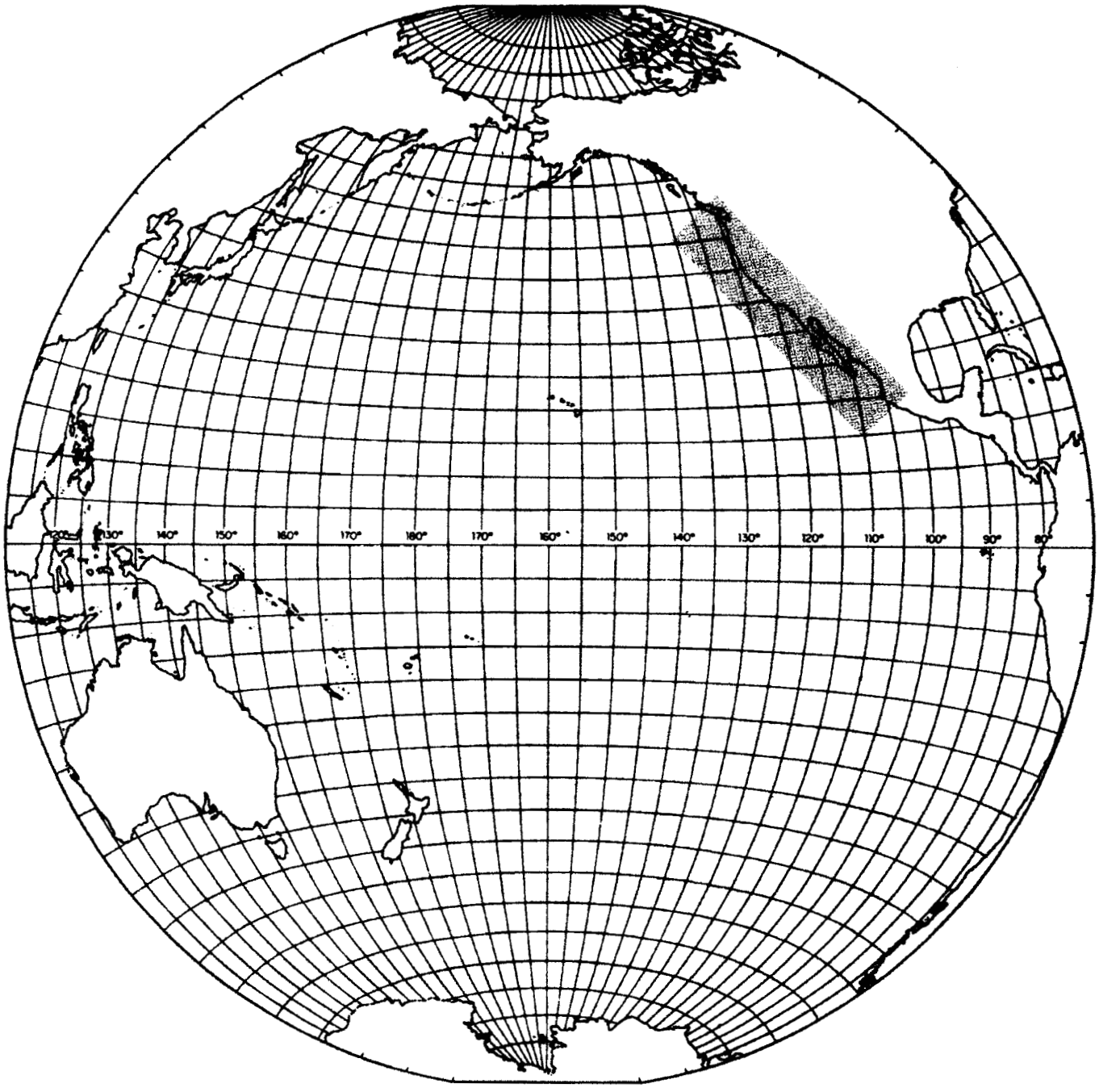
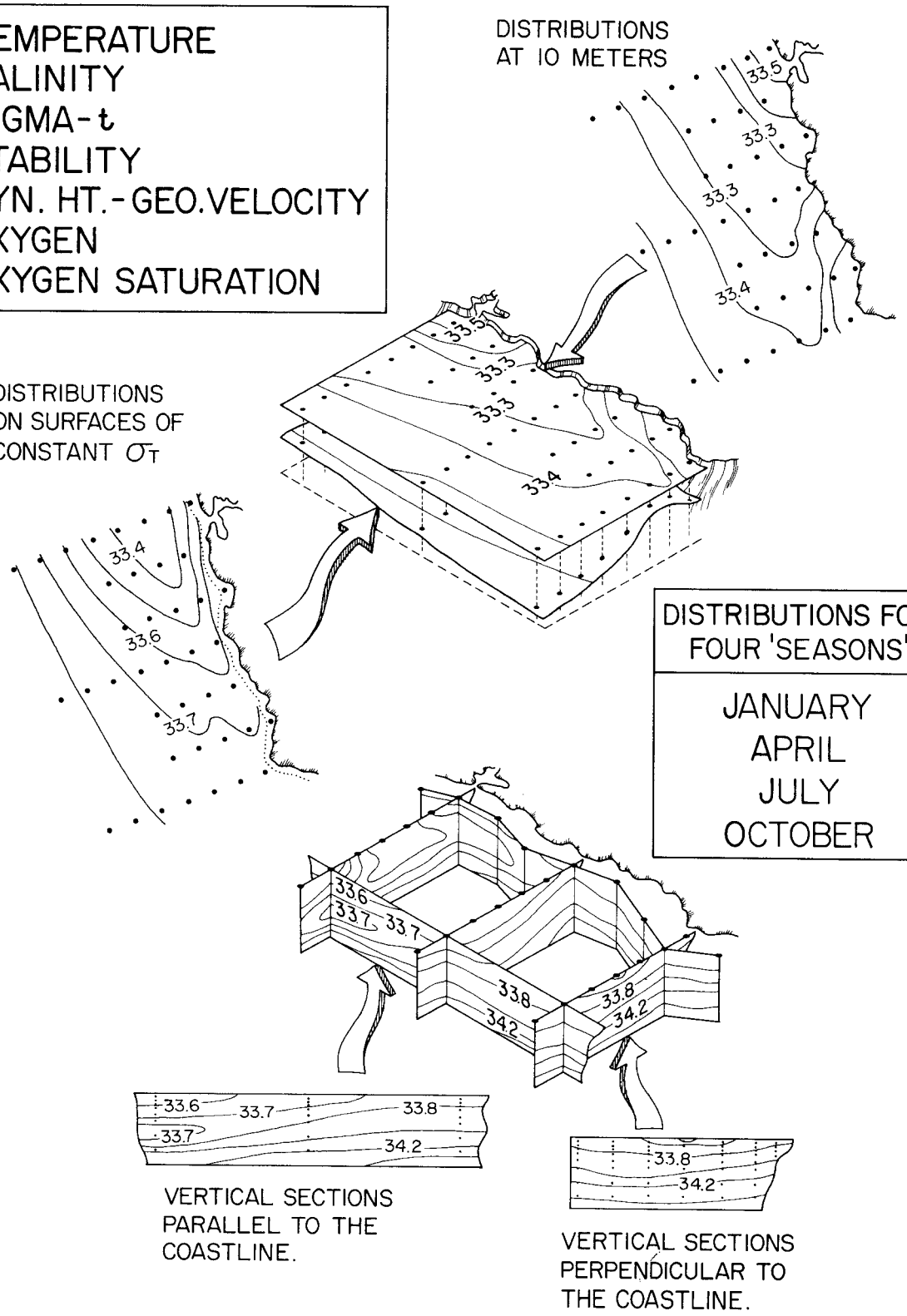
STATE OF CALIFORNIA



CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS

ATLAS No. 30

TEMPERATURE
SALINITY
SIGMA-t
STABILITY
DYN. HT.-GEO.VELOCITY
OXYGEN
OXYGEN SATURATION



DISTRIBUTIONS FOR FOUR 'SEASONS'

JANUARY
APRIL
JULY
OCTOBER

CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS

Atlas No. 30

Cooperating Agencies:
CALIFORNIA DEPARTMENT OF FISH AND GAME
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL MARINE FISHERIES SERVICE
UNIVERSITY OF CALIFORNIA, SCRIPPS INSTITUTION OF OCEANOGRAPHY

AUGUST, 1982

THE CALCOFI ATLAS SERIES

This is the thirtieth in a series of atlases containing data on the hydrography and plankton from the region of the California Current. The field work was carried out by the California Cooperative Oceanic Fisheries Investivations,[1] a program sponsored by the State of California. The cooperating agencies in the program are:

California Department of Fish and Game
National Oceanic and Atmospheric Administration, National Marine Fisheries Service[2]
University of California, Scripps Institution of Oceanography

CalCOFI atlases[3] are issued as individual units as they become available. They provide processed physical, chemical and biological measurements of the California Current region. Each number may contain one or more contributions. A general description of the CalCOFI program with its objectives appears in the preface of Atlas No. 2.

This atlas was prepared by the Marine Life Research Group, Scripps Institution of Oceanography.

CalCOFI Atlas Editorial Staff:
Abraham Fleminger, Editor
Fred J. Crowe, Cartographer

CalCOFI atlases in this series, through August 1982, are:

No. 1. Anonymous, 1963, CalCOFI atlas of 10-meter temperatures and salinities 1949 through 1959.
No. 2. Fleminger, A., 1964. Distributional atlas of calanoid copepods in the California Current region, Part I.
No. 3. Alvarino, A., 1965. Distributional atlas of Chaetognatha in the California Current region.
No. 4. Wyllie, J. G., 1966. Geostrophic flow of the California Current at the surface and at 200 meters.
No. 5. Brinton, E., 1967. Distributional atlas of Euphausiacea (Crustacea) in the California Current region, Part I.
No. 6. McGowan, J. A., 1967. Distributional atlas of pelagic molluses in the California Current region.
No. 7. Fleminger, A., 1967. Distributional atlas of calanoid copepods in the California Current region, Part II.
No. 8. Berner, L. D., 1967. Distributional atlas of Thaliacea in the California Current region.
No. 9. Kramer, D., and E. H. Ahlstrom, 1968. Distributional atlas of fish larvae in the California Current region: northern anchovy, *Engraulis mordax* (Girard). 1951 through 1965.
No. 10. Isaacs, J. D., A. Fleminger and J. K. Miller, 1969. Distributional atlas of zooplankton biomass in the California Current region: Spring and Fall 1955-1959.
No. 11. Ahlstrom, E. H., 1969. Distributional atlas of fish larvae in the California Current region: jack mackerel, *Trachurus symmetricus,* and Pacific hake, *Merluccius productus,* 1951 through 1966.
No. 12. Kramer, D., 1970. Distributional atlas of fish eggs and larvae in the California Current region: Pacific sardine, *Sardinops caerulea* (Girard). 1951 through 1966.
No. 13. Smith, P. E., 1971. Distributional atlas of zooplankton volume in the California Current region, 1951 through 1966.
No. 14. Isaacs, J. D., A. Fleminger and J. K. Miller, 1971. Distributional atlas of zooplankton biomass in the California Current region: Winter 1955-1959.
No. 15. Wyllie, J. G., and R. J. Lynn, 1971. Distribution of temperature and salinity at 10 meters, 1960–1969 and mean temperature, salinity and oxygen at 150 meters, 1950–1968 in the California Current.
No. 16. Crowe, F. J. and R. A. Schwartzlose, 1972. Release and recovery records of drift bottles in the California Current region, 1955 through 1971.
No. 17. Ahlstrom, E. H., 1972. Distributional atlas of fish larvae in the California Current region: six common mesopelagic fishes—*Vinciguerria lucetia, Triphoturus mexicanus. Stenobrachius leucopsarus, Leuroglossus stilbius, Bathylagus wesethi* and *Bathylagus ochotensis.* 1955 through 1960.
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No. 19. Bowman, T. E. and M. W. Johnson, 1973. Distributional atlas of calanoid copepods in the California Current region, 1949 and 1950.

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No. 26. Ahlstrom, E. H., H. Geoffrey Moser, and Elaine M. Sandknop, 1978. Distributional atlas of fish larvae in the California Current region: rockfishes, *Sebastes* spp., 1950 through 1975.

No. 27. Namias, J., 1979. Northern hemisphere seasonal 700 mb height and anomaly charts, 1947–1978, and associated North Pacific sea surface temperature anomalies.

No. 28. Hewitt, R., 1980. Distributional atlas of fish larvae in the California Current region: northern anchovy, *Engraulis mordax* (Girard). 1966 through 1979.

No. 29. Namias, J., 1981. Teleconnections of 700 mb height anomalies for the northern hemisphere.

No. 30. Lynn, R. J., K. A. Bliss and L. E. Eber, 1982. Vertical and horizontal distributions of seasonal mean temperature, salinity, sigma-t, stability, dynamic height, oxygen, and oxygen saturation in the California Current, 1950–1978.

[1]Usually abbreviated CalCOFI, sometimes CALCOFI or CCOFI.
[2]Formerly called U.S. Fish and Wildlife Service, Bureau of Commercial Fisheries.
[3]For citation this issue in the series should be referred to as CalCOFI Atlas No. 30.

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VERTICAL AND HORIZONTAL DISTRIBUTIONS OF SEASONAL MEAN TEMPERATURE, SALINITY, SIGMA-T, STABILITY, DYNAMIC HEIGHT, OXYGEN, AND OXYGEN SATURATION IN THE CALIFORNIA CURRENT, 1950–1978.

R. J. LYNN, K. A. BLISS AND L. E. EBER

CALCOFI ATLAS NO. 30

A. Fleminger, Editor
Marine Life Research Program
Scripps Institution of Oceanography
La Jolla, California

August, 1982

VERTICAL AND HORIZONTAL DISTRIBUTIONS OF SEASONAL MEAN TEMPERATURE, SALINITY, SIGMA-T, STABILITY, DYNAMIC HEIGHT, OXYGEN, AND OXYGEN SATURATION IN THE CALIFORNIA CURRENT, 1950–1978.

R. J. Lynn, K. A. Bliss and L. E. Eber[1]

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*Key: T = temperature, S = salinity, σ_t = sigma-t, Z = depth, E = hydrostatic stability, O_2 = dissolved oxygen, %O_2 = oxygen saturation, V = geostrophic velocity, ΔD = dynamic height and ϕ = acceleration potential.

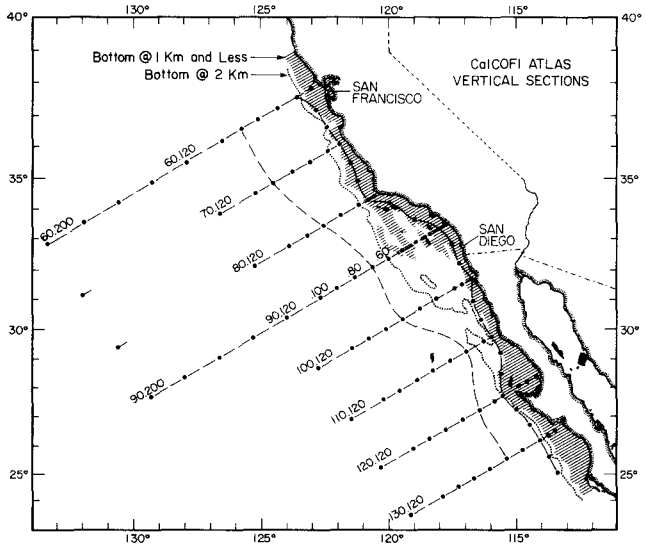
Introduction

This atlas presents a graphical summary of physical oceanographic measurements and related derived quantities for the region of the California Current based upon the CalCOFI data files for 1950 through 1978. Data were averaged for four periods within an annual cycle, each representing one season, and are displayed in vertical sections oriented both along and across the California current, and on constant depth and constant sigma-t surfaces. Together these charts provide a quasi-three-dimensional representation of the distributions of temperature, salinity, dissolved oxygen, sigma-t, hydrostatic stability, dynamic height, acceleration potential, geostrophic velocity and oxygen saturation. The four "seasons" are 1½ to 3 month time periods centered about January, April, July and October. The distributions are presented in: a) eight vertical sections perpendicular to the coastline (across the major flow patterns) spaced at 222 km (120 nmi) intervals from San Francisco, California to Punta Abreojos, Baja California (Figure); b) two vertical sections paralleling the coastline, one of which closely follows an isopleth of dynamic height that is central to the primary flow and a second one comprised of stations immediately off the continental shelf; and c) mappings on the 10-meter level surface (and

[1]National Oceanic and Atmospheric Administration, National Marine Fisheries Services, Southwest Fisheries Center, P.O. Box 271, La Jolla, California 92038.

dynamic height at 0 over 500 decibars) and three surfaces of constant sigma-t chosen to depict different strata of the upper 500 meters.

Other CalCOFI atlases have summarized oceanographic data. Horizontal distributions of temperature and salinity at 10 meters are given in Atlas No. 1 (Anonymous, 1963) and Atlas No. 15 (Wyllie and Lynn, 1971). Distributions of temperature, salinity and oxygen at 150 meters, and the mean surface layer depth are also given in Atlas No. 15. Geostrophic flow at the sea surface and at 200 meters appears in Atlas No. 4 (Wyllie, 1966). Drift bottle release and recovery records are given in Atlas No. 16 (Crowe and Schwartzlose, 1972). The time variation and annual cycle of temperature, salinity, oxygen, and sigma-t in the upper 200 meters at 23 selected CalCOFI stations are presented in Atlas No. 25 (Eber, 1977).



The Data

Physical oceanographic measurements were made on more than 16,000 occasions at stations in the CalCOFI pattern during the 1950-1978 period. The number of observed and computed parameter values compiled from the program, for standard depths[2] to 500 meters, is in excess of 1,230,000 of which approximately 570,000 were selected for this project. An additional 25,000 values were computed from the seasonal mean data in order to complete these charts.

Through 1966, 18-bottle Nansen casts were the standard sampling method at hydrographic stations. Subsequently, STD and CTD casts were taken alone, in conjunction with a Nansen cast, or with a few water-bottle samples for calibration. In all cases, values of the oceanographic parameters were interpolated to standard depths[2] and, along with values at observed depths, published in data reports (University of California, 1950-81; 1957, 1960, 1962, 1963 and 1965) and stored in magnetic tape files by the National Oceanographic Data Center (NODC), Environmental Data Information Service.

CalCOFI physical oceanographic station data were compiled at the National Marine Fisheries Service, Southwest Fisheries Center, using NODC's magnetic tape files for the period 1950-1968, and SIO's punched card files for the period 1969-1978.[3] A subfile was created for the computation of the seasonal averages presented in this atlas. This subfile contains data interpolated to standard levels, from 0 to 500 meters, for 175 selected CalCOFI stations. In creating this subfile considerable editing was required to replace erroneous or missing values with recomputed values or original values from the published data reports.

The CalCOFI station code (see Basic Station Plan, chart 1) identifies a station line and a station on that line. In previous atlases these elements were separated by a decimal. In Atlas 25 and in the present atlas it is given without the decimal; e.g., 120060 (formerly 120.60) is station 60 on line 120.

Station Selection

The 175 stations selected for this atlas are indicated in Chart 1. The criteria for selection were based upon frequency of stations occupied. In general, the frequency of occupations decreases from nearshore to offshore and from the central station lines to the north and to the south. The criteria for selection varied likewise. As few as 3 observations in a seasonal period were accepted at the westernmost stations of the grid. Other stations having many more observations were rejected if their observational frequency was well below the surrounding stations. Certain CalCOFI station lines, sometimes referred to as "cardinal lines" (lines 60, 70, 80, . . .), generally have a greater observational frequency than others. Some reflection of this may remain in the contoured charts. The cardinal lines were chosen for the sections orthogonal to the coast.

This atlas does not provide a complete accounting of the frequency of observations for the individual computed means, but a representative sampling is found in the data listings for standard deviation. The number of observations for each standard depth/station/period is given in the listings for temperature, salinity, sigma-t and oxygen for three sections (station lines 60, 90 and 120). There are fewer observations of salinity and sigma-t (and dynamic height) than temperature because most of the salinity observations taken during 1951 and January 1952 were lost. No values known to be effected by evaporation have been used. There are also occasional missing temperatures for which a salinity was observed.

[2]0, 10, 20, 30, 50, 75, 100, 125, 150, 200, 250, 300, 400, 500 meters.

[3]Eber, L. E. and N. Wiley. A revised update and retrieval system for the CalCOFI oceanographic data file (MS submitted for publication in the NOAA/NMFS Technical Memoranda series).

In nine instances, data for two stations were combined and designated as a single station for the purpose of computing means. In each case, the combined stations were rarely occupied on the same cruise and, with one exception, were within 2 station units (14.8 km or 8 nmi) of each other.

The combined pairs are:

60055 → 60052
70055 → 70053
73055 → 73053
77050 → 77051
80051 → 80052
90030 → 90032
90055 → 90053
93027 → 93028
123040 → 123042

The "Seasonal" Periods

The frequency of sampling has undergone several important modifications since the inception of the CalCOFI program. A resulting characteristic of the data record is that the months of January, April, July and October have a greater frequency of sampling than most other months. The majority of observations used for each seasonal period fall within one of these four months. Only one observation was used for each seasonal period each year. When there was no observation in the target month, an observation from a preceding or succeeding month was used if available. The average span of calendar days used for the seasonal periods is 55 for the orthogonal sections and 66 for the parallel sections and surfaces. We feel that the names of the most commonly observed months are the appropriate designators for the periods.

Averages of Data

Arithmetic averages were computed from values of temperature, salinity, sigma-t, dissolved oxygen and dynamic height for each standard depth of each station for each "seasonal" period.

In the data archives dynamic height is given as referred to the sea surface, i.e., the specific volume anomaly was integrated with depth starting from the sea surface. After the standard depth averages were computed, each column of values was transformed to reflect a reference to 500 db (meters). For these stations where bottom depth is less than 500 meters, the void in the field of dynamic height below the deepest observed value was filled by the shoreward extrapolation of the slope in the deeper field of dynamic height at the nearest offshore pair of stations, using the method of Montgomery (1941), as modified by Reid and Mantyla (1975). This method permits an estimation of dynamic height referred to 500 db and the computation of geostrophic velocity for these shallower stations.

Averages of Computed Quantities

Hydrostatic stability

Stability is approximated by

$$\frac{d\bar{\sigma}_t}{d\,Z} \times 10^5.$$

In general, this calculation differs from true hydrostatic stability with compressibility terms (Hesselberg and Sverdrup, 1914) by less than 1% above 200 meters and about 4% near 500 meters. The estimation of stability by this method permits a saving of effort while retaining all essential features of the true field.

Profiles of $\bar{\sigma}_t$ vs depth at 10-meter intervals were created by fitting parabolas to the two successive sets of three values at standard depths, each of which bracket any 10m level, and averaging the values of the parabolas at that level. If the scheme created an extreme value between the values at standard depths, the quadratic interpolation was replaced by linear interpolation. Hydrostatic stability was calculated as the differences of $\bar{\sigma}_t$ over a depth interval of 20 meters. The multiplier 10^5 provides the proper order of magnitude of stability which is commonly reported in units of $g/cm^3/m \times 10^{-8}$.

Geostrophic velocity

Geostrophic velocity, referred to 500 db (meters), was calculated from the standard formula (e.g., LaFond, 1951) using the mean field of dynamic height. (Negative values indicate southward flow). Before this calculation was made, the values of dynamic height were assigned to a plotting grid based upon the CalCOFI station numbering system which translates directly to distance (one unit of station number = 7.4 km or 4 nmi). A grid interval of 2.5 station units was used along the horizontal axis of the plot. Hence, those stations which did not have a unit digit of 0 or 5 were horizontally interpolated to grid points. The distance divisor for the geostrophic velocity formula was adjusted accordingly. The smallest grid separation used for velocity computation was 5 station units (37 km or 20 nmi).

Acceleration potential

The distribution of acceleration potential (Montgomery, 1937; Montgomery and Stroup, 1962) on a surface of constant density (σ_t) provides the same function as dynamic height on a surface of constant depth. Its contours and gradients indicate the direction and relative speed of geostrophic flow along the surface. The function used here is:

$$\int_{500\ db}^{p'} \delta dp + p'\delta'$$

where depth replaces pressure p, δ is specific volume anomaly, and p′ and δ' are the depth and specific volume anomaly, respectively, at the level of the chosen surface of constant σ_t.

Oxygen saturation

Oxygen saturation was calculated by the formula according to Weiss (1970) from matched sets of observed oxygen, temperature and salinity, and then averaged.

Standard deviation

The standard deviations about the seasonal means were calculated for three orthogonal sections (station lines 60, 90, and 120). For some of the quantities at some levels, there is a trend to the measurements over the time span of the seasonal period. To eliminate the influence of this trend upon the calculation of standard deviation, the scheme employed by Lynn (1967) was used. A combined annual and semi-annual harmonic curve was fitted to the complete data record at each sampling point. The deviations from these curves were then used to calculate standard deviation. The formula used was:

$$\frac{\sqrt{\Sigma\,(\mathrm{dev})^2}}{n - 1}$$

Interpolations on σ_t surfaces

Three surfaces defined by a constant value of σ_t were chosen to display distributions at depth; σ_t = 25.0, 25.8 and 26.6.[4] The values were chosen in part to follow extremes in the distributions of salinity and also to illustrate several layers in the upper 500 meters. Charts of distributions on surfaces of constant σ_t offer a useful and different perspective from those on surfaces of constant depth. For example, one of the factors evident in distributions on constant depth surfaces, at depths greater than the mixed layer, is the strong influence of the adjustment of the water column to geostrophic flow. That is, the contours of such distributions, in part, reflect the intersections of the constant depth surface with parameter fields that are sloping in response to geostrophically balanced flow. In contrast, distributions on surfaces of constant σ_t, which slope in approximate balance to the geostrophic flow, reflect primarily the effects of the flow, such as the transport of relative extremes of water characteristics. The following example clarifies this difference. The temperature pattern at 150 meters during January (CalCOFI Atlas No. 15) shows a narrow tongue of relatively cold water close to the coast of central California. The salinity pattern at 150 meters for the same month shows a narrow tongue of low salinity water far offshore of central California. Interpretation of these geographically separate features is not immediately obvious. (An examination of the vertical sections of these characteristics in this present atlas can assist in understanding the separate features.) The distributions of temperature and salinity on the surface where σ_t = 25.8 are simpler and lend themselves to a clearer interpretation. This σ_t surface lies deeper than 150m far offshore and shallower nearshore. A broad tongue of low-temperature, low-salinity water penetrates southward, centered along an axis that lies between the features found on the 150 meter charts. Because σ_t is a function of temperature and salinity, an isopleth of temperature at constant σ_t is also an isopleth of salinity; i.e., the contour fields are identical except for the choice of contours that are displayed on each.

The supporting theory behind this use of σ_t surfaces is that they approximate isentropic surfaces; thus, it is along these surfaces that the least amount of energy is required for mixing. Because mixing occurs more readily along than across these surfaces, distributions on these surfaces tend to reveal the effects of large scale processes.

The depths of the chosen values of σ_t were interpolated linearly at each station. Values of salinity, oxygen and dynamic height were interpolated to these depths. The interpolated salinities and appropriate densities were used to calculate the corresponding temperature. Temperature was calculated rather than interpolated because the slight sampling differences, (previously cited) could produce an interpolated temperature that might not pair with the interpolated salinity to exactly reproduce the desired σ_t. Despite the defined relation of temperature to salinity at constant σ_t, both quantities were mapped for the user's convenience. The values of dynamic height interpolated to constant σ_t surfaces were used in computing acceleration potential.

Contouring

The contours depicting the mean seasonal fields of oceanographic parameters were produced by computer with an ALGOL program.[5] The contouring procedure requires that the mean fields be defined by values at the grid points of a rectangular grid. The grids for both the vertical sections and the charts were chosen such that most stations and standard depths were already coincident with grid points. The grid intervals for vertical sections were 2.5 station units (18.5 km or 10 nmi) laterally by 10 meters vertically. The grid intervals for the maps were 2.5 station units along the station lines and 1.6667 line units (37 km or 20 nmi) between station lines.

[4]Equivalent to δ_t values of 296.7, 220.6 and 144.7 centiliters per ton respectively.

[5]Eber, L. E. EDMAP2 — An environmental data mapping program. (MS submitted for publication to NOAA/NMFS Technical Memorandum series).

Grid points which did not coincide with stations were assigned values either from nearby stations or by interpolation from surrounding grid points. Special care was taken to preserve correct gradients of dynamic height and acceleration potential. A 3-by-3 point, two-dimensional filter was applied to lightly smooth the values at grid points, excepting the boundary values. The computer plots for the vertical sections required only minor touch-up for publication. The charts of distributions were traced onto printed base charts by SIO illustrators.

Contour line thickness was varied to highlight particular intervals. In areas of sparse data, contours appear as long dashed lines. Where possible, regular contour intervals were chosen and used throughout the atlas. Half interval contours were added using short dashed lines where additional definition was needed. Only the vertical sections of oxygen saturation have several contours of irregular intervals added in the surface layer. Charts of oxygen saturation at 10 meters have a contour interval of 2% while the charts on σ_t surfaces use 5%. The light shading on some charts of distributions on σ_t surfaces denotes those areas where that surface is shallower than 10 meters. The contour field within the shaded area (also shown by dashed lines) was taken from the maps of distributions at 10 meters (or 0/500 db dynamic height in the case of acceleration potential).

The following table of sigma-t to thermosteric anomaly (σ_t) conversions is provided to assist those who work with the latter.

Table

Equivalent values of δ_T for given values of σ_t.

σ_t	δ_T
24.0	392.0
24.2	372.9
24.4	353.8
24.6	334.8
24.8	315.7
25.0	296.7
25.2	277.6
25.4	258.6
25.6	239.6
25.8	220.6
26.0	201.6
26.2	182.6
26.4	163.6
26.6	144.6
26.8	125.6
27.0	106.7

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VERTICAL SECTIONS

SECTIONS ORTHOGONAL TO THE COASTLINE
T, S, σ_t, E, O_2, %O_2, and V

JAN

APR

JULY

OCT

SECTIONS OF STANDARD DEVIATION
T, S, σ_t, and O_2

SECTIONS PARALLEL TO THE COASTLINE
T, S, σ_t, E, O_2, and %O_2

JAN

APR

JULY

OCT

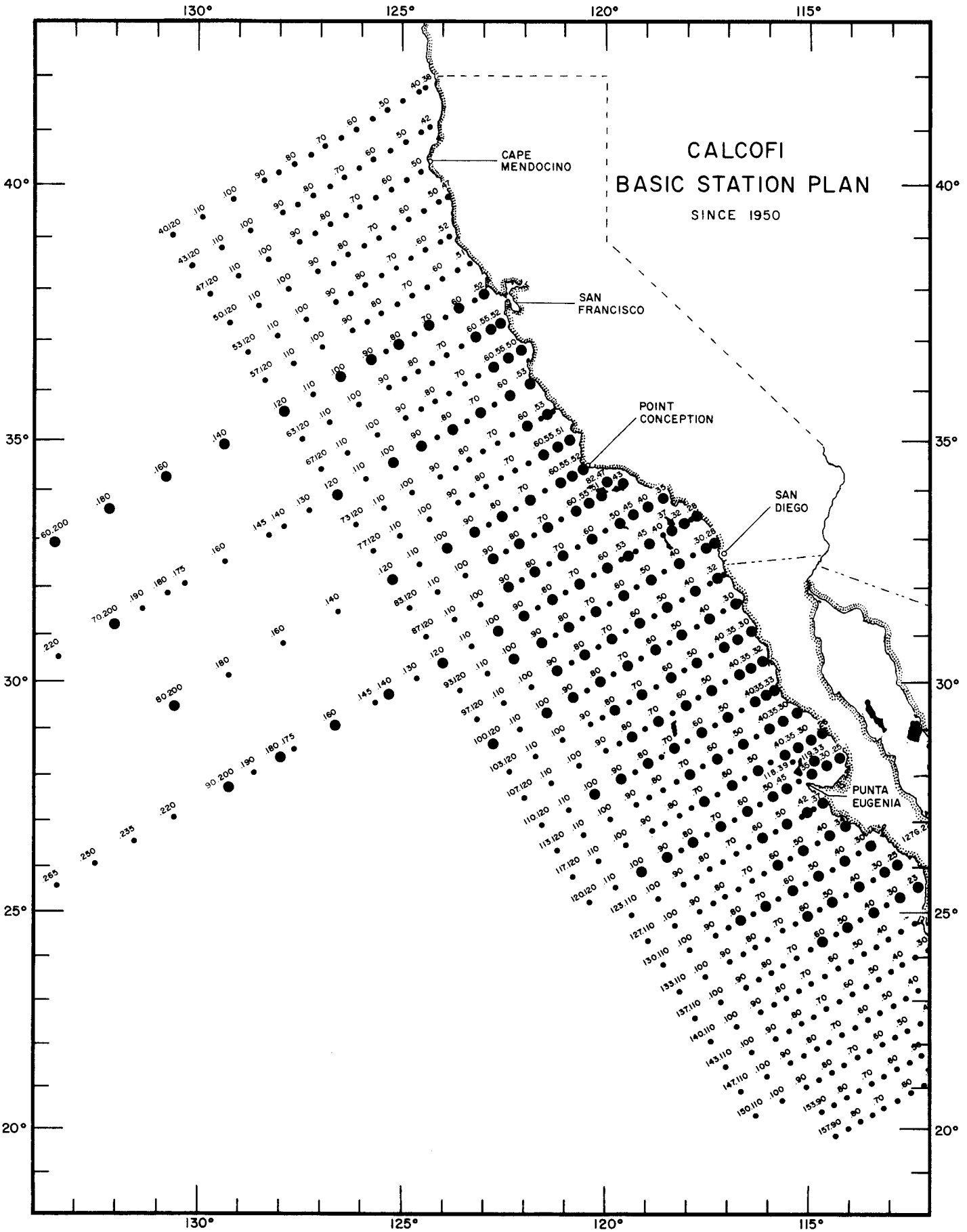
HORIZONTAL SECTIONS

10-METER LEVEL AND SURFACE DYNAMICS

σ_t = 25.0 SURFACE

σ_t = 25.8 SURFACE

σ_t = 26.6 SURFACE



CALCOFI

BASIC STATION PLAN

SINCE 1950

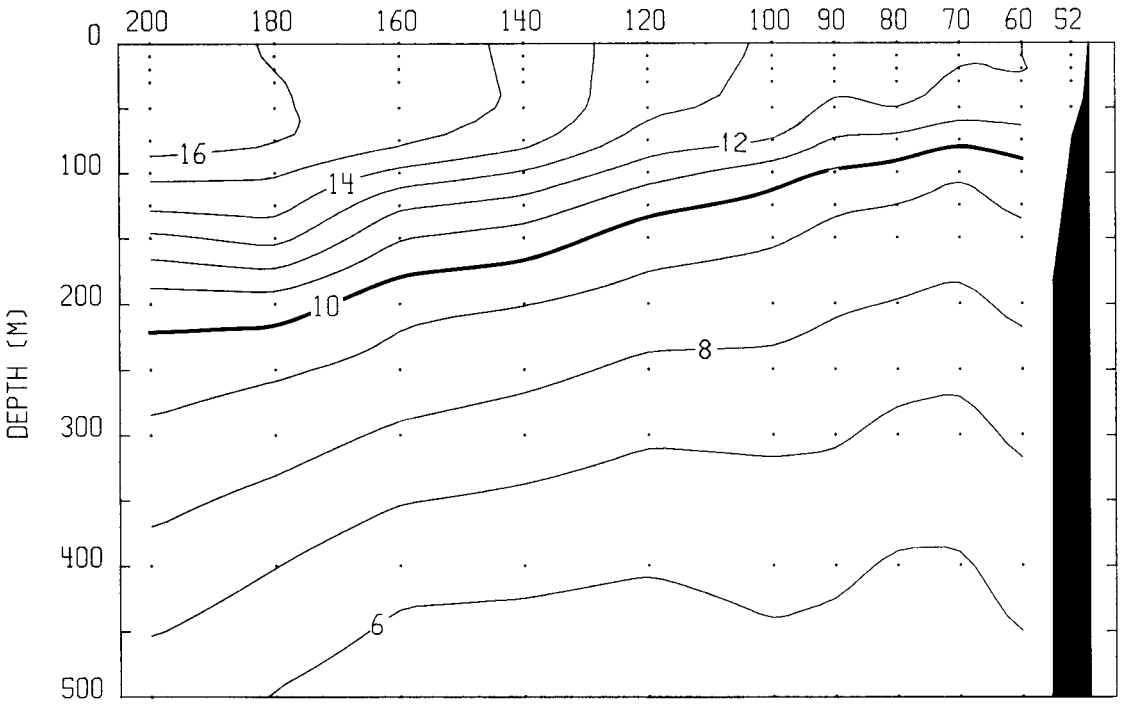
TEMPERATURE (DEG. C) LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	16.60	15.90	15.40	14.83	13.37	12.93	12.35	12.43	12.11	12.03	11.79
10	16.59	15.92	15.40	14.87	13.37	12.89	12.31	12.52	12.05	11.98	11.81
20	16.63	16.00	15.41	14.88	13.31	12.87	12.27	12.37	11.96	12.07	11.89
30	16.67	16.07	15.47	14.88	13.27	12.85	12.16	12.35	11.87	12.00	11.87
50	16.73	16.10	15.47	14.91	13.20	12.81	11.78	12.16	11.56	11.57	11.63
75	16.75	16.22	15.37	14.47	12.59	12.16	10.90	10.73	10.07	10.54	
100	15.22	15.10	13.72	12.88	11.42	10.38	9.79	9.67	9.04	9.68	
125	14.27	14.43	12.07	11.60	10.21	9.70	9.12	8.95	8.66	9.19	
150	12.67	13.38	11.01	10.55	9.45	9.12	8.72	8.56	8.43	8.82	
200	10.45	10.48	9.22	8.99	8.54	8.40	8.10	7.97	7.74	8.26	
250	9.40	9.12	8.64	8.29	7.79	7.79	7.63	7.29	7.16	7.65	
300	8.84	8.45	7.82	7.49	7.10	7.16	7.11	6.76	6.68	7.18	
400	7.67	7.01	6.27	6.20	6.06	6.24	6.18	5.88	5.88	6.37	
500	6.46	5.93	5.41	5.40	5.30	5.67	5.51	5.27	5.33	5.70	

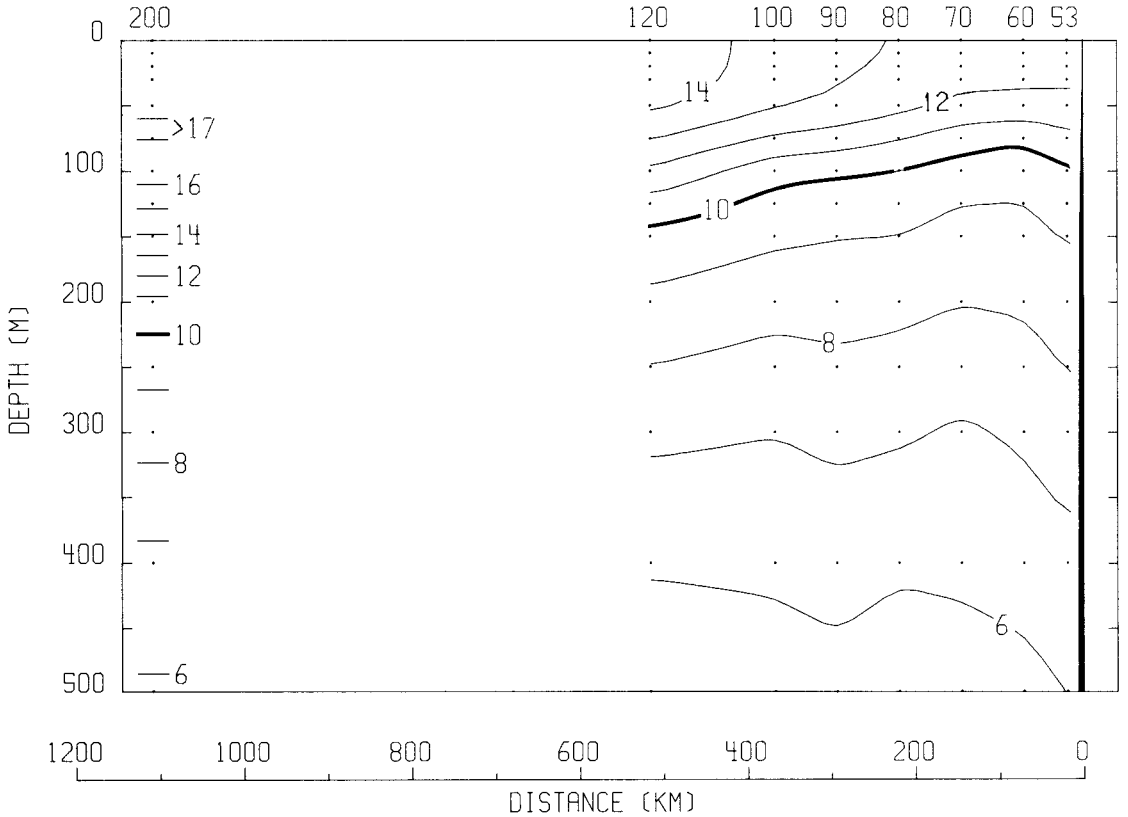
TEMPERATURE (DEG. C) LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	16.88	14.75	13.62	13.27	12.96	12.37	12.27	12.41
10	16.88	14.72	13.60	13.24	12.90	12.33	12.22	12.36
20	16.88	14.74	13.56	13.15	12.81	12.31	12.20	12.28
30	16.89	14.72	13.48	13.07	12.73	12.26	12.17	12.17
50	16.93	14.25	13.13	12.79	12.36	11.72	11.74	11.69
75	17.11	13.07	11.89	11.56	11.03	10.47	10.08	10.81
100	16.56	11.86	10.33	10.14	9.97	9.55	9.33	9.97
125	15.16	10.63	9.67	9.45	9.40	8.99	8.97	9.47
150	13.95	9.72	9.18	9.03	8.99	8.65	8.70	9.10
200	10.66	8.76	8.32	8.40	8.26	8.03	8.14	8.54
250	9.33	7.98	7.66	7.79	7.68	7.43	7.62	8.08
300	8.39	7.22	7.03	7.25	7.13	6.86	7.16	7.65
400	6.71	6.10	6.17	6.35	6.12	6.18	6.35	6.66
500	5.88	5.29	5.55	5.67	5.46	5.57	5.71	6.04

