558 GMT
LAT 01 59.2S LONG 139 59.2W

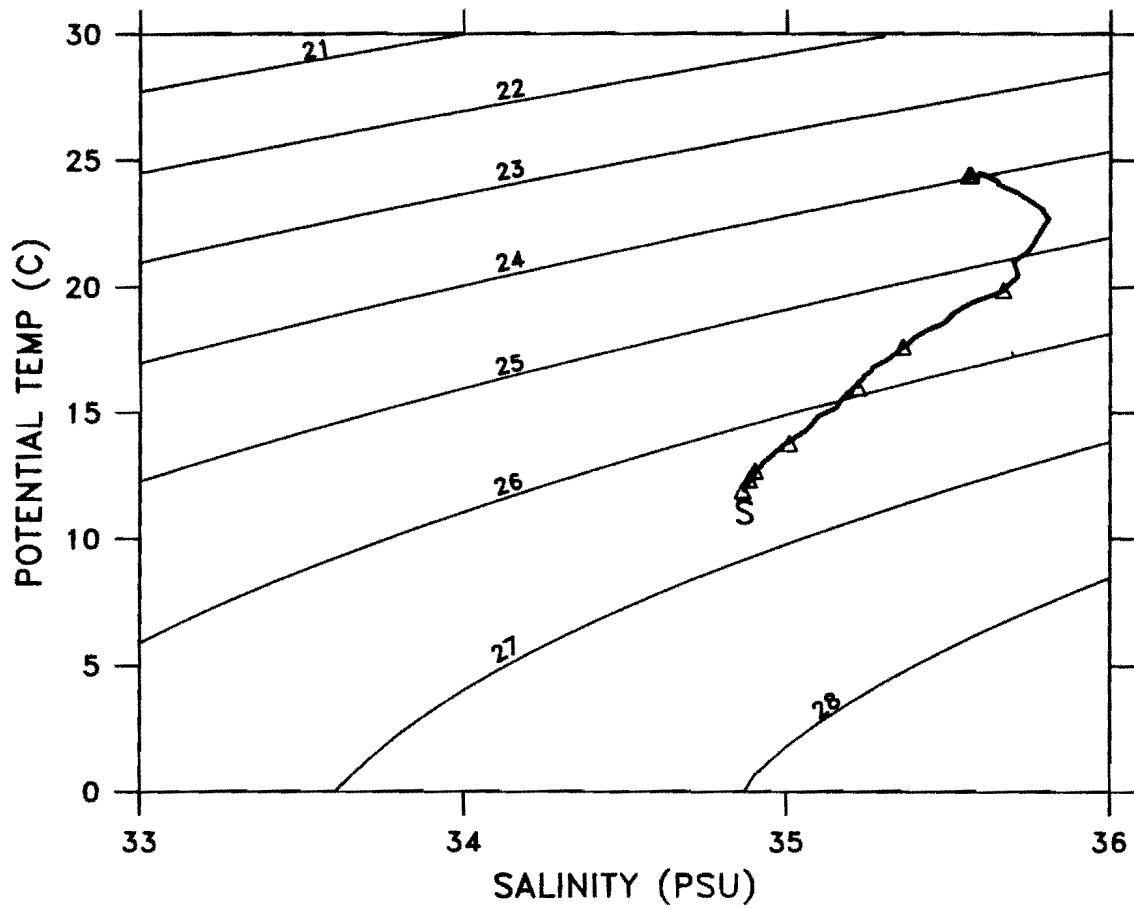


CAST EPS-88-OC -004 DATE 19 NOV 88 TIME 0558 GMT
 LAT 01 59.2S LONG 139 59.2W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DIR 090 T SPD 20 KT VISIBILITY 8
 CLOUD 9 AMOUNT 8 DRY 23.1 WET 21.6 DEPTH 4261 M

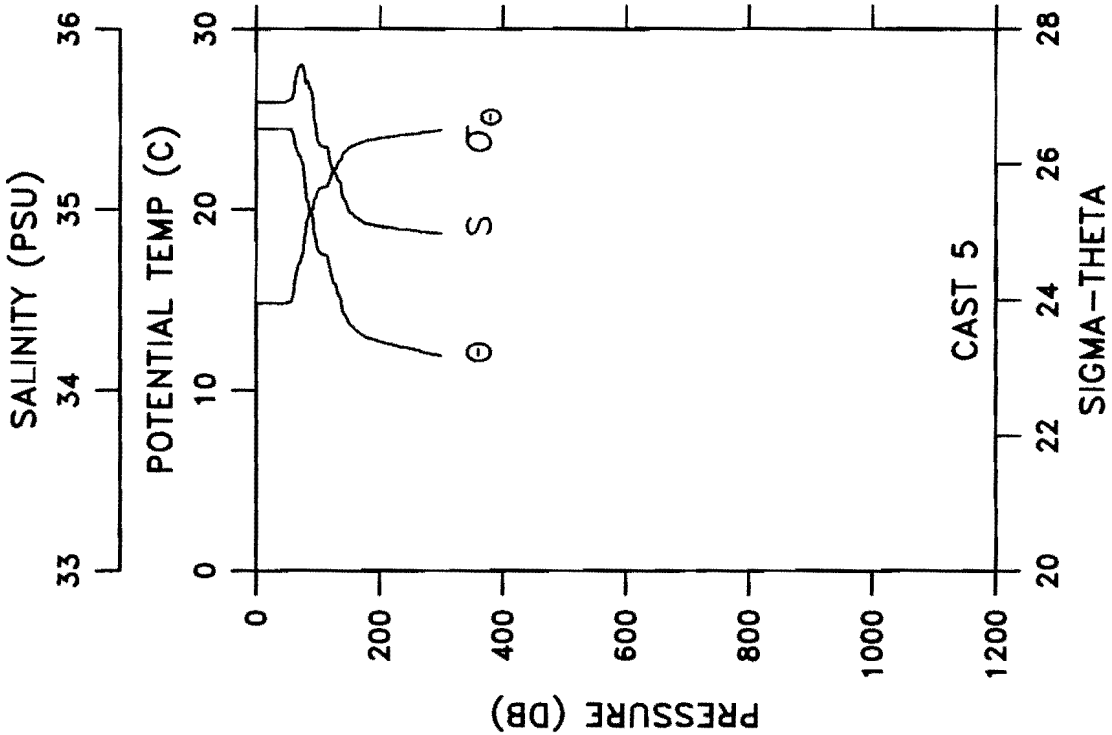


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.578 | 35.611 | 23.932 | 0.000 |
| 10 | 24.577 | 35.611 | 23.933 | 0.040 |
| 20 | 24.579 | 35.611 | 23.932 | 0.079 |
| 30 | 24.569 | 35.610 | 23.935 | 0.119 |
| 40 | 24.537 | 35.611 | 23.945 | 0.159 |
| 50 | 24.534 | 35.611 | 23.946 | 0.199 |
| 60 | 22.937 | 35.820 | 24.575 | 0.237 |
| 70 | 21.265 | 35.761 | 25.002 | 0.269 |
| 80 | 19.815 | 35.662 | 25.317 | 0.297 |
| 90 | 17.793 | 35.388 | 25.621 | 0.323 |
| 100 | 17.239 | 35.313 | 25.699 | 0.346 |
| 110 | 15.946 | 35.192 | 25.908 | 0.368 |
| 120 | 14.310 | 35.064 | 26.171 | 0.388 |
| 130 | 13.569 | 34.979 | 26.262 | 0.406 |
| 140 | 13.296 | 34.960 | 26.303 | 0.424 |
| 150 | 13.024 | 34.933 | 26.336 | 0.441 |
| 160 | 12.865 | 34.921 | 26.359 | 0.459 |
| 170 | 12.735 | 34.910 | 26.377 | 0.475 |
| 180 | 12.635 | 34.906 | 26.393 | 0.492 |
| 190 | 12.567 | 34.902 | 26.404 | 0.509 |
| 200 | 12.520 | 34.899 | 26.410 | 0.526 |
| 250 | 12.106 | 34.873 | 26.470 | 0.608 |
| 300 | 11.655 | 34.851 | 26.539 | 0.687 |
| 350 | 10.647 | 34.791 | 26.677 | 0.762 |
| 400 | 9.738 | 34.740 | 26.793 | 0.832 |
| 450 | 9.114 | 34.703 | 26.868 | 0.896 |
| 500 | 8.181 | 34.649 | 26.971 | 0.957 |
| 550 | 7.470 | 34.611 | 27.046 | 1.013 |
| 600 | 6.909 | 34.585 | 27.104 | 1.067 |
| 650 | 6.383 | 34.569 | 27.163 | 1.118 |
| 700 | 5.942 | 34.561 | 27.213 | 1.167 |
| 750 | 5.615 | 34.554 | 27.248 | 1.213 |
| 800 | 5.238 | 34.553 | 27.293 | 1.258 |
| 900 | 4.697 | 34.556 | 27.358 | 1.342 |
| 1000 | 4.261 | 34.563 | 27.411 | 1.420 |
| 1500 | 2.892 | 34.606 | 27.580 | 1.760 |
| 2000 | 2.156 | 34.645 | 27.675 | 2.039 |
| 2500 | 1.722 | 34.662 | 27.723 | 2.287 |
| 3000 | 1.418 | 34.677 | 27.757 | 2.518 |
| 3500 | 1.188 | 34.691 | 27.784 | 2.739 |
| 4000 | 1.088 | 34.696 | 27.795 | 2.952 |
| 4106 | 1.082 | 34.697 | 27.796 | 2.997 |

CAST EP5-88-OC -005 DATE 19 NOV 88 TIME 0903 GMT
LAT 01 58.4S LONG 139 57.1W

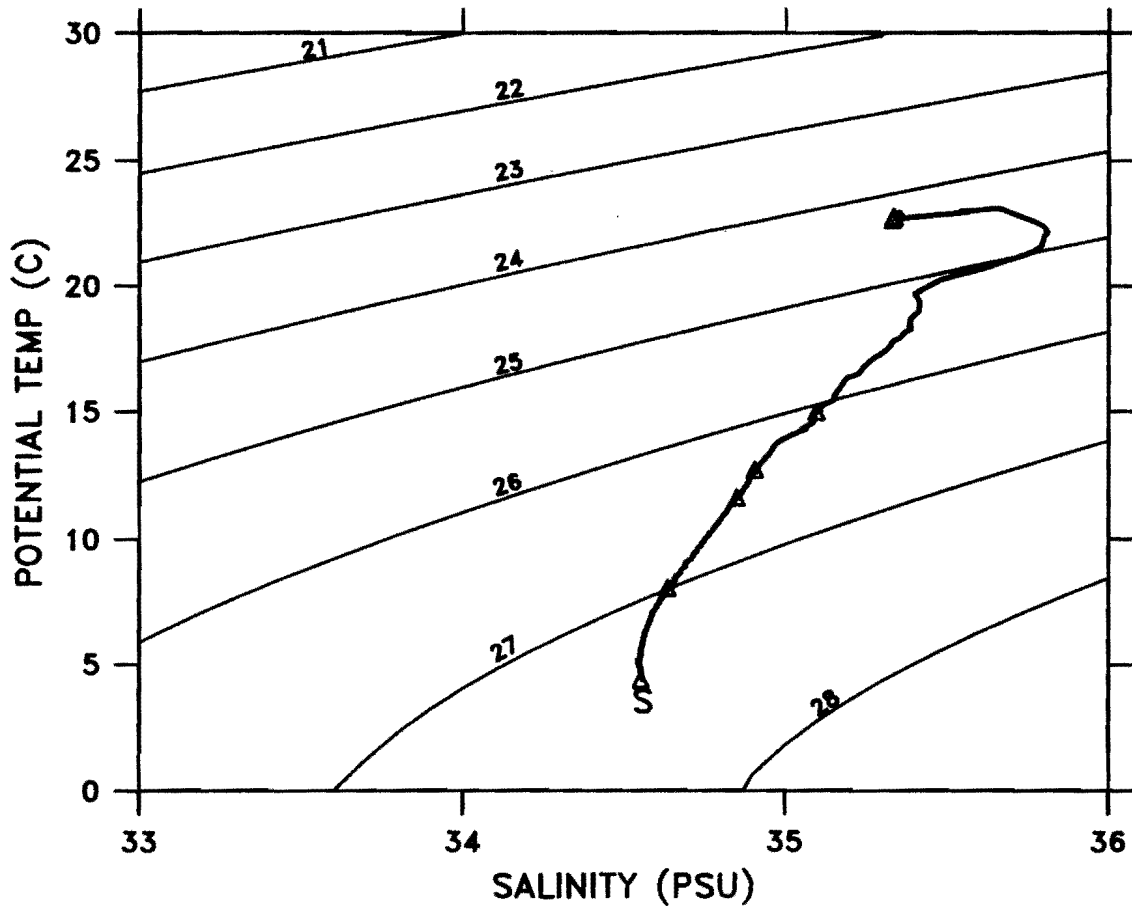


CAST EP5-88-0C -005 DATE 19 NOV 88 TIME 0903 GMT
 LAT 01 58.4S LONG 139 57.1W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 095 T SPD 20 KT VISIBILITY 7
 CLOUD X AMOUNT 2 DRY 23.0 WET 21.5 DEPTH 4261 M

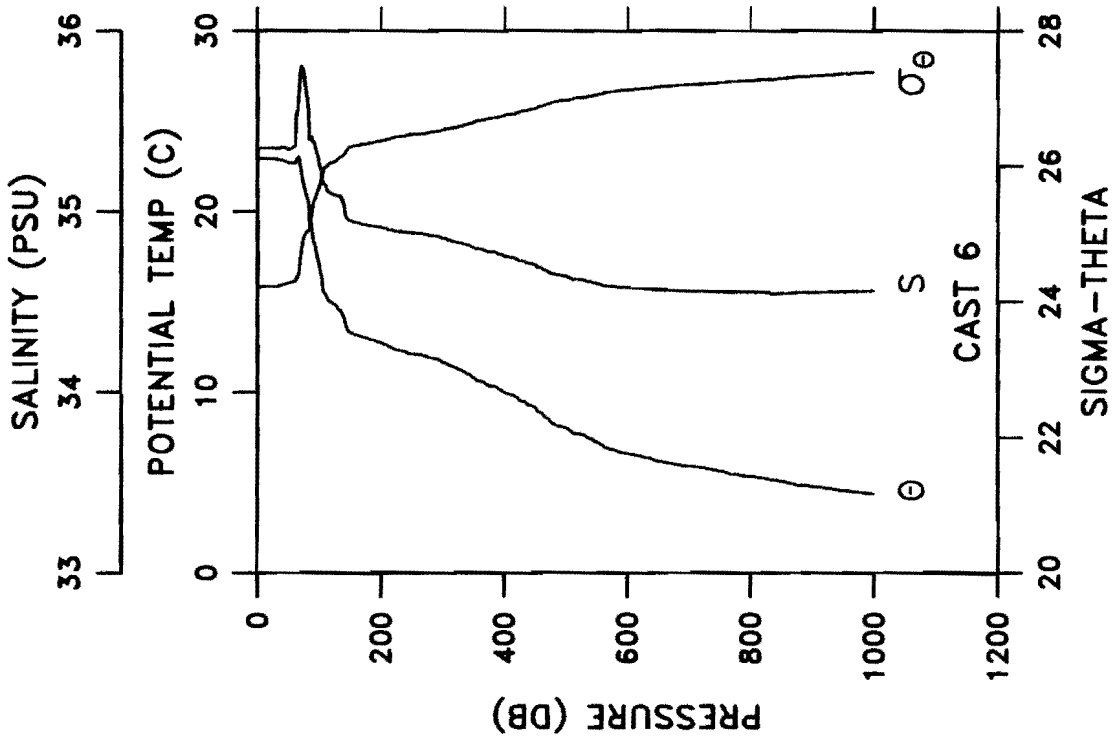


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.484 | 35.597 | 23.951 | 0.000 |
| 10 | 24.477 | 35.595 | 23.951 | 0.039 |
| 20 | 24.475 | 35.596 | 23.953 | 0.079 |
| 30 | 24.474 | 35.595 | 23.952 | 0.119 |
| 40 | 24.475 | 35.594 | 23.951 | 0.158 |
| 50 | 24.471 | 35.602 | 23.958 | 0.198 |
| 60 | 24.155 | 35.653 | 24.091 | 0.237 |
| 70 | 23.003 | 35.791 | 24.535 | 0.273 |
| 80 | 21.020 | 35.701 | 25.023 | 0.305 |
| 90 | 19.767 | 35.653 | 25.322 | 0.333 |
| 100 | 17.794 | 35.376 | 25.612 | 0.358 |
| 110 | 17.503 | 35.345 | 25.659 | 0.382 |
| 120 | 16.673 | 35.262 | 25.794 | 0.405 |
| 130 | 15.673 | 35.180 | 25.962 | 0.427 |
| 140 | 14.367 | 35.066 | 26.161 | 0.447 |
| 150 | 13.716 | 34.991 | 26.240 | 0.465 |
| 160 | 13.356 | 34.959 | 26.290 | 0.483 |
| 170 | 13.117 | 34.939 | 26.322 | 0.501 |
| 180 | 12.895 | 34.923 | 26.355 | 0.518 |
| 190 | 12.802 | 34.913 | 26.366 | 0.535 |
| 200 | 12.687 | 34.908 | 26.385 | 0.552 |
| 250 | 12.297 | 34.888 | 26.446 | 0.635 |
| 300 | 11.900 | 34.869 | 26.507 | 0.716 |
| 300 | 11.900 | 34.869 | 26.507 | 0.716 |

CAST EP5-88-OC -006 DATE 19 NOV 88 TIME 1225 GMT
LAT 01 29.8S LONG 139 59.4W

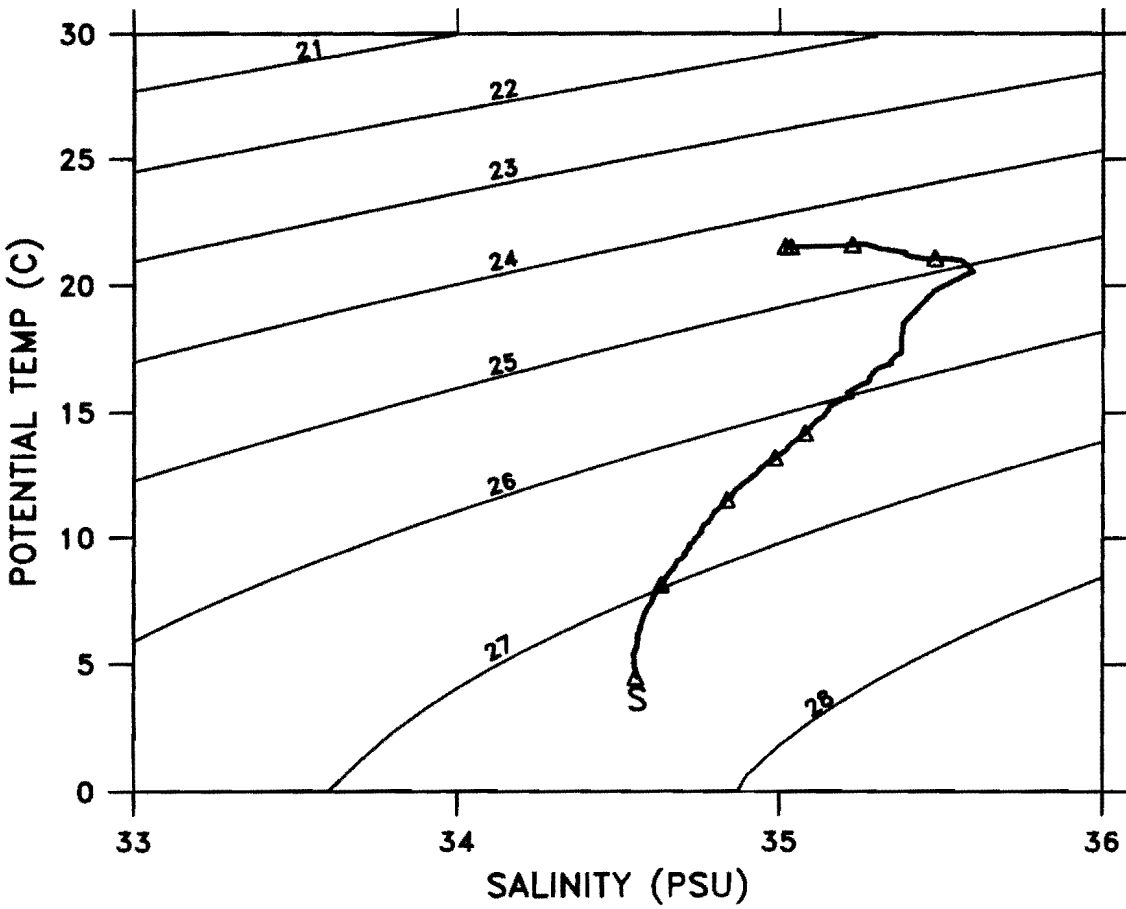


CAST EP5-88-0C -006 DATE 19 NOV 88 TIME 1225 GMT
 LAT 01 29.8S LONG 139 59.4W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 090 T SPD 14 KT VISIBILITY 7
 CLOUD X AMOUNT 1 DRY 22.0 WET 21.2 DEPTH 4279 M

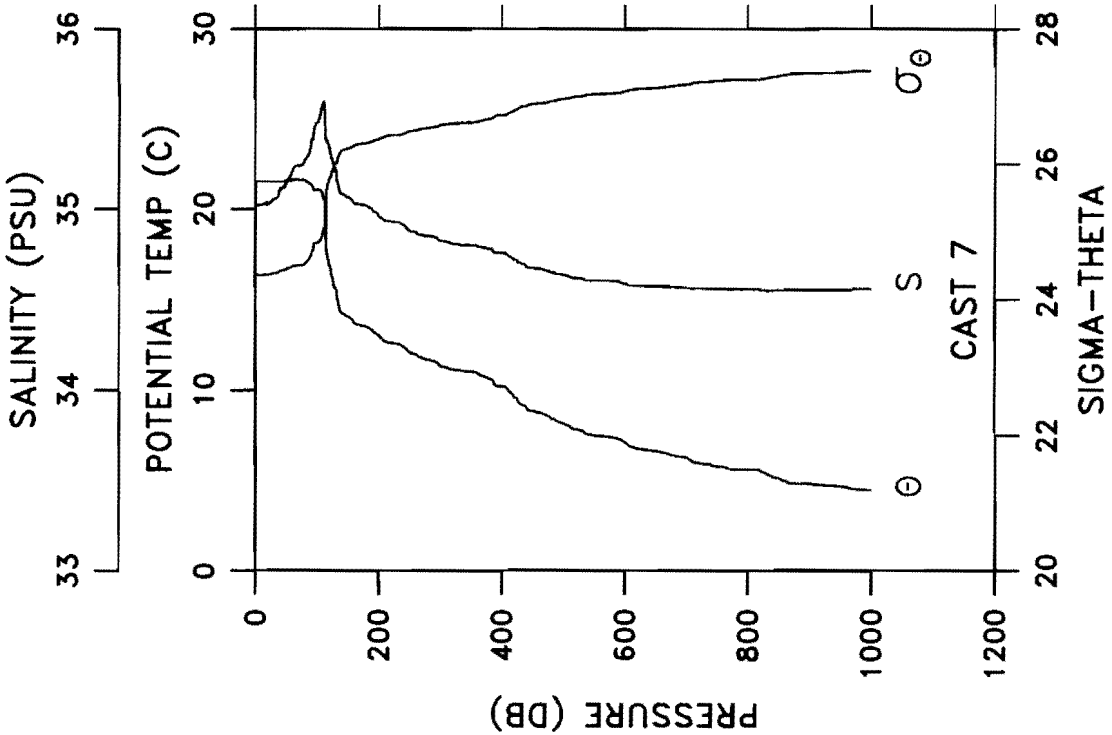


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.950 | 35.354 | 24.218 | 0.000 |
| 10 | 22.941 | 35.353 | 24.220 | 0.037 |
| 20 | 22.941 | 35.353 | 24.220 | 0.074 |
| 30 | 22.919 | 35.352 | 24.225 | 0.111 |
| 40 | 22.896 | 35.360 | 24.250 | 0.148 |
| 50 | 22.715 | 35.344 | 24.278 | 0.184 |
| 60 | 22.706 | 35.369 | 24.300 | 0.221 |
| 70 | 22.385 | 35.801 | 24.725 | 0.256 |
| 80 | 20.788 | 35.639 | 25.039 | 0.287 |
| 90 | 18.408 | 35.394 | 25.465 | 0.315 |
| 100 | 16.988 | 35.263 | 25.720 | 0.339 |
| 110 | 15.403 | 35.146 | 25.996 | 0.360 |
| 120 | 14.855 | 35.097 | 26.058 | 0.380 |
| 130 | 14.610 | 35.086 | 26.124 | 0.400 |
| 140 | 14.169 | 35.039 | 26.182 | 0.419 |
| 150 | 13.297 | 34.950 | 26.295 | 0.437 |
| 160 | 13.162 | 34.940 | 26.314 | 0.454 |
| 170 | 13.029 | 34.930 | 26.334 | 0.472 |
| 180 | 12.930 | 34.923 | 26.348 | 0.489 |
| 190 | 12.835 | 34.918 | 26.363 | 0.506 |
| 200 | 12.714 | 34.913 | 26.393 | 0.523 |
| 250 | 12.110 | 34.882 | 26.477 | 0.605 |
| 300 | 11.613 | 34.852 | 26.548 | 0.685 |
| 350 | 10.792 | 34.803 | 26.660 | 0.761 |
| 400 | 10.008 | 34.752 | 26.757 | 0.831 |
| 450 | 9.186 | 34.707 | 26.859 | 0.897 |
| 500 | 8.069 | 34.643 | 26.984 | 0.958 |
| 550 | 7.289 | 34.602 | 27.085 | 1.013 |
| 600 | 6.634 | 34.578 | 27.136 | 1.065 |
| 650 | 6.221 | 34.564 | 27.180 | 1.115 |
| 700 | 5.945 | 34.561 | 27.213 | 1.163 |
| 750 | 5.659 | 34.556 | 27.245 | 1.210 |
| 800 | 5.381 | 34.552 | 27.275 | 1.255 |
| 900 | 4.811 | 34.552 | 27.342 | 1.342 |
| 1000 | 4.389 | 34.559 | 27.394 | 1.422 |
| 1002 | 4.386 | 34.559 | 27.395 | 1.424 |

CAST EP5-88-OC -007 DATE 19 NOV 88 TIME 1600 GMT
LAT 00 59.2S LONG 139 85.5W

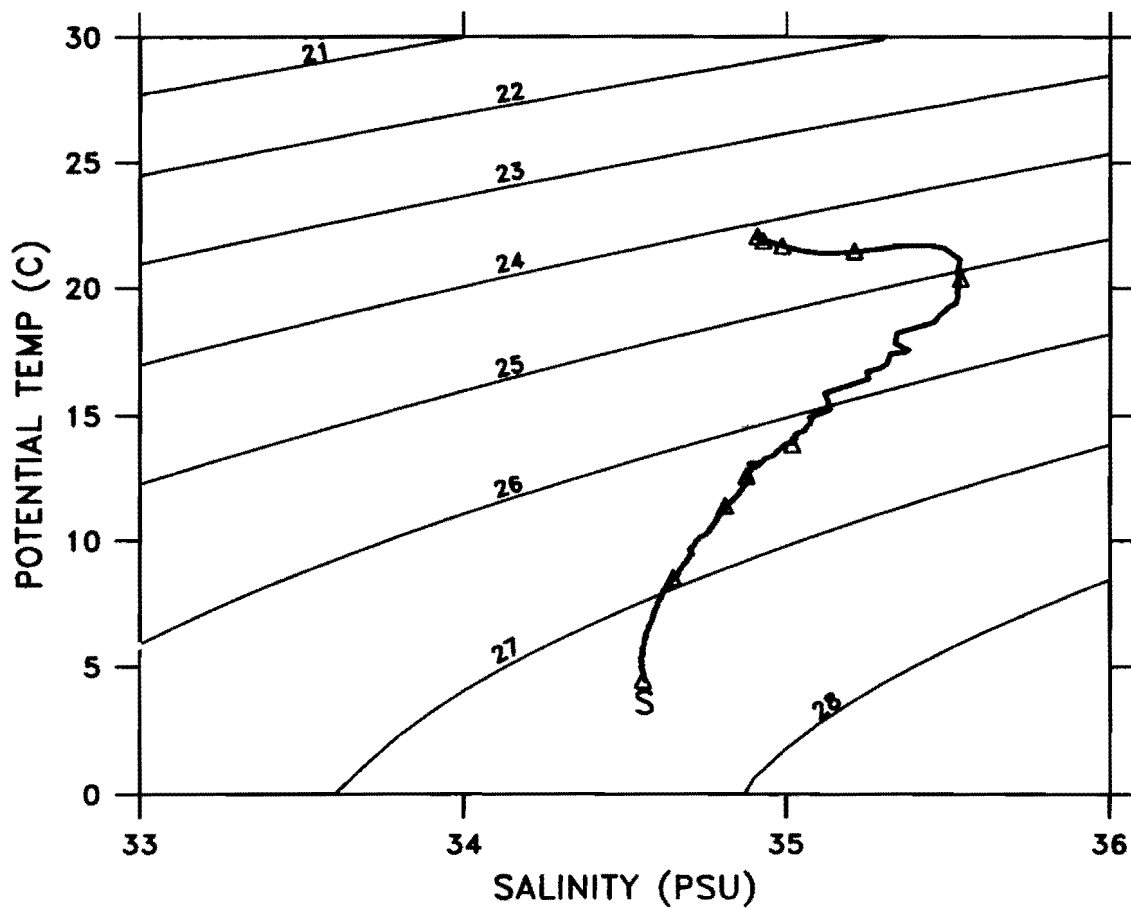


CAST EP5-88-0C -007 DATE 19 NOV 88 TIME 1600 GMT
 LAT 00 59.25 LONG 139 85.5W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 095 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 22.5 WET 21.1 DEPTH 4267 M

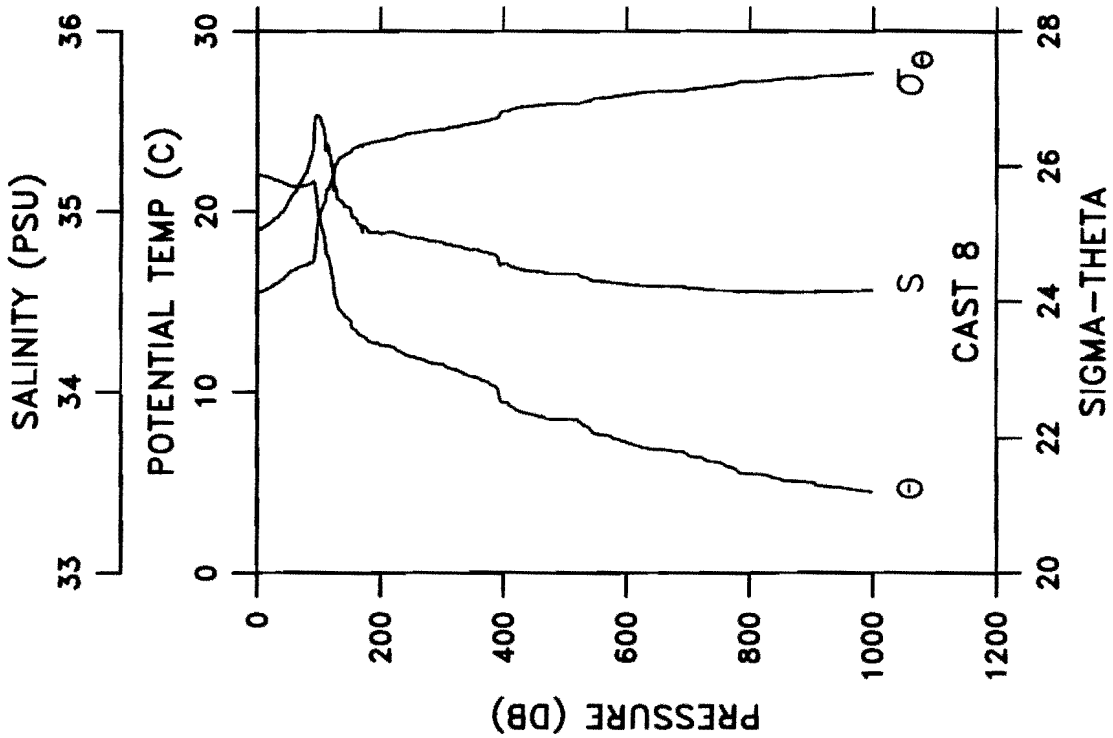


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 21.547 | 35.021 | 24.361 | 0.000 |
| 10 | 21.543 | 35.024 | 24.365 | 0.036 |
| 20 | 21.541 | 35.027 | 24.367 | 0.071 |
| 30 | 21.540 | 35.057 | 24.390 | 0.107 |
| 40 | 21.557 | 35.115 | 24.430 | 0.142 |
| 50 | 21.569 | 35.149 | 24.453 | 0.177 |
| 60 | 21.615 | 35.216 | 24.491 | 0.212 |
| 70 | 21.643 | 35.241 | 24.502 | 0.246 |
| 80 | 21.614 | 35.274 | 24.535 | 0.281 |
| 90 | 21.396 | 35.343 | 24.648 | 0.314 |
| 100 | 21.081 | 35.480 | 24.839 | 0.346 |
| 110 | 20.667 | 35.590 | 25.035 | 0.377 |
| 120 | 16.907 | 35.347 | 25.804 | 0.403 |
| 130 | 15.587 | 35.222 | 26.013 | 0.424 |
| 140 | 14.261 | 35.085 | 26.198 | 0.443 |
| 150 | 14.052 | 35.067 | 26.229 | 0.462 |
| 160 | 13.710 | 35.032 | 26.273 | 0.480 |
| 170 | 13.558 | 35.024 | 26.298 | 0.497 |
| 180 | 13.482 | 35.019 | 26.310 | 0.515 |
| 190 | 13.274 | 34.995 | 26.334 | 0.533 |
| 200 | 12.977 | 34.961 | 26.368 | 0.550 |
| 250 | 12.081 | 34.882 | 26.483 | 0.633 |
| 300 | 11.318 | 34.824 | 26.581 | 0.711 |
| 350 | 11.027 | 34.800 | 26.615 | 0.786 |
| 400 | 10.240 | 34.759 | 26.723 | 0.859 |
| 450 | 8.875 | 34.679 | 26.887 | 0.925 |
| 500 | 8.169 | 34.638 | 26.964 | 0.986 |
| 550 | 7.506 | 34.605 | 27.036 | 1.043 |
| 600 | 7.107 | 34.588 | 27.080 | 1.098 |
| 650 | 6.632 | 34.574 | 27.134 | 1.150 |
| 700 | 6.259 | 34.566 | 27.176 | 1.201 |
| 750 | 5.778 | 34.560 | 27.233 | 1.248 |
| 800 | 5.611 | 34.559 | 27.253 | 1.294 |
| 900 | 4.808 | 34.553 | 27.343 | 1.381 |
| 1000 | 4.483 | 34.560 | 27.385 | 1.462 |
| 1000 | 4.483 | 34.560 | 27.385 | 1.462 |

CAST EP5-88-OC -008 DATE 19 NOV 88 TIME 1934 GMT
LAT 00 30.5S LONG 139 59.9W

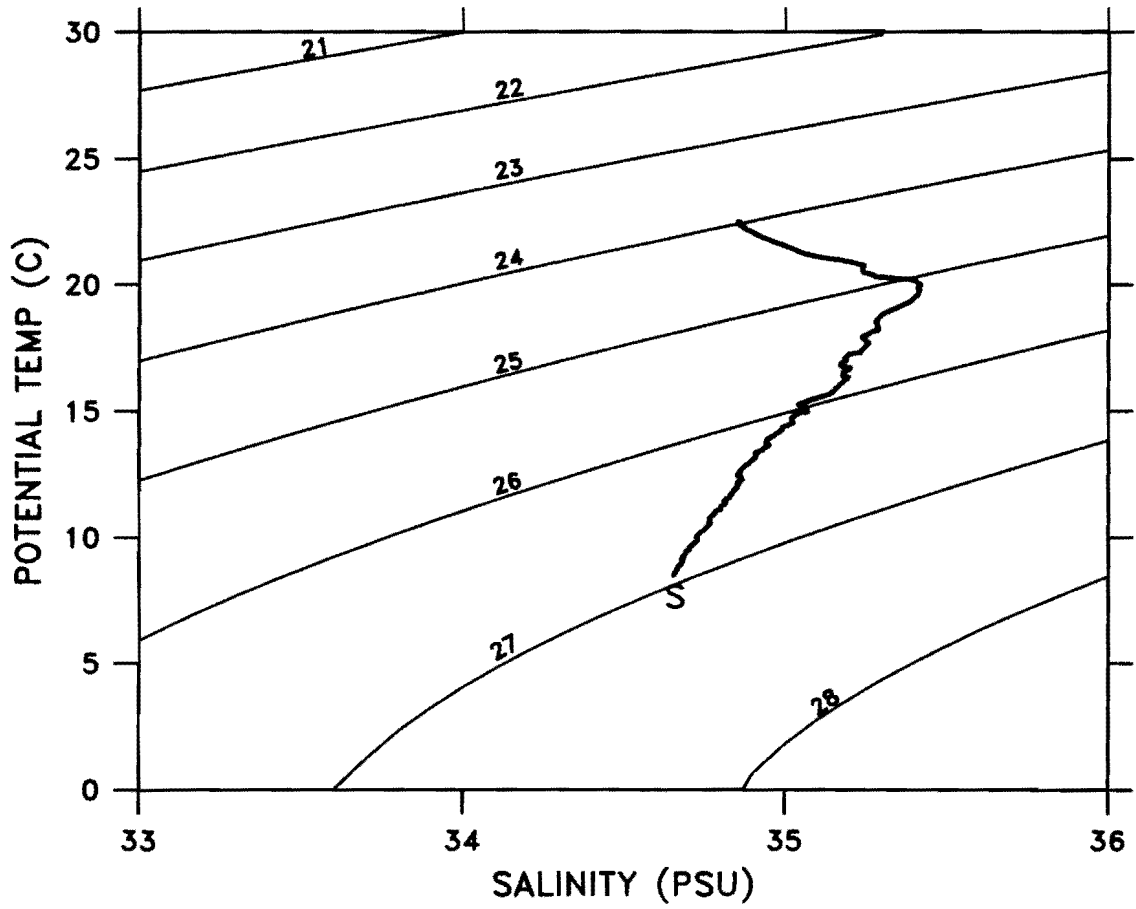


CAST EPS-88-OC -008 DATE 19 NOV 88 TIME 1934 GMT
 LAT 00 30.5S LONG 139 59.9W WEATHER 2 SEA STATE 3
 BAROMETER 15 WIND DIR 090 T SPD 14 KT VISIBILITY 7
 CLOUD 7 AMOUNT 7 DRY 23.2 WET 21.9 DEPTH 4302 M

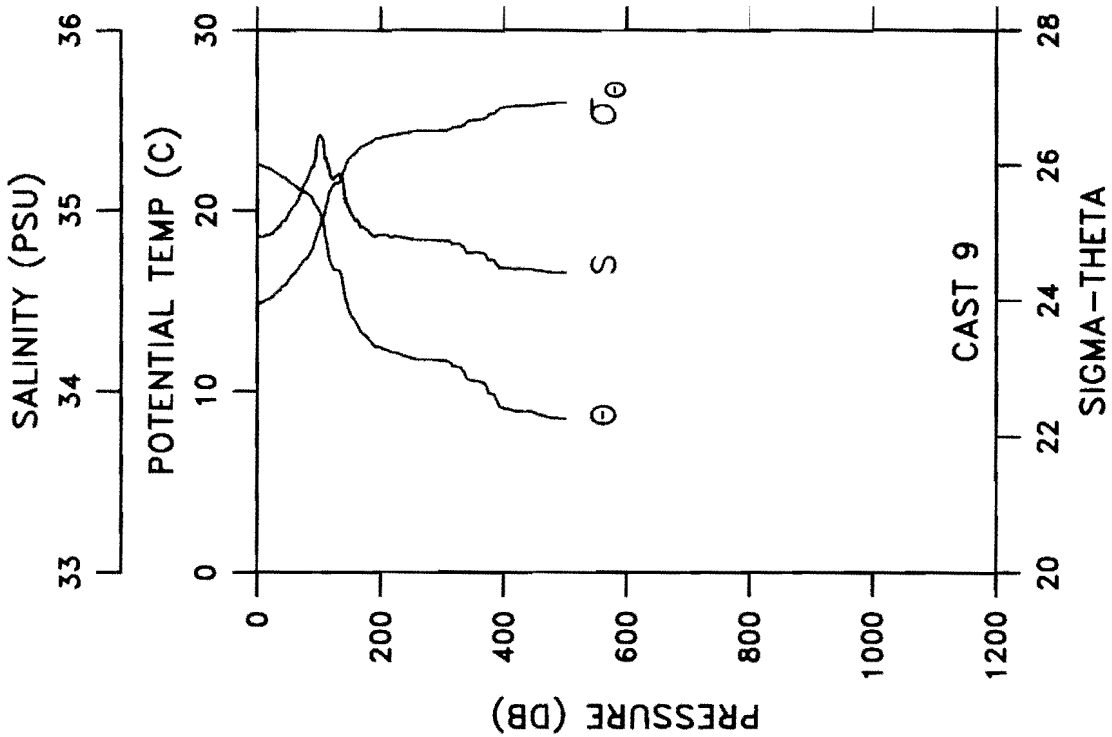


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.029 | 34.907 | 24.140 | 0.000 |
| 10 | 21.991 | 34.909 | 24.153 | 0.038 |
| 20 | 21.891 | 34.934 | 24.200 | 0.075 |
| 30 | 21.772 | 34.964 | 24.256 | 0.112 |
| 40 | 21.646 | 34.995 | 24.315 | 0.148 |
| 50 | 21.452 | 35.058 | 24.416 | 0.184 |
| 60 | 21.395 | 35.104 | 24.466 | 0.219 |
| 70 | 21.401 | 35.164 | 24.510 | 0.254 |
| 80 | 21.446 | 35.214 | 24.536 | 0.288 |
| 90 | 21.649 | 35.339 | 24.575 | 0.322 |
| 100 | 19.710 | 35.528 | 25.242 | 0.353 |
| 110 | 18.216 | 35.341 | 25.481 | 0.379 |
| 120 | 16.706 | 35.248 | 25.775 | 0.403 |
| 130 | 14.818 | 35.076 | 26.071 | 0.424 |
| 140 | 14.316 | 35.040 | 26.152 | 0.443 |
| 150 | 13.987 | 35.021 | 26.207 | 0.462 |
| 160 | 13.412 | 34.960 | 26.279 | 0.480 |
| 170 | 13.082 | 34.884 | 26.287 | 0.497 |
| 180 | 12.825 | 34.890 | 26.343 | 0.515 |
| 190 | 12.711 | 34.883 | 26.361 | 0.532 |
| 200 | 12.580 | 34.875 | 26.380 | 0.549 |
| 250 | 11.923 | 34.853 | 26.490 | 0.631 |
| 300 | 11.539 | 34.827 | 26.542 | 0.710 |
| 350 | 10.848 | 34.787 | 26.638 | 0.786 |
| 400 | 9.463 | 34.708 | 26.814 | 0.857 |
| 450 | 8.755 | 34.666 | 26.896 | 0.921 |
| 500 | 8.509 | 34.653 | 26.924 | 0.982 |
| 550 | 7.734 | 34.613 | 27.010 | 1.042 |
| 600 | 7.266 | 34.594 | 27.062 | 1.098 |
| 650 | 6.848 | 34.584 | 27.112 | 1.151 |
| 700 | 6.560 | 34.572 | 27.142 | 1.203 |
| 750 | 6.143 | 34.564 | 27.190 | 1.253 |
| 800 | 5.510 | 34.555 | 27.262 | 1.300 |
| 900 | 5.026 | 34.553 | 27.318 | 1.388 |
| 1000 | 4.478 | 34.560 | 27.386 | 1.470 |
| 1006 | 4.445 | 34.561 | 27.390 | 1.474 |

CAST EP5-88-OC -009 DATE 19 NOV 88 TIME 2318 GMT
LAT 00 04.4S LONG 139 52.4W

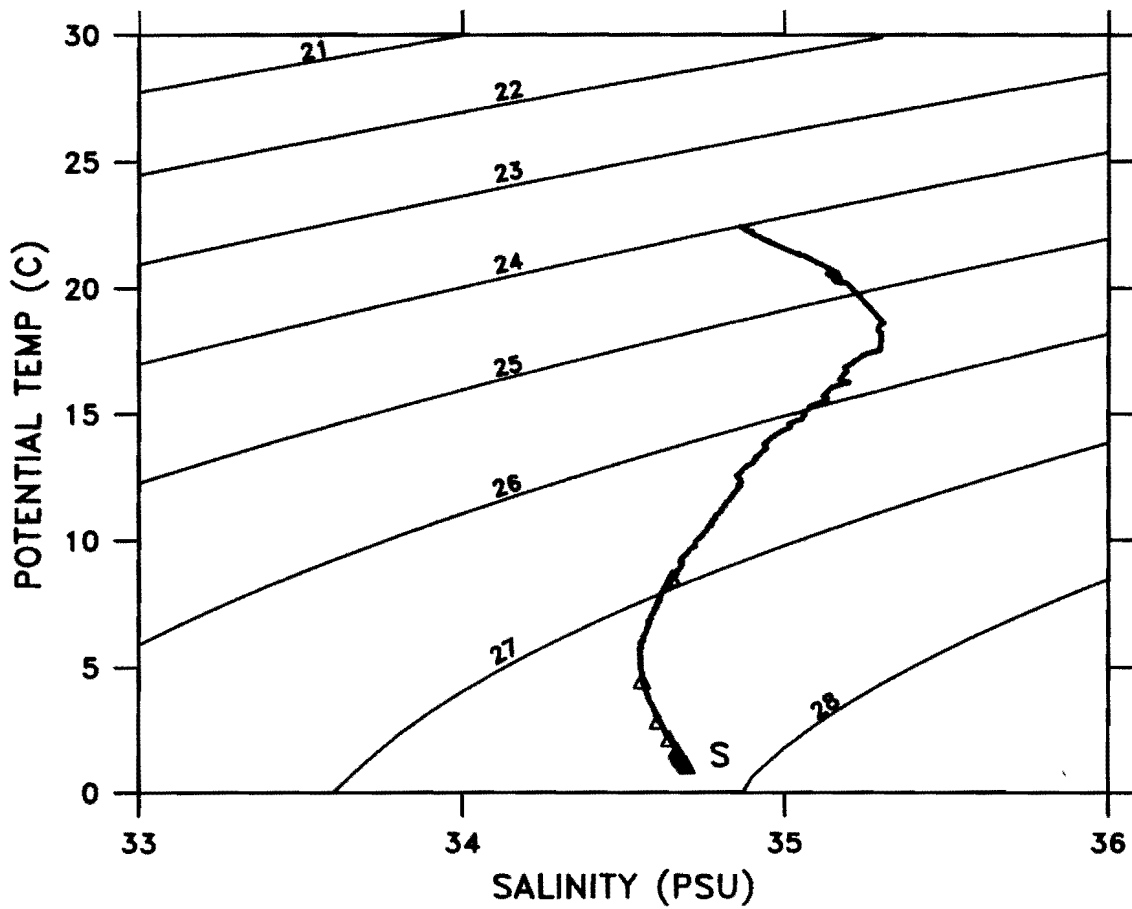


CST EP5-88-0C -009 DATE 19 NOV 88 TIME 2318 GMT
 LAT 00 04.4S LONG 139 52.4W WEATHER 0 SEA STATE 4
 BAROMETER 12 WIND DIR 076 T SPD 18 KT VISIBILITY 7
 CLOUD 7 AMOUNT 1 DRY 24.3 WET 21.0 DEPTH 4328 M

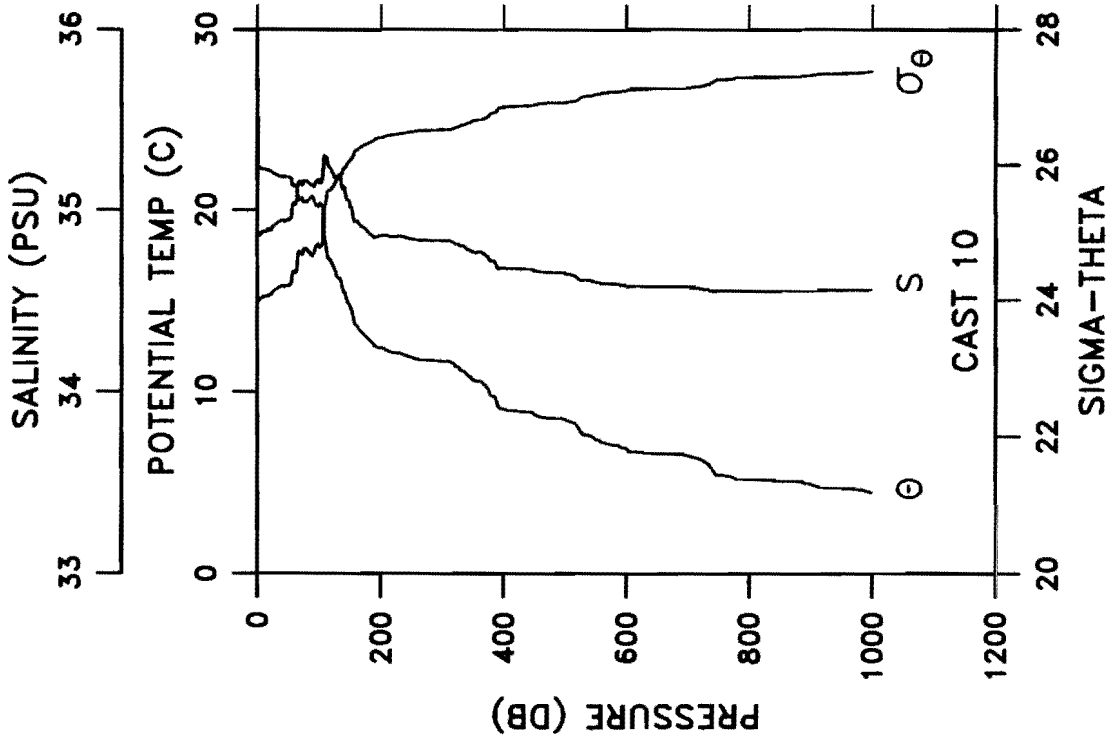


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.504 | 34.856 | 23.967 | 0.000 |
| 10 | 22.442 | 34.855 | 23.984 | 0.039 |
| 20 | 22.306 | 34.866 | 24.032 | 0.078 |
| 30 | 22.108 | 34.894 | 24.108 | 0.117 |
| 40 | 21.852 | 34.937 | 24.213 | 0.154 |
| 50 | 21.665 | 34.973 | 24.292 | 0.191 |
| 60 | 21.400 | 35.026 | 24.406 | 0.227 |
| 70 | 21.129 | 35.091 | 24.529 | 0.262 |
| 80 | 20.979 | 35.165 | 24.627 | 0.296 |
| 90 | 20.633 | 35.239 | 24.776 | 0.328 |
| 100 | 20.032 | 35.412 | 25.069 | 0.359 |
| 110 | 18.535 | 35.280 | 25.354 | 0.387 |
| 120 | 17.010 | 35.192 | 25.660 | 0.412 |
| 130 | 16.714 | 35.198 | 25.735 | 0.435 |
| 140 | 15.661 | 35.138 | 25.932 | 0.457 |
| 150 | 14.361 | 34.994 | 26.106 | 0.477 |
| 160 | 13.740 | 34.941 | 26.196 | 0.496 |
| 170 | 13.199 | 34.909 | 26.282 | 0.515 |
| 180 | 12.923 | 34.889 | 26.323 | 0.532 |
| 190 | 12.475 | 34.853 | 26.384 | 0.549 |
| 200 | 12.410 | 34.863 | 26.404 | 0.566 |
| 250 | 11.837 | 34.840 | 26.497 | 0.647 |
| 300 | 11.709 | 34.834 | 26.516 | 0.727 |
| 350 | 10.583 | 34.765 | 26.668 | 0.803 |
| 400 | 9.074 | 34.681 | 26.857 | 0.872 |
| 450 | 8.848 | 34.670 | 26.884 | 0.935 |
| 500 | 8.506 | 34.655 | 26.926 | 0.996 |
| 501 | 8.501 | 34.655 | 26.927 | 0.997 |

CAST EP5-88-OC -010 DATE 20 NOV 88 TIME 0933 GMT
LAT 00 05.3S LONG 139 58.9W

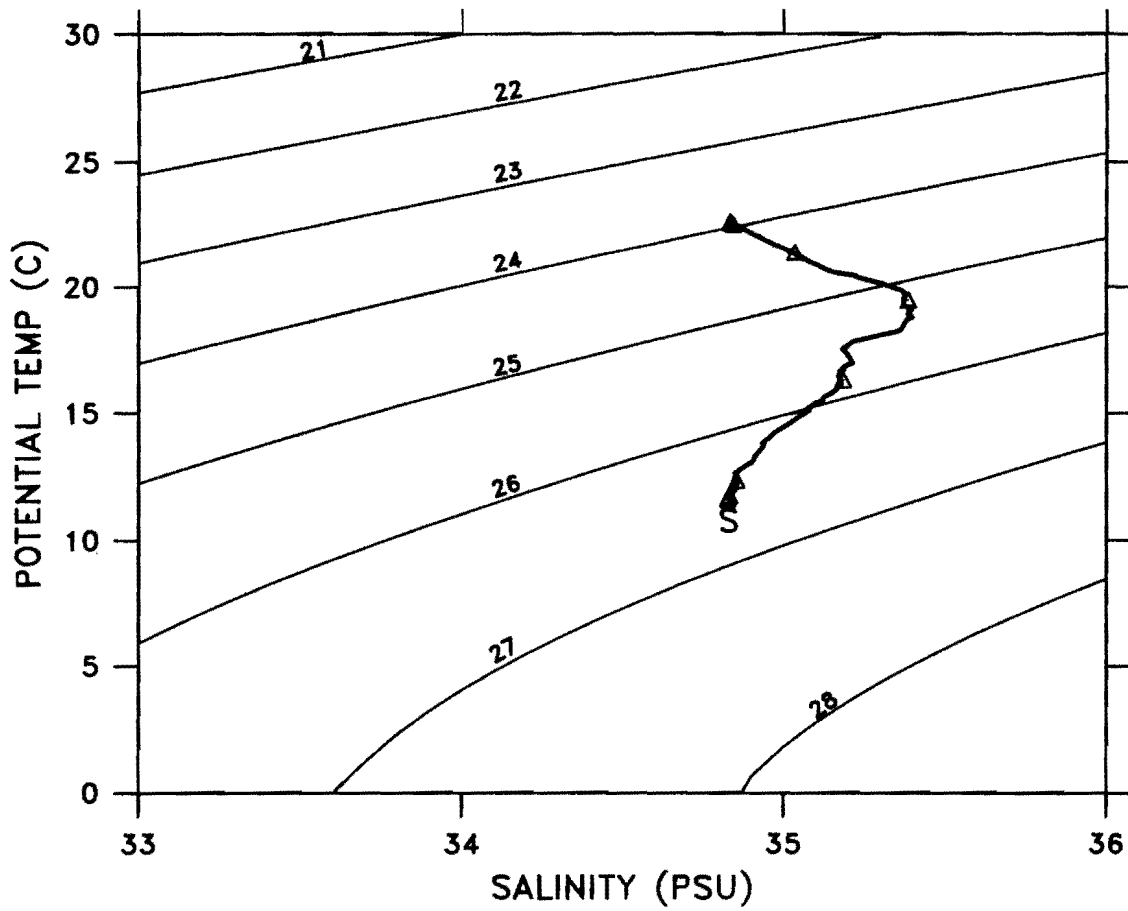


CAST EP5-88-OC -010 DATE 20 NOV 88 TIME 0933 GMT
 LAT 00 05.3S LONG 139 58.9W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 090 T SPD 18 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 22.3 WET 20.3 DEPTH 4303 M

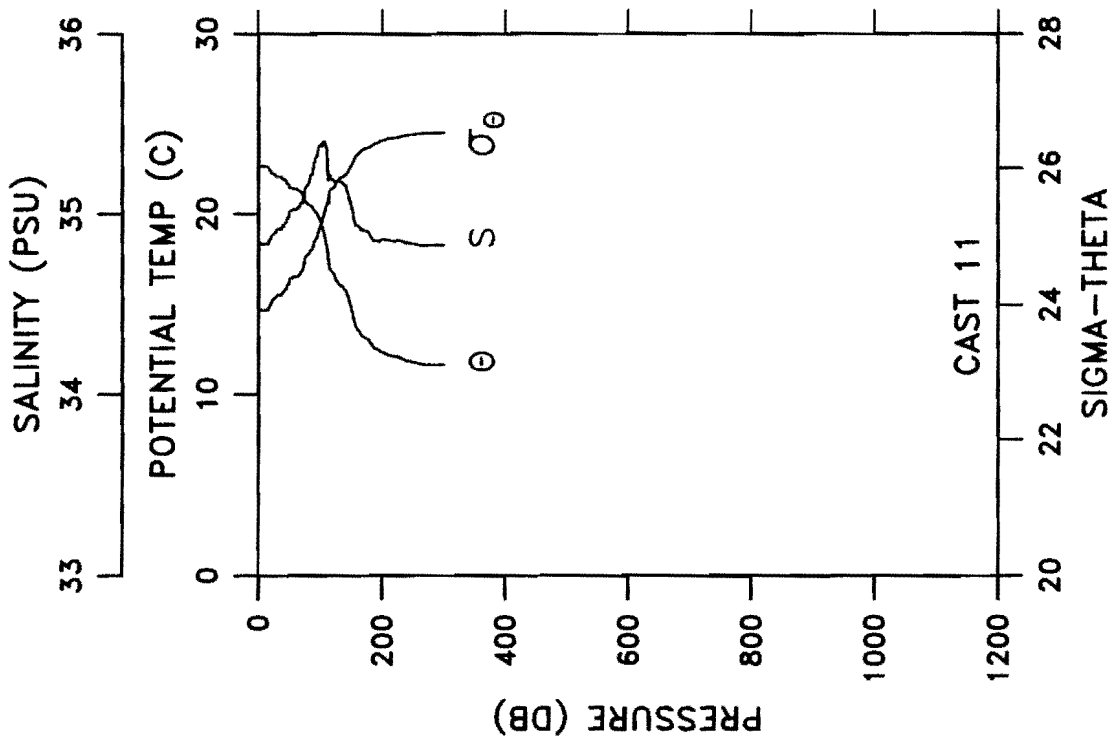


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.424 | 34.860 | 23.994 | 0.000 |
| 10 | 22.272 | 34.884 | 24.054 | 0.039 |
| 20 | 22.168 | 34.899 | 24.095 | 0.077 |
| 30 | 21.984 | 34.923 | 24.165 | 0.115 |
| 40 | 21.838 | 34.947 | 24.224 | 0.152 |
| 50 | 21.863 | 34.943 | 24.214 | 0.190 |
| 60 | 21.329 | 35.045 | 24.440 | 0.226 |
| 70 | 20.600 | 35.158 | 24.724 | 0.260 |
| 80 | 20.442 | 35.167 | 24.773 | 0.292 |
| 90 | 20.724 | 35.140 | 24.676 | 0.325 |
| 100 | 20.315 | 35.149 | 24.793 | 0.356 |
| 110 | 18.306 | 35.288 | 25.418 | 0.387 |
| 120 | 17.151 | 35.224 | 25.651 | 0.411 |
| 130 | 16.286 | 35.183 | 25.824 | 0.434 |
| 140 | 15.465 | 35.121 | 25.962 | 0.456 |
| 150 | 14.714 | 35.037 | 26.064 | 0.476 |
| 160 | 13.646 | 34.942 | 26.217 | 0.495 |
| 170 | 13.233 | 34.912 | 26.279 | 0.513 |
| 180 | 12.884 | 34.880 | 26.323 | 0.531 |
| 190 | 12.524 | 34.850 | 26.372 | 0.548 |
| 200 | 12.391 | 34.862 | 26.407 | 0.565 |
| 250 | 11.870 | 34.844 | 26.493 | 0.646 |
| 300 | 11.668 | 34.834 | 26.524 | 0.725 |
| 350 | 10.676 | 34.774 | 26.658 | 0.802 |
| 400 | 9.018 | 34.681 | 26.866 | 0.871 |
| 450 | 8.737 | 34.665 | 26.898 | 0.933 |
| 500 | 8.481 | 34.653 | 26.928 | 0.994 |
| 550 | 7.380 | 34.600 | 27.051 | 1.052 |
| 600 | 6.881 | 34.584 | 27.108 | 1.105 |
| 650 | 6.614 | 34.578 | 27.139 | 1.156 |
| 700 | 6.502 | 34.573 | 27.150 | 1.207 |
| 750 | 5.431 | 34.555 | 27.272 | 1.256 |
| 800 | 5.199 | 34.555 | 27.299 | 1.300 |
| 900 | 4.927 | 34.555 | 27.331 | 1.386 |
| 1000 | 4.481 | 34.561 | 27.386 | 1.467 |
| 1500 | 2.879 | 34.610 | 27.585 | 1.815 |
| 2000 | 2.179 | 34.643 | 27.671 | 2.092 |
| 2500 | 1.679 | 34.666 | 27.729 | 2.339 |
| 3000 | 1.441 | 34.677 | 27.755 | 2.570 |
| 3500 | 1.286 | 34.685 | 27.773 | 2.795 |
| 4000 | 1.098 | 34.696 | 27.794 | 3.015 |
| 4197 | 1.075 | 34.698 | 27.797 | 3.100 |

CAST EP5-88-OC -011 DATE 20 NOV 88 TIME 1319 GMT
LAT 00 03.9S LONG 140 00.0W

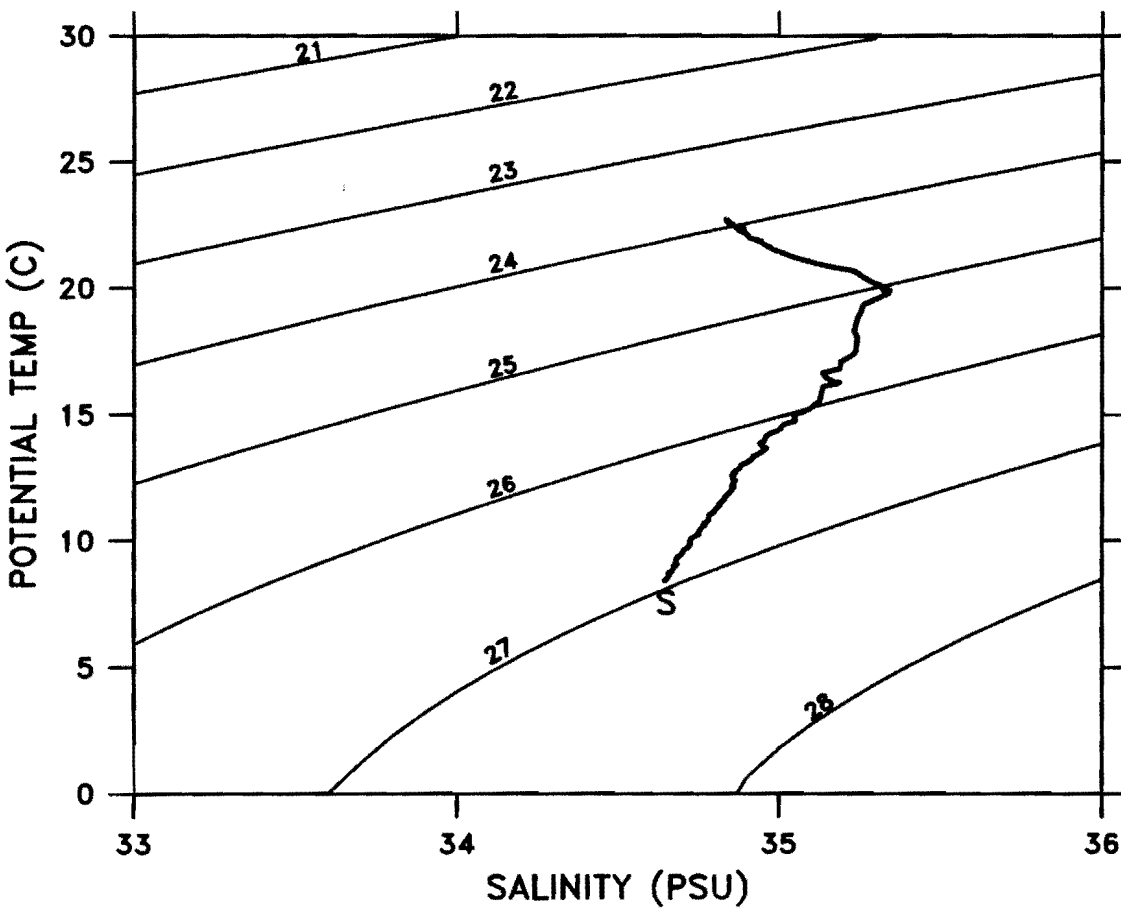


CAST EP5-88-OC -011 DATE 20 NOV 88 TIME 1319 GMT
 LAT 00 03.9S LONG 140 00.0W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 100 T SPD 20 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 22.1 WET 20.2 DEPTH 4267 M

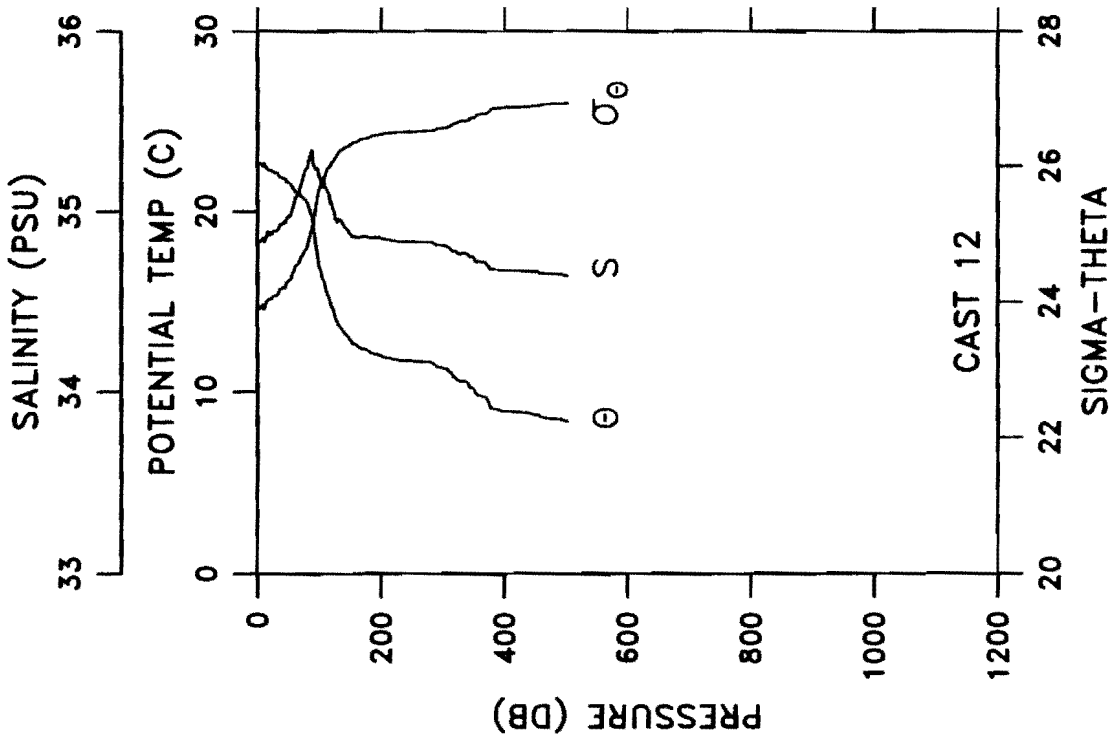


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.580 | 34.841 | 23.935 | 0.000 |
| 10 | 22.606 | 34.835 | 23.923 | 0.040 |
| 20 | 22.335 | 34.863 | 24.021 | 0.079 |
| 30 | 22.037 | 34.913 | 24.143 | 0.118 |
| 40 | 21.914 | 34.935 | 24.194 | 0.155 |
| 50 | 21.438 | 35.014 | 24.386 | 0.192 |
| 60 | 21.385 | 35.023 | 24.407 | 0.227 |
| 70 | 21.164 | 35.060 | 24.496 | 0.262 |
| 80 | 20.555 | 35.161 | 24.738 | 0.296 |
| 90 | 20.198 | 35.282 | 24.926 | 0.327 |
| 100 | 19.610 | 35.378 | 25.154 | 0.357 |
| 110 | 18.315 | 35.366 | 25.475 | 0.384 |
| 120 | 16.808 | 35.188 | 25.705 | 0.408 |
| 130 | 16.188 | 35.179 | 25.843 | 0.430 |
| 140 | 15.854 | 35.154 | 25.900 | 0.452 |
| 150 | 14.873 | 35.052 | 26.041 | 0.473 |
| 160 | 13.650 | 34.935 | 26.211 | 0.492 |
| 170 | 13.217 | 34.910 | 26.280 | 0.510 |
| 180 | 12.964 | 34.887 | 26.313 | 0.528 |
| 190 | 12.545 | 34.853 | 26.370 | 0.545 |
| 200 | 12.359 | 34.859 | 26.411 | 0.562 |
| 250 | 11.803 | 34.837 | 26.501 | 0.643 |
| 300 | 11.643 | 34.829 | 26.525 | 0.722 |
| 301 | 11.643 | 34.829 | 26.525 | 0.723 |

CAST EP5-88-OC -012 DATE 21 NOV 88 TIME 0430 GMT
LAT 00 07.6S LONG 139 56.4W

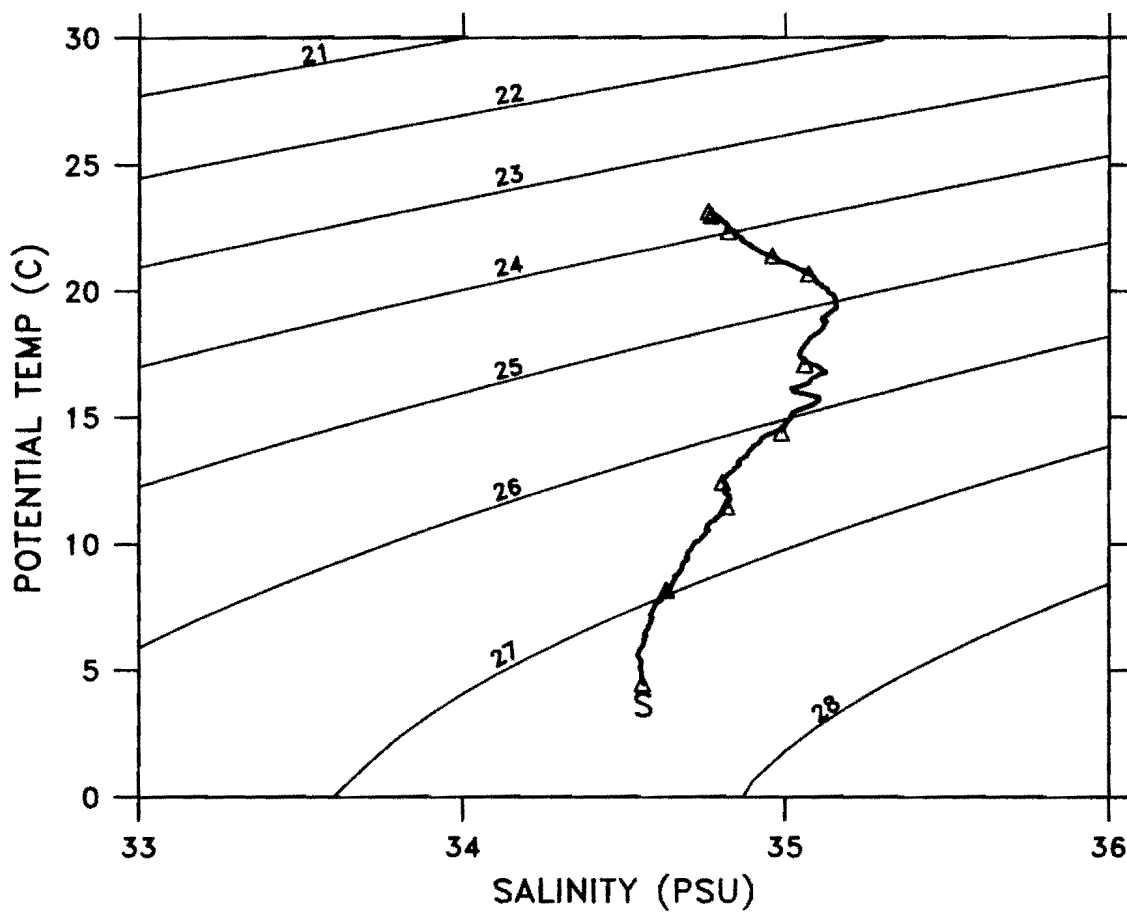


CAST EPS-88-OC -012 DATE 21 NOV 88 TIME 0430 GMT
 LAT 00 07.6S LONG 139 56.4W WEATHER 0 SEA STATE 4
 BAROMETER 12 WIND DIR 100 T SPD 17 KT VISIBILITY 8
 CLOUD X AMOUNT 0 DRY 22.2 WET 20.6 DEPTH 4267 M

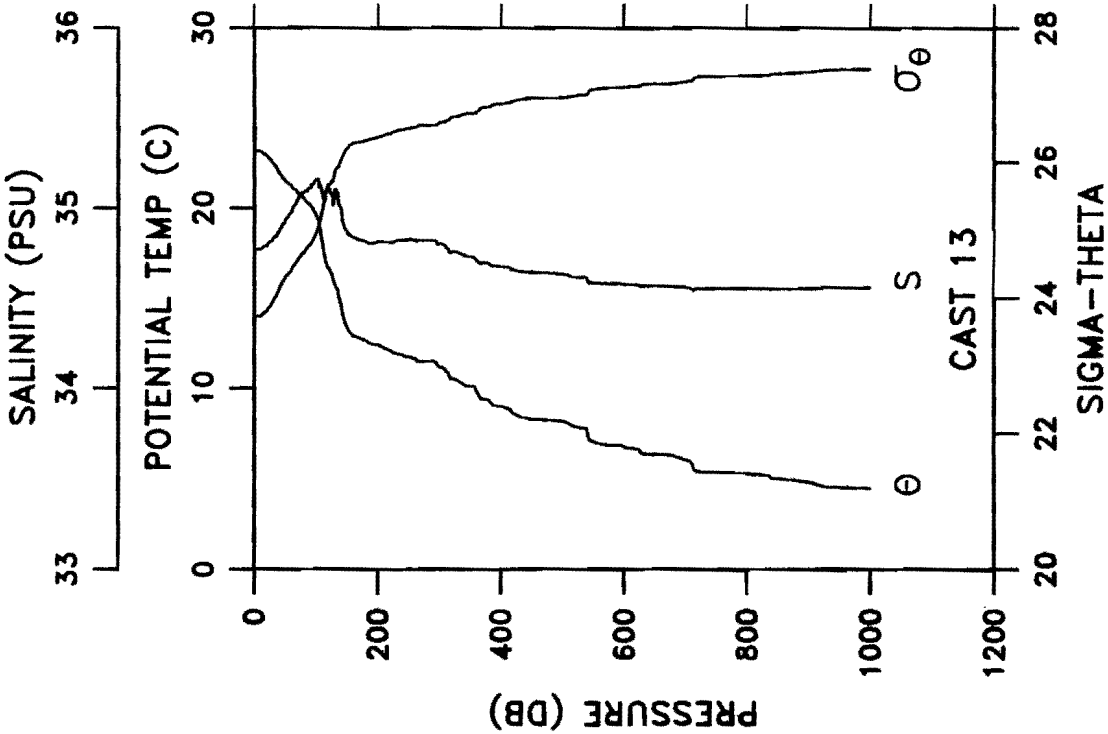


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 22.684 | 34.835 | 23.901 | 0.000 |
| 10 | 22.890 | 34.836 | 23.899 | 0.040 |
| 20 | 22.303 | 34.886 | 24.048 | 0.079 |
| 30 | 22.158 | 34.894 | 24.095 | 0.117 |
| 40 | 21.859 | 34.931 | 24.206 | 0.155 |
| 50 | 21.604 | 34.970 | 24.307 | 0.192 |
| 60 | 21.151 | 35.059 | 24.499 | 0.228 |
| 70 | 20.846 | 35.150 | 24.652 | 0.261 |
| 80 | 20.562 | 35.243 | 24.799 | 0.294 |
| 90 | 19.318 | 35.261 | 25.140 | 0.324 |
| 100 | 16.952 | 35.190 | 25.673 | 0.349 |
| 110 | 15.817 | 35.131 | 25.891 | 0.372 |
| 120 | 14.740 | 35.049 | 26.068 | 0.392 |
| 130 | 13.778 | 34.946 | 26.193 | 0.412 |
| 140 | 13.328 | 34.919 | 26.264 | 0.430 |
| 150 | 12.883 | 34.879 | 26.323 | 0.447 |
| 160 | 12.629 | 34.855 | 26.355 | 0.464 |
| 170 | 12.391 | 34.864 | 26.408 | 0.481 |
| 180 | 12.265 | 34.858 | 26.429 | 0.498 |
| 190 | 12.096 | 34.857 | 26.461 | 0.514 |
| 200 | 12.000 | 34.854 | 26.476 | 0.530 |
| 250 | 11.719 | 34.834 | 26.514 | 0.609 |
| 300 | 11.335 | 34.813 | 26.569 | 0.687 |
| 350 | 10.216 | 34.750 | 26.720 | 0.760 |
| 400 | 8.938 | 34.676 | 26.874 | 0.826 |
| 450 | 8.748 | 34.667 | 26.898 | 0.888 |
| 500 | 8.425 | 34.648 | 26.933 | 0.949 |
| 503 | 8.380 | 34.645 | 26.938 | 0.953 |

CAST EP5-88-OC -013 DATE 21 NOV 88 TIME 0839 GMT
LAT 00 29.4N LONG 140 00.4W

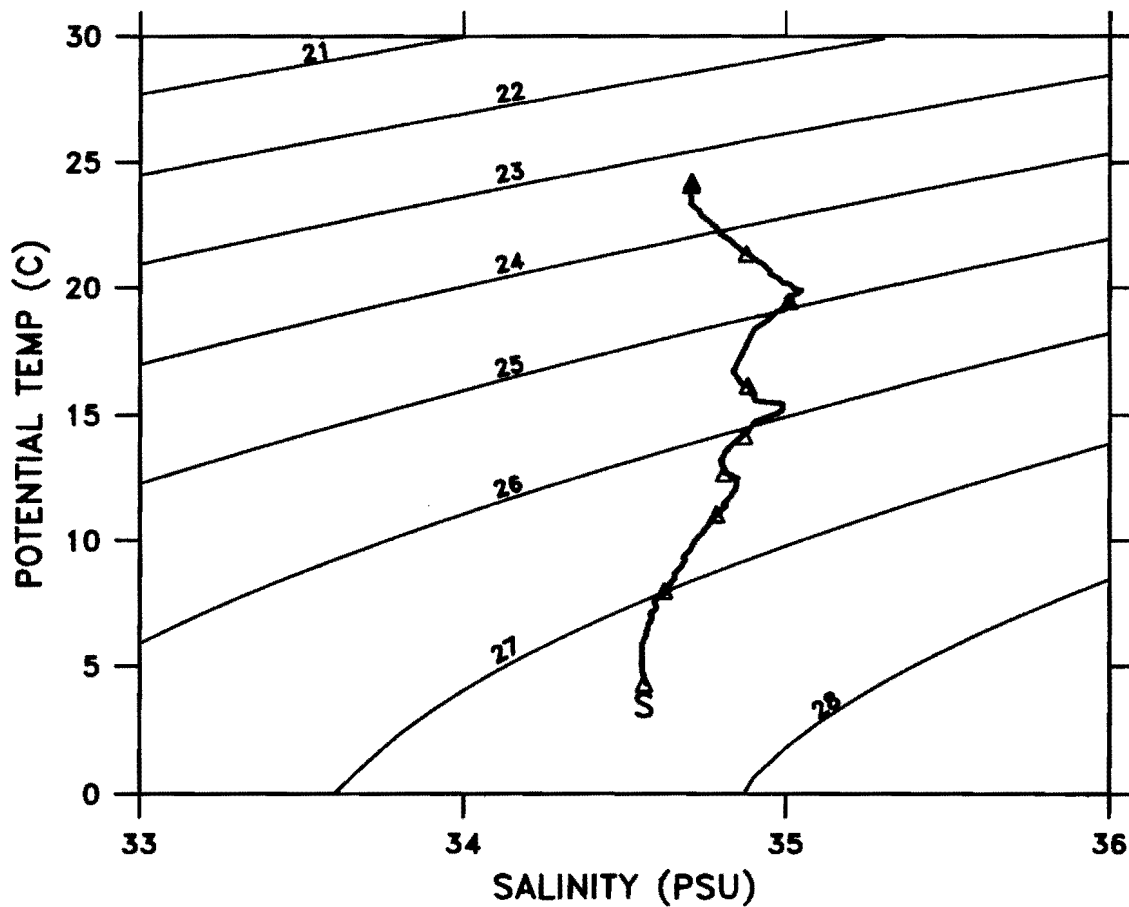


CAST EP5-88-OC -013 DATE 21 NOV 88 TIME 0839 GMT
 LAT 00 29.4N LONG 140 00.4W WEATHER 2 SEA STATE 4
 BAROMETER 13 WIND DIR 100 T SPD 16 KT VISIBILITY 8
 CLOUD 9 AMOUNT 8 DRY 23.1 WET 21.1 DEPTH 4334 M

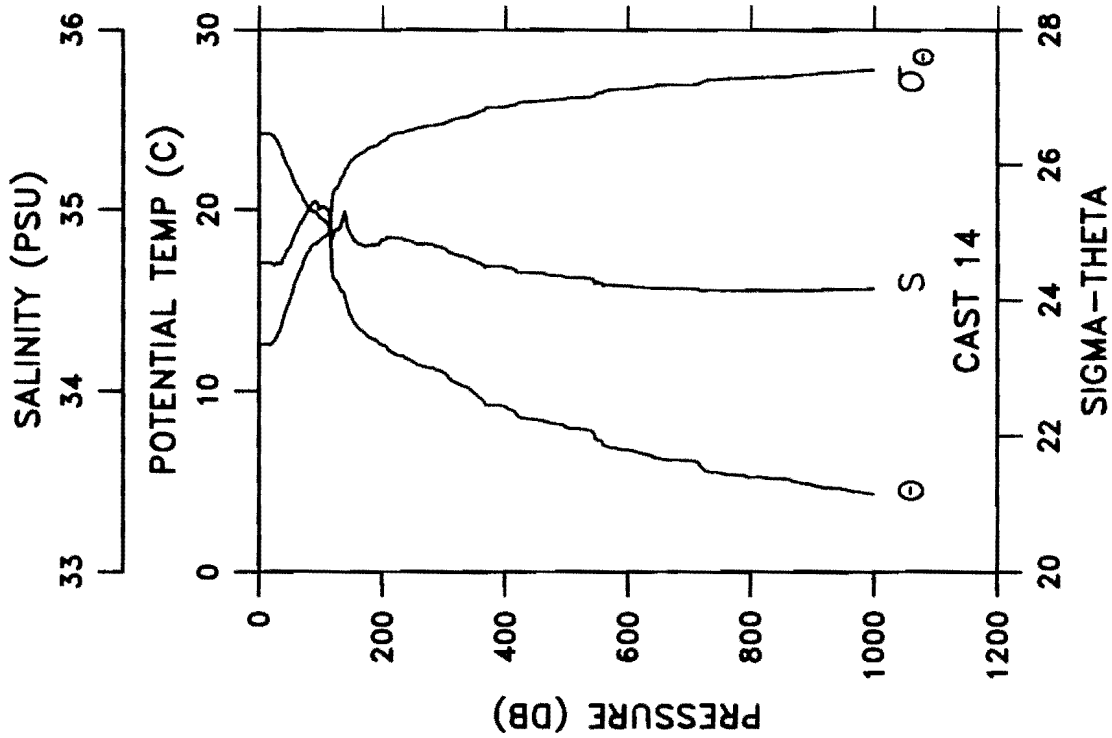


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 23.125 | 34.775 | 23.729 | 0.000 |
| 10 | 23.119 | 34.776 | 23.731 | 0.042 |
| 20 | 22.913 | 34.794 | 23.804 | 0.063 |
| 30 | 22.464 | 34.833 | 23.962 | 0.123 |
| 40 | 21.941 | 34.877 | 24.143 | 0.162 |
| 50 | 21.504 | 34.933 | 24.306 | 0.199 |
| 60 | 21.205 | 34.980 | 24.424 | 0.235 |
| 70 | 20.861 | 35.046 | 24.568 | 0.269 |
| 80 | 20.556 | 35.088 | 24.682 | 0.302 |
| 90 | 20.197 | 35.112 | 24.796 | 0.335 |
| 100 | 19.589 | 35.158 | 24.991 | 0.366 |
| 110 | 18.131 | 35.077 | 25.300 | 0.394 |
| 120 | 16.670 | 35.105 | 25.674 | 0.419 |
| 130 | 15.778 | 35.103 | 25.879 | 0.442 |
| 140 | 14.681 | 34.999 | 26.042 | 0.463 |
| 150 | 13.461 | 34.880 | 26.207 | 0.482 |
| 160 | 12.923 | 34.841 | 26.286 | 0.500 |
| 170 | 12.804 | 34.827 | 26.320 | 0.518 |
| 180 | 12.660 | 34.818 | 26.355 | 0.535 |
| 190 | 12.480 | 34.808 | 26.348 | 0.553 |
| 200 | 12.414 | 34.814 | 26.502 | 0.570 |
| 250 | 11.756 | 34.828 | 26.502 | 0.652 |
| 300 | 11.216 | 34.808 | 26.587 | 0.730 |
| 350 | 10.128 | 34.733 | 26.722 | 0.802 |
| 400 | 9.003 | 34.679 | 26.866 | 0.868 |
| 450 | 8.284 | 34.644 | 26.952 | 0.928 |
| 500 | 8.181 | 34.636 | 26.961 | 0.987 |
| 550 | 7.064 | 34.587 | 27.085 | 1.045 |
| 600 | 6.790 | 34.578 | 27.115 | 1.097 |
| 650 | 6.344 | 34.569 | 27.168 | 1.147 |
| 700 | 6.033 | 34.560 | 27.201 | 1.196 |
| 750 | 5.351 | 34.554 | 27.280 | 1.241 |
| 800 | 5.262 | 34.553 | 27.291 | 1.285 |
| 900 | 4.793 | 34.555 | 27.346 | 1.370 |
| 1000 | 4.462 | 34.561 | 27.388 | 1.450 |
| 1000 | 4.462 | 34.561 | 27.388 | 1.450 |

CAST EP5-88-OC -014 DATE 21 NOV 88 TIME 1255 GMT
LAT 01 00.1N LONG 140 00.2W

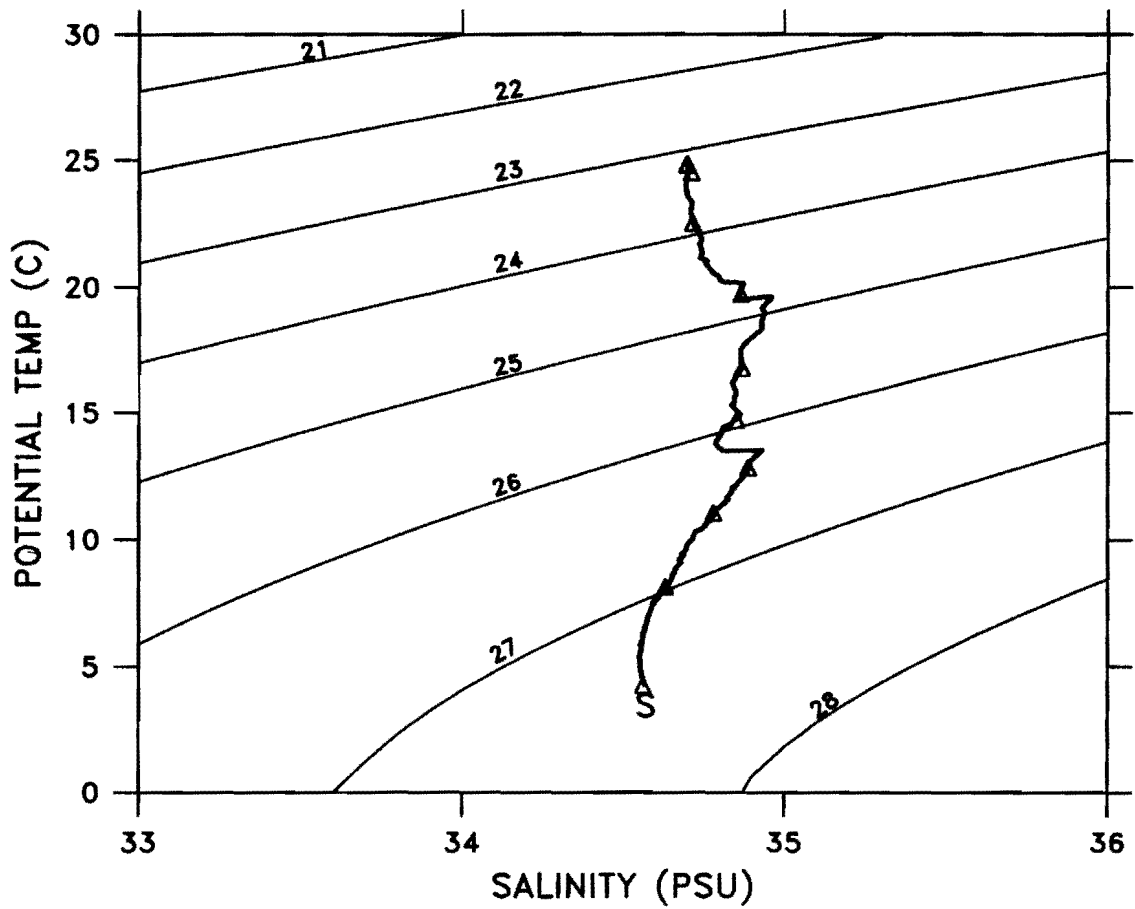


CAS 14
 CAST EP5-88-OC -014 DATE 21 NOV 88 TIME 1255 GMT
 LAT 01 00.1N LONG 140 00.2W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DMR 105 T SPD 22 KT VISIBILITY 8
 CLOUD 6 AMOUNT 7 DRY 23.3 WET 20.9 DEPTH 4309 M

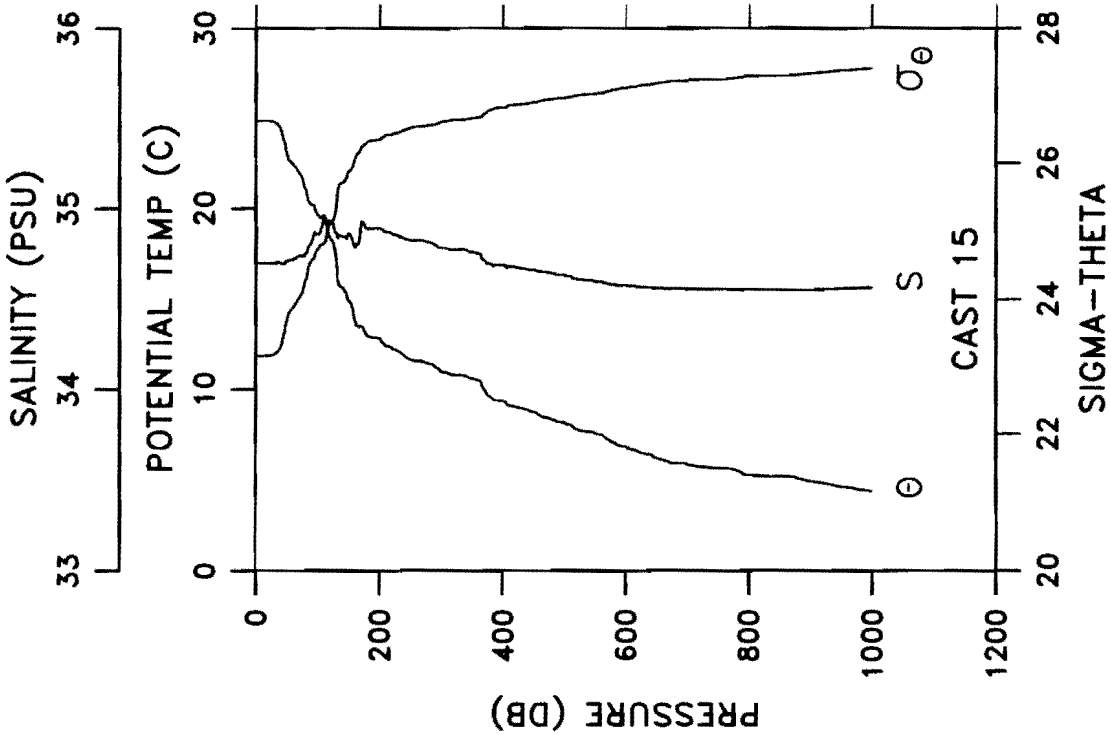


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.211 | 34.706 | 23.358 | 0.000 |
| 10 | 24.212 | 34.705 | 23.357 | 0.045 |
| 20 | 24.170 | 34.703 | 23.368 | 0.090 |
| 30 | 23.710 | 34.703 | 23.503 | 0.135 |
| 40 | 22.905 | 34.734 | 23.761 | 0.178 |
| 50 | 22.178 | 34.794 | 24.013 | 0.218 |
| 60 | 21.366 | 34.877 | 24.301 | 0.256 |
| 70 | 20.767 | 34.941 | 24.514 | 0.291 |
| 80 | 20.154 | 35.004 | 24.725 | 0.324 |
| 90 | 19.899 | 35.046 | 24.825 | 0.356 |
| 100 | 19.523 | 35.016 | 24.900 | 0.387 |
| 110 | 19.233 | 35.001 | 24.963 | 0.418 |
| 120 | 16.249 | 34.858 | 25.582 | 0.446 |
| 130 | 15.756 | 34.900 | 25.727 | 0.470 |
| 140 | 15.084 | 34.975 | 25.939 | 0.492 |
| 150 | 14.084 | 34.859 | 26.061 | 0.512 |
| 160 | 13.560 | 34.814 | 26.136 | 0.532 |
| 170 | 13.244 | 34.800 | 26.190 | 0.551 |
| 180 | 12.960 | 34.803 | 26.249 | 0.569 |
| 190 | 12.808 | 34.806 | 26.281 | 0.587 |
| 200 | 12.571 | 34.831 | 26.348 | 0.604 |
| 250 | 11.643 | 34.822 | 26.519 | 0.686 |
| 300 | 11.035 | 34.788 | 26.604 | 0.762 |
| 350 | 9.910 | 34.717 | 26.746 | 0.834 |
| 400 | 8.126 | 34.683 | 26.850 | 0.899 |
| 450 | 8.425 | 34.651 | 26.935 | 0.960 |
| 500 | 7.981 | 34.625 | 26.983 | 1.019 |
| 550 | 7.306 | 34.598 | 27.059 | 1.076 |
| 600 | 6.750 | 34.580 | 27.125 | 1.129 |
| 650 | 6.267 | 34.567 | 27.176 | 1.179 |
| 700 | 6.155 | 34.566 | 27.190 | 1.227 |
| 750 | 5.476 | 34.555 | 27.266 | 1.274 |
| 800 | 5.246 | 34.554 | 27.293 | 1.318 |
| 800 | 4.826 | 34.553 | 27.341 | 1.404 |
| 1000 | 4.314 | 34.565 | 27.407 | 1.484 |
| 1001 | 4.312 | 34.565 | 27.407 | 1.484 |

CAST EP5-88-OC -015 DATE 21 NOV 88 TIME 1631 GMT
LAT 01 29.7N LONG 140 00.5W

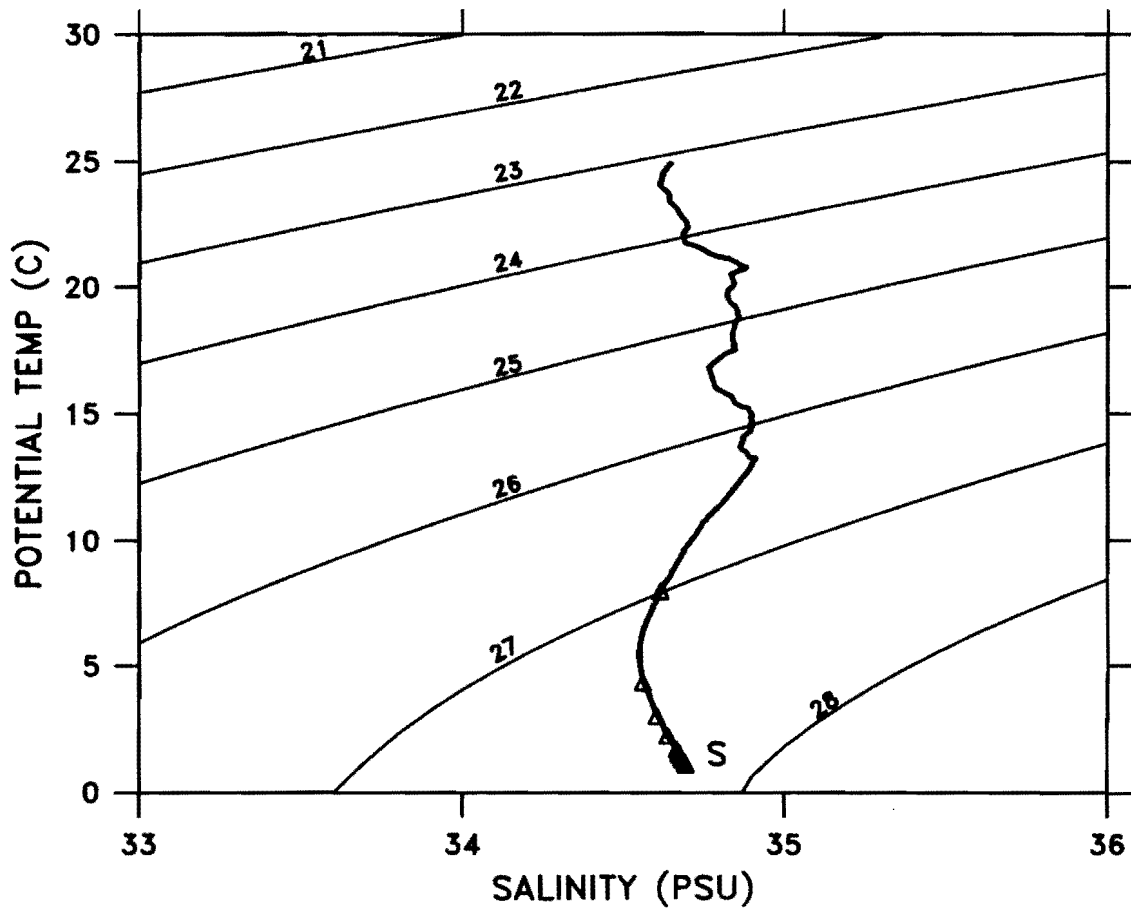


CAST EPS-88-OC -015 DATE 21 NOV 88 TIME 1631 GMT
 LAT 01 29.7N LONG 140 00.5W WEATHER 2 SEA STATE 4
 BAROMETER 13 WIND DIR 125 T SPD 18 KT VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 24.0 WET 21.2 DEPTH 4823 M

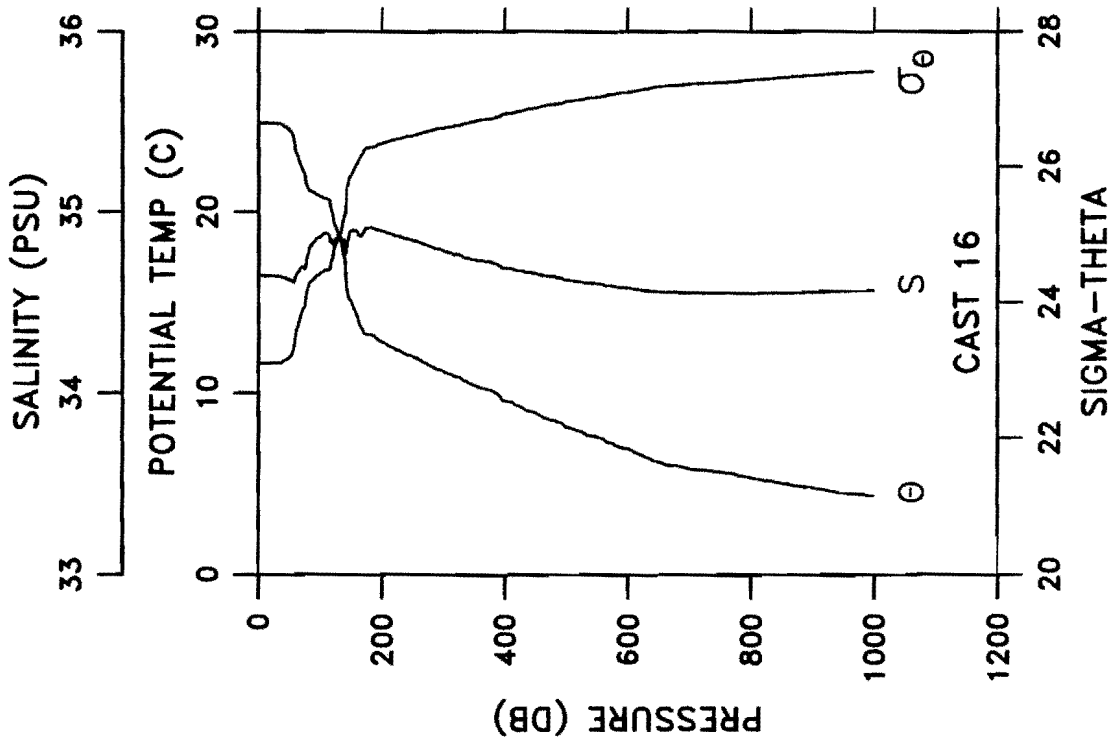


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.827 | 34.699 | 23.168 | 0.000 |
| 10 | 24.834 | 34.697 | 23.165 | 0.047 |
| 20 | 24.826 | 34.698 | 23.167 | 0.094 |
| 30 | 24.755 | 34.701 | 23.191 | 0.141 |
| 40 | 24.430 | 34.700 | 23.288 | 0.187 |
| 50 | 23.023 | 34.708 | 23.707 | 0.232 |
| 60 | 22.456 | 34.717 | 23.876 | 0.273 |
| 70 | 21.958 | 34.740 | 24.033 | 0.312 |
| 80 | 21.068 | 34.755 | 24.291 | 0.350 |
| 90 | 20.192 | 34.815 | 24.571 | 0.385 |
| 100 | 19.665 | 34.859 | 24.743 | 0.419 |
| 110 | 19.615 | 34.950 | 24.826 | 0.451 |
| 120 | 18.397 | 34.931 | 25.122 | 0.481 |
| 130 | 17.115 | 34.865 | 25.384 | 0.509 |
| 140 | 15.666 | 34.848 | 25.707 | 0.533 |
| 150 | 14.926 | 34.863 | 25.884 | 0.555 |
| 160 | 13.820 | 34.786 | 26.060 | 0.576 |
| 170 | 13.500 | 34.907 | 26.220 | 0.595 |
| 180 | 12.983 | 34.889 | 26.311 | 0.613 |
| 190 | 12.868 | 34.887 | 26.332 | 0.631 |
| 200 | 12.830 | 34.893 | 26.345 | 0.648 |
| 250 | 11.670 | 34.824 | 26.516 | 0.730 |
| 300 | 11.009 | 34.782 | 26.605 | 0.807 |
| 350 | 10.584 | 34.760 | 26.663 | 0.881 |
| 400 | 9.371 | 34.688 | 26.814 | 0.950 |
| 450 | 8.731 | 34.661 | 26.895 | 1.013 |
| 500 | 8.148 | 34.635 | 26.965 | 1.073 |
| 550 | 7.555 | 34.599 | 27.025 | 1.130 |
| 600 | 6.807 | 34.576 | 27.112 | 1.184 |
| 650 | 6.177 | 34.562 | 27.184 | 1.234 |
| 700 | 5.815 | 34.555 | 27.225 | 1.282 |
| 750 | 5.634 | 34.556 | 27.248 | 1.328 |
| 800 | 5.233 | 34.554 | 27.294 | 1.373 |
| 900 | 4.902 | 34.554 | 27.333 | 1.459 |
| 1000 | 4.351 | 34.565 | 27.403 | 1.540 |
| 1015 | 4.299 | 34.566 | 27.410 | 1.552 |