LINE 60



LINE 70



JANUARY
TEMPERATURE

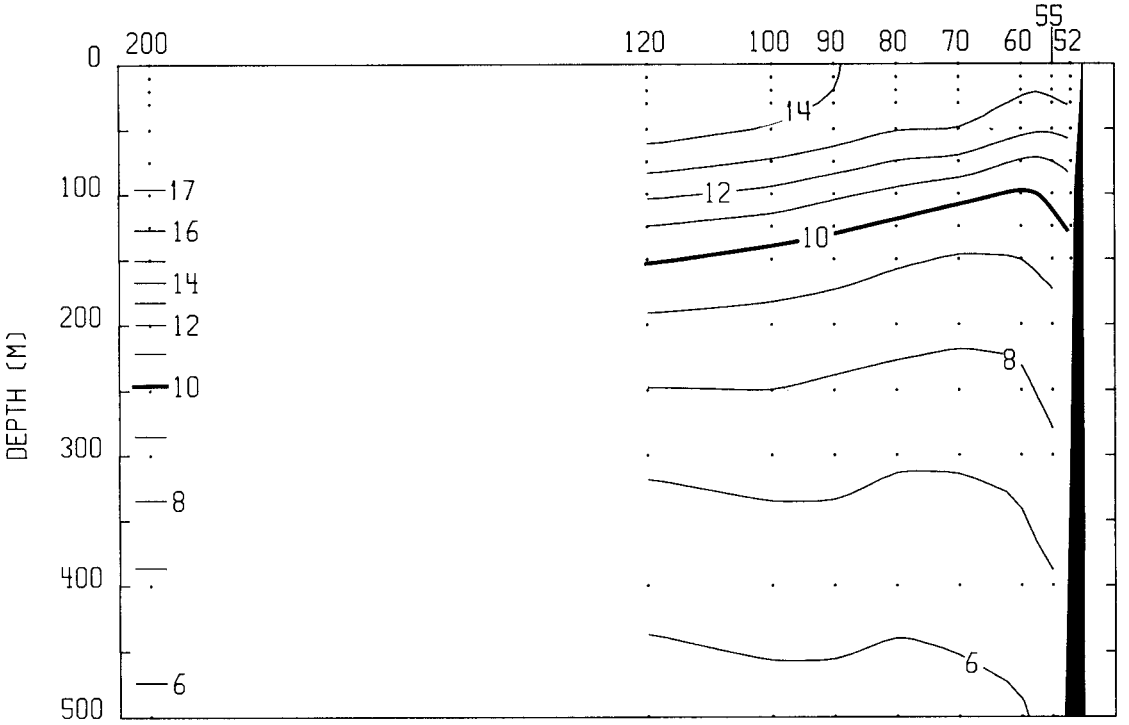
TEMPERATURE (DEG. C) LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	17.66	14.92	14.34	14.06	13.67	13.52	13.16	13.14	13.66
10	17.64	14.92	14.34	14.03	13.65	13.49	13.14	13.08	13.64
20	17.66	14.91	14.34	14.01	13.61	13.48	13.08	13.02	13.43
30	17.67	14.88	14.27	13.96	13.54	13.41	12.93	12.87	13.20
50	17.78	14.46	14.00	13.54	13.08	13.10	12.36	12.03	12.48
75	17.75	13.47	12.93	12.54	11.96	11.81	10.77	10.74	11.44
100	16.83	12.20	11.75	11.17	10.73	10.24	9.83	10.07	10.78
125	16.12	10.94	10.52	10.13	9.73	9.35	9.42	9.61	10.29
150	15.08	10.06	9.65	9.44	9.10	8.92	8.95	9.30	9.85
200	11.90	8.78	8.66	8.50	8.36	8.20	8.27	8.80	
250	9.81	7.96	8.00	7.85	7.70	7.64	7.73	8.37	
300	8.66	7.17	7.34	7.34	7.10	7.11	7.27	7.92	
400	6.74	6.23	6.39	6.38	6.24	6.28	6.47	6.98	
500	5.74	5.60	5.71	5.71	5.61	5.74	5.88	6.24	

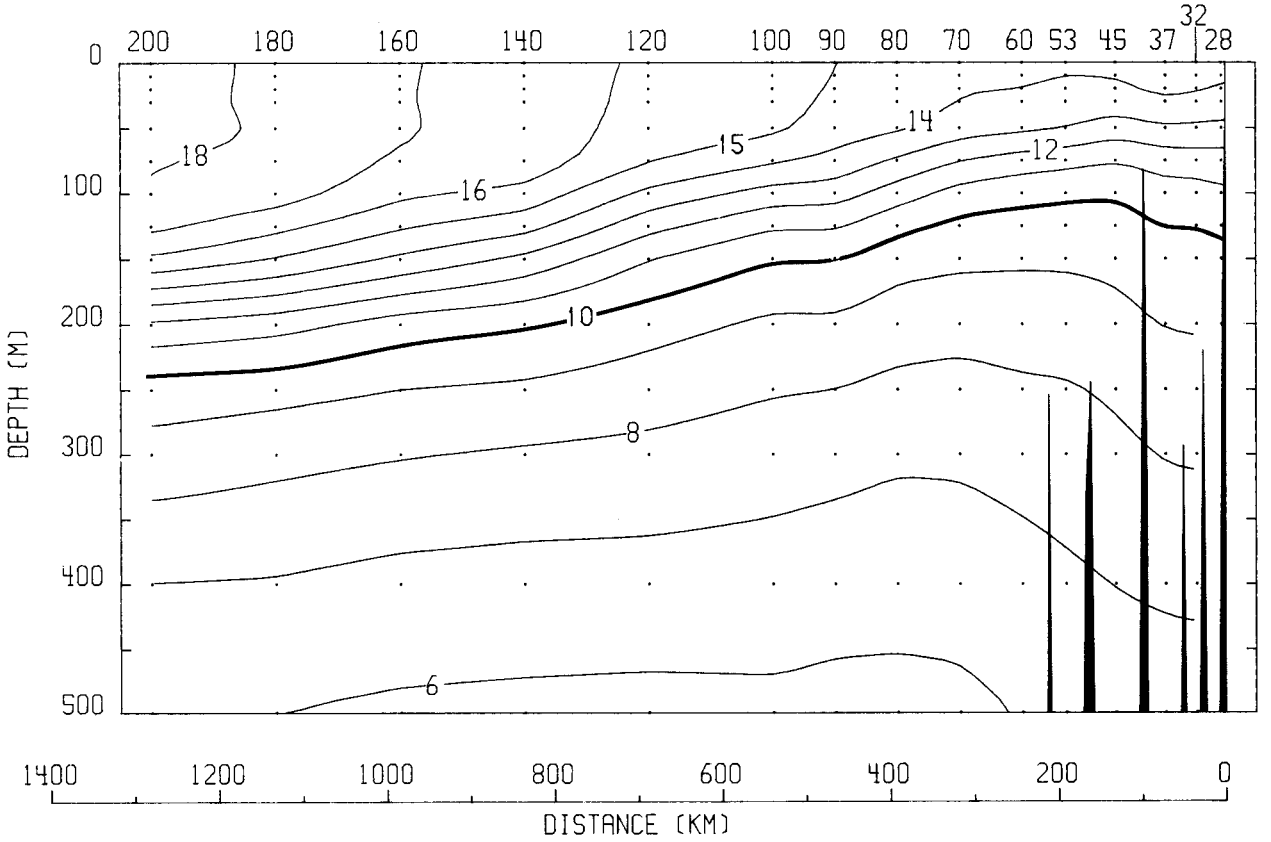
TEMPERATURE (DEG. C) LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	18.22	17.90	17.15	16.39	15.91	15.50	15.02	14.75	14.22	14.19	14.09	14.17	14.39	14.37	14.27
10	18.21	17.89	17.12	16.34	15.86	15.47	14.96	14.72	14.14	14.10	14.00	14.05	14.32	14.24	14.05
20	18.21	17.89	17.11	16.33	15.86	15.44	14.90	14.67	14.06	13.99	13.89	13.88	14.19	14.12	13.93
30	18.19	17.88	17.10	16.34	15.85	15.38	14.83	14.57	13.98	13.89	13.75	13.55	13.99	13.88	13.68
50	18.18	17.95	17.13	16.51	15.67	15.28	14.52	14.24	13.53	13.31	13.02	12.49	12.87	12.79	12.69
75	18.03	17.90	16.87	16.71	15.17	14.21	13.73	12.85	11.99	11.51	11.26	11.00	11.39	11.51	11.55
100	17.98	17.54	16.24	15.72	13.74	12.58	12.48	11.51	10.60	10.27	10.20	10.03	10.62	10.56	10.87
125	17.35	16.29	15.16	14.42	12.30	11.09	11.13	10.22	9.69	9.63	9.55	9.58	10.01	9.97	10.28
150	15.84	14.97	13.81	12.71	11.00	10.02	10.04	9.35	9.18	9.12	9.13	9.24	9.59	9.57	9.76
200	11.74	11.35	10.44	10.07	9.37	8.78	8.81	8.44	8.32	8.42	8.48	8.66	9.04	9.06	9.19
250	9.55	9.31	8.96	8.80	8.44	8.08	7.99	7.75	7.68	7.86	7.91	8.15	8.53	8.65	
300	8.56	8.27	8.05	7.87	7.73	7.46	7.34	7.14	7.17	7.36	7.51	7.74	8.04	8.12	
400	6.97	6.92	6.66	6.57	6.56	6.50	6.36	6.31	6.35	6.60	6.82	7.02	7.17	7.22	
500	6.00	5.98	5.83	5.78	5.73	5.79	5.73	5.73	5.78	6.04	6.22	6.37	6.40	6.48	

LINE 80



LINE 90



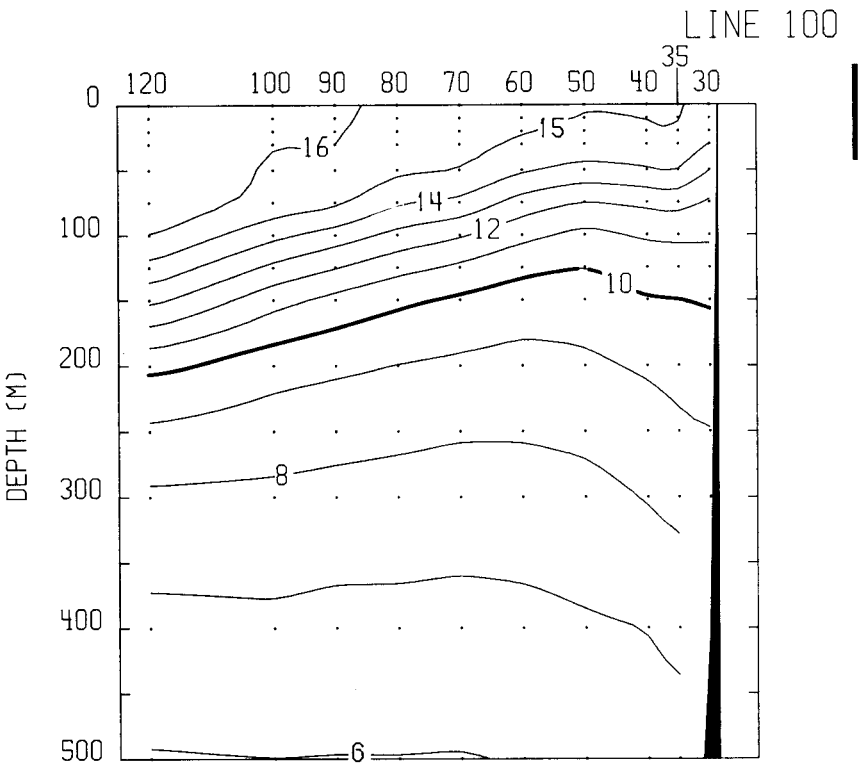
JANUARY
TEMPERATURE

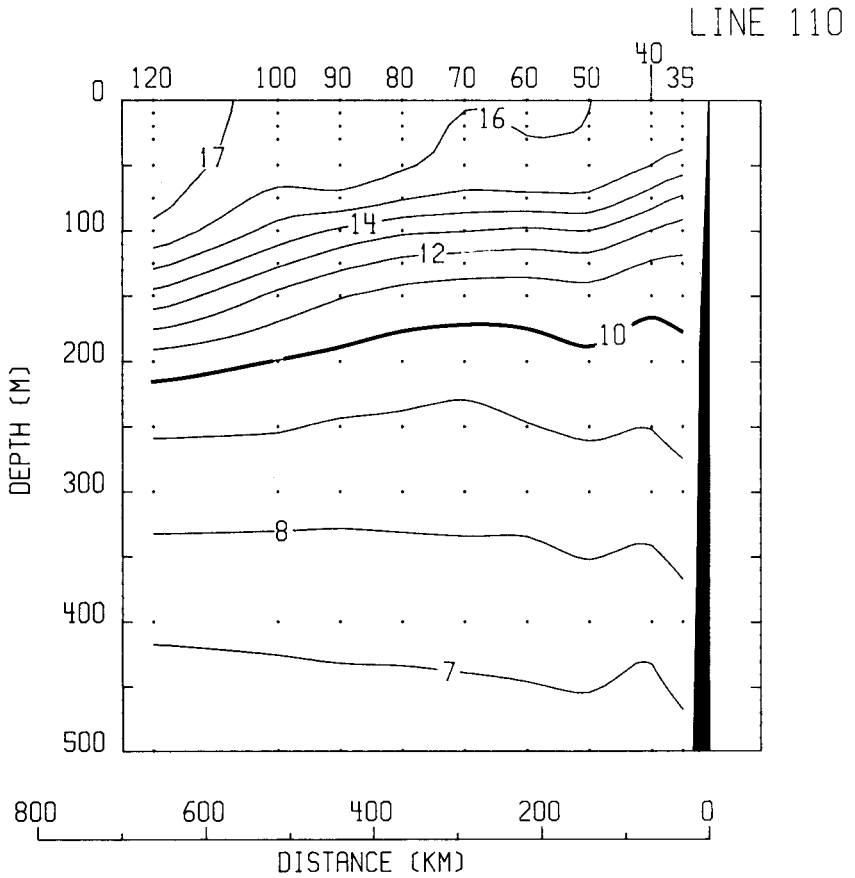
TEMPERATURE (DEG. C) LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	17.06	16.10	16.25	15.75	15.61	15.34	15.07	15.10	15.21	14.61
10	16.95	16.13	16.15	15.63	15.56	15.23	14.95	15.01	15.12	14.49
20	16.93	16.07	16.09	15.57	15.46	15.08	14.81	14.91	15.06	14.24
30	16.92	16.02	16.04	15.50	15.35	14.85	14.53	14.73	14.96	13.84
50	16.97	15.84	15.90	15.22	15.07	14.19	13.74	13.95	14.28	12.78
75	16.95	15.70	15.36	14.13	13.86	12.53	11.84	12.18	12.41	11.72
100	16.08	14.25	13.52	12.69	12.09	11.26	10.71	11.11	11.20	11.13
125	14.75	12.73	12.02	11.28	10.78	10.18	9.93	10.46	10.44	10.59
150	13.28	11.32	10.65	10.14	9.80	9.47	9.49	9.97	9.95	10.12
200	10.20	9.34	9.17	8.95	8.81	8.66	8.80	9.14	9.32	9.43
250	8.82	8.49	8.34	8.23	8.09	8.08	8.20	8.50	8.85	9.00
300	7.83	7.77	7.67	7.59	7.53	7.59	7.70	8.05	8.31	8.45
400	6.69	6.79	6.66	6.70	6.64	6.69	6.88	7.01	7.36	
500	5.93	5.97	5.96	5.96	5.95	6.02	6.15	6.32	6.50	

TEMPERATURE (DEG. C) LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	17.50	16.73	16.84	16.44	16.05	16.11	16.02	15.78	15.72
10	17.46	16.73	16.85	16.41	15.96	16.07	16.01	15.72	15.68
20	17.44	16.69	16.82	16.39	15.85	16.05	16.01	15.68	15.48
30	17.41	16.66	16.79	16.36	15.79	16.01	15.99	15.59	15.27
50	17.45	16.54	16.68	16.19	15.66	15.84	15.83	15.13	14.41
75	17.44	15.64	15.95	15.25	14.79	14.89	14.97	13.58	12.62
100	16.88	14.67	13.75	13.08	13.01	12.68	13.02	11.87	11.51
125	15.37	13.16	12.24	11.67	11.45	11.40	11.56	10.81	10.77
150	13.75	11.67	10.98	10.61	10.45	10.42	10.68	10.16	10.37
200	10.41	9.91	9.75	9.43	9.38	9.52	9.86	9.44	9.79
250	9.13	9.07	8.87	8.86	8.70	8.97	9.15	8.96	9.32
300	8.41	8.35	8.28	8.32	8.35	8.32	8.58	8.47	8.77
400	7.15	7.20	7.28	7.29	7.34	7.35	7.53	7.17	7.74
500	6.25	6.40	6.41	6.42	6.47	6.58	6.60	6.39	6.74





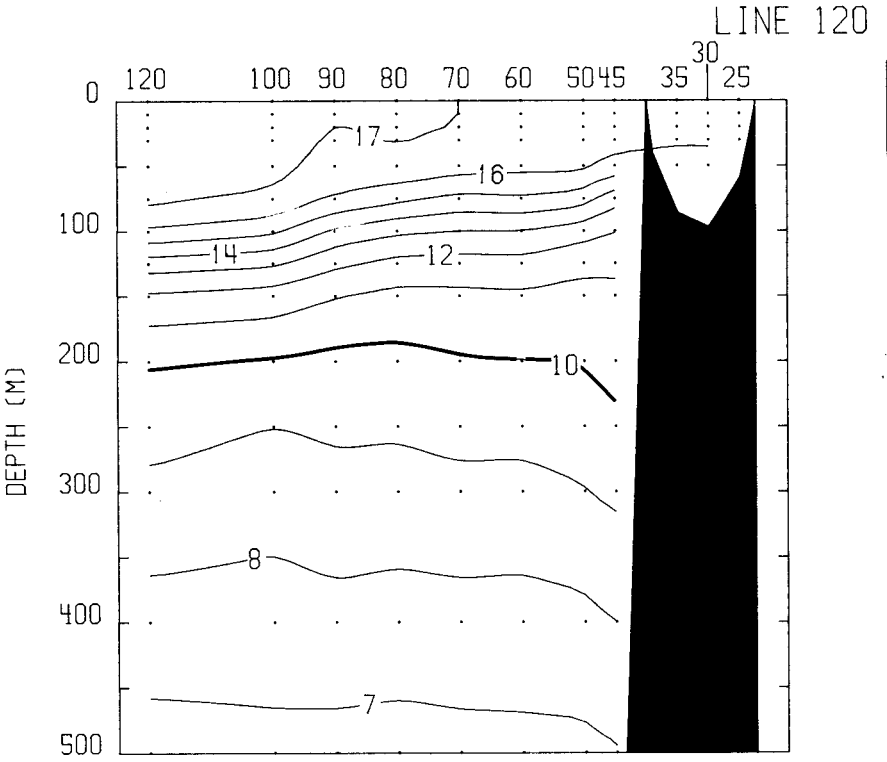
JANUARY
TEMPERATURE

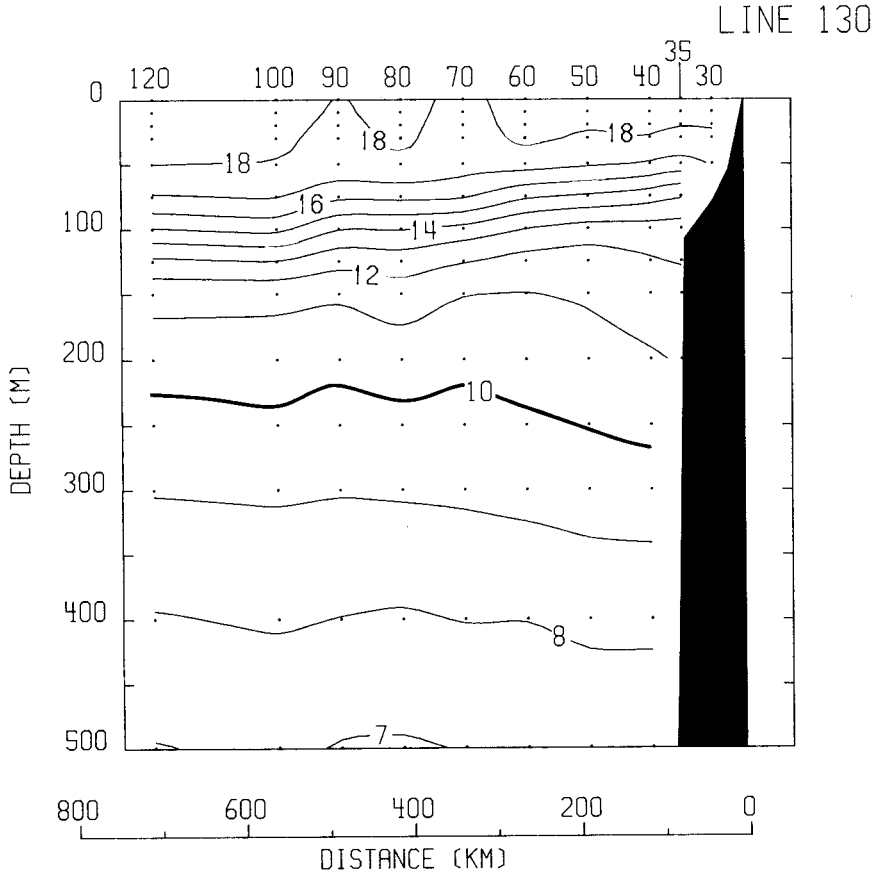
TEMPERATURE (DEG. C) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	17.56	17.35	17.03	17.13	16.99	16.78	16.85	16.67	16.30	16.30	16.35
10	17.51	17.32	17.00	17.11	17.03	16.77	16.81	16.65	16.29	16.25	16.29
20	17.51	17.31	16.98	17.09	16.97	16.75	16.78	16.55	16.24	16.19	16.18
30	17.53	17.30	16.92	17.06	16.94	16.71	16.72	16.44	16.17	16.11	15.93
50	17.52	17.29	16.67	16.76	16.52	16.30	16.40	15.57	15.55	15.74	
75	17.37	16.87	16.00	15.34	14.69	14.96	14.55	13.16			
100	15.86	15.26	13.72	13.12	12.93	12.92	12.41	11.90			
125	13.45	13.07	12.15	11.64	11.58	11.68	11.26	11.16			
150	11.77	11.54	11.00	10.71	10.77	10.84	10.65	10.82			
200	10.07	9.90	9.69	9.67	9.94	9.97	10.01	10.36			
250	9.38	8.98	9.16	9.11	9.30	9.32	9.53	9.86			
300	8.75	8.43	8.69	8.64	8.75	8.68	8.94	9.23			
400	7.58	7.52	7.67	7.54	7.62	7.60	7.72	8.05			
500	6.57	6.73	6.66	6.62	6.69	6.73	6.75	6.96			

TEMPERATURE (DEG. C) LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	18.30	18.38	17.94	18.29	17.82	18.35	18.18	18.32	18.22	18.19
10	18.31	18.32	17.92	18.26	17.70	18.28	18.13	18.27	18.16	18.16
20	18.27	18.23	17.81	18.20	17.66	18.27	18.05	18.20	18.03	18.12
30	18.23	18.15	17.74	18.16	17.61	18.24	17.95	18.11	17.82	17.96
50	18.09	18.03	17.66	18.03	17.36	17.60	17.32	17.07	16.58	16.98
75	17.02	17.26	16.24	16.34	16.44	15.09	14.86	14.44	13.82	
100	14.96	15.39	13.88	14.03	13.60	12.91	12.45	12.56	12.60	
125	12.62	12.89	12.23	12.48	11.99	11.58	11.52	11.89	12.04	
150	11.37	11.36	11.09	11.62	10.97	10.93	11.11	11.47	11.83	
200	10.34	10.27	10.16	10.45	10.08	10.43	10.63	10.89	11.04	
250	9.69	9.92	9.68	9.78	9.80	9.83	10.04	10.30		
300	9.06	9.14	9.06	9.12	9.17	9.33	9.46	9.52		
400	7.92	8.12	7.98	7.87	8.05	8.00	8.26	8.28		
500	6.93	7.16	6.91	6.89	7.00	7.02	7.20	7.14		





JANUARY
TEMPERATURE

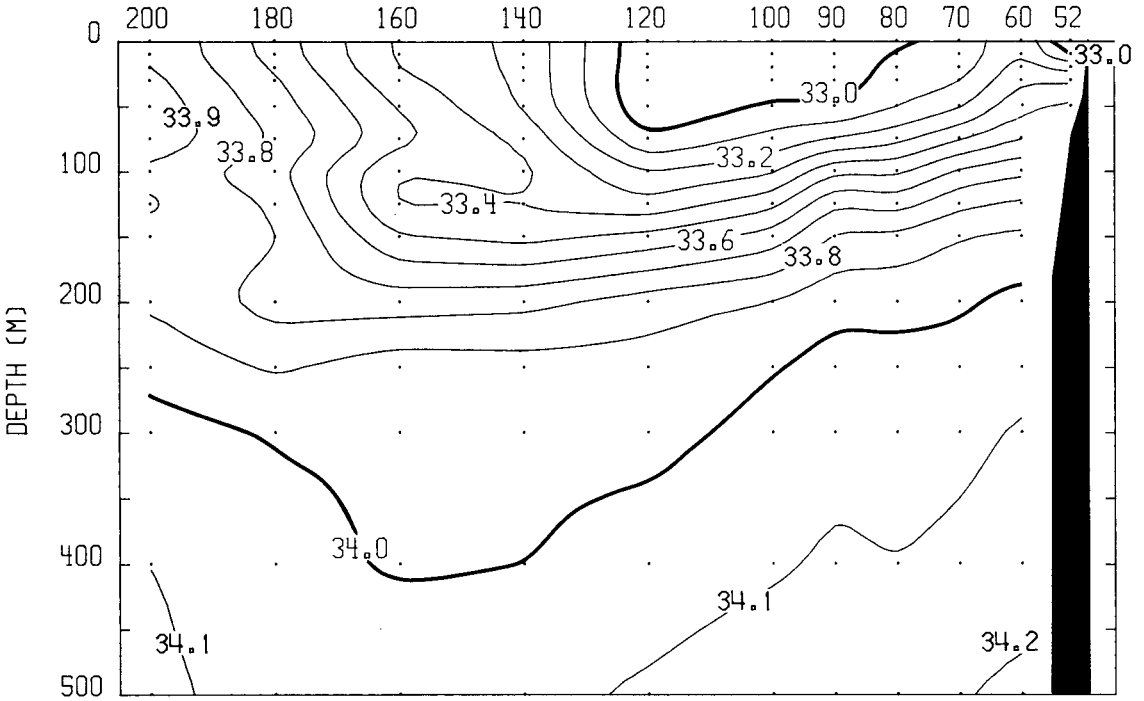
SALINITY (PPT) LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	33.90	33.66	33.38	33.27	32.93	32.88	32.94	33.01	33.02	33.20	32.85
10	33.90	33.66	33.39	33.28	32.92	32.92	32.95	32.99	33.02	33.20	32.98
20	33.91	33.69	33.39	33.27	32.91	32.91	32.95	33.03	33.05	33.25	33.18
30	33.93	33.72	33.43	33.28	32.91	32.93	32.95	33.04	33.09	33.29	33.28
50	33.97	33.75	33.49	33.29	32.92	33.02	33.00	33.09	33.17	33.37	33.44
75	33.98	33.80	33.54	33.38	33.00	33.13	33.19	33.26	33.39	33.50	
100	33.87	33.73	33.40	33.43	33.21	33.28	33.49	33.48	33.62	33.68	
125	33.93	33.79	33.38	33.38	33.32	33.47	33.70	33.66	33.78	33.82	
150	33.86	33.81	33.51	33.46	33.54	33.64	33.82	33.83	33.90	33.92	
200	33.89	33.76	33.75	33.77	33.85	33.91	33.97	33.98	33.98	34.03	
250	33.97	33.89	33.96	33.94	33.95	33.99	34.04	34.02	34.03	34.08	
300	34.04	34.00	33.99	33.97	33.97	34.03	34.07	34.05	34.07	34.11	
400	34.10	34.03	33.99	34.00	34.05	34.09	34.12	34.10	34.13	34.17	
500	34.12	34.06	34.06	34.07	34.11	34.17	34.18	34.17	34.20	34.22	

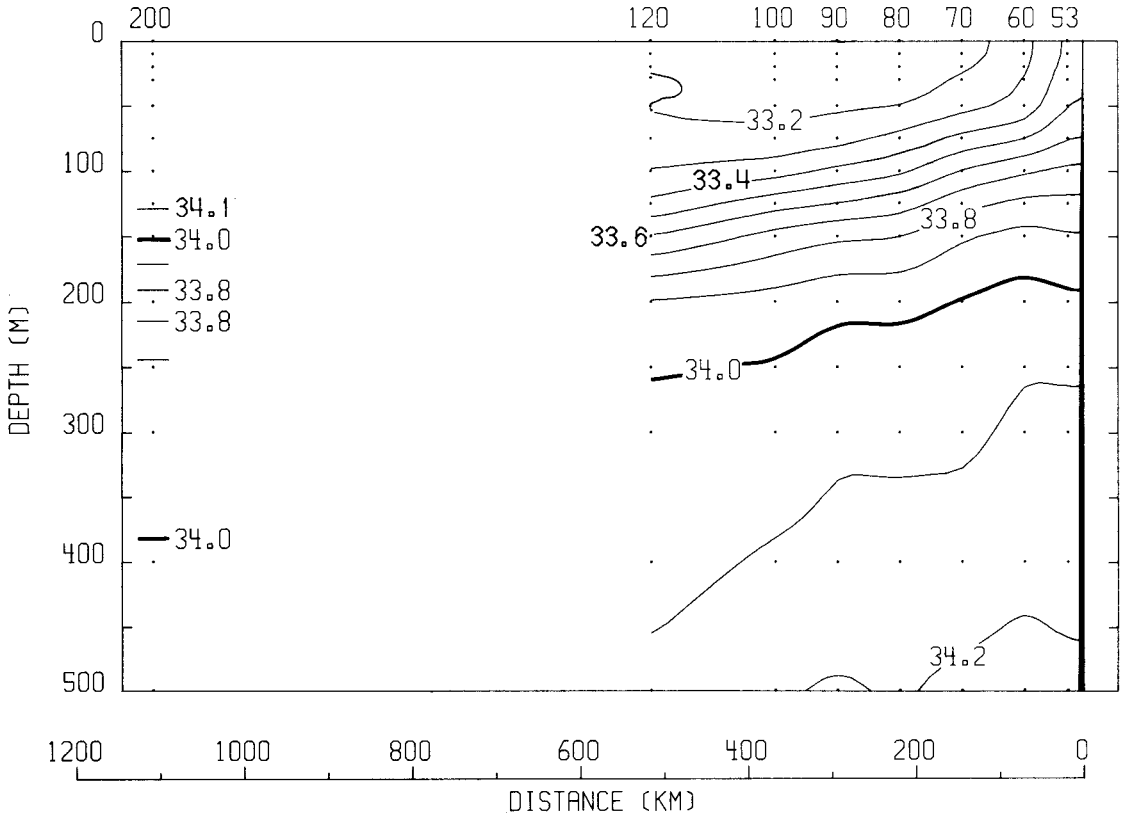
SALINITY (PPT) LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	34.11	33.16	33.11	33.10	33.10	33.15	33.26	33.44
10	34.11	33.16	33.10	33.10	33.10	33.15	33.26	33.44
20	34.11	33.20	33.13	33.12	33.13	33.18	33.27	33.45
30	34.11	33.22	33.15	33.13	33.14	33.22	33.30	33.47
50	34.12	33.19	33.17	33.19	33.19	33.26	33.32	33.52
75	34.21	33.22	33.23	33.25	33.33	33.43	33.49	33.60
100	34.15	33.30	33.35	33.42	33.47	33.61	33.69	33.73
125	34.12	33.41	33.56	33.60	33.65	33.77	33.83	33.83
150	34.01	33.61	33.74	33.79	33.80	33.89	33.94	33.91
200	33.75	33.92	33.94	33.98	33.97	34.01	34.04	34.02
250	33.92	34.00	34.01	34.04	34.05	34.05	34.09	34.09
300	33.99	34.01	34.03	34.08	34.08	34.08	34.12	34.13
400	34.00	34.06	34.12	34.13	34.14	34.15	34.18	34.16
500	34.10	34.13	34.19	34.21	34.19	34.22	34.23	34.22

LINE 60



LINE 70



JANUARY
SALINITY

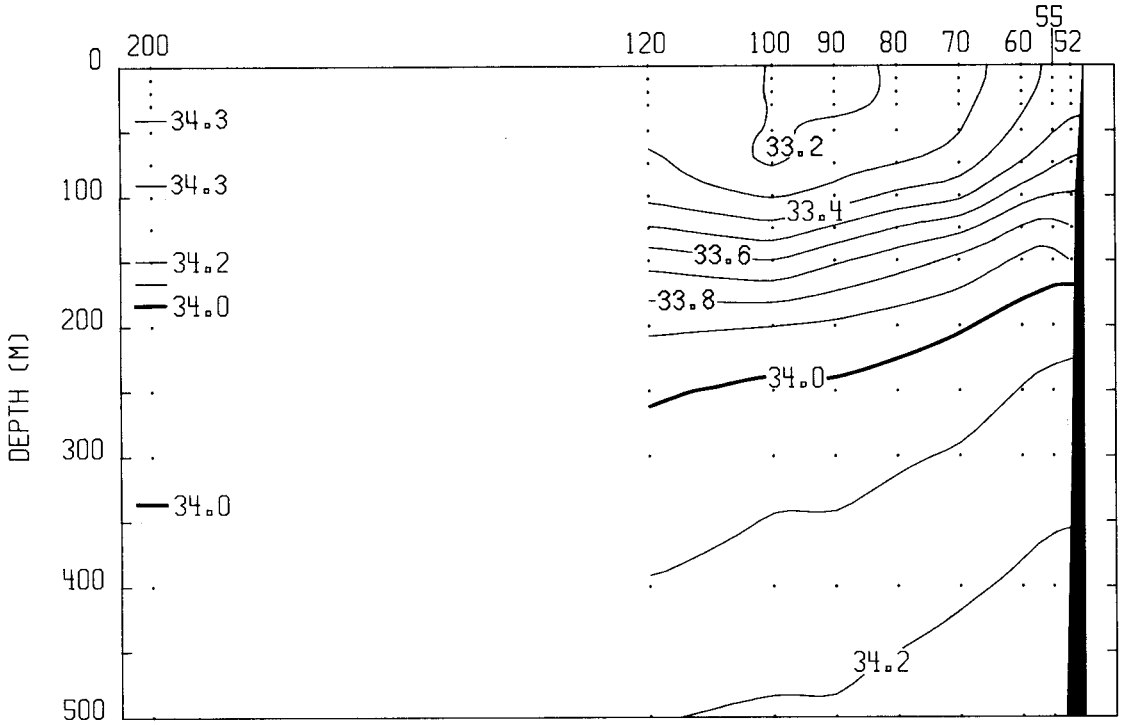
SALINITY (PPT) LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	34.22	33.28	33.20	33.18	33.21	33.25	33.36	33.42	33.47
10	34.21	33.27	33.20	33.17	33.21	33.25	33.36	33.43	33.47
20	34.24	33.29	33.19	33.17	33.21	33.26	33.37	33.44	33.47
30	34.25	33.30	33.19	33.18	33.21	33.27	33.39	33.45	33.47
50	34.34	33.28	33.19	33.22	33.22	33.29	33.42	33.48	33.54
75	34.37	33.33	33.17	33.26	33.29	33.34	33.49	33.58	33.62
100	34.26	33.37	33.29	33.33	33.42	33.46	33.66	33.71	33.71
125	34.29	33.51	33.42	33.52	33.61	33.67	33.82	33.85	33.79
150	34.20	33.67	33.60	33.69	33.76	33.83	33.92	33.96	33.88
200	33.90	33.88	33.91	33.92	33.96	33.99	34.05	34.07	
250	33.94	33.99	34.03	34.02	34.04	34.06	34.10	34.13	
300	33.99	34.02	34.07	34.07	34.09	34.11	34.16	34.17	
400	34.02	34.11	34.14	34.14	34.16	34.19	34.21	34.22	
500	34.10	34.20	34.21	34.21	34.24	34.26	34.27	34.26	

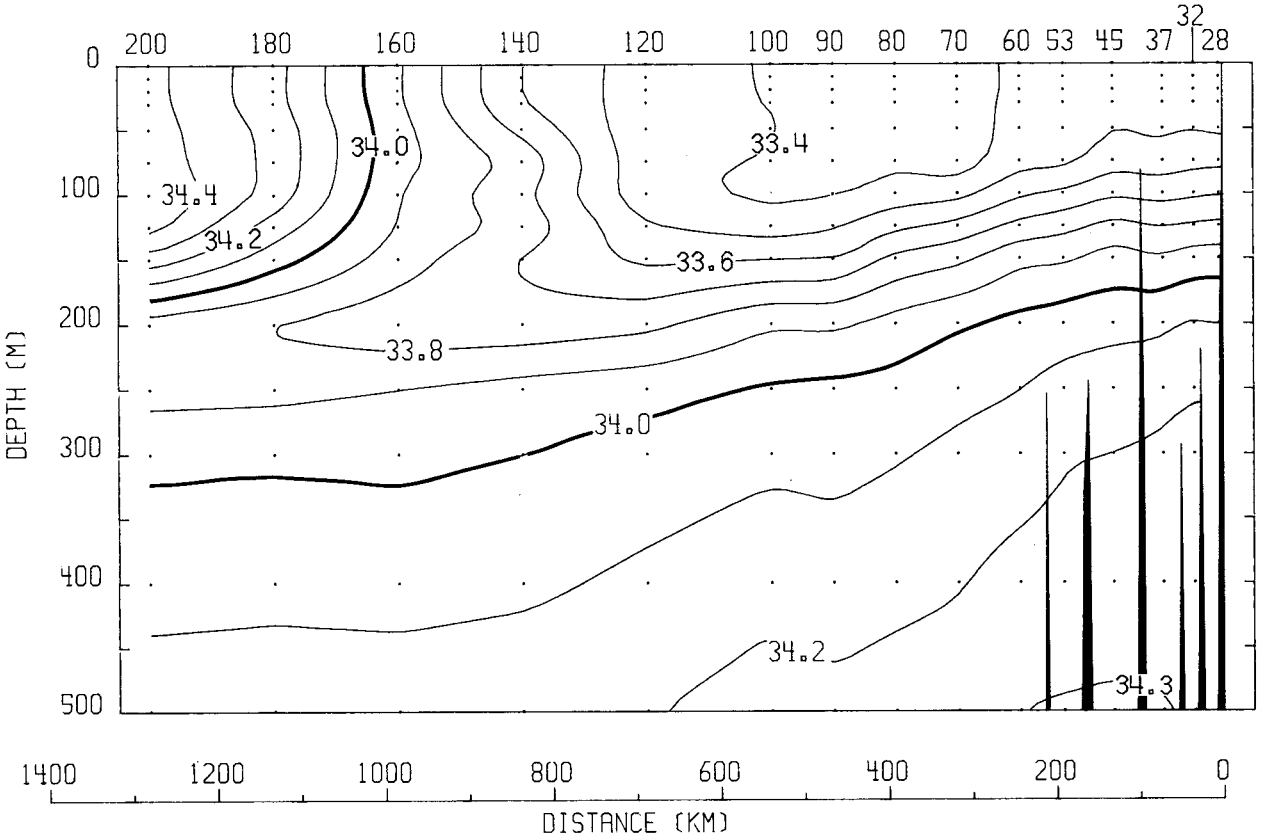
SALINITY (PPT) LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	34.43	34.24	33.91	33.60	33.45	33.39	33.32	33.34	33.32	33.44	33.43	33.47	33.49	33.50	33.45
10	34.43	34.23	33.91	33.60	33.45	33.39	33.32	33.33	33.33	33.43	33.43	33.49	33.49	33.50	33.45
20	34.43	34.23	33.91	33.60	33.45	33.39	33.32	33.34	33.33	33.43	33.43	33.48	33.49	33.50	33.46
30	34.44	34.24	33.92	33.60	33.45	33.40	33.33	33.34	33.35	33.44	33.43	33.49	33.49	33.50	33.46
50	34.45	34.27	33.94	33.67	33.42	33.42	33.32	33.37	33.36	33.43	33.42	33.50	33.47	33.49	33.47
75	34.45	34.28	33.94	33.78	33.43	33.39	33.32	33.38	33.33	33.46	33.46	33.56	33.54	33.57	33.57
100	34.50	34.27	33.90	33.72	33.43	33.37	33.39	33.44	33.46	33.58	33.62	33.68	33.66	33.68	33.70
125	34.45	34.15	33.89	33.77	33.51	33.44	33.48	33.57	33.63	33.73	33.77	33.84	33.79	33.81	33.82
150	34.26	34.04	33.85	33.69	33.57	33.60	33.60	33.73	33.77	33.88	33.89	33.95	33.91	33.95	33.95
200	33.84	33.79	33.73	33.74	33.77	33.89	33.88	33.94	33.99	34.03	34.05	34.07	34.07	34.12	34.10
250	33.86	33.87	33.90	33.94	33.97	34.01	34.02	34.03	34.07	34.10	34.14	34.15	34.17	34.19	
300	33.98	33.99	33.98	34.00	34.04	34.08	34.07	34.09	34.12	34.15	34.19	34.20	34.21	34.23	
400	34.06	34.07	34.06	34.08	34.12	34.17	34.15	34.17	34.19	34.24	34.25	34.26	34.26	34.27	
500	34.15	34.16	34.16	34.18	34.19	34.25	34.23	34.25	34.26	34.30	34.31	34.31	34.31	34.29	

LINE 80



LINE 90



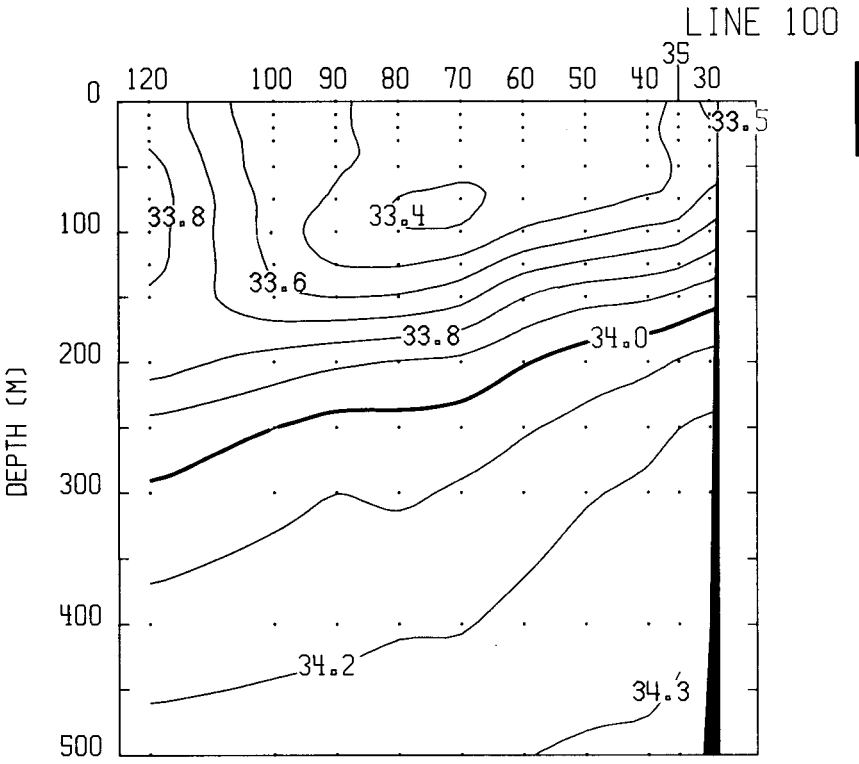
JANUARY
SALINITY

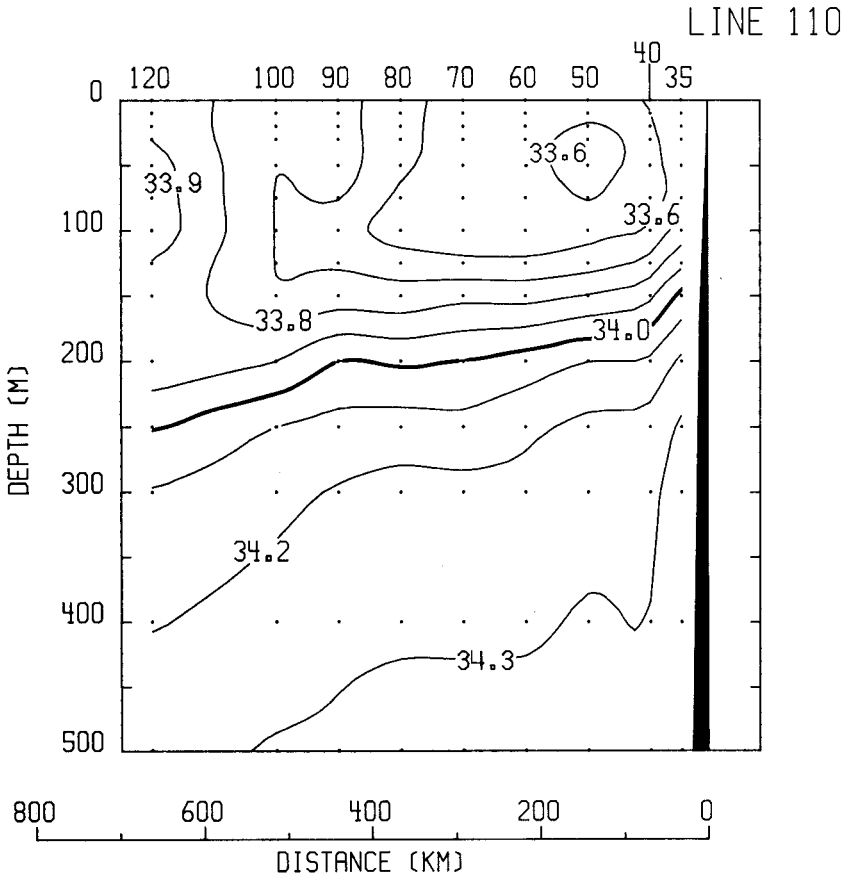
SALINITY (PPT) LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	33.79	33.49	33.52	33.43	33.44	33.46	33.49	33.47	33.52	33.49
10	33.78	33.51	33.52	33.43	33.44	33.46	33.50	33.48	33.52	33.49
20	33.78	33.53	33.52	33.44	33.43	33.45	33.49	33.49	33.52	33.50
30	33.80	33.54	33.52	33.46	33.43	33.45	33.48	33.48	33.52	33.51
50	33.84	33.52	33.51	33.48	33.41	33.42	33.47	33.47	33.50	33.55
75	33.86	33.56	33.50	33.37	33.38	33.41	33.45	33.49	33.50	33.65
100	33.85	33.56	33.42	33.40	33.39	33.51	33.57	33.63	33.64	33.74
125	33.84	33.58	33.49	33.48	33.54	33.66	33.72	33.75	33.77	33.85
150	33.79	33.61	33.59	33.61	33.66	33.81	33.87	33.89	33.93	33.97
200	33.75	33.85	33.89	33.92	33.93	34.00	34.06	34.08	34.11	34.14
250	33.93	34.00	34.04	34.03	34.04	34.09	34.13	34.17	34.20	34.22
300	34.01	34.07	34.10	34.08	34.11	34.15	34.19	34.22	34.25	34.25
400	34.14	34.17	34.17	34.19	34.19	34.23	34.26	34.26	34.29	
500	34.24	34.24	34.26	34.26	34.27	34.30	34.31	34.32	34.32	