CAST EP5-88-OC -016 DATE 22 NOV 88 TIME 0938 GMT
LAT 02 00.6N LONG 140 00.4W

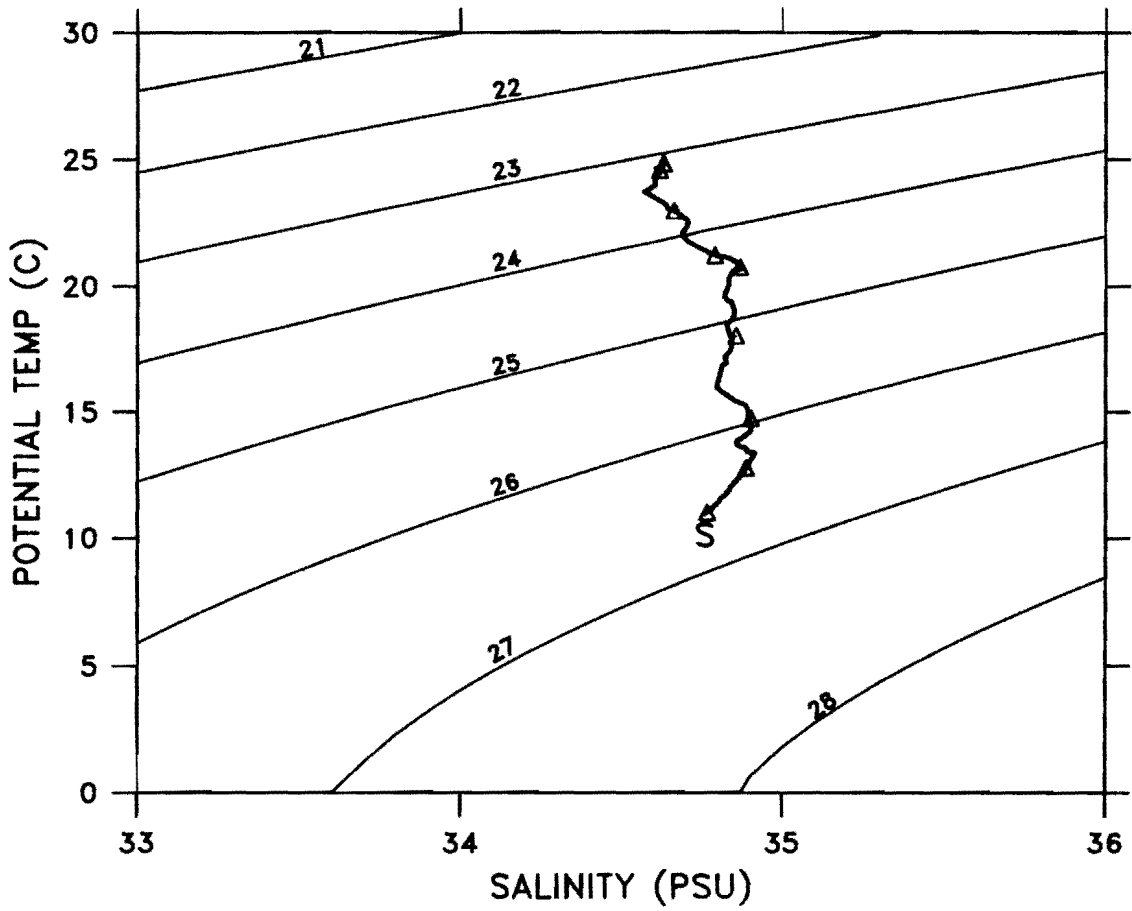


CAST EP5-88-OC -016 DATE 22 NOV 88 TIME 0938 GMT
 LAT 02 00.6N LONG 140 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 060 T SPD 18 KT VISIBILITY 7
 CLOUD 3 AMOUNT 3 DRY 23.5 WET 19.8 DEPTH 4371 M

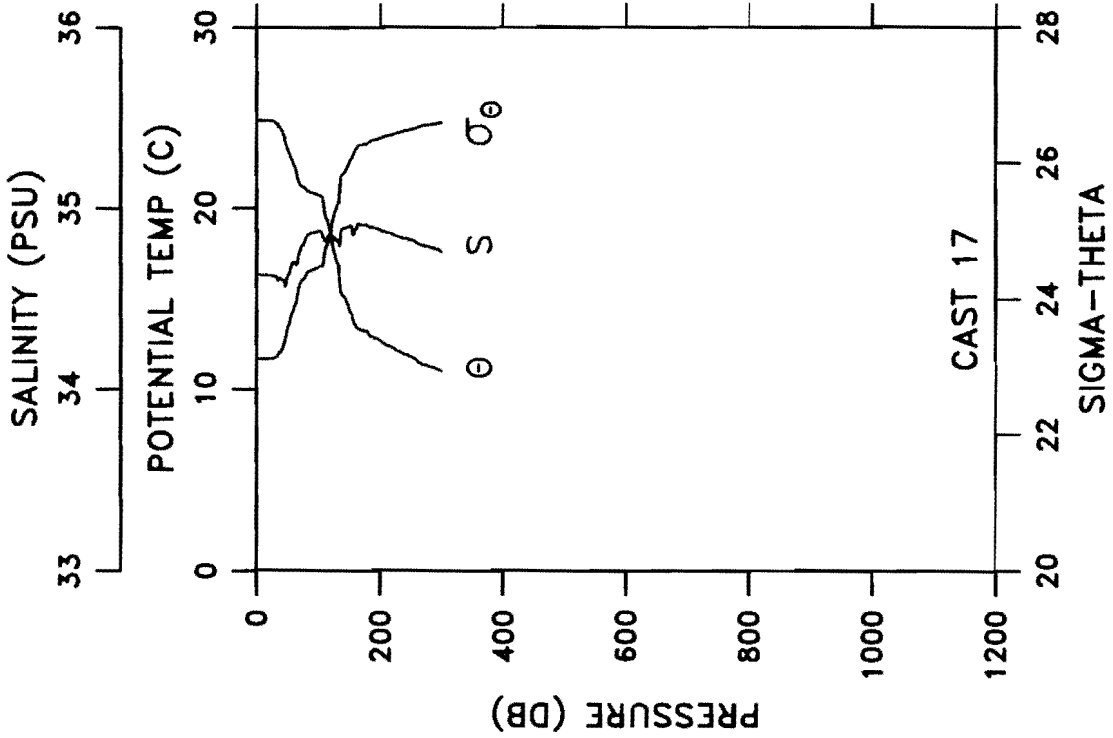


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.919 | 34.648 | 23.102 | 0.000 |
| 10 | 24.913 | 34.649 | 23.104 | 0.048 |
| 20 | 24.905 | 34.647 | 23.105 | 0.095 |
| 30 | 24.881 | 34.645 | 23.111 | 0.143 |
| 40 | 24.782 | 34.637 | 23.135 | 0.190 |
| 50 | 24.578 | 34.628 | 23.189 | 0.238 |
| 60 | 23.377 | 34.643 | 23.556 | 0.284 |
| 70 | 22.444 | 34.697 | 23.864 | 0.326 |
| 80 | 21.350 | 34.765 | 24.220 | 0.365 |
| 90 | 21.066 | 34.837 | 24.353 | 0.401 |
| 100 | 20.867 | 34.862 | 24.426 | 0.437 |
| 110 | 20.727 | 34.881 | 24.478 | 0.472 |
| 120 | 19.901 | 34.826 | 24.656 | 0.506 |
| 130 | 18.774 | 34.859 | 24.972 | 0.538 |
| 140 | 17.355 | 34.817 | 25.290 | 0.566 |
| 150 | 15.070 | 34.893 | 25.875 | 0.590 |
| 160 | 14.278 | 34.893 | 26.046 | 0.610 |
| 170 | 13.375 | 34.887 | 26.230 | 0.629 |
| 180 | 13.221 | 34.912 | 26.281 | 0.647 |
| 190 | 13.072 | 34.903 | 26.304 | 0.665 |
| 200 | 12.843 | 34.894 | 26.343 | 0.683 |
| 250 | 12.043 | 34.841 | 26.458 | 0.766 |
| 300 | 11.215 | 34.786 | 26.570 | 0.845 |
| 350 | 10.457 | 34.736 | 26.671 | 0.919 |
| 400 | 9.576 | 34.690 | 26.782 | 0.990 |
| 450 | 8.921 | 34.660 | 26.865 | 1.055 |
| 500 | 8.119 | 34.624 | 26.961 | 1.116 |
| 550 | 7.560 | 34.604 | 27.028 | 1.174 |
| 600 | 6.921 | 34.580 | 27.089 | 1.228 |
| 650 | 6.201 | 34.559 | 27.179 | 1.278 |
| 700 | 5.834 | 34.552 | 27.219 | 1.326 |
| 750 | 5.651 | 34.551 | 27.242 | 1.373 |
| 800 | 5.340 | 34.549 | 27.278 | 1.418 |
| 900 | 4.802 | 34.555 | 27.345 | 1.503 |
| 1000 | 4.334 | 34.565 | 27.405 | 1.583 |
| 1500 | 2.965 | 34.610 | 27.577 | 1.923 |
| 2000 | 2.226 | 34.639 | 27.664 | 2.207 |
| 2500 | 1.674 | 34.667 | 27.730 | 2.456 |
| 3000 | 1.491 | 34.674 | 27.750 | 2.689 |
| 3500 | 1.198 | 34.690 | 27.783 | 2.911 |
| 4000 | 1.109 | 34.694 | 27.792 | 3.125 |
| 4247 | 1.090 | 34.695 | 27.794 | 3.233 |

CAST EP5-88-OC -017 DATE 22 NOV 88 TIME 1328 GMT
LAT 02 00.2N LONG 140 00.7W

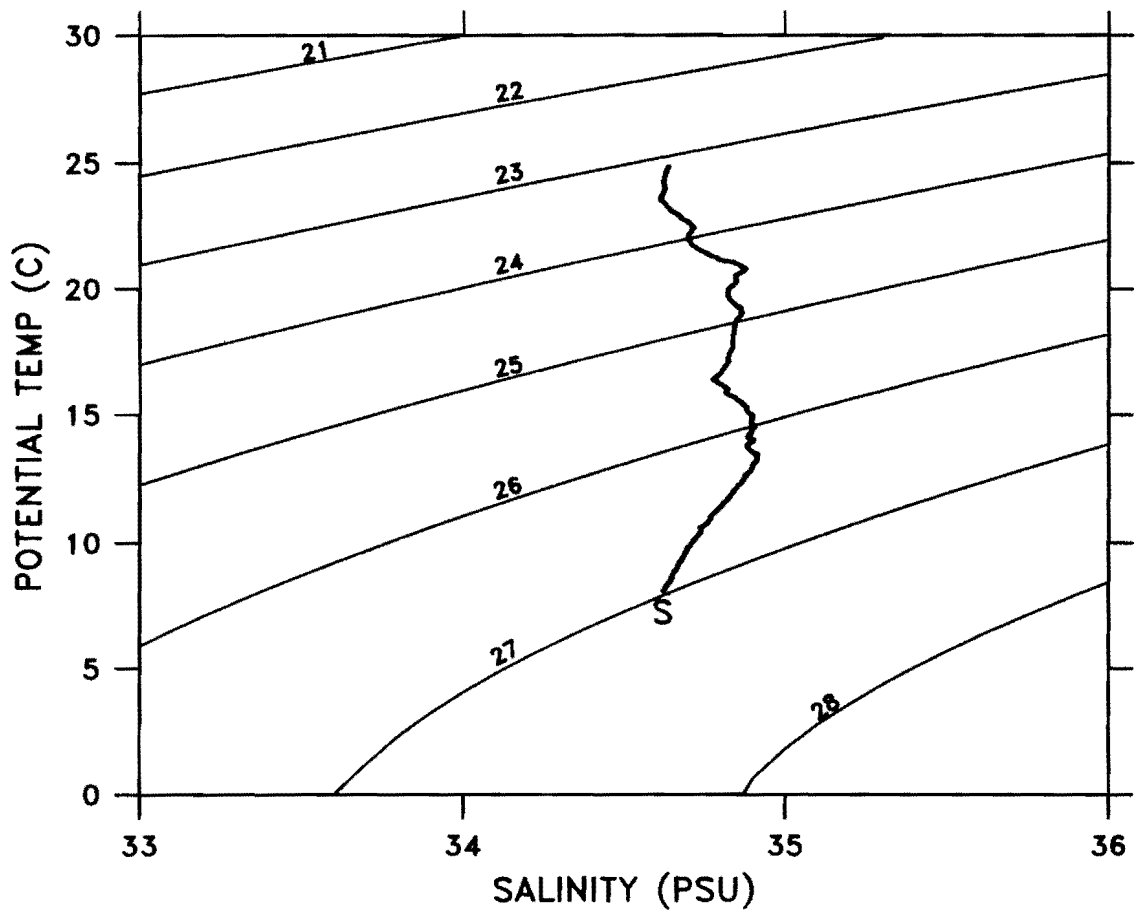


CAST EP5-88-0C -017 DATE 22 NOV 88 TIME 1328 GMT
 LAT 02 00.2N LONG 140 00.7W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 095 T SPD 16 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 23.4 WET 19.8 DEPTH 4371 M

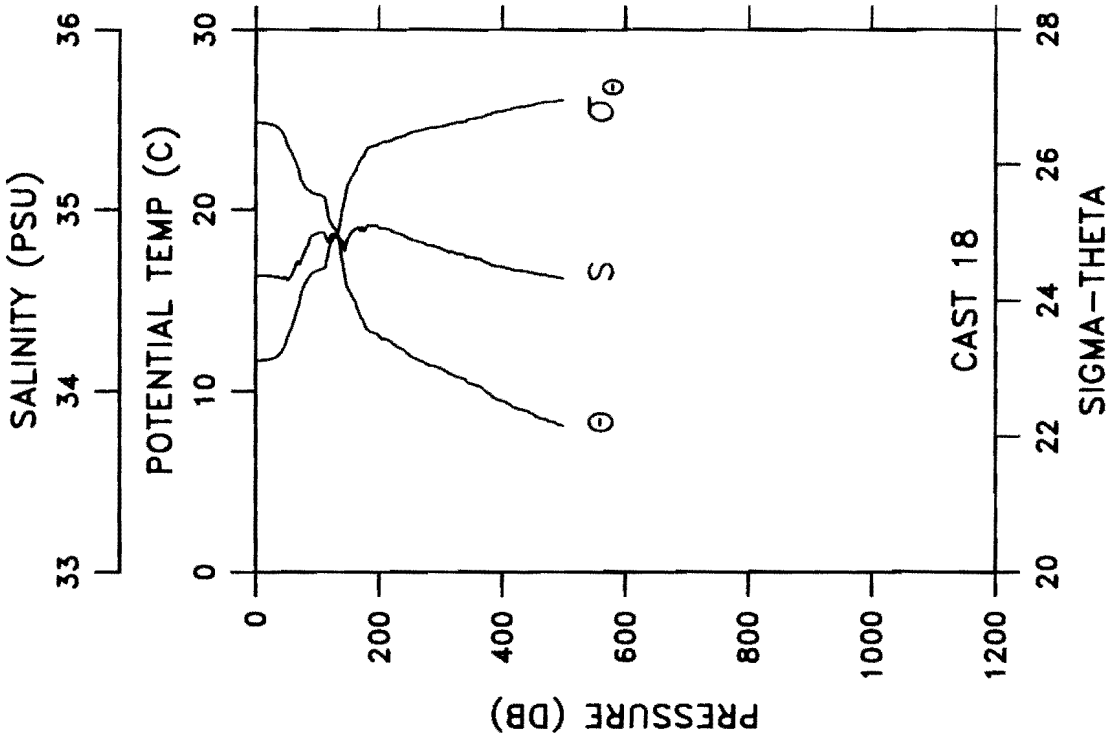


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.845 | 34.637 | 23.115 | 0.000 |
| 10 | 24.842 | 34.634 | 23.114 | 0.047 |
| 20 | 24.833 | 34.633 | 23.116 | 0.095 |
| 30 | 24.748 | 34.628 | 23.138 | 0.142 |
| 40 | 24.359 | 34.610 | 23.241 | 0.189 |
| 50 | 23.270 | 34.629 | 23.576 | 0.235 |
| 60 | 22.460 | 34.706 | 23.866 | 0.276 |
| 70 | 21.333 | 34.768 | 24.228 | 0.315 |
| 80 | 21.036 | 34.839 | 24.363 | 0.352 |
| 90 | 20.854 | 34.864 | 24.431 | 0.387 |
| 100 | 20.723 | 34.874 | 24.474 | 0.422 |
| 110 | 19.820 | 34.826 | 24.677 | 0.457 |
| 120 | 18.700 | 34.844 | 24.979 | 0.488 |
| 130 | 17.035 | 34.824 | 25.372 | 0.516 |
| 140 | 15.174 | 34.889 | 25.849 | 0.540 |
| 150 | 14.468 | 34.901 | 26.011 | 0.561 |
| 160 | 13.556 | 34.884 | 26.190 | 0.581 |
| 170 | 13.272 | 34.908 | 26.267 | 0.599 |
| 180 | 13.169 | 34.904 | 26.285 | 0.617 |
| 190 | 12.884 | 34.895 | 26.336 | 0.634 |
| 200 | 12.714 | 34.884 | 26.361 | 0.652 |
| 250 | 11.814 | 34.829 | 26.492 | 0.734 |
| 300 | 10.992 | 34.762 | 26.592 | 0.811 |
| 300 | 10.992 | 34.762 | 26.592 | 0.811 |

CAST EP5-88-OC -018 DATE 22 NOV 88 TIME 2234 GMT
LAT 01 57.8N LONG 140 04.5W

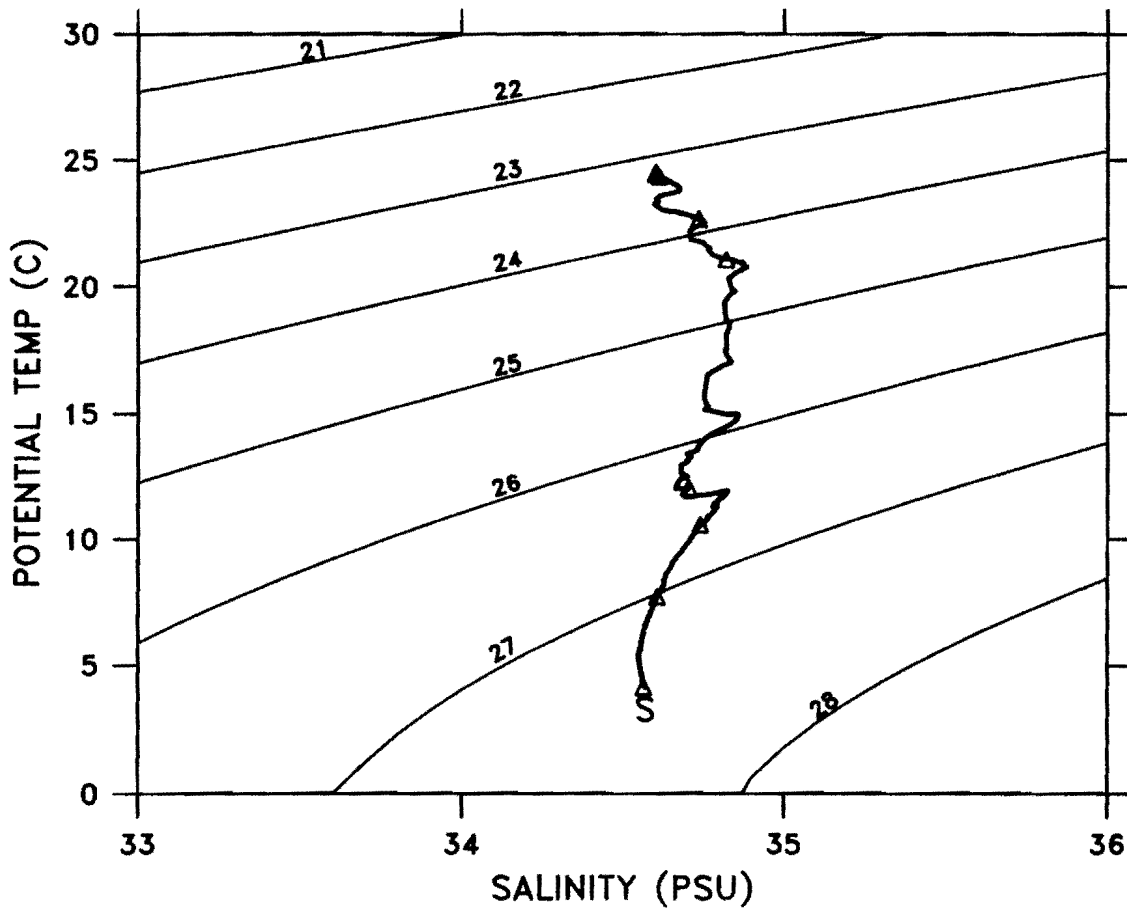


CAST EP5-88-OC -018 DATE 22 NOV 88 TIME 2234 GMT
 LAT 01 57.8N LONG 140 04.5W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 110 T SPD 10 KT VISIBILITY 7
 CLOUD 4 AMOUNT 2 DRY 24.8 WET 21.0 DEPTH 4385 M

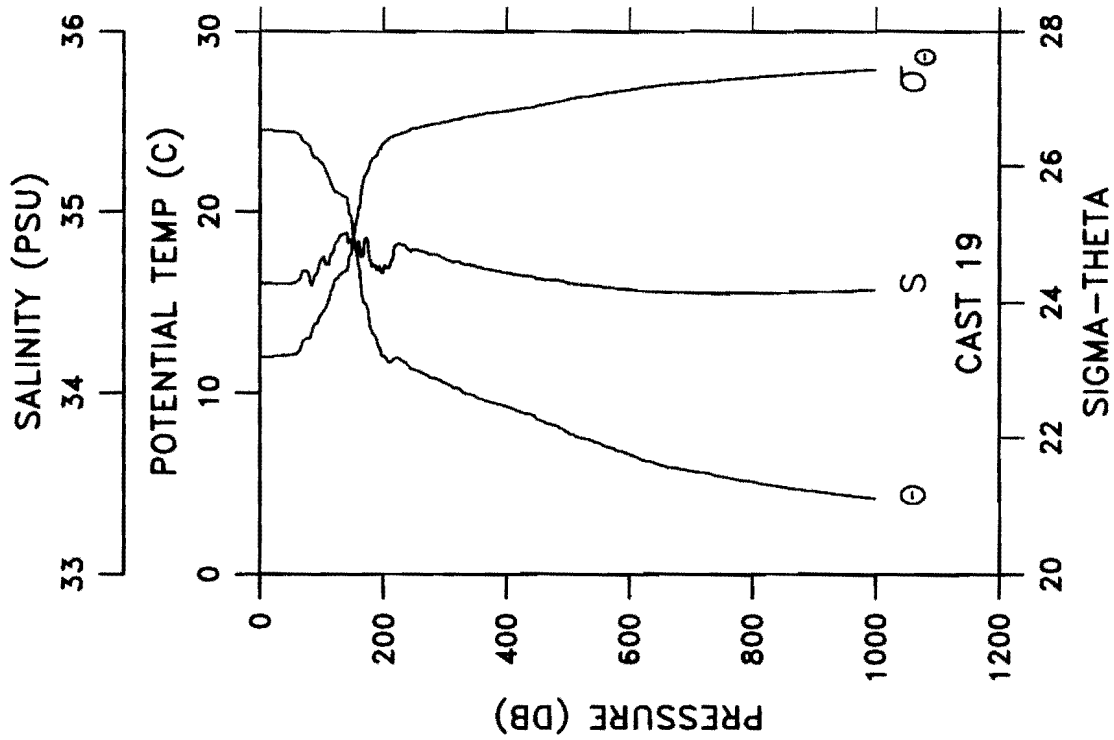


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.842 | 34.637 | 23.117 | 0.000 |
| 10 | 24.811 | 34.635 | 23.124 | 0.047 |
| 20 | 24.774 | 34.634 | 23.135 | 0.095 |
| 30 | 24.689 | 34.630 | 23.158 | 0.142 |
| 40 | 24.427 | 34.625 | 23.232 | 0.189 |
| 50 | 23.648 | 34.613 | 23.454 | 0.235 |
| 60 | 23.013 | 34.660 | 23.674 | 0.278 |
| 70 | 22.158 | 34.699 | 23.946 | 0.319 |
| 80 | 21.239 | 34.787 | 24.268 | 0.357 |
| 90 | 20.972 | 34.853 | 24.391 | 0.394 |
| 100 | 20.842 | 34.870 | 24.439 | 0.429 |
| 110 | 20.729 | 34.875 | 24.473 | 0.464 |
| 120 | 19.345 | 34.846 | 24.816 | 0.498 |
| 130 | 18.865 | 34.856 | 24.947 | 0.529 |
| 140 | 17.161 | 34.822 | 25.340 | 0.558 |
| 150 | 15.614 | 34.847 | 25.719 | 0.582 |
| 160 | 15.014 | 34.893 | 25.887 | 0.605 |
| 170 | 14.121 | 34.883 | 26.072 | 0.625 |
| 180 | 13.467 | 34.910 | 26.229 | 0.644 |
| 190 | 13.259 | 34.911 | 26.272 | 0.662 |
| 200 | 13.042 | 34.900 | 26.307 | 0.680 |
| 250 | 11.971 | 34.841 | 26.471 | 0.765 |
| 300 | 11.271 | 34.790 | 26.563 | 0.844 |
| 350 | 10.420 | 34.738 | 26.675 | 0.918 |
| 400 | 9.487 | 34.686 | 26.793 | 0.987 |
| 450 | 8.768 | 34.653 | 26.884 | 1.052 |
| 499 | 8.106 | 34.622 | 26.961 | 1.111 |

CAST EP5-88-OC -019 DATE 23 NOV 88 TIME 0408 GMT
LAT 02 59.7N LONG 140 01.6W

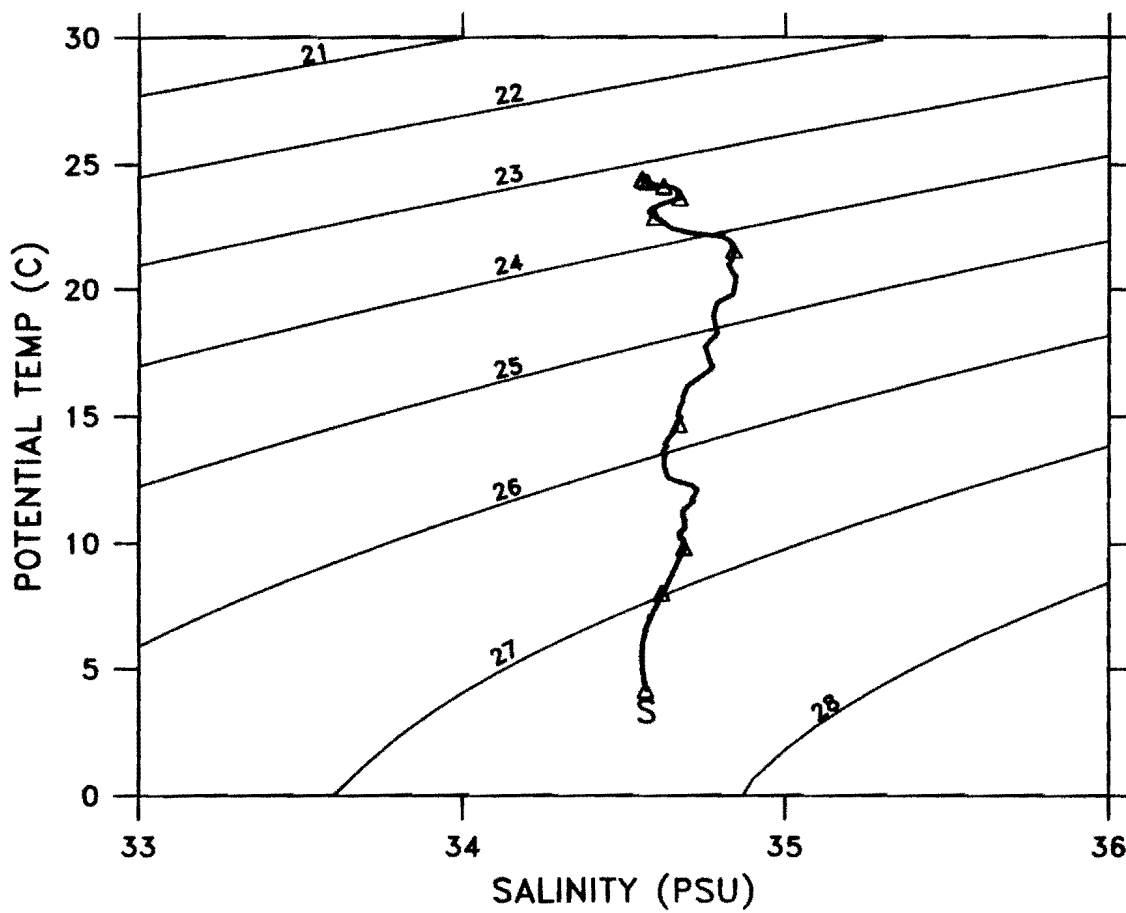


CST EP5-86-OC -019 DATE 23 NOV 88 TIME 0408 GMT
 LAT 02 59.7N LONG 140 01.6W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 110 T SPD 13 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 23.9 WET 21.5 DEPTH 4297 M

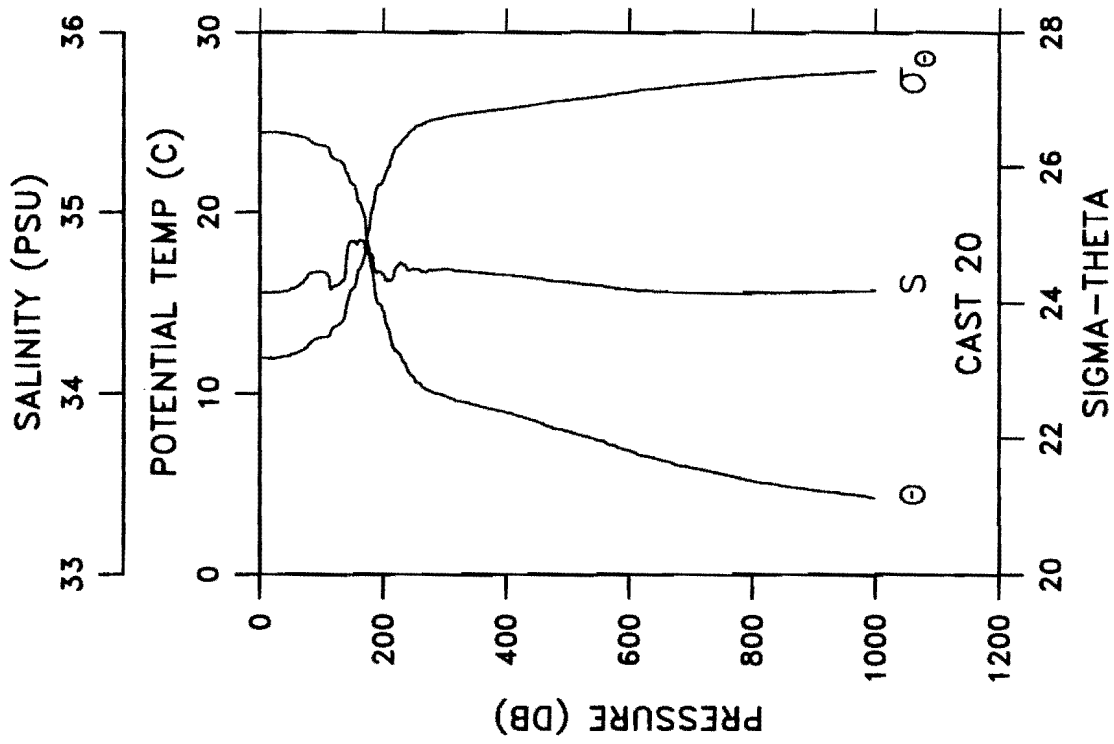


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-M (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.514 | 34.616 | 23.199 | 0.000 |
| 10 | 24.519 | 34.607 | 23.191 | 0.047 |
| 20 | 24.507 | 34.606 | 23.194 | 0.094 |
| 30 | 24.446 | 34.604 | 23.211 | 0.140 |
| 40 | 24.436 | 34.604 | 23.214 | 0.187 |
| 50 | 24.422 | 34.606 | 23.219 | 0.234 |
| 60 | 24.346 | 34.617 | 23.250 | 0.280 |
| 70 | 23.883 | 34.675 | 23.432 | 0.326 |
| 80 | 23.642 | 34.636 | 23.473 | 0.370 |
| 90 | 22.960 | 34.654 | 23.685 | 0.414 |
| 100 | 22.661 | 34.740 | 23.835 | 0.455 |
| 110 | 21.957 | 34.710 | 24.011 | 0.496 |
| 120 | 21.108 | 34.811 | 24.322 | 0.534 |
| 130 | 20.955 | 34.873 | 24.411 | 0.570 |
| 140 | 20.765 | 34.884 | 24.471 | 0.605 |
| 150 | 19.035 | 34.817 | 24.873 | 0.638 |
| 160 | 17.002 | 34.838 | 25.390 | 0.667 |
| 170 | 14.993 | 34.855 | 25.862 | 0.691 |
| 180 | 13.502 | 34.718 | 26.073 | 0.712 |
| 190 | 12.804 | 34.681 | 26.186 | 0.731 |
| 200 | 12.025 | 34.692 | 26.345 | 0.749 |
| 250 | 11.270 | 34.742 | 26.565 | 0.829 |
| 300 | 10.552 | 34.699 | 26.655 | 0.904 |
| 350 | 9.796 | 34.665 | 26.752 | 0.974 |
| 400 | 9.226 | 34.665 | 26.820 | 1.040 |
| 450 | 8.541 | 34.634 | 26.904 | 1.104 |
| 500 | 7.813 | 34.611 | 26.997 | 1.163 |
| 550 | 7.224 | 34.592 | 27.066 | 1.219 |
| 600 | 6.624 | 34.573 | 27.134 | 1.271 |
| 650 | 6.030 | 34.560 | 27.202 | 1.320 |
| 700 | 5.701 | 34.554 | 27.238 | 1.366 |
| 750 | 5.352 | 34.550 | 27.277 | 1.412 |
| 800 | 5.068 | 34.553 | 27.313 | 1.455 |
| 900 | 4.551 | 34.560 | 27.377 | 1.537 |
| 999 | 4.140 | 34.569 | 27.429 | 1.612 |

CAST EP5-88-OC -020 DATE 23 NOV 88 TIME 0940 GMT
LAT 03 59.4N LONG 139 59.6W

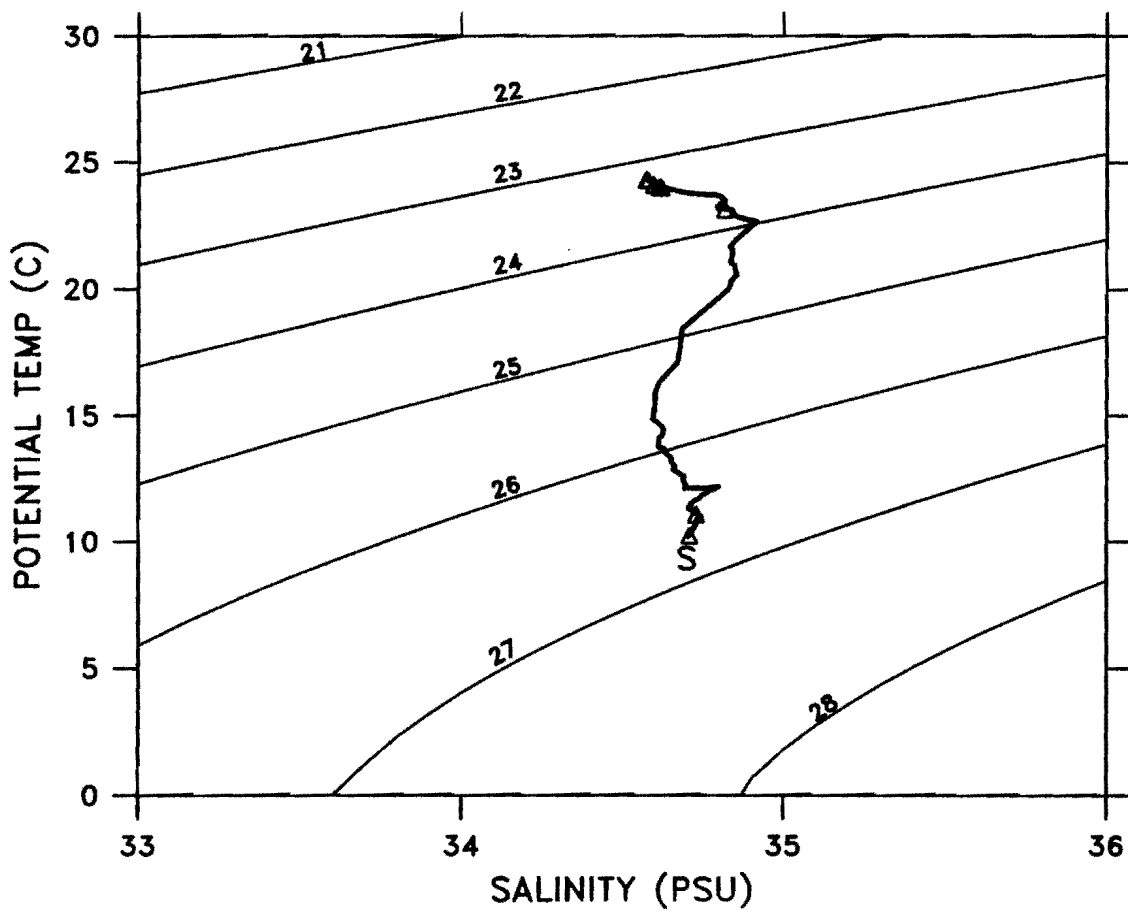


CAST EPS-88-0C -020 DATE 23 NOV 88 TIME 0940 GMT
 LAT 03 59.4N LONG 139 59.6W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 140 T SPD 15 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 24.4 WET 22.1 DEPTH 4340 M

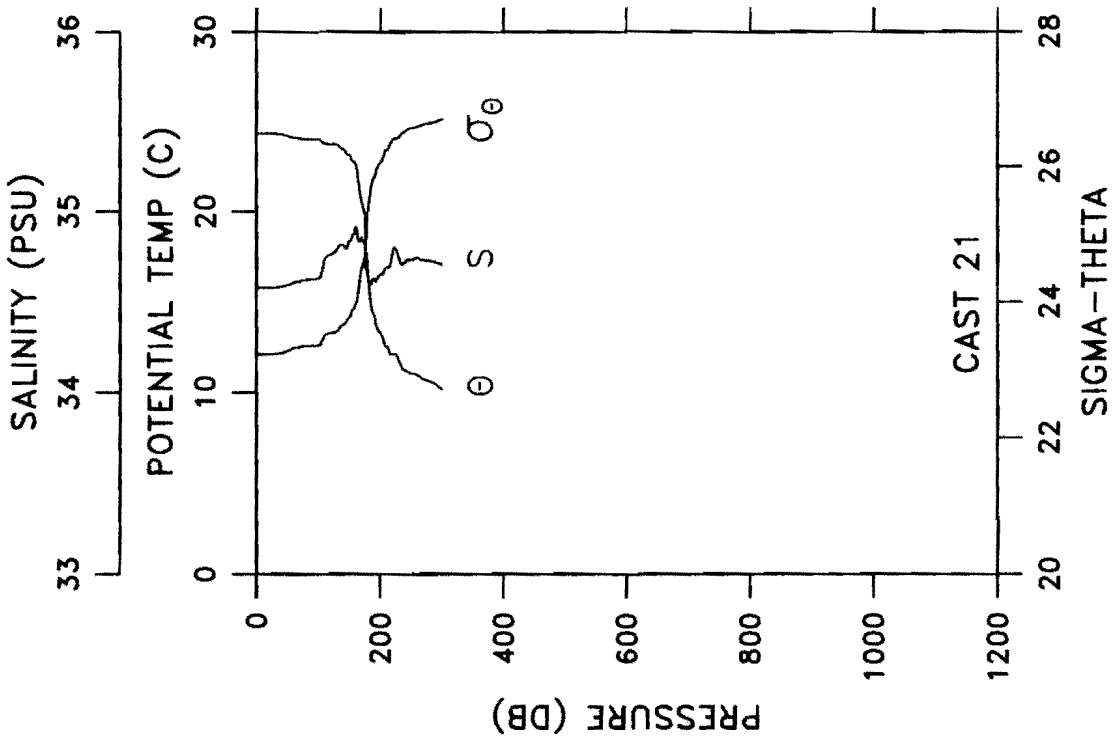


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.407 | 34.560 | 23.189 | 0.000 |
| 10 | 24.410 | 34.560 | 23.188 | 0.047 |
| 20 | 24.413 | 34.560 | 23.187 | 0.094 |
| 30 | 24.396 | 34.561 | 23.193 | 0.140 |
| 40 | 24.351 | 34.567 | 23.211 | 0.187 |
| 50 | 24.267 | 34.581 | 23.247 | 0.234 |
| 60 | 24.223 | 34.591 | 23.267 | 0.280 |
| 70 | 24.151 | 34.615 | 23.307 | 0.326 |
| 80 | 23.981 | 34.664 | 23.394 | 0.372 |
| 90 | 23.756 | 34.672 | 23.467 | 0.417 |
| 100 | 23.665 | 34.674 | 23.495 | 0.461 |
| 110 | 23.583 | 34.656 | 23.505 | 0.505 |
| 120 | 22.943 | 34.592 | 23.642 | 0.549 |
| 130 | 22.822 | 34.607 | 23.688 | 0.592 |
| 140 | 22.200 | 34.741 | 23.966 | 0.633 |
| 150 | 21.575 | 34.841 | 24.216 | 0.672 |
| 160 | 20.557 | 34.845 | 24.497 | 0.708 |
| 170 | 19.779 | 34.835 | 24.695 | 0.743 |
| 180 | 17.077 | 34.769 | 25.319 | 0.773 |
| 190 | 15.038 | 34.667 | 25.708 | 0.798 |
| 200 | 14.547 | 34.662 | 25.811 | 0.821 |
| 250 | 10.838 | 34.686 | 26.561 | 0.911 |
| 300 | 9.877 | 34.691 | 26.732 | 0.982 |
| 350 | 9.368 | 34.672 | 26.802 | 1.049 |
| 400 | 8.949 | 34.656 | 26.857 | 1.113 |
| 450 | 8.446 | 34.638 | 26.922 | 1.175 |
| 500 | 7.910 | 34.618 | 26.987 | 1.234 |
| 550 | 7.407 | 34.598 | 27.045 | 1.291 |
| 600 | 6.822 | 34.576 | 27.109 | 1.344 |
| 650 | 6.323 | 34.564 | 27.167 | 1.395 |
| 700 | 5.877 | 34.557 | 27.219 | 1.443 |
| 750 | 5.533 | 34.556 | 27.260 | 1.489 |
| 800 | 5.142 | 34.558 | 27.309 | 1.533 |
| 900 | 4.628 | 34.561 | 27.370 | 1.616 |
| 1000 | 4.189 | 34.571 | 27.425 | 1.693 |
| 1002 | 4.173 | 34.570 | 27.426 | 1.695 |

CAST EP5-88-OC -021 DATE 23 NOV 88 TIME 1554 GMT
LAT 05 08.3N LONG 140 03.7W

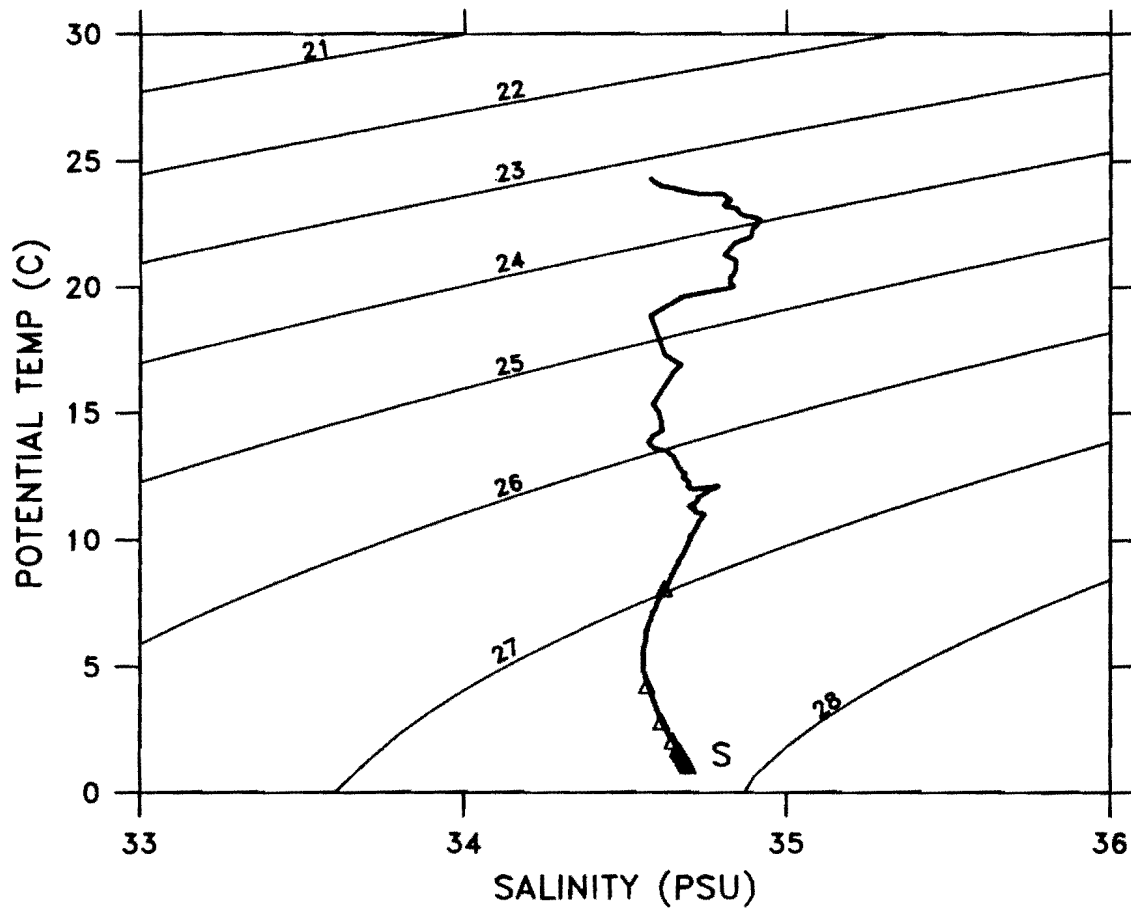


CAST EP5-88-OC -021 DATE 23 NOV 88 TIME 1554 GMT
 LAT 05 08.3N LONG 140 03.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 140 T SPD 14 KT VISIBILITY 8
 CLOUD 4 AMOUNT 6 DRY 24.5 WET 22.2 DEPTH 4352 M

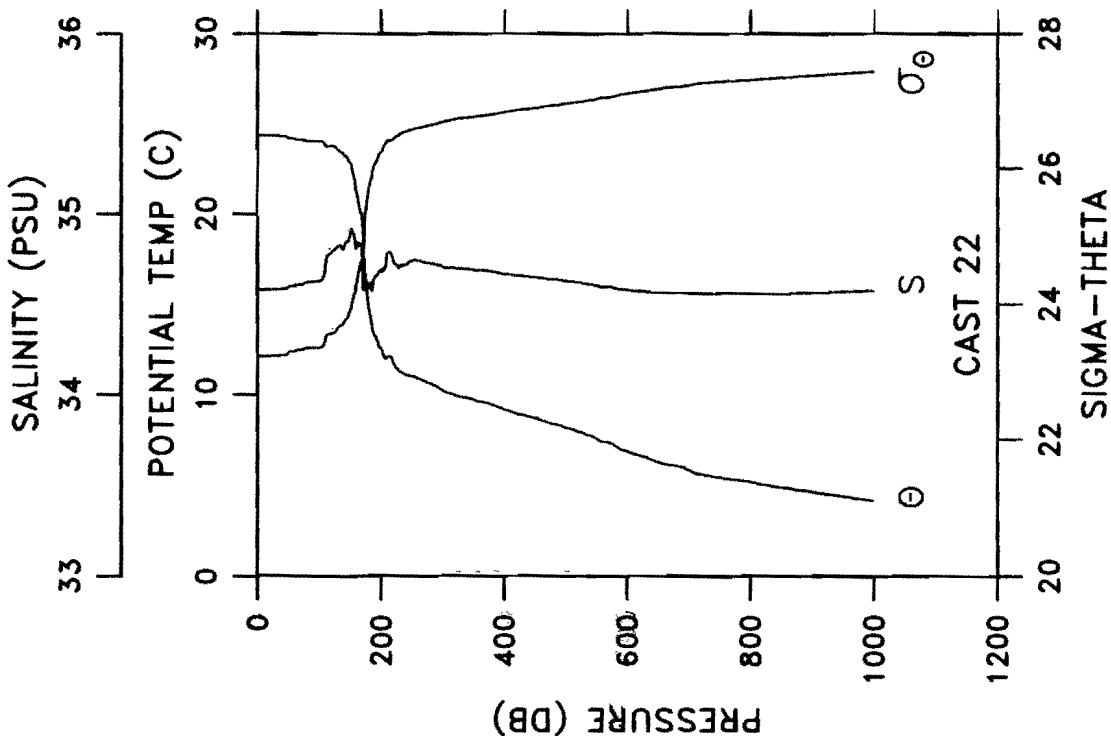


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.294 | 34.584 | 23.241 | 0.000 |
| 10 | 24.303 | 34.578 | 23.234 | 0.046 |
| 20 | 24.304 | 34.578 | 23.233 | 0.093 |
| 30 | 24.288 | 34.579 | 23.239 | 0.139 |
| 40 | 24.257 | 34.583 | 23.251 | 0.185 |
| 50 | 24.168 | 34.592 | 23.284 | 0.232 |
| 60 | 24.067 | 34.605 | 23.325 | 0.278 |
| 70 | 24.020 | 34.613 | 23.344 | 0.323 |
| 80 | 23.996 | 34.619 | 23.356 | 0.369 |
| 90 | 23.997 | 34.625 | 23.360 | 0.414 |
| 100 | 24.001 | 34.630 | 23.363 | 0.460 |
| 110 | 23.746 | 34.735 | 23.517 | 0.505 |
| 120 | 23.720 | 34.761 | 23.544 | 0.549 |
| 130 | 23.712 | 34.790 | 23.569 | 0.592 |
| 140 | 23.447 | 34.814 | 23.664 | 0.636 |
| 150 | 23.119 | 34.835 | 23.776 | 0.678 |
| 160 | 22.664 | 34.917 | 23.968 | 0.719 |
| 170 | 20.552 | 34.855 | 24.506 | 0.757 |
| 180 | 16.738 | 34.643 | 25.303 | 0.789 |
| 190 | 14.315 | 34.626 | 25.832 | 0.813 |
| 200 | 13.323 | 34.650 | 26.057 | 0.834 |
| 250 | 11.074 | 34.733 | 26.554 | 0.919 |
| 300 | 10.197 | 34.705 | 26.688 | 0.983 |
| 301 | 10.177 | 34.704 | 26.691 | 0.994 |

CAST EP5-88-OC -022 DATE 23 NOV 88 TIME 1911 GMT
LAT 05 07.6N LONG 140 02.3W

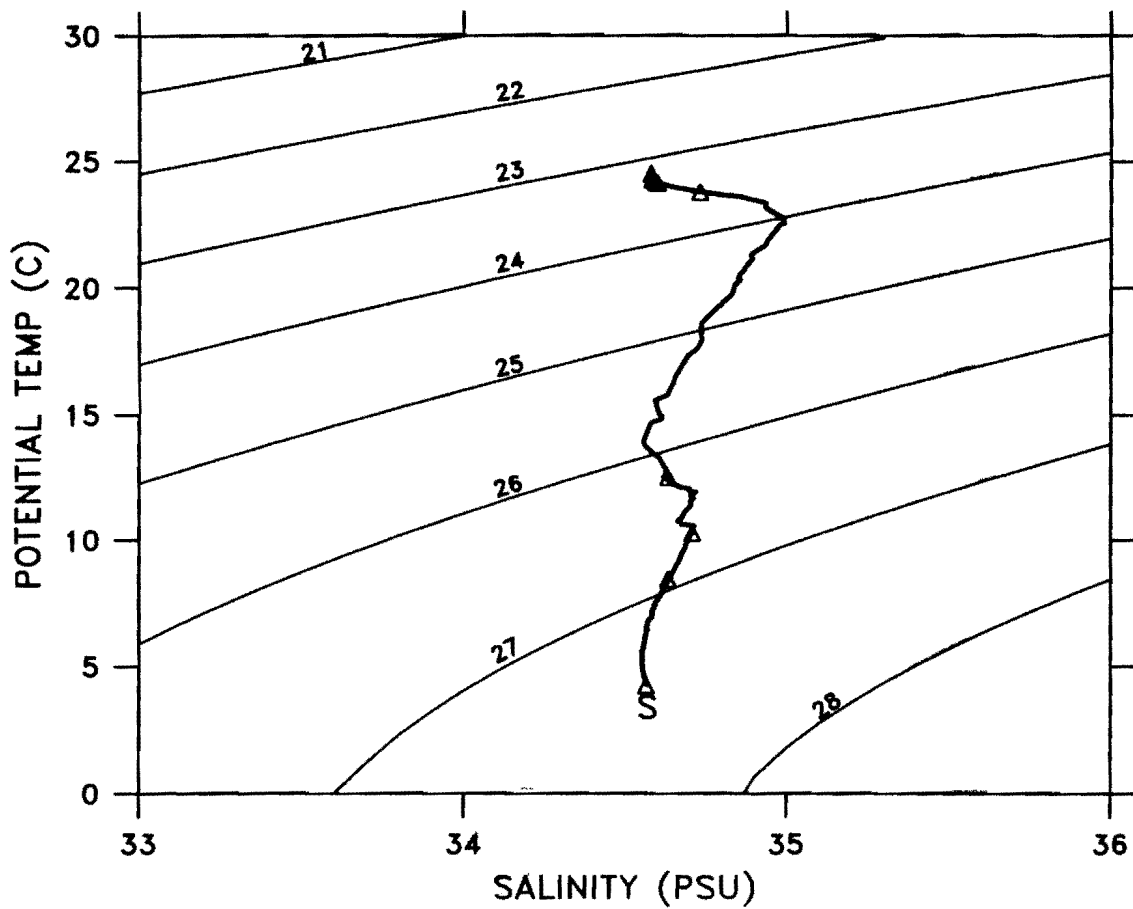


CAST EPS-88-OC -022 DATE 23 NOV 88 TIME 1911 GMT
 LAT 05 07.6N LONG 140 02.3W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DR 150 T SPD 15 KT VISIBILITY 8
 CLOUD 2 AMOUNT 2 DRY 24.9 WET 23.6 DEPTH 4377 M

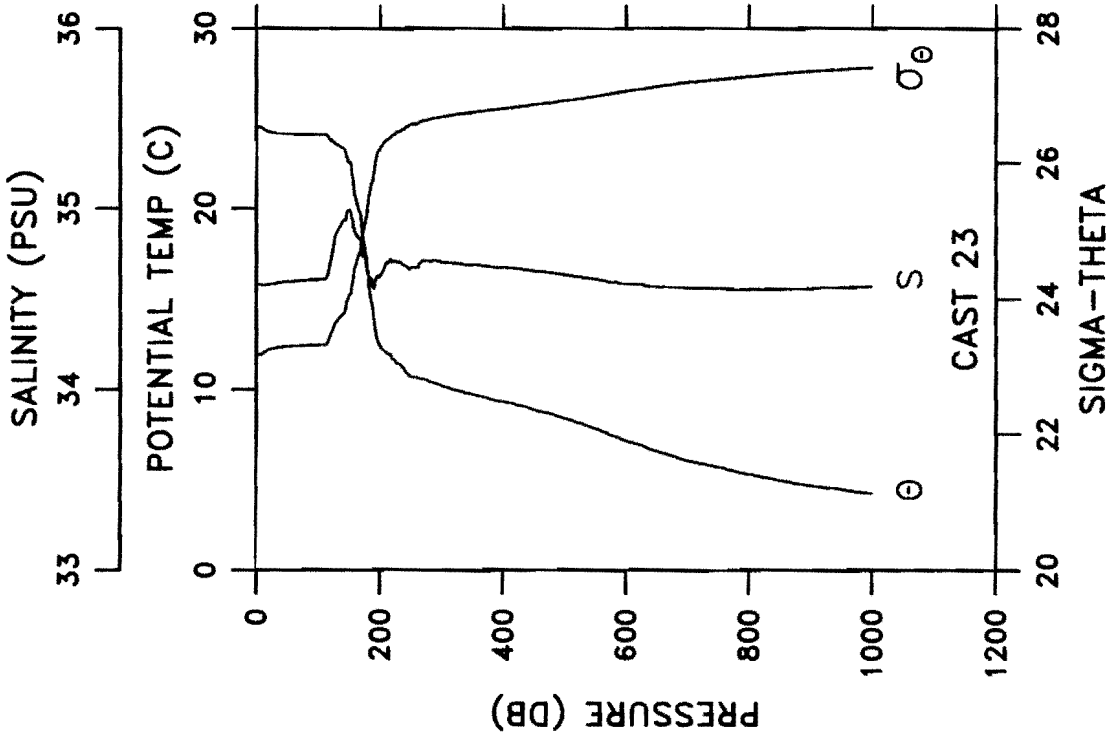


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.307 | 34.579 | 23.233 | 0.000 |
| 10 | 24.304 | 34.579 | 23.234 | 0.046 |
| 20 | 24.302 | 34.579 | 23.235 | 0.093 |
| 30 | 24.294 | 34.579 | 23.237 | 0.139 |
| 40 | 24.269 | 34.582 | 23.247 | 0.186 |
| 50 | 24.162 | 34.590 | 23.265 | 0.232 |
| 60 | 24.115 | 34.599 | 23.305 | 0.278 |
| 70 | 24.054 | 34.607 | 23.330 | 0.323 |
| 80 | 24.003 | 34.619 | 23.354 | 0.369 |
| 90 | 23.999 | 34.623 | 23.358 | 0.415 |
| 100 | 23.992 | 34.624 | 23.361 | 0.460 |
| 110 | 23.725 | 34.723 | 23.515 | 0.505 |
| 120 | 23.717 | 34.788 | 23.566 | 0.549 |
| 130 | 23.503 | 34.821 | 23.654 | 0.593 |
| 140 | 23.187 | 34.818 | 23.743 | 0.635 |
| 150 | 22.795 | 34.890 | 23.911 | 0.677 |
| 160 | 21.255 | 34.807 | 24.279 | 0.715 |
| 170 | 19.617 | 34.678 | 24.618 | 0.750 |
| 180 | 18.760 | 34.608 | 25.723 | 0.777 |
| 190 | 13.265 | 34.650 | 26.069 | 0.799 |
| 200 | 12.591 | 34.687 | 26.232 | 0.818 |
| 250 | 11.016 | 34.739 | 26.570 | 0.899 |
| 300 | 10.237 | 34.708 | 26.684 | 0.973 |
| 350 | 9.735 | 34.689 | 26.754 | 1.042 |
| 400 | 9.170 | 34.664 | 26.828 | 1.108 |
| 450 | 8.712 | 34.648 | 26.890 | 1.172 |
| 500 | 8.154 | 34.627 | 26.958 | 1.232 |
| 550 | 7.553 | 34.602 | 27.027 | 1.290 |
| 600 | 6.851 | 34.576 | 27.108 | 1.344 |
| 650 | 6.232 | 34.564 | 27.179 | 1.395 |
| 700 | 5.794 | 34.559 | 27.230 | 1.442 |
| 750 | 5.383 | 34.557 | 27.279 | 1.487 |
| 800 | 4.135 | 34.556 | 27.308 | 1.531 |
| 900 | 4.610 | 34.582 | 27.372 | 1.613 |
| 1000 | 4.125 | 34.574 | 27.434 | 1.690 |
| 1500 | 2.798 | 34.614 | 27.595 | 2.017 |
| 2000 | 2.026 | 34.648 | 27.688 | 2.288 |
| 2500 | 1.707 | 34.665 | 27.726 | 2.530 |
| 3000 | 1.503 | 34.675 | 27.749 | 2.765 |
| 3500 | 1.252 | 34.686 | 27.776 | 2.989 |
| 4000 | 1.091 | 34.694 | 27.793 | 3.206 |
| 4099 | 1.062 | 34.696 | 27.797 | 3.249 |

CAST EP5-88-OC -023 DATE 24 NOV 88 TIME 0036 GMT
LAT 05 29.7N LONG 139 58.7W

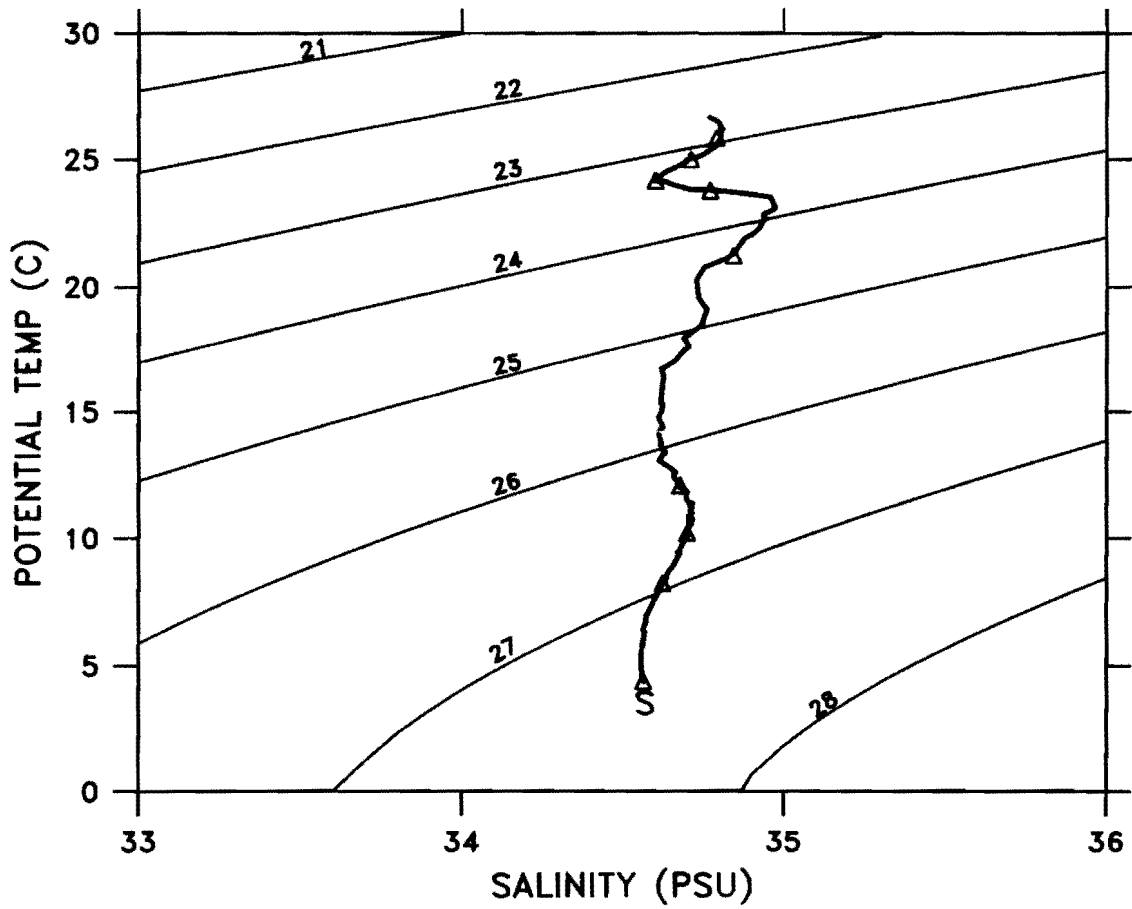


CAST EPS-88-0C -023 DATE 24 NOV 88 TIME 0036 GMT
 LAT 05 29.7N LONG 139 58.7W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 155 T SPD 14 KT VISIBILITY 8
 CLOUD 6 AMOUNT 3 DRY 28.0 WET 24.9 DEPTH 4850 M

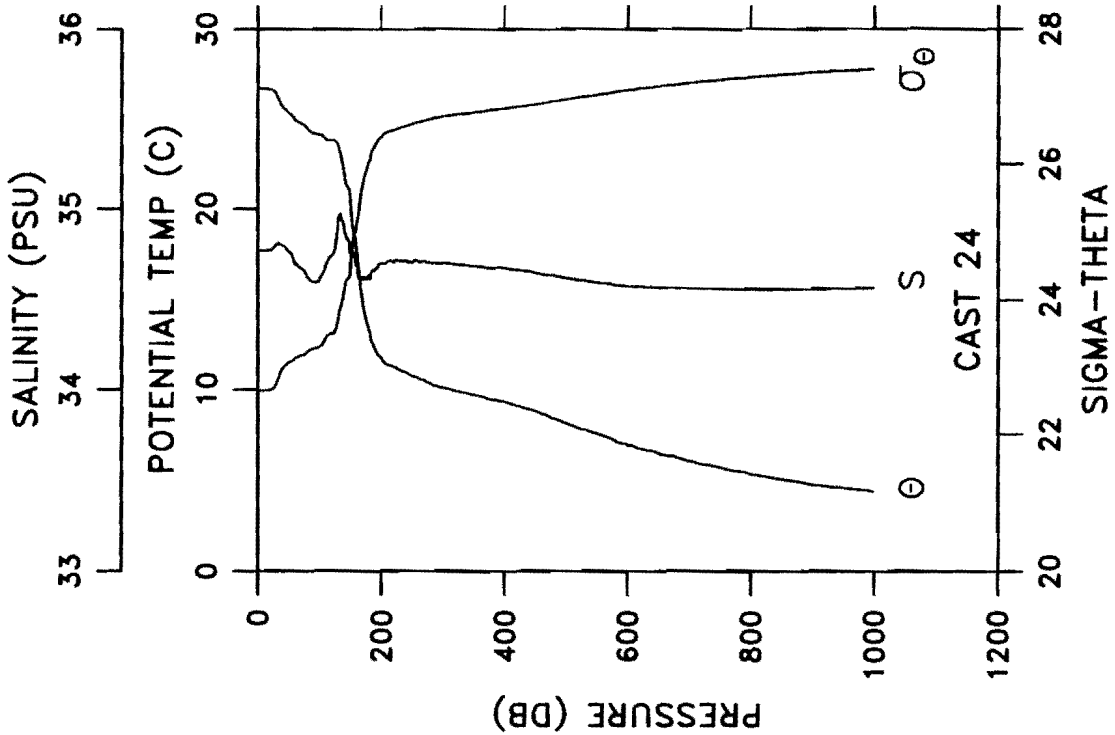


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.486 | 34.578 | 23.179 | 0.000 |
| 10 | 24.424 | 34.575 | 23.195 | 0.047 |
| 20 | 24.246 | 34.581 | 23.253 | 0.093 |
| 30 | 24.196 | 34.584 | 23.270 | 0.139 |
| 40 | 24.157 | 34.591 | 23.287 | 0.185 |
| 50 | 24.137 | 34.596 | 23.296 | 0.231 |
| 60 | 24.130 | 34.597 | 23.300 | 0.277 |
| 70 | 24.115 | 34.601 | 23.307 | 0.323 |
| 80 | 24.102 | 34.604 | 23.313 | 0.369 |
| 90 | 24.093 | 34.607 | 23.318 | 0.415 |
| 100 | 24.092 | 34.607 | 23.318 | 0.461 |
| 110 | 24.091 | 34.610 | 23.321 | 0.507 |
| 120 | 23.825 | 34.710 | 23.475 | 0.553 |
| 130 | 23.553 | 34.866 | 23.673 | 0.596 |
| 140 | 23.354 | 34.930 | 23.780 | 0.638 |
| 150 | 22.575 | 34.992 | 24.051 | 0.679 |
| 160 | 20.684 | 34.869 | 24.481 | 0.716 |
| 170 | 19.283 | 34.791 | 24.790 | 0.750 |
| 180 | 16.499 | 34.656 | 25.369 | 0.779 |
| 190 | 13.965 | 34.557 | 25.853 | 0.804 |
| 200 | 12.417 | 34.627 | 26.220 | 0.823 |
| 250 | 10.698 | 34.671 | 26.574 | 0.906 |
| 300 | 10.205 | 34.701 | 26.684 | 0.979 |
| 350 | 9.749 | 34.688 | 26.751 | 1.048 |
| 400 | 9.350 | 34.674 | 26.807 | 1.115 |
| 450 | 8.885 | 34.655 | 26.866 | 1.180 |
| 500 | 8.392 | 34.634 | 26.927 | 1.242 |
| 550 | 7.828 | 34.611 | 26.984 | 1.301 |
| 600 | 7.157 | 34.584 | 27.069 | 1.357 |
| 650 | 6.577 | 34.569 | 27.137 | 1.410 |
| 700 | 6.066 | 34.561 | 27.197 | 1.460 |
| 750 | 5.710 | 34.558 | 27.240 | 1.507 |
| 800 | 5.322 | 34.554 | 27.284 | 1.552 |
| 800 | 4.701 | 34.558 | 27.359 | 1.636 |
| 1000 | 4.258 | 34.568 | 27.416 | 1.715 |
| 1000 | 4.258 | 34.568 | 27.416 | 1.715 |

CAST EP5-88-OC -024 DATE 24 NOV 88 TIME 0419 GMT
LAT 05 58.9N LONG 139 59.4W

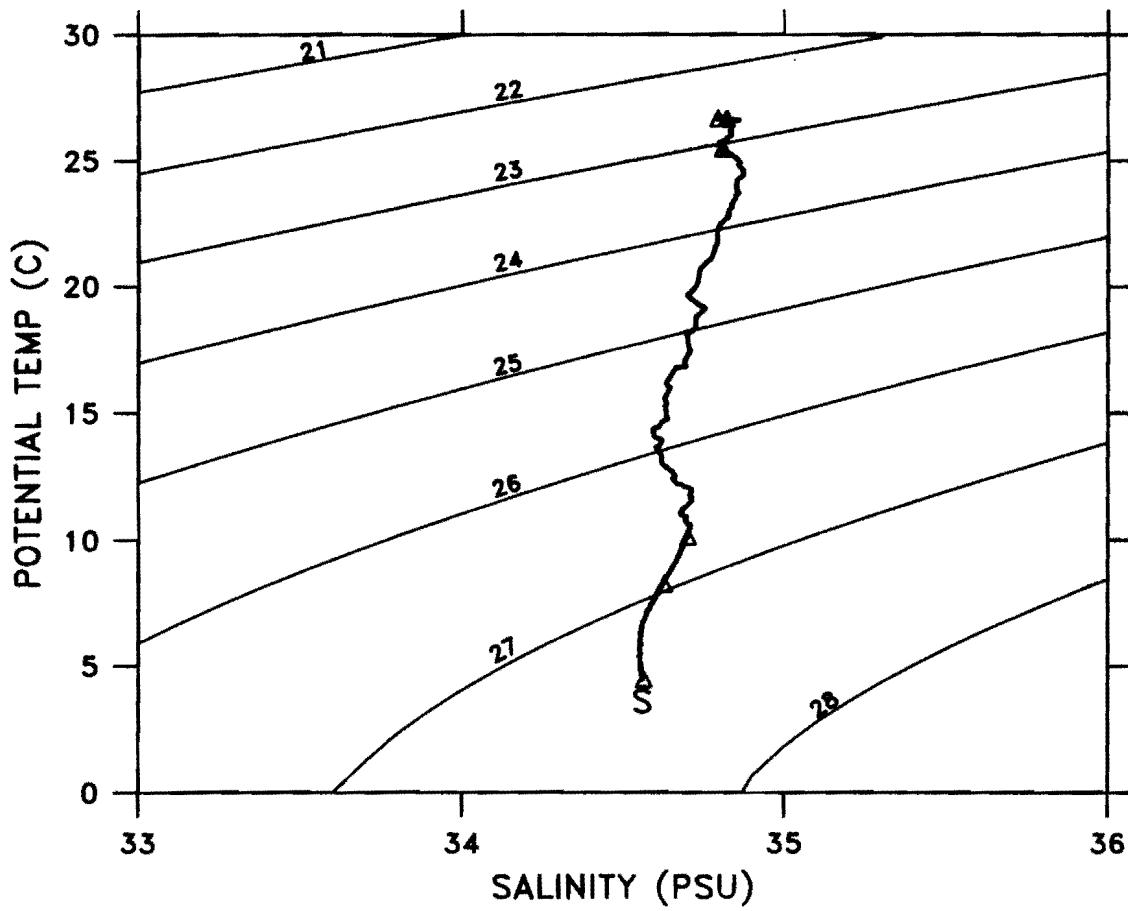


CAST EP5-88-OC -024 DATE 24 NOV 88 TIME 0419 GMT
 LAT 05 58.9N LONG 139 59.4W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 140 T SPD 14 KT VISIBILITY 8
 CLOUD 6 AMOUNT 4 DRY 26.1 WET 23.2 DEPTH 4844 M

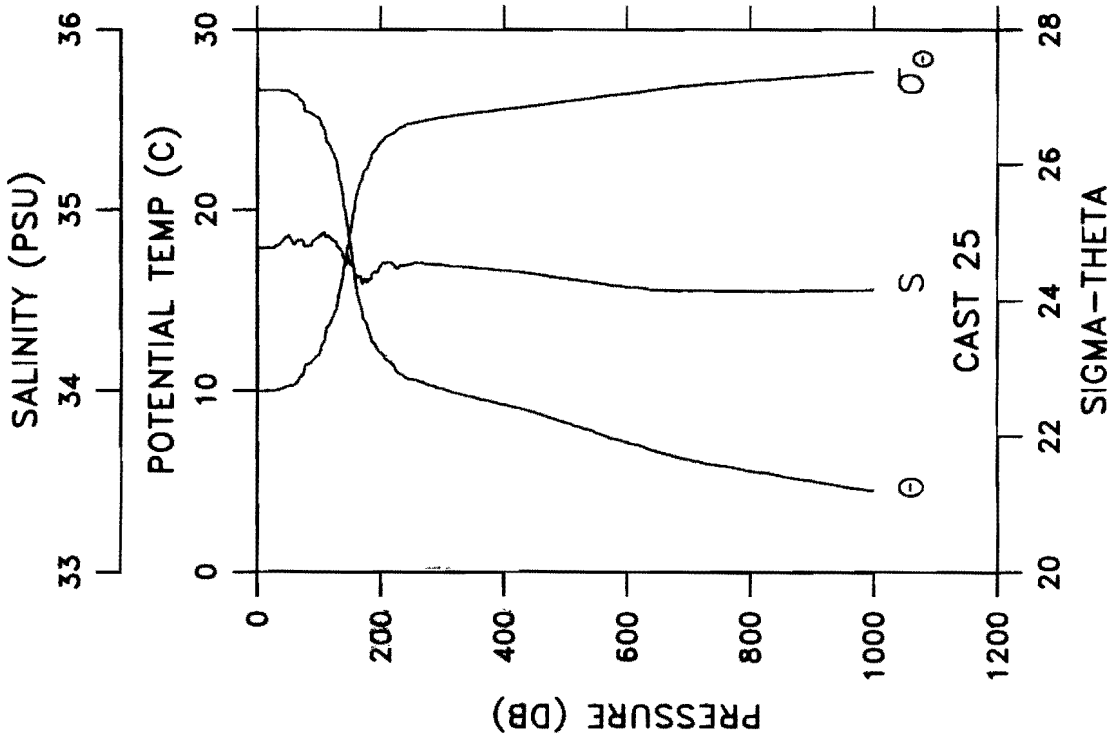


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.664 | 34.768 | 22.652 | 0.000 |
| 10 | 26.666 | 34.769 | 22.652 | 0.052 |
| 20 | 26.650 | 34.772 | 22.659 | 0.104 |
| 30 | 26.382 | 34.803 | 22.767 | 0.155 |
| 40 | 25.652 | 34.796 | 22.989 | 0.205 |
| 50 | 25.301 | 34.764 | 23.073 | 0.254 |
| 60 | 24.924 | 34.696 | 23.137 | 0.301 |
| 70 | 24.716 | 34.670 | 23.180 | 0.349 |
| 80 | 24.416 | 34.622 | 23.233 | 0.396 |
| 90 | 24.197 | 34.597 | 23.280 | 0.442 |
| 100 | 24.133 | 34.617 | 23.314 | 0.488 |
| 110 | 23.875 | 34.693 | 23.448 | 0.534 |
| 120 | 23.812 | 34.744 | 23.505 | 0.578 |
| 130 | 23.535 | 34.957 | 23.747 | 0.622 |
| 140 | 21.904 | 34.877 | 24.153 | 0.662 |
| 150 | 20.256 | 34.728 | 24.488 | 0.699 |
| 160 | 17.603 | 34.707 | 25.146 | 0.730 |
| 170 | 14.766 | 34.611 | 25.724 | 0.756 |
| 180 | 13.335 | 34.630 | 26.039 | 0.777 |
| 190 | 12.208 | 34.671 | 26.294 | 0.796 |
| 200 | 11.765 | 34.699 | 26.400 | 0.813 |
| 250 | 10.756 | 34.706 | 26.591 | 0.891 |
| 300 | 10.108 | 34.703 | 26.702 | 0.964 |
| 350 | 9.701 | 34.685 | 26.757 | 1.033 |
| 400 | 9.323 | 34.674 | 26.811 | 1.099 |
| 450 | 8.800 | 34.651 | 26.877 | 1.163 |
| 500 | 8.149 | 34.621 | 26.954 | 1.225 |
| 550 | 7.561 | 34.598 | 27.023 | 1.282 |
| 600 | 6.920 | 34.573 | 27.094 | 1.337 |
| 650 | 6.472 | 34.566 | 27.148 | 1.388 |
| 700 | 6.057 | 34.566 | 27.203 | 1.438 |
| 750 | 5.708 | 34.561 | 27.242 | 1.485 |
| 800 | 5.325 | 34.558 | 27.287 | 1.530 |
| 900 | 4.770 | 34.561 | 27.353 | 1.615 |
| 1000 | 4.368 | 34.567 | 27.402 | 1.694 |
| 1001 | 4.368 | 34.566 | 27.402 | 1.695 |

CAST EP5-88-OC -025 DATE 24 NOV 88 TIME 0752 GMT
LAT 06 30.3N LONG 139 59.9W

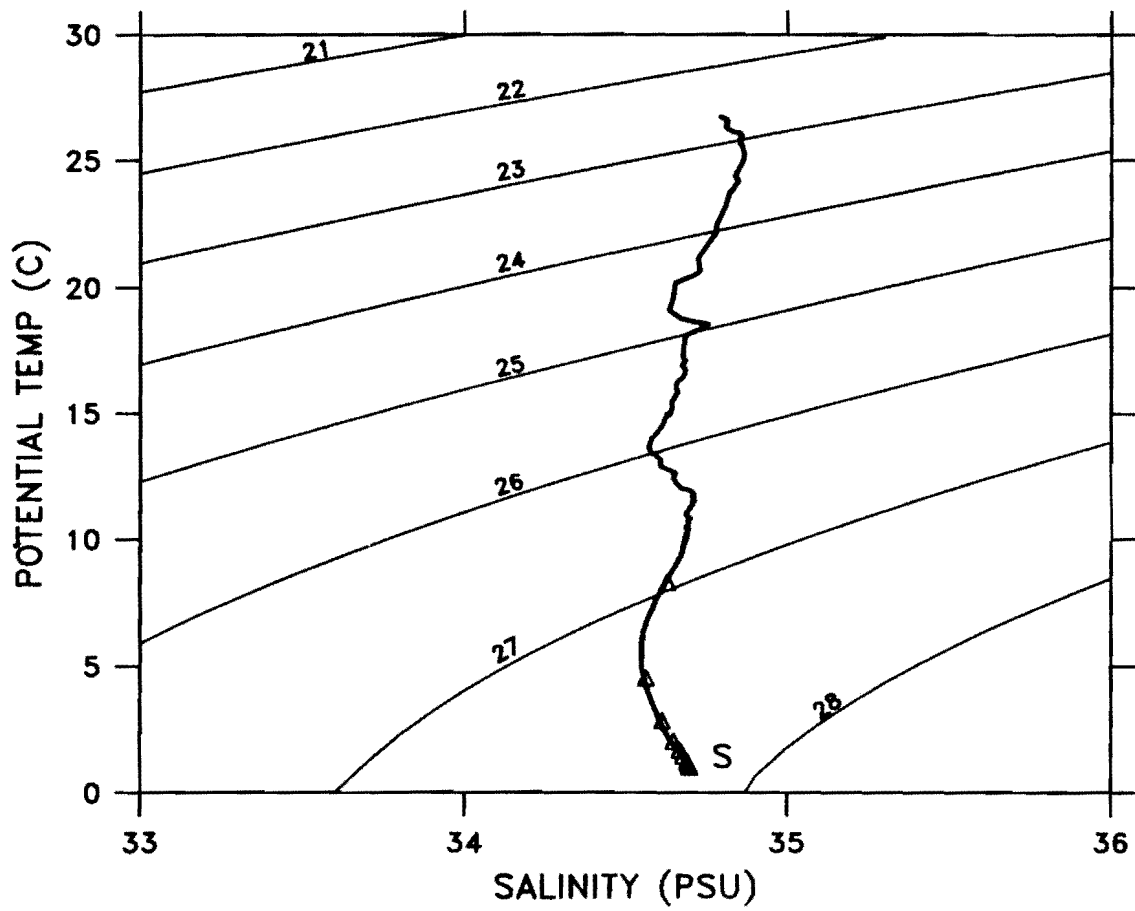


CAST EPS-88-0C --025 DATE 24 NOV 88 TIME 0752 GMT
 LAT 06 30.3N LONG 139 58.9W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 140 T SPD 14 KT VISIBILITY 8
 CLOUD 6 AMOUNT 4 DRY 26.0 WET 22.9 DEPTH 4822 M

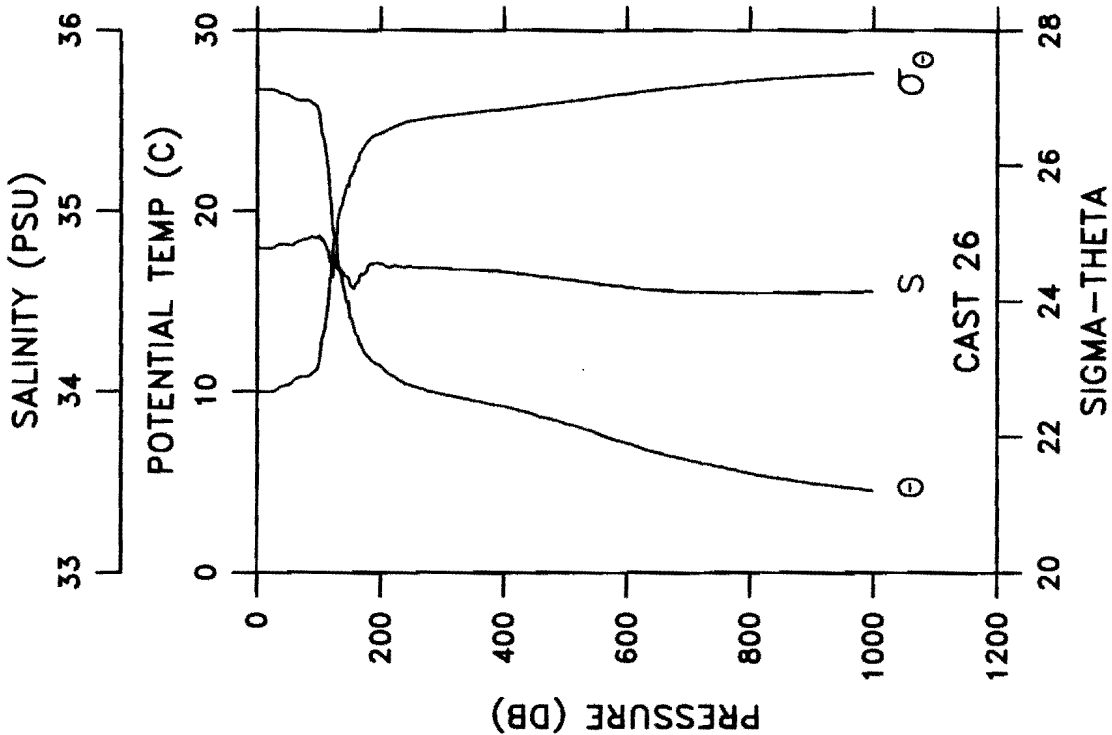


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.684 | 34.791 | 22.663 | 0.000 |
| 10 | 26.678 | 34.790 | 22.664 | 0.052 |
| 20 | 26.674 | 34.792 | 22.667 | 0.104 |
| 30 | 26.676 | 34.802 | 22.674 | 0.155 |
| 40 | 26.651 | 34.828 | 22.701 | 0.207 |
| 50 | 26.610 | 34.860 | 22.738 | 0.259 |
| 60 | 26.432 | 34.812 | 22.758 | 0.310 |
| 70 | 26.137 | 34.833 | 22.866 | 0.361 |
| 80 | 25.461 | 34.802 | 23.052 | 0.410 |
| 90 | 25.296 | 34.829 | 23.123 | 0.458 |
| 100 | 25.086 | 34.851 | 23.204 | 0.505 |
| 110 | 24.221 | 34.853 | 23.466 | 0.551 |
| 120 | 23.330 | 34.839 | 23.717 | 0.594 |
| 130 | 22.326 | 34.796 | 23.973 | 0.636 |
| 140 | 20.256 | 34.733 | 24.492 | 0.673 |
| 150 | 18.223 | 34.714 | 24.999 | 0.706 |
| 160 | 15.841 | 34.641 | 25.508 | 0.733 |
| 170 | 14.395 | 34.592 | 25.789 | 0.757 |
| 180 | 13.419 | 34.616 | 26.011 | 0.778 |
| 190 | 12.612 | 34.659 | 26.206 | 0.797 |
| 200 | 12.105 | 34.695 | 26.333 | 0.815 |
| 250 | 10.634 | 34.703 | 26.610 | 0.894 |
| 300 | 10.111 | 34.701 | 26.700 | 0.966 |
| 350 | 9.636 | 34.682 | 26.765 | 1.035 |
| 400 | 9.235 | 34.667 | 26.820 | 1.101 |
| 450 | 8.793 | 34.649 | 26.877 | 1.165 |
| 500 | 8.248 | 34.625 | 26.943 | 1.227 |
| 550 | 7.681 | 34.599 | 27.006 | 1.285 |
| 600 | 7.178 | 34.575 | 27.059 | 1.341 |
| 650 | 6.633 | 34.560 | 27.122 | 1.394 |
| 700 | 6.217 | 34.555 | 27.173 | 1.445 |
| 750 | 5.867 | 34.554 | 27.215 | 1.493 |
| 800 | 5.572 | 34.553 | 27.253 | 1.540 |
| 900 | 5.038 | 34.556 | 27.319 | 1.629 |
| 1000 | 4.489 | 34.560 | 27.384 | 1.711 |
| 1009 | 4.452 | 34.561 | 27.389 | 1.718 |

CAST EP5-88-OC -026 DATE 24 NOV 88 TIME 1152 GMT
LAT 06 56.7N LONG 139 58.7W

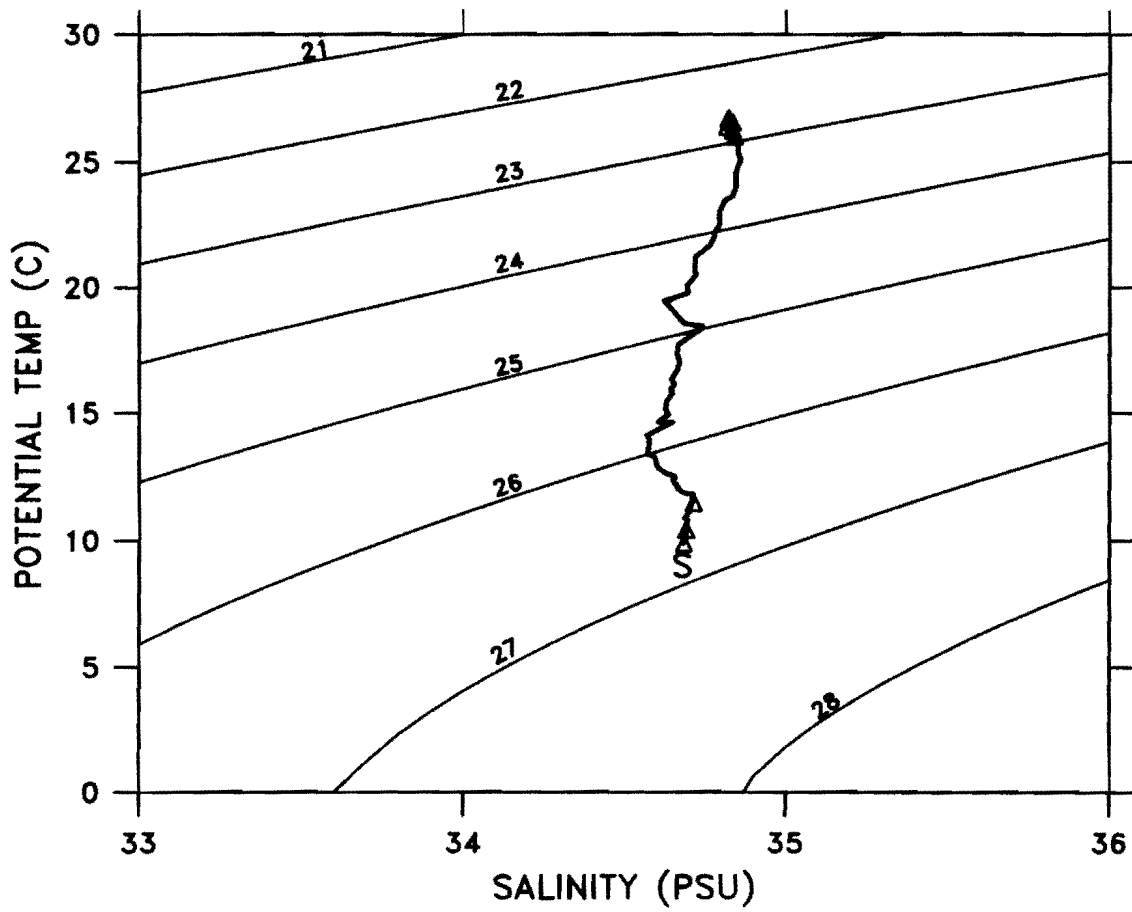


CAST EP5-88-0C -026 DATE 24 NOV 88 TIME 1152 GMT
 LAT 06 56.7N LONG 139 58.7W WEATHER 5 SEA STATE 3
 BAROMETER 11 WIND DIR 140 T SPD 12 KT VISIBILITY 8
 CLOUD 9 AMOUNT 8 DRY 24.1 WET 23.0 DEPTH 4985 M

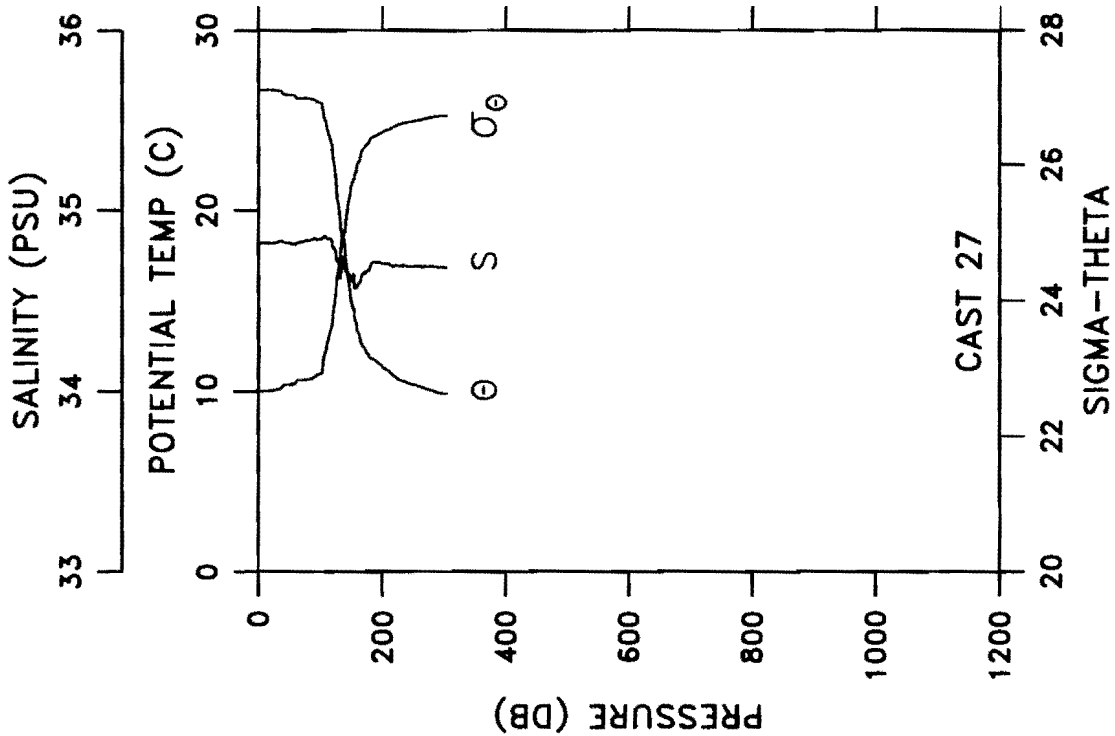


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.700 | 34.794 | 22.660 | 0.000 |
| 10 | 26.697 | 34.793 | 22.660 | 0.052 |
| 20 | 26.698 | 34.793 | 22.660 | 0.104 |
| 30 | 26.650 | 34.804 | 22.683 | 0.156 |
| 40 | 26.499 | 34.815 | 22.740 | 0.207 |
| 50 | 26.413 | 34.809 | 22.762 | 0.258 |
| 60 | 26.188 | 34.819 | 22.840 | 0.309 |
| 70 | 26.103 | 34.836 | 22.880 | 0.359 |
| 80 | 26.100 | 34.845 | 22.887 | 0.409 |
| 90 | 25.938 | 34.857 | 22.947 | 0.459 |
| 100 | 25.491 | 34.859 | 23.087 | 0.508 |
| 110 | 23.480 | 34.814 | 23.655 | 0.553 |
| 120 | 20.172 | 34.653 | 24.453 | 0.592 |
| 130 | 17.286 | 34.675 | 25.198 | 0.623 |
| 140 | 15.683 | 34.652 | 25.552 | 0.650 |
| 150 | 14.195 | 34.595 | 25.834 | 0.673 |
| 160 | 13.192 | 34.600 | 26.045 | 0.694 |
| 170 | 12.458 | 34.648 | 26.228 | 0.713 |
| 180 | 11.921 | 34.698 | 26.370 | 0.731 |
| 190 | 11.568 | 34.708 | 26.444 | 0.747 |
| 200 | 11.410 | 34.706 | 26.472 | 0.764 |
| 250 | 10.325 | 34.693 | 26.656 | 0.839 |
| 300 | 9.863 | 34.682 | 26.727 | 0.909 |
| 350 | 9.491 | 34.675 | 26.784 | 0.976 |
| 400 | 9.182 | 34.663 | 26.826 | 1.042 |
| 450 | 8.732 | 34.643 | 26.881 | 1.106 |
| 500 | 8.225 | 34.622 | 26.943 | 1.167 |
| 550 | 7.704 | 34.597 | 27.002 | 1.226 |
| 600 | 7.165 | 34.578 | 27.064 | 1.282 |
| 650 | 6.634 | 34.563 | 27.124 | 1.335 |
| 700 | 6.246 | 34.553 | 27.168 | 1.385 |
| 750 | 5.859 | 34.549 | 27.214 | 1.434 |
| 800 | 5.484 | 34.548 | 27.260 | 1.480 |
| 900 | 4.938 | 34.550 | 27.326 | 1.568 |
| 1000 | 4.538 | 34.556 | 27.376 | 1.651 |
| 1500 | 2.893 | 34.604 | 27.579 | 1.997 |
| 2000 | 2.029 | 34.641 | 27.682 | 2.274 |
| 2500 | 1.681 | 34.663 | 27.727 | 2.516 |
| 3000 | 1.464 | 34.674 | 27.751 | 2.749 |
| 3500 | 1.235 | 34.684 | 27.776 | 2.972 |
| 4000 | 1.081 | 34.692 | 27.793 | 3.188 |
| 4500 | 1.021 | 34.695 | 27.799 | 3.405 |
| 4697 | 1.011 | 34.695 | 27.800 | 3.493 |

CAST EP5-88-OC -027 DATE 24 NOV 88 TIME 2301 GMT
LAT 07 01.7N LONG 140 00.5W

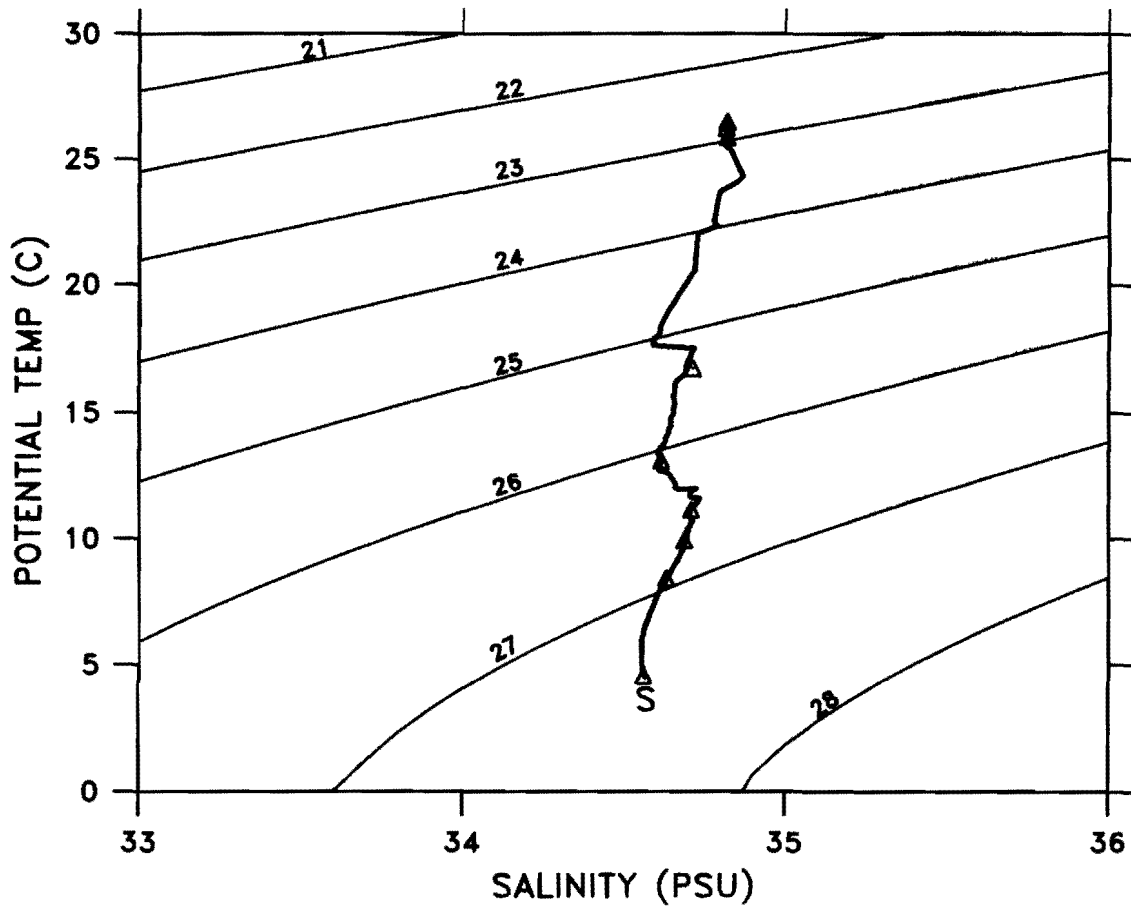


CAST EP5-88-OC -027 DATE 24 NOV 88 TIME 2301 GMT
 LAT 07 01.7N LONG 140 00.5W WEATHER 2 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 20 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 26.8 WET 24.1 DEPTH 4998 M

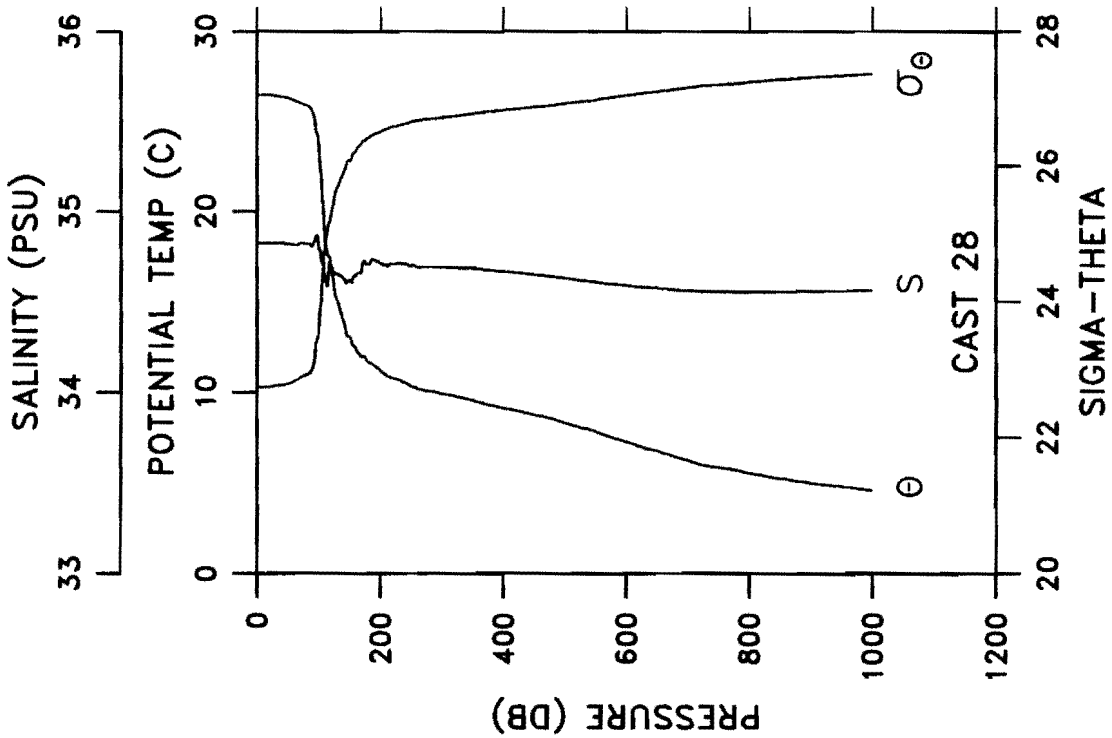


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.716 | 34.819 | 22.674 | 0.000 |
| 10 | 26.717 | 34.819 | 22.673 | 0.052 |
| 20 | 26.716 | 34.819 | 22.674 | 0.103 |
| 30 | 26.665 | 34.821 | 22.691 | 0.155 |
| 40 | 26.472 | 34.824 | 22.755 | 0.207 |
| 50 | 26.415 | 34.816 | 22.767 | 0.258 |
| 60 | 26.302 | 34.810 | 22.797 | 0.309 |
| 70 | 26.228 | 34.826 | 22.832 | 0.359 |
| 80 | 26.217 | 34.833 | 22.841 | 0.410 |
| 90 | 26.134 | 34.846 | 22.878 | 0.460 |
| 100 | 25.972 | 34.839 | 22.923 | 0.510 |
| 110 | 24.649 | 34.847 | 23.334 | 0.558 |
| 120 | 22.971 | 34.793 | 23.786 | 0.602 |
| 130 | 20.089 | 34.694 | 24.506 | 0.640 |
| 140 | 17.716 | 34.667 | 25.088 | 0.671 |
| 150 | 14.920 | 34.636 | 25.710 | 0.697 |
| 160 | 13.295 | 34.587 | 26.014 | 0.719 |
| 170 | 12.443 | 34.657 | 26.238 | 0.738 |
| 180 | 11.846 | 34.684 | 26.373 | 0.756 |
| 190 | 11.671 | 34.711 | 26.427 | 0.773 |
| 200 | 11.372 | 34.705 | 26.478 | 0.789 |
| 250 | 10.358 | 34.689 | 26.648 | 0.864 |
| 300 | 9.888 | 34.683 | 26.724 | 0.934 |
| 304 | 9.875 | 34.683 | 26.726 | 0.940 |

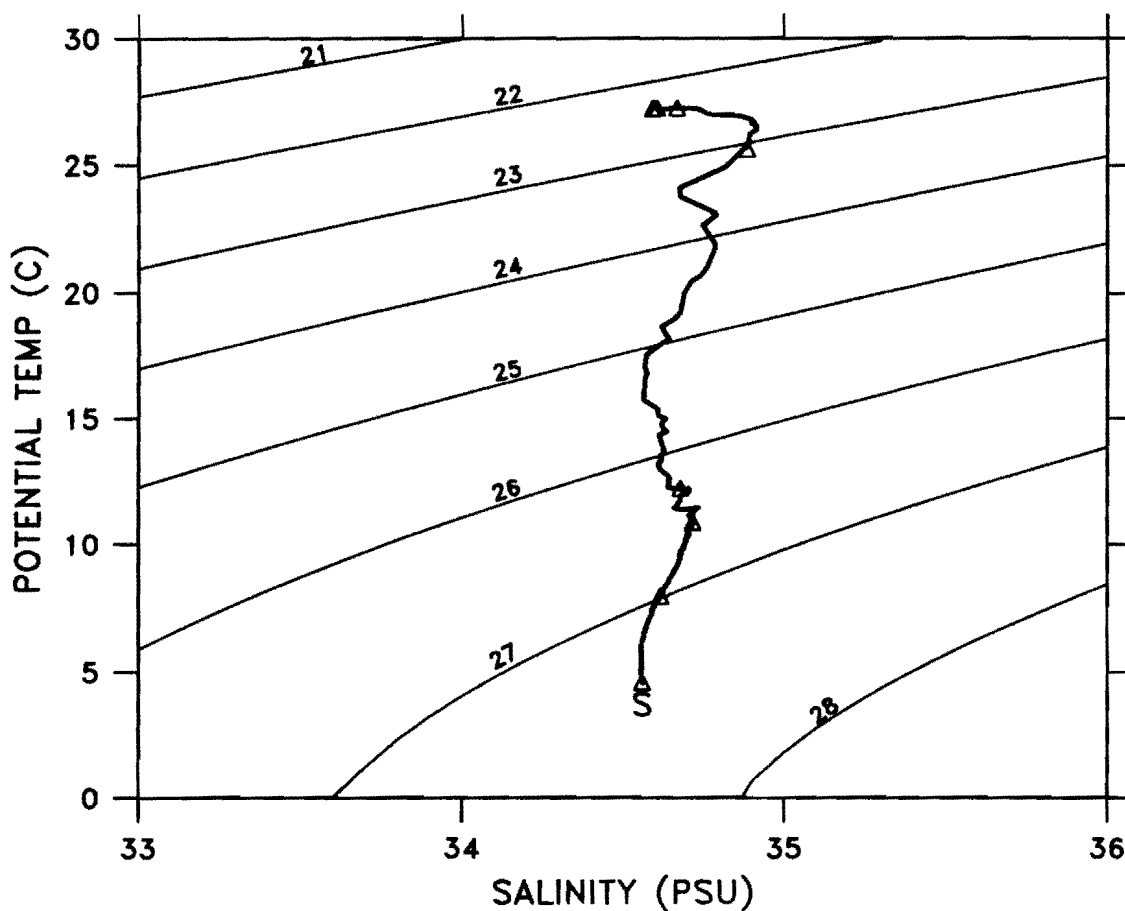
CAST EP5-88-OC -028 DATE 25 NOV 88 TIME 0156 GMT
LAT 07 29.7N LONG 139 59.1W