SALINITY (PPT) LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	33.89	33.71	33.75	33.63	33.56	33.58	33.60	33.60	33.65
10	33.89	33.70	33.73	33.63	33.55	33.58	33.59	33.59	33.65
20	33.89	33.70	33.74	33.63	33.55	33.58	33.61	33.59	33.63
30	33.90	33.70	33.75	33.63	33.55	33.58	33.62	33.59	33.62
50	33.95	33.69	33.75	33.62	33.56	33.58	33.64	33.58	33.63
75	33.96	33.68	33.72	33.57	33.52	33.55	33.62	33.53	33.65
100	33.97	33.69	33.63	33.52	33.52	33.48	33.56	33.59	33.77
125	33.90	33.69	33.69	33.66	33.62	33.62	33.65	33.72	33.90
150	33.87	33.70	33.75	33.73	33.78	33.76	33.81	33.86	34.06
200	33.82	33.89	34.02	33.99	34.01	34.05	34.11	34.10	34.25
250	33.99	34.11	34.14	34.15	34.13	34.18	34.23	34.23	34.33
300	34.11	34.17	34.21	34.24	34.23	34.23	34.28	34.27	34.35
400	34.19	34.24	34.28	34.29	34.29	34.29	34.31	34.29	34.36
500	34.27	34.31	34.31	34.33	34.33	34.34	34.33	34.33	34.37





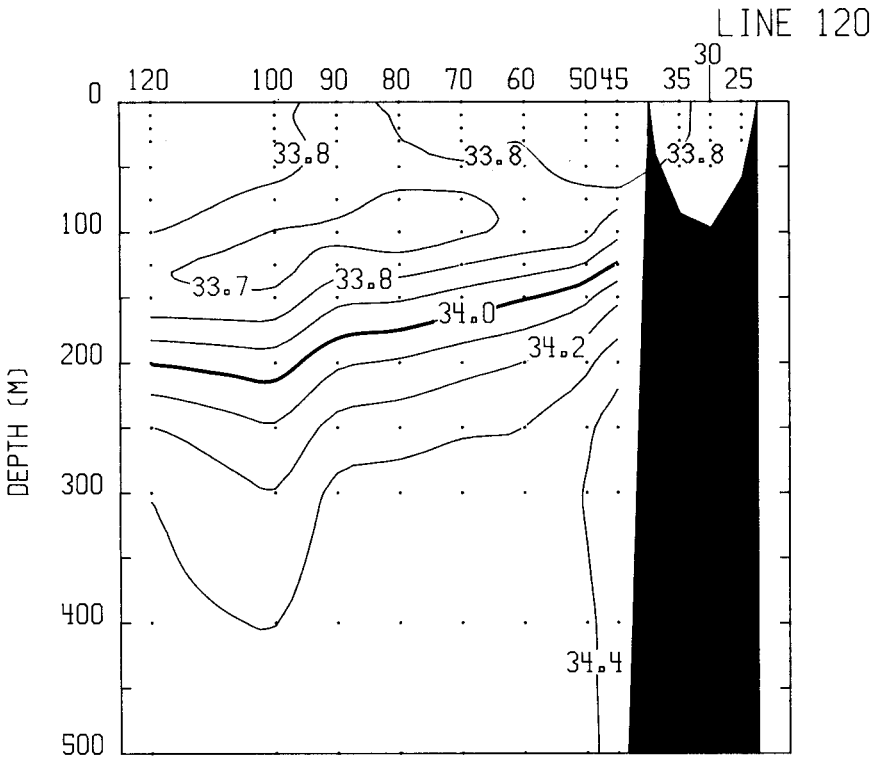
JANUARY
SALINITY

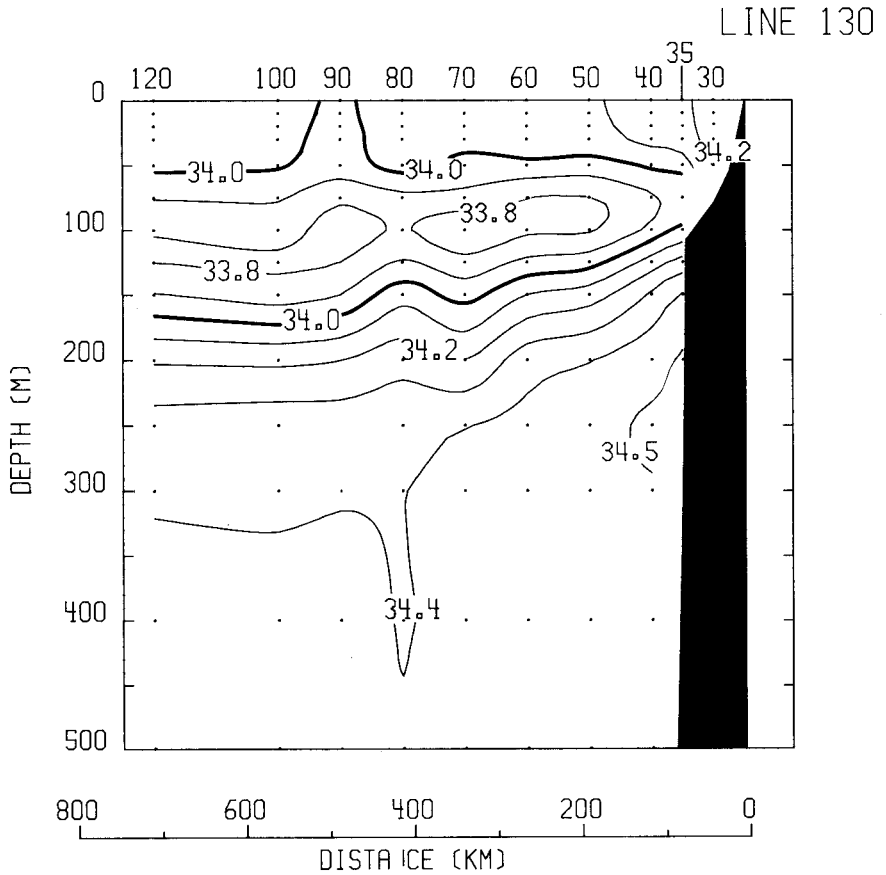
SALINITY (PPT) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	33.82	33.82	33.79	33.82	33.82	33.80	33.84	33.90	33.82	33.77	33.77
10	33.82	33.81	33.76	33.80	33.81	33.80	33.83	33.90	33.82	33.77	33.75
20	33.83	33.82	33.78	33.80	33.82	33.80	33.84	33.90	33.82	33.76	33.76
30	33.84	33.82	33.78	33.80	33.82	33.80	33.85	33.90	33.82	33.78	33.73
50	33.86	33.84	33.76	33.77	33.81	33.78	33.86	33.86	33.76	33.76	
75	33.87	33.76	33.75	33.66	33.66	33.74	33.76	33.76			
100	33.81	33.69	33.67	33.62	33.67	33.71	33.74	33.89			
125	33.70	33.64	33.76	33.74	33.80	33.85	33.89	34.04			
150	33.72	33.71	33.88	33.88	33.95	33.99	34.07	34.20			
200	34.00	33.94	34.09	34.12	34.17	34.21	34.27	34.39			
250	34.21	34.10	34.25	34.26	34.29	34.30	34.38	34.46			
300	34.30	34.19	34.34	34.34	34.35	34.33	34.41	34.46			
400	34.33	34.29	34.38	34.36	34.37	34.35	34.38	34.44			
500	34.34	34.38	34.39	34.38	34.38	34.38	34.39	34.41			

SALINITY (PPT) LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	34.07	34.06	33.97	34.09	33.99	34.10	34.08	34.17	34.16	34.28
10	34.06	34.06	33.97	34.08	33.98	34.08	34.08	34.16	34.15	34.27
20	34.06	34.05	33.95	34.08	34.00	34.09	34.06	34.16	34.15	34.27
30	34.06	34.04	33.94	34.08	33.99	34.09	34.04	34.15	34.14	34.26
50	34.03	34.02	33.95	34.07	33.98	33.98	33.96	34.02	34.03	34.24
75	33.90	33.91	33.80	33.86	33.87	33.78	33.76	33.87	33.89	
100	33.80	33.85	33.74	33.80	33.69	33.77	33.76	33.90	34.04	
125	33.78	33.77	33.79	33.92	33.82	33.93	33.95	34.15	34.26	
150	33.91	33.84	33.89	34.09	33.95	34.11	34.15	34.32	34.44	
200	34.20	34.18	34.20	34.28	34.18	34.37	34.40	34.47	34.53	
250	34.35	34.37	34.36	34.37	34.40	34.43	34.47	34.52		
300	34.40	34.39	34.40	34.40	34.43	34.47	34.48	34.49		
400	34.42	34.43	34.43	34.39	34.42	34.44	34.47	34.47		
500	34.43	34.43	34.41	34.40	34.43	34.43	34.46	34.44		





JANUARY
SALINITY

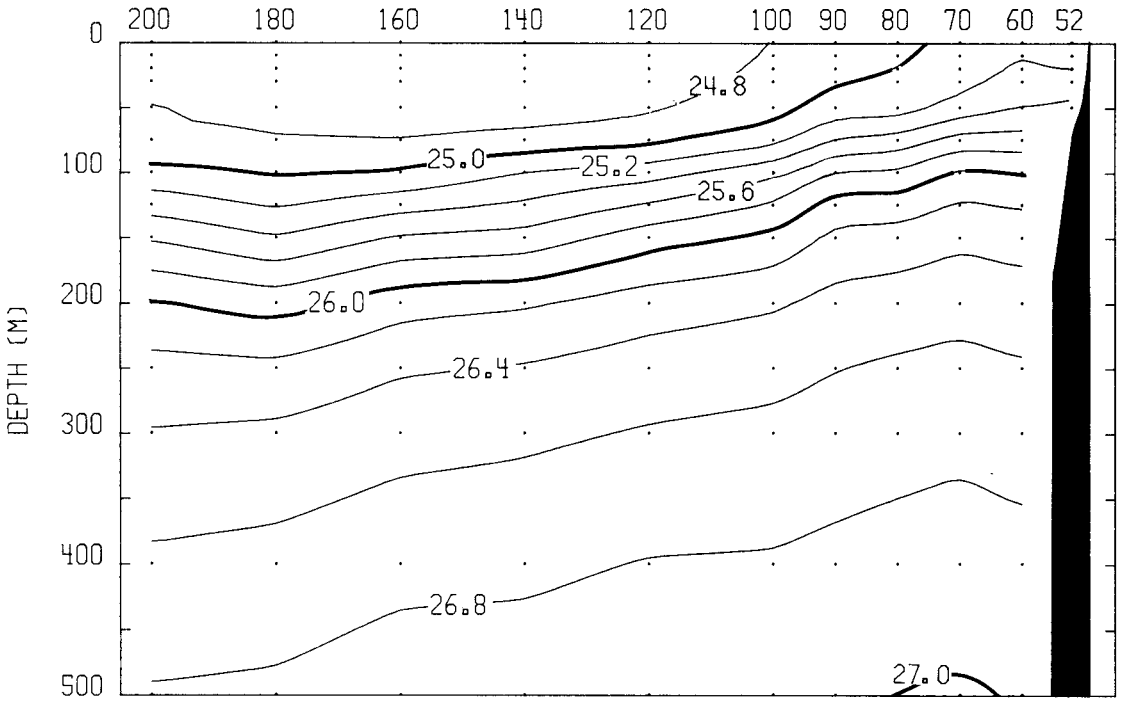
SIGMA-T LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	24.78	24.76	24.65	24.69	24.73	24.79	24.95	24.97	25.05	25.18	24.98
10	24.78	24.75	24.66	24.69	24.73	24.82	24.95	24.94	25.07	25.21	25.08
20	24.79	24.76	24.66	24.69	24.73	24.82	24.96	25.00	25.10	25.24	25.21
30	24.79	24.77	24.68	24.69	24.74	24.84	24.99	25.01	25.15	25.28	25.30
50	24.80	24.78	24.73	24.69	24.76	24.91	25.10	25.09	25.27	25.41	25.47
75	24.81	24.79	24.79	24.86	24.94	25.12	25.41	25.49	25.70	25.69	
100	25.07	24.98	25.01	25.22	25.32	25.56	25.83	25.84	26.05	25.99	
125	25.32	25.17	25.33	25.43	25.63	25.83	26.10	26.10	26.24	26.18	
150	25.59	25.41	25.63	25.68	25.92	26.06	26.26	26.29	26.36	26.32	
200	26.02	25.92	26.13	26.19	26.31	26.38	26.47	26.50	26.53	26.50	
250	26.27	26.25	26.38	26.42	26.50	26.54	26.60	26.63	26.66	26.62	
300	26.41	26.44	26.53	26.56	26.62	26.65	26.69	26.72	26.75	26.72	
400	26.64	26.67	26.75	26.76	26.81	26.82	26.85	26.88	26.90	26.87	
500	26.82	26.84	26.91	26.92	26.96	26.96	26.99	27.01	27.02	26.99	

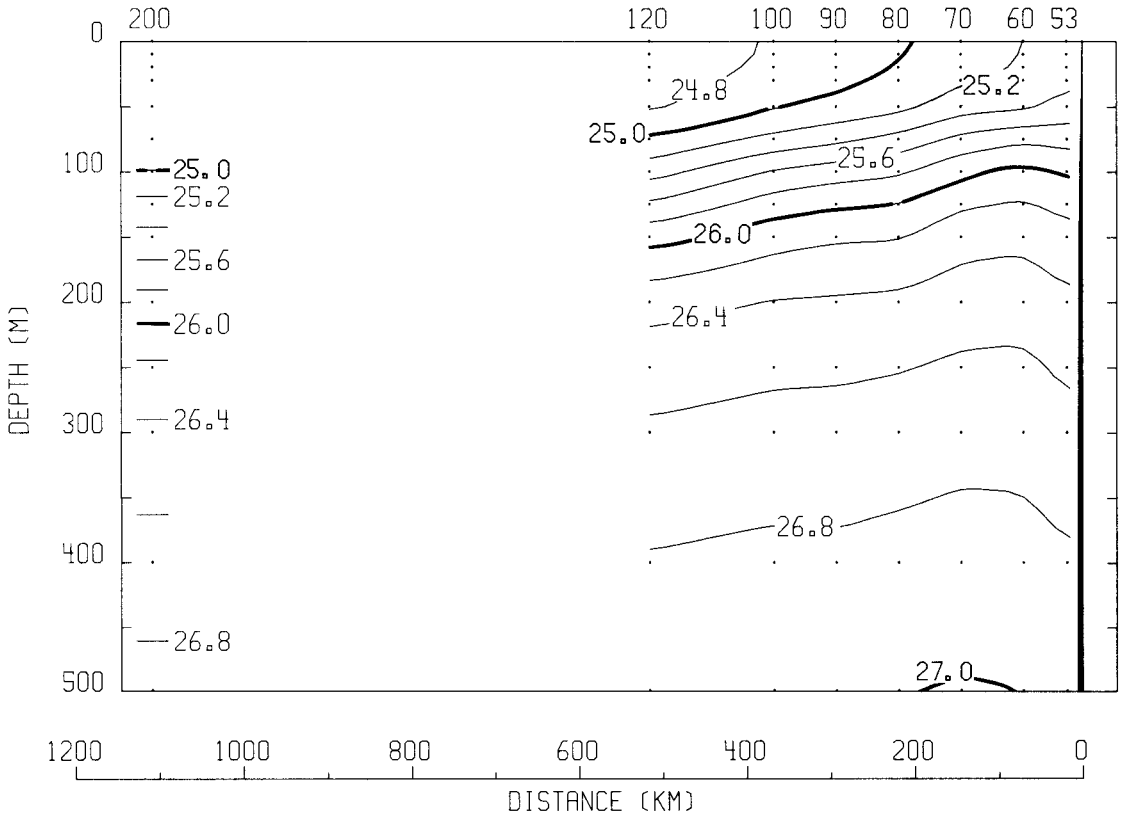
SIGMA-T LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	24.88	24.63	24.82	24.91	24.96	25.11	25.19	25.31
10	24.88	24.63	24.82	24.92	24.98	25.12	25.20	25.32
20	24.88	24.66	24.85	24.93	25.02	25.14	25.22	25.33
30	24.88	24.68	24.88	24.95	25.03	25.18	25.24	25.36
50	24.87	24.76	24.97	25.05	25.12	25.30	25.33	25.49
75	24.90	25.01	25.25	25.34	25.47	25.66	25.77	25.72
100	24.99	25.31	25.63	25.71	25.77	25.96	26.06	25.97
125	25.28	25.62	25.90	25.97	26.01	26.18	26.23	26.14
150	25.45	25.93	26.13	26.18	26.19	26.33	26.36	26.26
200	25.88	26.33	26.42	26.43	26.45	26.51	26.52	26.44
250	26.24	26.51	26.56	26.57	26.59	26.63	26.64	26.56
300	26.44	26.63	26.67	26.68	26.69	26.74	26.73	26.66
400	26.69	26.82	26.85	26.84	26.87	26.89	26.88	26.83
500	26.87	26.97	26.99	26.99	27.00	27.01	27.00	26.95

LINE 60



LINE 70



JANUARY
SIGMA-T

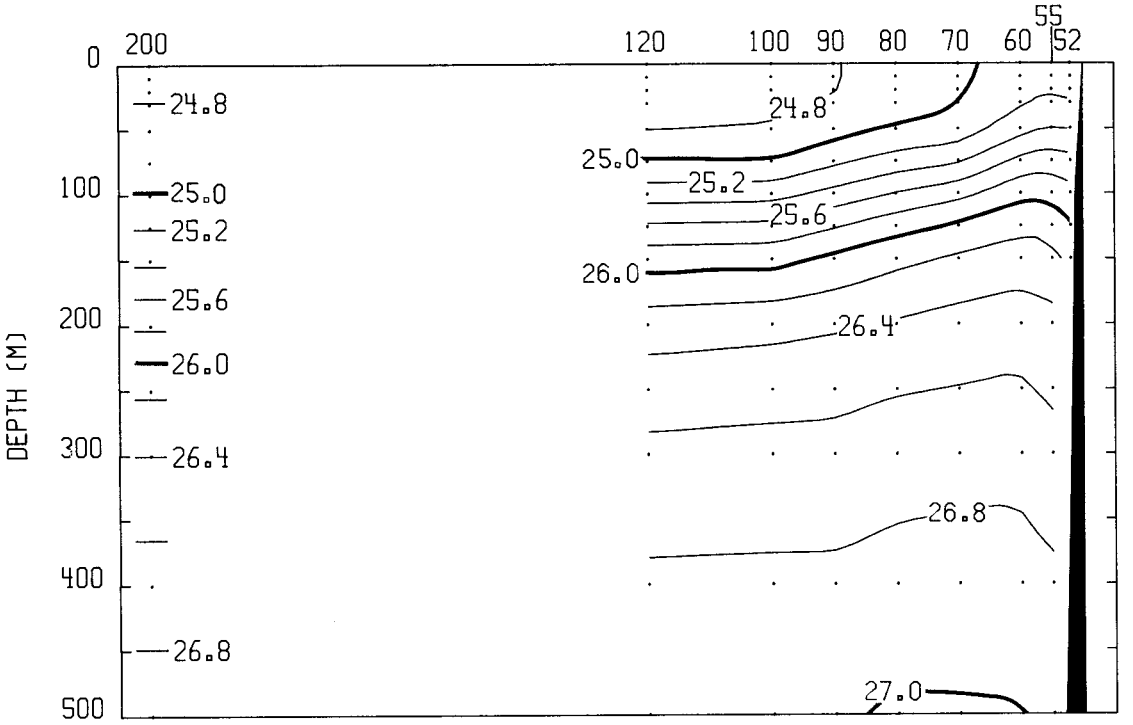
SIGMA-T LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	24.77	24.68	24.74	24.79	24.89	24.96	25.09	25.16	25.09
10	24.77	24.68	24.74	24.78	24.89	24.96	25.11	25.18	25.10
20	24.79	24.69	24.74	24.79	24.90	24.97	25.13	25.20	25.14
30	24.80	24.71	24.75	24.81	24.91	24.99	25.17	25.24	25.19
50	24.84	24.78	24.81	24.92	25.01	25.07	25.31	25.42	25.37
75	24.87	25.01	25.00	25.14	25.28	25.35	25.66	25.73	25.64
100	25.00	25.30	25.31	25.46	25.61	25.73	25.96	25.95	25.83
125	25.20	25.64	25.65	25.79	25.93	26.04	26.15	26.14	25.97
150	25.36	25.92	25.93	26.04	26.15	26.23	26.30	26.28	26.12
200	25.77	26.30	26.34	26.37	26.42	26.48	26.51	26.44	
250	26.18	26.51	26.53	26.55	26.59	26.61	26.63	26.55	
300	26.40	26.65	26.66	26.66	26.71	26.72	26.74	26.65	
400	26.70	26.84	26.84	26.85	26.88	26.90	26.89	26.83	
500	26.90	26.99	26.99	26.99	27.02	27.02	27.01	26.96	

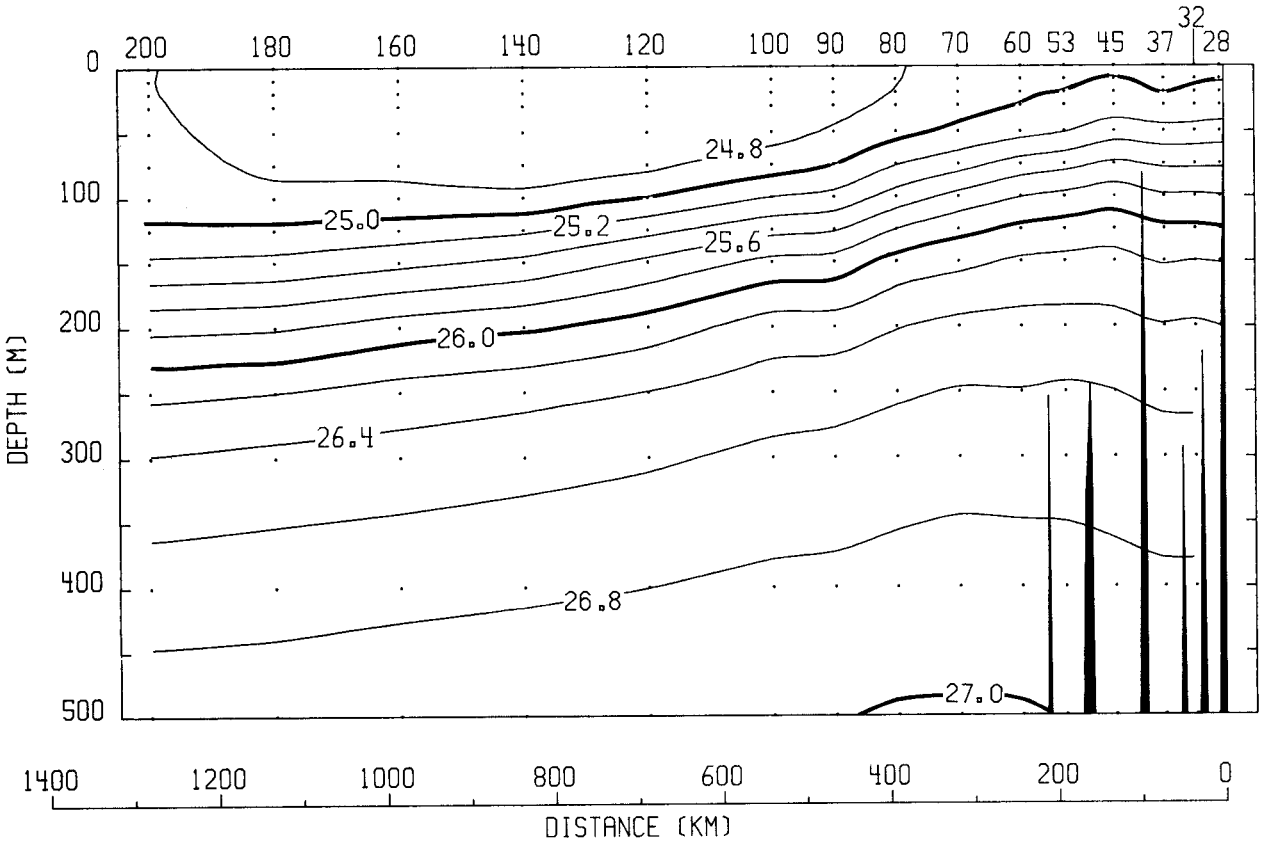
SIGMA-T LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	24.81	24.73	24.66	24.60	24.63	24.65	24.71	24.78	24.87	24.95	24.96	24.97	24.95	24.96	24.95
10	24.80	24.73	24.67	24.61	24.64	24.66	24.71	24.79	24.89	24.97	24.98	25.01	24.96	24.99	25.00
20	24.81	24.74	24.67	24.61	24.64	24.67	24.73	24.80	24.91	24.98	25.00	25.04	24.99	25.01	25.03
30	24.81	24.74	24.68	24.62	24.64	24.69	24.75	24.83	24.93	25.00	25.03	25.11	25.03	25.05	25.08
50	24.83	24.75	24.69	24.63	24.66	24.72	24.81	24.92	25.03	25.10	25.17	25.31	25.25	25.26	25.29
75	24.86	24.76	24.75	24.67	24.73	24.90	24.97	25.19	25.30	25.48	25.54	25.65	25.58	25.57	25.58
100	24.91	24.84	24.86	24.84	25.00	25.20	25.24	25.48	25.67	25.81	25.85	25.93	25.81	25.83	25.80
125	25.03	25.05	25.09	25.17	25.34	25.54	25.57	25.82	25.95	26.04	26.08	26.13	26.02	26.04	26.01
150	25.23	25.25	25.35	25.45	25.65	25.86	25.86	26.09	26.15	26.24	26.24	26.27	26.18	26.22	26.20
200	25.76	25.78	25.90	25.98	26.10	26.31	26.30	26.40	26.46	26.47	26.47	26.46	26.40	26.43	26.41
250	26.16	26.21	26.29	26.34	26.41	26.51	26.53	26.57	26.62	26.61	26.63	26.61	26.56	26.56	
300	26.41	26.46	26.49	26.53	26.57	26.64	26.66	26.70	26.73	26.71	26.73	26.70	26.67	26.67	
400	26.71	26.73	26.75	26.77	26.80	26.84	26.85	26.88	26.89	26.89	26.87	26.86	26.83	26.83	
500	26.90	26.91	26.94	26.95	26.96	27.00	27.00	27.02	27.02	27.01	27.00	26.98	26.97	26.95	

LINE 80



LINE 90



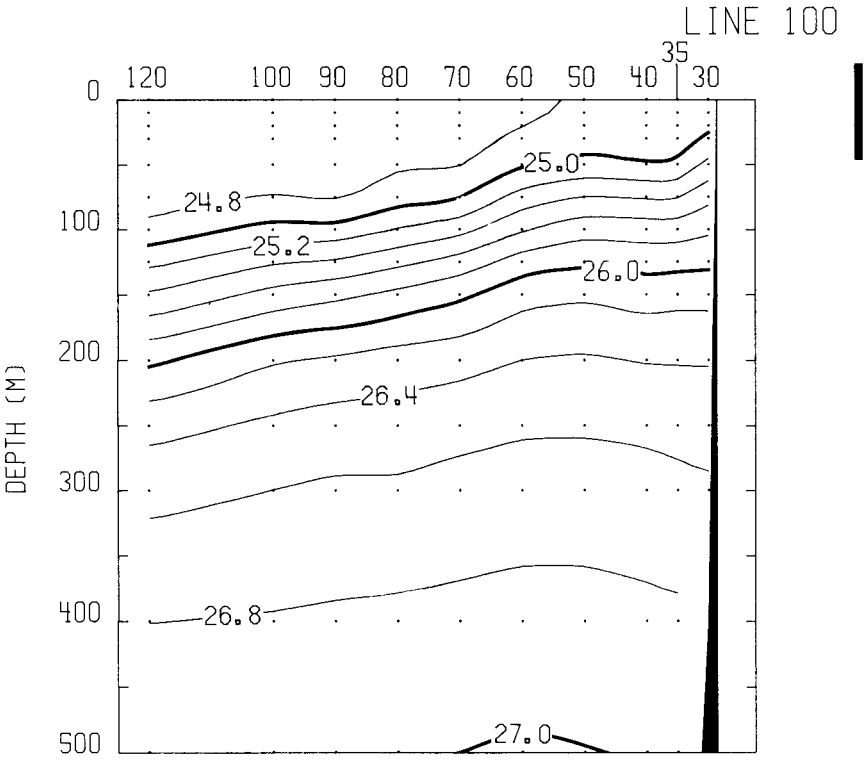
JANUARY
SIGMA-T

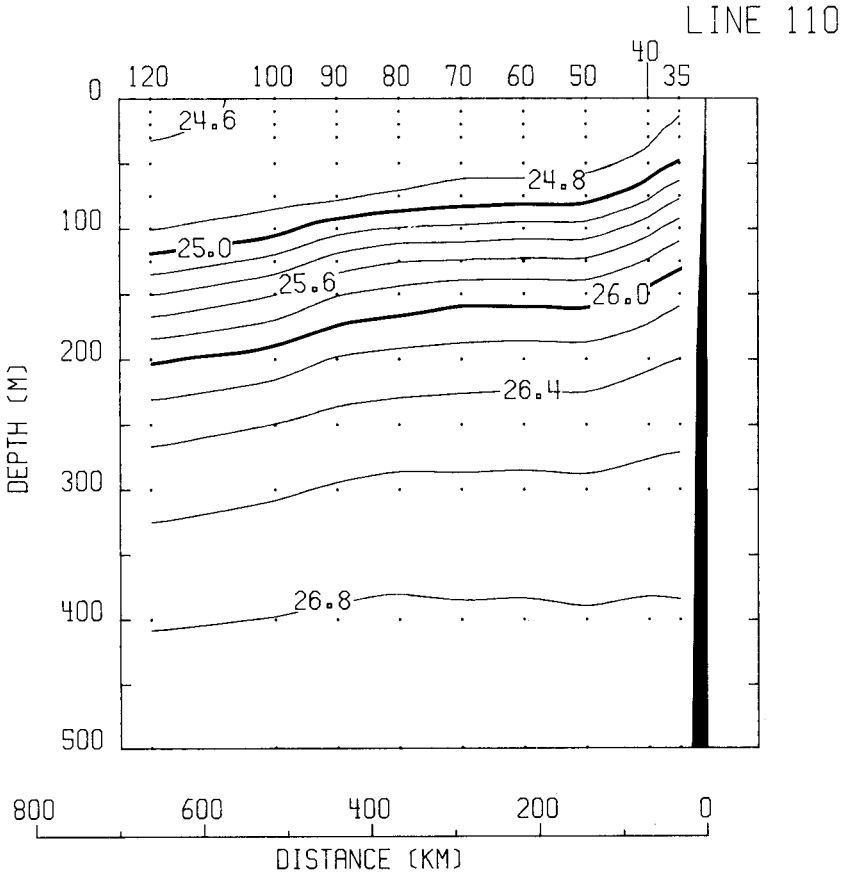
SIGMA-T LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	24.63	24.64	24.60	24.63	24.67	24.74	24.82	24.81	24.82	24.89
10	24.65	24.64	24.61	24.65	24.68	24.76	24.84	24.82	24.84	24.92
20	24.65	24.67	24.62	24.67	24.70	24.79	24.87	24.84	24.84	24.98
30	24.66	24.69	24.63	24.70	24.72	24.84	24.91	24.86	24.86	25.06
50	24.69	24.72	24.66	24.78	24.77	24.97	25.06	25.01	24.99	25.30
75	24.71	24.79	24.75	24.90	24.97	25.29	25.43	25.39	25.37	25.59
100	24.85	25.08	25.08	25.21	25.33	25.60	25.73	25.71	25.70	25.78
125	25.15	25.39	25.43	25.55	25.69	25.90	25.98	25.92	25.94	25.96
150	25.42	25.67	25.76	25.86	25.96	26.14	26.18	26.11	26.14	26.14
200	25.97	26.19	26.24	26.30	26.33	26.41	26.43	26.39	26.39	26.39
250	26.33	26.45	26.49	26.50	26.54	26.58	26.58	26.56	26.54	26.52
300	26.54	26.60	26.64	26.63	26.67	26.69	26.70	26.67	26.66	26.63
400	26.80	26.82	26.83	26.85	26.86	26.88	26.87	26.85	26.84	
500	26.98	26.98	26.99	27.00	27.01	27.02	27.01	26.99	26.98	

SIGMA-T LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	24.56	24.62	24.62	24.62	24.65	24.66	24.68	24.73	24.79
10	24.57	24.62	24.61	24.63	24.66	24.66	24.67	24.74	24.79
20	24.58	24.62	24.62	24.63	24.68	24.67	24.68	24.75	24.83
30	24.60	24.63	24.63	24.64	24.70	24.68	24.69	24.76	24.86
50	24.62	24.65	24.65	24.67	24.74	24.72	24.74	24.83	25.04
75	24.63	24.71	24.71	24.81	24.88	24.89	24.89	25.12	25.42
100	24.77	24.92	25.14	25.24	25.24	25.29	25.27	25.52	25.74
125	25.06	25.26	25.50	25.62	25.63	25.65	25.63	25.82	25.98
150	25.39	25.60	25.80	25.86	25.93	25.93	25.91	26.05	26.17
200	25.98	26.10	26.23	26.27	26.29	26.31	26.29	26.37	26.42
250	26.33	26.41	26.47	26.49	26.50	26.50	26.50	26.55	26.56
300	26.54	26.58	26.62	26.64	26.64	26.64	26.63	26.65	26.66
400	26.78	26.81	26.83	26.84	26.83	26.83	26.82	26.84	26.83
500	26.97	26.97	26.98	26.99	26.98	26.98	26.96	26.98	26.97





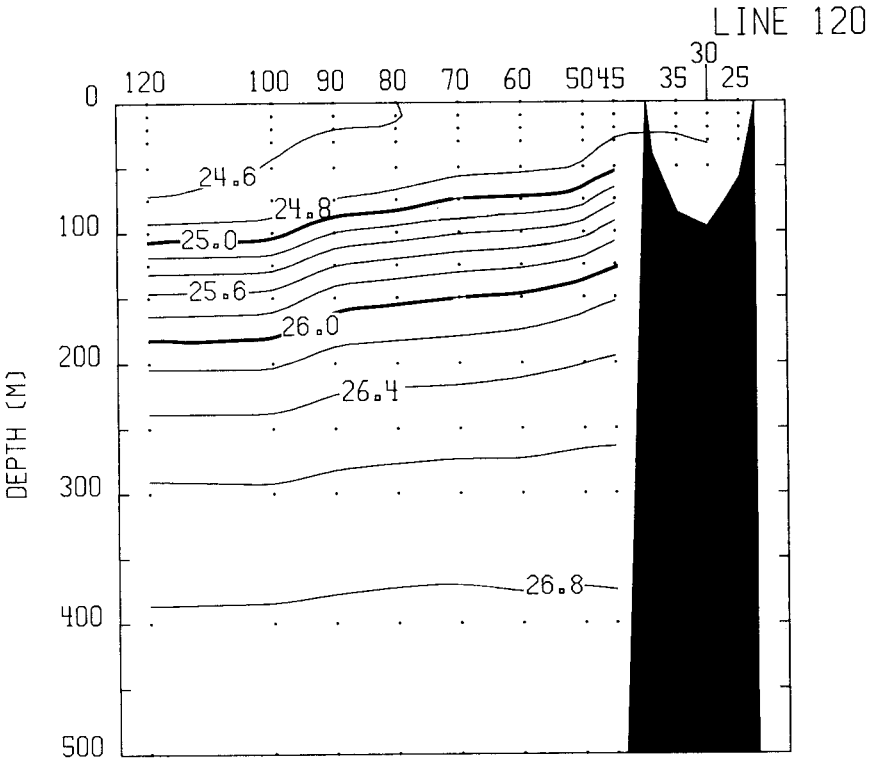
JANUARY
SIGMA-T

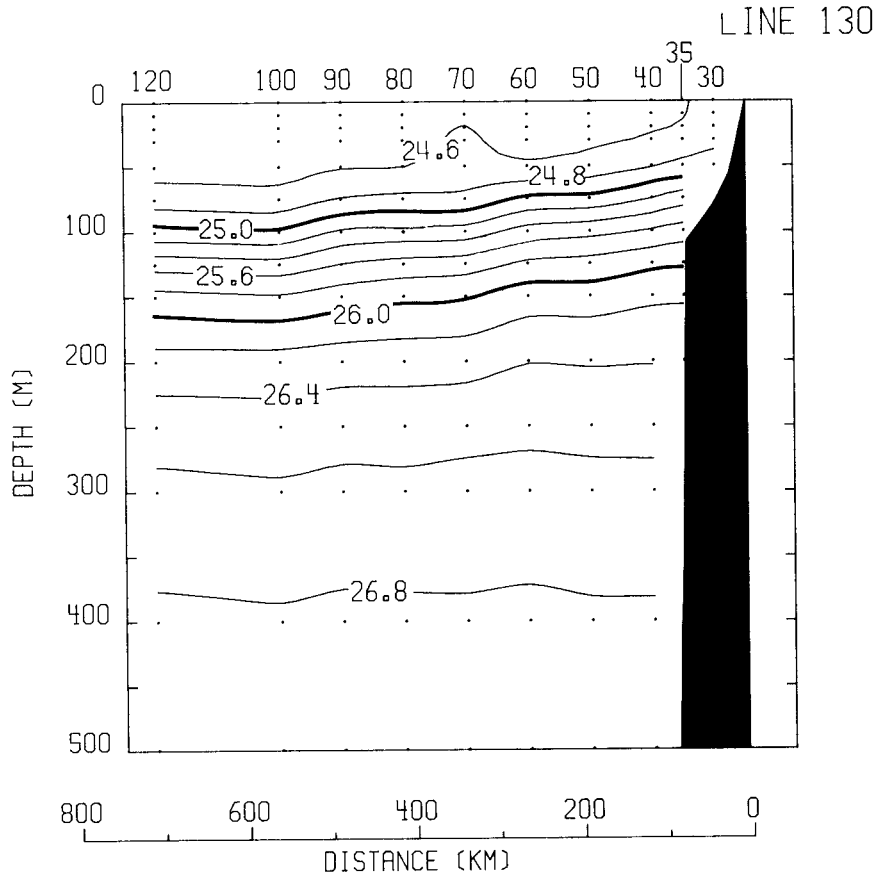
SIGMA-T LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	24.50	24.58	24.60	24.60	24.61	24.66	24.68	24.75	24.78	24.75	24.74
10	24.51	24.57	24.58	24.59	24.61	24.65	24.69	24.76	24.78	24.75	24.74
20	24.51	24.58	24.60	24.60	24.63	24.66	24.70	24.78	24.79	24.76	24.77
30	24.52	24.59	24.61	24.60	24.63	24.67	24.72	24.81	24.81	24.79	24.79
50	24.53	24.60	24.64	24.64	24.72	24.74	24.78	24.97	24.88	24.86	
75	24.58	24.66	24.77	24.86	25.00	25.01	25.07	25.41			
100	24.88	24.90	25.22	25.30	25.39	25.42	25.53	25.76			
125	25.31	25.33	25.62	25.68	25.75	25.78	25.87	26.02			
150	25.65	25.68	25.93	25.97	26.01	26.04	26.13	26.20			
200	26.18	26.18	26.31	26.32	26.33	26.36	26.40	26.43			
250	26.46	26.47	26.51	26.53	26.54	26.54	26.56	26.57			
300	26.63	26.62	26.65	26.66	26.67	26.67	26.68	26.67			
400	26.83	26.83	26.84	26.85	26.86	26.84	26.85	26.84			
500	26.98	26.99	27.00	27.00	27.00	26.99	26.99	26.98			

SIGMA-T LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	24.50	24.48	24.52	24.51	24.57	24.49	24.53	24.56	24.56	24.69
10	24.50	24.49	24.52	24.51	24.60	24.50	24.54	24.57	24.57	24.69
20	24.50	24.51	24.54	24.53	24.62	24.51	24.55	24.58	24.60	24.70
30	24.51	24.52	24.54	24.54	24.63	24.51	24.56	24.60	24.65	24.73
50	24.53	24.53	24.58	24.57	24.68	24.59	24.66	24.75	24.85	24.93
75	24.69	24.63	24.79	24.85	24.81	25.04	25.03	25.19	25.33	
100	25.07	25.02	25.26	25.28	25.28	25.50	25.55	25.63	25.71	
125	25.54	25.47	25.62	25.68	25.70	25.86	25.87	25.96	25.99	
150	25.88	25.83	25.91	25.97	25.99	26.11	26.10	26.17	26.17	
200	26.29	26.29	26.32	26.33	26.33	26.40	26.38	26.40	26.41	
250	26.51	26.49	26.53	26.51	26.54	26.56	26.54	26.54		
300	26.65	26.63	26.66	26.65	26.67	26.67	26.66	26.65		
400	26.85	26.83	26.85	26.84	26.83	26.85	26.83	26.83		
500	27.00	26.97	26.99	26.99	26.99	26.99	26.99	26.98		