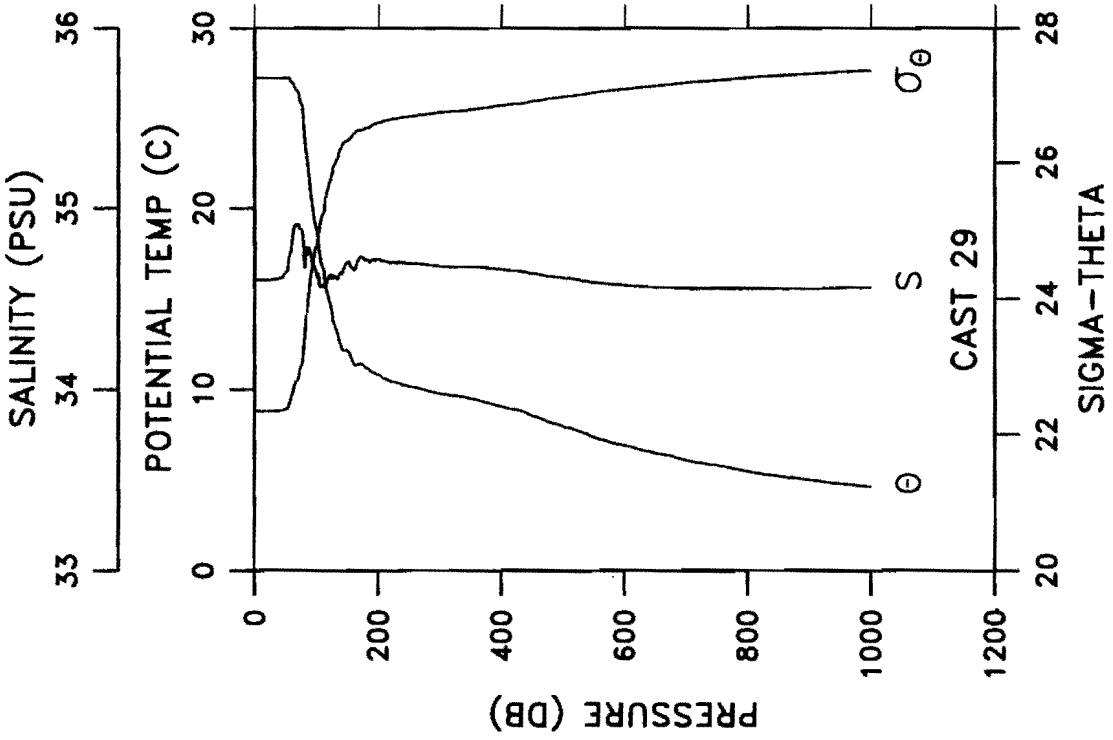
CAST EP5-88-0C -028 DATE 25 NOV 88 TIME 0156 GMT
 LAT 07 29.7N LONG 139 59.1W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 16 KT VISIBILITY 8
 CLOUD 4 AMOUNT 2 DRY 29.1 WET 25.2 DEPTH 4924 M



CAST EP5-88-OC -029 DATE 25 NOV 88 TIME 0529 GMT
LAT 07 59.6N LONG 139 59.8W

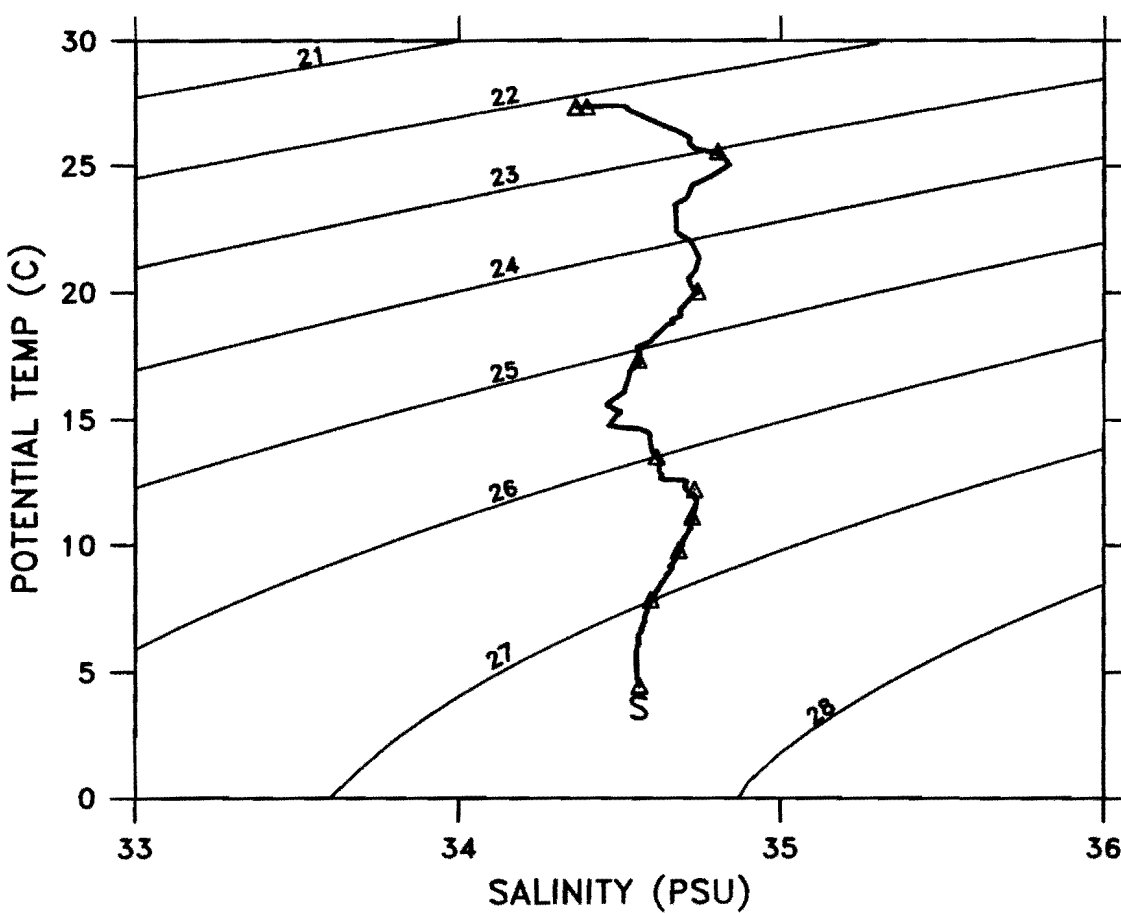


CAST EPS-88-OC -029 DATE 25 NOV 88 TIME 0529 GMT
 LAT 07 59.6N LONG 139 59.8W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 145 T SPD 18 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 27.2 WET 24.1 DEPTH 5121 M

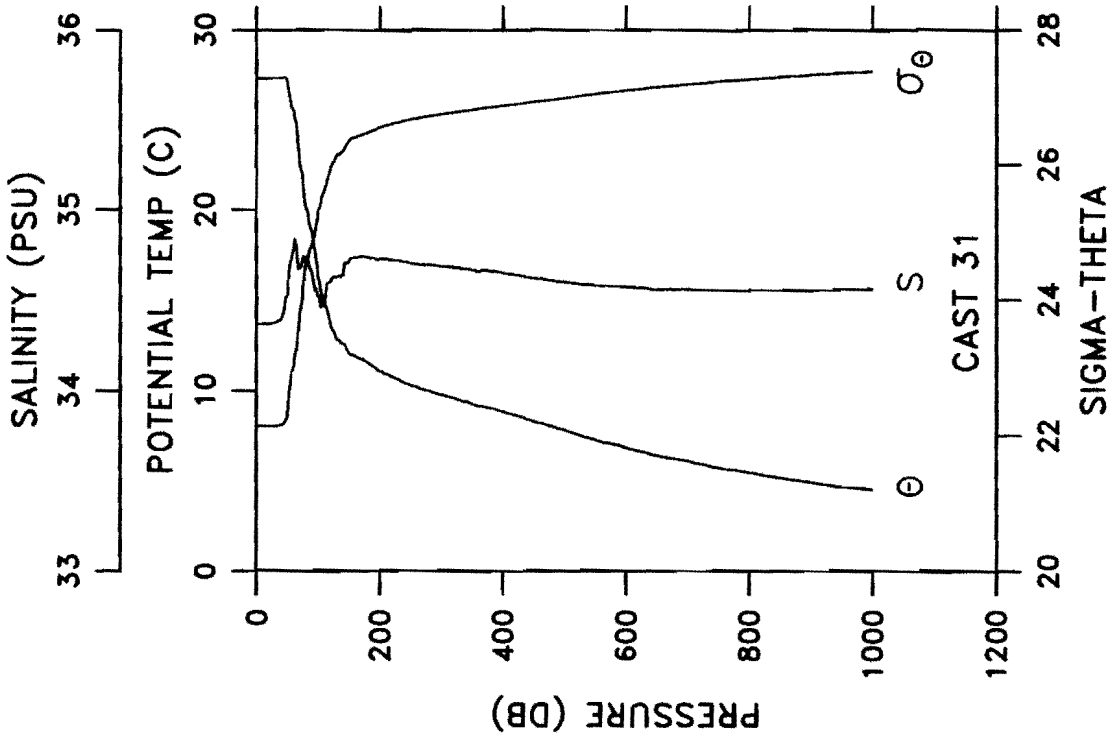


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.236 | 34.607 | 22.348 | 0.000 |
| 10 | 27.241 | 34.607 | 22.347 | 0.055 |
| 20 | 27.238 | 34.606 | 22.347 | 0.110 |
| 30 | 27.241 | 34.609 | 22.348 | 0.165 |
| 40 | 27.243 | 34.614 | 22.351 | 0.220 |
| 50 | 27.253 | 34.646 | 22.373 | 0.274 |
| 60 | 26.993 | 34.811 | 22.580 | 0.329 |
| 70 | 26.462 | 34.913 | 22.825 | 0.380 |
| 80 | 24.114 | 34.675 | 23.363 | 0.429 |
| 90 | 21.039 | 34.761 | 24.303 | 0.469 |
| 100 | 18.819 | 34.639 | 24.793 | 0.503 |
| 110 | 16.782 | 34.576 | 25.241 | 0.533 |
| 120 | 14.985 | 34.634 | 25.694 | 0.558 |
| 130 | 13.527 | 34.617 | 25.990 | 0.580 |
| 140 | 12.431 | 34.644 | 26.230 | 0.599 |
| 150 | 12.194 | 34.706 | 26.324 | 0.617 |
| 160 | 11.486 | 34.665 | 26.426 | 0.633 |
| 170 | 11.447 | 34.733 | 26.486 | 0.649 |
| 180 | 11.215 | 34.717 | 26.517 | 0.665 |
| 190 | 10.980 | 34.716 | 26.558 | 0.681 |
| 200 | 10.831 | 34.719 | 26.588 | 0.696 |
| 250 | 10.179 | 34.696 | 26.684 | 0.768 |
| 300 | 9.763 | 34.682 | 26.745 | 0.837 |
| 350 | 9.495 | 34.678 | 26.786 | 0.904 |
| 400 | 9.076 | 34.664 | 26.844 | 0.969 |
| 450 | 8.538 | 34.641 | 26.910 | 1.032 |
| 500 | 7.974 | 34.617 | 26.977 | 1.092 |
| 550 | 7.377 | 34.592 | 27.045 | 1.148 |
| 600 | 6.930 | 34.576 | 27.095 | 1.202 |
| 650 | 6.487 | 34.565 | 27.146 | 1.254 |
| 700 | 6.099 | 34.558 | 27.191 | 1.304 |
| 750 | 5.804 | 34.559 | 27.229 | 1.351 |
| 800 | 5.456 | 34.558 | 27.271 | 1.397 |
| 900 | 4.994 | 34.557 | 27.325 | 1.484 |
| 1000 | 4.601 | 34.563 | 27.374 | 1.567 |
| 1007 | 4.561 | 34.563 | 27.378 | 1.572 |

CAST EP5-88-OC -031 DATE 25 NOV 88 TIME 1047 GMT
LAT 08 31.3N LONG 139 56.2W

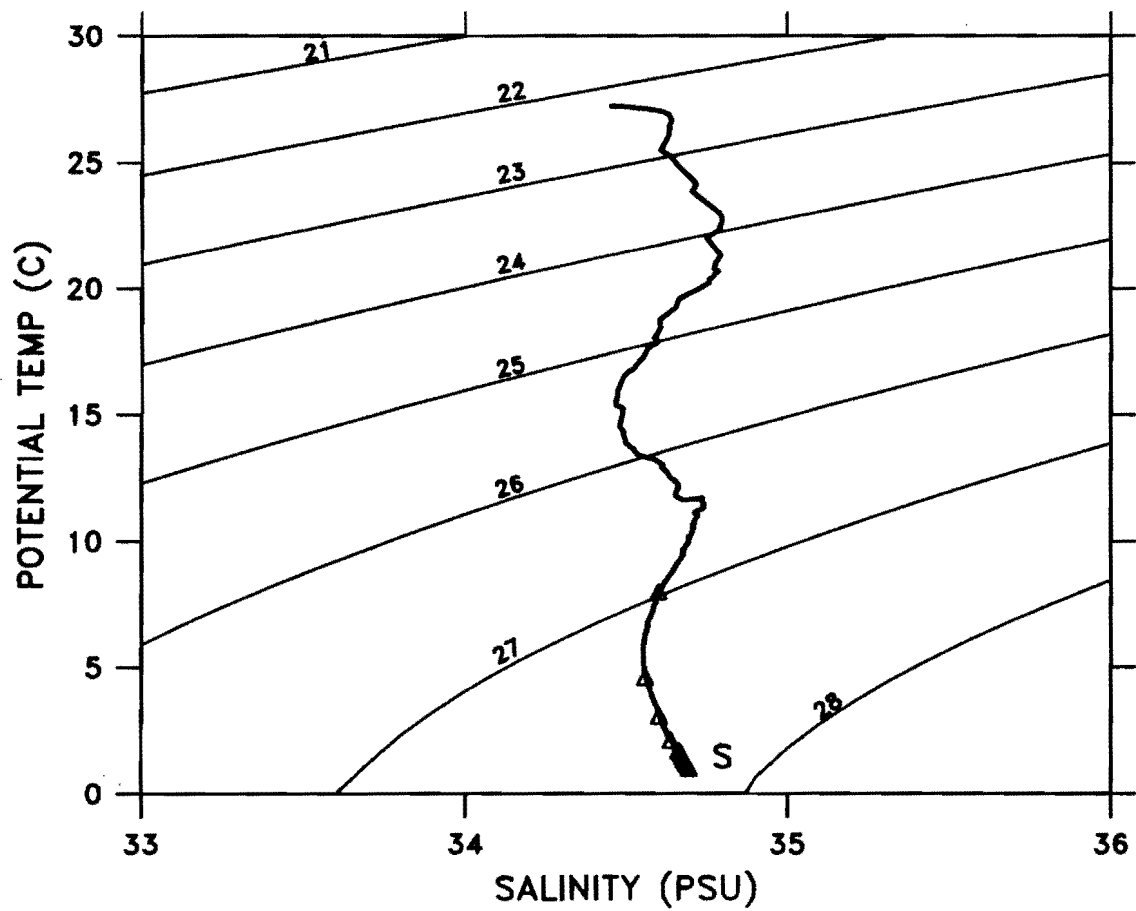


CAST EPS-88-OC -031 DATE 25 NOV 88 TIME 1047 GMT
 LAT 08 31.3N LONG 139 56.2W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 135 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.8 WET 24.0 DEPTH 4844 M

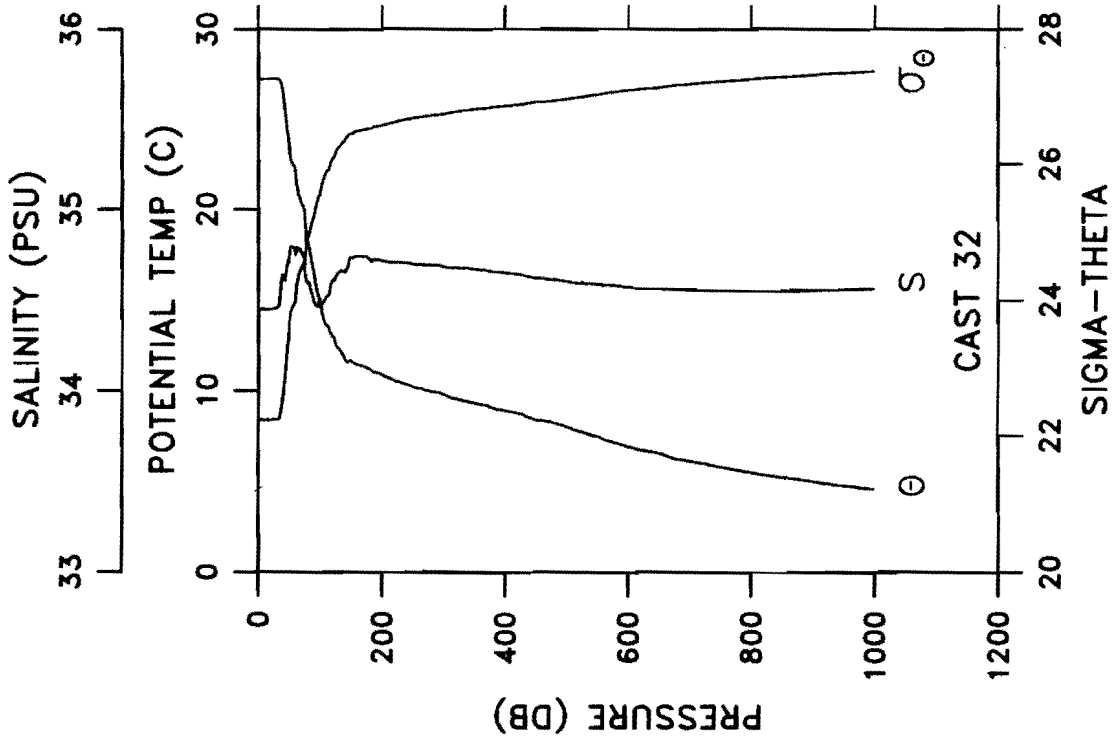


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.316 | 34.368 | 22.143 | 0.000 |
| 10 | 27.314 | 34.367 | 22.143 | 0.057 |
| 20 | 27.322 | 34.370 | 22.142 | 0.114 |
| 30 | 27.330 | 34.376 | 22.144 | 0.170 |
| 40 | 27.339 | 34.392 | 22.154 | 0.227 |
| 50 | 27.210 | 34.525 | 22.295 | 0.284 |
| 60 | 25.525 | 34.784 | 23.020 | 0.335 |
| 70 | 22.567 | 34.677 | 23.814 | 0.380 |
| 80 | 20.132 | 34.731 | 24.523 | 0.418 |
| 90 | 18.750 | 34.647 | 24.816 | 0.451 |
| 100 | 16.182 | 34.515 | 25.333 | 0.480 |
| 110 | 14.760 | 34.466 | 25.613 | 0.506 |
| 120 | 13.639 | 34.604 | 25.957 | 0.528 |
| 130 | 12.826 | 34.629 | 26.141 | 0.548 |
| 140 | 12.584 | 34.635 | 26.193 | 0.566 |
| 150 | 12.077 | 34.714 | 26.353 | 0.584 |
| 160 | 11.917 | 34.735 | 26.400 | 0.601 |
| 170 | 11.765 | 34.738 | 26.431 | 0.617 |
| 180 | 11.574 | 34.735 | 26.464 | 0.633 |
| 190 | 11.345 | 34.731 | 26.504 | 0.649 |
| 200 | 11.074 | 34.726 | 26.549 | 0.665 |
| 250 | 10.310 | 34.703 | 26.667 | 0.738 |
| 300 | 9.775 | 34.685 | 26.745 | 0.808 |
| 350 | 9.285 | 34.665 | 26.810 | 0.874 |
| 400 | 8.845 | 34.649 | 26.868 | 0.938 |
| 450 | 8.285 | 34.620 | 26.933 | 1.000 |
| 500 | 7.823 | 34.599 | 26.986 | 1.058 |
| 550 | 7.272 | 34.581 | 27.051 | 1.114 |
| 600 | 6.846 | 34.574 | 27.104 | 1.168 |
| 650 | 6.387 | 34.559 | 27.154 | 1.219 |
| 700 | 6.099 | 34.561 | 27.193 | 1.268 |
| 750 | 5.719 | 34.552 | 27.234 | 1.316 |
| 800 | 5.452 | 34.554 | 27.268 | 1.361 |
| 800 | 4.904 | 34.565 | 27.333 | 1.448 |
| 1000 | 4.486 | 34.562 | 27.386 | 1.530 |
| 1007 | 4.457 | 34.562 | 27.389 | 1.535 |

CAST EP5-88-OC -032 DATE 25 NOV 88 TIME 1503 GMT
LAT 08 57.2N LONG 140 07.6W

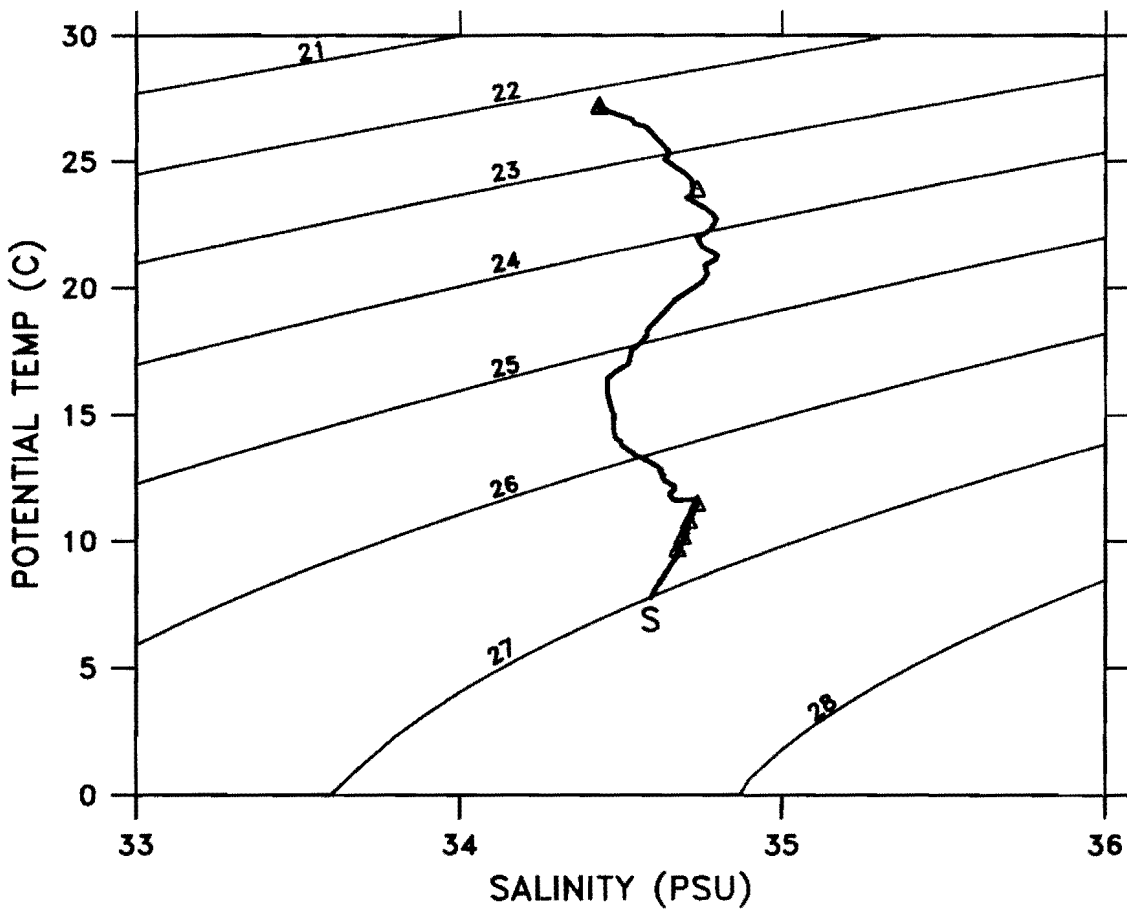


CAST EP5-88-OC -032 DATE 25 NOV 88 TIME 1503 GMT
 LAT 08 57.2N LONG 140 07.6W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 140 T SPD 08 KT VISIBILITY 8
 CLOUD 6 AMOUNT 5 DRY 26.4 WET 23.5 DEPTH 5152 M

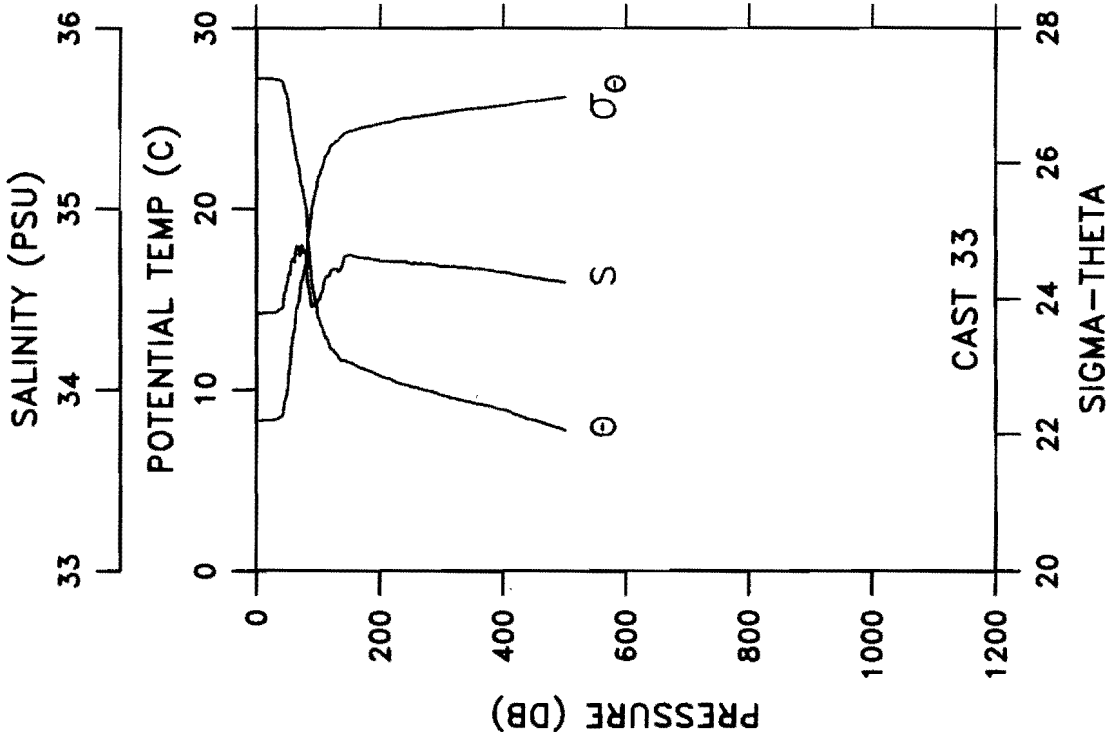


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.215 | 34.453 | 22.239 | 0.000 |
| 10 | 27.220 | 34.452 | 22.237 | 0.056 |
| 20 | 27.218 | 34.453 | 22.238 | 0.112 |
| 30 | 27.218 | 34.462 | 22.245 | 0.168 |
| 40 | 26.531 | 34.636 | 22.595 | 0.223 |
| 50 | 23.445 | 34.745 | 23.613 | 0.270 |
| 60 | 22.038 | 34.747 | 24.016 | 0.311 |
| 70 | 20.370 | 34.756 | 24.479 | 0.347 |
| 80 | 18.101 | 34.591 | 24.935 | 0.380 |
| 90 | 16.508 | 34.492 | 25.241 | 0.409 |
| 100 | 14.960 | 34.487 | 25.586 | 0.434 |
| 110 | 13.652 | 34.519 | 25.889 | 0.457 |
| 120 | 13.011 | 34.612 | 26.091 | 0.477 |
| 130 | 12.368 | 34.653 | 26.249 | 0.496 |
| 140 | 11.773 | 34.653 | 26.363 | 0.513 |
| 150 | 11.678 | 34.738 | 26.447 | 0.530 |
| 160 | 11.456 | 34.740 | 26.490 | 0.546 |
| 170 | 11.349 | 34.738 | 26.508 | 0.561 |
| 180 | 11.204 | 34.726 | 26.526 | 0.577 |
| 190 | 11.022 | 34.721 | 26.555 | 0.592 |
| 200 | 10.880 | 34.716 | 26.577 | 0.607 |
| 250 | 10.225 | 34.698 | 26.678 | 0.680 |
| 300 | 9.808 | 34.684 | 26.738 | 0.749 |
| 350 | 9.343 | 34.670 | 26.805 | 0.816 |
| 400 | 8.928 | 34.651 | 26.856 | 0.880 |
| 450 | 8.399 | 34.622 | 26.917 | 0.942 |
| 500 | 8.015 | 34.604 | 26.961 | 1.002 |
| 550 | 7.493 | 34.589 | 27.025 | 1.060 |
| 600 | 6.927 | 34.574 | 27.093 | 1.114 |
| 650 | 6.575 | 34.567 | 27.136 | 1.166 |
| 700 | 6.106 | 34.557 | 27.190 | 1.216 |
| 750 | 5.810 | 34.554 | 27.225 | 1.264 |
| 800 | 5.516 | 34.552 | 27.259 | 1.310 |
| 900 | 5.016 | 34.555 | 27.321 | 1.398 |
| 1000 | 4.584 | 34.562 | 27.376 | 1.481 |
| 1500 | 3.008 | 34.606 | 27.570 | 1.831 |
| 2000 | 2.089 | 34.640 | 27.676 | 2.114 |
| 2500 | 1.699 | 34.662 | 27.724 | 2.359 |
| 3000 | 1.486 | 34.674 | 27.749 | 2.594 |
| 3500 | 1.249 | 34.684 | 27.774 | 2.820 |
| 4000 | 1.085 | 34.692 | 27.792 | 3.037 |
| 4495 | 1.030 | 34.696 | 27.799 | 3.252 |

CAST EP5-88-OC -033 DATE 25 NOV 88 TIME 1949 GMT
LAT 08 58.5N LONG 140 09.8W

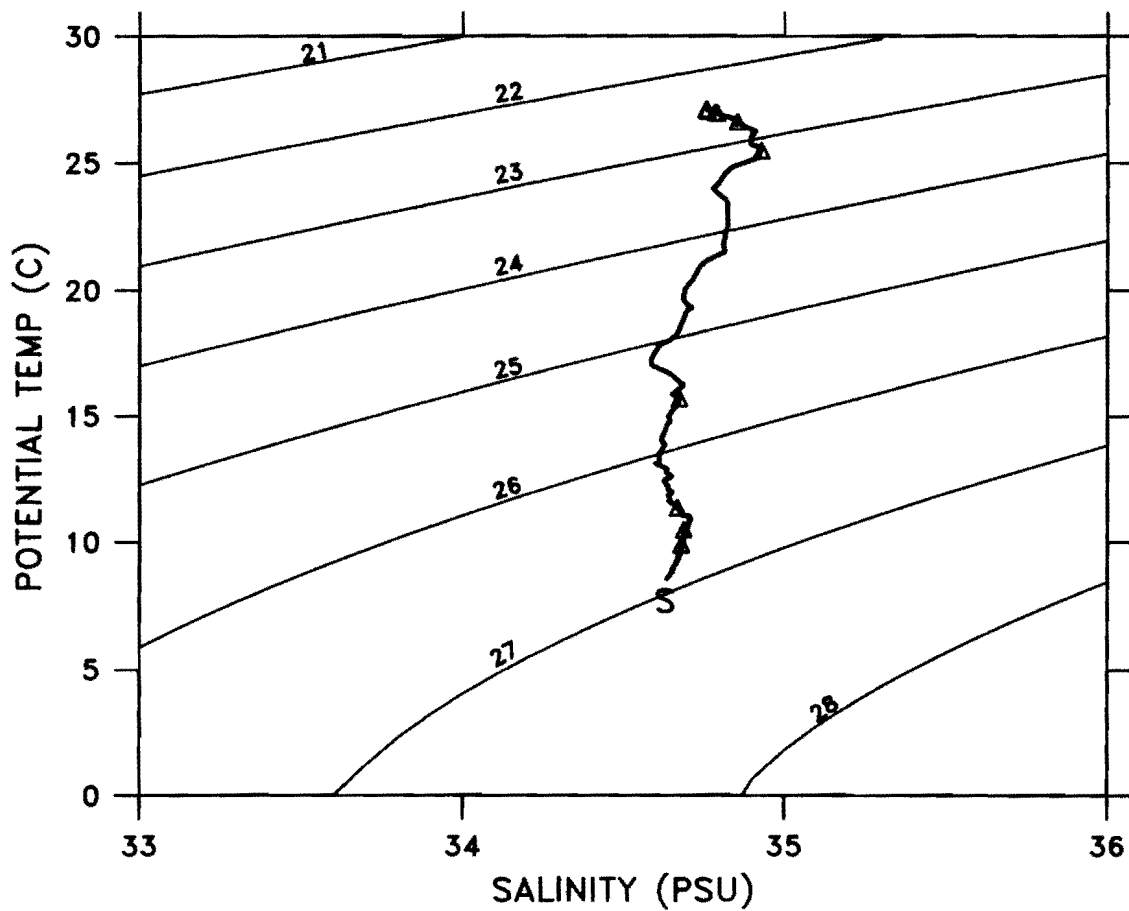


CST EP5-88-0C -033 DATE 25 NOV 88 TIME 1949 GMT
 LAT 08 58.5N LONG 140 09.8W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 135 T SPD 08 KT VISIBILITY 8
 CLOUD 6 AMOUNT 2 DRY 27.8 WET 25.0 DEPTH 5137 M

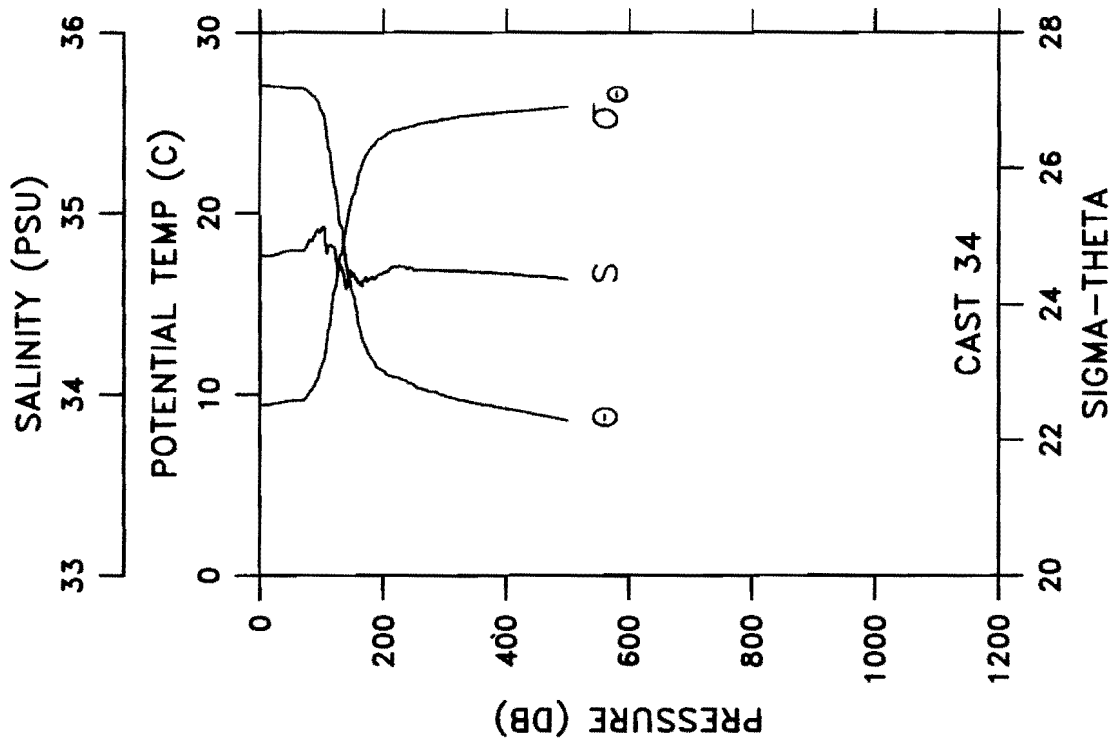


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.239 | 34.422 | 22.208 | 0.000 |
| 10 | 27.220 | 34.422 | 22.215 | 0.056 |
| 20 | 27.212 | 34.422 | 22.217 | 0.112 |
| 30 | 27.201 | 34.425 | 22.223 | 0.168 |
| 40 | 27.097 | 34.446 | 22.272 | 0.224 |
| 50 | 26.242 | 34.586 | 22.647 | 0.278 |
| 60 | 23.796 | 34.721 | 23.492 | 0.326 |
| 70 | 21.955 | 34.736 | 24.031 | 0.367 |
| 80 | 20.203 | 34.751 | 24.519 | 0.404 |
| 90 | 15.870 | 34.458 | 25.361 | 0.434 |
| 100 | 14.001 | 34.492 | 25.795 | 0.458 |
| 110 | 13.062 | 34.598 | 26.069 | 0.479 |
| 120 | 12.252 | 34.657 | 26.275 | 0.498 |
| 130 | 11.976 | 34.665 | 26.334 | 0.515 |
| 140 | 11.624 | 34.701 | 26.428 | 0.532 |
| 150 | 11.520 | 34.741 | 26.479 | 0.548 |
| 160 | 11.362 | 34.734 | 26.503 | 0.564 |
| 170 | 11.191 | 34.727 | 26.528 | 0.579 |
| 180 | 11.082 | 34.726 | 26.548 | 0.595 |
| 190 | 10.941 | 34.720 | 26.569 | 0.610 |
| 200 | 10.794 | 34.712 | 26.588 | 0.625 |
| 250 | 10.192 | 34.696 | 26.682 | 0.697 |
| 300 | 9.721 | 34.680 | 26.750 | 0.766 |
| 350 | 9.306 | 34.670 | 26.810 | 0.832 |
| 400 | 8.897 | 34.649 | 26.860 | 0.896 |
| 450 | 8.310 | 34.619 | 26.928 | 0.958 |
| 500 | 7.758 | 34.594 | 26.991 | 1.017 |
| 502 | 7.739 | 34.592 | 26.993 | 1.019 |

CAST EP5-88-0C -034 DATE 27 NOV 88 TIME 2211 GMT
LAT 07 03.0N LONG 147 29.8W

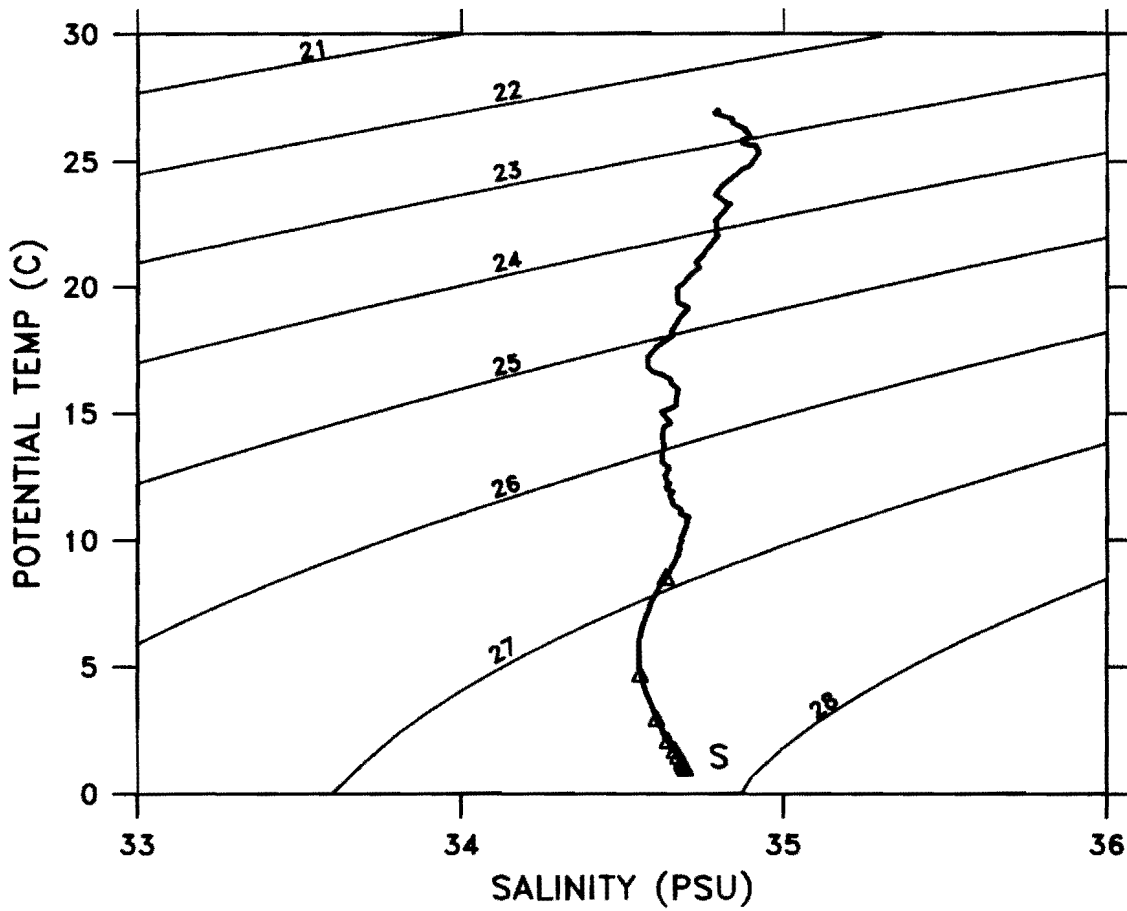


CAST EP5-88-OC -034 DATE 27 NOV 88 TIME 2211 GMT
 LAT 07 03.0N LONG 147 29.8W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 135 T SPD 22 KT VISIBILITY 8
 CLOUD 4 AMOUNT 4 DRY 27.4 WET 24.6 DEPTH 4952 M

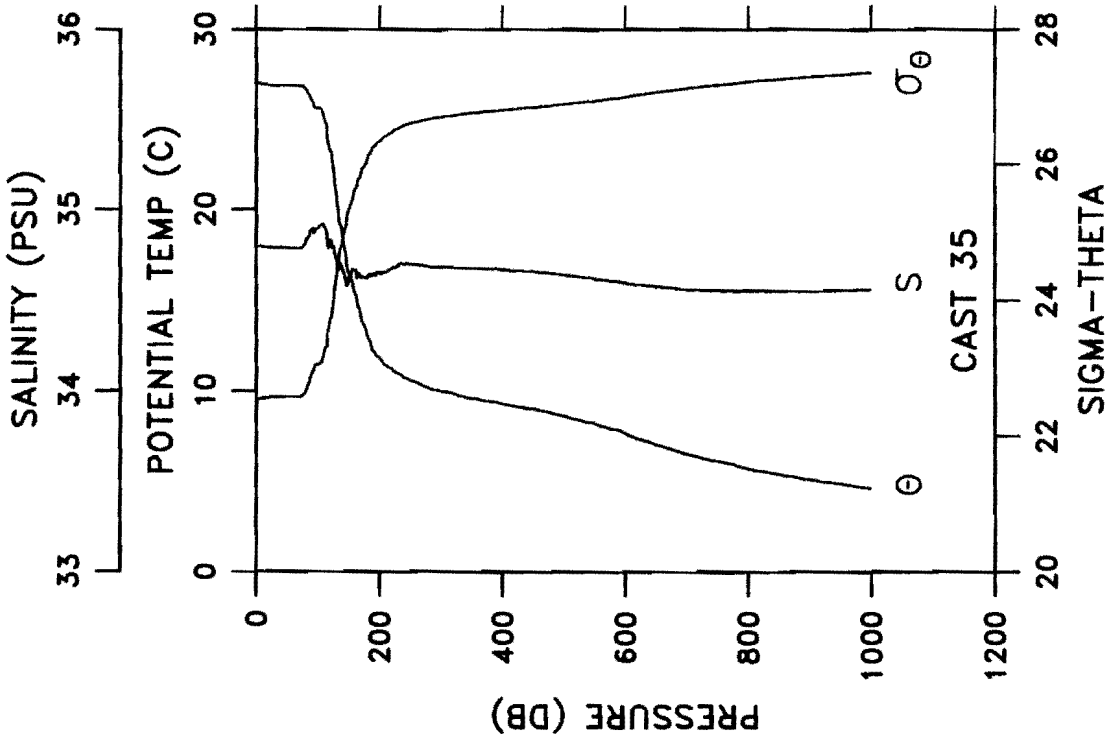


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.088 | 34.764 | 22.514 | 0.000 |
| 10 | 27.080 | 34.764 | 22.516 | 0.053 |
| 20 | 27.042 | 34.767 | 22.531 | 0.106 |
| 30 | 27.016 | 34.774 | 22.544 | 0.159 |
| 40 | 26.988 | 34.788 | 22.564 | 0.212 |
| 50 | 26.957 | 34.793 | 22.578 | 0.265 |
| 60 | 26.950 | 34.793 | 22.580 | 0.318 |
| 70 | 26.936 | 34.794 | 22.585 | 0.371 |
| 80 | 26.702 | 34.850 | 22.702 | 0.423 |
| 90 | 26.348 | 34.893 | 22.846 | 0.475 |
| 100 | 25.651 | 34.915 | 23.079 | 0.524 |
| 110 | 23.635 | 34.809 | 23.606 | 0.570 |
| 120 | 21.530 | 34.814 | 24.209 | 0.611 |
| 130 | 19.322 | 34.712 | 24.720 | 0.647 |
| 140 | 17.234 | 34.585 | 25.141 | 0.678 |
| 150 | 15.655 | 34.673 | 25.575 | 0.704 |
| 160 | 13.866 | 34.630 | 25.930 | 0.727 |
| 170 | 12.775 | 34.633 | 26.154 | 0.747 |
| 180 | 12.074 | 34.640 | 26.296 | 0.766 |
| 190 | 11.485 | 34.658 | 26.421 | 0.783 |
| 200 | 11.313 | 34.671 | 26.463 | 0.799 |
| 250 | 10.523 | 34.685 | 26.616 | 0.875 |
| 300 | 9.910 | 34.680 | 26.718 | 0.946 |
| 350 | 9.518 | 34.676 | 26.780 | 1.014 |
| 400 | 9.227 | 34.665 | 26.820 | 1.080 |
| 450 | 8.910 | 34.655 | 26.863 | 1.144 |
| 500 | 8.565 | 34.635 | 26.901 | 1.207 |
| 500 | 8.565 | 34.635 | 26.901 | 1.207 |

CAST EP5-88-OC -035 DATE 28 NOV 88 TIME 0105 GMT
LAT 07 01.2N LONG 147 28.4W

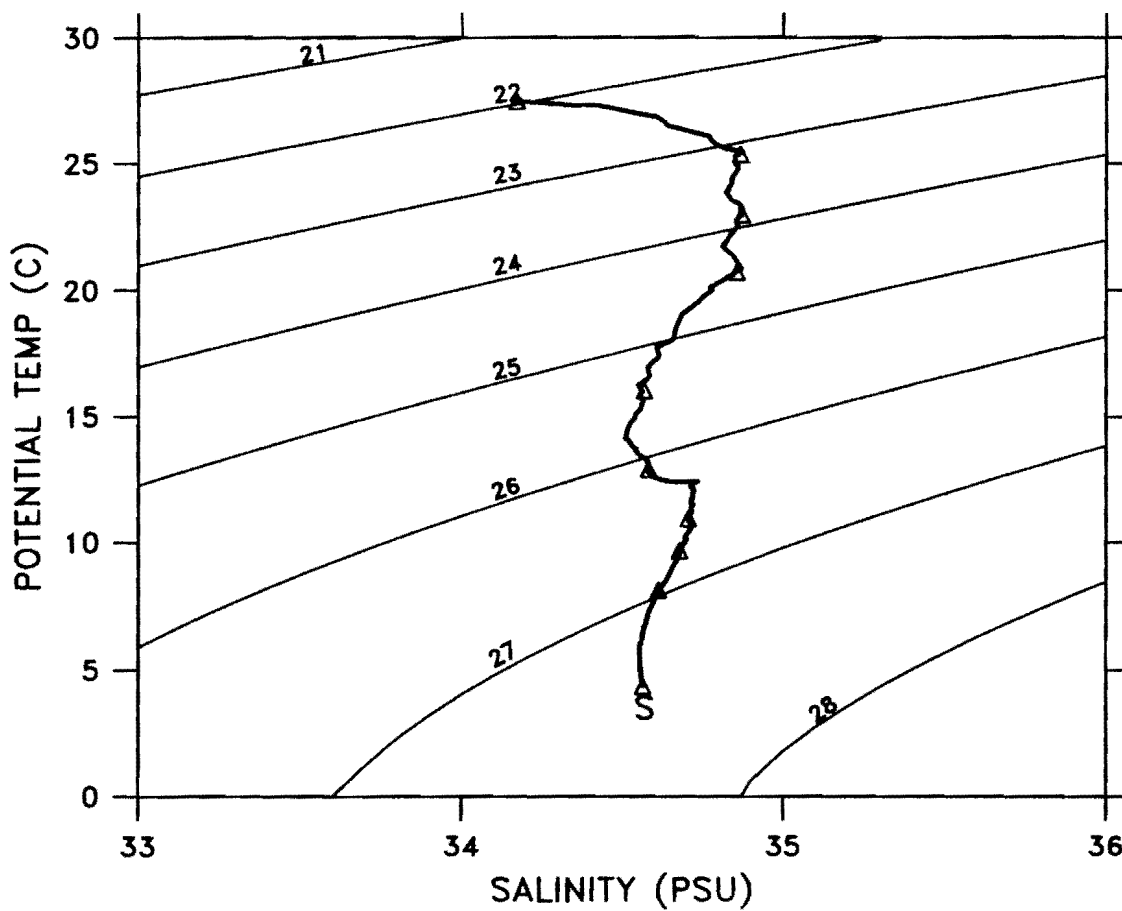


CAST EPS-88-OC -035 DATE 28 NOV 88 TIME 0105 GMT
 LAT 07 01.2N LONG 147 28.4W WEATHER 2 SEA STATE 4
 BAROMETER 09 WIND DIR 150 T SPD 13 KT VISIBILITY 8
 CLOUD 7 AMOUNT 7 DRY 27.7 WET 24.9 DEPTH 4930 M

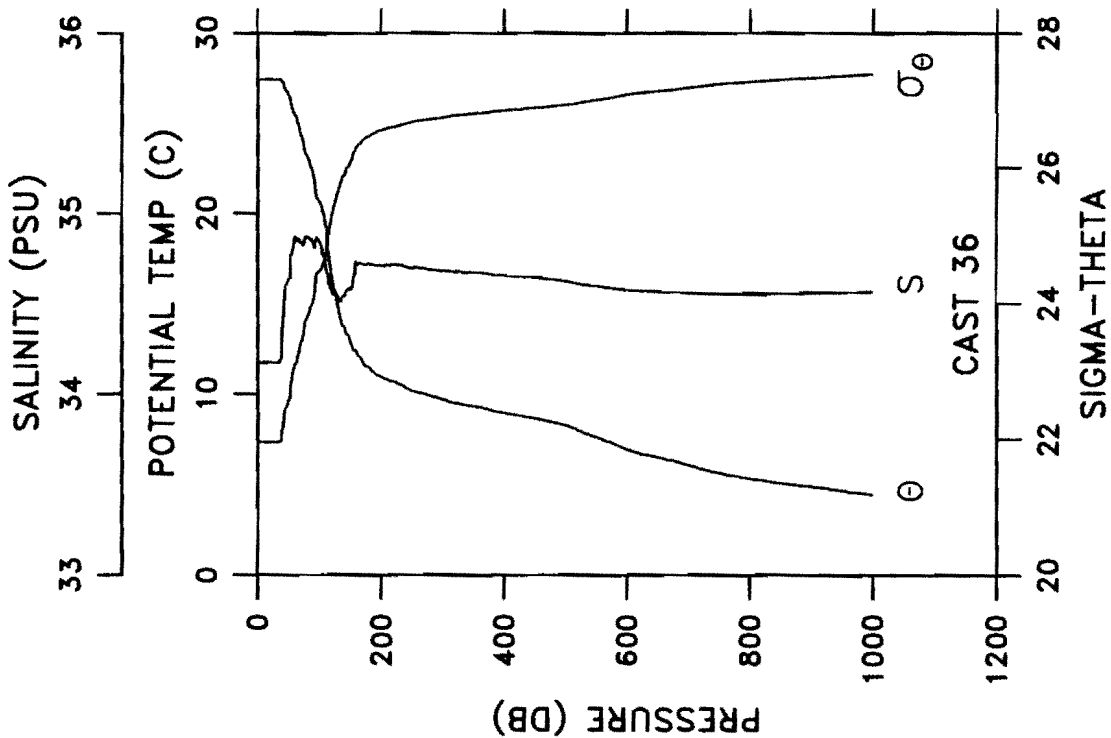


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.046 | 34.797 | 22.552 | 0.000 |
| 10 | 27.005 | 34.793 | 22.563 | 0.053 |
| 20 | 26.967 | 34.791 | 22.573 | 0.106 |
| 30 | 26.932 | 34.790 | 22.583 | 0.158 |
| 40 | 26.927 | 34.790 | 22.585 | 0.211 |
| 50 | 26.918 | 34.788 | 22.586 | 0.264 |
| 60 | 26.910 | 34.786 | 22.587 | 0.316 |
| 70 | 26.900 | 34.785 | 22.590 | 0.369 |
| 80 | 26.738 | 34.826 | 22.672 | 0.422 |
| 90 | 26.071 | 34.893 | 22.932 | 0.473 |
| 100 | 25.646 | 34.896 | 23.066 | 0.522 |
| 110 | 25.051 | 34.908 | 23.258 | 0.569 |
| 120 | 23.287 | 34.835 | 23.727 | 0.614 |
| 130 | 20.740 | 34.738 | 24.366 | 0.653 |
| 140 | 18.503 | 34.666 | 24.893 | 0.686 |
| 150 | 16.511 | 34.623 | 25.341 | 0.715 |
| 160 | 15.357 | 34.668 | 25.638 | 0.741 |
| 170 | 14.043 | 34.624 | 25.889 | 0.764 |
| 180 | 13.079 | 34.624 | 26.086 | 0.784 |
| 190 | 12.230 | 34.647 | 26.271 | 0.803 |
| 200 | 11.866 | 34.652 | 26.345 | 0.821 |
| 250 | 10.603 | 34.698 | 26.612 | 0.899 |
| 300 | 10.004 | 34.683 | 26.704 | 0.971 |
| 350 | 9.614 | 34.679 | 26.767 | 1.040 |
| 400 | 9.307 | 34.668 | 26.809 | 1.106 |
| 450 | 9.032 | 34.660 | 26.847 | 1.171 |
| 500 | 8.647 | 34.642 | 26.894 | 1.235 |
| 550 | 8.225 | 34.618 | 26.940 | 1.296 |
| 600 | 7.672 | 34.598 | 27.007 | 1.355 |
| 650 | 7.036 | 34.576 | 27.080 | 1.411 |
| 700 | 6.538 | 34.561 | 27.136 | 1.463 |
| 750 | 6.149 | 34.556 | 27.183 | 1.514 |
| 800 | 5.724 | 34.552 | 27.234 | 1.562 |
| 900 | 5.109 | 34.553 | 27.308 | 1.652 |
| 1000 | 4.621 | 34.559 | 27.369 | 1.736 |
| 1500 | 2.921 | 34.608 | 27.579 | 2.084 |
| 2000 | 2.068 | 34.642 | 27.680 | 2.361 |
| 2500 | 1.725 | 34.662 | 27.722 | 2.606 |
| 3000 | 1.503 | 34.673 | 27.747 | 2.843 |
| 3500 | 1.263 | 34.684 | 27.773 | 3.070 |
| 4000 | 1.095 | 34.692 | 27.792 | 3.290 |
| 4500 | 1.016 | 34.696 | 27.800 | 3.506 |
| 4695 | 1.012 | 34.696 | 27.800 | 3.592 |

CAST EP5-88-OC -036 DATE 28 NOV 88 TIME 1511 GMT
LAT 06 59.5N LONG 144 59.3W

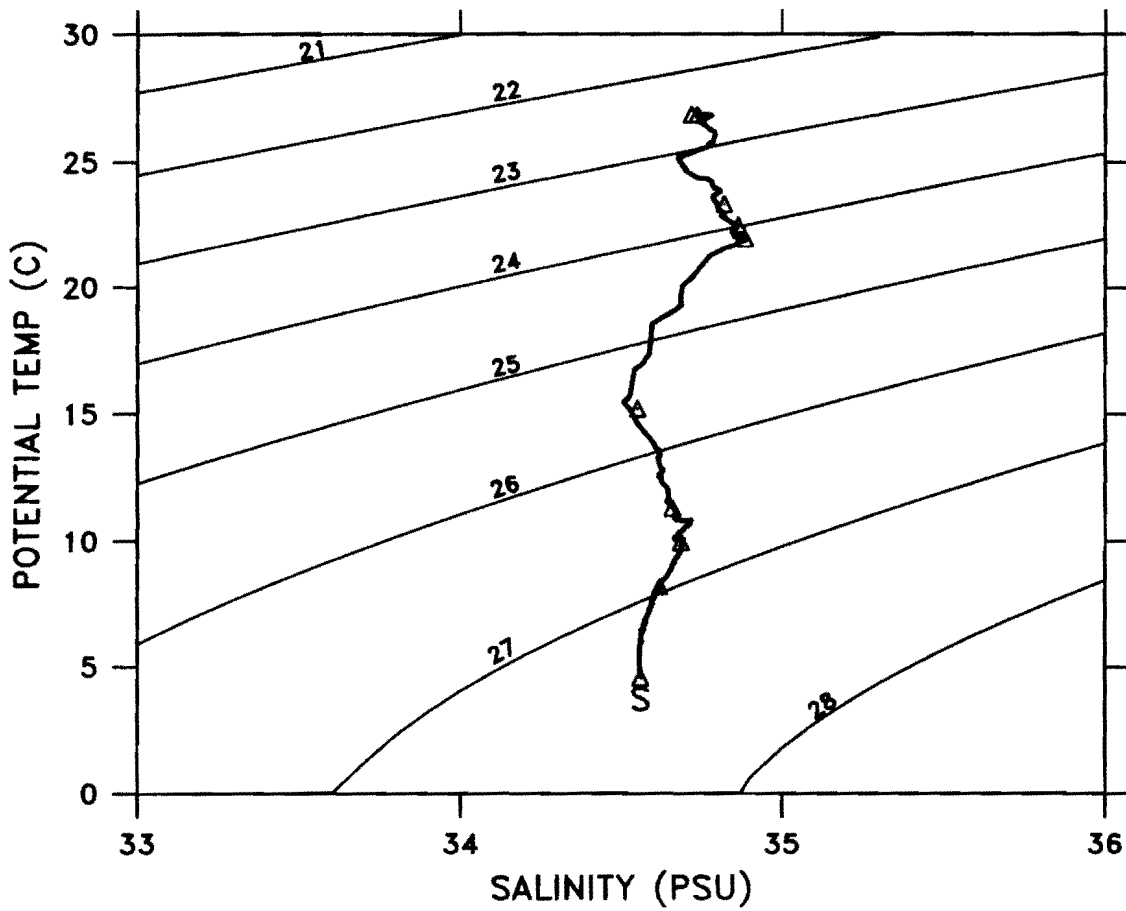


CAST EP5-88-OC -036 DATE 28 NOV 88 TIME 1511 GMT
 LAT 06 59.5N LONG 144 59.3W WEATHER 9 SEA STATE 4
 BAROMETER 10 WIND DIR 150 T SPD 18 KT VISIBILITY 7
 CLOUD 9 AMOUNT 6 DRY 25.0 WET 23.6 DEPTH 5121 M

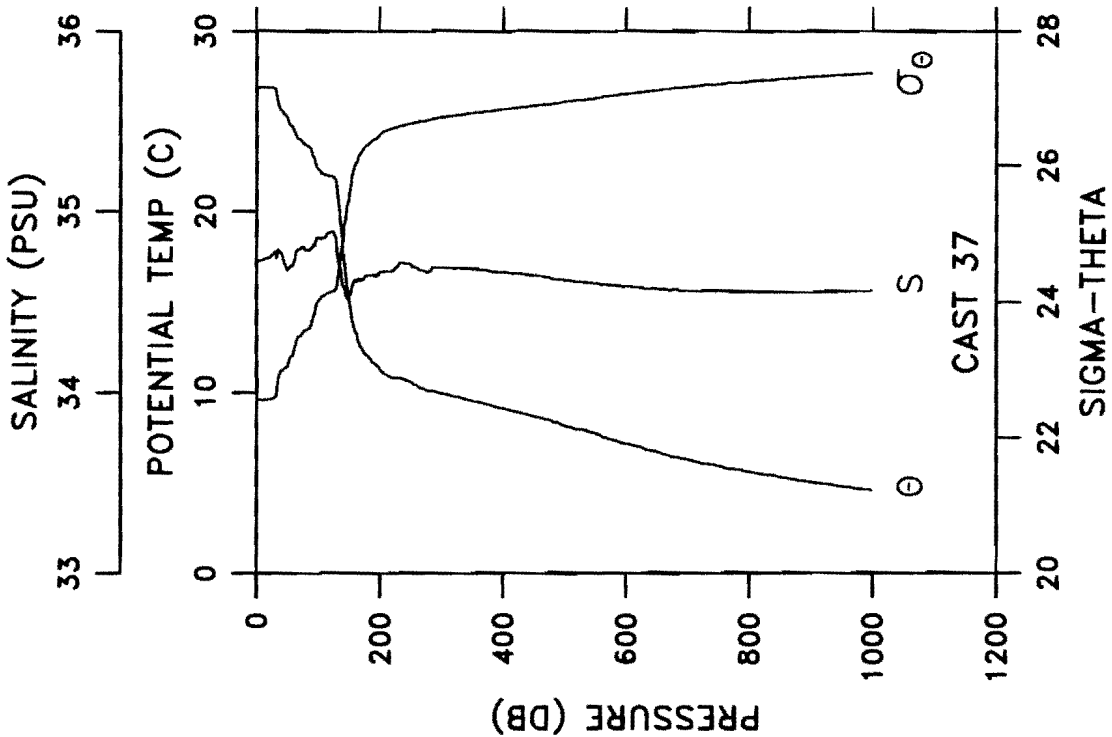


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.449 | 34.173 | 21.954 | 0.000 |
| 10 | 27.451 | 34.174 | 21.953 | 0.059 |
| 20 | 27.456 | 34.175 | 21.952 | 0.117 |
| 30 | 27.445 | 34.173 | 21.955 | 0.176 |
| 40 | 27.301 | 34.379 | 22.156 | 0.234 |
| 50 | 26.574 | 34.634 | 22.580 | 0.289 |
| 60 | 25.469 | 34.873 | 23.104 | 0.339 |
| 70 | 24.295 | 34.842 | 23.436 | 0.385 |
| 80 | 23.139 | 34.867 | 23.795 | 0.428 |
| 90 | 22.122 | 34.834 | 24.059 | 0.468 |
| 100 | 20.600 | 34.845 | 24.486 | 0.504 |
| 110 | 19.303 | 34.712 | 24.724 | 0.538 |
| 120 | 16.514 | 34.580 | 25.307 | 0.568 |
| 130 | 14.834 | 34.531 | 25.647 | 0.593 |
| 140 | 13.732 | 34.544 | 25.891 | 0.615 |
| 150 | 12.897 | 34.575 | 26.085 | 0.635 |
| 160 | 12.374 | 34.723 | 26.303 | 0.654 |
| 170 | 11.761 | 34.719 | 26.417 | 0.671 |
| 180 | 11.482 | 34.720 | 26.470 | 0.687 |
| 190 | 11.158 | 34.711 | 26.522 | 0.703 |
| 200 | 10.966 | 34.709 | 26.556 | 0.718 |
| 250 | 10.177 | 34.695 | 26.684 | 0.791 |
| 300 | 9.704 | 34.681 | 26.753 | 0.860 |
| 350 | 9.328 | 34.670 | 26.807 | 0.926 |
| 400 | 8.971 | 34.656 | 26.854 | 0.990 |
| 450 | 8.652 | 34.643 | 26.894 | 1.053 |
| 500 | 8.267 | 34.624 | 26.938 | 1.114 |
| 550 | 7.615 | 34.598 | 27.015 | 1.173 |
| 600 | 6.931 | 34.576 | 27.095 | 1.228 |
| 650 | 6.506 | 34.566 | 27.144 | 1.279 |
| 700 | 6.081 | 34.557 | 27.193 | 1.329 |
| 750 | 5.640 | 34.554 | 27.245 | 1.376 |
| 800 | 5.331 | 34.554 | 27.283 | 1.421 |
| 900 | 4.891 | 34.558 | 27.337 | 1.507 |
| 1000 | 4.453 | 34.565 | 27.392 | 1.587 |
| 1015 | 4.381 | 34.567 | 27.402 | 1.599 |

CAST EP5-88-OC -037 DATE 29 NOV 88 TIME 0253 GMT
LAT 06 59.9N LONG 142 28.8W

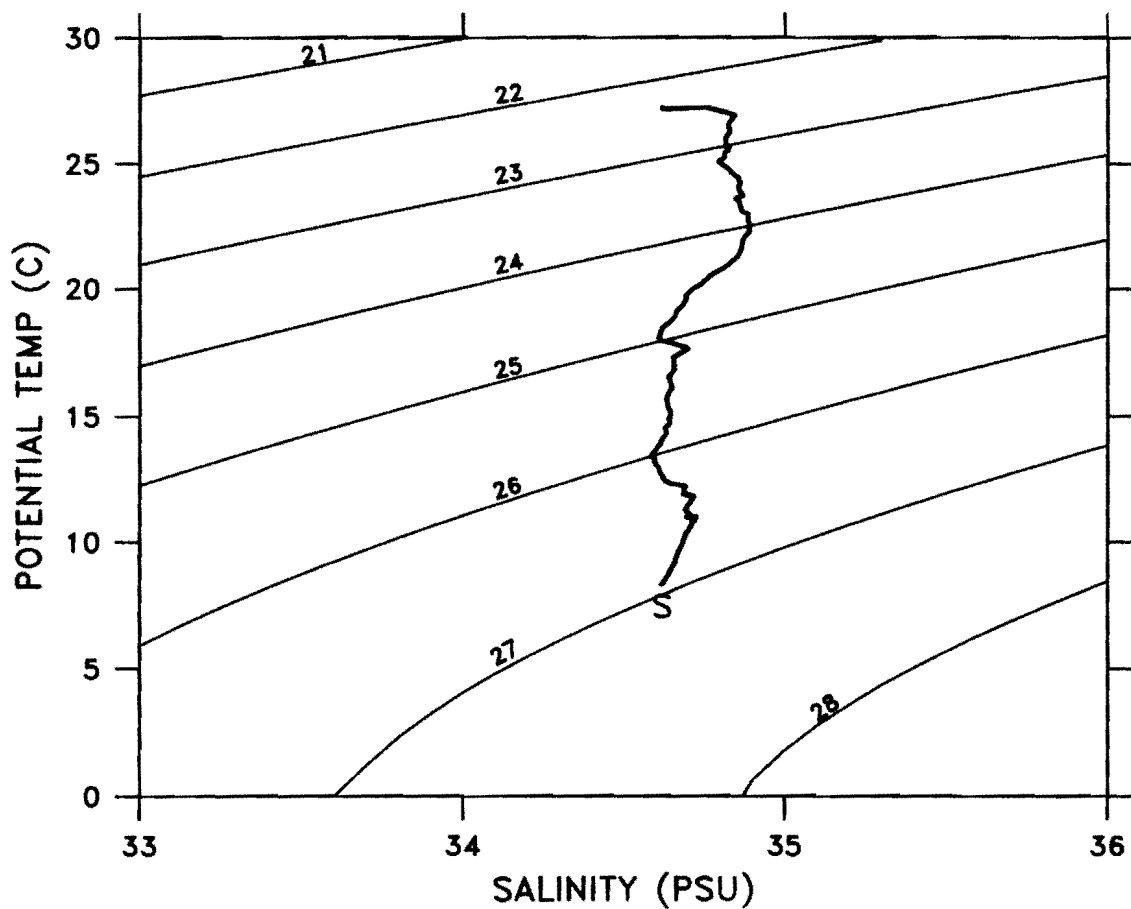


CAST EP5-88-0C -037 DATE 29 NOV 88 TIME 0253 GMT
 LAT 06 59.9N LONG 142 28.8W WEATHER 2 SEA STATE 3
 BAROMETER 10 WIND DIR 185 T SPD 11 KT VISIBILITY 7
 CLOUD 5 AMOUNT 6 DRY 25.1 WET 23.5 DEPTH 5010 M

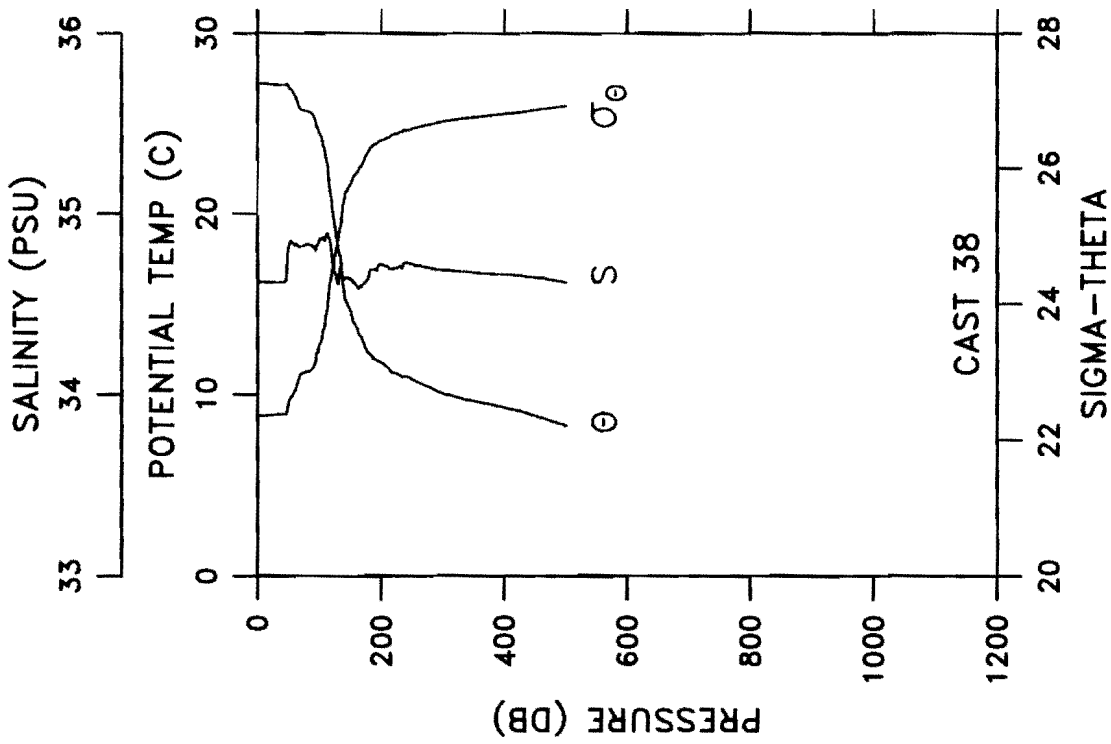


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.866 | 34.728 | 22.558 | 0.000 |
| 10 | 26.874 | 34.735 | 22.560 | 0.053 |
| 20 | 26.878 | 34.745 | 22.566 | 0.106 |
| 30 | 26.826 | 34.778 | 22.608 | 0.158 |
| 40 | 25.602 | 34.771 | 22.986 | 0.209 |
| 50 | 25.160 | 34.676 | 23.049 | 0.257 |
| 60 | 24.513 | 34.718 | 23.277 | 0.304 |
| 70 | 23.971 | 34.796 | 23.497 | 0.349 |
| 80 | 23.655 | 34.786 | 23.582 | 0.393 |
| 90 | 23.163 | 34.800 | 23.737 | 0.436 |
| 100 | 22.312 | 34.852 | 24.019 | 0.476 |
| 110 | 22.036 | 34.851 | 24.096 | 0.515 |
| 120 | 21.938 | 34.887 | 24.151 | 0.553 |
| 130 | 21.260 | 34.775 | 24.253 | 0.591 |
| 140 | 17.723 | 34.590 | 25.027 | 0.625 |
| 150 | 15.100 | 34.531 | 25.589 | 0.652 |
| 160 | 13.330 | 34.622 | 26.034 | 0.674 |
| 170 | 12.515 | 34.623 | 26.197 | 0.693 |
| 180 | 12.033 | 34.645 | 26.308 | 0.711 |
| 190 | 11.616 | 34.646 | 26.387 | 0.728 |
| 200 | 11.260 | 34.669 | 26.471 | 0.744 |
| 250 | 10.594 | 34.708 | 26.621 | 0.820 |
| 300 | 9.958 | 34.691 | 26.718 | 0.892 |
| 350 | 9.562 | 34.682 | 26.778 | 0.960 |
| 400 | 9.133 | 34.666 | 26.835 | 1.025 |
| 450 | 8.694 | 34.647 | 26.891 | 1.089 |
| 500 | 8.161 | 34.619 | 26.951 | 1.150 |
| 550 | 7.738 | 34.601 | 26.999 | 1.208 |
| 600 | 7.162 | 34.587 | 27.071 | 1.264 |
| 650 | 6.734 | 34.574 | 27.120 | 1.317 |
| 700 | 6.286 | 34.563 | 27.171 | 1.368 |
| 750 | 5.940 | 34.563 | 27.215 | 1.416 |
| 800 | 5.621 | 34.556 | 27.249 | 1.463 |
| 900 | 5.046 | 34.556 | 27.318 | 1.551 |
| 1000 | 4.581 | 34.563 | 27.377 | 1.634 |
| 1000 | 4.581 | 34.563 | 27.377 | 1.634 |

CAST EP5-88-OC -038 DATE 29 NOV 88 TIME 2334 GMT
LAT 07 01.2N LONG 140 07.0W

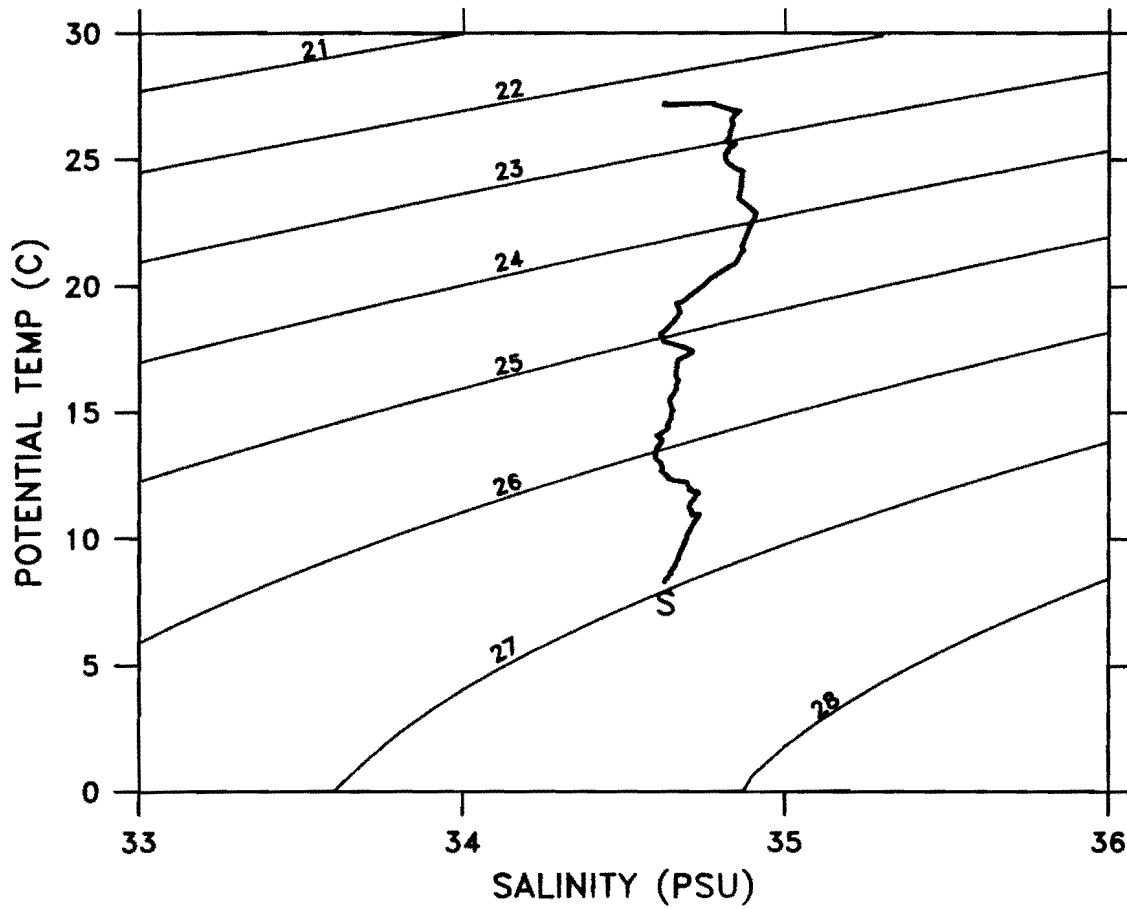


CAST EP5-88-OC -038 DATE 29 NOV 88 TIME 2334 GMT
 LAT 07 01.2N LONG 140 07.0W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 150 T SPD 18 KT VISIBILITY 7
 CLOUD 3 AMOUNT 3 DRY 26.2 WET 24.2 DEPTH 4990 M

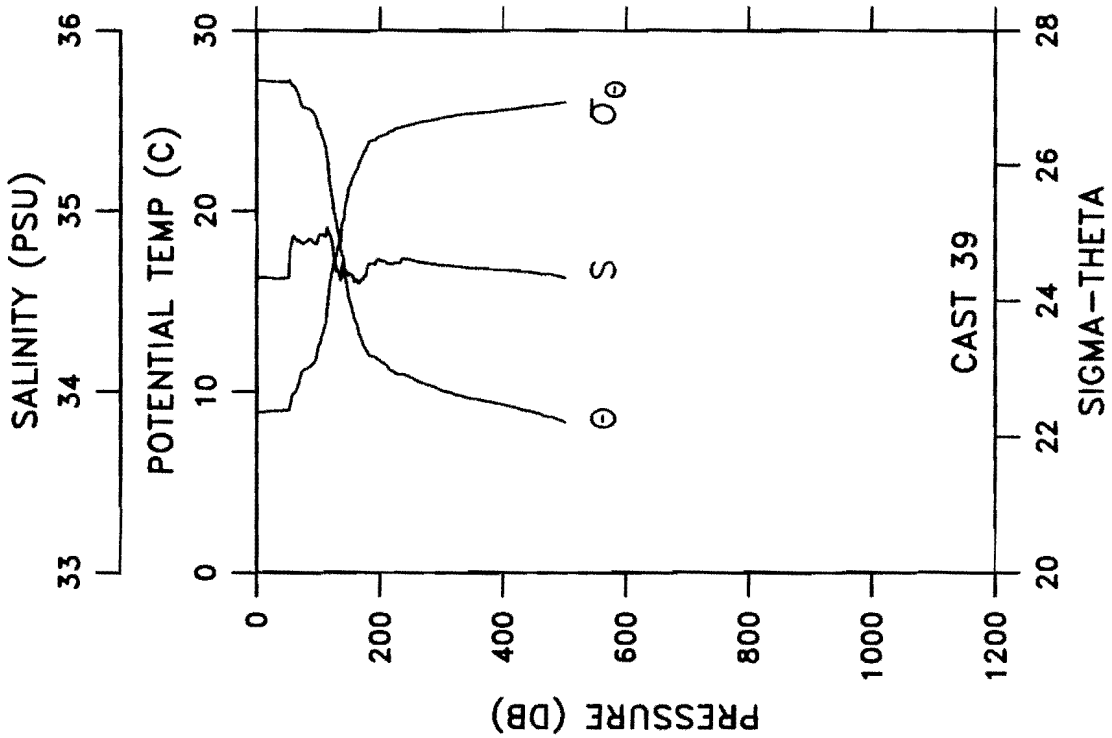


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.218 | 34.620 | 22.364 | 0.000 |
| 10 | 27.225 | 34.621 | 22.362 | 0.055 |
| 20 | 27.191 | 34.619 | 22.372 | 0.109 |
| 30 | 27.175 | 34.619 | 22.377 | 0.164 |
| 40 | 27.162 | 34.618 | 22.381 | 0.219 |
| 50 | 27.067 | 34.806 | 22.552 | 0.273 |
| 60 | 26.579 | 34.827 | 22.723 | 0.325 |
| 70 | 25.763 | 34.818 | 22.971 | 0.375 |
| 80 | 25.672 | 34.829 | 23.008 | 0.424 |
| 90 | 25.456 | 34.814 | 23.063 | 0.473 |
| 100 | 24.437 | 34.857 | 23.405 | 0.520 |
| 110 | 23.099 | 34.866 | 23.805 | 0.564 |
| 120 | 20.509 | 34.768 | 24.451 | 0.602 |
| 130 | 18.078 | 34.610 | 24.955 | 0.635 |
| 140 | 15.693 | 34.633 | 25.536 | 0.663 |
| 150 | 14.685 | 34.641 | 25.765 | 0.686 |
| 160 | 13.734 | 34.604 | 25.937 | 0.708 |
| 170 | 13.016 | 34.606 | 26.085 | 0.728 |
| 180 | 12.313 | 34.654 | 26.261 | 0.747 |
| 190 | 11.961 | 34.690 | 26.356 | 0.764 |
| 200 | 11.780 | 34.718 | 26.413 | 0.781 |
| 250 | 10.861 | 34.720 | 26.583 | 0.860 |
| 300 | 10.075 | 34.686 | 26.694 | 0.932 |
| 350 | 9.657 | 34.672 | 26.754 | 1.001 |
| 400 | 9.290 | 34.662 | 26.807 | 1.068 |
| 450 | 8.862 | 34.645 | 26.863 | 1.133 |
| 500 | 8.316 | 34.617 | 26.926 | 1.195 |
| 501 | 8.312 | 34.616 | 26.926 | 1.196 |

CAST EP5-88-OC -039 DATE 30 NOV 88 TIME 0024 GMT
LAT 06 59.0N LONG 140 08.4W

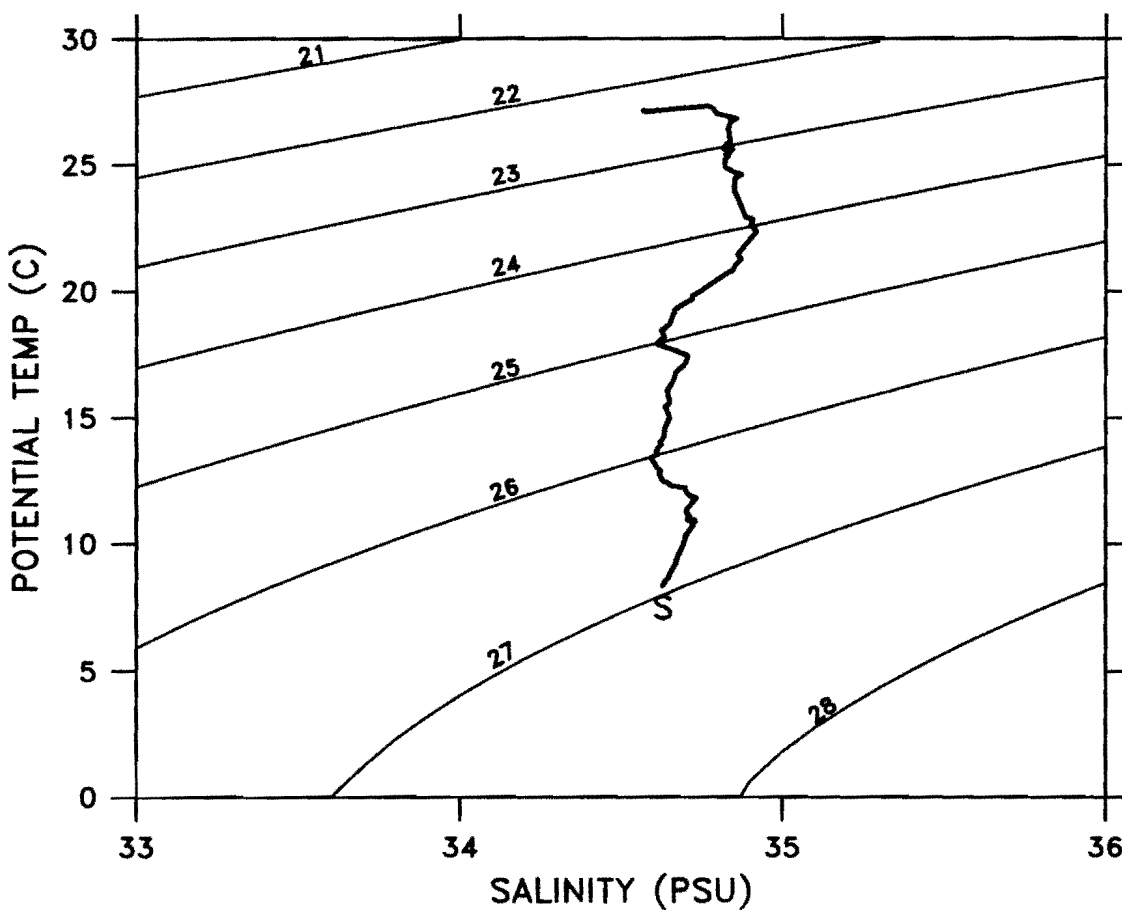


CAST EP5-88-0C -039 DATE 30 NOV 88 TIME 0024 GMT
 LAT 06 59.0N LONG 140 08.4W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 155 T SPD 21 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.2 WET 24.6 DEPTH 4968 M

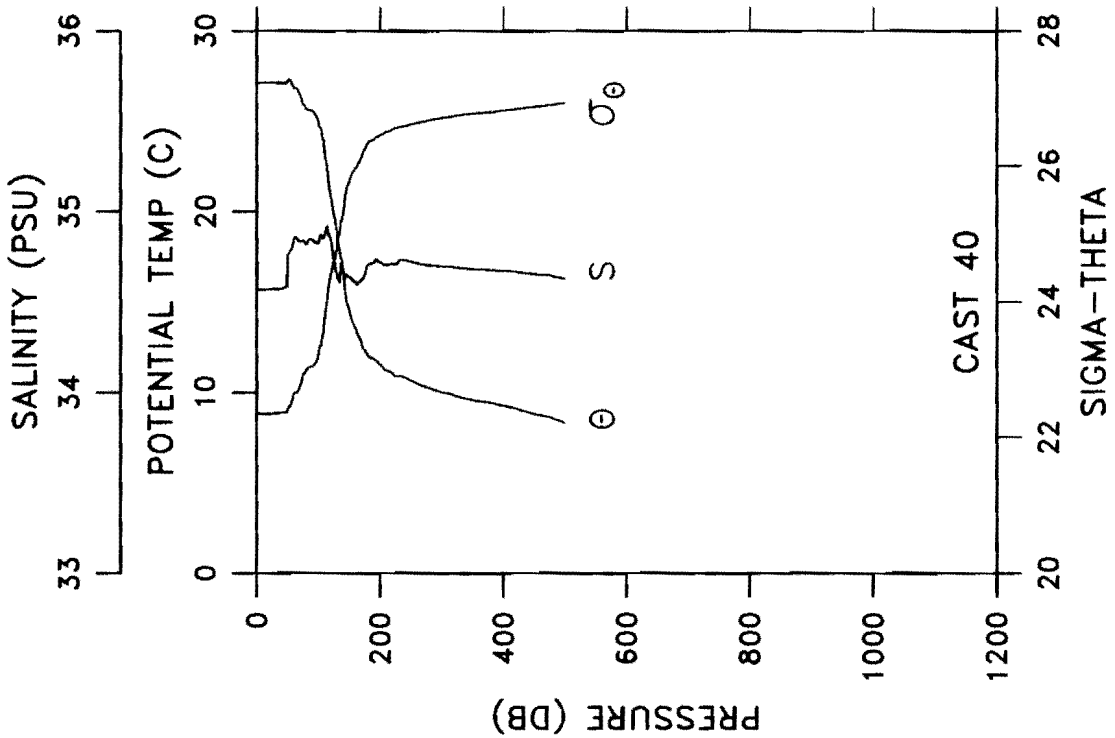


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.221 | 34.630 | 22.370 | 0.000 |
| 10 | 27.230 | 34.628 | 22.366 | 0.055 |
| 20 | 27.188 | 34.626 | 22.378 | 0.109 |
| 30 | 27.156 | 34.623 | 22.386 | 0.164 |
| 40 | 27.151 | 34.623 | 22.387 | 0.218 |
| 50 | 27.151 | 34.626 | 22.390 | 0.273 |
| 60 | 26.914 | 34.858 | 22.640 | 0.326 |
| 70 | 26.113 | 34.829 | 22.871 | 0.378 |
| 80 | 25.674 | 34.827 | 23.006 | 0.427 |
| 90 | 25.482 | 34.832 | 23.069 | 0.476 |
| 100 | 24.607 | 34.851 | 23.349 | 0.523 |
| 110 | 23.706 | 34.859 | 23.623 | 0.568 |
| 120 | 21.318 | 34.862 | 24.303 | 0.608 |
| 130 | 19.309 | 34.661 | 24.684 | 0.642 |
| 140 | 17.445 | 34.712 | 25.188 | 0.673 |
| 150 | 15.065 | 34.652 | 25.690 | 0.698 |
| 160 | 13.908 | 34.619 | 25.912 | 0.721 |
| 170 | 12.942 | 34.615 | 26.106 | 0.741 |
| 180 | 12.248 | 34.694 | 26.305 | 0.760 |
| 190 | 11.970 | 34.704 | 26.366 | 0.777 |
| 200 | 11.747 | 34.726 | 26.425 | 0.793 |
| 250 | 10.802 | 34.728 | 26.600 | 0.871 |
| 300 | 10.092 | 34.696 | 26.699 | 0.943 |
| 350 | 9.624 | 34.681 | 26.766 | 1.012 |
| 400 | 9.291 | 34.670 | 26.813 | 1.079 |
| 450 | 8.872 | 34.655 | 26.868 | 1.143 |
| 500 | 8.332 | 34.626 | 26.930 | 1.205 |
| 502 | 8.318 | 34.626 | 26.932 | 1.207 |

CAST EP5-88-OC -040 DATE 30 NOV 88 TIME 0107 GMT
LAT 07 01.1N LONG 140 09.0W

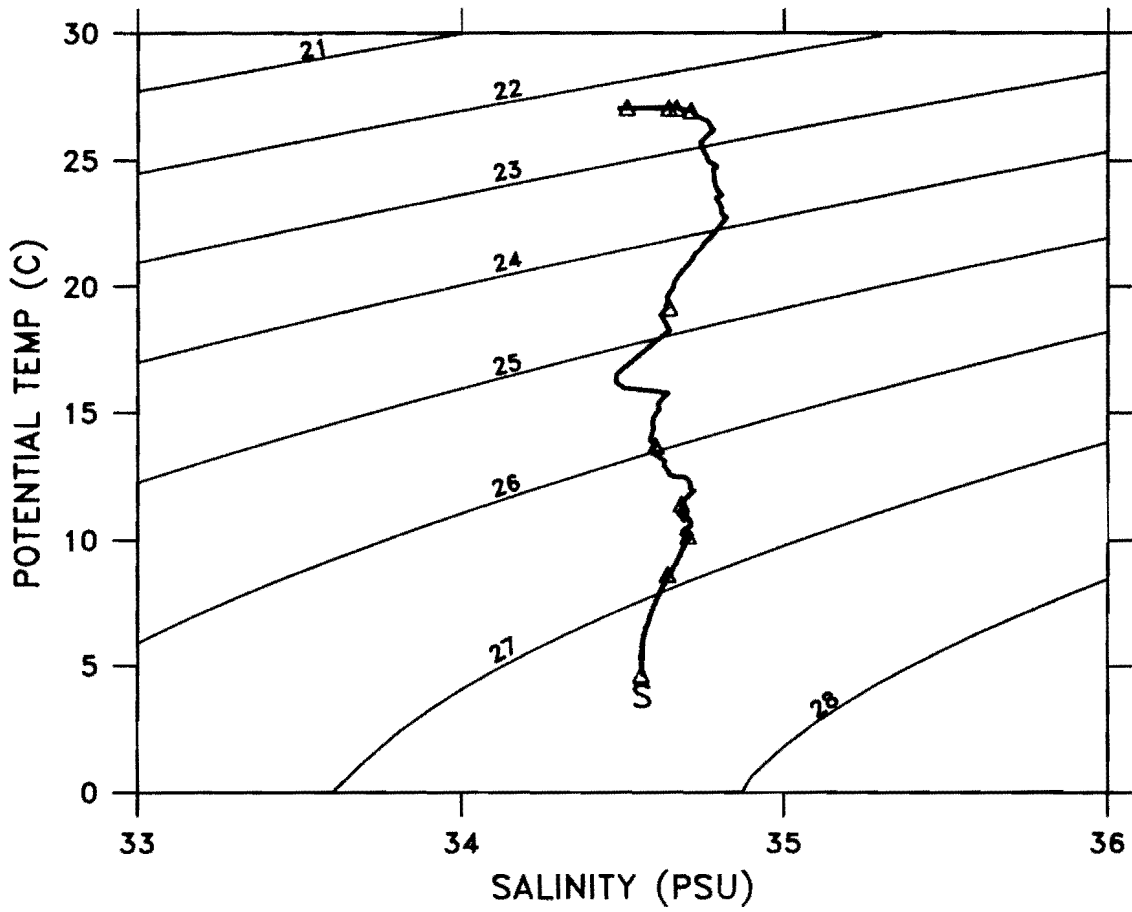


CAST EPS-88-OC -040 DATE 30 NOV 88 TIME 0107 GMT
 LAT 07 01.1N LONG 140 09.0W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 155 T SPD 17 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 27.6 WET 25.1 DEPTH 4957 M

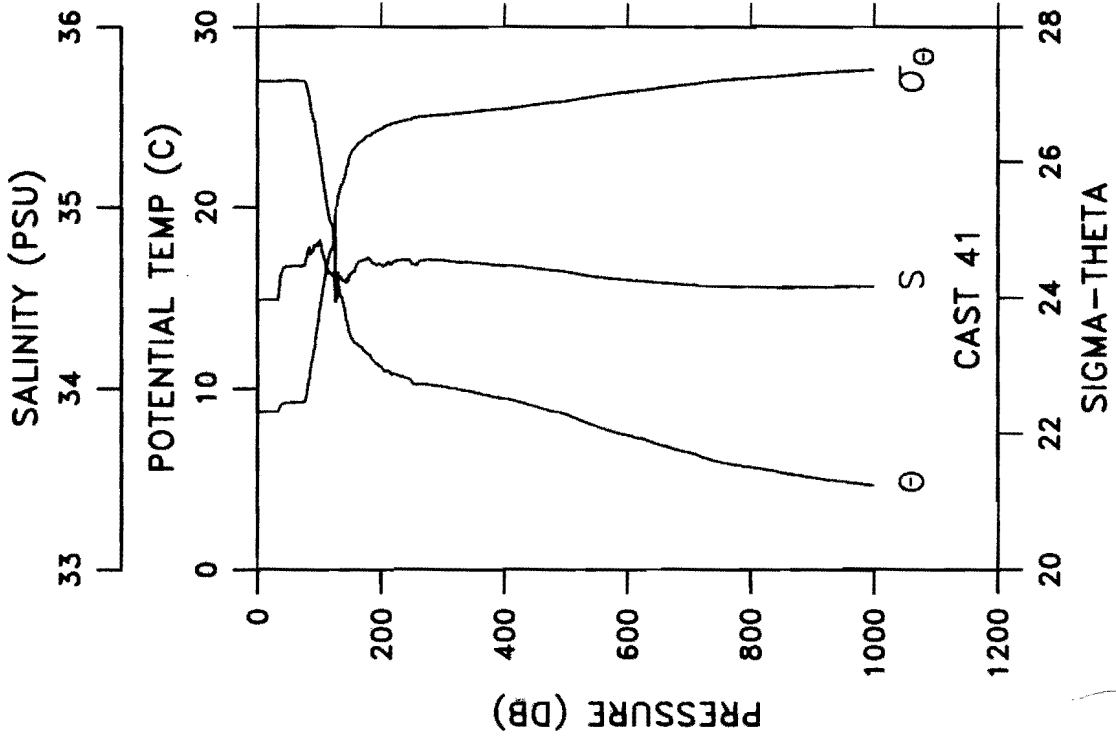


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.141 | 34.566 | 22.348 | 0.000 |
| 10 | 27.139 | 34.568 | 22.350 | 0.055 |
| 20 | 27.140 | 34.568 | 22.350 | 0.110 |
| 30 | 27.117 | 34.572 | 22.360 | 0.164 |
| 40 | 27.102 | 34.573 | 22.366 | 0.219 |
| 50 | 27.275 | 34.737 | 22.434 | 0.274 |
| 60 | 26.843 | 34.850 | 22.657 | 0.327 |
| 70 | 26.474 | 34.833 | 22.761 | 0.379 |
| 80 | 25.661 | 34.818 | 23.003 | 0.429 |
| 90 | 25.546 | 34.843 | 23.057 | 0.478 |
| 100 | 24.873 | 34.822 | 23.247 | 0.526 |
| 110 | 23.249 | 34.875 | 23.768 | 0.570 |
| 120 | 20.823 | 34.847 | 24.426 | 0.608 |
| 130 | 18.682 | 34.651 | 24.836 | 0.642 |
| 140 | 16.797 | 34.670 | 25.310 | 0.671 |
| 150 | 14.579 | 34.637 | 25.784 | 0.695 |
| 160 | 13.574 | 34.612 | 25.976 | 0.717 |
| 170 | 12.756 | 34.619 | 26.147 | 0.737 |
| 180 | 12.065 | 34.701 | 26.345 | 0.755 |
| 190 | 11.864 | 34.718 | 26.396 | 0.772 |
| 200 | 11.557 | 34.717 | 26.453 | 0.788 |
| 250 | 10.668 | 34.721 | 26.618 | 0.865 |
| 300 | 10.026 | 34.696 | 26.711 | 0.936 |
| 350 | 9.599 | 34.680 | 26.770 | 1.004 |
| 400 | 9.280 | 34.671 | 26.815 | 1.071 |
| 450 | 8.812 | 34.652 | 26.876 | 1.135 |
| 499 | 8.326 | 34.628 | 26.933 | 1.196 |

CAST EP5-88-OC -041 DATE 30 NOV 88 TIME 1332 GMT
LAT 06 58.9N LONG 137 30.5W



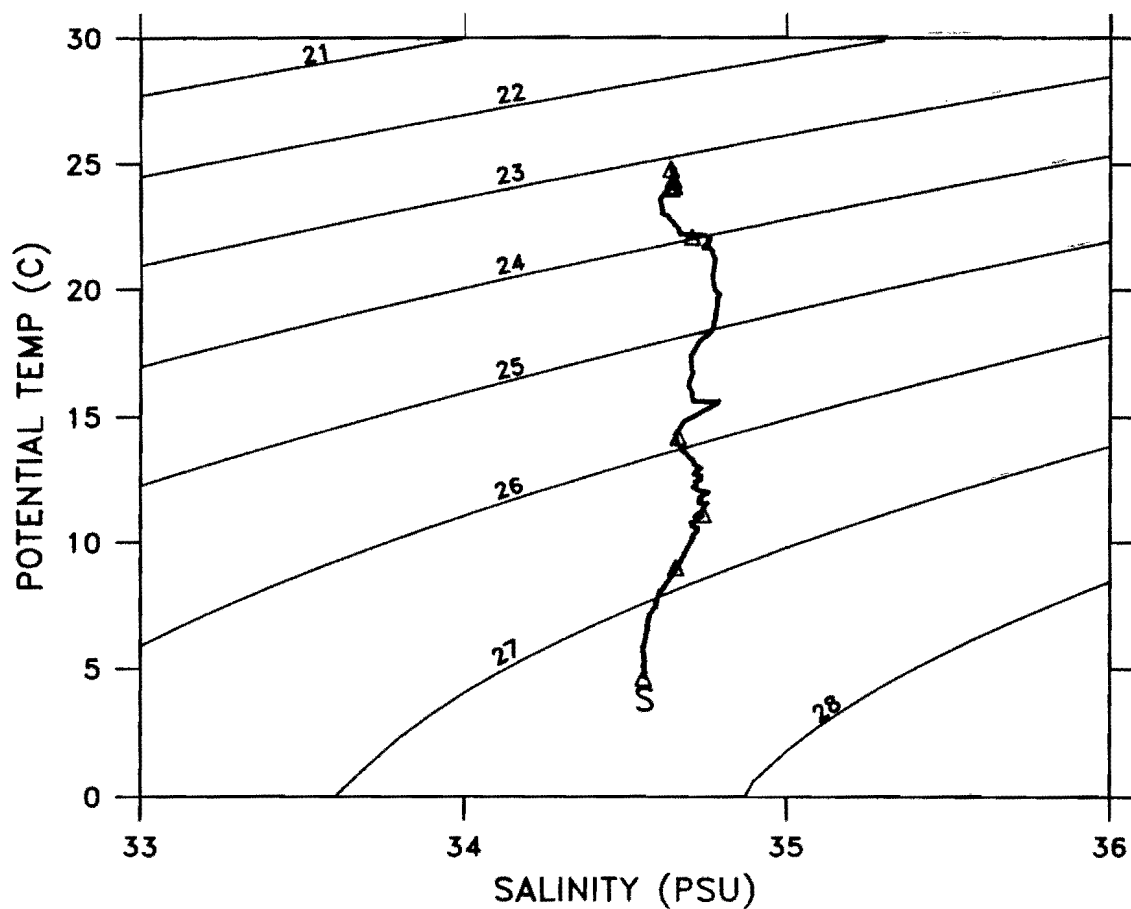
CAST EPS-88-OC -041 DATE 30 NOV 88 TIME 1332 GMT
 LAT 06 58.9N LONG 137 30.5W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 140 T SPD 16 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 25.0 WET 22.8 DEPTH 4751 M



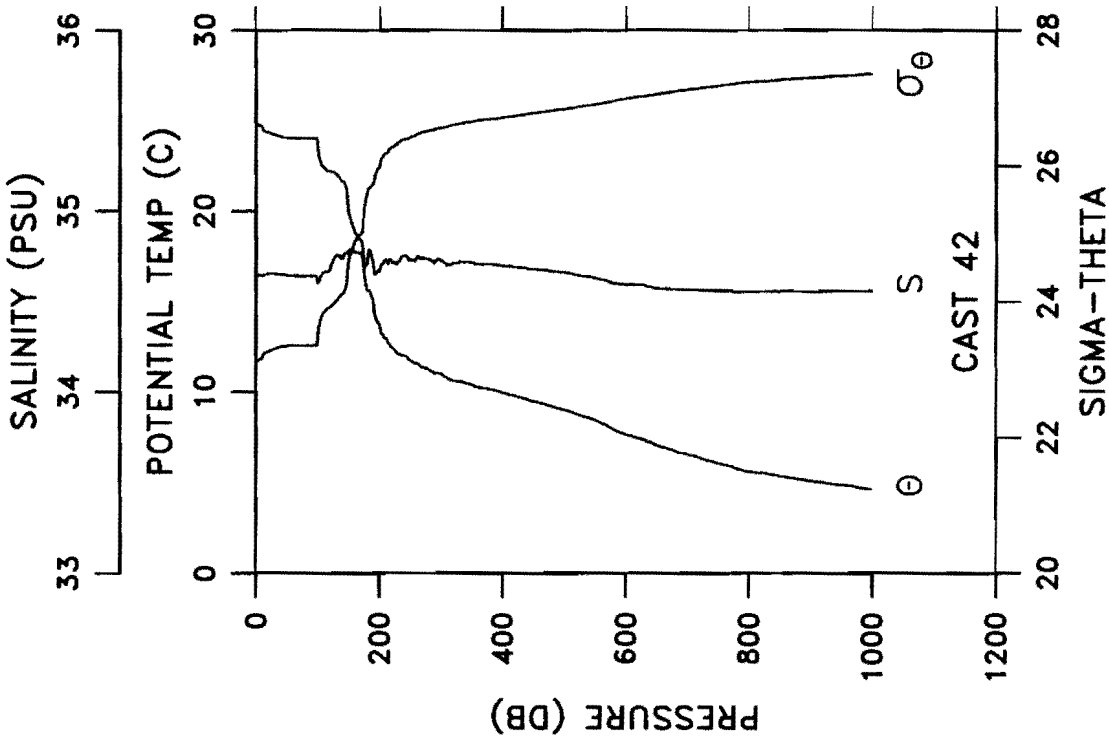
| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 27.031 | 34.490 | 22.326 | 0.000 |
| 10 | 27.031 | 34.490 | 22.326 | 0.055 |
| 20 | 27.033 | 34.490 | 22.325 | 0.110 |
| 30 | 27.026 | 34.490 | 22.328 | 0.165 |
| 40 | 27.044 | 34.646 | 22.439 | 0.220 |
| 50 | 27.049 | 34.674 | 22.458 | 0.274 |
| 60 | 27.041 | 34.677 | 22.463 | 0.328 |
| 70 | 27.034 | 34.676 | 22.465 | 0.382 |
| 80 | 26.694 | 34.732 | 22.615 | 0.436 |
| 90 | 24.956 | 34.765 | 23.179 | 0.485 |
| 100 | 22.924 | 34.806 | 23.810 | 0.530 |
| 110 | 20.658 | 34.888 | 24.350 | 0.568 |
| 120 | 19.059 | 34.632 | 24.726 | 0.602 |
| 130 | 15.805 | 34.633 | 25.510 | 0.632 |
| 140 | 14.490 | 34.592 | 25.768 | 0.655 |
| 150 | 13.000 | 34.630 | 26.107 | 0.676 |
| 160 | 12.485 | 34.680 | 26.248 | 0.695 |
| 170 | 12.222 | 34.709 | 26.321 | 0.713 |
| 180 | 11.897 | 34.719 | 26.391 | 0.730 |
| 190 | 11.466 | 34.689 | 26.448 | 0.746 |
| 200 | 11.204 | 34.683 | 26.492 | 0.762 |
| 250 | 10.368 | 34.688 | 26.646 | 0.837 |
| 300 | 10.123 | 34.708 | 26.703 | 0.908 |
| 350 | 9.816 | 34.691 | 26.742 | 0.977 |
| 400 | 9.462 | 34.679 | 26.792 | 1.044 |
| 450 | 9.028 | 34.664 | 26.851 | 1.110 |
| 500 | 8.586 | 34.644 | 26.905 | 1.173 |
| 550 | 7.922 | 34.615 | 26.983 | 1.233 |
| 600 | 7.436 | 34.599 | 27.042 | 1.290 |
| 650 | 6.940 | 34.584 | 27.099 | 1.344 |
| 700 | 6.477 | 34.571 | 27.152 | 1.396 |
| 750 | 5.964 | 34.564 | 27.213 | 1.445 |
| 800 | 5.677 | 34.561 | 27.246 | 1.492 |
| 900 | 5.082 | 34.559 | 27.316 | 1.581 |
| 1000 | 4.647 | 34.563 | 27.369 | 1.665 |
| 1001 | 4.640 | 34.563 | 27.369 | 1.665 |