JANUARY
SIGMA-T

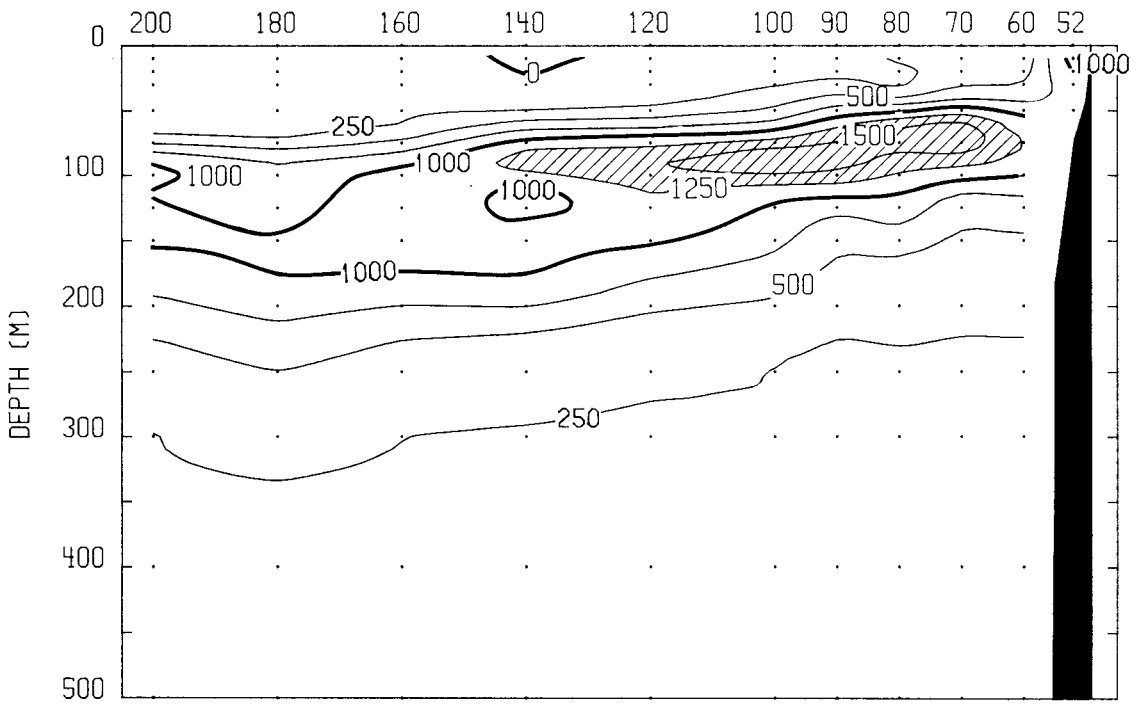
STABILITY (10E-8/M) LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0											
10	37	37	37	-24	8	155	77	145	238	259	1173
20	37	50	100	-12	74	84	154	335	403	356	1096
30	42	53	200	6	83	246	323	152	470	485	841
50	47	66	192	223	285	527	873	999	1174	902	
75	480	354	558	1131	1177	1381	1553	1601	1681	1216	
100	1084	799	1144	1192	1445	1501	1450	1217	1062	1006	
125	1034	857	1265	882	1205	959	826	897	582	651	
150	1037	1030	1163	1065	1047	823	533	626	435	459	
200	675	872	739	764	534	449	318	298	276	273	
250	356	497	356	328	268	245	201	209	210	213	
300	244	296	247	233	217	201	174	168	168	172	
400	198	183	184	166	168	146	146	142	132	135	
500											

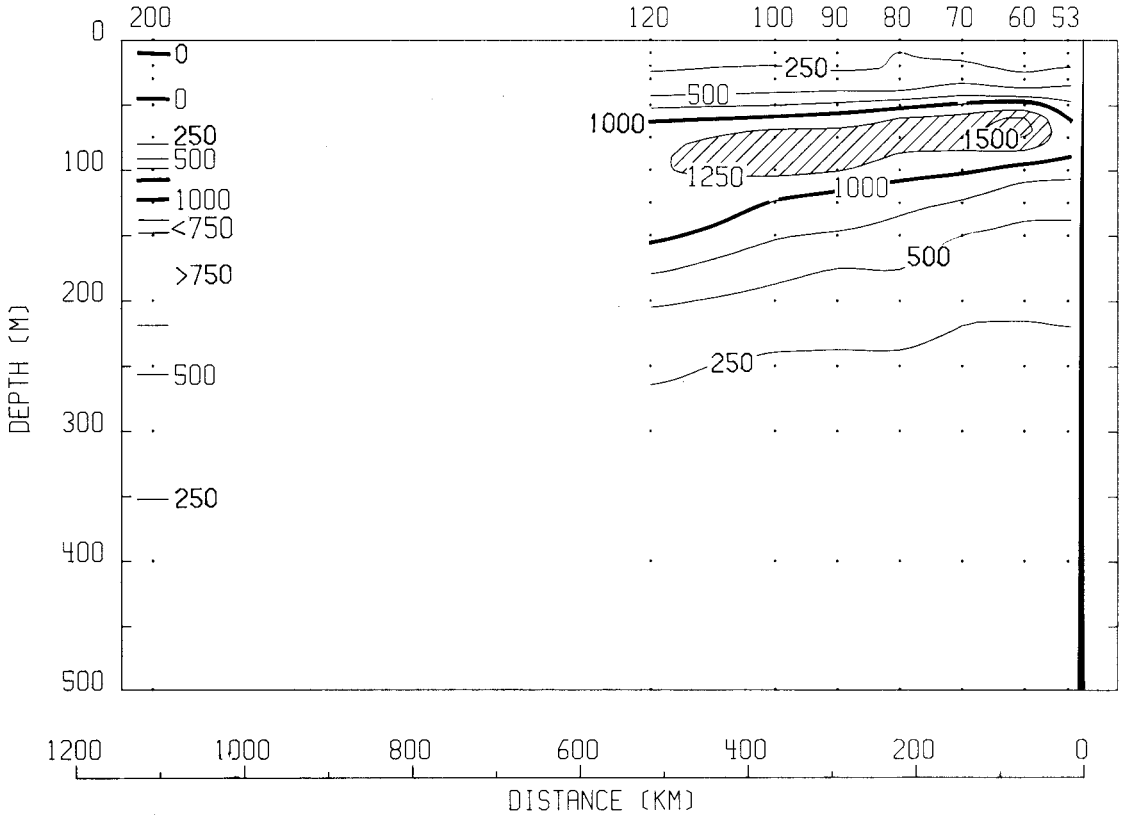
STABILITY (10E-8/M) LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0								
10	0	158	130	146	257	163	117	115
20	-6	250	285	193	267	290	182	230
30	-21	240	326	289	227	425	262	411
50	11	689	741	803	928	1054	1145	784
75	185	1151	1393	1391	1383	1397	1571	1012
100	806	1234	1356	1289	1083	1035	880	853
125	970	1254	978	919	827	723	569	563
150	745	1086	769	715	645	489	430	440
200	849	540	407	345	380	277	268	283
250	551	261	227	230	227	212	197	208
300	310	207	196	191	192	185	165	184
400	202	168	163	151	153	132	135	149
500								

LINE 60



LINE 70



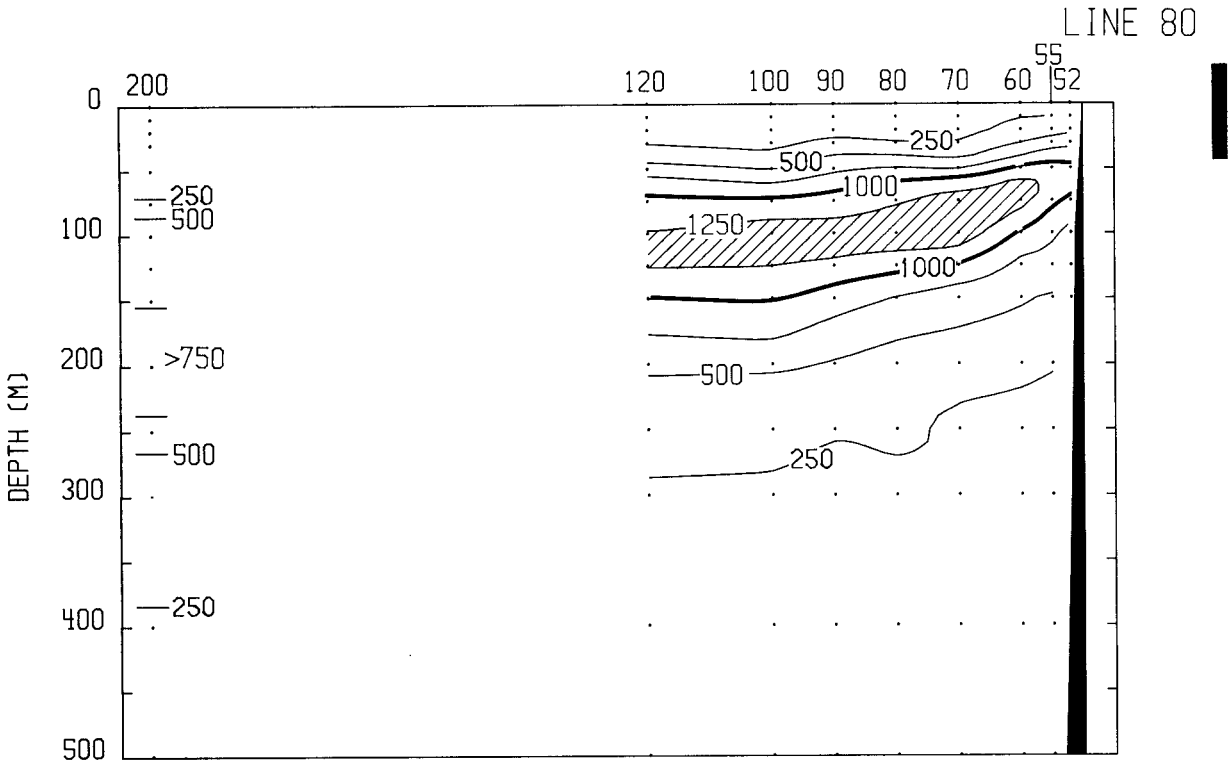
JANUARY
STABILITY

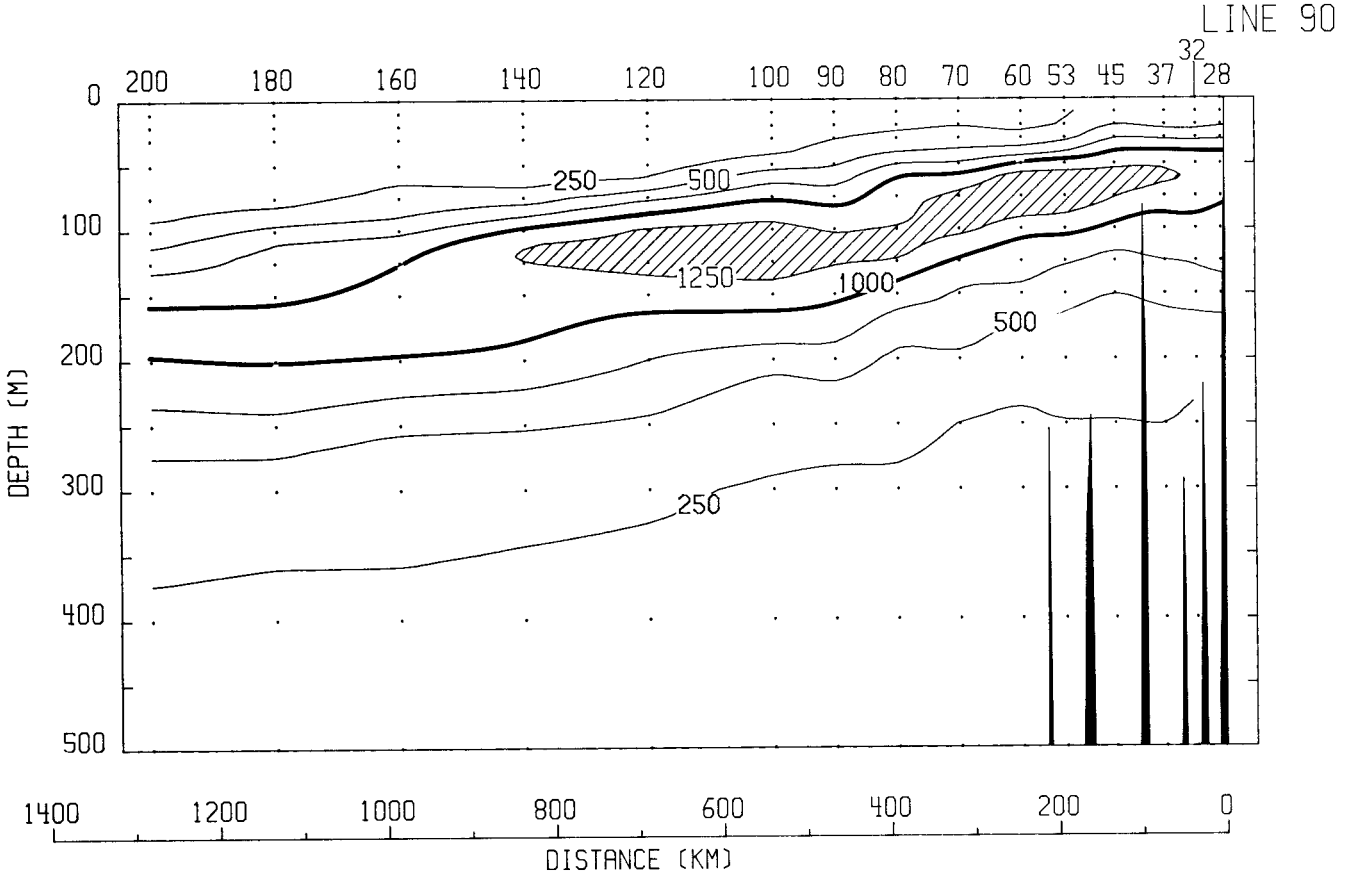
STABILITY (10E-8/M) LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0									
10	75	42	-9	2	75	71	212	202	239
20	125	171	68	142	107	164	319	305	450
30	161	225	179	333	219	244	493	597	668
50	130	624	476	706	791	715	1060	1146	1059
75	310	1056	1039	1101	1220	1398	1365	1082	933
100	695	1282	1354	1339	1361	1445	971	814	638
125	716	1271	1261	1190	1099	1001	675	658	570
150	720	994	1027	875	729	633	541	443	
200	871	558	566	472	401	339	302	249	
250	641	312	285	256	268	227	212	201	
300	366	228	221	200	208	209	190	195	
400	237	166	155	162	148	145	132	156	
500									

STABILITY (10E-8/M) LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0															
10	-9	10	50	75	42	86	110	103	205	144	217	358	213	253	400
20	40	19	50	25	7	131	185	203	218	155	238	476	377	306	425
30	59	20	33	42	44	125	233	284	331	278	384	784	681	669	715
50	107	61	129	117	123	386	455	772	773	1036	1117	1238	1266	1205	1161
75	155	149	332	354	667	992	861	1156	1319	1500	1443	1274	1142	1182	1047
100	309	585	690	1057	1301	1332	1235	1279	1349	1094	1095	936	880	923	828
125	652	840	1002	1257	1327	1354	1273	1252	952	852	775	667	749	759	797
150	956	947	1106	1112	1114	1155	1070	889	716	678	563	487	552	608	660
200	993	1016	984	917	747	605	644	434	457	324	370	320	365	306	
250	646	668	559	532	448	293	327	284	243	227	244	239	254	229	
300	393	379	314	291	264	234	219	217	193	200	166	170	186	203	
400	225	201	211	198	186	171	164	146	142	151	127	134	149	135	
500															





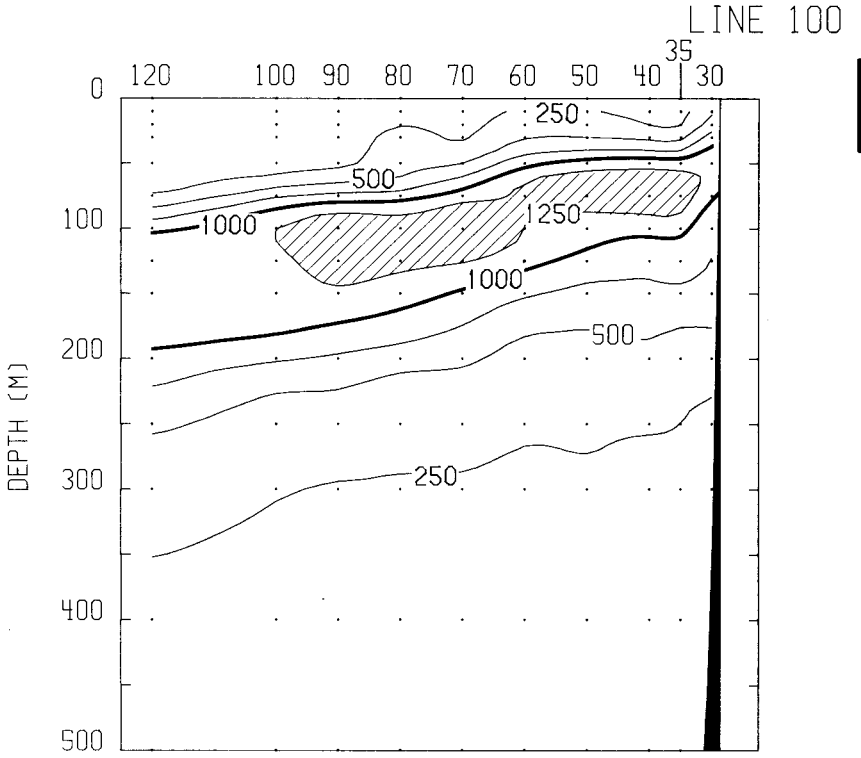
JANUARY
STABILITY

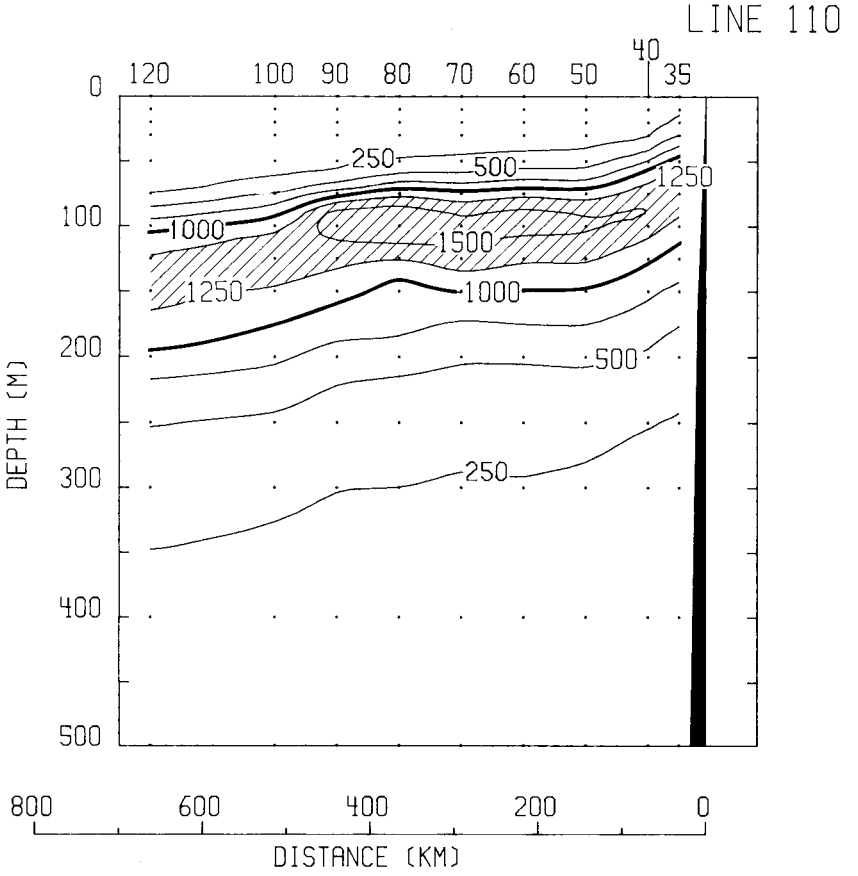
STABILITY (10E-8/M) LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0										
10	75	142	83	158	130	251	227	159	95	452
20	58	235	115	253	202	379	349	219	104	699
30	147	181	103	358	189	494	508	406	352	973
50	91	130	161	382	459	961	1124	1171	1096	1235
75	249	714	850	858	1157	1307	1411	1465	1491	956
100	934	1274	1437	1378	1512	1244	1113	1056	1141	726
125	1174	1200	1380	1321	1282	1095	895	797	888	718
150	1112	1149	1217	1115	961	775	668	684	693	637
200	948	781	706	607	543	395	368	435	360	360
250	553	362	354	285	311	266	254	262	248	217
300	327	257	236	241	227	209	216	199	207	
400	201	178	166	180	155	160	144	157	155	
500										

STABILITY (10E-8/M) LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0									
10	80	0	0	34	165	76	28	77	188
20	130	57	109	36	209	92	102	105	338
30	152	75	113	70	154	118	138	169	533
50	77	123	181	267	285	354	365	730	1260
75	230	512	889	1179	1028	1184	1081	1447	1467
100	883	1157	1718	1749	1595	1615	1558	1448	1101
125	1273	1401	1331	1252	1414	1277	1303	1054	860
150	1324	1227	1080	904	1017	988	988	804	661
200	951	801	637	619	513	533	552	471	354
250	512	450	354	342	318	304	307	258	227
300	325	270	250	249	228	236	221	190	182
400	198	183	171	163	166	159	160	163	152
500									





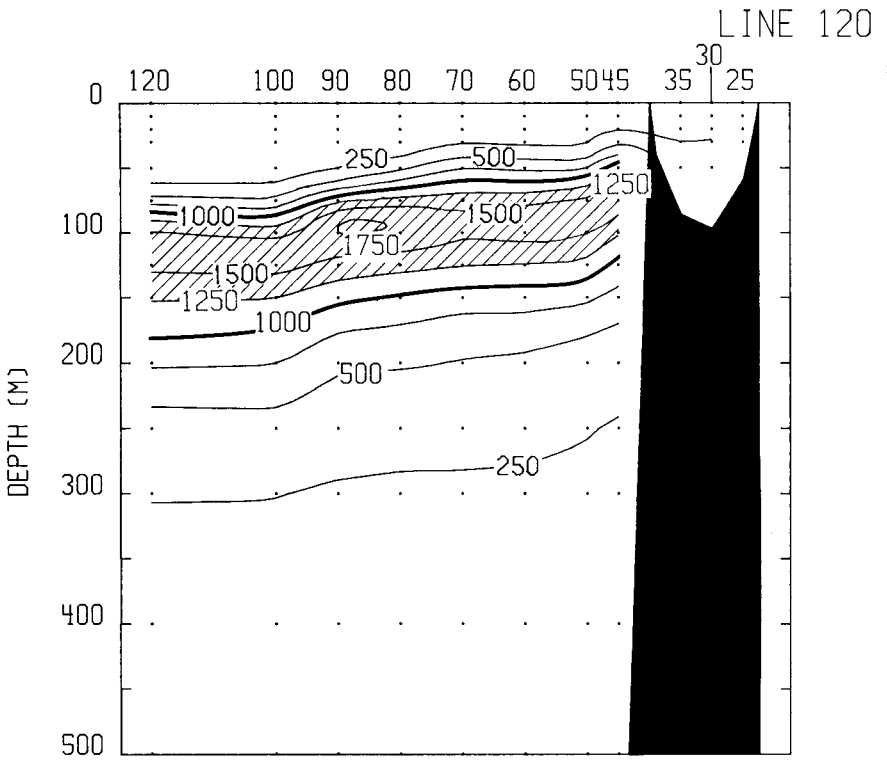
JANUARY
STABILITY

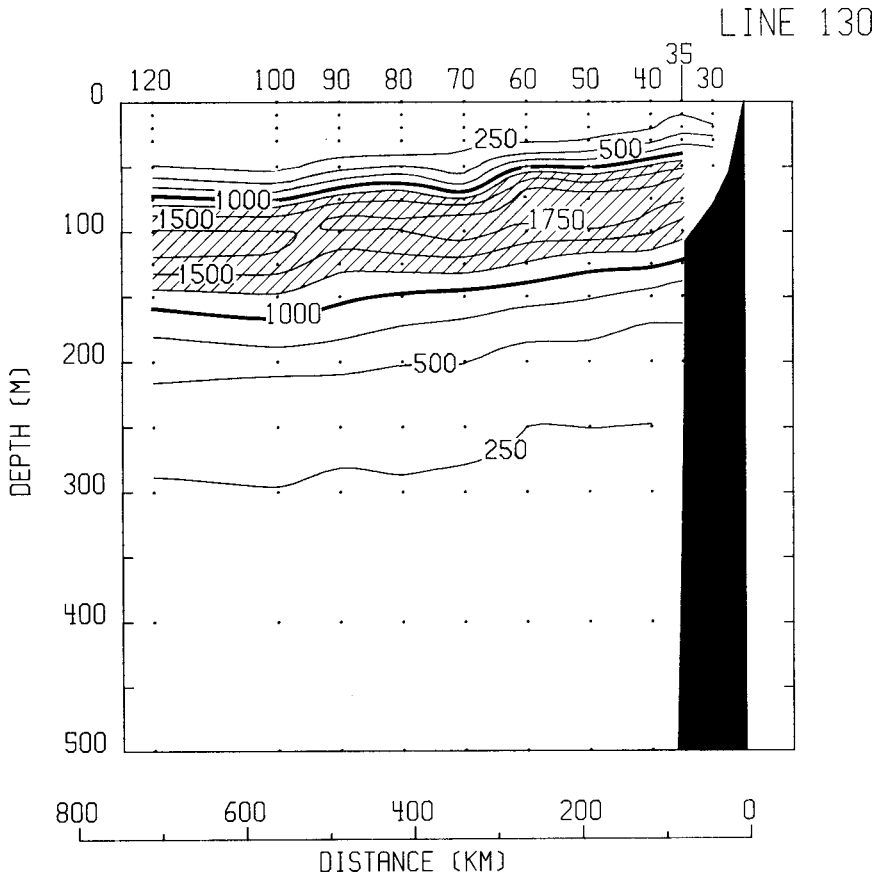
STABILITY (10E-8/M) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0											
10	75	35	31	0	54	14	106	128	65	85	157
20	66	71	149	53	129	61	162	228	109	192	232
30	63	58	73	108	193	174	181	442	211	299	
50	137	154	221	399	766	678	665	1338			
75	605	501	1218	1371	1384	1418	1578	1664			
100	1558	1416	1817	1750	1549	1621	1683	1210			
125	1580	1615	1412	1340	1259	1239	1199	874			
150	1268	1262	1046	960	877	877	813	625			
200	790	757	536	520	483	452	380	335			
250	410	407	315	311	322	285	261	228			
300	262	251	231	224	223	212	197	183			
400	156	174	163	163	156	151	151	150			
500											

STABILITY (10E-8/M) LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0										
10	0	129	83	81	256	69	91	122	227	50
20	59	129	108	137	156	66	120	163	394	213
30	90	68	125	121	152	230	225	344	628	546
50	237	143	367	493	295	986	934	1285	1529	
75	1101	972	1433	1509	1220	1935	1897	1850	1796	
100	1814	1795	1765	1761	1933	1655	1758	1562	1316	
125	1663	1659	1306	1372	1415	1224	1074	1069	919	
150	1132	1224	1041	957	934	838	770	663	624	
200	574	606	581	506	507	393	406	330		
250	338	298	296	291	321	241	249	244		
300	229	244	223	232	205	203	195	203		
400	164	162	163	164	149	158	159	157		
500										





JANUARY
STABILITY

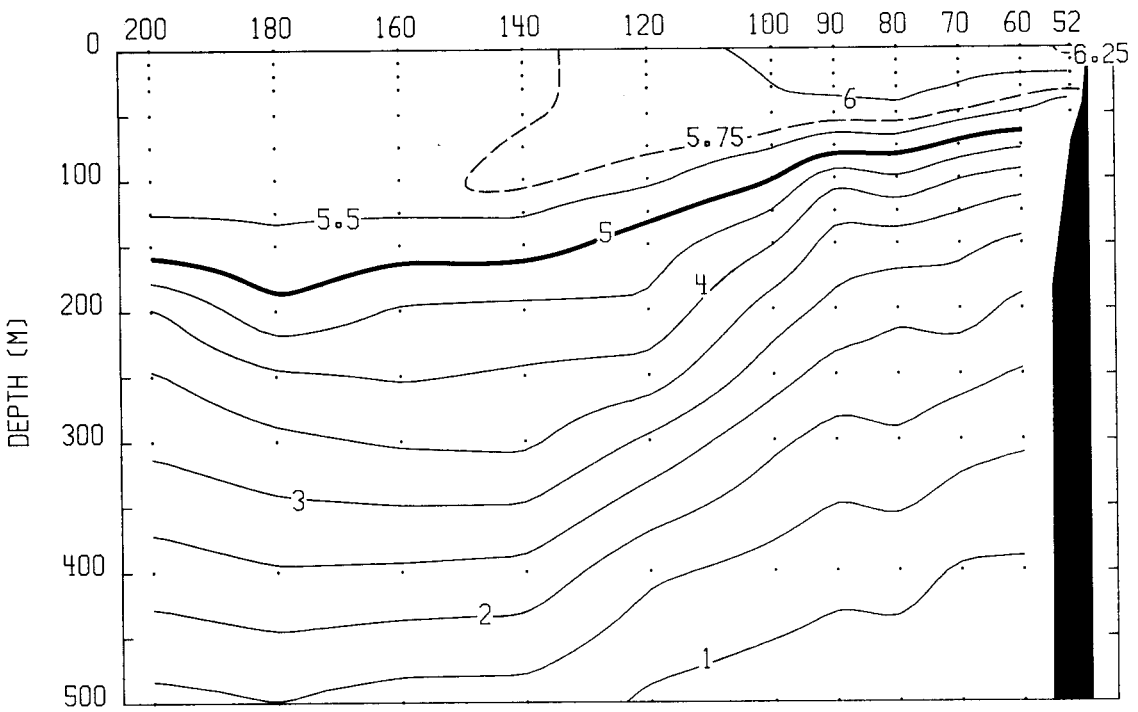
OXYGEN (ML/L) LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	5.59	5.55	5.68	5.68	5.96	6.06	6.12	6.10	6.08	6.15	6.31
10	5.65	5.58	5.69	5.72	5.86	6.03	6.04	6.11	6.06	6.18	6.17
20	5.64	5.56	5.68	5.72	5.88	6.01	6.10	6.08	6.04	5.96	6.00
30	5.62	5.55	5.67	5.72	5.90	5.99	6.06	6.06	6.01	5.88	5.77
50	5.61	5.55	5.63	5.73	5.91	5.97	5.88	5.98	5.77	5.50	5.12
75	5.56	5.53	5.57	5.79	5.78	5.58	5.23	5.32	4.83	4.52	
100	5.75	5.59	5.71	5.81	5.64	5.05	4.10	4.48	3.98	3.77	
125	5.52	5.53	5.56	5.56	5.14	4.49	3.58	3.76	3.51	3.25	
150	5.24	5.46	5.19	5.24	4.75	4.03	3.28	3.28	3.11	2.89	
200	3.89	4.89	4.42	4.36	4.42	3.27	2.85	2.56	2.76	2.35	
250	3.44	3.90	4.05	3.93	3.80	2.71	2.29	2.30	2.17	1.95	
300	3.10	3.39	3.56	3.62	2.91	2.10	1.81	1.96	1.68	1.55	
400	2.25	2.46	2.42	2.35	1.58	1.31	1.13	1.17	0.94	0.93	
500	1.34	1.47	1.27	1.28	0.90	0.71	0.67	0.71	0.58	0.59	

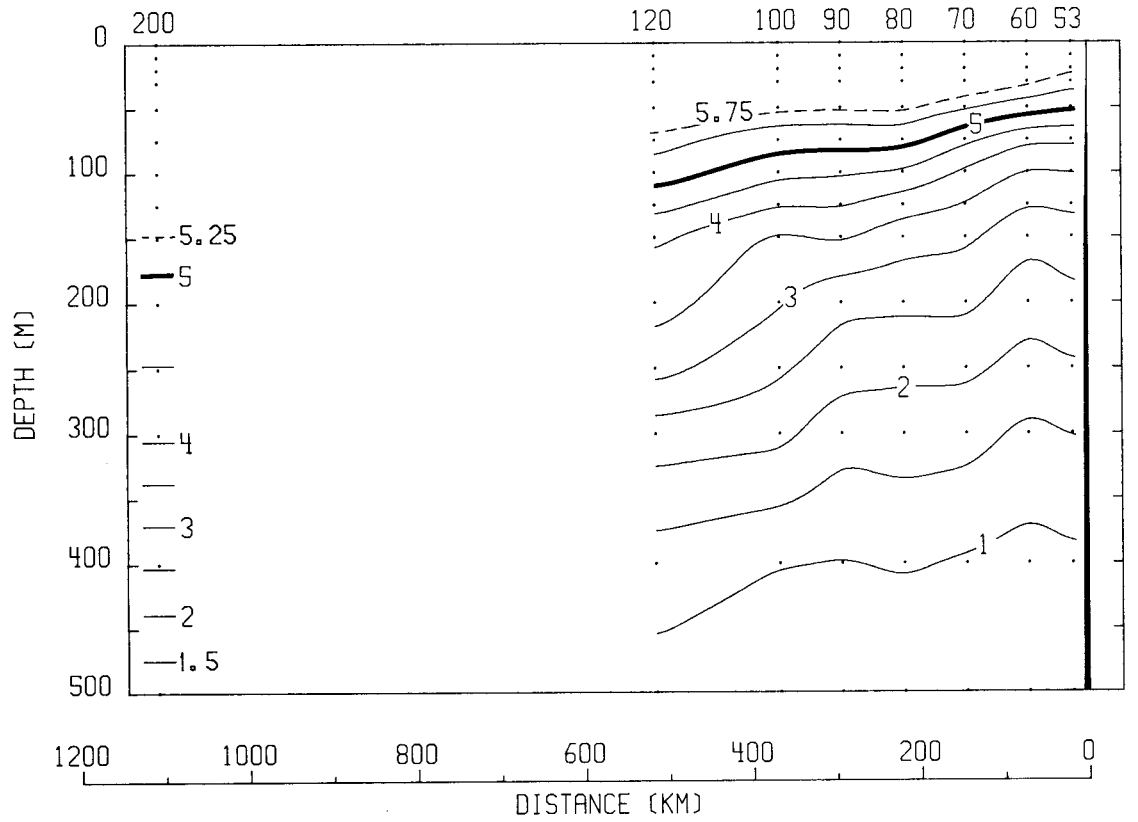
OXYGEN (ML/L) LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	5.46	5.93	5.98	5.97	5.99	5.98	5.97	5.94
10	5.43	5.96	6.00	5.94	5.97	6.01	5.99	5.96
20	5.39	5.94	5.98	5.96	5.96	5.99	5.97	5.86
30	5.35	5.91	5.94	5.95	5.93	5.96	5.91	5.64
50	5.34	5.88	5.83	5.79	5.84	5.63	5.31	5.13
75	5.29	5.70	5.24	5.23	5.27	4.60	4.05	4.05
100	5.43	5.29	4.63	4.57	4.44	3.91	3.44	3.50
125	5.35	4.70	4.03	4.04	3.73	3.47	3.00	3.12
150	5.24	4.08	3.40	3.58	3.21	3.11	2.62	2.77
200	4.81	3.72	3.05	2.62	2.61	2.62	2.18	2.40
250	4.48	3.19	2.58	2.21	2.10	2.12	1.81	1.95
300	4.09	2.26	2.14	1.67	1.76	1.70	1.38	1.53
400	2.54	1.26	1.01	0.97	1.05	0.95	0.81	0.91
500	1.14	0.80	0.58	0.57	0.60	0.56	0.52	0.55

LINE 60



LINE 70



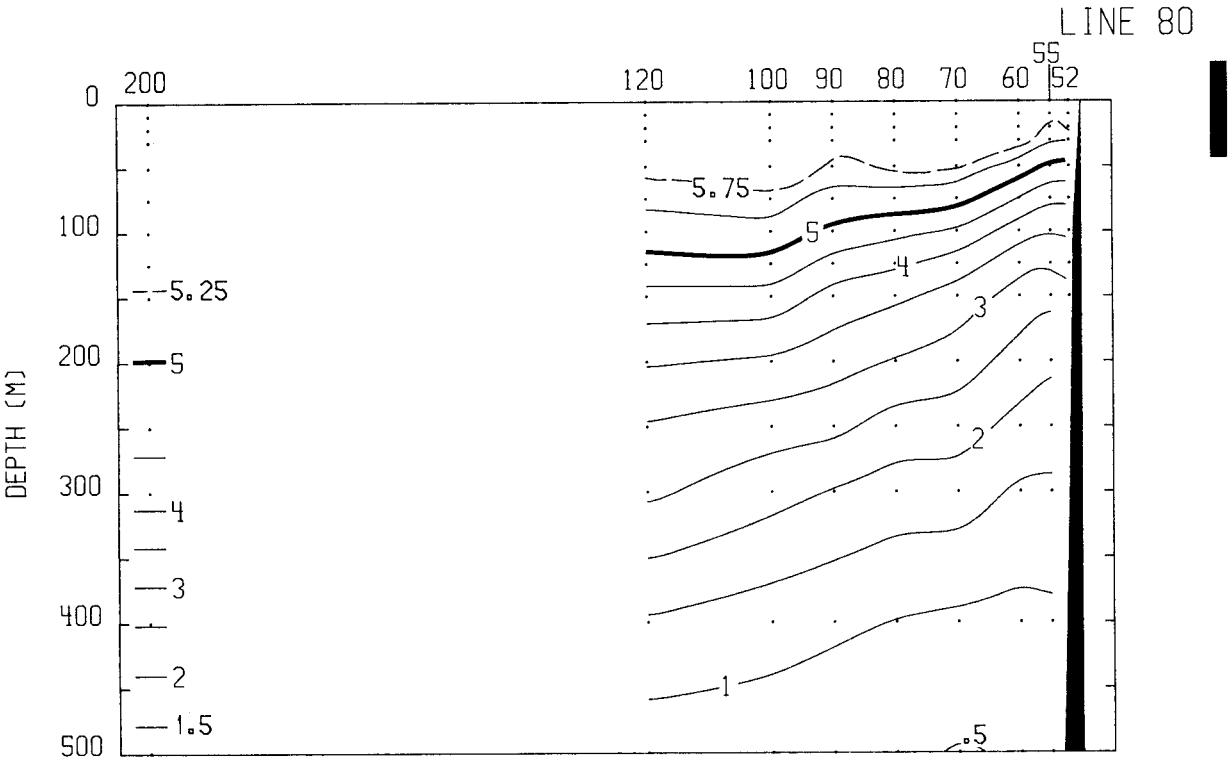
JANUARY
OXYGEN

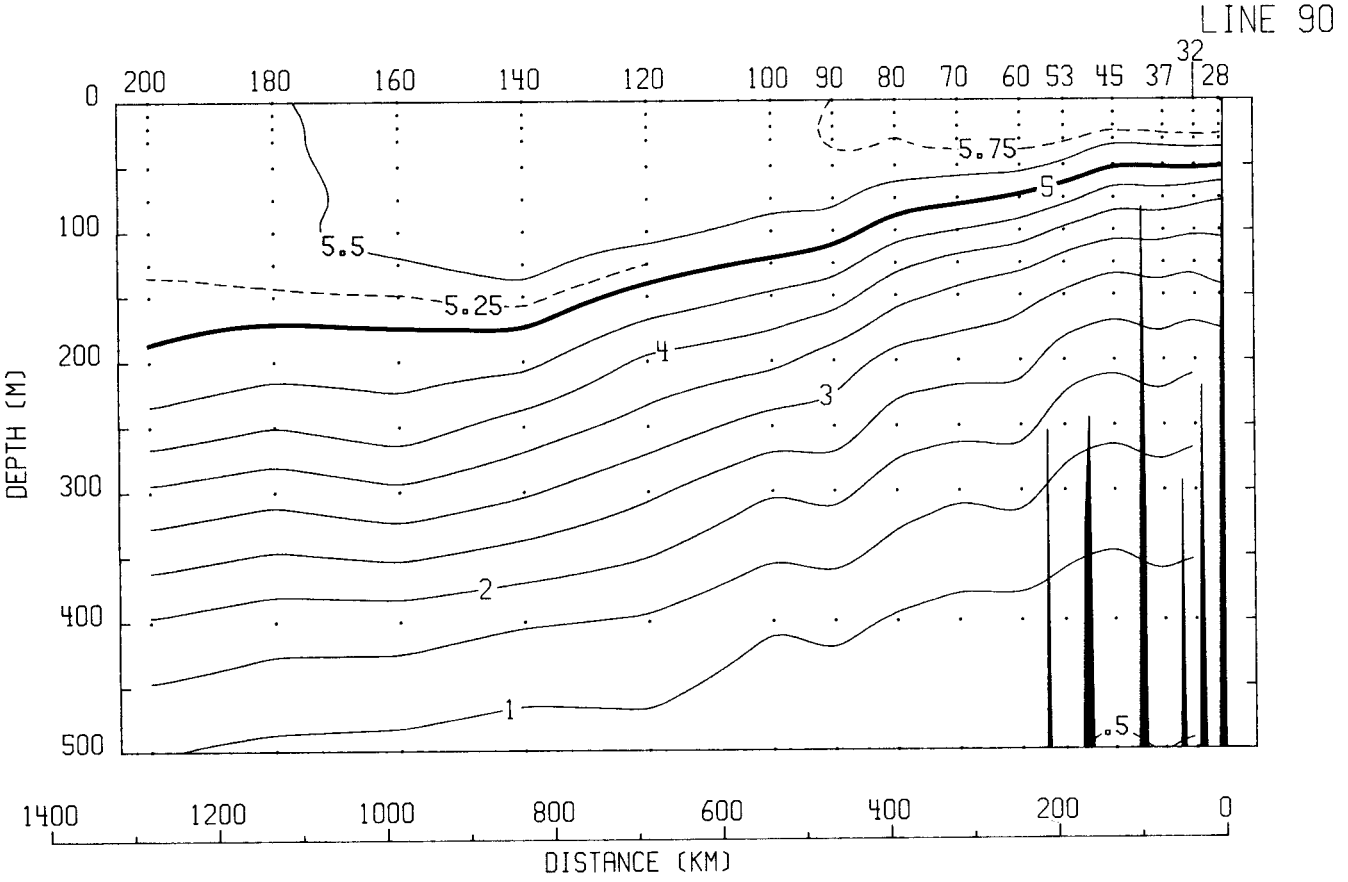
OXYGEN (ML/L) LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	5.44	5.87	5.82	5.87	5.95	5.88	6.01	5.84	5.88
10	5.44	5.81	5.84	5.87	5.92	5.92	5.98	5.81	5.86
20	5.45	5.85	5.82	5.87	5.87	5.92	5.92	5.68	5.75
30	5.45	5.86	5.83	5.83	5.88	5.89	5.84	5.58	5.55
50	5.40	5.81	5.84	5.72	5.81	5.76	5.42	4.88	4.91
75	5.37	5.62	5.72	5.34	5.36	5.30	4.47	4.02	4.11
100	5.50	5.25	5.38	4.88	4.64	4.43	3.71	3.48	3.61
125	5.33	4.87	4.89	4.30	4.10	3.77	3.16	2.99	3.33
150	5.22	4.33	4.32	3.81	3.60	3.29	2.79	2.58	2.88
200	5.00	3.55	3.42	3.20	2.97	2.76	2.29	2.06	
250	4.72	2.96	2.72	2.64	2.27	2.24	1.82	1.72	
300	4.22	2.61	2.18	1.96	1.76	1.77	1.41	1.42	
400	2.52	1.44	1.21	1.09	0.98	0.90	0.84	0.90	
500	1.22	0.70	0.69	0.62	0.57	0.46	0.53	0.59	