CAST EP5-88-OC -042 DATE 01 DEC 88 TIME 0135 GMT

LAT 07 00.5N LONG 134 58.2W

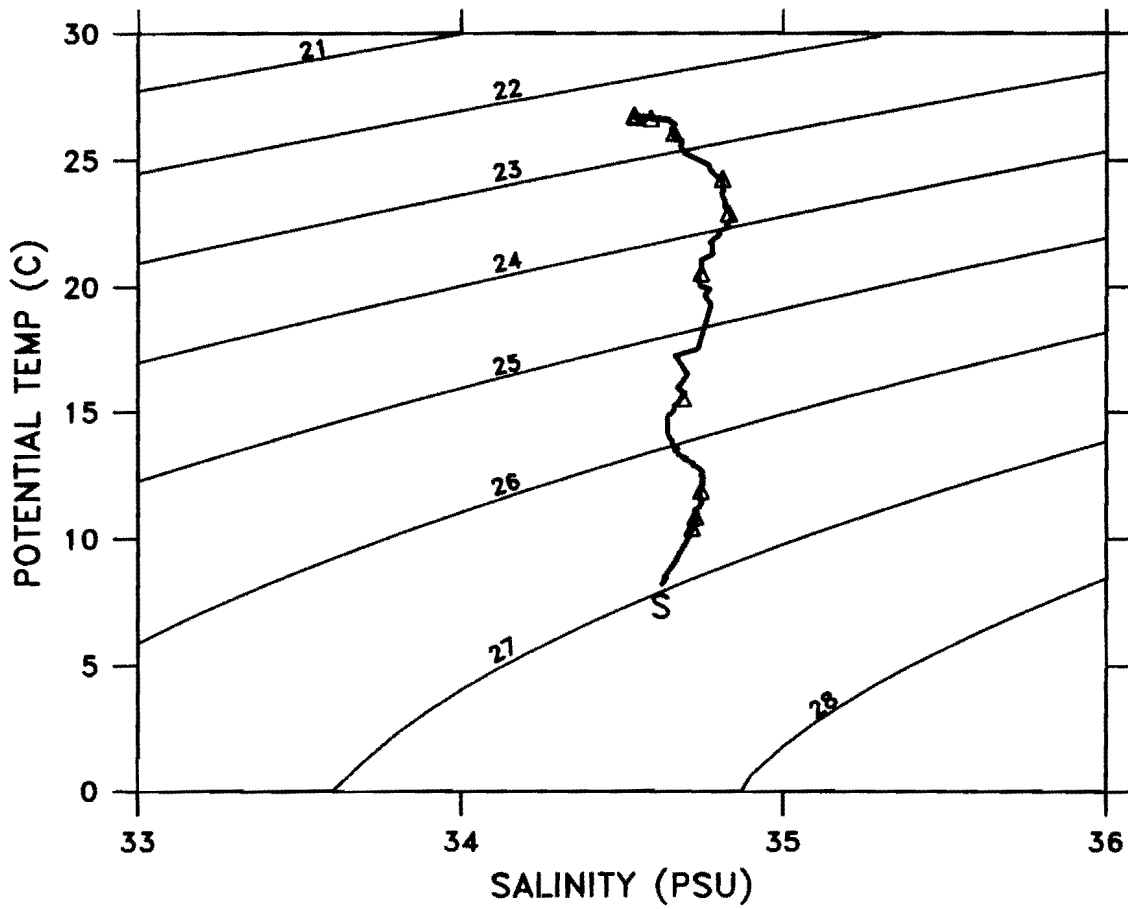


CAST EP5-88-OC -042 DATE 01 DEC 88 TIME 0135 GMT
 LAT 07 00.5N LONG 134 58.2W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 145 T SPD 11 KT VISIBILITY 8
 CLOUD 6 AMOUNT 7 DRY 25.0 WET 23.2 DEPTH 4659 M

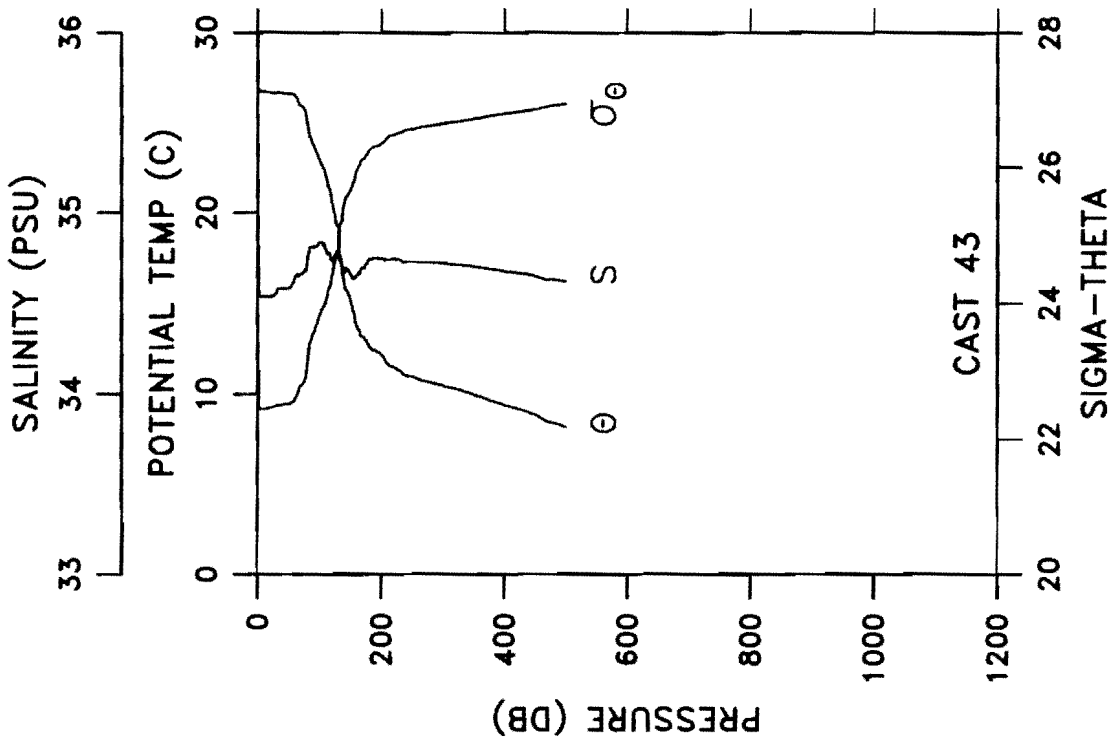


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.839 | 34.641 | 23.120 | 0.000 |
| 10 | 24.727 | 34.642 | 23.155 | 0.047 |
| 20 | 24.405 | 34.655 | 23.262 | 0.094 |
| 30 | 24.277 | 34.656 | 23.300 | 0.140 |
| 40 | 24.156 | 34.652 | 23.333 | 0.185 |
| 50 | 24.113 | 34.648 | 23.343 | 0.231 |
| 60 | 24.092 | 34.646 | 23.348 | 0.276 |
| 70 | 24.075 | 34.644 | 23.351 | 0.322 |
| 80 | 24.076 | 34.644 | 23.351 | 0.367 |
| 90 | 24.075 | 34.644 | 23.351 | 0.413 |
| 100 | 23.597 | 34.605 | 23.463 | 0.458 |
| 110 | 22.420 | 34.664 | 23.846 | 0.500 |
| 120 | 22.217 | 34.684 | 23.919 | 0.541 |
| 130 | 22.037 | 34.755 | 24.023 | 0.581 |
| 140 | 21.652 | 34.740 | 24.119 | 0.620 |
| 150 | 19.967 | 34.776 | 24.601 | 0.657 |
| 160 | 18.826 | 34.777 | 24.896 | 0.689 |
| 170 | 18.417 | 34.768 | 24.992 | 0.720 |
| 180 | 15.626 | 34.709 | 25.609 | 0.747 |
| 190 | 14.982 | 34.706 | 25.750 | 0.770 |
| 200 | 13.716 | 34.669 | 25.991 | 0.792 |
| 250 | 11.745 | 34.736 | 26.433 | 0.881 |
| 300 | 10.988 | 34.731 | 26.569 | 0.960 |
| 350 | 10.402 | 34.720 | 26.664 | 1.034 |
| 400 | 9.964 | 34.701 | 26.725 | 1.105 |
| 450 | 9.491 | 34.682 | 26.790 | 1.174 |
| 500 | 9.036 | 34.663 | 26.849 | 1.240 |
| 550 | 8.478 | 34.634 | 26.914 | 1.303 |
| 600 | 7.671 | 34.596 | 27.005 | 1.363 |
| 650 | 7.080 | 34.575 | 27.073 | 1.419 |
| 700 | 6.578 | 34.568 | 27.136 | 1.472 |
| 750 | 6.086 | 34.560 | 27.194 | 1.522 |
| 800 | 5.630 | 34.556 | 27.248 | 1.570 |
| 900 | 5.105 | 34.557 | 27.312 | 1.659 |
| 999 | 4.664 | 34.561 | 27.365 | 1.742 |

CAST EP5-88-OC -043 DATE 02 DEC 88 TIME 0017 GMT
LAT 07 01.7N LONG 132 30.5W

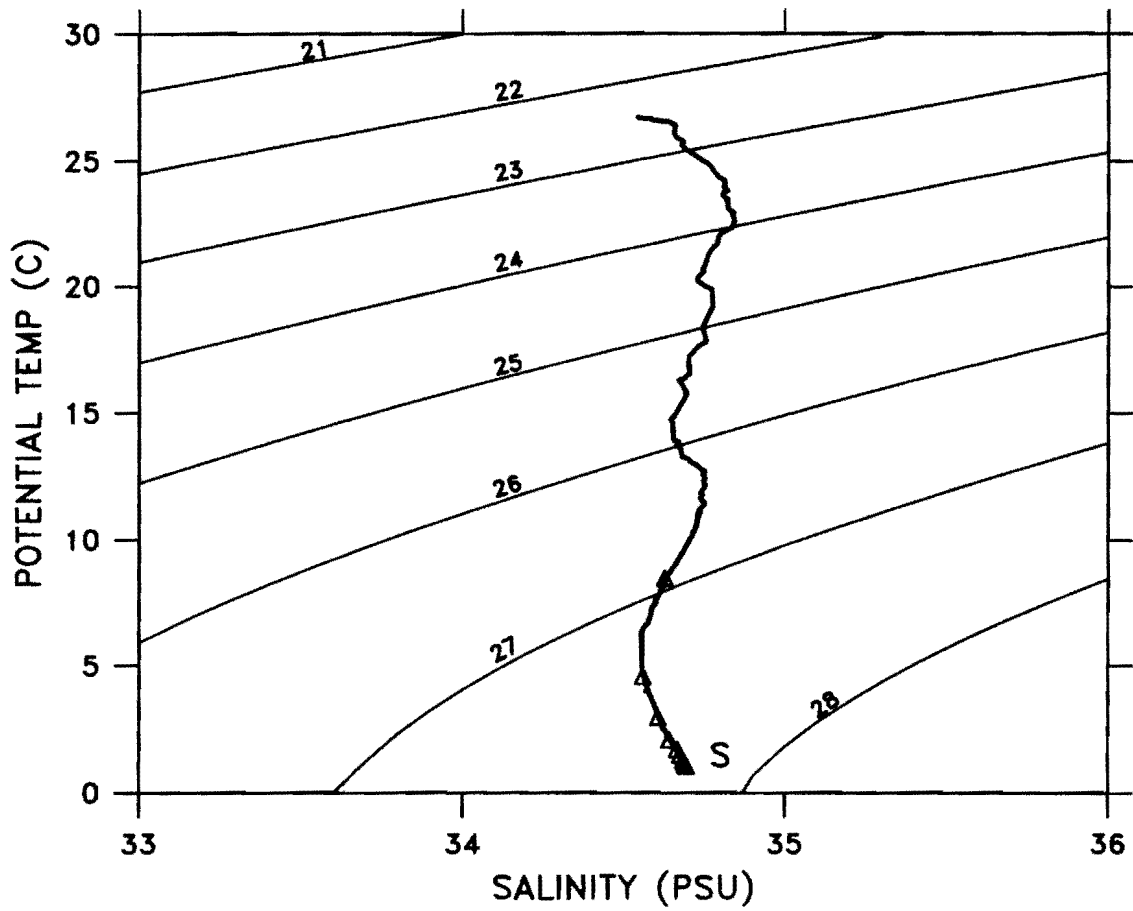


CAST EP5-88-OC -043 DATE 02 DEC 88 TIME 0017 GMT
 LAT 07 01.7N LONG 132 30.5W WEATHER 2 SEA STATE 4
 BAROMETER 10 WIND DIR 160 T SPD 16 KT VISIBILITY 7
 CLOUD 4 AMOUNT 8 DRY 26.0 WET 24.3 DEPTH 4679 M

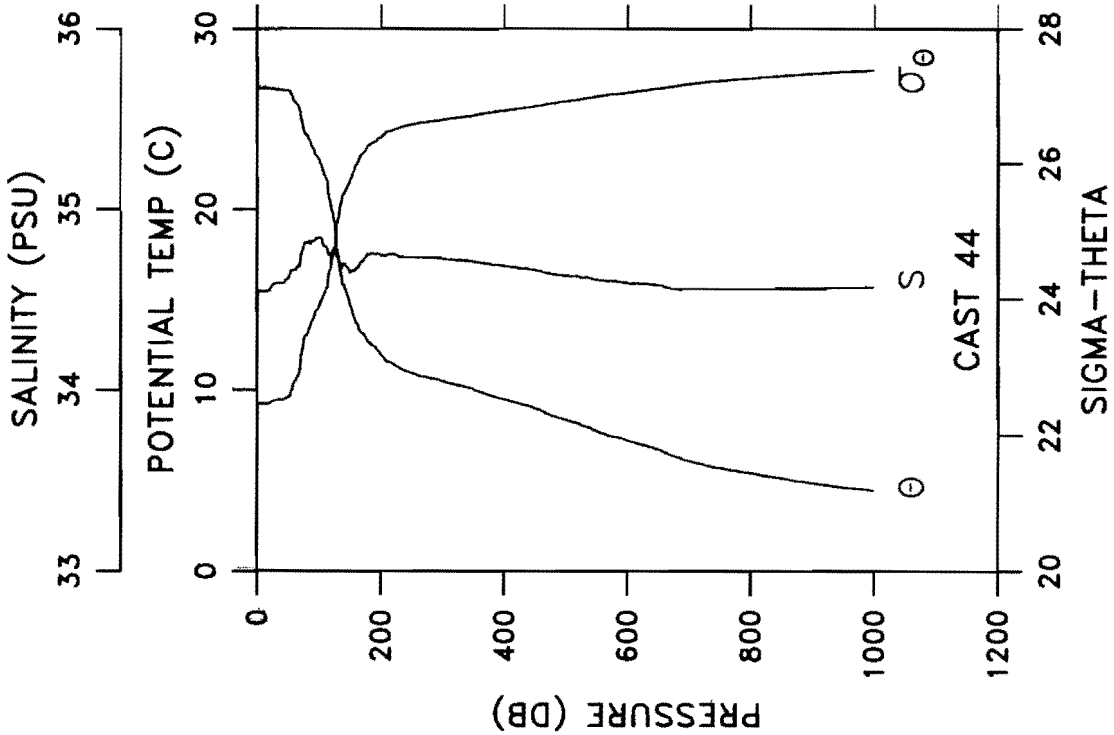


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.613 | 34.646 | 22.576 | 0.000 |
| 10 | 26.762 | 34.541 | 22.450 | 0.054 |
| 20 | 26.701 | 34.540 | 22.468 | 0.107 |
| 30 | 26.662 | 34.561 | 22.497 | 0.161 |
| 40 | 26.666 | 34.586 | 22.514 | 0.214 |
| 50 | 26.624 | 34.585 | 22.527 | 0.268 |
| 60 | 26.544 | 34.643 | 22.596 | 0.321 |
| 70 | 25.934 | 34.659 | 22.799 | 0.373 |
| 80 | 25.052 | 34.730 | 23.123 | 0.423 |
| 90 | 23.791 | 34.813 | 23.563 | 0.468 |
| 100 | 22.946 | 34.838 | 23.828 | 0.510 |
| 110 | 22.067 | 34.801 | 24.049 | 0.550 |
| 120 | 20.570 | 34.740 | 24.413 | 0.587 |
| 130 | 19.138 | 34.772 | 24.813 | 0.621 |
| 140 | 16.104 | 34.682 | 25.480 | 0.649 |
| 150 | 15.246 | 34.662 | 25.658 | 0.673 |
| 160 | 13.799 | 34.655 | 25.963 | 0.696 |
| 170 | 13.178 | 34.699 | 26.125 | 0.716 |
| 180 | 12.667 | 34.746 | 26.263 | 0.734 |
| 190 | 12.428 | 34.749 | 26.313 | 0.752 |
| 200 | 12.203 | 34.751 | 26.357 | 0.769 |
| 250 | 10.986 | 34.733 | 26.571 | 0.849 |
| 300 | 10.500 | 34.723 | 26.649 | 0.923 |
| 350 | 9.985 | 34.704 | 26.723 | 0.994 |
| 400 | 9.415 | 34.678 | 26.799 | 1.062 |
| 450 | 8.885 | 34.652 | 26.864 | 1.127 |
| 500 | 8.202 | 34.624 | 26.948 | 1.188 |
| 500 | 8.202 | 34.624 | 26.948 | 1.188 |

CAST EP5-88-0C -044 DATE 02 DEC 88 TIME 0253 GMT
LAT 06 59.9N LONG 132 29.7W

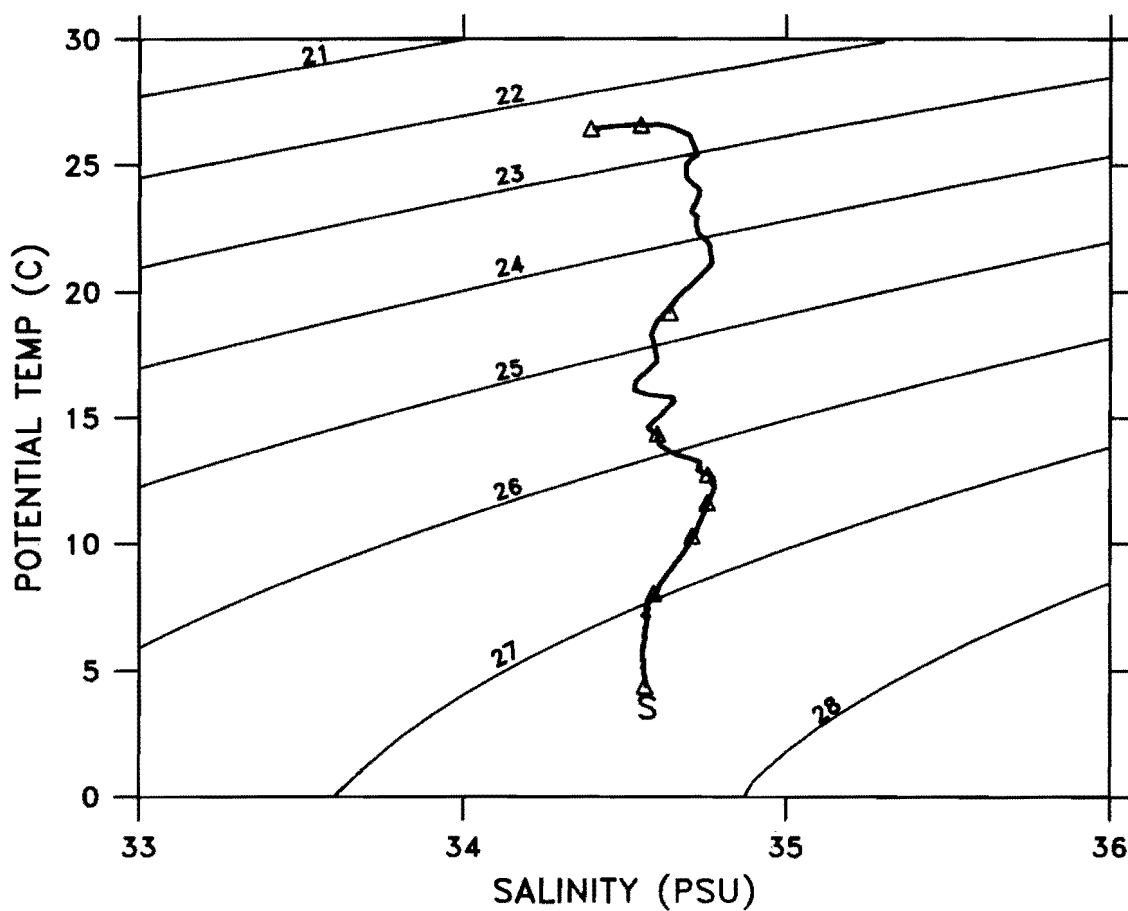


CAST EP5-88-OC -044 DATE 02 DEC 88 TIME 0253 GMT
 LAT 06 59.9N LONG 132 29.7W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 160 T SPD 16 KT VISIBILITY 8
 CLOUD 6 AMOUNT 7 DRY 25.8 WET 24.0 DEPTH 4536 M

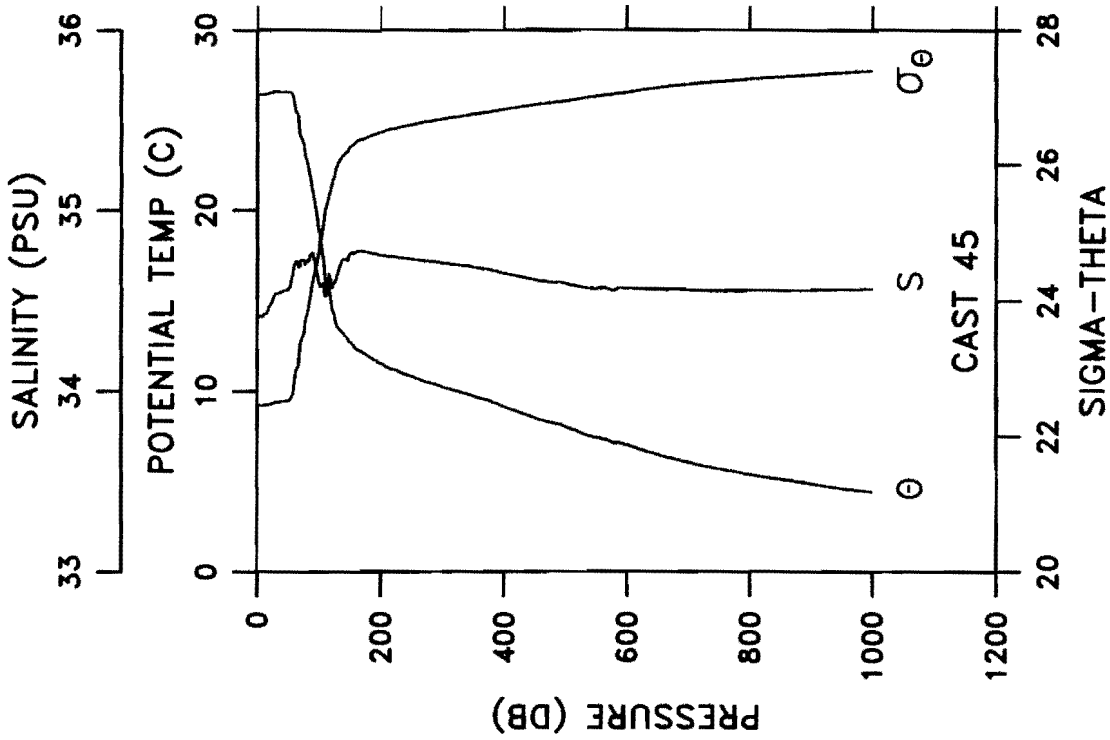


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.734 | 34.544 | 22.461 | 0.000 |
| 10 | 26.732 | 34.544 | 22.461 | 0.054 |
| 20 | 26.724 | 34.546 | 22.466 | 0.107 |
| 30 | 26.669 | 34.587 | 22.513 | 0.161 |
| 40 | 26.634 | 34.588 | 22.526 | 0.214 |
| 50 | 26.595 | 34.615 | 22.558 | 0.267 |
| 60 | 25.977 | 34.661 | 22.787 | 0.319 |
| 70 | 25.217 | 34.721 | 23.066 | 0.370 |
| 80 | 24.124 | 34.814 | 23.466 | 0.415 |
| 90 | 23.385 | 34.819 | 23.687 | 0.459 |
| 100 | 22.726 | 34.841 | 23.893 | 0.500 |
| 110 | 21.803 | 34.791 | 24.115 | 0.539 |
| 120 | 20.021 | 34.750 | 24.566 | 0.576 |
| 130 | 17.618 | 34.731 | 25.161 | 0.608 |
| 140 | 15.758 | 34.690 | 25.565 | 0.634 |
| 150 | 14.734 | 34.646 | 25.757 | 0.657 |
| 160 | 13.734 | 34.664 | 25.983 | 0.679 |
| 170 | 13.122 | 34.705 | 26.140 | 0.699 |
| 180 | 12.625 | 34.746 | 26.271 | 0.717 |
| 190 | 12.380 | 34.749 | 26.322 | 0.735 |
| 200 | 11.951 | 34.741 | 26.398 | 0.752 |
| 250 | 10.919 | 34.731 | 26.581 | 0.830 |
| 300 | 10.489 | 34.723 | 26.651 | 0.904 |
| 350 | 10.052 | 34.706 | 26.714 | 0.975 |
| 400 | 9.498 | 34.684 | 26.790 | 1.043 |
| 450 | 8.994 | 34.662 | 26.855 | 1.109 |
| 500 | 8.366 | 34.630 | 26.928 | 1.171 |
| 550 | 7.750 | 34.606 | 27.001 | 1.230 |
| 600 | 7.237 | 34.590 | 27.063 | 1.286 |
| 650 | 6.740 | 34.577 | 27.122 | 1.339 |
| 700 | 6.085 | 34.556 | 27.191 | 1.390 |
| 750 | 5.699 | 34.555 | 27.239 | 1.437 |
| 800 | 5.425 | 34.555 | 27.272 | 1.482 |
| 900 | 4.861 | 34.559 | 27.342 | 1.569 |
| 1000 | 4.437 | 34.566 | 27.394 | 1.649 |
| 1500 | 2.910 | 34.612 | 27.584 | 1.990 |
| 2000 | 2.070 | 34.644 | 27.681 | 2.266 |
| 2500 | 1.677 | 34.666 | 27.729 | 2.509 |
| 3000 | 1.499 | 34.675 | 27.749 | 2.743 |
| 3500 | 1.248 | 34.686 | 27.776 | 2.968 |
| 4000 | 1.072 | 34.693 | 27.794 | 3.185 |
| 4299 | 1.043 | 34.695 | 27.798 | 3.314 |

CAST EP5-88-OC -045 DATE 02 DEC 88 TIME 1252 GMT
LAT 07 59.7N LONG 132 10.2W

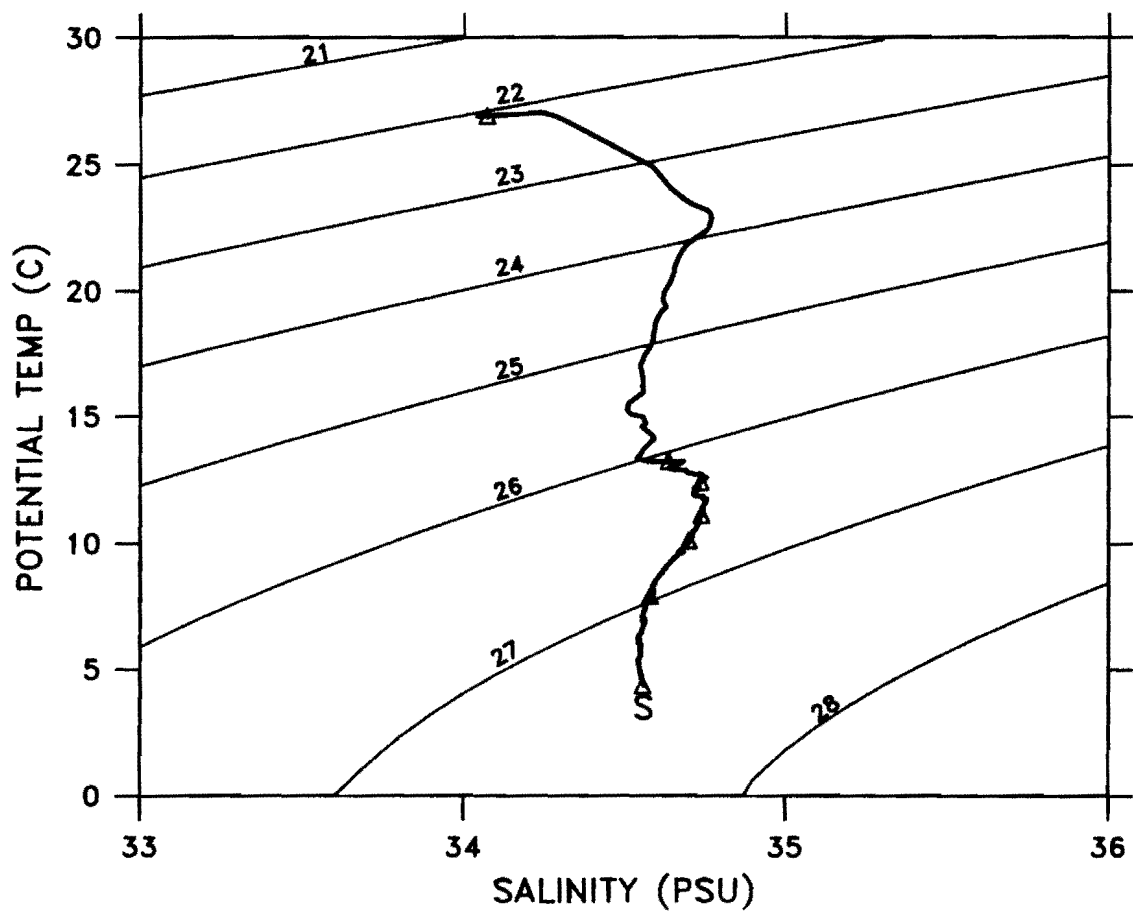


CAST EP5-88-0C -045 DATE 02 DEC 88 TIME 1252 GMT
 LAT 07 59.7N LONG 132 10.2W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 190 T SPD 06 KT VISIBILITY 7
 CLOUD 5 AMOUNT 7 DRY 25.9 WET 24.0 DEPTH 4813 M

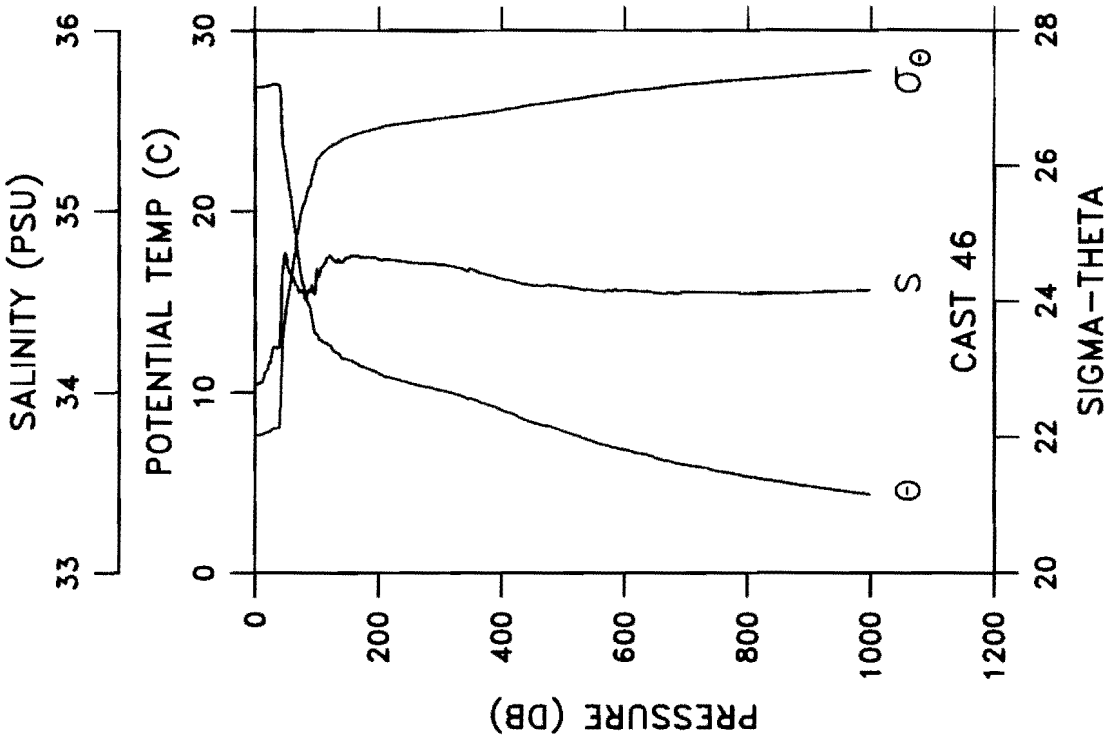


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.431 | 34.405 | 22.452 | 0.000 |
| 10 | 26.446 | 34.424 | 22.461 | 0.054 |
| 20 | 26.520 | 34.476 | 22.477 | 0.107 |
| 30 | 26.591 | 34.540 | 22.503 | 0.161 |
| 40 | 26.567 | 34.553 | 22.520 | 0.214 |
| 50 | 26.568 | 34.565 | 22.529 | 0.268 |
| 60 | 25.971 | 34.704 | 22.821 | 0.320 |
| 70 | 24.104 | 34.725 | 23.404 | 0.368 |
| 80 | 22.770 | 34.721 | 23.790 | 0.412 |
| 90 | 21.065 | 34.765 | 24.299 | 0.451 |
| 100 | 18.919 | 34.802 | 24.739 | 0.485 |
| 110 | 16.140 | 34.530 | 25.355 | 0.515 |
| 120 | 14.783 | 34.583 | 25.698 | 0.540 |
| 130 | 13.535 | 34.659 | 26.021 | 0.561 |
| 140 | 13.160 | 34.730 | 26.153 | 0.581 |
| 150 | 12.728 | 34.764 | 26.265 | 0.599 |
| 160 | 12.348 | 34.774 | 26.347 | 0.617 |
| 170 | 12.178 | 34.777 | 26.383 | 0.634 |
| 180 | 11.961 | 34.770 | 26.419 | 0.650 |
| 190 | 11.755 | 34.763 | 26.452 | 0.667 |
| 200 | 11.547 | 34.755 | 26.485 | 0.683 |
| 250 | 10.852 | 34.732 | 26.594 | 0.759 |
| 300 | 10.250 | 34.708 | 26.683 | 0.832 |
| 350 | 9.758 | 34.687 | 26.749 | 0.902 |
| 400 | 9.160 | 34.655 | 26.823 | 0.968 |
| 450 | 8.542 | 34.618 | 26.892 | 1.032 |
| 500 | 8.044 | 34.597 | 26.951 | 1.093 |
| 550 | 7.423 | 34.566 | 27.018 | 1.150 |
| 600 | 7.019 | 34.568 | 27.076 | 1.206 |
| 650 | 6.489 | 34.562 | 27.143 | 1.258 |
| 700 | 6.055 | 34.560 | 27.198 | 1.307 |
| 750 | 5.688 | 34.555 | 27.241 | 1.354 |
| 800 | 5.379 | 34.559 | 27.281 | 1.399 |
| 868 | 4.868 | 34.560 | 27.341 | 1.485 |
| 900 | 4.406 | 34.567 | 27.399 | 1.565 |
| 1000 | 4.406 | 34.567 | 27.399 | 1.565 |

CAST EP5-88-OC -046 DATE 02 DEC 88 TIME 1913 GMT
LAT 09 00.1N LONG 132 07.9W

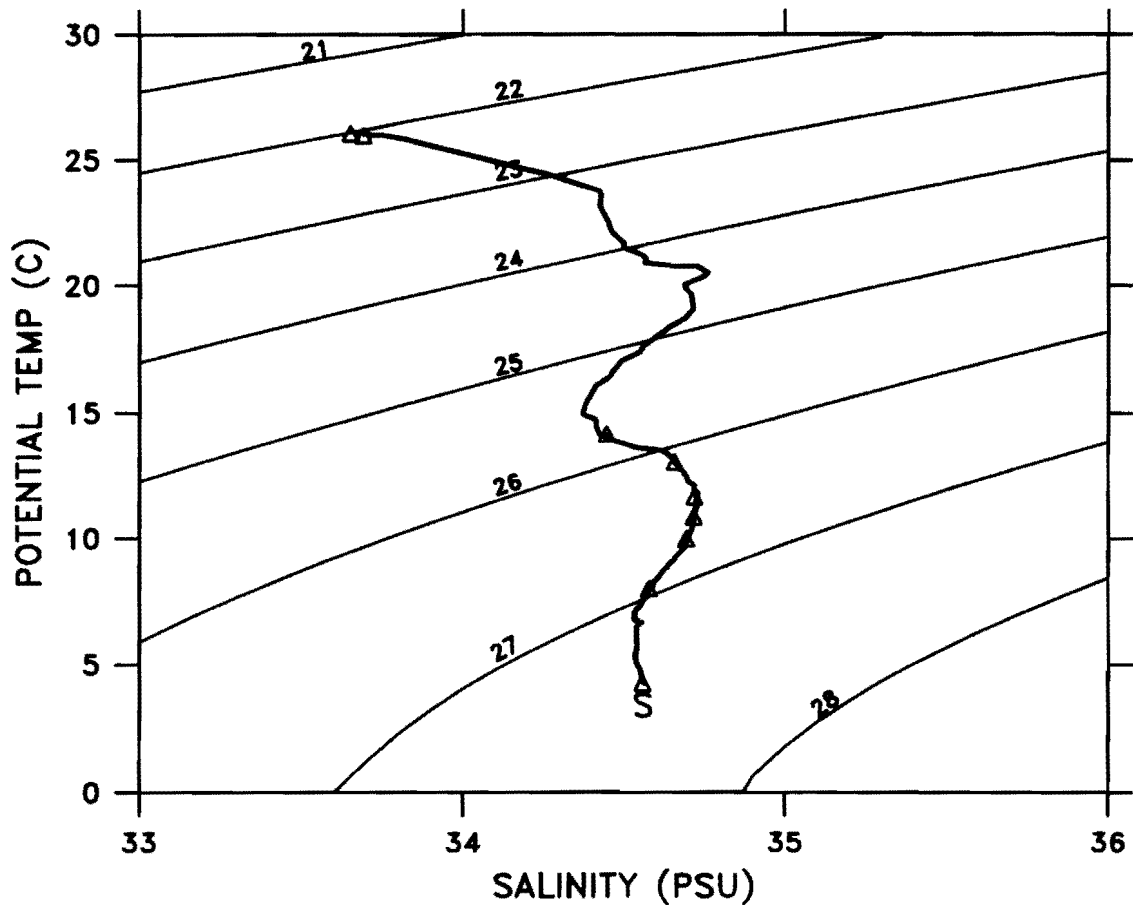


CAST EP5-88-OC -046 DATE 02 DEC 88 TIME 1913 GMT
 LAT 09 00.1N LONG 132 07.9W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 120 T SPD 24 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 26.1 WET 24.9 DEPTH 4907 M

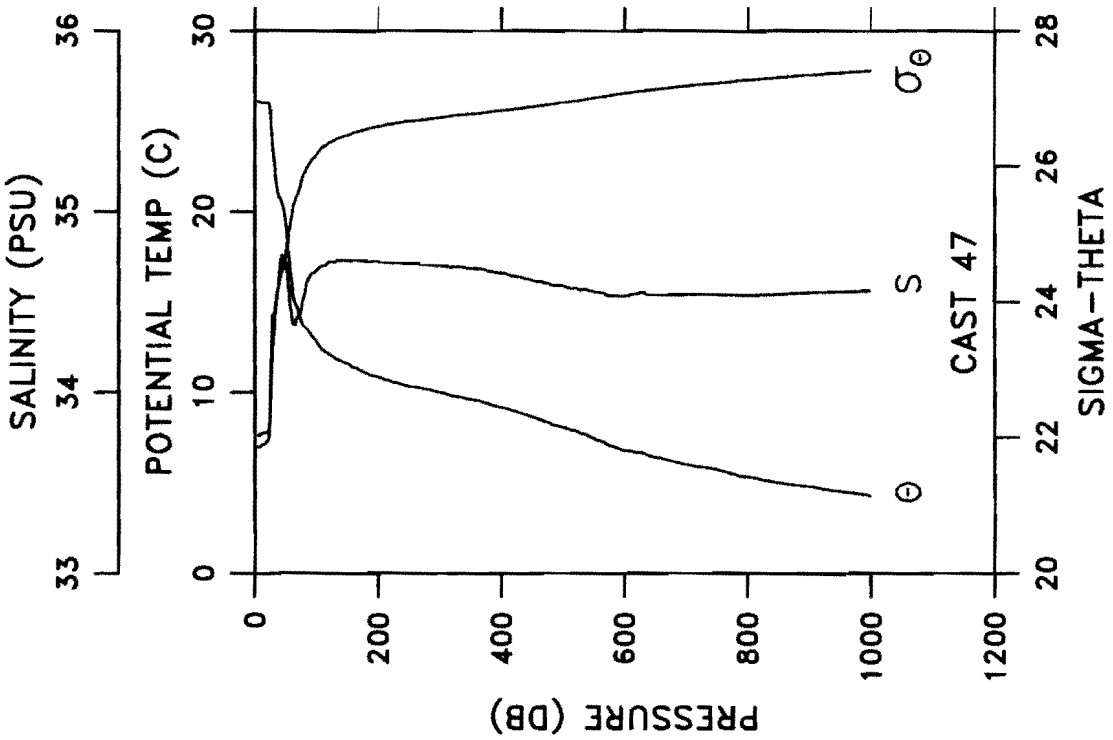


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.884 | 34.041 | 22.035 | 0.000 |
| 10 | 26.878 | 34.050 | 22.043 | 0.058 |
| 20 | 26.938 | 34.126 | 22.082 | 0.115 |
| 30 | 27.048 | 34.249 | 22.139 | 0.172 |
| 40 | 26.863 | 34.290 | 22.228 | 0.229 |
| 50 | 22.531 | 34.761 | 23.888 | 0.275 |
| 60 | 20.122 | 34.631 | 24.449 | 0.313 |
| 70 | 17.450 | 34.564 | 25.073 | 0.345 |
| 80 | 15.675 | 34.530 | 25.460 | 0.372 |
| 90 | 14.589 | 34.553 | 25.718 | 0.396 |
| 100 | 13.231 | 34.683 | 26.101 | 0.417 |
| 110 | 12.780 | 34.694 | 26.201 | 0.436 |
| 120 | 12.593 | 34.754 | 26.284 | 0.454 |
| 130 | 12.234 | 34.721 | 26.328 | 0.471 |
| 140 | 11.900 | 34.714 | 26.386 | 0.488 |
| 150 | 11.806 | 34.743 | 26.427 | 0.504 |
| 160 | 11.665 | 34.753 | 26.461 | 0.521 |
| 170 | 11.468 | 34.745 | 26.491 | 0.536 |
| 180 | 11.330 | 34.744 | 26.516 | 0.552 |
| 190 | 11.219 | 34.743 | 26.536 | 0.568 |
| 200 | 11.077 | 34.737 | 26.557 | 0.583 |
| 250 | 10.521 | 34.715 | 26.640 | 0.657 |
| 300 | 10.131 | 34.703 | 26.698 | 0.728 |
| 350 | 9.663 | 34.680 | 26.759 | 0.797 |
| 400 | 9.022 | 34.626 | 26.822 | 0.863 |
| 450 | 8.354 | 34.590 | 26.889 | 0.927 |
| 500 | 7.865 | 34.583 | 26.966 | 0.987 |
| 550 | 7.266 | 34.560 | 27.035 | 1.044 |
| 600 | 6.831 | 34.564 | 27.099 | 1.098 |
| 650 | 6.366 | 34.546 | 27.147 | 1.150 |
| 700 | 5.976 | 34.552 | 27.202 | 1.199 |
| 750 | 5.627 | 34.549 | 27.244 | 1.246 |
| 800 | 5.320 | 34.542 | 27.275 | 1.291 |
| 900 | 4.801 | 34.551 | 27.342 | 1.377 |
| 1000 | 4.347 | 34.562 | 27.401 | 1.457 |
| 1000 | 4.347 | 34.562 | 27.401 | 1.457 |

CAST EP5-88-OC -047 DATE 03 DEC 88 TIME 0116 GMT
LAT 09 59.6N LONG 132 02.2W

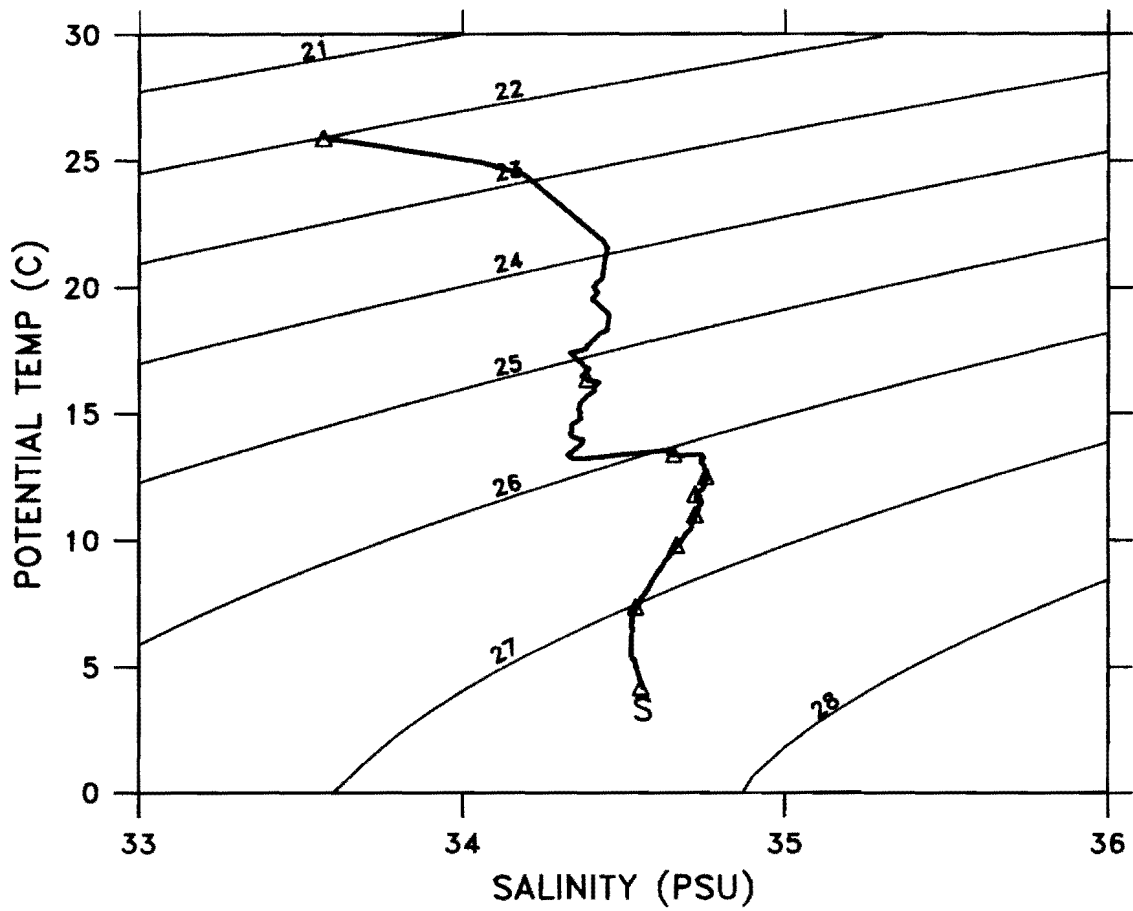


CAST EP5-88-OC -047 DATE 03 DEC 88 TIME 0116 GMT
 LAT 09 59.6N LONG 132 02.2W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 075 T SPD 10 KT VISIBILITY 8
 CLOUD 7 AMOUNT 2 DRY 25.8 WET 24.0 DEPTH 5029 M

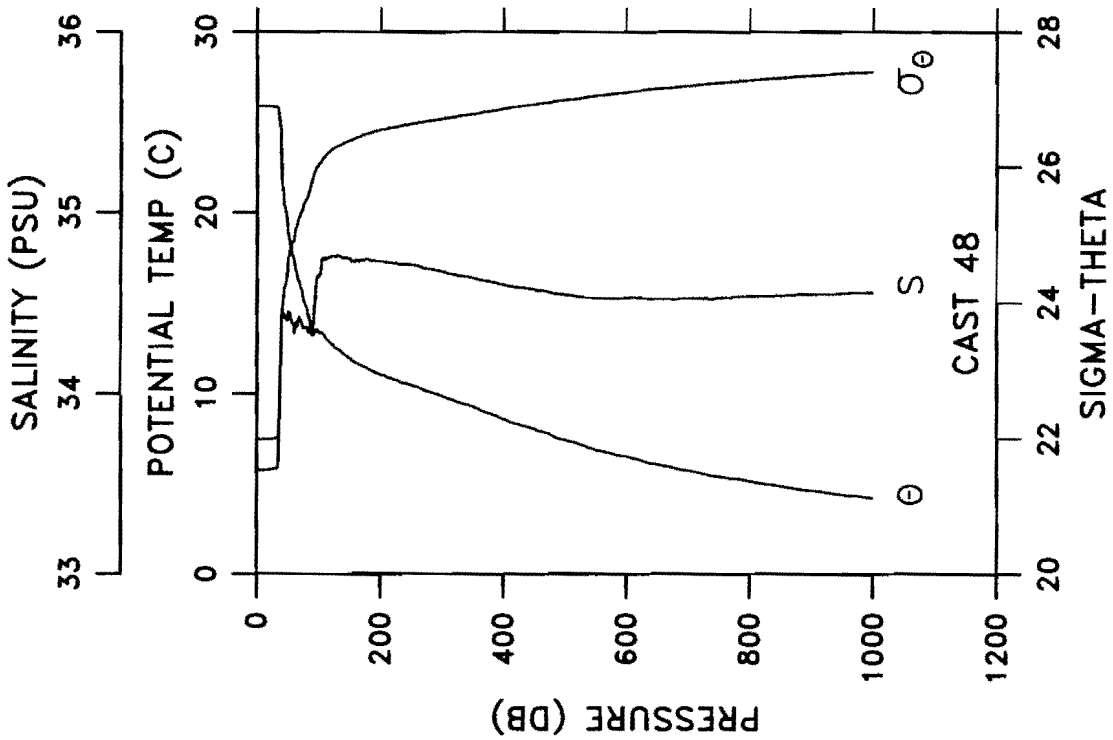


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 26.092 | 33.696 | 22.024 | 0.000 |
| 10 | 25.998 | 33.707 | 22.061 | 0.058 |
| 20 | 25.992 | 33.728 | 22.079 | 0.115 |
| 30 | 23.165 | 34.425 | 23.452 | 0.168 |
| 40 | 20.753 | 34.664 | 24.306 | 0.208 |
| 50 | 19.364 | 34.712 | 24.709 | 0.242 |
| 60 | 16.058 | 34.411 | 25.282 | 0.272 |
| 70 | 14.561 | 34.414 | 25.616 | 0.297 |
| 80 | 13.626 | 34.538 | 25.908 | 0.319 |
| 90 | 13.265 | 34.645 | 26.065 | 0.339 |
| 100 | 12.832 | 34.670 | 26.171 | 0.358 |
| 110 | 12.353 | 34.697 | 26.286 | 0.376 |
| 120 | 12.122 | 34.720 | 26.348 | 0.394 |
| 130 | 11.882 | 34.719 | 26.394 | 0.411 |
| 140 | 11.716 | 34.727 | 26.432 | 0.427 |
| 150 | 11.596 | 34.728 | 26.454 | 0.443 |
| 160 | 11.381 | 34.729 | 26.496 | 0.459 |
| 170 | 11.236 | 34.727 | 26.520 | 0.475 |
| 180 | 11.077 | 34.722 | 26.546 | 0.490 |
| 190 | 10.940 | 34.722 | 26.571 | 0.505 |
| 200 | 10.849 | 34.721 | 26.586 | 0.520 |
| 250 | 10.347 | 34.711 | 26.667 | 0.593 |
| 300 | 10.005 | 34.698 | 26.716 | 0.663 |
| 350 | 9.610 | 34.684 | 26.771 | 0.731 |
| 400 | 9.188 | 34.659 | 26.821 | 0.797 |
| 450 | 8.656 | 34.618 | 26.874 | 0.862 |
| 500 | 8.075 | 34.587 | 26.939 | 0.923 |
| 550 | 7.459 | 34.556 | 27.005 | 0.982 |
| 600 | 6.795 | 34.532 | 27.078 | 1.037 |
| 650 | 6.403 | 34.538 | 27.136 | 1.089 |
| 700 | 6.017 | 34.540 | 27.188 | 1.139 |
| 750 | 5.734 | 34.541 | 27.224 | 1.187 |
| 800 | 5.310 | 34.535 | 27.270 | 1.232 |
| 900 | 4.788 | 34.550 | 27.343 | 1.318 |
| 1000 | 4.269 | 34.562 | 27.410 | 1.398 |
| 1001 | 4.264 | 34.563 | 27.411 | 1.399 |