OXYGEN (ML/L) LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	5.40	5.48	5.63	5.69	5.64	5.65	5.75	5.64	5.85	5.91	5.87	5.85	5.84	5.87	6.07
10	5.43	5.46	5.62	5.71	5.68	5.67	5.76	5.77	5.87	5.88	5.87	5.87	5.88	5.91	5.96
20	5.44	5.45	5.64	5.71	5.65	5.69	5.76	5.76	5.87	5.89	5.86	5.87	5.80	5.86	5.86
30	5.43	5.45	5.64	5.70	5.63	5.69	5.78	5.75	5.85	5.84	5.83	5.60	5.69	5.73	5.72
50	5.40	5.44	5.61	5.64	5.67	5.69	5.71	5.70	5.67	5.68	5.45	5.00	5.05	5.07	5.03
75	5.40	5.41	5.60	5.58	5.71	5.58	5.62	5.29	5.16	4.95	4.65	4.18	4.27	4.17	3.94
100	5.38	5.44	5.62	5.66	5.65	5.40	5.29	4.70	4.50	4.28	3.88	3.64	3.68	3.55	3.56
125	5.31	5.37	5.47	5.65	5.27	4.92	4.72	4.13	3.80	3.64	3.30	3.11	3.21	3.06	3.33
150	5.16	5.21	5.25	5.37	4.83	4.43	4.24	3.64	3.38	3.15	2.92	2.73	2.85	2.74	2.90
200	4.94	4.71	4.74	4.55	3.89	3.63	3.25	2.81	2.71	2.69	2.20	2.08	2.28	2.06	2.17
250	4.31	4.00	4.26	3.78	3.30	2.79	2.78	2.26	2.14	2.17	1.70	1.59	1.72	1.61	
300	3.41	3.16	3.41	3.07	2.59	2.03	2.15	1.72	1.56	1.65	1.31	1.23	1.34	1.26	
400	1.95	1.71	1.72	1.54	1.43	1.04	1.11	0.95	0.84	0.83	0.76	0.70	0.80	0.76	
500	1.00	0.89	0.86	0.71	0.80	0.55	0.63	0.54	0.52	0.50	0.51	0.46	0.50	0.47	





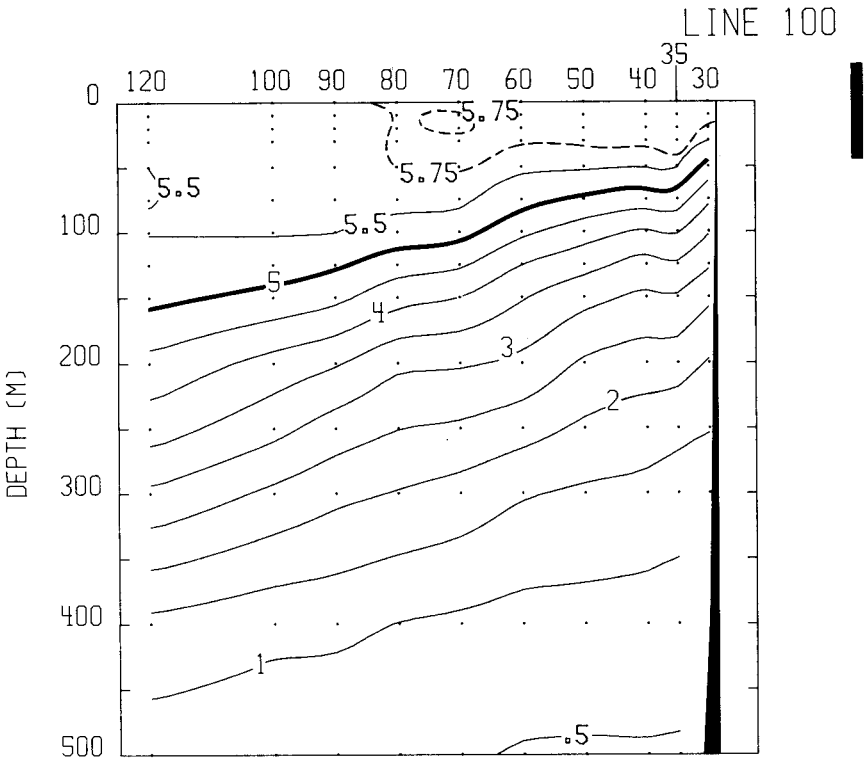
JANUARY
OXYGEN

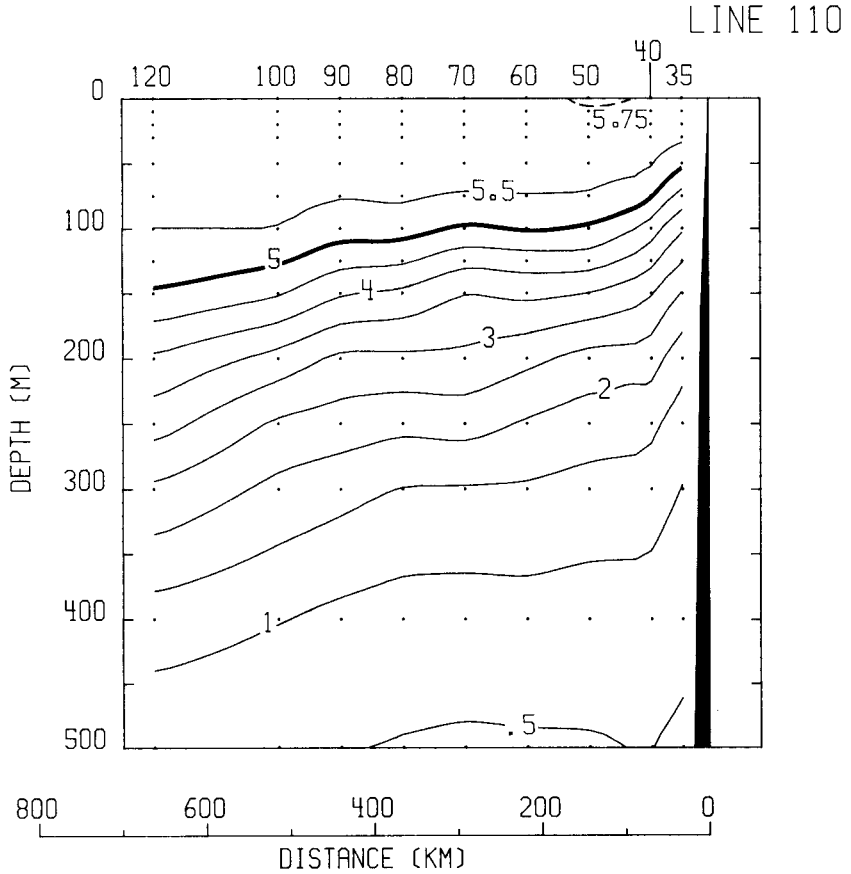
OXYGEN (ML/L) LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	5.49	5.64	5.62	5.87	5.82	5.80	5.82	5.81	5.84	5.94
10	5.53	5.66	5.40	5.73	5.71	5.79	5.80	5.85	5.83	5.91
20	5.53	5.65	5.48	5.75	5.73	5.79	5.80	5.85	5.84	5.71
30	5.52	5.64	5.66	5.75	5.76	5.75	5.78	5.79	5.85	5.45
50	5.49	5.67	5.65	5.73	5.76	5.57	5.58	5.53	5.73	4.61
75	5.48	5.61	5.67	5.67	5.65	5.14	4.85	4.72	4.93	3.85
100	5.54	5.55	5.55	5.30	5.26	4.56	4.22	3.86	4.16	3.35
125	5.35	5.28	5.08	4.75	4.60	3.91	3.70	3.26	3.54	2.91
150	5.14	4.85	4.66	4.23	4.02	3.50	3.18	2.88	3.02	2.48
200	4.36	3.80	3.55	3.17	3.06	2.93	2.44	2.23	2.27	1.89
250	3.74	3.15	2.76	2.56	2.45	2.21	1.92	1.76	1.64	1.49
300	2.92	2.38	2.13	2.01	1.80	1.53	1.41	1.40	1.25	1.24
400	1.37	1.14	1.14	0.98	0.91	0.82	0.80	0.76	0.72	
500	0.73	0.64	0.58	0.55	0.53	0.47	0.45	0.47	0.45	

OXYGEN (ML/L) LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	5.65	5.61	5.56	5.56	5.70	5.71	5.78	5.74	5.67
10	5.62	5.61	5.53	5.60	5.66	5.74	5.75	5.74	5.69
20	5.62	5.61	5.53	5.61	5.66	5.73	5.73	5.74	5.67
30	5.60	5.61	5.54	5.61	5.66	5.72	5.72	5.73	5.62
50	5.56	5.62	5.59	5.61	5.62	5.69	5.68	5.66	5.02
75	5.52	5.63	5.56	5.59	5.51	5.53	5.51	5.15	4.18
100	5.51	5.53	5.19	5.27	4.94	5.08	4.97	4.33	3.40
125	5.36	5.08	4.63	4.59	4.10	4.23	4.19	3.74	2.90
150	4.95	4.57	4.03	3.89	3.44	3.62	3.41	3.10	2.34
200	3.93	3.31	2.84	2.89	2.82	2.62	2.27	2.30	1.59
250	3.23	2.39	2.27	2.12	2.18	2.02	1.71	1.71	1.17
300	2.42	1.86	1.67	1.45	1.42	1.51	1.33	1.30	0.94
400	1.26	1.01	0.86	0.77	0.75	0.80	0.73	0.75	0.60
500	0.62	0.56	0.50	0.47	0.43	0.46	0.46	0.52	0.41





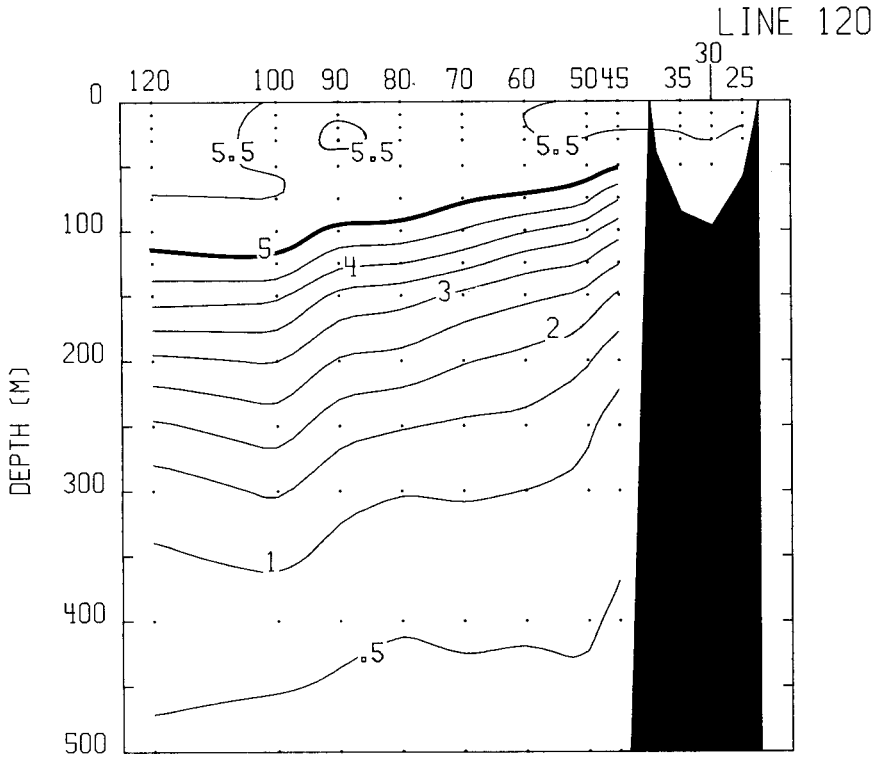
JANUARY
OXYGEN

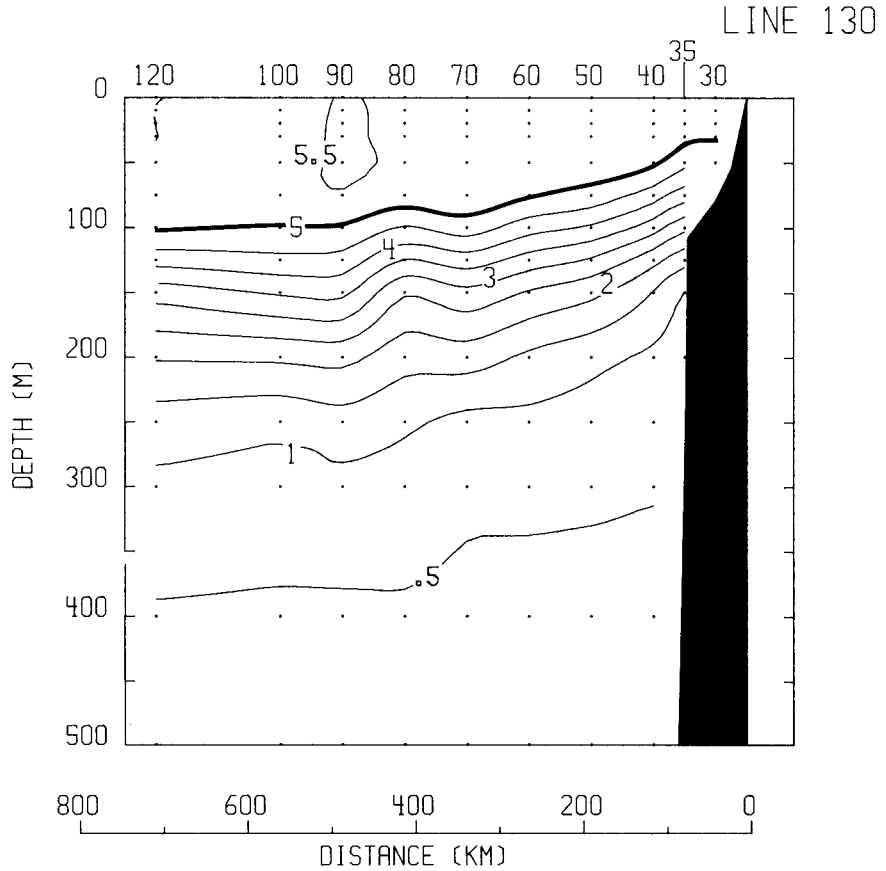
OXYGEN (ML/L) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	5.54	5.50	5.44	5.44	5.49	5.49	5.49	5.57	5.52	5.61	5.63
10	5.55	5.48	5.52	5.49	5.48	5.51	5.53	5.58	5.55	5.63	5.60
20	5.56	5.48	5.51	5.49	5.45	5.50	5.54	5.53	5.52	5.57	5.51
30	5.56	5.47	5.50	5.49	5.42	5.49	5.52	5.46	5.47	5.59	5.29
50	5.52	5.49	5.49	5.51	5.37	5.49	5.36	5.05	5.29	5.16	
75	5.51	5.54	5.43	5.43	5.08	4.99	4.78	3.90			
100	5.31	5.36	4.85	4.84	4.50	4.04	3.70	3.11			
125	4.80	4.98	4.10	4.03	3.68	3.17	3.00	2.44			
150	4.23	4.10	3.30	3.20	2.83	2.60	2.40	1.82			
200	2.85	3.04	2.41	2.35	2.02	1.86	1.58	1.10			
250	1.90	2.27	1.66	1.52	1.41	1.38	1.10	0.72			
300	1.21	1.57	1.13	1.00	1.05	0.99	0.89	0.59			
400	0.67	0.68	0.56	0.52	0.55	0.54	0.56	0.41			
500	0.44	0.36	0.39	0.35	0.36	0.34	0.36	0.32			

OXYGEN (ML/L) LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	5.52	5.41	5.51	5.45	5.44	5.34	5.41	5.43	5.26	5.35
10	5.49	5.36	5.54	5.45	5.43	5.40	5.38	5.41	5.27	5.28
20	5.51	5.37	5.55	5.44	5.45	5.45	5.41	5.41	5.20	5.27
30	5.51	5.37	5.55	5.42	5.47	5.45	5.42	5.43	5.07	5.14
50	5.49	5.39	5.55	5.49	5.49	5.42	5.31	5.28	4.56	4.31
75	5.49	5.44	5.55	5.31	5.44	5.09	4.89	4.27	3.64	
100	5.11	4.99	5.04	4.40	4.87	4.19	3.94	3.28	2.48	
125	4.21	4.40	4.36	3.39	3.80	3.24	2.93	2.13	1.54	
150	3.18	3.57	3.72	2.40	2.89	2.40	2.13	1.48	0.82	
200	2.03	2.07	2.17	1.64	1.76	1.37	1.13	0.88	0.77	
250	1.26	1.09	1.31	1.09	0.81	0.87	0.77	0.60	0.50	
300	0.88	0.78	0.84	0.75	0.57	0.58	0.57	0.52	0.45	
400	0.45	0.42	0.41	0.44	0.38	0.37	0.34	0.35	0.35	
500	0.34	0.28	0.33	0.32	0.30	0.28	0.27	0.29	0.28	





JANUARY
OXYGEN

PERCENT OXYGEN SATURATION LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	100.8	99.1	100.3	98.5	100.3	100.9	100.5	100.7	99.8	100.8	102.8
10	101.9	99.6	100.5	99.2	98.6	100.4	99.0	101.1	99.5	101.7	100.8
20	101.8	99.5	100.4	99.3	98.8	100.1	99.9	100.3	99.2	100.0	98.2
30	101.5	99.4	100.2	99.3	99.0	99.7	99.1	99.9	98.3	98.2	94.5
50	101.5	99.4	99.4	99.6	99.1	99.3	95.4	98.1	94.0	90.0	83.4
75	100.5	99.0	98.2	99.8	96.0	91.7	83.3	84.9	76.3	72.3	
100	100.8	98.8	98.5	96.9	92.1	80.0	64.0	69.9	61.2	59.1	
125	94.9	96.3	92.1	90.1	81.5	70.2	54.9	57.8	53.6	50.3	
150	87.2	92.9	83.6	83.2	73.9	62.1	49.9	49.9	47.3	44.4	
200	62.2	78.0	68.3	67.0	67.3	49.6	42.7	38.5	41.4	35.7	
250	53.5	60.5	62.0	59.5	57.0	40.6	33.9	34.0	32.0	29.2	
300	47.5	51.7	53.4	53.7	42.8	30.9	26.5	28.5	24.5	23.1	
400	33.4	36.1	35.0	33.7	22.8	19.0	16.2	16.8	13.4	13.4	
500	19.3	21.0	18.0	18.0	12.7	10.2	9.5	10.0	8.2	8.3	

PERCENT OXYGEN SATURATION LINE 070 JANUARY

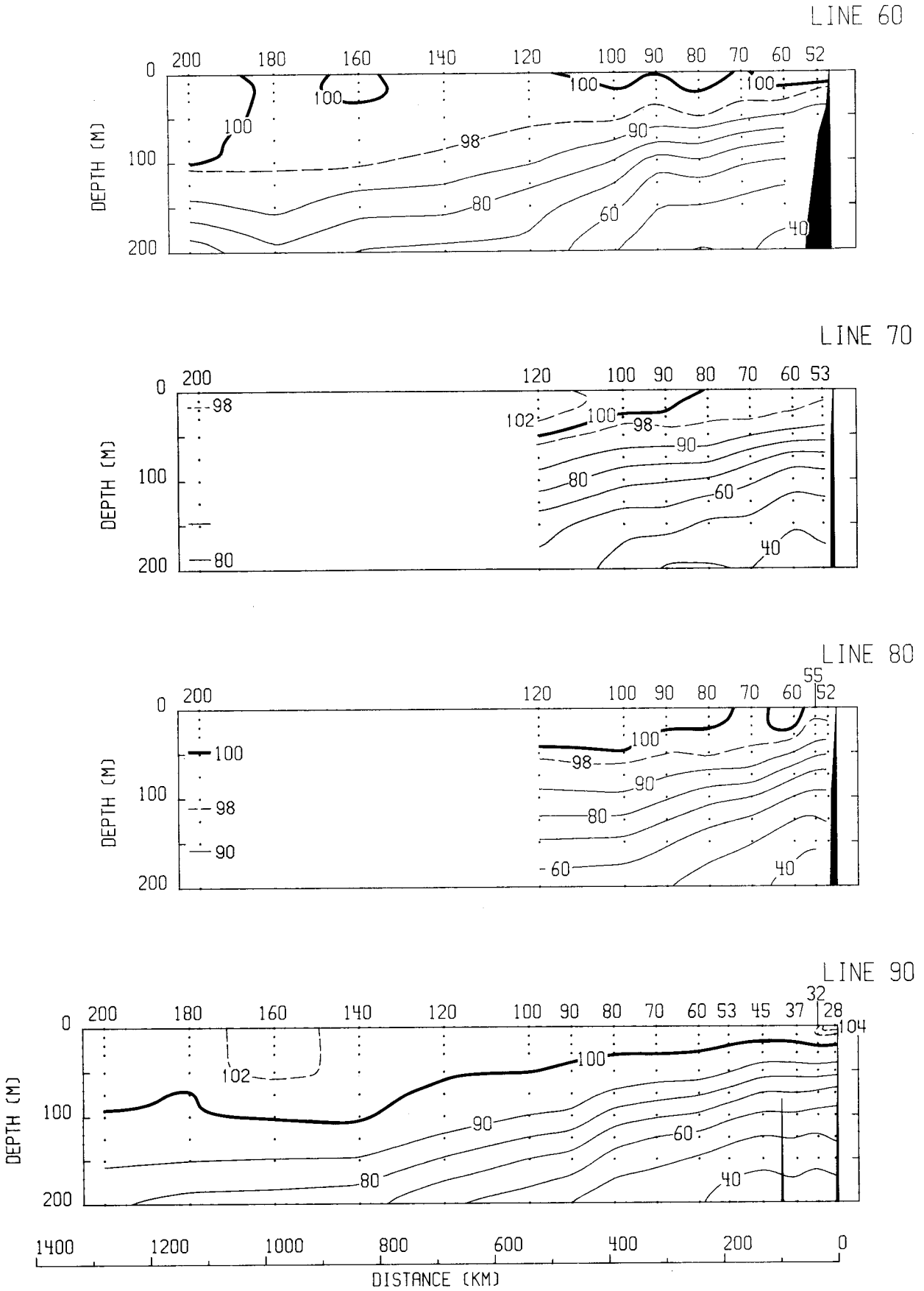
DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	99.1	102.7	100.6	100.9	100.0	99.3	98.5	98.3
10	98.5	103.2	101.0	100.1	99.8	98.7	98.9	98.8
20	97.8	103.0	100.5	100.3	99.1	98.7	98.4	97.3
30	97.2	102.4	99.7	100.1	98.5	98.4	97.6	94.1
50	97.1	100.6	96.9	96.7	97.1	91.9	87.3	86.0
75	96.6	95.0	85.2	84.1	84.2	74.0	64.5	66.5
100	97.9	86.3	73.0	71.0	69.4	62.0	54.1	55.9
125	93.8	74.7	62.7	62.2	56.6	54.2	46.5	48.9
150	89.6	63.8	52.3	54.3	47.9	48.1	40.4	43.1
200	76.7	57.0	46.1	37.6	38.8	40.1	33.1	37.2
250	69.5	48.0	38.3	31.9	31.0	32.1	27.3	29.7
300	62.0	33.1	31.3	23.7	25.4	25.6	20.5	22.9
400	37.2	18.1	14.6	13.8	14.5	13.6	11.6	13.4
500	16.4	11.3	8.3	8.2	7.9	7.8	7.3	7.9

PERCENT OXYGEN SATURATION LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	100.2	101.7	100.4	100.3	101.6	98.9	101.6	98.9	100.3
10	100.2	100.5	100.6	100.8	100.7	99.2	101.1	98.1	99.9
20	100.4	101.3	100.4	100.2	99.8	99.6	101.0	96.1	97.5
30	100.5	101.3	100.4	99.6	100.3	99.4	99.9	94.5	93.6
50	99.9	99.2	100.4	98.0	98.5	97.4	91.4	82.1	81.6
75	99.2	94.9	96.2	91.1	87.8	87.1	72.1	65.7	67.0
100	99.9	86.9	88.6	81.5	73.5	69.8	59.0	56.6	57.8
125	95.5	78.6	78.3	70.2	63.1	58.2	49.8	47.6	52.8
150	91.6	68.7	67.7	61.2	54.4	50.4	43.6	40.4	45.2
200	81.9	54.5	52.4	50.0	44.7	42.7	35.3	32.7	
250	73.9	44.5	41.0	40.4	33.8	34.2	27.7	26.9	
300	64.4	38.5	32.2	29.4	26.0	26.5	21.0	21.7	
400	36.8	20.8	17.5	15.8	14.1	13.1	12.3	13.4	
500	17.5	9.9	9.8	8.8	8.1	6.5	7.7	8.5	

PERCENT OXYGEN SATURATION LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	100.8	101.2	102.7	101.4	100.4	101.0	101.1	99.5	100.8	101.9	100.9	100.9	100.9	101.4	104.3
10	101.3	100.7	102.5	101.6	101.1	101.1	101.2	101.1	101.1	101.1	100.8	101.1	101.5	102.0	102.1
20	101.4	100.6	102.7	101.5	100.5	101.2	101.1	100.5	101.0	101.1	99.9	100.9	99.8	101.4	100.1
30	101.4	100.6	102.8	101.5	100.0	101.1	101.2	100.1	100.5	100.3	99.2	96.0	97.4	99.1	97.1
50	100.7	100.6	102.2	101.0	100.2	100.5	99.0	98.5	95.9	96.8	91.4	84.5	83.8	85.8	83.7
75	100.3	99.8	101.5	100.9	99.7	96.2	95.7	88.2	84.4	81.3	75.8	68.1	69.6	68.1	64.0
100	99.9	99.9	100.6	101.0	96.8	90.1	88.1	75.3	71.1	68.7	61.9	58.1	59.0	56.6	57.0
125	97.4	96.1	95.9	97.6	88.0	79.3	76.1	64.0	58.9	57.1	51.7	48.8	50.5	47.5	52.5
150	91.8	90.4	89.6	89.0	78.7	69.2	66.4	55.6	52.2	48.5	45.4	42.5	44.5	41.7	45.3
200	80.7	76.0	75.2	73.1	60.3	54.6	48.9	42.1	41.2	40.9	33.1	31.9	35.6	31.3	33.6
250	67.1	61.9	65.5	57.8	49.6	40.6	41.0	33.2	32.1	32.7	25.1	24.2	26.5	24.5	
300	51.9	47.7	51.3	46.0	37.4	28.5	31.0	25.0	23.1	24.4	19.2	18.5	20.4	19.0	
400	28.6	25.1	25.1	22.3	19.5	14.1	15.8	13.4	12.3	11.8	11.0	10.3	12.0	11.2	
500	14.3	12.8	12.2	10.1	10.7	7.3	8.8	7.6	7.5	7.2	7.4	6.7	7.3	6.8	



JANUARY
PERCENT OXYGEN SATURATION

PERCENT OXYGEN SATURATION LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	101.4	100.8	100.8	104.3	103.3	102.1	102.0	101.8	103.1	103.1
10	101.1	101.2	96.8	101.8	101.3	101.6	101.9	102.6	102.7	102.3
20	101.1	101.1	98.2	101.9	101.3	101.3	101.8	102.1	102.4	98.2
30	101.1	100.7	101.5	101.9	101.5	100.1	101.5	100.6	102.4	93.2
50	100.9	100.6	101.1	101.0	100.9	95.5	97.2	94.2	99.1	77.1
75	100.2	99.5	100.4	98.1	97.2	84.6	80.4	76.9	81.8	62.9
100	99.6	94.9	94.7	90.3	87.4	72.4	67.7	62.3	67.2	55.0
125	93.8	87.7	84.0	79.1	74.6	60.7	58.5	52.5	56.4	47.2
150	87.5	77.9	74.6	69.1	64.2	53.8	49.7	45.9	47.5	39.7
200	68.8	57.7	54.0	49.6	47.8	44.0	37.2	34.9	35.2	29.7
250	57.5	46.8	41.3	39.4	37.4	33.3	28.4	27.1	25.1	23.2
300	43.6	34.4	31.3	30.4	27.1	23.1	20.3	21.4	18.9	19.3
400	19.6	15.9	16.3	14.4	13.5	11.9	11.6	11.1	10.7	
500	10.3	8.7	8.3	7.8	7.6	6.7	6.4	6.8	6.5	

PERCENT OXYGEN SATURATION LINE 110 JANUARY

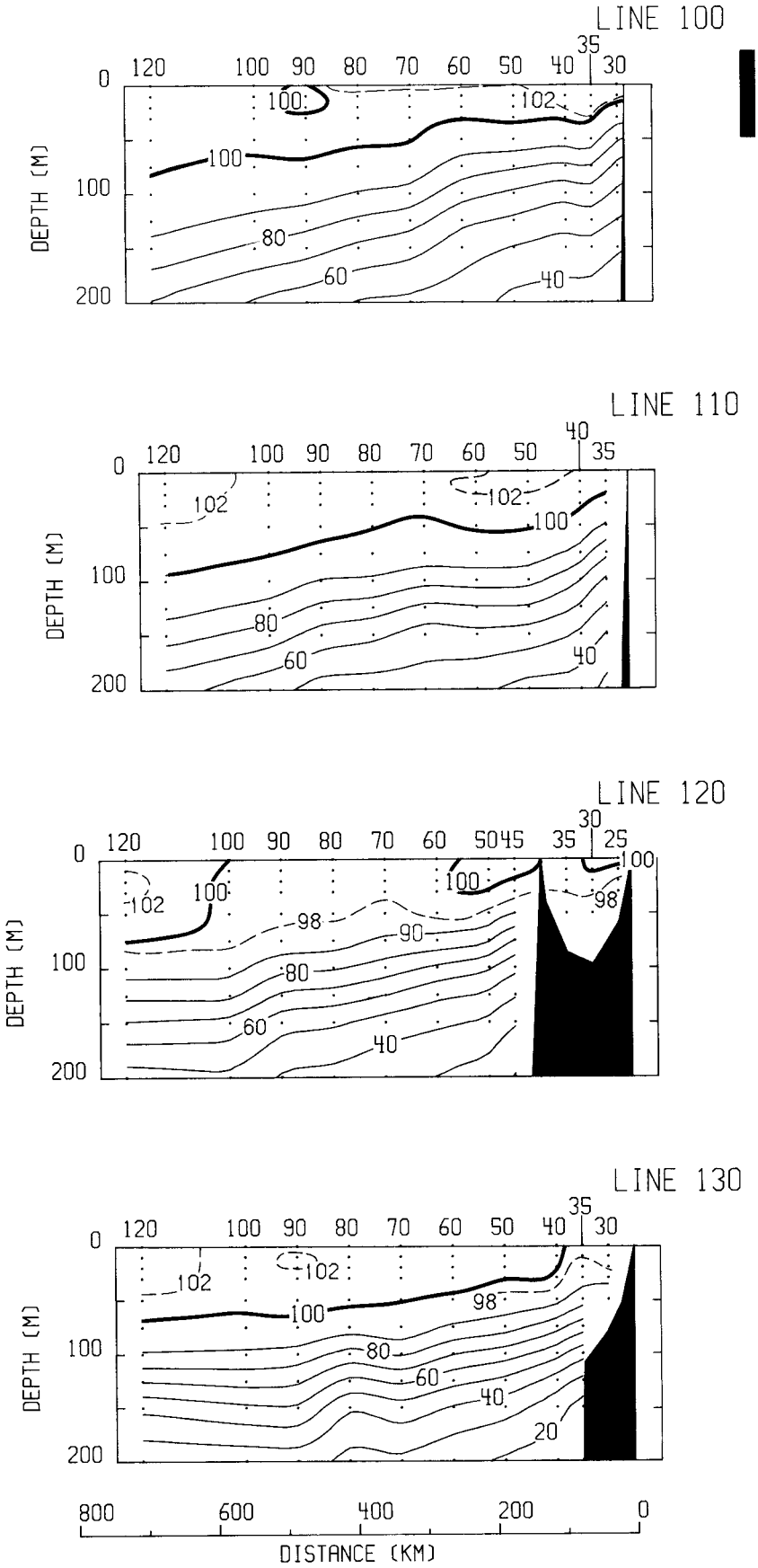
DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	103.6	101.3	100.6	99.9	101.4	102.1	103.2	102.1	100.7
10	103.0	101.3	100.0	100.6	100.6	102.7	102.6	101.9	101.1
20	102.9	101.2	100.0	100.7	100.6	102.4	102.2	101.9	100.3
30	102.6	101.2	100.1	100.7	100.3	102.3	102.0	101.6	98.9
50	101.9	101.1	100.8	100.3	99.5	101.4	101.0	99.7	87.3
75	101.2	100.6	99.7	98.7	96.1	97.2	96.6	87.6	69.8
100	100.0	97.3	89.1	88.9	83.1	85.1	83.5	71.0	55.4
125	94.3	86.4	77.2	75.1	66.6	68.8	68.0	59.9	46.5
150	84.4	75.4	65.1	62.1	54.7	57.5	54.2	48.9	37.2
200	62.3	52.0	44.6	44.8	43.7	40.8	35.5	35.6	25.0
250	49.8	36.8	34.9	32.4	33.4	30.9	26.3	26.1	18.2
300	36.7	28.1	25.2	22.0	21.6	22.8	20.1	19.7	14.3
400	18.7	15.0	12.7	11.3	11.2	11.8	10.9	11.1	9.0
500	8.9	8.1	7.3	6.8	6.3	6.7	6.7	7.6	6.0

PERCENT OXYGEN SATURATION LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	101.9	100.2	98.7	99.1	100.0	99.4	100.3	100.8	99.0	100.5	100.6
10	102.0	99.6	100.1	99.9	100.1	99.8	101.0	101.0	99.4	100.8	99.9
20	102.1	99.6	99.8	99.8	99.2	99.6	101.1	99.8	98.9	99.6	97.9
30	102.1	99.5	99.6	99.9	98.7	99.4	100.6	98.3	98.0	99.7	93.3
50	101.5	99.7	99.1	99.7	96.7	98.7	97.9	89.6	93.4	91.9	
75	101.0	99.4	96.9	95.9	88.6	87.6	84.1	65.9			
100	94.9	94.1	82.6	81.5	75.6	67.8	61.5	51.1			
125	81.7	83.4	67.5	65.8	60.1	51.7	48.6	39.3			
150	69.4	66.7	52.9	51.2	45.2	41.5	38.3	29.2			
200	44.9	47.6	37.5	36.6	31.6	29.1	25.1	17.4			
250	29.4	34.8	25.6	23.4	21.8	21.4	17.0	11.4			
300	18.4	23.9	17.2	15.3	15.9	15.1	13.3	9.2			
400	9.9	10.1	8.3	7.7	8.2	8.0	8.2	6.2			
500	6.4	5.2	5.6	5.1	5.2	5.0	5.0	4.7			

PERCENT OXYGEN SATURATION LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	102.9	101.6	101.8	101.6	100.8	100.0	100.7	101.3	97.9	99.7
10	102.4	100.6	102.2	101.6	100.3	100.8	100.2	100.7	98.1	98.2
20	102.6	100.5	102.0	101.3	100.5	101.7	100.5	100.8	96.5	98.1
30	102.6	100.3	101.9	100.8	100.6	101.7	100.5	100.9	93.9	95.4
50	101.9	100.3	101.7	101.8	100.4	100.1	97.1	96.1	82.7	78.8
75	99.8	99.6	99.7	95.0	98.5	89.4	85.6	74.5	63.2	
100	89.4	88.0	86.2	75.3	83.0	70.0	65.2	54.7	41.3	
125	70.1	73.7	72.3	56.1	62.3	52.6	47.6	35.0	25.5	
150	51.6	58.1	59.8	39.0	46.3	38.4	34.2	24.0	13.6	
200	32.0	32.8	34.2	25.9	27.7	21.6	17.9	14.2	12.4	
250	19.7	17.2	20.4	17.0	12.7	13.6	12.1	9.5	8.0	
300	13.4	12.0	13.0	11.5	8.9	9.0	8.9	8.1	7.0	
400	6.7	6.3	6.2	6.7	5.7	5.6	5.2	5.4	5.3	
500	5.0	4.1	4.9	4.7	4.4	4.1	3.9	4.2	4.1	



JANUARY
PERCENT OXYGEN SATURATION

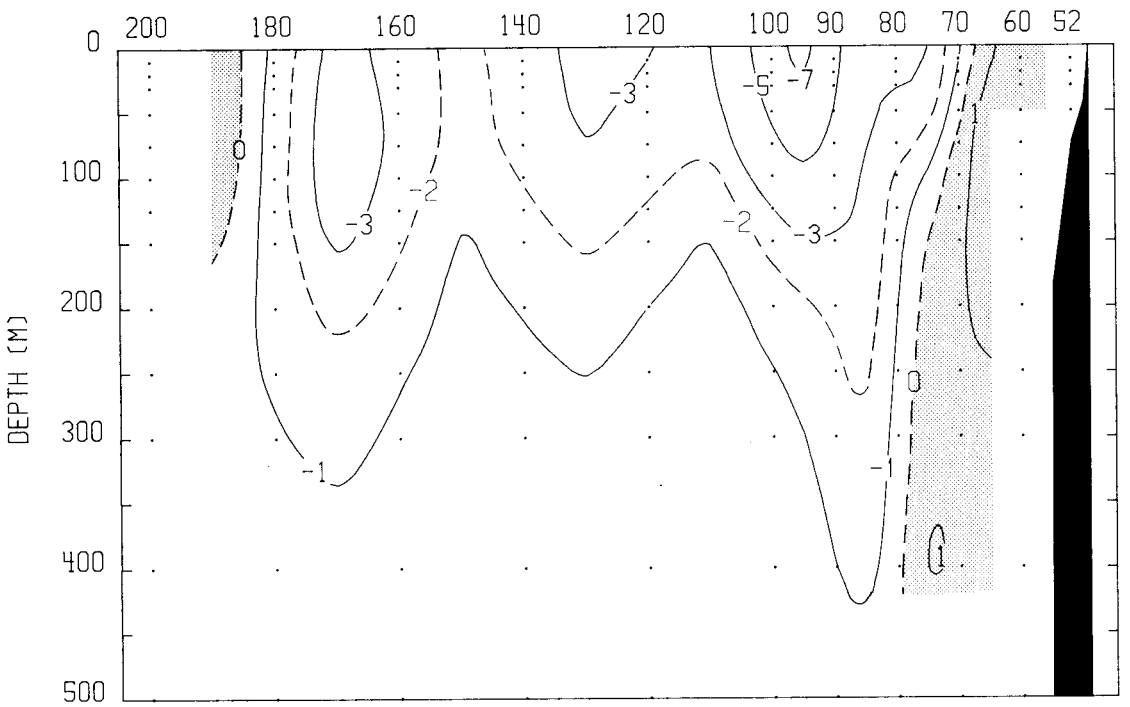
DYNAMIC HT ANOMALY (DYN. M) LINE 060 JANUARY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	1.042	1.054	1.012	0.992	0.950	0.915	0.864	0.843	0.821	0.827	0.838
10	1.010	1.022	0.979	0.959	0.917	0.883	0.834	0.813	0.792	0.799	0.809
20	0.978	0.990	0.946	0.926	0.885	0.852	0.804	0.783	0.763	0.772	0.780
30	0.946	0.958	0.913	0.894	0.853	0.821	0.774	0.754	0.735	0.744	0.753
50	0.883	0.894	0.848	0.828	0.788	0.759	0.715	0.695	0.679	0.691	0.701
75	0.804	0.815	0.768	0.748	0.710	0.685	0.647	0.627	0.616	0.630	
100	0.727	0.737	0.691	0.675	0.638	0.618	0.587	0.569	0.563	0.575	
125	0.657	0.664	0.620	0.607	0.575	0.560	0.535	0.517	0.515	0.526	
150	0.592	0.596	0.556	0.546	0.518	0.507	0.488	0.470	0.471	0.482	
200	0.481	0.477	0.448	0.440	0.422	0.415	0.403	0.387	0.390	0.398	
250	0.385	0.378	0.358	0.351	0.338	0.334	0.326	0.311	0.316	0.322	
300	0.297	0.291	0.275	0.271	0.261	0.260	0.254	0.240	0.246	0.251	
400	0.139	0.136	0.129	0.128	0.123	0.123	0.120	0.110	0.119	0.119	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

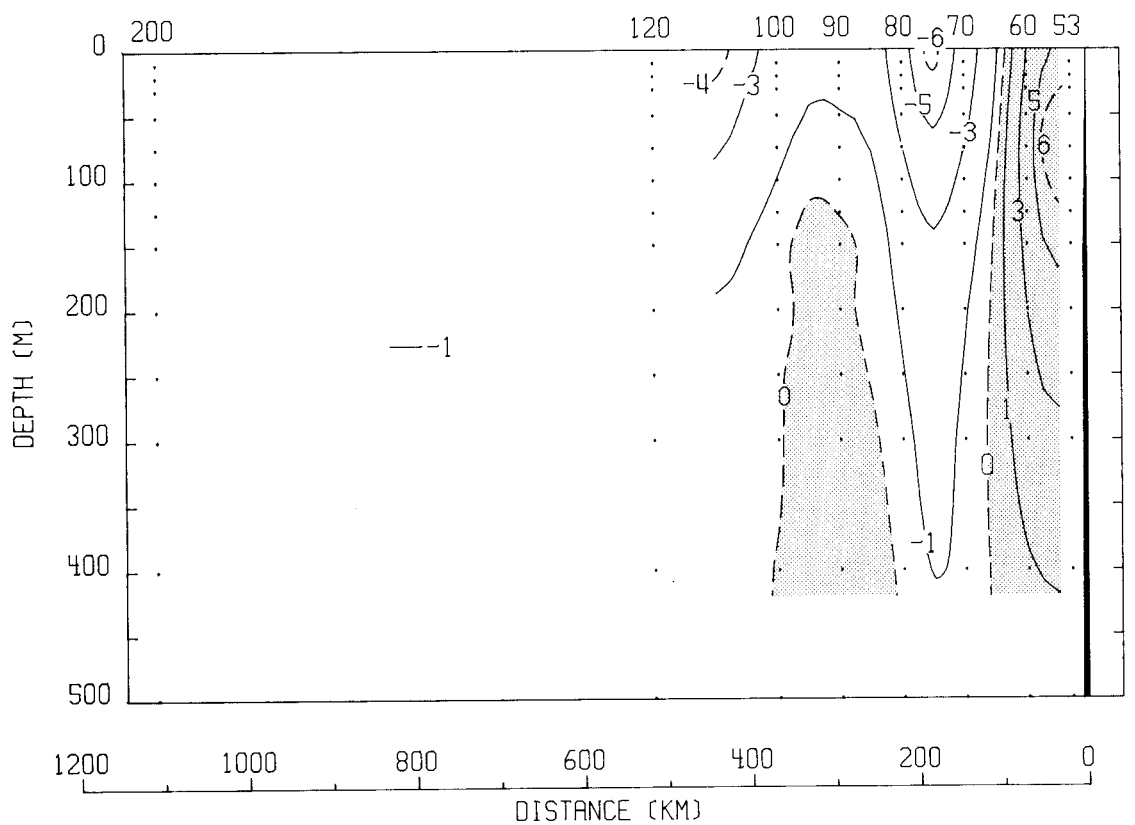
DYNAMIC HT ANOMALY (DYN. M) LINE 070 JANUARY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	1.039	0.946	0.891	0.882	0.872	0.828	0.818	0.841
10	1.008	0.913	0.860	0.852	0.842	0.799	0.790	0.814
20	0.977	0.880	0.829	0.821	0.812	0.771	0.763	0.788
30	0.946	0.847	0.797	0.791	0.783	0.743	0.735	0.761
50	0.884	0.782	0.736	0.732	0.725	0.688	0.681	0.710
75	0.807	0.705	0.664	0.662	0.657	0.625	0.620	0.650
100	0.731	0.634	0.600	0.600	0.597	0.569	0.567	0.595
125	0.659	0.571	0.544	0.545	0.543	0.520	0.519	0.545
150	0.592	0.514	0.493	0.496	0.495	0.475	0.475	0.499
200	0.473	0.418	0.407	0.408	0.407	0.393	0.394	0.413
250	0.373	0.335	0.327	0.329	0.329	0.317	0.319	0.334
300	0.286	0.260	0.254	0.255	0.257	0.247	0.248	0.260
400	0.133	0.122	0.120	0.121	0.125	0.117	0.118	0.123
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 60



LINE 70



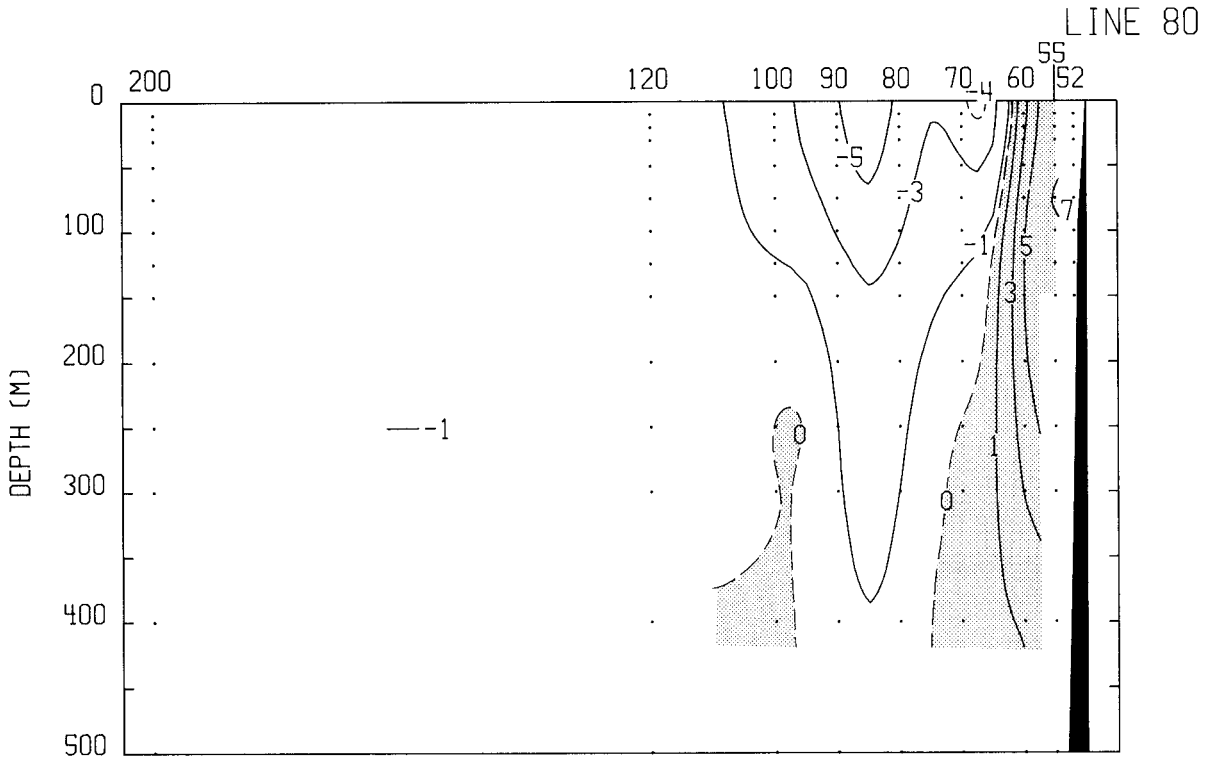
JANUARY
GEOSTROPHIC FLOW (CM/S)

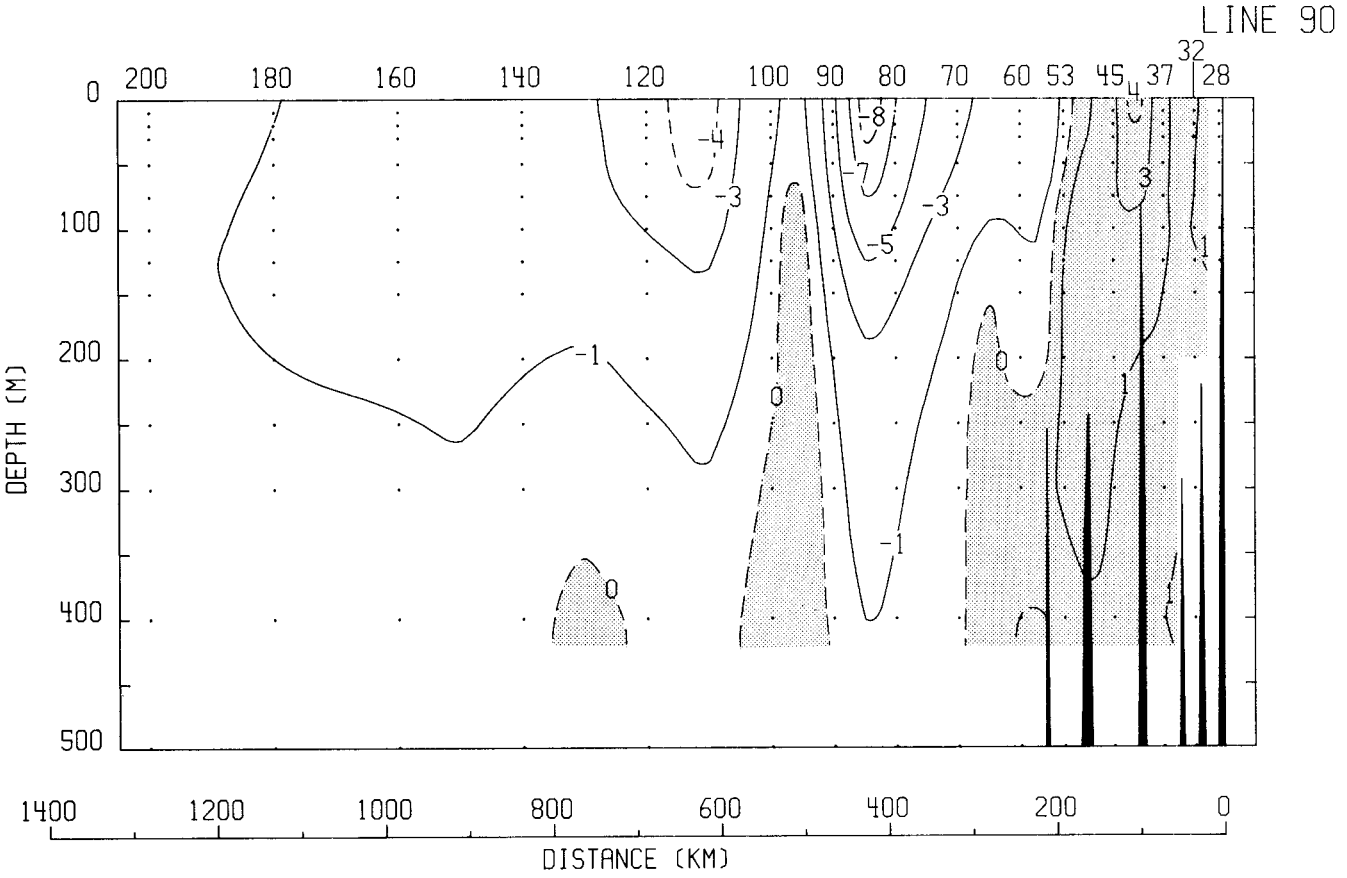
DYNAMIC HT ANOMALY (DYN. M) LINE 080 JANUARY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	1.059	0.943	0.936	0.916	0.878	0.860	0.831	0.849	0.862
10	1.026	0.910	0.903	0.884	0.847	0.830	0.803	0.821	0.833
20	0.995	0.878	0.871	0.853	0.816	0.800	0.774	0.793	0.805
30	0.963	0.845	0.839	0.821	0.785	0.770	0.746	0.765	0.776
50	0.900	0.781	0.775	0.758	0.725	0.711	0.690	0.712	0.723
75	0.822	0.704	0.698	0.684	0.654	0.642	0.627	0.651	0.661
100	0.746	0.633	0.627	0.617	0.590	0.580	0.572	0.596	0.604
125	0.673	0.569	0.564	0.557	0.536	0.526	0.523	0.546	0.551
150	0.605	0.513	0.508	0.504	0.485	0.479	0.477	0.500	0.501
200	0.480	0.415	0.412	0.411	0.397	0.393	0.394	0.415	
250	0.376	0.332	0.330	0.330	0.318	0.316	0.318	0.336	
300	0.286	0.256	0.256	0.256	0.246	0.244	0.248	0.261	
400	0.132	0.120	0.121	0.121	0.114	0.115	0.118	0.123	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 090 JANUARY

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	1.069	1.068	1.051	1.035	1.004	0.953	0.954	0.901	0.873	0.859	0.849	0.853	0.875	0.871	0.877
10	1.037	1.035	1.018	1.001	0.971	0.920	0.921	0.869	0.842	0.829	0.819	0.823	0.844	0.841	0.847
20	1.006	1.003	0.985	0.968	0.938	0.887	0.889	0.837	0.811	0.798	0.790	0.794	0.814	0.812	0.817
30	0.974	0.971	0.952	0.934	0.905	0.855	0.857	0.806	0.781	0.769	0.760	0.765	0.785	0.782	0.788
50	0.911	0.906	0.887	0.868	0.838	0.790	0.793	0.744	0.721	0.710	0.702	0.709	0.728	0.726	0.732
75	0.833	0.826	0.805	0.785	0.756	0.710	0.715	0.671	0.650	0.643	0.636	0.646	0.663	0.661	0.667
100	0.755	0.747	0.726	0.704	0.679	0.637	0.642	0.604	0.587	0.583	0.578	0.591	0.603	0.603	0.609
125	0.679	0.670	0.650	0.629	0.607	0.571	0.576	0.544	0.532	0.530	0.526	0.540	0.550	0.551	0.554
150	0.607	0.598	0.580	0.561	0.545	0.513	0.518	0.492	0.482	0.483	0.479	0.494	0.501	0.502	0.505
200	0.480	0.472	0.460	0.445	0.436	0.414	0.418	0.402	0.395	0.397	0.394	0.409	0.413	0.415	0.417
250	0.375	0.369	0.361	0.349	0.345	0.331	0.335	0.322	0.318	0.320	0.321	0.331	0.333	0.336	
300	0.285	0.282	0.276	0.267	0.265	0.255	0.260	0.249	0.246	0.248	0.251	0.259	0.259	0.262	
400	0.131	0.130	0.128	0.122	0.124	0.119	0.124	0.117	0.117	0.117	0.117	0.120	0.122	0.127	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





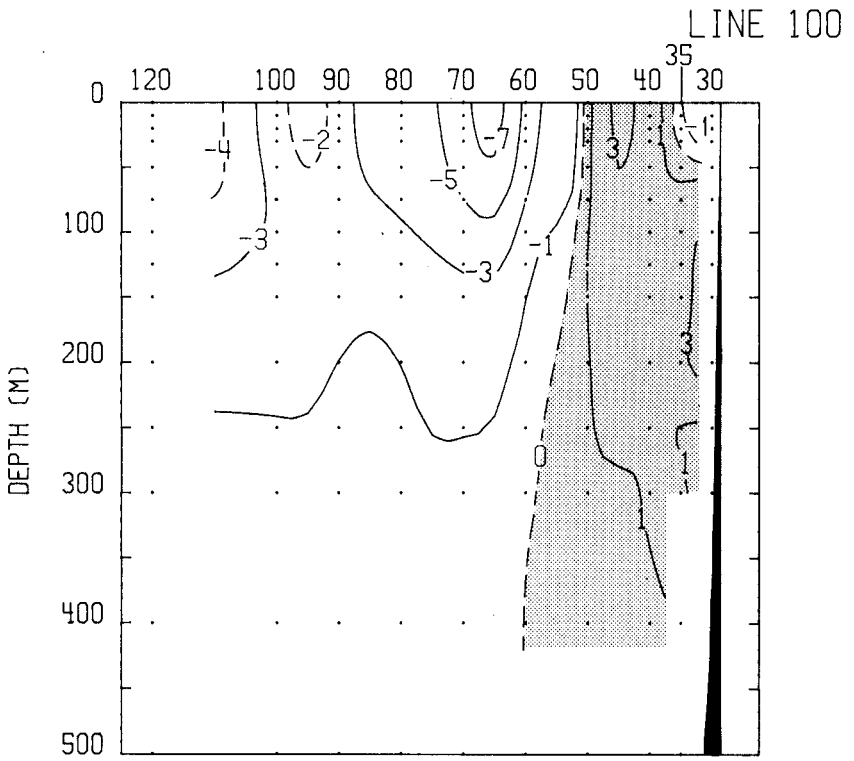
JANUARY
GEOSTROPHIC FLOW (CM/S)

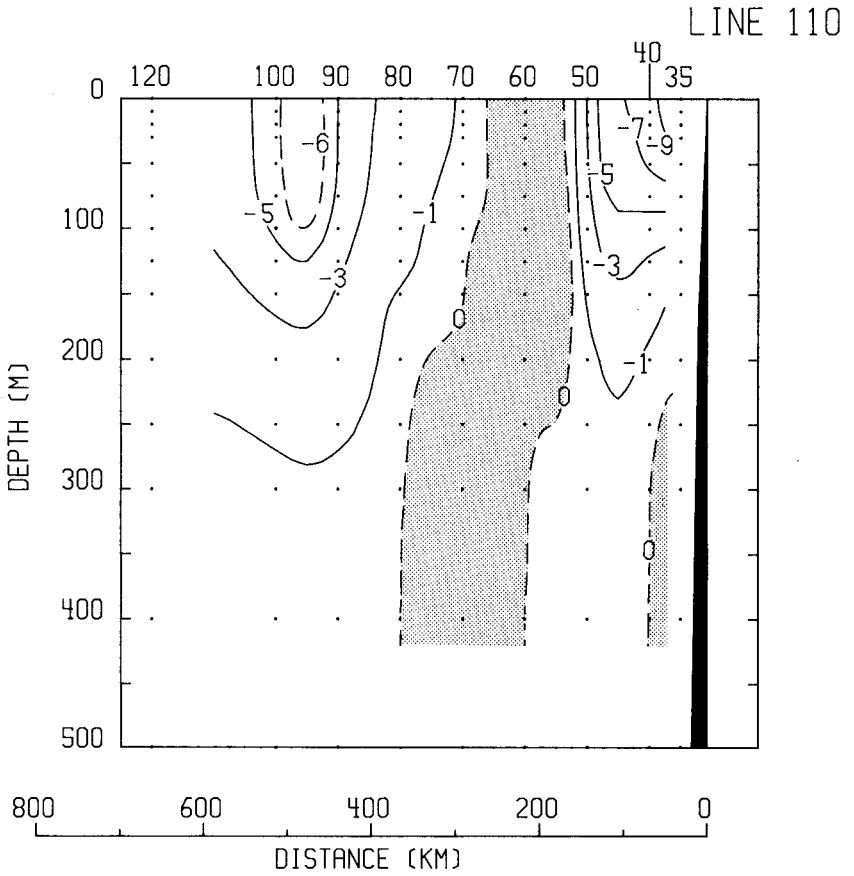
DYNAMIC HT ANOMALY (DYN. M) LINE 100 JANUARY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	1.033	0.987	0.980	0.961	0.936	0.889	0.875	0.893	0.896	0.888
10	0.999	0.954	0.947	0.928	0.903	0.857	0.844	0.862	0.864	0.857
20	0.966	0.921	0.913	0.894	0.870	0.825	0.812	0.831	0.833	0.827
30	0.933	0.888	0.880	0.861	0.838	0.794	0.782	0.799	0.802	0.798
50	0.868	0.823	0.813	0.796	0.773	0.733	0.722	0.739	0.741	0.742
75	0.786	0.743	0.731	0.716	0.695	0.661	0.653	0.669	0.671	0.678
100	0.705	0.666	0.654	0.642	0.624	0.597	0.593	0.608	0.610	0.619
125	0.631	0.596	0.585	0.576	0.561	0.541	0.538	0.552	0.555	0.565
150	0.563	0.534	0.524	0.517	0.505	0.491	0.490	0.502	0.505	0.515
200	0.445	0.428	0.421	0.418	0.410	0.402	0.402	0.411	0.415	0.427
250	0.349	0.340	0.335	0.334	0.328	0.322	0.323	0.331	0.334	0.336
300	0.267	0.262	0.259	0.257	0.253	0.250	0.251	0.254	0.260	0.261
400	0.124	0.123	0.121	0.120	0.119	0.117	0.119	0.120	0.123	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 110 JANUARY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	1.048	1.012	0.977	0.961	0.952	0.954	0.956	0.920	0.892
10	1.015	0.979	0.943	0.928	0.919	0.921	0.923	0.887	0.861
20	0.981	0.945	0.910	0.895	0.886	0.888	0.890	0.855	0.829
30	0.947	0.912	0.877	0.862	0.854	0.855	0.858	0.823	0.798
50	0.880	0.845	0.810	0.795	0.789	0.790	0.793	0.760	0.737
75	0.796	0.763	0.728	0.715	0.710	0.711	0.714	0.685	0.668
100	0.714	0.684	0.651	0.640	0.636	0.638	0.641	0.617	0.607
125	0.638	0.611	0.584	0.576	0.572	0.574	0.577	0.559	0.553
150	0.568	0.546	0.525	0.518	0.515	0.518	0.520	0.506	0.504
200	0.450	0.436	0.425	0.419	0.420	0.421	0.422	0.415	0.415
250	0.354	0.346	0.339	0.334	0.337	0.339	0.339	0.334	0.335
300	0.270	0.266	0.261	0.258	0.261	0.263	0.262	0.259	0.261
400	0.125	0.124	0.123	0.121	0.123	0.125	0.124	0.122	0.123
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





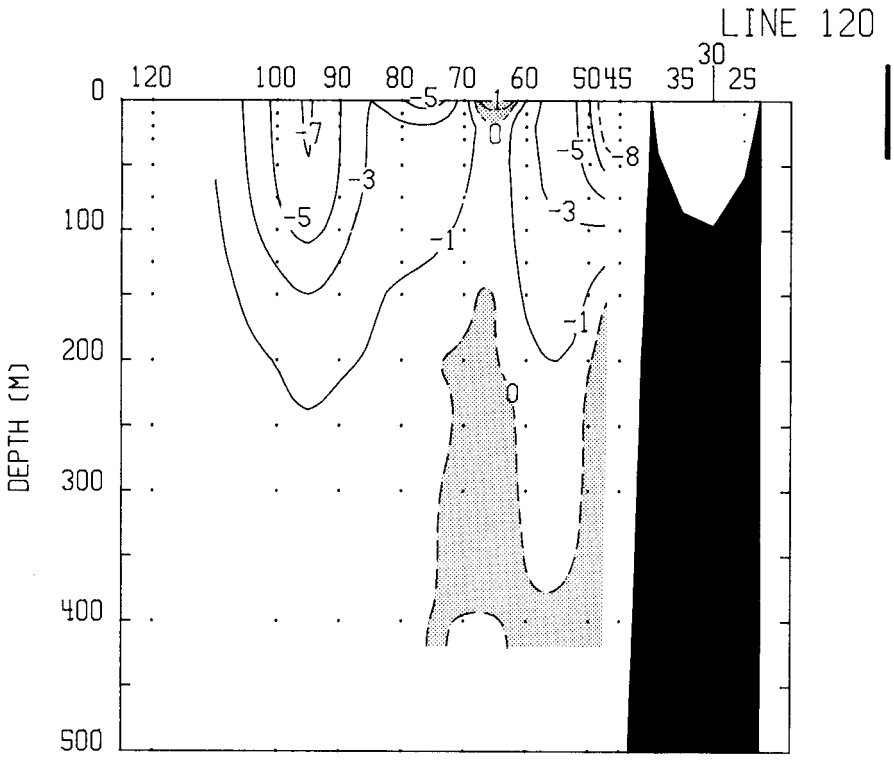
JANUARY
GEOSTROPHIC FLOW (CM/S)

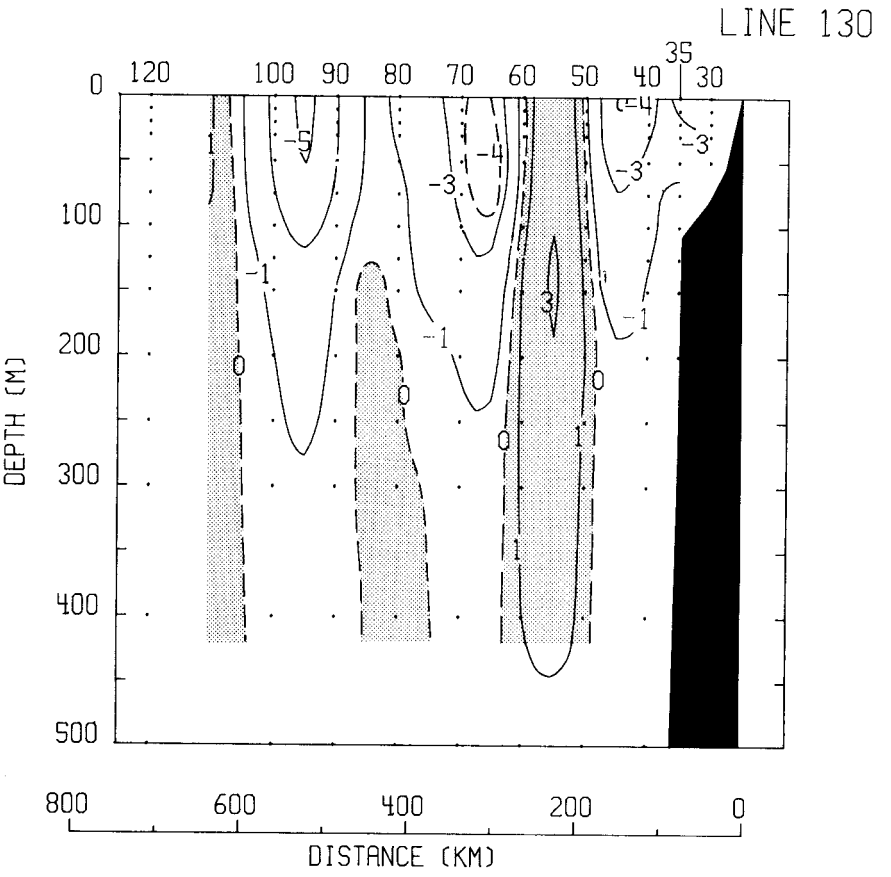
DYNAMIC HT ANOMALY (DYN. M) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045
0	1.009	0.999	0.962	0.951	0.905	0.935	0.916	0.890
10	0.975	0.965	0.929	0.917	0.902	0.902	0.883	0.858
20	0.940	0.931	0.895	0.884	0.869	0.869	0.850	0.826
30	0.906	0.898	0.861	0.850	0.836	0.836	0.818	0.795
50	0.837	0.831	0.795	0.783	0.770	0.770	0.753	0.733
75	0.752	0.747	0.713	0.703	0.692	0.693	0.677	0.664
100	0.671	0.667	0.638	0.630	0.623	0.623	0.609	0.603
125	0.598	0.595	0.573	0.567	0.562	0.563	0.551	0.549
150	0.535	0.532	0.517	0.511	0.508	0.510	0.500	0.501
200	0.428	0.426	0.419	0.415	0.415	0.416	0.411	0.413
250	0.340	0.339	0.334	0.332	0.330	0.334	0.331	0.334
300	0.261	0.261	0.258	0.257	0.256	0.260	0.257	0.260
400	0.123	0.123	0.121	0.121	0.121	0.120	0.121	0.124
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 130 JANUARY

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	0.976	0.989	0.962	0.961	0.949	0.927	0.937	0.918	0.912	0.902
10	0.942	0.954	0.928	0.926	0.915	0.892	0.903	0.884	0.878	0.869
20	0.907	0.919	0.893	0.892	0.882	0.858	0.869	0.850	0.844	0.837
30	0.873	0.885	0.859	0.858	0.848	0.823	0.835	0.817	0.811	0.804
50	0.804	0.817	0.791	0.790	0.782	0.755	0.768	0.751	0.747	0.743
75	0.720	0.732	0.709	0.708	0.701	0.676	0.689	0.676	0.675	
100	0.643	0.653	0.635	0.635	0.628	0.608	0.622	0.611	0.610	
125	0.575	0.584	0.570	0.571	0.565	0.549	0.564	0.555	0.554	
150	0.517	0.524	0.514	0.516	0.510	0.498	0.512	0.505	0.504	
200	0.418	0.424	0.416	0.418	0.417	0.407	0.421	0.417	0.415	
250	0.334	0.340	0.333	0.335	0.334	0.329	0.340	0.336		
300	0.258	0.262	0.258	0.259	0.259	0.255	0.265	0.261		
400	0.121	0.124	0.122	0.122	0.122	0.119	0.127	0.123		
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





JANUARY
GEOSTROPHIC FLOW (CM/S)

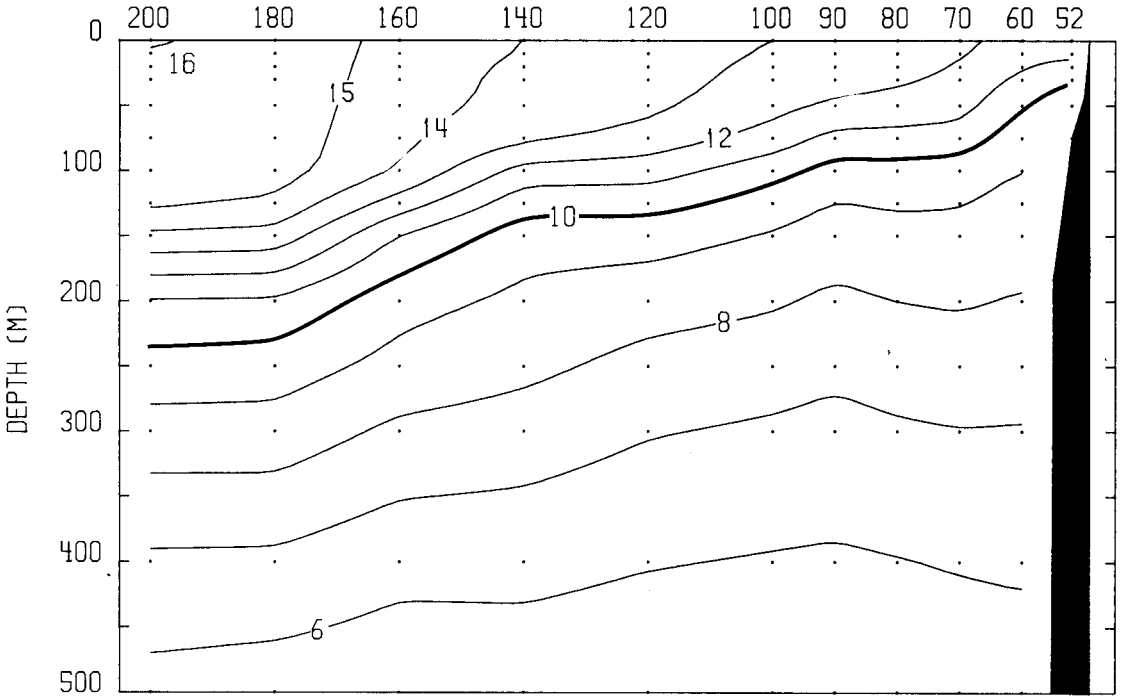
TEMPERATURE (DEG. C) LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	16.13	15.75	14.71	13.99	13.73	13.03	12.98	12.74	12.25	11.59	11.64
10	15.93	15.72	14.61	13.97	13.55	12.88	12.90	12.56	12.09	11.40	11.34
20	15.89	15.74	14.54	13.77	13.50	12.70	12.62	12.38	11.89	11.09	10.60
30	15.90	15.76	14.47	13.76	13.44	12.62	12.36	12.14	11.77	10.75	9.89
50	15.93	15.67	14.31	13.73	13.23	12.30	11.87	11.64	11.39	10.03	9.52
75	15.95	15.55	14.23	13.34	12.65	11.62	10.66	10.65	10.55	9.43	9.05
100	15.97	15.48	13.99	11.58	11.44	10.32	9.53	9.67	9.51	8.96	
125	15.28	14.84	12.55	10.37	10.36	9.55	8.95	9.10	9.02	8.64	
150	13.78	13.64	10.90	9.42	9.42	8.88	8.46	8.67	8.74	8.39	
200	10.85	10.81	9.34	8.77	8.38	8.11	7.80	8.00	8.09	7.92	
250	9.63	9.50	8.66	8.24	7.70	7.45	7.22	7.42	7.52	7.41	
300	8.56	8.57	7.79	7.54	7.06	6.84	6.68	6.87	6.97	6.94	
400	6.83	6.80	6.29	6.27	6.05	5.92	5.87	5.95	6.06	6.12	
500	5.65	5.49	5.33	5.43	5.31	5.35	5.30	5.35	5.46	5.55	

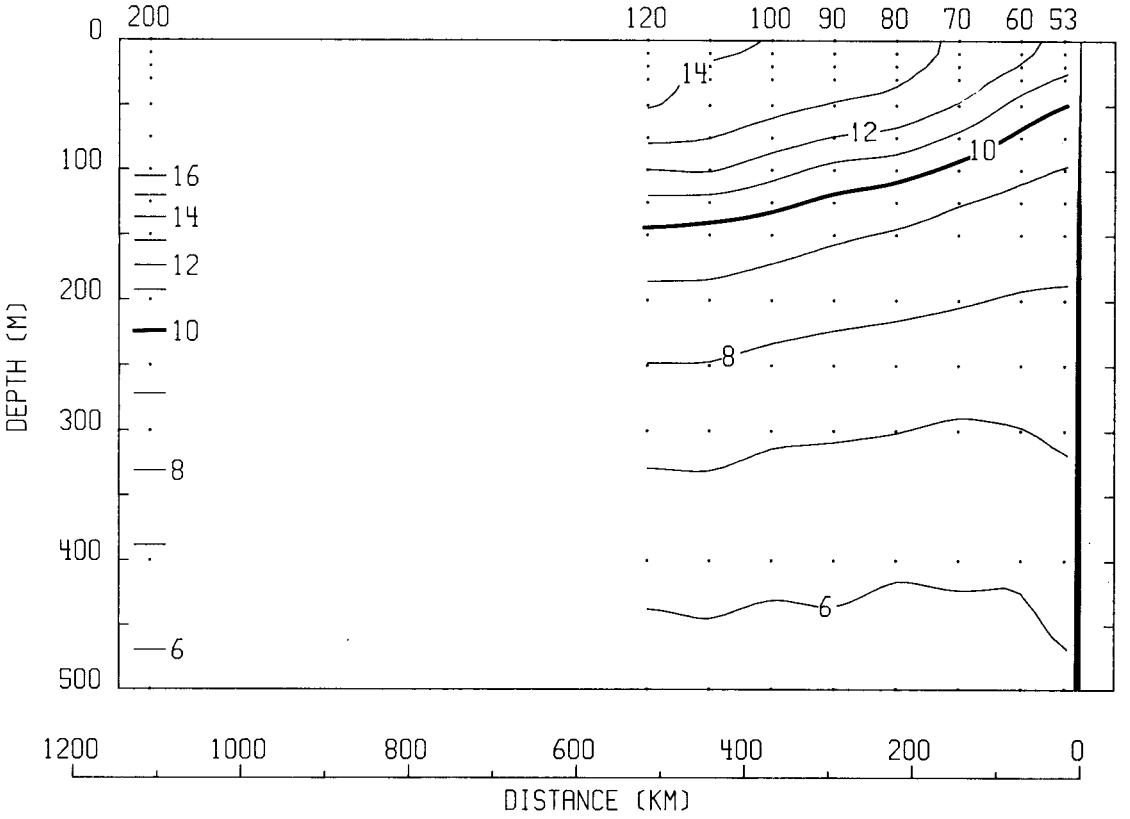
TEMPERATURE (DEG. C) LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	16.74	14.54	14.41	13.99	13.60	13.32	12.96	12.36	11.66
10	16.56	14.40	14.12	13.84	13.55	13.28	12.82	12.20	11.45
20	16.56	14.37	13.86	13.73	13.50	13.21	12.80	12.03	11.17
30	16.56	14.33	13.74	13.52	13.34	13.13	12.59	11.51	10.71
50	16.54	14.18	13.59	13.28	12.99	12.77	11.99	10.57	9.85
75	16.60	13.27	13.10	12.57	11.99	11.71	10.77	9.69	9.26
100	16.47	11.97	12.19	11.37	10.61	10.39	9.62	9.15	8.92
125	14.62	10.73	10.63	10.26	9.70	9.47	9.00	8.77	8.67
150	13.28	9.81	9.63	9.39	9.11	8.88	8.63	8.48	8.38
200	10.59	8.68	8.73	8.51	8.32	8.20	8.07	7.91	7.88
250	9.36	7.97	7.97	7.73	7.62	7.57	7.46	7.44	7.49
300	8.54	7.28	7.33	7.11	7.07	7.02	6.87	6.96	7.14
400	6.80	6.29	6.30	6.21	6.23	6.08	6.14	6.10	6.49
500	5.64	5.50	5.66	5.48	5.61	5.53	5.56	5.57	5.82

LINE 60



LINE 70



APRIL
TEMPERATURE

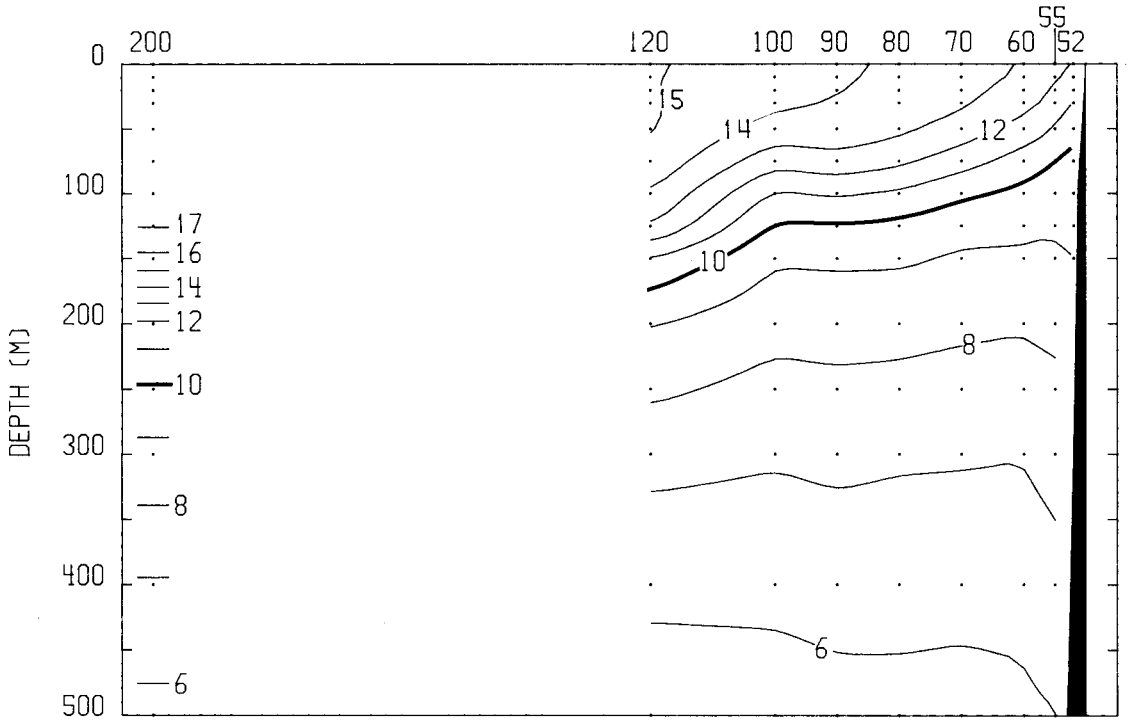
TEMPERATURE (DEG. C) LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	17.52	15.08	14.71	14.21	13.87	13.48	12.98	12.35	11.95
10	17.26	15.05	14.53	14.11	13.77	13.44	12.87	12.17	11.66
20	17.15	15.05	14.40	14.05	13.70	13.33	12.54	11.96	11.18
30	17.16	15.10	14.21	13.92	13.62	13.18	12.29	11.74	10.66
50	17.22	15.14	13.61	13.62	13.25	12.57	11.66	10.99	10.16
75	17.40	14.79	12.38	12.73	12.28	11.45	10.49	9.98	9.54
100	17.56	13.96	10.84	11.12	10.81	10.13	9.73	9.46	9.48
125	17.18	13.09	9.80	9.86	9.74	9.31	9.23	9.04	9.28
150	15.75	10.88	9.10	9.15	9.13	8.86	8.84	8.79	9.06
200	11.74	9.03	8.31	8.40	8.34	8.21	8.09	8.30	
250	9.82	8.20	7.69	7.77	7.72	7.59	7.52	7.80	
300	8.71	7.33	7.11	7.25	7.13	7.11	7.03	7.41	
400	6.89	6.20	6.23	6.33	6.32	6.25	6.32	6.73	
500	5.71	5.52	5.56	5.70	5.72	5.70	5.77	6.01	

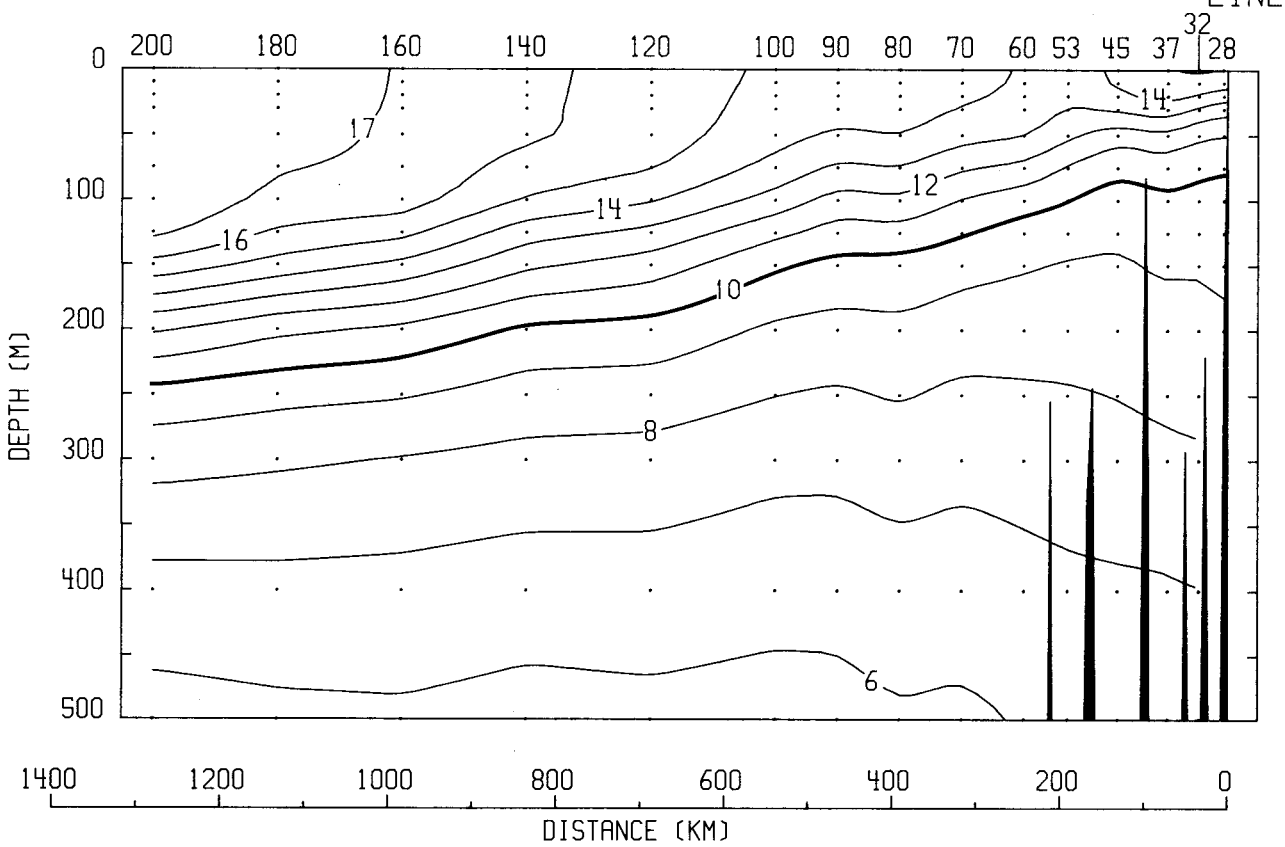
TEMPERATURE (DEG. C) LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	17.83	17.76	16.92	16.19	15.72	14.81	14.60	14.57	14.36	13.93	13.43	14.30	14.92	15.18	15.21
10	17.83	17.64	16.91	16.16	15.66	14.71	14.53	14.55	14.32	13.87	13.37	14.21	14.86	14.99	14.46
20	17.82	17.60	16.90	16.20	15.63	14.64	14.46	14.50	14.14	13.79	13.21	13.84	14.40	13.97	13.23
30	17.80	17.61	16.88	16.14	15.61	14.58	14.38	14.40	13.97	13.65	12.87	13.16	13.68	12.80	12.15
50	17.80	17.57	16.74	16.20	15.53	14.35	13.86	14.07	13.39	13.10	12.16	11.31	11.68	11.07	10.94
75	17.84	17.06	16.76	15.63	15.14	13.70	12.82	13.01	12.09	11.71	10.73	10.14	10.51	10.20	10.05
100	17.87	16.79	16.54	14.98	14.14	12.61	11.56	11.80	10.90	10.38	9.95	9.53	9.83	9.68	9.64
125	17.40	15.90	15.34	13.38	12.70	11.19	10.52	10.60	10.01	9.53	9.32	9.15	9.42	9.34	9.39
150	15.76	14.66	13.76	12.19	11.51	10.11	9.68	9.69	9.30	9.07	8.90	8.86	9.12	9.05	9.22
200	12.14	11.20	10.74	9.75	9.62	8.78	8.63	8.76	8.47	8.42	8.38	8.48	8.64	8.66	8.87
250	9.66	9.29	9.07	8.54	8.47	8.01	7.86	8.08	7.78	7.85	7.92	8.02	8.22	8.26	
300	8.33	8.14	7.93	7.72	7.65	7.28	7.25	7.49	7.27	7.38	7.48	7.60	7.75	7.89	
400	6.62	6.68	6.64	6.42	6.47	6.29	6.29	6.50	6.44	6.66	6.79	6.84	6.87	6.98	
500	5.61	5.79	5.85	5.68	5.76	5.65	5.69	5.91	5.82	6.05	6.16	6.20	6.17	6.34	