CAST EP5-88-OC -048 DATE 03 DEC 88 TIME 0711 GMT
LAT 11 00.3N LONG 131 51.4W

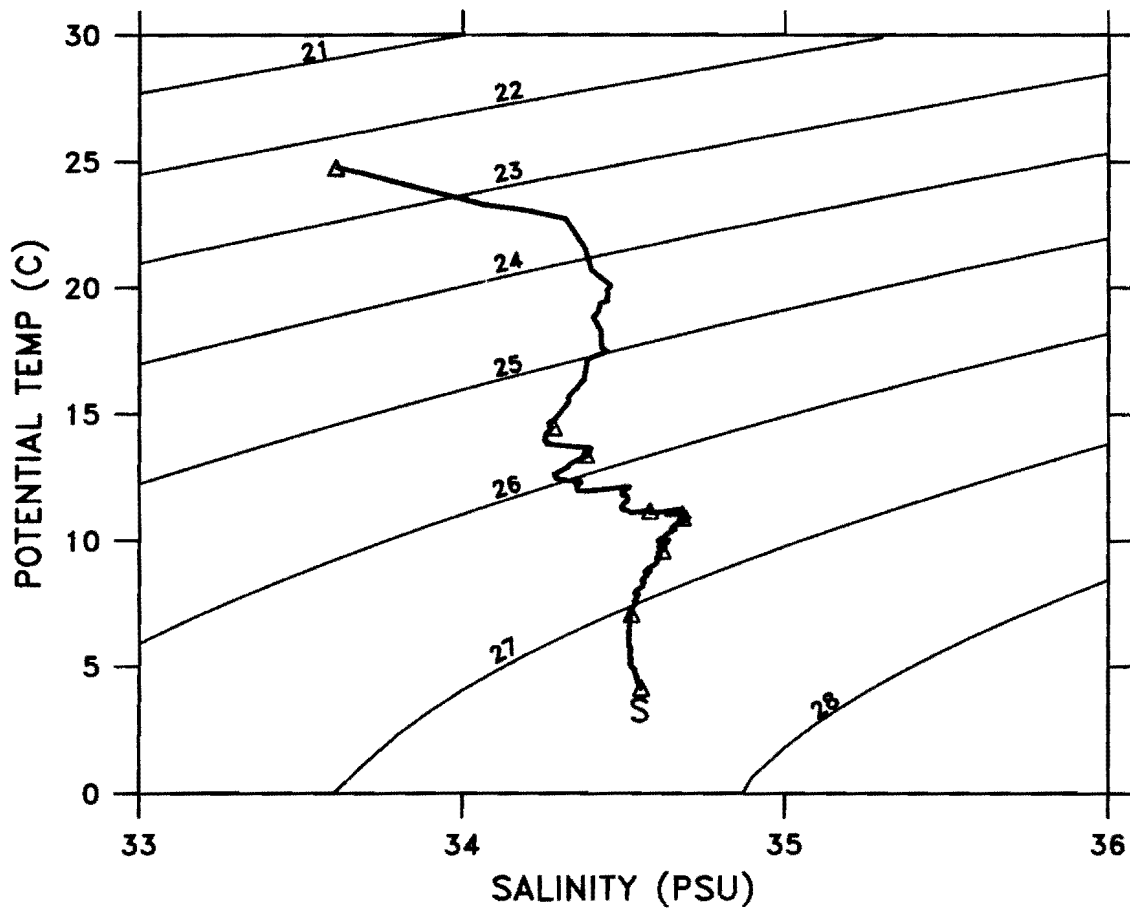


CAST EP5-88-OC -048 DATE 03 DEC 88 TIME 0711 GMT
 LAT 11 00.3N LONG 131 51.4W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 095 T SPD 20 KT VISIBILITY 8
 CLOUD 7 AMOUNT 2 DRY 25.1 WET 23.0 DEPTH 5029 M

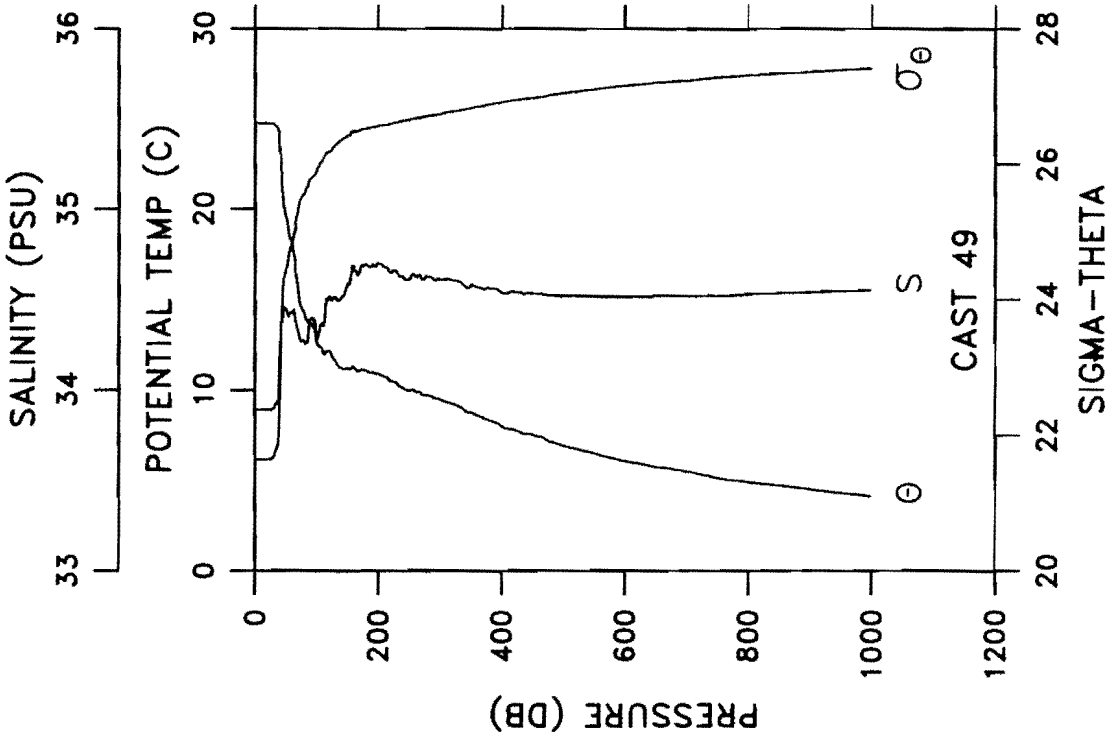


| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 25.913 | 33.578 | 21.990 | 0.000 |
| 10 | 25.903 | 33.577 | 21.992 | 0.058 |
| 20 | 25.904 | 33.579 | 21.993 | 0.116 |
| 30 | 25.876 | 33.584 | 22.006 | 0.175 |
| 40 | 21.837 | 34.436 | 23.836 | 0.229 |
| 50 | 18.934 | 34.452 | 24.620 | 0.266 |
| 60 | 17.391 | 34.333 | 24.910 | 0.297 |
| 70 | 15.893 | 34.409 | 25.318 | 0.326 |
| 80 | 14.785 | 34.367 | 25.531 | 0.351 |
| 90 | 13.181 | 34.343 | 25.848 | 0.375 |
| 100 | 13.338 | 34.642 | 26.048 | 0.395 |
| 110 | 13.132 | 34.740 | 26.165 | 0.414 |
| 120 | 12.749 | 34.756 | 26.255 | 0.433 |
| 130 | 12.462 | 34.760 | 26.314 | 0.450 |
| 140 | 12.173 | 34.747 | 26.360 | 0.467 |
| 150 | 11.945 | 34.743 | 26.400 | 0.484 |
| 160 | 11.710 | 34.737 | 26.440 | 0.501 |
| 170 | 11.528 | 34.735 | 26.473 | 0.517 |
| 180 | 11.377 | 34.739 | 26.504 | 0.532 |
| 190 | 11.197 | 34.733 | 26.532 | 0.548 |
| 200 | 11.049 | 34.727 | 26.555 | 0.563 |
| 250 | 10.477 | 34.710 | 26.643 | 0.637 |
| 300 | 9.868 | 34.673 | 26.719 | 0.708 |
| 350 | 9.305 | 34.638 | 26.785 | 0.776 |
| 400 | 8.597 | 34.599 | 26.868 | 0.840 |
| 450 | 8.059 | 34.574 | 26.931 | 0.901 |
| 500 | 7.435 | 34.544 | 26.999 | 0.959 |
| 550 | 6.888 | 34.526 | 27.061 | 1.015 |
| 600 | 6.531 | 34.526 | 27.109 | 1.068 |
| 650 | 6.087 | 34.525 | 27.166 | 1.118 |
| 700 | 5.754 | 34.524 | 27.208 | 1.167 |
| 750 | 5.404 | 34.527 | 27.253 | 1.213 |
| 800 | 5.156 | 34.536 | 27.290 | 1.257 |
| 900 | 4.642 | 34.547 | 27.357 | 1.341 |
| 1000 | 4.214 | 34.558 | 27.412 | 1.420 |
| 1009 | 4.171 | 34.558 | 27.417 | 1.427 |

CAST EP5-88-OC -049 DATE 03 DEC 88 TIME 1301 GMT
LAT 12 00.0N LONG 131 39.9W



CAST EP5-88-OC -049 DATE 03 DEC 88 TIME 1301 GMT
 LAT 12 00.0N LONG 131 39.9W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 095 T SPD 14 KT VISIBILITY 8
 CLOUD 0 AMOUNT 1 DRY 24.5 WET 23.6 DEPTH 4918 M



| PRES (DB) | POT TEMP (C) | SAL (PSU) | SIG-TH | DELTA-D (DYN-M) |
|-----------|--------------|-----------|--------|-----------------|
| 0 | 24.754 | 33.615 | 22.371 | 0.000 |
| 10 | 24.747 | 33.615 | 22.373 | 0.055 |
| 20 | 24.745 | 33.615 | 22.373 | 0.109 |
| 30 | 24.719 | 33.629 | 22.392 | 0.164 |
| 40 | 23.279 | 34.068 | 23.148 | 0.217 |
| 50 | 19.571 | 34.447 | 24.453 | 0.257 |
| 60 | 18.093 | 34.428 | 24.812 | 0.290 |
| 70 | 15.447 | 34.328 | 25.356 | 0.319 |
| 80 | 14.231 | 34.259 | 25.567 | 0.344 |
| 90 | 13.694 | 34.395 | 25.784 | 0.367 |
| 100 | 12.638 | 34.284 | 25.911 | 0.389 |
| 110 | 12.112 | 34.356 | 26.068 | 0.409 |
| 120 | 12.174 | 34.519 | 26.183 | 0.428 |
| 130 | 11.618 | 34.512 | 26.282 | 0.446 |
| 140 | 11.197 | 34.515 | 26.362 | 0.463 |
| 150 | 11.177 | 34.588 | 26.423 | 0.480 |
| 160 | 11.295 | 34.683 | 26.475 | 0.496 |
| 170 | 11.057 | 34.652 | 26.495 | 0.512 |
| 180 | 11.088 | 34.693 | 26.521 | 0.527 |
| 190 | 10.980 | 34.693 | 26.540 | 0.543 |
| 200 | 10.906 | 34.696 | 26.557 | 0.558 |
| 250 | 9.981 | 34.613 | 26.653 | 0.632 |
| 300 | 9.485 | 34.611 | 26.735 | 0.702 |
| 350 | 8.782 | 34.584 | 26.827 | 0.768 |
| 400 | 8.005 | 34.538 | 26.911 | 0.830 |
| 450 | 7.566 | 34.536 | 26.974 | 0.889 |
| 500 | 6.937 | 34.521 | 27.050 | 0.945 |
| 550 | 6.525 | 34.518 | 27.104 | 0.998 |
| 600 | 6.073 | 34.515 | 27.161 | 1.048 |
| 650 | 5.746 | 34.521 | 27.206 | 1.096 |
| 700 | 5.504 | 34.521 | 27.236 | 1.143 |
| 750 | 5.140 | 34.521 | 27.279 | 1.188 |
| 800 | 4.916 | 34.529 | 27.312 | 1.231 |
| 900 | 4.519 | 34.540 | 27.365 | 1.313 |
| 1000 | 4.131 | 34.553 | 27.417 | 1.391 |
| 1001 | 4.127 | 34.553 | 27.417 | 1.392 |

CAST EP5-88-OC -001 LAT 05 00.05 LONG 140 00.3W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 0. 25.769 25.769 23.454 35.459 23.454
 17. 25.774 25.770 23.454 35.460 23.454
 37. 25.698 25.690 23.483 35.465 23.483
 57. 25.536 25.523 23.512 35.436 23.512
 77. 24.538 24.522 23.700 35.281 23.700
 97. 23.438 23.418 23.953 35.183 23.953
 121. 21.842 21.818 25.013 35.977 25.013
 147. 16.603 16.579 25.806 35.249 25.806
 198. 12.616 12.589 26.414 34.921 26.414
 296. 10.596 10.560 26.687 34.785 26.687
 496. 8.289 8.237 26.960 34.646 26.960
 997. 4.436 4.357 27.390 34.549 27.390

CAST EP5-88-OC -002 LAT 03 59.05 LONG 140 00.7W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 1. 25.645 25.645 23.526 35.504 23.526
 18. 25.651 25.647 23.525 35.503 23.525
 36. 25.627 25.619 23.529 35.497 23.529
 57. 24.379 24.367 23.708 35.230 23.708
 75. 23.360 23.344 23.956 35.159 23.956
 97. 21.883 21.864 25.004 35.982 25.004
 122. 15.498 15.479 26.016 35.194 26.016
 145. 13.145 13.125 26.334 34.956 26.334
 195. 12.317 12.291 26.450 34.892 26.450
 297. 11.242 11.205 26.603 34.826 26.603
 492. 8.147 8.096 26.975 34.638 26.975
 1006. 4.369 4.290 27.402 34.556 27.402

CAST EP5-88-OC -004 LAT 01 59.25 LONG 139 59.2W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 58. 24.110 24.098 24.114 35.660 24.114
 496. 8.269 8.217 26.965 34.648 26.965
 993. 4.292 4.215 27.412 34.558 27.412
 1492. 2.988 2.881 27.580 34.604 27.580
 1993. 2.280 2.140 27.677 34.646 27.677
 2495. 1.882 1.704 27.725 34.664 27.725
 2992. 1.646 1.427 27.756 34.677 27.756
 3242. 1.562 1.320 27.768 34.682 27.768
 3492. 1.464 1.200 27.783 34.690 27.783
 3742. 1.411 1.122 27.790 34.693 27.790
 4103. 1.410 1.082 27.795 34.695 27.795

CAST EP5-88-OC -005 LAT 01 58.45 LONG 139 57.1W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 1. 24.406 24.406 23.950 35.565 23.950
 8. 24.399 24.397 23.950 35.562 23.950
 17. 24.410 24.406 23.949 35.564 23.949
 37. 24.418 24.410 23.952 35.570 23.952
 57. 23.752 23.740 24.225 35.667 24.225
 77. 19.897 19.883 25.305 35.670 25.305
 99. 17.655 17.638 25.637 35.359 25.637
 123. 15.998 15.979 25.924 35.222 25.924
 148. 13.792 13.771 26.242 35.008 26.242
 198. 12.701 12.674 26.382 34.902 26.382
 248. 12.353 12.320 26.438 34.884 26.438
 295. 11.938 11.899 26.503 34.864 26.503

CAST EP5-88-OC -006 LAT 01 29.85 LONG 139 59.4W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 1. 22.769 22.769 24.257 35.336 24.257
 17. 22.772 22.769 24.257 35.337 24.257
 38. 22.754 22.746 24.265 35.338 24.265
 57. 22.625 22.614 24.298 35.332 24.298
 77. 22.365 22.350 24.737 35.811 24.737
 97. 18.071 18.054 25.548 35.376 25.548
 122. 14.984 14.966 26.055 35.097 26.055
 146. 13.428 13.407 26.273 34.951 26.273
 197. 12.747 12.720 26.376 34.906 26.376
 294. 11.663 11.625 26.544 34.850 26.544
 495. 8.100 8.049 26.981 34.636 26.981
 1003. 4.454 4.375 27.391 34.553 27.391

CAST EP5-88-OC -003 LAT 02 59.85 LONG 139 59.9W
 PRE (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 PRES (DB) TEMP (C) POT TEMP SIG-TH SAL (PSU) SIG-TH
 1. 24.783 24.783 23.766 35.472 23.766
 17. 24.757 24.753 23.775 35.472 23.775
 38. 24.761 24.753 23.775 35.472 23.775
 57. 24.395 24.383 23.826 35.393 23.826
 77. 22.354 22.339 24.829 35.928 24.829
 97. 17.844 17.827 25.639 35.422 25.639
 121. 13.822 13.805 26.226 34.997 26.226
 147. 13.349 13.328 26.285 34.946 26.285
 197. 12.751 12.724 26.377 34.908 26.377
 297. 12.037 11.998 26.493 34.875 26.493
 496. 8.134 8.083 26.981 34.643 26.981
 1000. 4.511 4.431 27.390 34.559 27.390

CAST EP5-88-OC -007 LAT 00 59.25 LONG 139 85.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 21.545 | 35.018 | 21.545 | 24.360 |
| 18. | 21.533 | 35.036 | 21.530 | 24.378 |
| 38. | 21.531 | 35.088 | 21.524 | 24.419 |
| 57. | 21.599 | 35.181 | 21.588 | 24.472 |
| 77. | 21.628 | 35.226 | 21.613 | 24.499 |
| 98. | 21.110 | 35.481 | 21.091 | 24.837 |
| 122. | 16.302 | 35.281 | 16.282 | 25.900 |
| 147. | 14.215 | 35.079 | 14.194 | 26.208 |
| 197. | 13.212 | 34.986 | 13.185 | 26.345 |
| 296. | 11.544 | 34.837 | 11.506 | 26.556 |
| 495. | 8.206 | 34.633 | 8.154 | 26.963 |
| 993. | 4.562 | 34.554 | 4.483 | 27.380 |

CAST EP5-88-OC -011 LAT 00 03.95 LONG 140 00.0W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 22.578 | 34.834 | 22.578 | 23.930 |
| 8. | 22.575 | 34.836 | 22.573 | 23.933 |
| 18. | 22.490 | 34.843 | 22.486 | 23.963 |
| 36. | 21.912 | 34.935 | 21.905 | 24.196 |
| 57. | 21.383 | 35.035 | 21.372 | 24.420 |
| 78. | 20.713 | 35.120 | 20.698 | 24.668 |
| 97. | 19.484 | 35.386 | 19.466 | 25.197 |
| 122. | 16.342 | 35.185 | 16.322 | 25.816 |
| 146. | 14.807 | 35.059 | 14.785 | 26.065 |
| 196. | 12.385 | 34.855 | 12.359 | 26.408 |
| 246. | 11.817 | 34.833 | 11.785 | 26.501 |
| 298. | 11.683 | 34.827 | 11.645 | 26.522 |

CAST EP5-88-OC -008 LAT 00 30.55 LONG 139 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 22.037 | 34.909 | 22.037 | 24.140 |
| 17. | 21.858 | 34.927 | 21.855 | 24.204 |
| 36. | 21.667 | 34.986 | 21.660 | 24.303 |
| 56. | 21.426 | 35.099 | 21.415 | 24.457 |
| 76. | 21.468 | 35.210 | 21.453 | 24.531 |
| 96. | 20.373 | 35.538 | 20.355 | 25.079 |
| 121. | 15.407 | 35.205 | 15.388 | 26.045 |
| 147. | 13.869 | 35.018 | 13.848 | 26.234 |
| 196. | 12.581 | 34.876 | 12.555 | 26.386 |
| 296. | 11.413 | 34.810 | 11.376 | 26.559 |
| 495. | 8.561 | 34.648 | 8.508 | 26.920 |
| 997. | 4.551 | 34.555 | 4.471 | 27.382 |

CAST EP5-88-OC -013 LAT 00 29.4N LONG 140 00.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 23.172 | 34.761 | 23.172 | 23.704 |
| 17. | 23.025 | 34.770 | 23.022 | 23.755 |
| 36. | 22.397 | 34.822 | 22.390 | 23.974 |
| 57. | 21.415 | 34.959 | 21.404 | 24.354 |
| 77. | 20.697 | 35.071 | 20.682 | 24.635 |
| 98. | 19.875 | 35.126 | 19.857 | 24.897 |
| 122. | 17.086 | 35.059 | 17.066 | 25.545 |
| 146. | 14.386 | 34.988 | 14.365 | 26.101 |
| 197. | 12.457 | 34.805 | 12.431 | 26.355 |
| 296. | 11.506 | 34.818 | 11.468 | 26.548 |
| 494. | 8.238 | 34.632 | 8.186 | 26.957 |
| 995. | 4.538 | 34.557 | 4.459 | 27.385 |

CAST EP5-88-OC -010 LAT 00 05.35 LONG 139 58.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 495. | 8.540 | 34.650 | 8.487 | 26.925 |
| 996. | 4.549 | 34.557 | 4.469 | 27.384 |
| 1492. | 2.966 | 34.607 | 2.859 | 27.584 |
| 1988. | 2.299 | 34.642 | 2.159 | 27.672 |
| 2493. | 1.850 | 34.666 | 1.673 | 27.729 |
| 2739. | 1.729 | 34.672 | 1.532 | 27.745 |
| 2994. | 1.660 | 34.676 | 1.440 | 27.755 |
| 3242. | 1.614 | 34.680 | 1.371 | 27.763 |
| 3492. | 1.555 | 34.684 | 1.288 | 27.772 |
| 3741. | 1.466 | 34.691 | 1.176 | 27.785 |
| 4194. | 1.414 | 34.696 | 1.076 | 27.796 |

CAST EP5-88-OC -014 LAT 01 00.1N LONG 140 00.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 24.221 | 34.707 | 24.221 | 23.356 |
| 16. | 24.084 | 34.705 | 24.081 | 23.396 |
| 36. | 23.077 | 34.722 | 23.070 | 23.704 |
| 57. | 21.362 | 34.877 | 21.351 | 24.306 |
| 76. | 20.094 | 34.989 | 20.080 | 24.734 |
| 97. | 19.459 | 35.009 | 19.441 | 24.916 |
| 121. | 16.145 | 34.881 | 16.126 | 25.628 |
| 147. | 14.160 | 34.870 | 14.139 | 26.058 |
| 198. | 12.687 | 34.807 | 12.660 | 26.312 |
| 296. | 11.060 | 34.784 | 11.023 | 26.604 |
| 495. | 8.014 | 34.622 | 7.963 | 26.983 |

CAST EP5-88-OC -015 LAT 01 29.7N LONG 140 00.5W
 CAST EP5-88-OC -019 LAT 02 59.7N LONG 140 01.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 2. | 24.822 | 34.695 | 24.822 | 23.167 | 0. | 24.500 | 34.603 | 24.500 | 23.194 |
| 18. | 24.855 | 34.699 | 24.851 | 23.161 | 19. | 24.506 | 34.602 | 24.502 | 23.192 |
| 36. | 24.534 | 34.711 | 24.526 | 23.268 | 37. | 24.456 | 34.600 | 24.448 | 23.207 |
| 56. | 22.540 | 34.715 | 22.529 | 23.854 | 57. | 24.360 | 34.612 | 24.348 | 23.246 |
| 76. | 20.888 | 34.758 | 20.874 | 24.345 | 77. | 23.734 | 34.671 | 23.718 | 23.477 |
| 96. | 19.725 | 34.865 | 19.707 | 24.737 | 98. | 22.685 | 34.736 | 22.665 | 23.831 |
| 121. | 16.790 | 34.868 | 16.770 | 25.468 | 121. | 21.085 | 34.821 | 21.062 | 24.342 |
| 146. | 14.706 | 34.851 | 14.684 | 25.927 | 146. | 19.181 | 34.844 | 19.155 | 24.864 |
| 195. | 12.848 | 34.887 | 12.821 | 26.342 | 198. | 12.075 | 34.705 | 12.049 | 26.351 |
| 297. | 11.075 | 34.780 | 11.038 | 26.598 | 296. | 10.609 | 34.741 | 10.573 | 26.651 |
| 495. | 8.207 | 34.631 | 8.155 | 26.961 | 495. | 7.776 | 34.607 | 7.726 | 27.006 |
| 1029. | 4.321 | 34.562 | 4.240 | 27.413 | 990. | 4.227 | 34.565 | 4.150 | 27.424 |

CAST EP5-88-OC -016 LAT 02 00.6N LONG 140 00.4W
 CAST EP5-88-OC -020 LAT 03 59.4N LONG 139 59.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 492. | 8.001 | 34.616 | 7.951 | 26.980 | 0. | 24.407 | 34.556 | 24.407 | 23.186 |
| 993. | 4.406 | 34.561 | 4.328 | 27.402 | 17. | 24.411 | 34.556 | 24.407 | 23.186 |
| 1492. | 3.123 | 34.604 | 3.014 | 27.568 | 37. | 24.378 | 34.558 | 24.370 | 23.199 |
| 1992. | 2.378 | 34.688 | 2.236 | 27.663 | 58. | 24.301 | 34.572 | 24.289 | 23.233 |
| 2493. | 1.855 | 34.667 | 1.678 | 27.730 | 76. | 24.142 | 34.623 | 24.126 | 23.320 |
| 2741. | 1.786 | 34.672 | 1.588 | 27.741 | 96. | 23.684 | 34.672 | 23.664 | 23.494 |
| 2992. | 1.723 | 34.673 | 1.502 | 27.748 | 120. | 22.903 | 34.594 | 22.879 | 23.662 |
| 3240. | 1.571 | 34.681 | 1.329 | 27.766 | 146. | 21.602 | 34.840 | 21.574 | 24.216 |
| 3496. | 1.464 | 34.690 | 1.199 | 27.783 | 195. | 14.725 | 34.670 | 14.696 | 25.784 |
| 3741. | 1.419 | 34.693 | 1.130 | 27.790 | 297. | 9.881 | 34.687 | 9.847 | 26.734 |
| 4242. | 1.434 | 34.695 | 1.090 | 27.794 | 493. | 8.064 | 34.617 | 8.013 | 26.971 |
| | | | | | 1009. | 4.232 | 34.568 | 4.154 | 27.427 |

CAST EP5-88-OC -017 LAT 02 00.2N LONG 140 00.7W
 CAST EP5-88-OC -021 LAT 05 08.3N LONG 140 03.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 1. | 24.829 | 34.632 | 24.829 | 23.117 | 1. | 24.299 | 34.574 | 24.299 | 23.232 |
| 8. | 24.834 | 34.631 | 24.832 | 23.115 | 8. | 24.300 | 34.573 | 24.298 | 23.231 |
| 17. | 24.814 | 34.630 | 24.810 | 23.121 | 18. | 24.300 | 34.574 | 24.296 | 23.233 |
| 37. | 24.572 | 34.619 | 24.564 | 23.187 | 38. | 24.275 | 34.578 | 24.267 | 23.244 |
| 57. | 22.967 | 34.664 | 22.955 | 23.693 | 57. | 24.107 | 34.596 | 24.095 | 23.309 |
| 76. | 21.220 | 34.790 | 21.205 | 24.279 | 77. | 24.015 | 34.613 | 23.999 | 23.350 |
| 97. | 20.751 | 34.868 | 20.733 | 24.467 | 96. | 24.019 | 34.620 | 23.999 | 23.356 |
| 121. | 18.064 | 34.856 | 18.043 | 25.152 | 146. | 23.155 | 34.817 | 23.125 | 23.760 |
| 147. | 14.762 | 34.902 | 14.740 | 25.954 | 197. | 13.287 | 34.654 | 13.260 | 26.073 |
| 196. | 12.830 | 34.887 | 12.803 | 26.345 | 245. | 11.102 | 34.729 | 11.072 | 26.552 |
| 246. | 11.888 | 34.828 | 11.856 | 26.483 | 296. | 10.272 | 34.709 | 10.237 | 26.684 |
| 295. | 11.061 | 34.767 | 11.024 | 26.590 | | | | | |

CAST EP5-88-OC -018 LAT 01 29.7N LONG 140 00.5W
 CAST EP5-88-OC -022 LAT 05 08.3N LONG 140 03.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 2. | 24.822 | 34.695 | 24.822 | 23.167 | 0. | 24.500 | 34.603 | 24.500 | 23.194 |
| 18. | 24.855 | 34.699 | 24.851 | 23.161 | 19. | 24.506 | 34.602 | 24.502 | 23.192 |
| 36. | 24.534 | 34.711 | 24.526 | 23.268 | 37. | 24.456 | 34.600 | 24.448 | 23.207 |
| 56. | 22.540 | 34.715 | 22.529 | 23.854 | 57. | 24.360 | 34.612 | 24.348 | 23.246 |
| 76. | 20.888 | 34.758 | 20.874 | 24.345 | 77. | 23.734 | 34.671 | 23.718 | 23.477 |
| 96. | 19.725 | 34.865 | 19.707 | 24.737 | 98. | 22.685 | 34.736 | 22.665 | 23.831 |
| 121. | 16.790 | 34.868 | 16.770 | 25.468 | 121. | 21.085 | 34.821 | 21.062 | 24.342 |
| 146. | 14.706 | 34.851 | 14.684 | 25.927 | 146. | 19.181 | 34.844 | 19.155 | 24.864 |
| 195. | 12.848 | 34.887 | 12.821 | 26.342 | 198. | 12.075 | 34.705 | 12.049 | 26.351 |
| 297. | 11.075 | 34.780 | 11.038 | 26.598 | 296. | 10.609 | 34.741 | 10.573 | 26.651 |
| 495. | 8.207 | 34.631 | 8.155 | 26.961 | 495. | 7.776 | 34.607 | 7.726 | 27.006 |
| 1029. | 4.321 | 34.562 | 4.240 | 27.413 | 990. | 4.227 | 34.565 | 4.150 | 27.424 |

CAST EP5-88-OC -022 LAT 05 07.6N LONG 140 02.3W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 502. | 8.155 | 34.621 | 8.103 | 26.961 |
| 979. | 4.308 | 34.567 | 4.232 | 27.417 |
| 1495. | 2.903 | 34.612 | 2.797 | 27.594 |
| 1993. | 2.179 | 34.647 | 2.040 | 27.686 |
| 2492. | 1.885 | 34.664 | 1.708 | 27.725 |
| 2742. | 1.823 | 34.669 | 1.624 | 27.735 |
| 2992. | 1.725 | 34.674 | 1.504 | 27.748 |
| 3242. | 1.597 | 34.681 | 1.354 | 27.765 |
| 3492. | 1.517 | 34.686 | 1.251 | 27.776 |
| 3743. | 1.450 | 34.691 | 1.160 | 27.786 |
| 4098. | 1.388 | 34.695 | 1.061 | 27.796 |

CAST EP5-88-OC -025 LAT 06 30.3N LONG 139 59.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 26.681 | 34.794 | 26.681 | 22.666 |
| 18. | 26.685 | 34.794 | 26.681 | 22.666 |
| 37. | 26.669 | 34.821 | 26.661 | 22.693 |
| 57. | 26.475 | 34.837 | 26.462 | 22.768 |
| 77. | 25.496 | 34.809 | 25.479 | 23.052 |
| 97. | 25.017 | 34.853 | 24.996 | 23.233 |
| 122. | 23.158 | 34.846 | 23.133 | 23.780 |
| 146. | 19.133 | 34.776 | 19.107 | 24.824 |
| 197. | 12.231 | 34.671 | 12.205 | 26.295 |
| 296. | 10.159 | 34.702 | 10.124 | 26.698 |
| 496. | 8.304 | 34.628 | 8.252 | 26.944 |
| 998. | 4.561 | 34.565 | 4.481 | 27.389 |

CAST EP5-88-OC -023 LAT 05 29.7N LONG 139 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 24.499 | 34.580 | 24.499 | 23.177 |
| 17. | 24.237 | 34.582 | 24.233 | 23.257 |
| 37. | 24.158 | 34.593 | 24.150 | 23.290 |
| 57. | 24.138 | 34.598 | 24.126 | 23.301 |
| 80. | 24.118 | 34.601 | 24.101 | 23.311 |
| 97. | 24.113 | 34.604 | 24.092 | 23.316 |
| 120. | 23.790 | 34.731 | 23.765 | 23.509 |
| 147. | 22.862 | 34.964 | 22.832 | 23.956 |
| 199. | 12.514 | 34.634 | 12.487 | 26.211 |
| 297. | 10.293 | 34.708 | 10.258 | 26.680 |
| 501. | 8.482 | 34.634 | 8.429 | 26.922 |
| 993. | 4.331 | 34.566 | 4.253 | 27.414 |

CAST EP5-88-OC -026 LAT 06 56.7N LONG 139 58.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|---------|
| 494. | 8.338 | 34.632* | 8.286* | 26.942* |
| 994. | 4.631 | 34.560* | 4.551* | 27.377* |
| 1494. | 2.963 | 34.609* | 2.856* | 27.586* |
| 1994. | 2.181 | 34.646* | 2.042* | 27.685* |
| 2491. | 1.865 | 34.668* | 1.688* | 27.730* |
| 2991. | 1.690 | 34.677* | 1.470* | 27.753* |
| 3490. | 1.500 | 34.687* | 1.235* | 27.778* |
| 3740. | 1.425 | 34.691* | 1.136* | 27.788* |
| 3992. | 1.396 | 34.693* | 1.081* | 27.793* |
| 4241. | 1.393 | 34.695* | 1.050* | 27.797* |
| 4693. | 1.405 | 34.696* | 1.010* | 27.800* |

CAST EP5-88-OC -024 LAT 05 58.9N LONG 139 59.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 17. | 26.635 | 34.772 | 26.631 | 22.665 |
| 36. | 25.837 | 34.791 | 25.829 | 22.931 |
| 57. | 24.997 | 34.712 | 24.985 | 23.130 |
| 77. | 24.463 | 34.630 | 24.447 | 23.230 |
| 97. | 24.186 | 34.601 | 24.166 | 23.292 |
| 122. | 23.801 | 34.771 | 23.776 | 23.536 |
| 146. | 21.258 | 34.844 | 21.230 | 24.314 |
| 195. | 12.101 | 34.678 | 12.075 | 26.325 |
| 296. | 10.237 | 34.701 | 10.202 | 26.684 |
| 495. | 8.283 | 34.625 | 8.231 | 26.945 |
| 992. | 4.459 | 34.565 | 4.380 | 27.400 |

CAST EP5-88-OC -027 LAT 07 01.7N LONG 140 00.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 26.708 | 34.822 | 26.708 | 22.679 |
| 10. | 26.705 | 34.822 | 26.703 | 22.680 |
| 18. | 26.689 | 34.822 | 26.685 | 22.686 |
| 37. | 26.554 | 34.834 | 26.546 | 22.739 |
| 56. | 26.376 | 34.817 | 26.363 | 22.784 |
| 79. | 26.247 | 34.835 | 26.229 | 22.839 |
| 95. | 25.995 | 34.841 | 25.974 | 22.923 |
| 122. | 22.472 | 34.815 | 22.447 | 23.953 |
| 147. | 15.334 | 34.673 | 15.311 | 25.652 |
| 197. | 11.477 | 34.715 | 11.452 | 26.471 |
| 242. | 10.447 | 34.692 | 10.418 | 26.640 |

* Calculated from CTD values

CAST EP5-88-OC -028 LAT 07 29.7N LONG 139 59.1W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 26.488 | 34.819 | 26.488 | 22.746 |
| 18. | 26.474 | 34.819 | 26.470 | 22.752 |
| 38. | 26.436 | 34.819 | 26.428 | 22.765 |
| 58. | 26.244 | 34.816 | 26.231 | 22.824 |
| 78. | 25.869 | 34.819 | 25.852 | 22.945 |
| 95. | 24.429 | 34.877 | 24.409 | 23.428 |
| 122. | 16.744 | 34.714 | 16.724 | 25.361 |
| 147. | 13.101 | 34.615 | 13.081 | 26.079 |
| 196. | 11.155 | 34.709 | 11.131 | 26.526 |
| 296. | 9.960 | 34.688 | 9.926 | 26.721 |
| 495. | 8.466 | 34.632 | 8.413 | 26.922 |
| 997. | 4.638 | 34.562 | 4.558 | 27.378 |

CAST EP5-88-OC -029 LAT 07 59.6N LONG 139 59.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 27.249 | 34.591 | 27.249 | 22.332 |
| 17. | 27.263 | 34.593 | 27.259 | 22.330 |
| 37. | 27.268 | 34.605 | 27.259 | 22.339 |
| 55. | 27.282 | 34.667 | 27.269 | 22.383 |
| 75. | 25.658 | 34.885 | 25.641 | 23.060 |
| 97. | 19.809 | 34.732 | 19.791 | 24.613 |
| 122. | 14.827 | 34.644 | 14.809 | 25.740 |
| 149. | 12.238 | 34.679 | 12.218 | 26.298 |
| 199. | 10.889 | 34.717 | 10.865 | 26.580 |
| 298. | 9.853 | 34.684 | 9.819 | 26.736 |
| 494. | 8.034 | 34.617 | 7.983 | 26.976 |
| 993. | 4.679 | 34.560 | 4.599 | 27.372 |

CAST EP5-88-OC -031 LAT 08 31.3N LONG 139 56.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 27.316 | 34.364 | 27.316 | 22.140 |
| 18. | 27.325 | 34.362 | 27.321 | 22.137 |
| 37. | 27.345 | 34.396 | 27.337 | 22.157 |
| 58. | 25.587 | 34.804 | 25.574 | 23.019 |
| 81. | 20.053 | 34.741 | 20.038 | 24.555 |
| 96. | 17.384 | 34.558 | 17.368 | 25.088 |
| 121. | 13.529 | 34.615 | 13.512 | 25.991 |
| 149. | 11.138 | 34.733 | 11.114 | 26.344 |
| 197. | 9.836 | 34.725 | 9.802 | 26.541 |
| 298. | 7.898 | 34.684 | 7.847 | 26.739 |
| 497. | 4.559 | 34.597 | 4.479 | 26.980 |
| 1002. | | 34.562 | | 27.387 |

CAST EP5-88-OC -032 LAT 08 57.2N LONG 140 07.6W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 496. | 8.040 | 34.600 | 7.989 | 26.962 |
| 1001. | 4.670 | 34.559 | 4.589 | 27.372 |
| 1496. | 3.181 | 34.602 | 3.071 | 27.561 |
| 1992. | 2.252 | 34.638 | 2.112 | 27.673 |
| 2492. | 1.885 | 34.662 | 1.707 | 27.724 |
| 2742. | 1.802 | 34.669 | 1.603 | 27.737 |
| 2988. | 1.706 | 34.674 | 1.486 | 27.750 |
| 3239. | 1.606 | 34.678 | 1.364 | 27.762 |
| 3500. | 1.507 | 34.684 | 1.241 | 27.775 |
| 3744. | 1.441 | 34.689 | 1.151 | 27.785 |
| 4494. | 1.401 | 34.695 | 1.030 | 27.798 |

CAST EP5-88-OC -033 LAT 08 58.5N LONG 140 09.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 2. | 27.257 | 34.431 | 27.257 | 22.209 |
| 6. | 27.243 | 34.432 | 27.242 | 22.215 |
| 18. | 27.222 | 34.431 | 27.218 | 22.222 |
| 37. | 27.198 | 34.432 | 27.190 | 22.232 |
| 56. | 23.907 | 34.736 | 23.895 | 23.474 |
| 77. | 19.876 | 34.736 | 19.862 | 24.598 |
| 95. | 14.123 | 34.490 | 14.109 | 25.771 |
| 121. | 12.108 | 34.665 | 12.092 | 26.312 |
| 147. | 11.513 | 34.737 | 11.494 | 26.481 |
| 197. | 10.828 | 34.711 | 10.804 | 26.586 |
| 246. | 10.214 | 34.692 | 10.185 | 26.680 |
| 296. | 9.727 | 34.676 | 9.693 | 26.751 |

CAST EP5-88-OC -034 LAT 07 03.0N LONG 147 29.8W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 27.112 | 34.758 | 27.112 | 22.502 |
| 7. | 27.094 | 34.756 | 27.092 | 22.507 |
| 18. | 27.052 | 34.758 | 27.048 | 22.522 |
| 36. | 26.993 | 34.783 | 26.985 | 22.561 |
| 56. | 26.966 | 34.791 | 26.953 | 22.577 |
| 78. | 26.628 | 34.854 | 26.610 | 22.734 |
| 99. | 25.500 | 34.928 | 25.478 | 23.142 |
| 120. | 21.157 | 34.754 | 21.134 | 24.272 |
| 150. | 15.711 | 34.674 | 15.688 | 25.569 |
| 200. | 11.376 | 34.668 | 11.351 | 26.453 |
| 247. | 10.512 | 34.687 | 10.482 | 26.624 |
| 299. | 9.932 | 34.680 | 9.897 | 26.720 |

CAST EP5-88-OC -035 LAT 07 01.2N LONG 147 28.4W
 CAST EP5-88-OC -041 LAT 06 58.9N LONG 137 30.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 494. | 8.597 | 34.635 | 8.544 | 26.905 | 1. | 27.062 | 34.513 | 27.062 | 22.333 |
| 987. | 4.793 | 34.556 | 4.712 | 27.356 | 18. | 27.056 | 34.513 | 27.062 | 22.333 |
| 1491. | 3.064 | 34.606 | 2.956 | 27.575 | 37. | 27.036 | 34.643 | 27.028 | 22.442 |
| 1993. | 2.238 | 34.641 | 2.098 | 27.676 | 57. | 27.049 | 34.666 | 27.036 | 22.457 |
| 2491. | 1.897 | 34.663 | 1.719 | 27.723 | 77. | 26.954 | 34.712 | 26.936 | 22.523 |
| 2991. | 1.715 | 34.674 | 1.494 | 27.749 | 97. | 23.383 | 34.807 | 23.363 | 23.684 |
| 3493. | 1.526 | 34.686 | 1.260 | 27.775 | 122. | 19.164 | 34.644 | 19.142 | 24.714 |
| 3742. | 1.478 | 34.689 | 1.187 | 27.783 | 147. | 13.715 | 34.602 | 13.694 | 25.944 |
| 3992. | 1.409 | 34.692 | 1.093 | 27.792 | 196. | 11.429 | 34.682 | 11.404 | 26.454 |
| 4492. | 1.387 | 34.696 | 1.016 | 27.800 | 297. | 10.196 | 34.703 | 10.161 | 26.693 |
| 4693. | 1.407 | 34.696 | 1.012 | 27.800 | 494. | 8.689 | 34.639 | 8.636 | 26.893 |
| | | | | | 1000. | 4.709 | 34.557 | 4.628 | 27.366 |

CAST EP5-88-OC -036 LAT 06 59.5N LONG 144 59.3W
 CAST EP5-88-OC -042 LAT 07 00.5N LONG 134 58.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 1. | 27.434 | 34.171 | 27.434 | 21.957 | 1. | 24.778 | 34.639 | 24.778 | 23.137 |
| 18. | 27.447 | 34.172 | 27.443 | 21.955 | 17. | 24.381 | 34.647 | 24.377 | 23.264 |
| 37. | 27.014 | 34.487 | 27.005 | 22.332 | 39. | 24.111 | 34.650 | 24.103 | 23.348 |
| 57. | 25.364 | 34.867 | 25.352 | 23.135 | 57. | 24.037 | 34.642 | 24.025 | 23.365 |
| 77. | 22.973 | 34.872 | 22.957 | 23.850 | 79. | 24.028 | 34.640 | 24.011 | 23.367 |
| 96. | 20.720 | 34.856 | 20.702 | 24.466 | 96. | 24.026 | 34.637 | 24.006 | 23.367 |
| 121. | 16.047 | 34.569 | 16.028 | 25.411 | 121. | 22.128 | 34.705 | 22.104 | 23.966 |
| 148. | 12.911 | 34.582 | 12.891 | 26.091 | 143. | 21.653 | 34.747 | 21.625 | 24.131 |
| 198. | 10.969 | 34.706 | 10.945 | 26.557 | 194. | 14.224 | 34.663 | 14.196 | 25.886 |
| 296. | 9.705 | 34.678 | 9.671 | 26.756 | 294. | 11.135 | 34.741 | 11.098 | 26.556 |
| 496. | 8.157 | 34.612 | 8.106 | 26.954 | 497. | 9.043 | 34.656 | 8.988 | 26.851 |
| 1014. | 4.442 | 34.565 | 4.362 | 27.402 | 998. | 4.714 | 34.556 | 4.633 | 27.365 |

CAST EP5-88-OC -037 LAT 06 59.9N LONG 142 28.8W
 CAST EP5-88-OC -043 LAT 07 01.7N LONG 132 30.5W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH | PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|-----------|----------|-----------|----------|--------|
| 0. | 26.847 | 34.718 | 26.847 | 22.556 | 1. | 26.755 | 34.536 | 26.755 | 22.448 |
| 19. | 26.847 | 34.736 | 26.843 | 22.571 | 8. | 26.757 | 34.536 | 26.755 | 22.448 |
| 36. | 25.456 | 34.719 | 25.448 | 22.994 | 17. | 26.704 | 34.540 | 26.700 | 22.469 |
| 57. | 24.105 | 34.808 | 24.093 | 23.470 | 36. | 26.646 | 34.588 | 26.638 | 22.525 |
| 77. | 23.351 | 34.820 | 23.335 | 23.702 | 57. | 26.089 | 34.660 | 26.076 | 22.755 |
| 95. | 22.524 | 34.863 | 22.505 | 23.973 | 78. | 24.276 | 34.810 | 24.259 | 23.422 |
| 122. | 21.961 | 34.886 | 21.937 | 24.150 | 98. | 22.937 | 34.830 | 22.917 | 23.830 |
| 147. | 15.225 | 34.550 | 15.203 | 25.581 | 121. | 20.556 | 34.744 | 20.533 | 24.426 |
| 196. | 11.323 | 34.659 | 11.298 | 26.456 | 147. | 15.558 | 34.689 | 15.535 | 25.614 |
| 295. | 9.979 | 34.686 | 9.945 | 26.717 | 197. | 11.913 | 34.744 | 11.888 | 26.412 |
| 496. | 8.234 | 34.620 | 8.182 | 26.948 | 249. | 10.899 | 34.727 | 10.868 | 26.587 |
| 996. | 4.650 | 34.560 | 4.570 | 27.375 | 299. | 10.460 | 34.717 | 10.424 | 26.658 |

CAST EP5-88-OC -044 LAT 06 59.9N LONG 132 29.7W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|---------|
| 498. | 8.526 | 34.628 | 8.473 | 26.910 |
| 992. | 4.639 | 34.560 | 4.559 | 27.376 |
| 1494. | 3.055 | 34.607 | 2.947 | 27.576 |
| 1988. | 2.211 | 34.642 | 2.072 | 27.679 |
| 2492. | 1.865 | 34.666 | 1.688 | 27.728 |
| 2994. | 1.700 | 34.676 | 1.479 | 27.728 |
| 3498. | 1.522 | 34.685 | 1.255 | 27.775 |
| 3740. | 1.450 | 34.689 | 1.160 | 27.785 |
| 3989. | 1.382 | 34.691 | 1.068 | 27.793 |
| 4190. | 1.386 | 34.695* | 1.049* | 27.797* |
| 4301. | 1.392 | 34.695 | 1.043 | 27.797 |

CAST EP5-88-OC -047 LAT 09 59.6N LONG 132 02.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 26.050 | 33.651 | 26.050 | 22.002 |
| 16. | 25.979 | 33.691 | 25.975 | 22.056 |
| 39. | 21.111 | 34.512 | 21.104 | 24.096 |
| 58. | 18.501 | 34.732 | 18.491 | 24.946 |
| 76. | 14.179 | 34.446 | 14.168 | 25.724 |
| 97. | 13.048 | 34.657 | 13.035 | 26.121 |
| 121. | 12.114 | 34.712 | 12.098 | 26.347 |
| 147. | 11.667 | 34.719 | 11.648 | 26.438 |
| 196. | 10.891 | 34.717 | 10.867 | 26.580 |
| 296. | 10.026 | 34.694 | 9.992 | 26.715 |
| 495. | 8.060 | 34.578 | 8.009 | 26.941 |
| 993. | 4.349 | 34.558 | 4.271 | 27.406 |

CAST EP5-88-OC -045 LAT 07 59.7N LONG 132 10.2W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 26.420 | 34.394 | 26.420 | 22.447 |
| 17. | 26.554 | 34.475 | 26.550 | 22.467 |
| 37. | 26.577 | 34.549 | 26.569 | 22.517 |
| 56. | 26.297 | 34.672 | 26.284 | 22.699 |
| 77. | 22.510 | 34.728 | 22.495 | 23.873 |
| 97. | 19.208 | 34.638 | 19.191 | 24.697 |
| 122. | 14.379 | 34.601 | 14.361 | 25.803 |
| 147. | 12.756 | 34.756 | 12.736 | 26.257 |
| 195. | 11.647 | 34.755 | 11.622 | 26.471 |
| 295. | 10.322 | 34.708 | 10.287 | 26.675 |
| 491. | 8.075 | 34.589 | 8.024 | 26.948 |
| 995. | 4.481 | 34.562 | 4.402 | 27.395 |

CAST EP5-88-OC -048 LAT 11 00.3N LONG 131 51.4W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 0. | 25.862 | 33.567 | 25.862 | 21.997 |
| 17. | 25.871 | 33.568 | 25.867 | 21.996 |
| 37. | 20.236 | 34.476 | 20.229 | 24.303 |
| 57. | 16.353 | 34.386 | 16.344 | 25.197 |
| 77. | 13.936 | 34.347 | 13.925 | 25.699 |
| 93. | 13.371 | 34.656 | 13.358 | 26.055 |
| 121. | 12.508 | 34.755 | 12.492 | 26.304 |
| 147. | 11.811 | 34.722 | 11.792 | 26.413 |
| 197. | 11.011 | 34.722 | 10.987 | 26.562 |
| 295. | 9.839 | 34.664 | 9.805 | 26.723 |
| 495. | 7.423 | 34.537 | 7.374 | 27.002 |
| 1001. | 4.253 | 34.553 | 4.175 | 27.412 |

CAST EP5-88-OC -046 LAT 09 00.1N LONG 132 07.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 26.906 | 34.072 | 26.906 | 22.051 |
| 18. | 26.942 | 34.123 | 26.938 | 22.079 |
| 37. | 26.960 | 34.261 | 26.952 | 22.179 |
| 56. | 21.107 | 34.688 | 21.096 | 24.232 |
| 77. | 15.375 | 34.532 | 15.363 | 25.532 |
| 97. | 13.238 | 34.637 | 13.225 | 26.067 |
| 122. | 12.422 | 34.737 | 12.406 | 26.307 |
| 146. | 11.840 | 34.735 | 11.821 | 26.418 |
| 196. | 11.137 | 34.739 | 11.113 | 26.552 |
| 298. | 10.158 | 34.700 | 10.123 | 26.697 |
| 497. | 7.952 | 34.580 | 7.901 | 26.959 |
| 1001. | 4.438 | 34.557 | 4.359 | 27.396 |

CAST EP5-88-OC -049 LAT 12 00.0N LONG 131 39.9W

| PRES (DB) | TEMP (C) | SAL (PSU) | POT TEMP | SIG-TH |
|-----------|----------|-----------|----------|--------|
| 1. | 24.752 | 33.606 | 24.752 | 22.365 |
| 17. | 24.751 | 33.607 | 24.747 | 22.367 |
| 36. | 24.513 | 33.686 | 24.505 | 22.499 |
| 57. | 18.703 | 34.443 | 18.693 | 24.674 |
| 77. | 14.486 | 34.284 | 14.475 | 25.534 |
| 97. | 13.423 | 34.385 | 13.410 | 25.834 |
| 119. | 12.118 | 34.518 | 12.102 | 26.196 |
| 147. | 11.206 | 34.582 | 11.188 | 26.416 |
| 198. | 10.935 | 34.685 | 10.911 | 26.547 |
| 295. | 9.631 | 34.622 | 9.598 | 26.725 |
| 496. | 7.115 | 34.525 | 7.068 | 27.035 |
| 994. | 4.219 | 34.555 | 4.142 | 27.417 |

* U.S. GOVERNMENT PRINTING OFFICE:1993-774-025/89044

* Calculated from CTD values