LINE 80



LINE 90



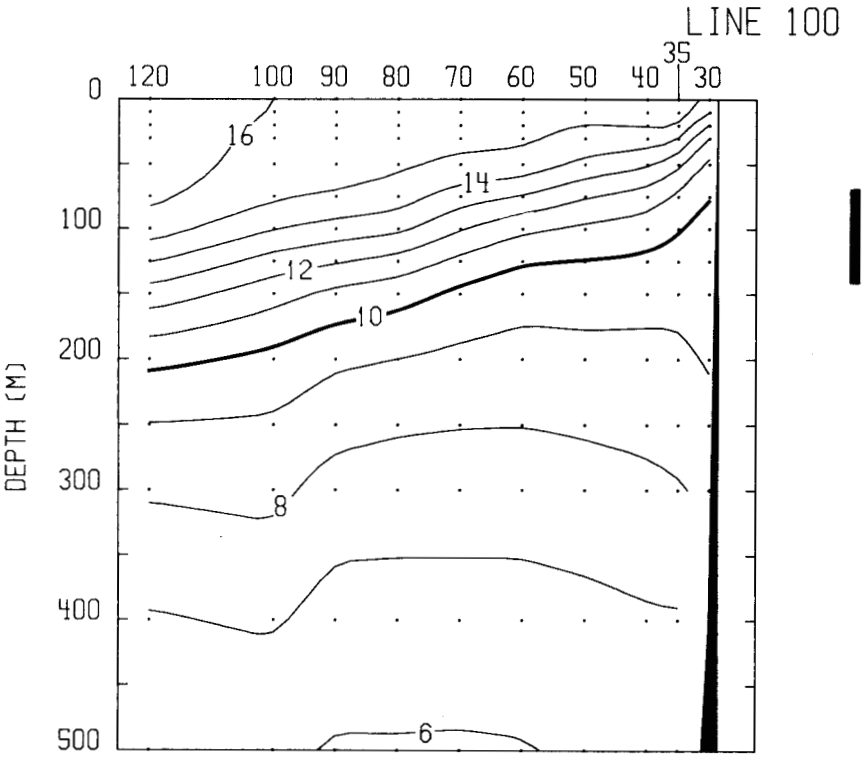
APRIL
TEMPERATURE

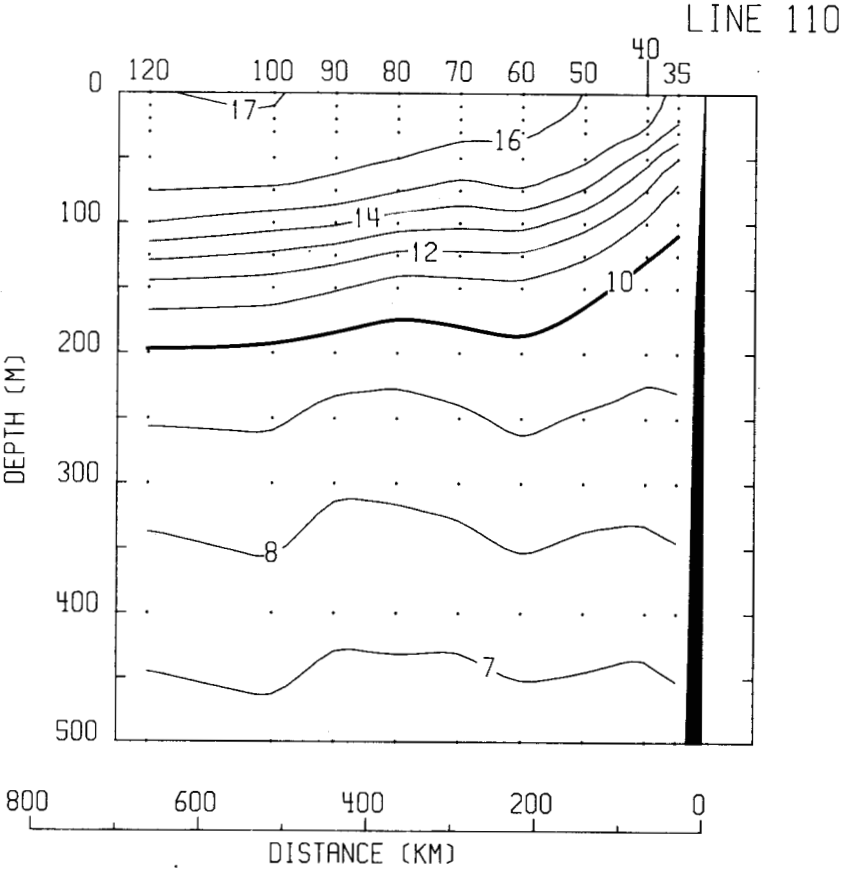
TEMPERATURE (DEG. C) LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	16.84	16.00	15.82	15.80	15.52	15.47	15.38	15.63	16.14	14.57
10	16.75	15.95	15.78	15.59	15.35	15.41	15.24	15.45	15.99	13.87
20	16.64	15.84	15.77	15.54	15.30	15.30	14.98	15.06	15.09	12.26
30	16.58	15.74	15.71	15.45	15.23	15.18	14.65	14.53	14.28	11.38
50	16.53	15.59	15.53	15.18	14.83	14.66	13.75	13.15	12.20	10.43
75	16.27	15.24	14.91	14.52	13.48	12.94	11.98	11.45	10.71	9.82
100	15.60	14.07	13.58	13.28	12.04	11.13	10.76	10.51	9.97	9.65
125	14.10	12.54	12.08	11.57	10.68	10.04	9.92	9.80	9.60	9.55
150	12.58	11.37	10.68	10.38	9.72	9.35	9.40	9.28	9.30	9.42
200	10.24	9.70	9.17	8.96	8.75	8.61	8.67	8.73	8.72	9.15
250	8.95	8.86	8.31	8.11	8.03	8.01	8.11	8.24	8.45	8.76
300	8.12	8.28	7.56	7.49	7.45	7.43	7.60	7.75	7.86	8.23
400	6.90	7.14	6.55	6.55	6.58	6.60	6.68	6.87	6.92	
500	6.11	6.14	5.92	5.92	5.89	5.94	6.08	6.21	6.12	

TEMPERATURE (DEG. C) LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	16.99	17.11	16.66	16.55	16.46	16.28	16.00	15.59	14.58
10	16.95	17.03	16.60	16.50	16.38	16.20	15.98	15.51	14.47
20	16.87	16.95	16.54	16.48	16.28	16.14	15.91	15.35	13.92
30	16.71	16.81	16.47	16.44	16.17	16.09	15.80	15.09	13.34
50	16.54	16.57	16.30	16.07	15.66	15.86	15.31	13.42	11.61
75	16.13	16.05	15.71	15.17	14.59	15.11	13.99	11.93	10.50
100	15.11	14.41	14.18	13.42	13.20	13.36	12.29	10.77	10.01
125	13.27	12.79	12.36	11.66	11.78	11.81	11.08	10.02	9.67
150	11.62	11.48	11.04	10.53	10.60	10.74	10.21	9.57	9.49
200	9.88	9.77	9.51	9.35	9.55	9.77	9.52	9.13	9.18
250	9.10	9.14	8.71	8.68	8.84	9.17	8.92	8.81	8.90
300	8.35	8.56	8.09	8.13	8.28	8.64	8.36	8.30	8.47
400	7.38	7.62	7.21	7.27	7.23	7.50	7.36	7.28	7.50
500	6.52	6.67	6.40	6.42	6.42	6.57	6.57	6.43	6.61





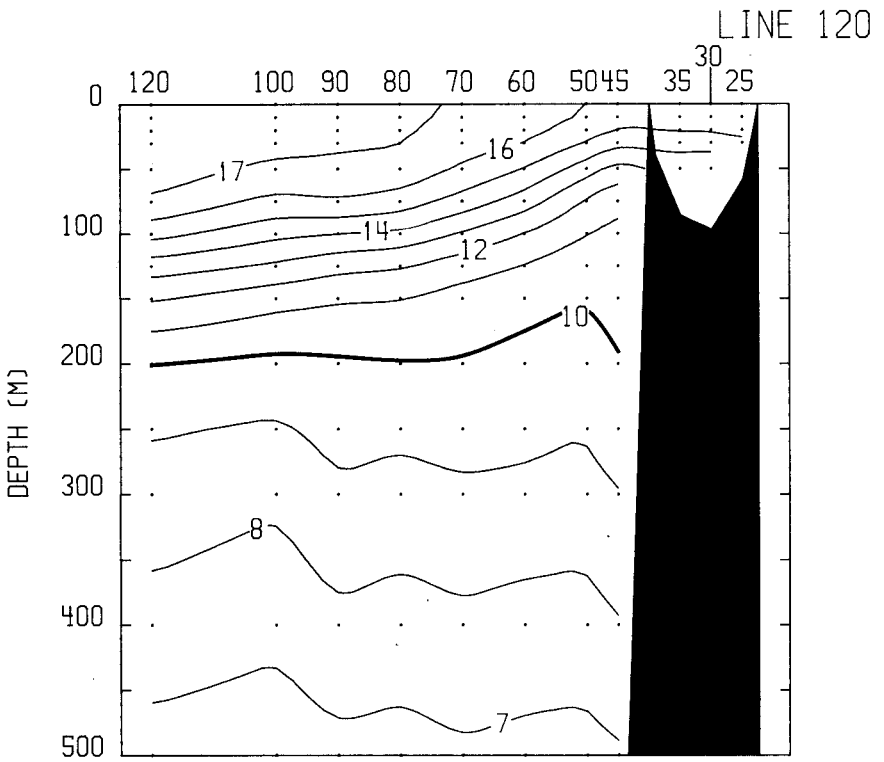
APRIL
TEMPERATURE

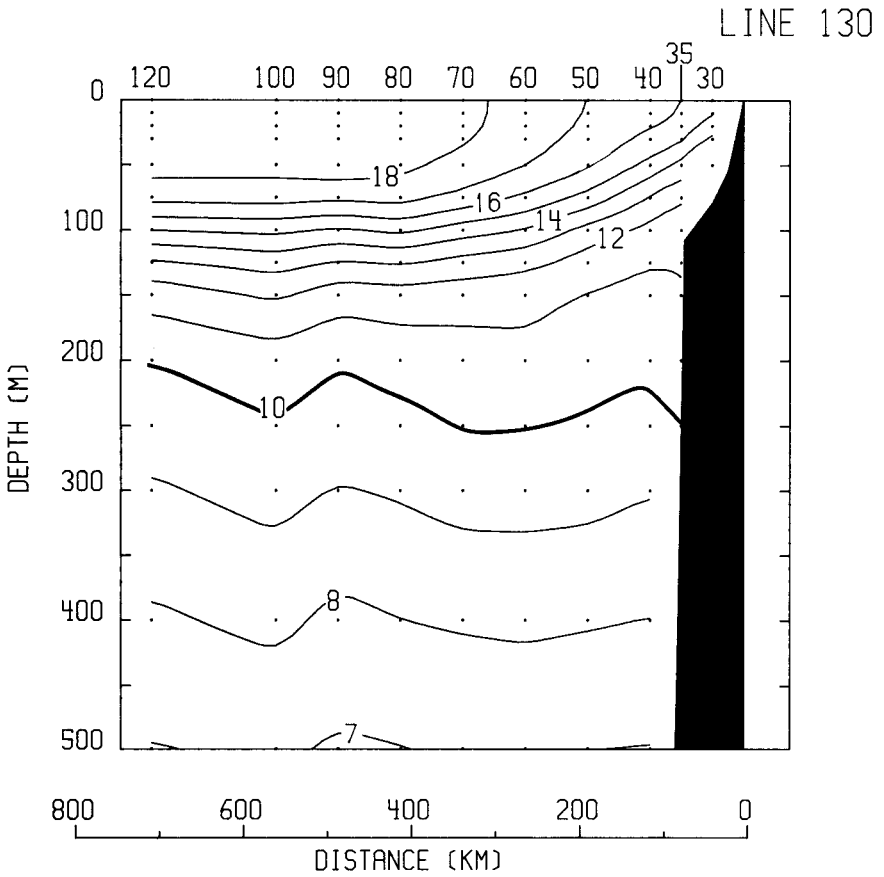
TEMPERATURE (DEG. C) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	17.97	17.76	17.55	17.25	16.92	16.52	16.10	15.45	15.68	15.44	15.82
10	17.99	17.53	17.39	17.21	16.83	16.49	15.92	15.31	15.33	15.34	15.69
20	17.87	17.41	17.24	17.13	16.67	16.31	15.60	14.99	15.08	15.06	15.39
30	17.75	17.34	17.14	17.06	16.46	16.09	14.98	14.22	14.72	14.73	14.54
50	17.54	16.77	16.79	16.71	15.89	15.00	13.50	12.48	13.06	12.55	
75	16.92	15.75	16.04	15.61	14.64	13.55	11.77	11.12			
100	15.36	14.22	13.96	13.77	12.86	11.90	10.99	10.76			
125	13.47	12.83	12.28	12.03	11.42	10.90	10.38	10.58			
150	12.08	11.34	11.06	11.00	10.60	10.31	10.01	10.43			
200	9.97	9.70	9.84	9.95	9.92	9.70	9.47	10.01			
250	9.09	8.85	9.32	9.20	9.41	9.26	9.05	9.58			
300	8.62	8.18	8.86	8.65	8.82	8.77	8.59	9.02			
400	7.58	7.22	7.78	7.54	7.80	7.58	7.54	8.00			
500	6.62	6.43	6.73	6.64	6.86	6.74	6.66	6.93			

TEMPERATURE (DEG. C) LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	19.00	18.38	18.66	18.57	18.33	17.53	17.01	16.45	16.14	15.16
10	18.84	18.39	18.66	18.48	18.30	17.52	16.95	16.35	15.96	15.00
20	18.82	18.38	18.65	18.46	18.27	17.48	16.88	16.04	15.76	14.40
30	18.81	18.36	18.65	18.44	18.12	17.37	16.73	15.74	15.40	13.38
50	18.38	18.30	18.58	18.26	17.73	17.09	16.23	14.73	13.59	12.13
75	17.48	17.55	17.37	17.54	16.81	15.88	14.72	12.84	11.96	
100	15.00	15.22	14.79	15.27	14.41	13.92	12.51	11.64	11.25	
125	12.74	13.45	12.80	13.00	12.56	12.20	11.54	11.02	11.03	
150	11.41	12.14	11.43	11.57	11.43	11.36	10.93	10.67	11.01	
200	10.00	10.52	10.05	10.35	10.52	10.67	10.30	10.16	10.62	
250	9.42	9.92	9.54	9.70	10.08	10.03	9.92	9.65	10.00	
300	8.88	9.33	8.93	9.10	9.39	9.39	9.33	9.05		
400	7.84	8.27	7.74	7.99	8.11	8.19	8.09	7.97		
500	6.93	7.10	6.87	6.94	7.07	7.12	6.98	6.94		





APRIL
TEMPERATURE

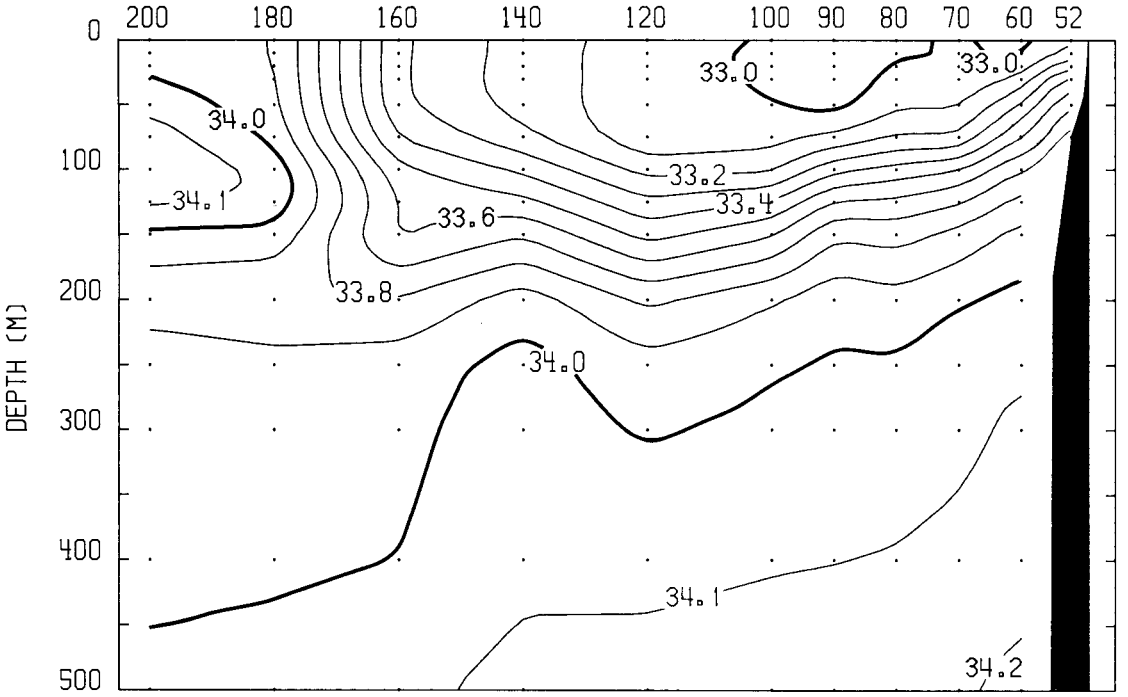
SALINITY (PPT) LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	33.90	33.91	33.32	33.15	33.06	32.99	32.93	32.99	33.02	32.97	33.12
10	33.90	33.91	33.31	33.15	33.03	32.98	32.94	32.98	33.01	32.97	33.14
20	33.99	33.91	33.31	33.15	33.05	32.98	32.93	33.02	33.01	33.04	33.29
30	34.00	33.92	33.31	33.14	33.05	32.98	32.92	33.04	33.02	33.13	33.45
50	34.07	33.93	33.32	33.16	33.03	33.01	32.96	33.08	33.09	33.30	33.60
75	34.16	33.97	33.39	33.22	33.01	33.06	33.12	33.20	33.20	33.52	33.75
100	34.20	34.07	33.53	33.38	33.16	33.18	33.37	33.45	33.50	33.71	
125	34.13	34.08	33.59	33.53	33.32	33.41	33.62	33.63	33.69	33.84	
150	33.97	33.96	33.58	33.69	33.46	33.59	33.79	33.76	33.84	33.94	
200	33.83	33.80	33.81	33.96	33.78	33.89	33.97	33.94	33.99	34.03	
250	33.98	33.94	33.95	34.04	33.94	33.99	34.01	34.01	34.07	34.09	
300	34.00	33.99	33.98	34.05	33.99	34.02	34.03	34.05	34.07	34.12	
400	33.98	33.98	34.00	34.07	34.07	34.09	34.10	34.11	34.13	34.17	
500	34.02	34.04	34.07	34.14	34.14	34.17	34.18	34.18	34.19	34.23	

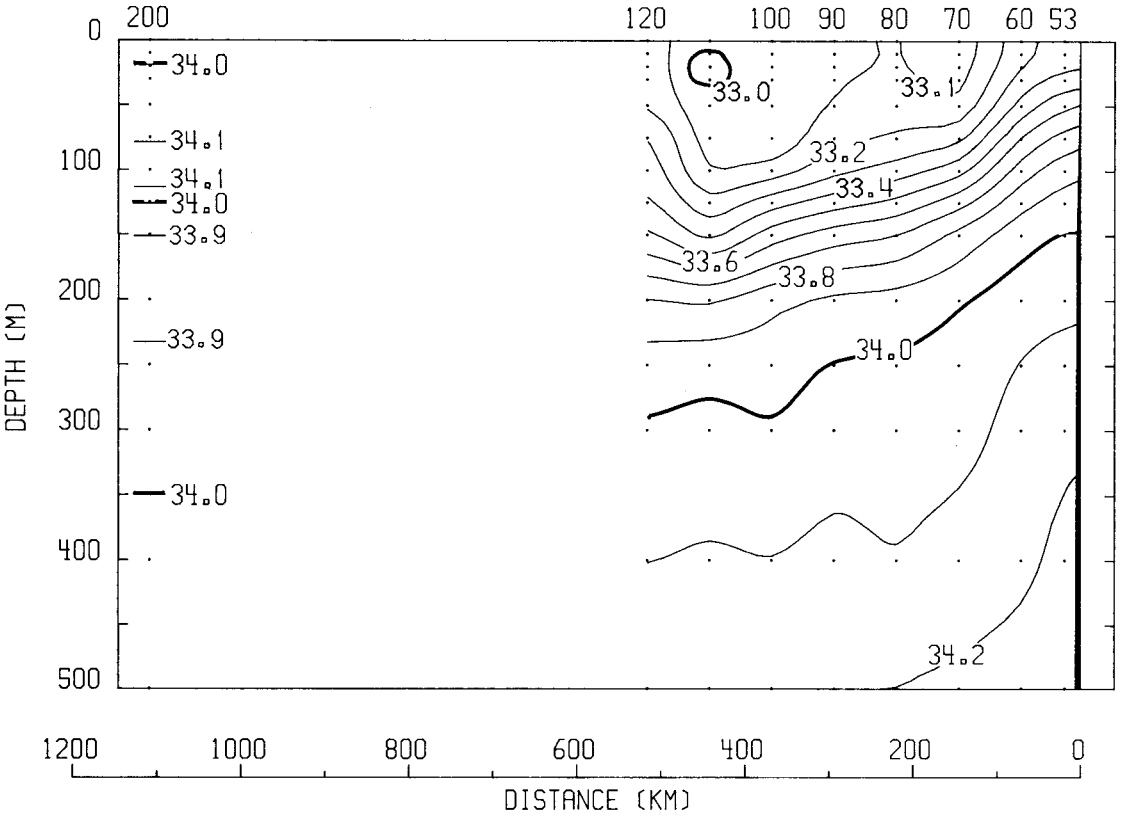
SALINITY (PPT) LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	33.97	33.16	33.00	33.06	33.09	33.12	33.05	33.26	33.36
10	34.00	33.16	32.99	33.04	33.06	33.11	33.02	33.27	33.36
20	34.00	33.16	32.97	33.05	33.08	33.12	33.05	33.30	33.38
30	34.00	33.16	32.98	33.04	33.09	33.12	33.05	33.35	33.45
50	34.02	33.19	33.01	33.05	33.10	33.16	33.11	33.44	33.60
75	34.07	33.33	33.03	33.01	33.16	33.21	33.26	33.62	33.76
100	34.23	33.37	33.08	33.14	33.27	33.35	33.46	33.76	33.88
125	33.98	33.43	33.22	33.36	33.46	33.53	33.67	33.88	33.96
150	33.90	33.53	33.35	33.56	33.66	33.70	33.84	33.97	34.01
200	33.80	33.81	33.79	33.88	33.93	33.94	33.99	34.06	34.08
250	33.95	33.95	33.97	33.96	34.01	34.01	34.04	34.11	34.14
300	34.00	34.01	34.04	34.00	34.06	34.05	34.06	34.14	34.19
400	34.00	34.10	34.11	34.10	34.13	34.10	34.15	34.18	34.23
500	34.06	34.16	34.16	34.16	34.20	34.20	34.22	34.24	34.27

LINE 60



LINE 70



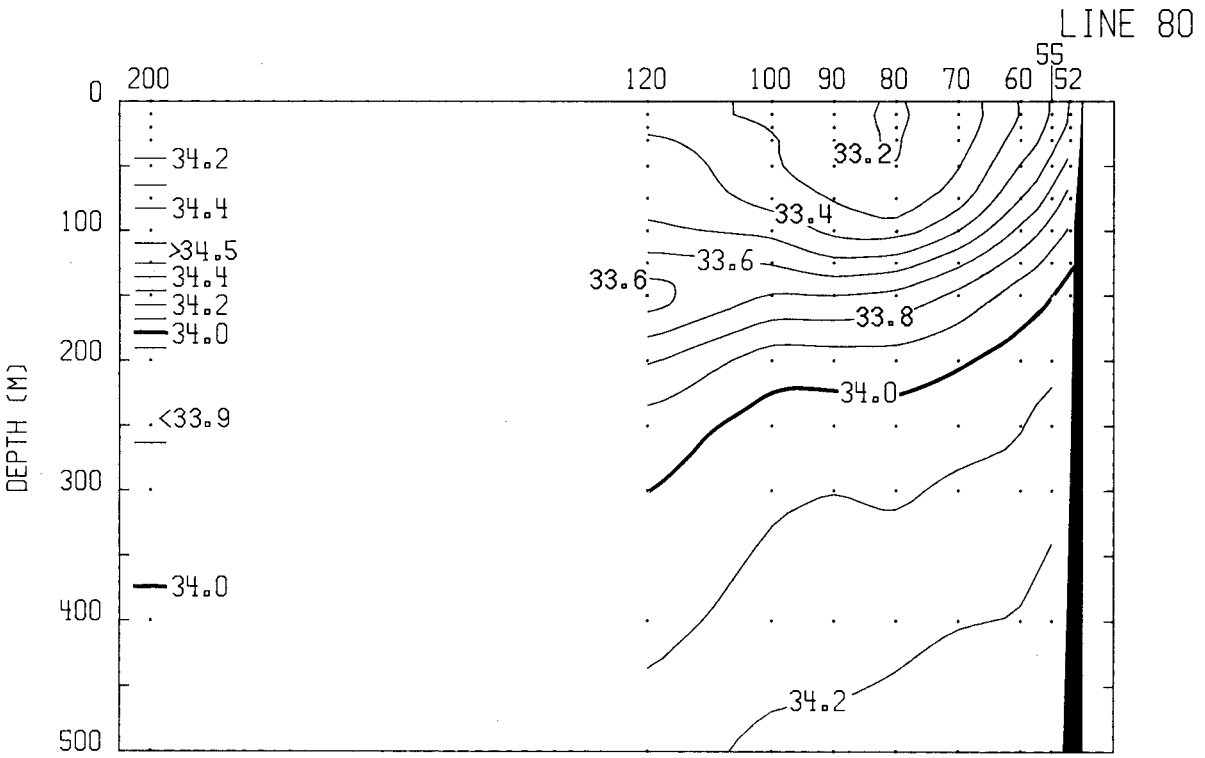
APRIL
SALINITY

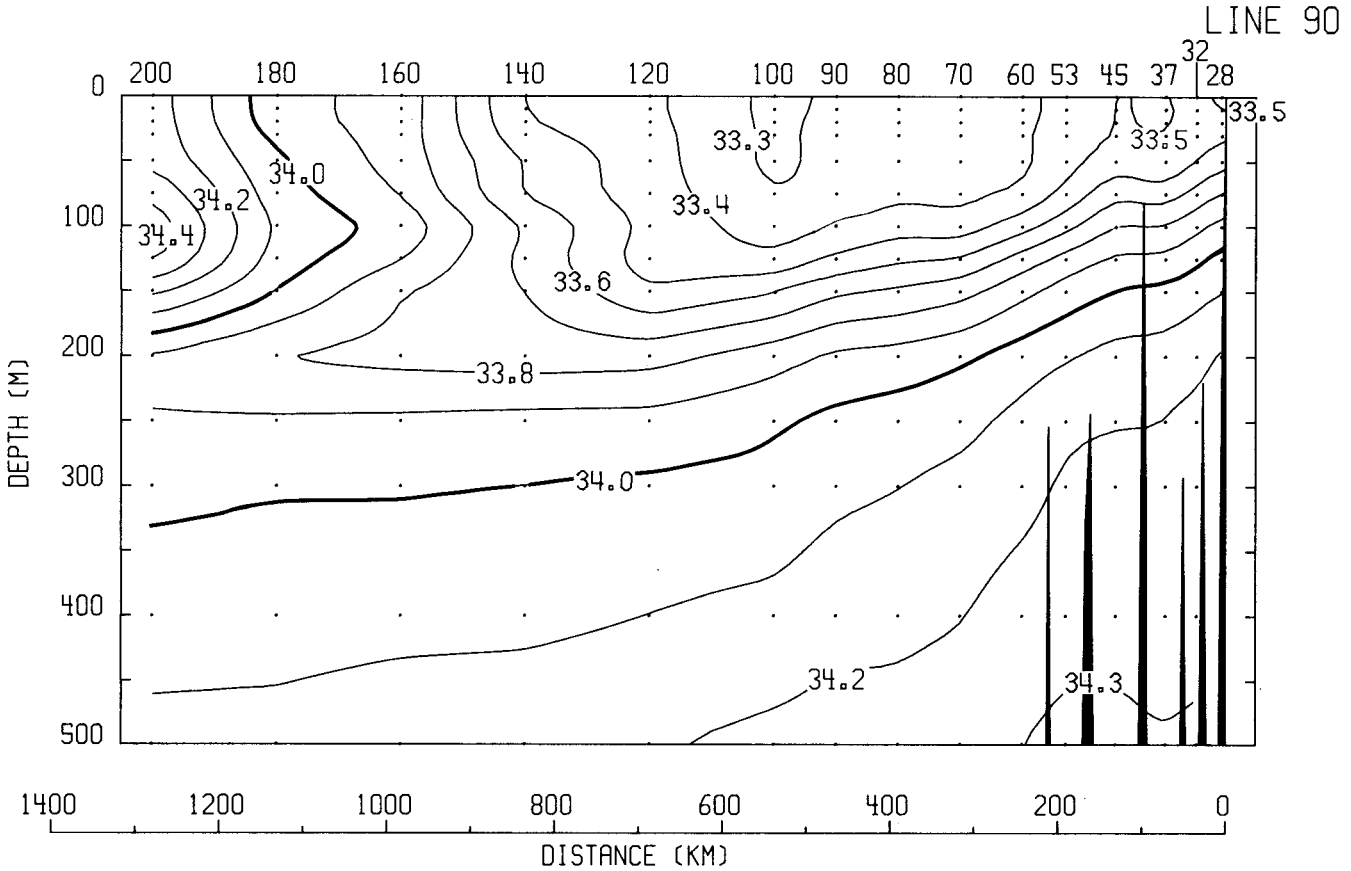
SALINITY (PPT) LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	34.16	33.35	33.30	33.23	33.19	33.24	33.42	33.50	33.61
10	34.15	33.33	33.25	33.21	33.19	33.23	33.38	33.47	33.63
20	34.15	33.39	33.31	33.22	33.19	33.24	33.43	33.51	33.66
30	34.16	33.42	33.31	33.22	33.19	33.25	33.45	33.52	33.71
50	34.21	33.49	33.31	33.24	33.19	33.29	33.51	33.61	33.78
75	34.36	33.49	33.35	33.29	33.23	33.34	33.60	33.71	33.89
100	34.49	33.51	33.48	33.36	33.33	33.49	33.73	33.84	33.93
125	34.51	33.67	33.60	33.52	33.55	33.68	33.85	33.93	34.00
150	34.27	33.53	33.71	33.70	33.73	33.83	33.96	34.00	34.05
200	33.81	33.79	33.97	33.95	33.95	33.99	34.05	34.08	
250	33.88	33.94	34.05	34.05	34.04	34.07	34.09	34.14	
300	33.96	34.00	34.09	34.10	34.08	34.12	34.13	34.18	
400	34.01	34.06	34.14	34.16	34.17	34.20	34.20	34.24	
500	34.09	34.15	34.23	34.23	34.24	34.27	34.27	34.29	

SALINITY (PPT) LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	34.25	33.93	33.86	33.49	33.42	33.27	33.32	33.36	33.35	33.37	33.45	33.51	33.49	33.53	33.47
10	34.25	33.93	33.86	33.49	33.41	33.27	33.32	33.34	33.33	33.36	33.44	33.51	33.48	33.52	33.49
20	34.26	33.93	33.85	33.51	33.43	33.27	33.34	33.36	33.33	33.38	33.46	33.51	33.49	33.52	33.53
30	34.26	33.97	33.85	33.52	33.43	33.28	33.33	33.37	33.33	33.39	33.45	33.50	33.50	33.53	33.60
50	34.27	34.02	33.85	33.60	33.44	33.27	33.33	33.37	33.34	33.38	33.47	33.56	33.50	33.59	33.68
75	34.38	34.04	33.89	33.58	33.44	33.30	33.33	33.37	33.37	33.41	33.53	33.68	33.64	33.73	33.83
100	34.47	34.08	33.97	33.70	33.47	33.34	33.40	33.46	33.44	33.56	33.68	33.81	33.80	33.87	33.95
125	34.44	34.06	33.91	33.67	33.44	33.42	33.52	33.58	33.61	33.75	33.85	33.92	33.92	33.98	34.04
150	34.23	34.00	33.80	33.70	33.51	33.59	33.69	33.72	33.77	33.88	33.95	34.01	34.03	34.06	34.11
200	33.88	33.79	33.77	33.75	33.76	33.86	33.93	33.94	33.98	34.06	34.10	34.14	34.14	34.18	34.21
250	33.91	33.91	33.92	33.93	33.94	33.99	34.03	34.05	34.07	34.13	34.18	34.20	34.20	34.23	
300	33.98	33.99	33.99	34.00	34.02	34.03	34.08	34.10	34.13	34.16	34.22	34.24	34.23	34.27	
400	34.04	34.05	34.06	34.07	34.10	34.13	34.17	34.17	34.19	34.25	34.28	34.28	34.27	34.28	
500	34.14	34.14	34.18	34.18	34.19	34.23	34.24	34.25	34.27	34.30	34.32	34.32	34.31	34.31	





APRIL
SALINITY

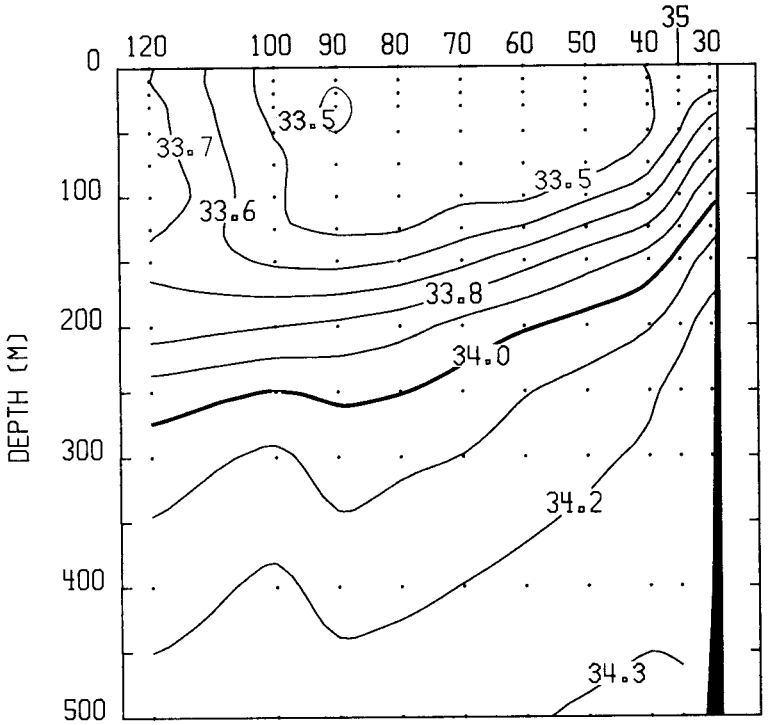
SALINITY (PPT) LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	33.73	33.46	33.49	33.45	33.48	33.49	33.47	33.51	33.55	33.57
10	33.69	33.46	33.49	33.44	33.48	33.48	33.46	33.49	33.52	33.56
20	33.74	33.46	33.51	33.45	33.48	33.48	33.48	33.50	33.52	33.60
30	33.74	33.47	33.51	33.45	33.47	33.48	33.47	33.48	33.54	33.66
50	33.74	33.49	33.50	33.45	33.45	33.44	33.43	33.47	33.56	33.78
75	33.76	33.51	33.47	33.41	33.39	33.38	33.44	33.54	33.71	33.89
100	33.80	33.51	33.42	33.42	33.48	33.47	33.57	33.67	33.82	33.99
125	33.72	33.50	33.48	33.48	33.56	33.60	33.71	33.80	33.92	34.09
150	33.68	33.58	33.56	33.60	33.67	33.76	33.86	33.94	34.04	34.16
200	33.75	33.80	33.83	33.87	33.94	34.00	34.05	34.09	34.16	34.26
250	33.95	34.01	33.98	34.00	34.04	34.10	34.13	34.18	34.25	34.30
300	34.05	34.13	34.05	34.08	34.10	34.14	34.18	34.22	34.26	34.30
400	34.15	34.22	34.16	34.18	34.20	34.23	34.25	34.27	34.28	
500	34.24	34.27	34.25	34.27	34.28	34.30	34.31	34.33	34.31	

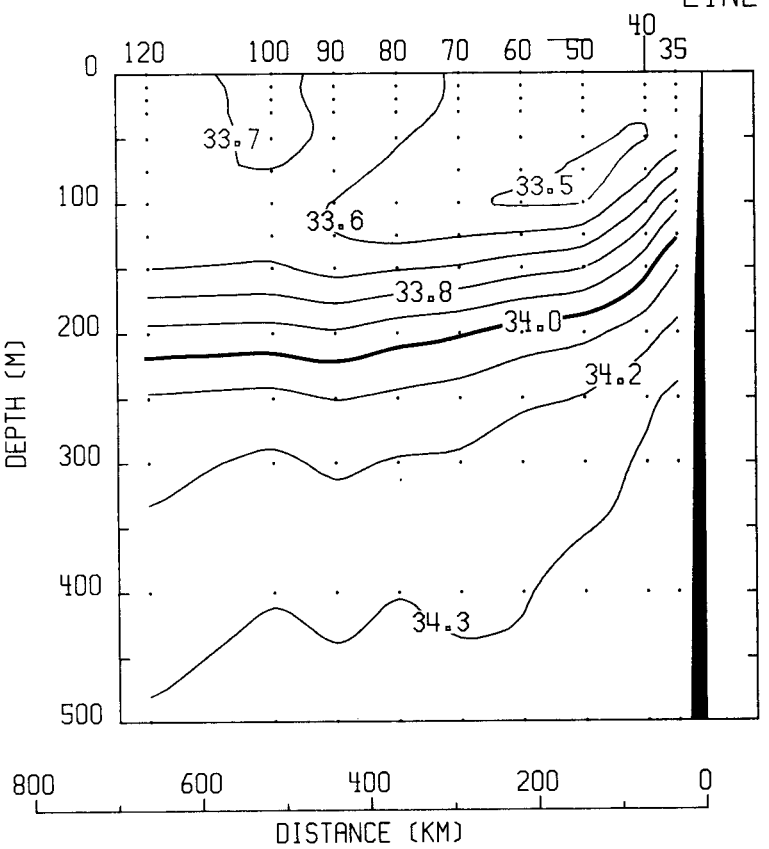
SALINITY (PPT) LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	33.65	33.76	33.66	33.63	33.59	33.59	33.54	33.53	33.53
10	33.63	33.73	33.65	33.63	33.59	33.57	33.54	33.51	33.54
20	33.63	33.74	33.67	33.63	33.59	33.57	33.54	33.52	33.54
30	33.63	33.74	33.68	33.63	33.59	33.57	33.54	33.51	33.54
50	33.63	33.72	33.69	33.61	33.56	33.57	33.52	33.47	33.55
75	33.69	33.71	33.66	33.57	33.51	33.53	33.48	33.54	33.71
100	33.65	33.63	33.59	33.50	33.50	33.49	33.49	33.69	33.90
125	33.60	33.66	33.59	33.56	33.59	33.61	33.63	33.83	34.02
150	33.70	33.71	33.66	33.69	33.71	33.76	33.79	33.95	34.13
200	33.93	33.94	33.91	33.97	33.99	34.05	34.07	34.16	34.24
250	34.12	34.14	34.10	34.12	34.14	34.19	34.21	34.28	34.33
300	34.17	34.22	34.18	34.21	34.21	34.25	34.27	34.31	34.36
400	34.25	34.30	34.28	34.30	34.28	34.29	34.33	34.32	34.37
500	34.31	34.35	34.33	34.34	34.33	34.32	34.35	34.34	34.37

LINE 100



LINE 110



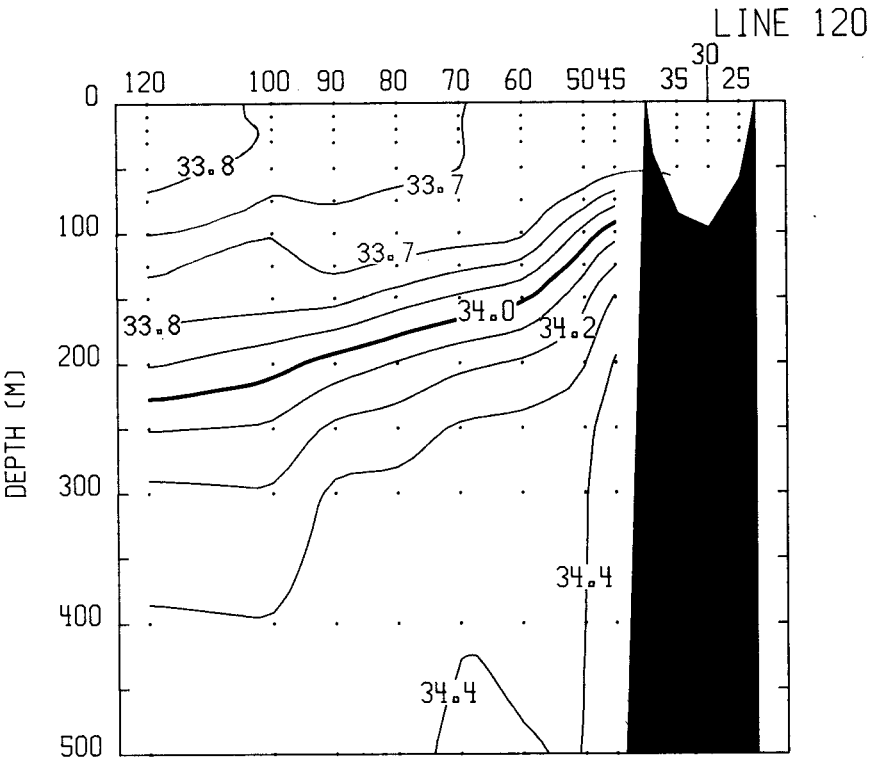
APRIL
SALINITY

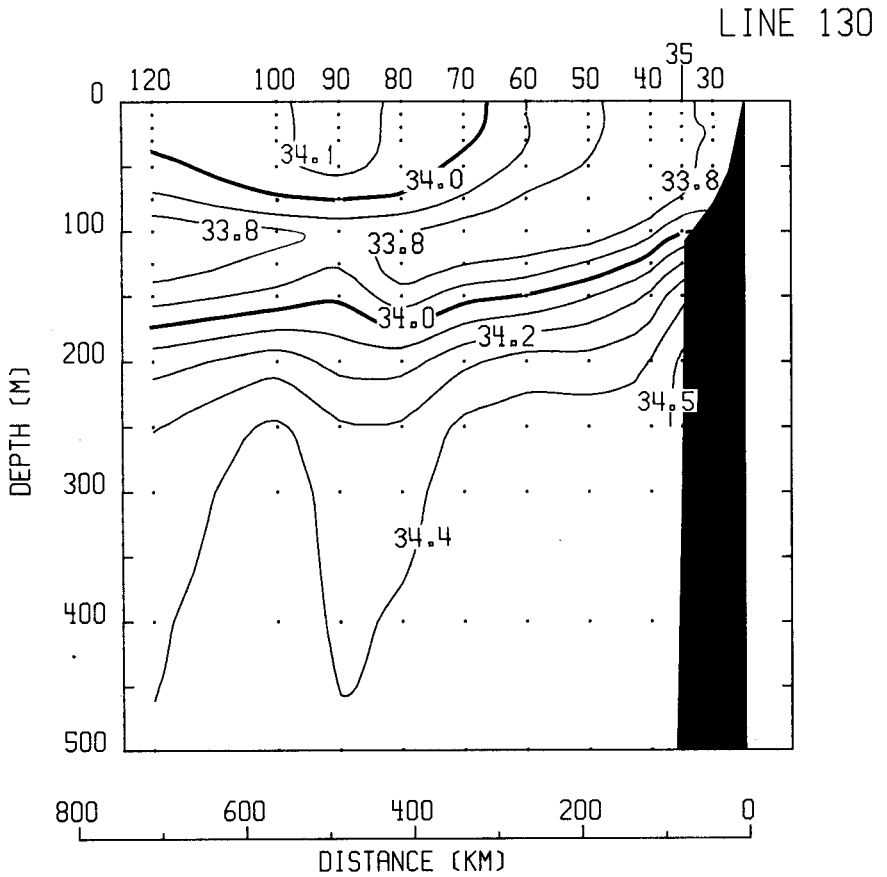
SALINITY (PPT) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	33.90	33.78	33.78	33.75	33.71	33.65	33.64	33.65	33.65	33.67	33.66
10	33.90	33.76	33.76	33.76	33.70	33.63	33.63	33.65	33.64	33.66	33.65
20	33.89	33.80	33.75	33.77	33.70	33.64	33.64	33.65	33.62	33.63	33.63
30	33.89	33.80	33.75	33.77	33.71	33.63	33.61	33.64	33.62	33.63	33.63
50	33.85	33.75	33.75	33.75	33.71	33.61	33.60	33.66	33.60	33.67	
75	33.79	33.68	33.72	33.67	33.64	33.61	33.73	33.88			
100	33.69	33.70	33.62	33.63	33.64	33.65	33.94	34.08			
125	33.68	33.74	33.67	33.71	33.77	33.82	34.06	34.23			
150	33.74	33.75	33.76	33.85	33.92	33.98	34.17	34.34			
200	33.89	33.97	34.05	34.11	34.18	34.22	34.28	34.44			
250	34.10	34.11	34.23	34.25	34.32	34.33	34.36	34.48			
300	34.23	34.21	34.33	34.33	34.37	34.38	34.38	34.48			
400	34.31	34.30	34.37	34.35	34.40	34.39	34.39	34.46			
500	34.35	34.37	34.38	34.38	34.42	34.40	34.40	34.44			

SALINITY (PPT) LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	34.01	34.08	34.17	34.08	34.06	33.90	33.81	33.75	33.76	33.85
10	34.02	34.07	34.17	34.06	34.06	33.89	33.82	33.74	33.77	33.85
20	34.02	34.07	34.17	34.07	34.05	33.91	33.82	33.73	33.77	33.83
30	34.02	34.07	34.17	34.07	34.02	33.91	33.81	33.74	33.76	33.81
50	33.97	34.09	34.15	34.06	33.98	33.88	33.80	33.70	33.72	33.91
75	33.88	34.01	34.01	34.01	33.90	33.77	33.71	33.70	33.81	
100	33.71	33.79	33.83	33.80	33.73	33.72	33.71	33.84	34.01	
125	33.73	33.82	33.90	33.71	33.78	33.82	33.91	34.04	34.24	
150	33.85	33.93	34.00	33.82	33.97	34.00	34.10	34.21	34.40	
200	34.16	34.27	34.16	34.16	34.29	34.36	34.33	34.39	34.55	
250	34.29	34.43	34.31	34.31	34.43	34.45	34.46	34.44	34.55	
300	34.34	34.46	34.36	34.36	34.46	34.46	34.47	34.46		
400	34.39	34.46	34.38	34.41	34.44	34.46	34.46	34.45		
500	34.40	34.43	34.41	34.42	34.44	34.46	34.45	34.44		





APRIL
SALINITY

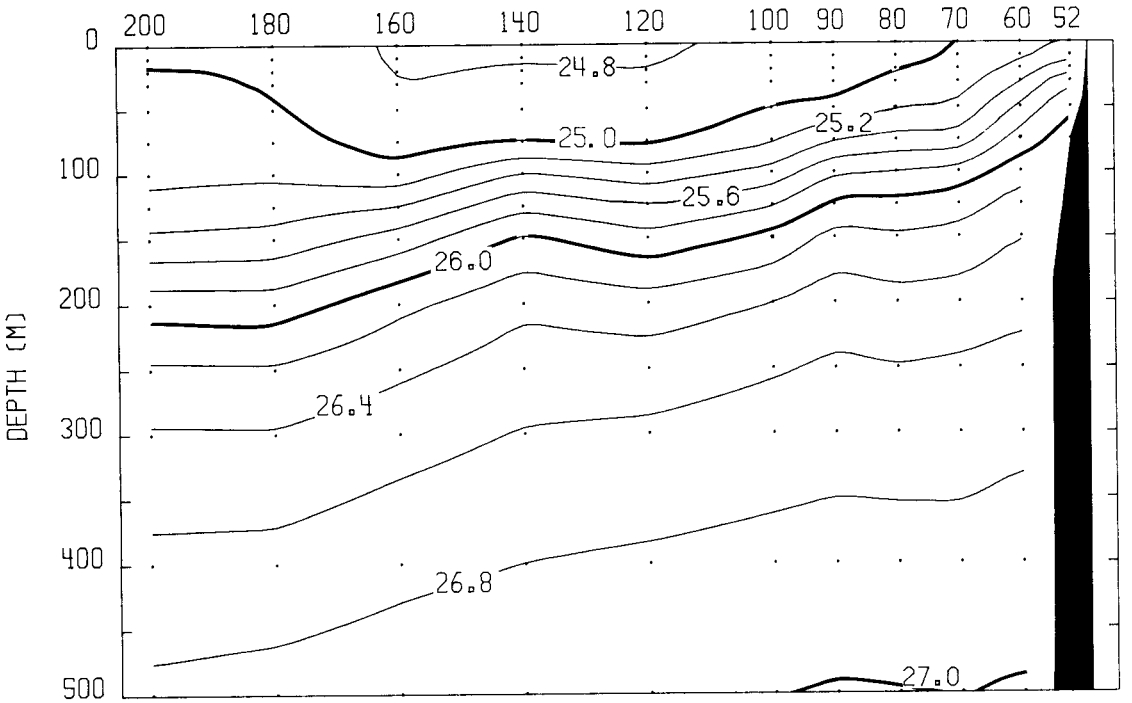
SIGMA-T LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	24.93	24.98	24.76	24.78	24.76	24.83	24.79	24.89	25.00	25.10	25.21
10	25.00	24.99	24.77	24.78	24.78	24.87	24.82	24.93	25.03	25.14	25.28
20	25.01	24.99	24.79	24.82	24.80	24.89	24.87	24.98	25.06	25.25	25.53
30	25.02	24.99	24.80	24.82	24.82	24.92	24.92	25.05	25.09	25.37	25.78
50	25.07	25.02	24.84	24.84	24.84	25.00	25.04	25.18	25.22	25.63	25.96
75	25.13	25.08	24.91	24.97	24.94	25.15	25.38	25.46	25.45	25.91	26.15
100	25.16	25.17	25.07	25.43	25.28	25.46	25.78	25.81	25.87	26.13	
125	25.25	25.31	25.40	25.76	25.59	25.79	26.06	26.05	26.10	26.29	
150	25.45	25.47	25.70	26.05	25.87	26.04	26.27	26.22	26.26	26.40	
200	25.91	25.90	26.15	26.36	26.28	26.41	26.51	26.46	26.48	26.55	
250	26.24	26.23	26.37	26.50	26.50	26.58	26.63	26.61	26.63	26.67	
300	26.42	26.42	26.52	26.61	26.64	26.69	26.72	26.71	26.71	26.76	
400	26.66	26.67	26.75	26.80	26.83	26.87	26.88	26.88	26.87	26.90	
500	26.84	26.88	26.92	26.96	26.98	27.00	27.01	27.01	27.00	27.02	

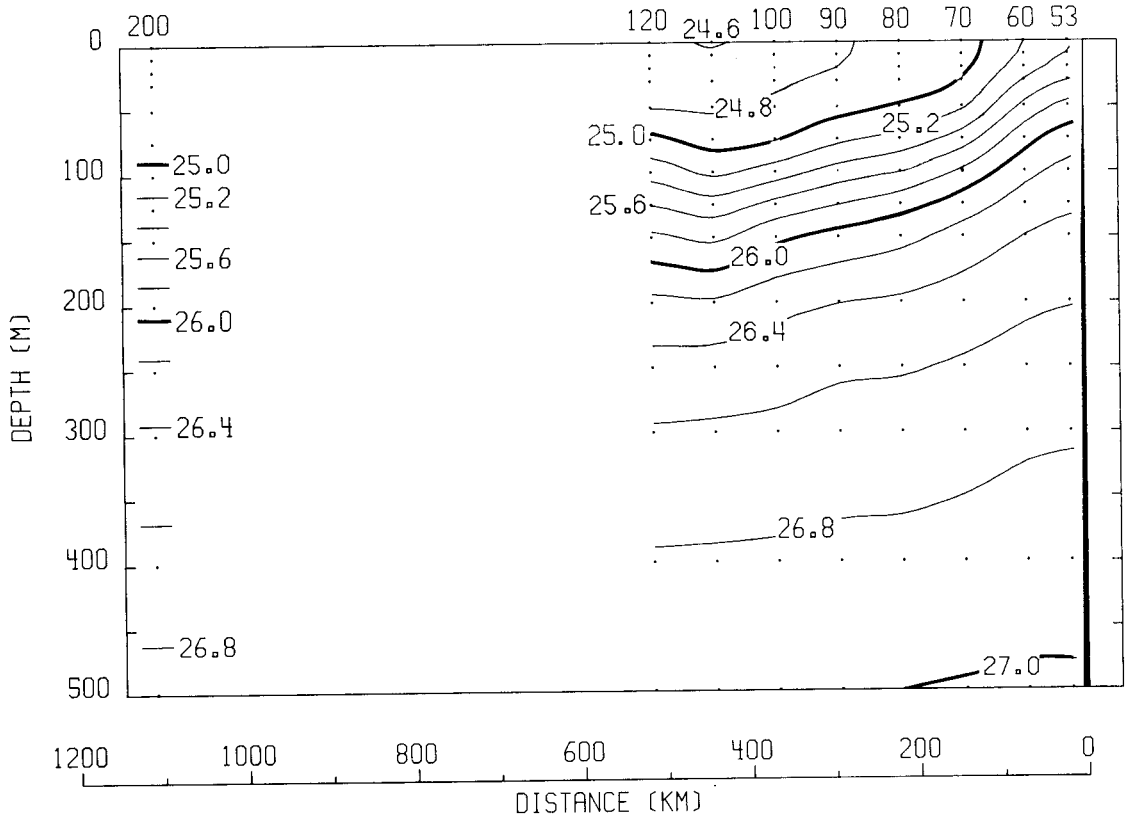
SIGMA-T LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	24.80	24.67	24.54	24.68	24.77	24.86	24.90	25.19	25.38
10	24.87	24.70	24.62	24.73	24.78	24.86	24.91	25.23	25.44
20	24.87	24.71	24.67	24.73	24.79	24.88	24.93	25.28	25.49
30	24.87	24.72	24.71	24.78	24.84	24.89	24.97	25.42	25.62
50	24.89	24.78	24.76	24.83	24.92	25.00	25.12	25.65	25.90
75	24.91	25.06	24.91	24.95	25.14	25.24	25.47	25.95	26.13
100	25.07	25.34	25.12	25.29	25.48	25.60	25.83	26.14	26.27
125	25.29	25.61	25.48	25.67	25.81	25.91	26.09	26.30	26.38
150	25.50	25.85	25.74	25.97	26.06	26.14	26.29	26.41	26.47
200	25.93	26.26	26.23	26.35	26.40	26.43	26.49	26.57	26.60
250	26.26	26.47	26.48	26.52	26.57	26.58	26.62	26.68	26.70
300	26.43	26.62	26.63	26.64	26.69	26.69	26.72	26.77	26.78
400	26.68	26.82	26.83	26.84	26.86	26.86	26.88	26.91	26.91
500	26.87	26.97	26.95	26.97	26.99	27.00	27.01	27.03	27.03

LINE 60



LINE 70



APRIL
SIGMA-T

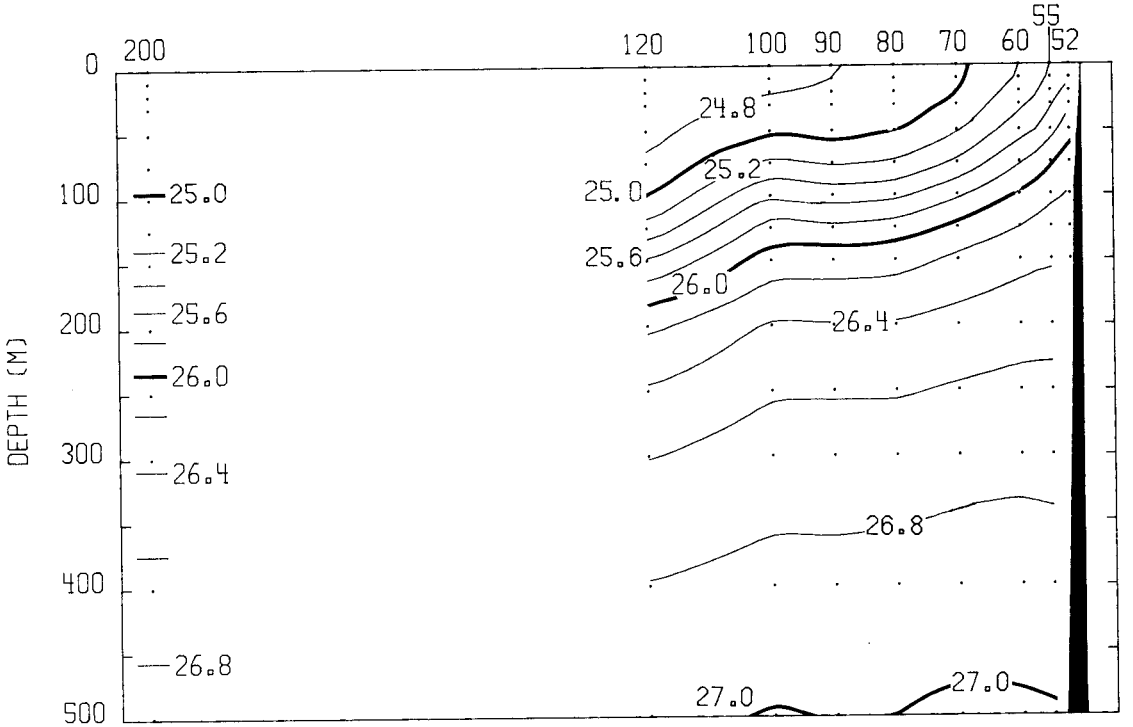
SIGMA-T LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	24.76	24.67	24.71	24.79	24.84	24.95	25.20	25.38	25.53
10	24.82	24.69	24.75	24.80	24.85	24.95	25.18	25.38	25.60
20	24.85	24.70	24.79	24.82	24.88	24.98	25.30	25.46	25.72
30	24.85	24.71	24.84	24.85	24.89	25.02	25.36	25.51	25.85
50	24.87	24.74	24.96	24.93	24.97	25.17	25.51	25.65	25.99
75	24.95	24.81	25.24	25.15	25.20	25.41	25.79	25.96	26.18
100	25.01	24.97	25.61	25.50	25.54	25.76	26.02	26.16	26.23
125	25.12	25.25	25.90	25.84	25.88	26.06	26.20	26.29	26.31
150	25.26	25.61	26.11	26.10	26.12	26.24	26.34	26.39	26.39
200	25.73	26.16	26.43	26.41	26.42	26.47	26.53	26.53	
250	26.12	26.42	26.58	26.58	26.58	26.62	26.65	26.65	
300	26.37	26.59	26.70	26.70	26.70	26.73	26.75	26.74	
400	26.68	26.81	26.87	26.86	26.88	26.90	26.90	26.88	
500	26.89	26.96	27.02	27.00	27.00	27.03	27.03	27.01	

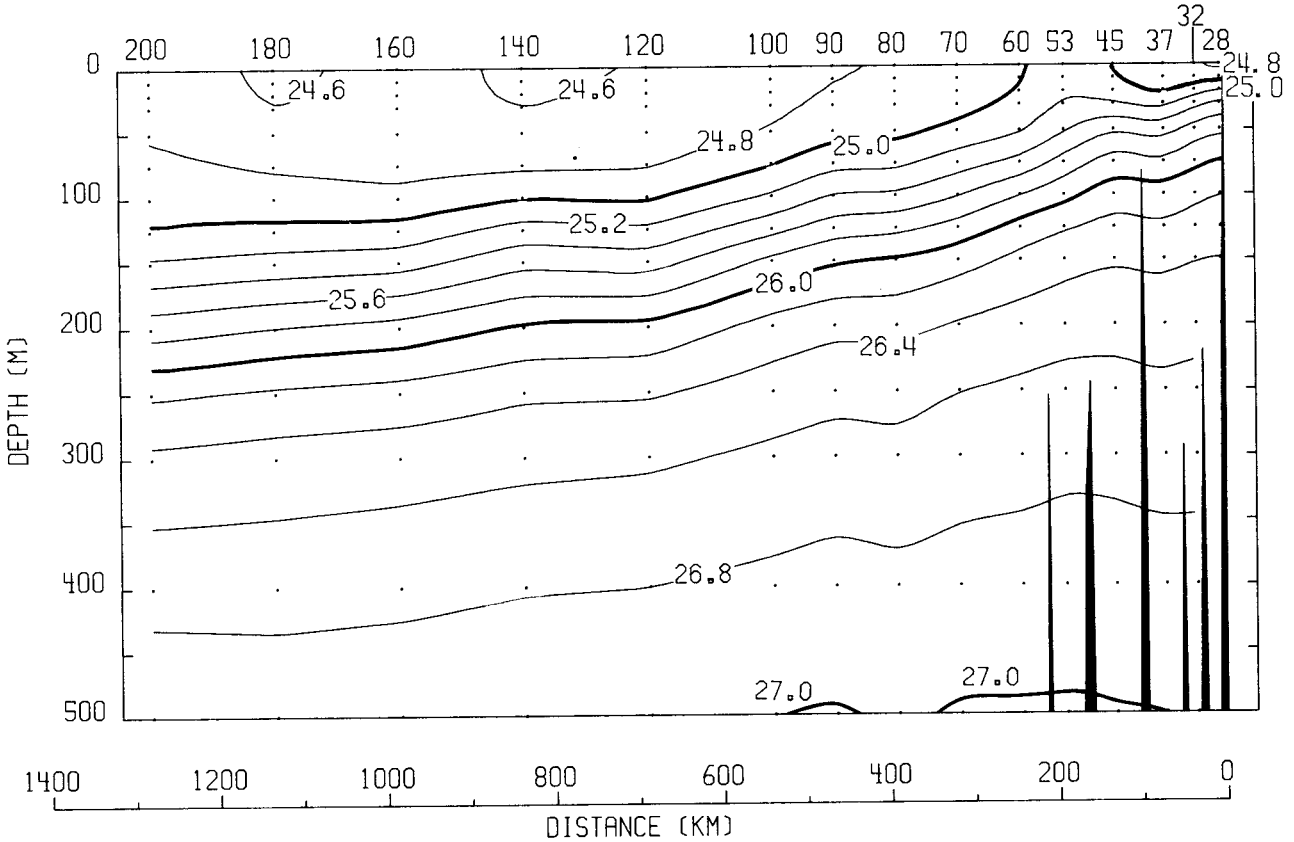
SIGMA-T LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	24.76	24.54	24.68	24.56	24.61	24.70	24.78	24.82	24.86	24.98	25.13	24.99	24.85	24.83	24.76
10	24.76	24.56	24.68	24.57	24.62	24.72	24.80	24.81	24.85	24.96	25.13	25.01	24.85	24.85	24.94
20	24.77	24.57	24.68	24.57	24.63	24.74	24.82	24.83	24.90	25.01	25.18	25.08	24.95	25.08	25.22
30	24.77	24.60	24.68	24.60	24.64	24.76	24.83	24.86	24.93	25.05	25.24	25.21	25.09	25.32	25.49
50	24.78	24.65	24.71	24.64	24.67	24.81	24.94	24.93	25.04	25.15	25.38	25.60	25.49	25.69	25.77
75	24.86	24.79	24.74	24.75	24.76	24.98	25.13	25.14	25.30	25.45	25.70	25.91	25.82	25.94	26.05
100	24.92	24.88	24.85	24.98	24.97	25.22	25.42	25.42	25.59	25.80	25.95	26.12	26.06	26.14	26.22
125	25.01	25.06	25.07	25.29	25.23	25.53	25.71	25.75	25.88	26.09	26.19	26.27	26.22	26.28	26.32
150	25.23	25.28	25.32	25.55	25.50	25.86	25.99	26.02	26.12	26.25	26.34	26.38	26.35	26.40	26.41
200	25.71	25.81	25.88	26.04	26.05	26.28	26.35	26.34	26.43	26.49	26.53	26.54	26.52	26.55	26.54
250	26.18	26.24	26.28	26.37	26.38	26.50	26.55	26.53	26.60	26.63	26.67	26.66	26.63	26.65	
300	26.45	26.48	26.51	26.55	26.57	26.64	26.67	26.65	26.71	26.73	26.76	26.75	26.72	26.73	
400	26.74	26.73	26.75	26.79	26.80	26.85	26.88	26.85	26.88	26.89	26.90	26.89	26.88	26.88	
500	26.94	26.92	26.94	26.96	26.96	27.00	27.01	26.99	27.02	27.02	27.02	27.01	27.00	26.99	

LINE 80



LINE 90



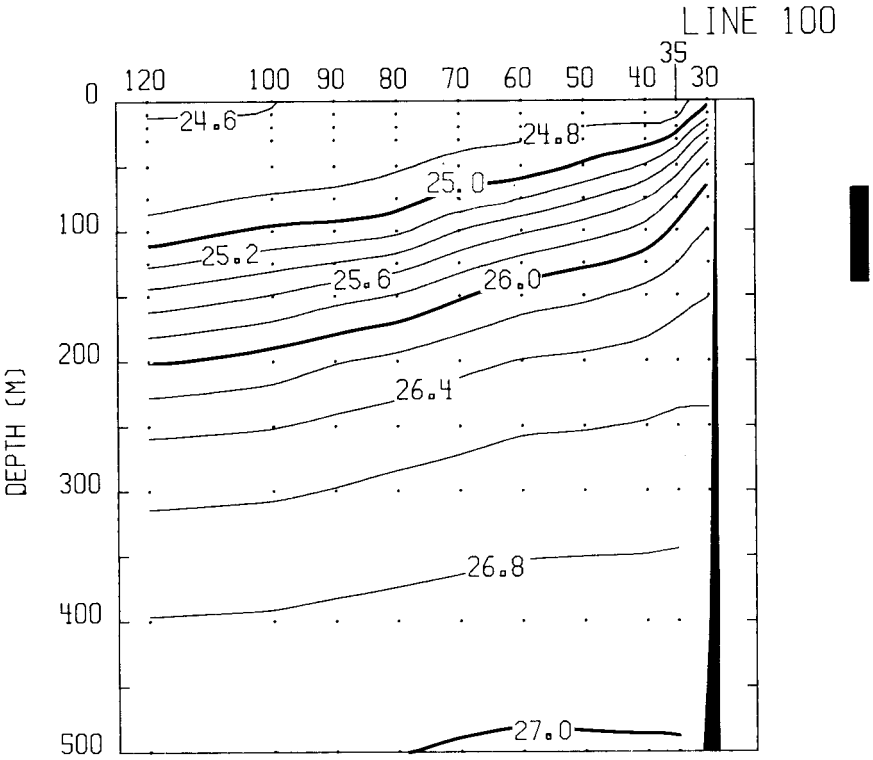
APRIL
SIGMA-T

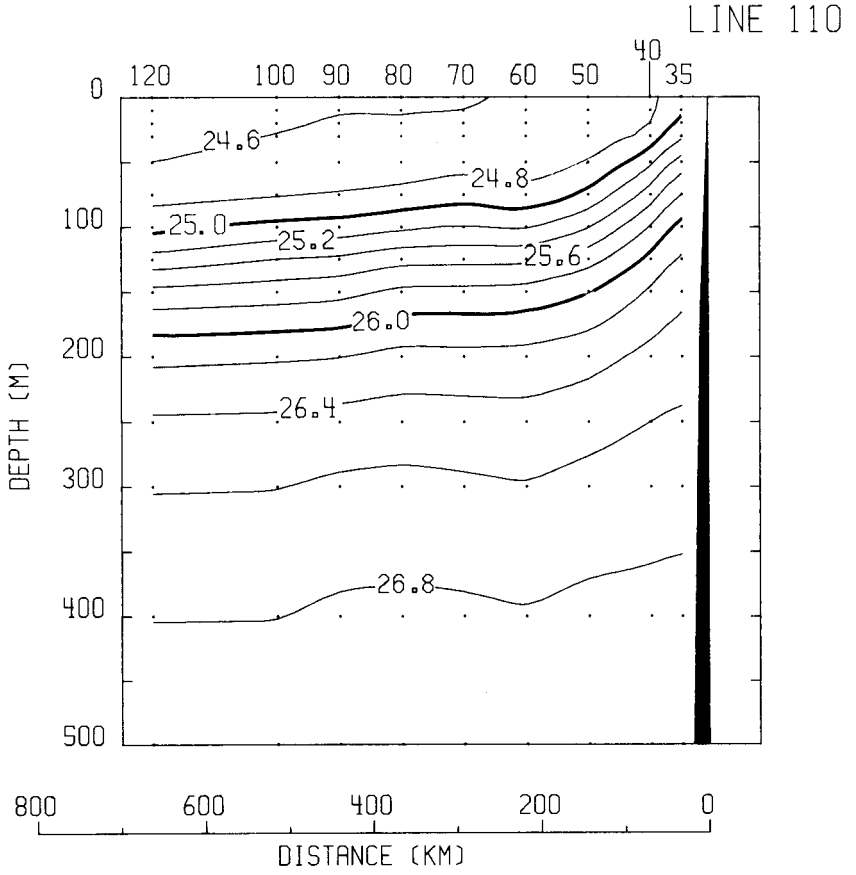
SIGMA-T LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	24.57	24.59	24.64	24.63	24.71	24.73	24.72	24.69	24.62	24.96
10	24.59	24.59	24.65	24.66	24.74	24.73	24.75	24.72	24.63	25.11
20	24.62	24.63	24.67	24.69	24.76	24.76	24.80	24.82	24.83	25.47
30	24.65	24.66	24.69	24.71	24.77	24.78	24.86	24.92	25.01	25.68
50	24.66	24.71	24.72	24.77	24.84	24.87	25.01	25.19	25.45	25.95
75	24.73	24.81	24.84	24.89	25.07	25.17	25.38	25.58	25.84	26.14
100	24.87	25.04	25.07	25.13	25.41	25.58	25.71	25.85	26.05	26.24
125	25.16	25.34	25.41	25.51	25.72	25.88	25.97	26.07	26.20	26.33
150	25.47	25.62	25.74	25.82	25.98	26.12	26.17	26.26	26.34	26.41
200	25.99	26.09	26.20	26.26	26.35	26.42	26.44	26.47	26.52	26.54
250	26.36	26.40	26.45	26.49	26.54	26.58	26.59	26.61	26.63	26.63
300	26.56	26.58	26.61	26.65	26.67	26.70	26.71	26.72	26.73	26.71
400	26.81	26.82	26.84	26.85	26.87	26.89	26.89	26.89	26.89	
500	26.97	26.99	26.99	27.00	27.02	27.03	27.02	27.02	27.02	

SIGMA-T LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	24.50	24.56	24.58	24.58	24.58	24.62	24.65	24.73	24.95
10	24.50	24.55	24.59	24.60	24.60	24.62	24.65	24.73	24.97
20	24.52	24.58	24.62	24.60	24.62	24.64	24.67	24.77	25.09
30	24.56	24.61	24.64	24.61	24.64	24.65	24.69	24.82	25.21
50	24.59	24.66	24.69	24.68	24.73	24.70	24.78	25.13	25.56
75	24.73	24.76	24.79	24.85	24.93	24.84	25.03	25.48	25.88
100	24.93	25.06	25.07	25.16	25.21	25.16	25.38	25.81	26.11
125	25.27	25.42	25.44	25.55	25.55	25.56	25.72	26.06	26.26
150	25.67	25.71	25.74	25.86	25.86	25.88	25.99	26.23	26.37
200	26.16	26.19	26.20	26.27	26.26	26.27	26.33	26.46	26.52
250	26.43	26.44	26.48	26.50	26.49	26.47	26.53	26.60	26.64
300	26.59	26.60	26.64	26.65	26.63	26.61	26.66	26.71	26.73
400	26.79	26.79	26.84	26.85	26.84	26.81	26.86	26.86	26.87
500	26.96	26.97	27.00	26.99	26.99	26.96	26.99	27.00	27.00





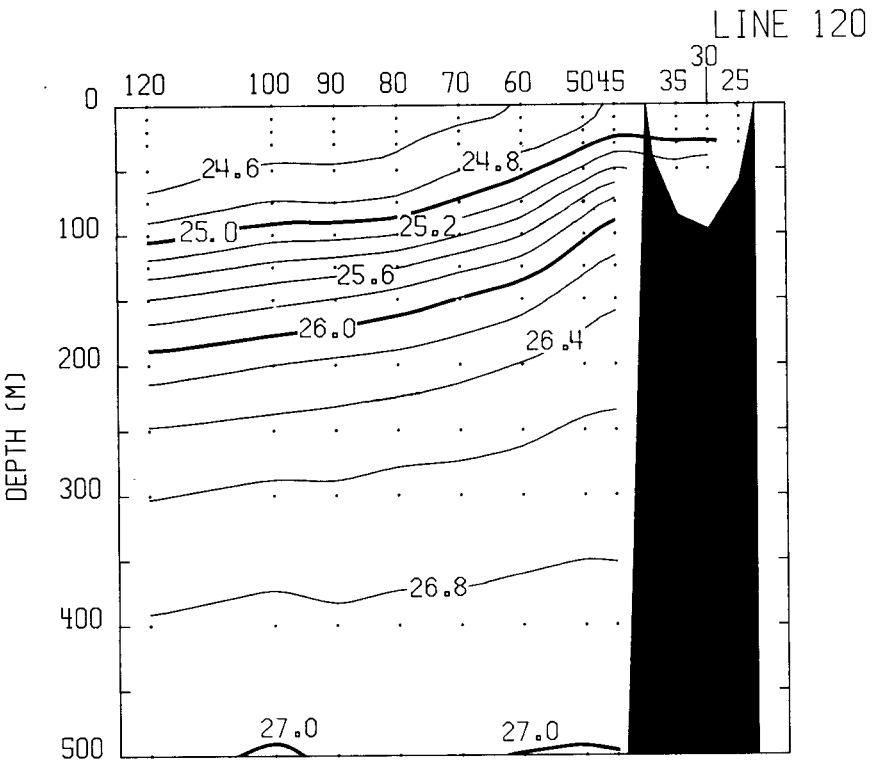
APRIL
SIGMA-T

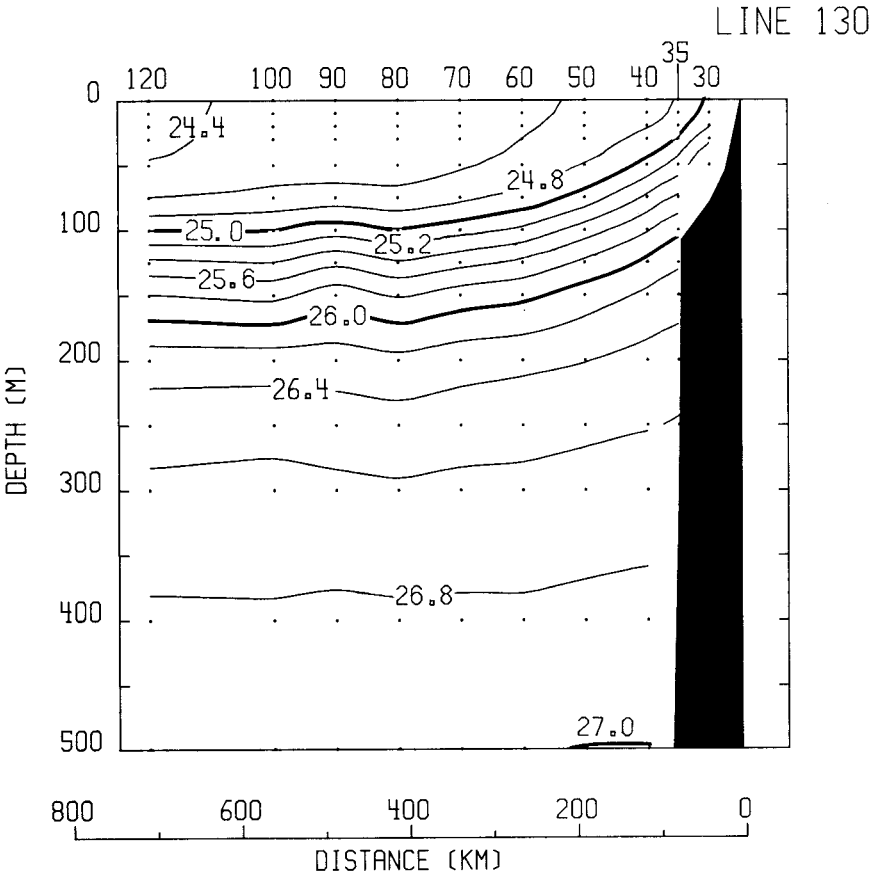
SIGMA-T LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	24.46	24.42	24.46	24.52	24.56	24.61	24.70	24.85	24.79	24.86	24.77
10	24.45	24.46	24.49	24.53	24.58	24.60	24.73	24.88	24.87	24.88	24.80
20	24.48	24.52	24.51	24.56	24.61	24.65	24.81	24.95	24.90	24.92	24.85
30	24.50	24.53	24.53	24.58	24.66	24.70	24.91	25.10	24.98	24.99	25.03
50	24.52	24.63	24.62	24.64	24.79	24.91	25.21	25.47	25.30	25.47	
75	24.62	24.80	24.76	24.82	25.01	25.21	25.66	25.90			
100	24.90	25.14	25.14	25.19	25.38	25.58	25.97	26.12			
125	25.29	25.46	25.52	25.60	25.76	25.89	26.17	26.27			
150	25.61	25.76	25.82	25.90	26.02	26.12	26.32	26.38			
200	26.11	26.21	26.26	26.29	26.35	26.41	26.50	26.53			
250	26.42	26.47	26.48	26.52	26.54	26.57	26.63	26.63			
300	26.59	26.65	26.63	26.67	26.67	26.69	26.72	26.72			
400	26.82	26.86	26.83	26.85	26.85	26.88	26.88	26.87			
500	26.98	27.02	26.99	27.00	27.00	27.01	27.01	27.01			

SIGMA-T LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	24.29	24.50	24.49	24.44	24.49	24.56	24.62	24.70	24.78	25.06
10	24.33	24.49	24.49	24.45	24.50	24.55	24.64	24.71	24.82	25.10
20	24.34	24.49	24.49	24.47	24.50	24.58	24.66	24.78	24.86	25.22
30	24.34	24.49	24.49	24.47	24.51	24.60	24.68	24.85	24.94	25.43
50	24.41	24.52	24.50	24.50	24.57	24.64	24.78	25.04	25.29	25.74
75	24.56	24.64	24.68	24.64	24.72	24.84	25.05	25.43	25.69	
100	25.00	25.00	25.13	25.00	25.13	25.23	25.50	25.78	25.98	
125	25.47	25.40	25.60	25.41	25.55	25.65	25.85	26.05	26.20	
150	25.82	25.74	25.94	25.78	25.91	25.95	26.10	26.24	26.33	
200	26.31	26.31	26.31	26.25	26.32	26.35	26.40	26.47	26.52	
250	26.52	26.54	26.51	26.48	26.52	26.53	26.56	26.59	26.62	
300	26.64	26.66	26.64	26.62	26.65	26.65	26.67	26.71		
400	26.84	26.83	26.85	26.83	26.84	26.84	26.86	26.87		
500	26.98	26.98	26.99	26.99	26.99	27.00	27.01	27.01		





APRIL
SIGMA-T

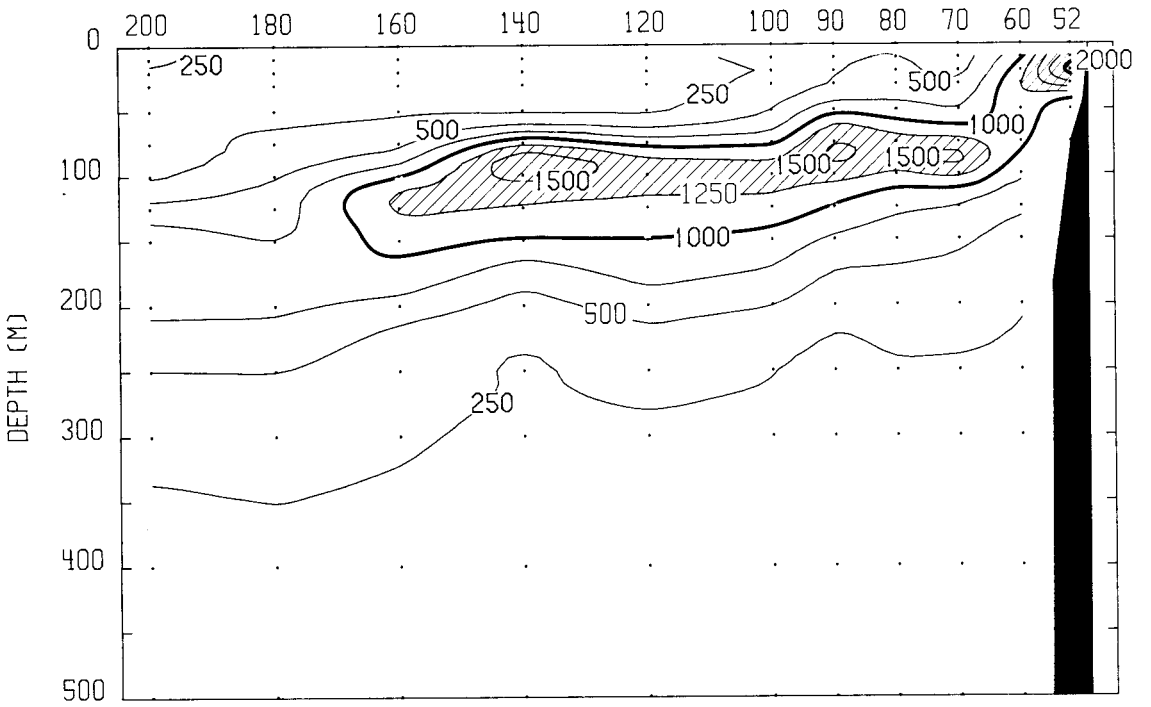
STABILITY (10E-8/M) LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0											
10	400	33	166	200	208	312	388	482	307	764	1616
20	141	-16	133	183	208	219	507	603	346	1164	2488
30	166	48	136	25	130	287	505	647	440	1268	1823
50	250	194	227	166	175	478	949	854	725	1215	698
75	173	293	422	1242	894	931	1555	1320	1373	1005	
100	205	469	1017	1691	1387	1338	1395	1214	1392	770	
125	590	619	1308	1229	1178	1175	972	802	735	526	
150	899	748	1101	959	1004	922	700	600	549	379	
200	832	808	646	392	623	509	312	363	353	244	
250	495	509	327	221	316	251	186	236	214	206	
300	292	304	271	204	224	196	172	186	156	167	
400	194	216	192	172	167	151	142	144	147	126	
500											

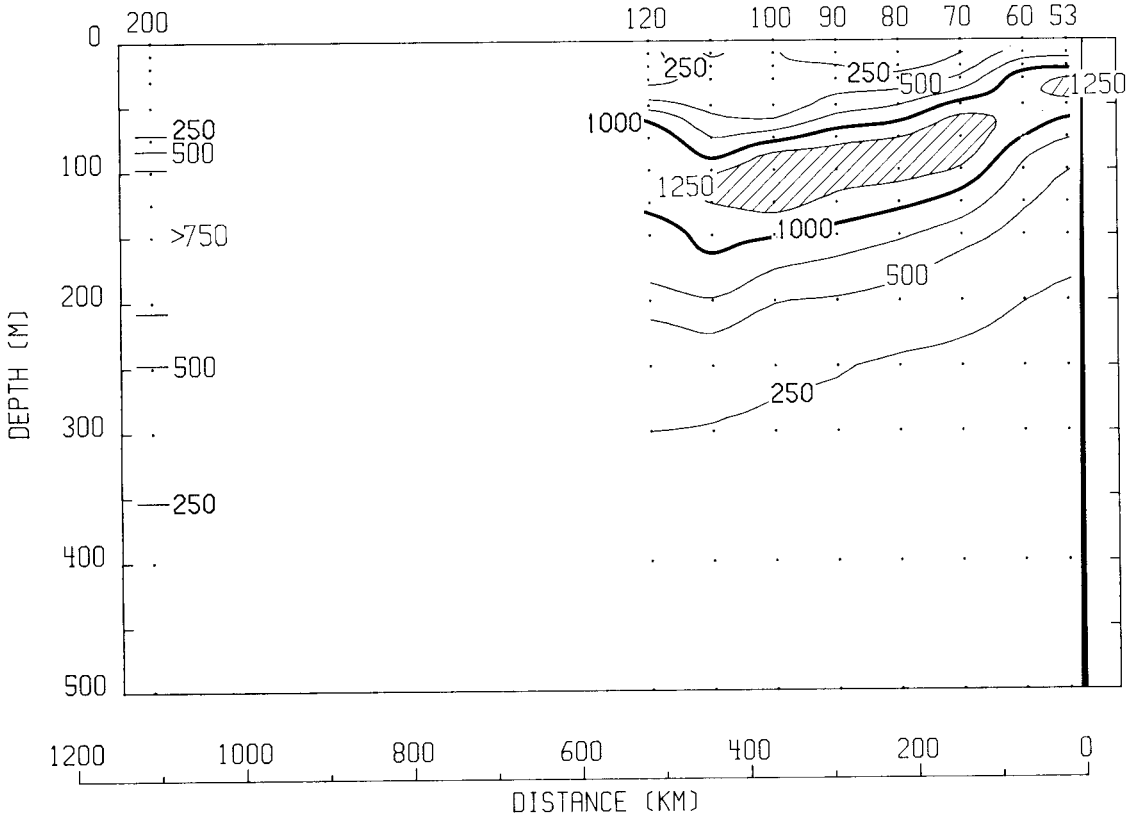
STABILITY (10E-8/M) LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0									
10	333	169	625	256	99	89	165	471	510
20	16	110	462	242	267	142	340	932	919
30	54	146	325	355	430	279	523	1287	1394
50	85	680	379	286	605	727	1080	1192	1189
75	303	1194	707	919	1156	1244	1480	999	733
100	797	1127	1188	1527	1385	1398	1261	676	474
125	874	1026	1278	1388	1165	1078	906	528	375
150	872	925	1040	1031	897	793	614	386	313
200	799	610	752	501	475	405	294	251	220
250	476	330	366	260	253	232	216	193	184
300	274	249	240	220	198	191	178	166	152
400	218	167	153	163	145	155	143	126	114
500									

LINE 60



LINE 70



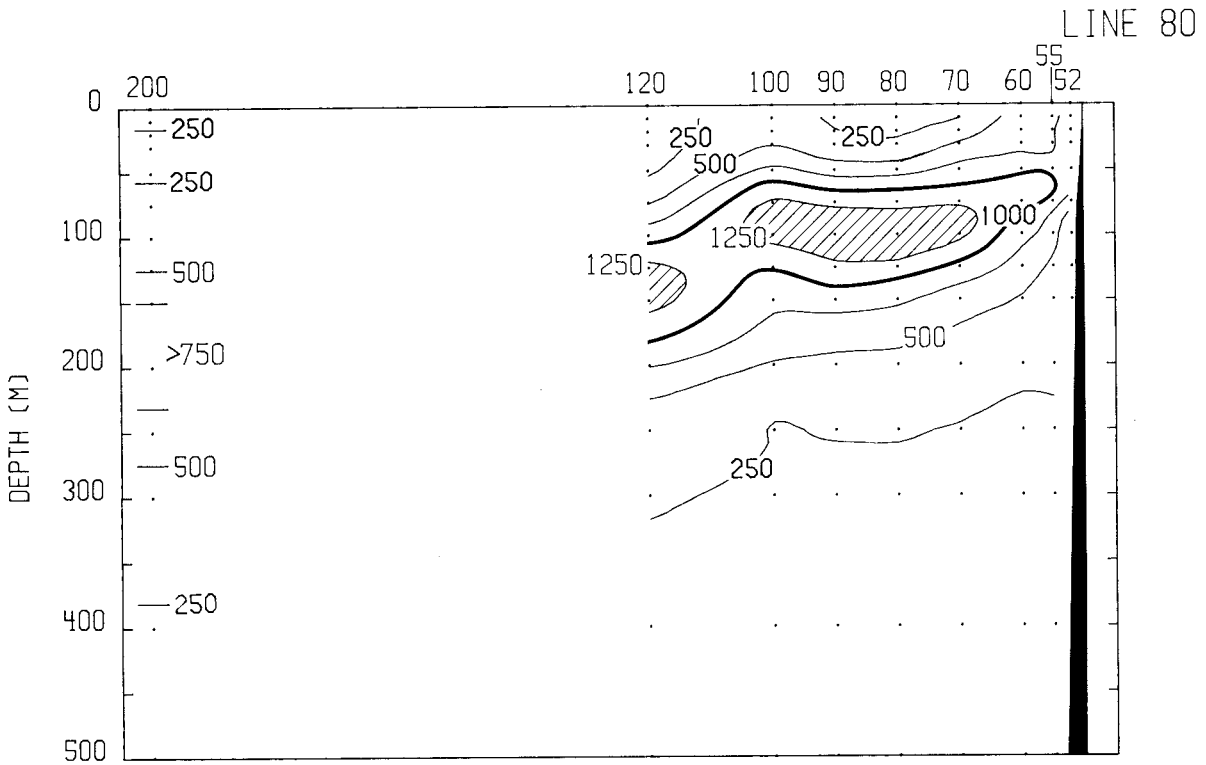
APRIL
STABILITY

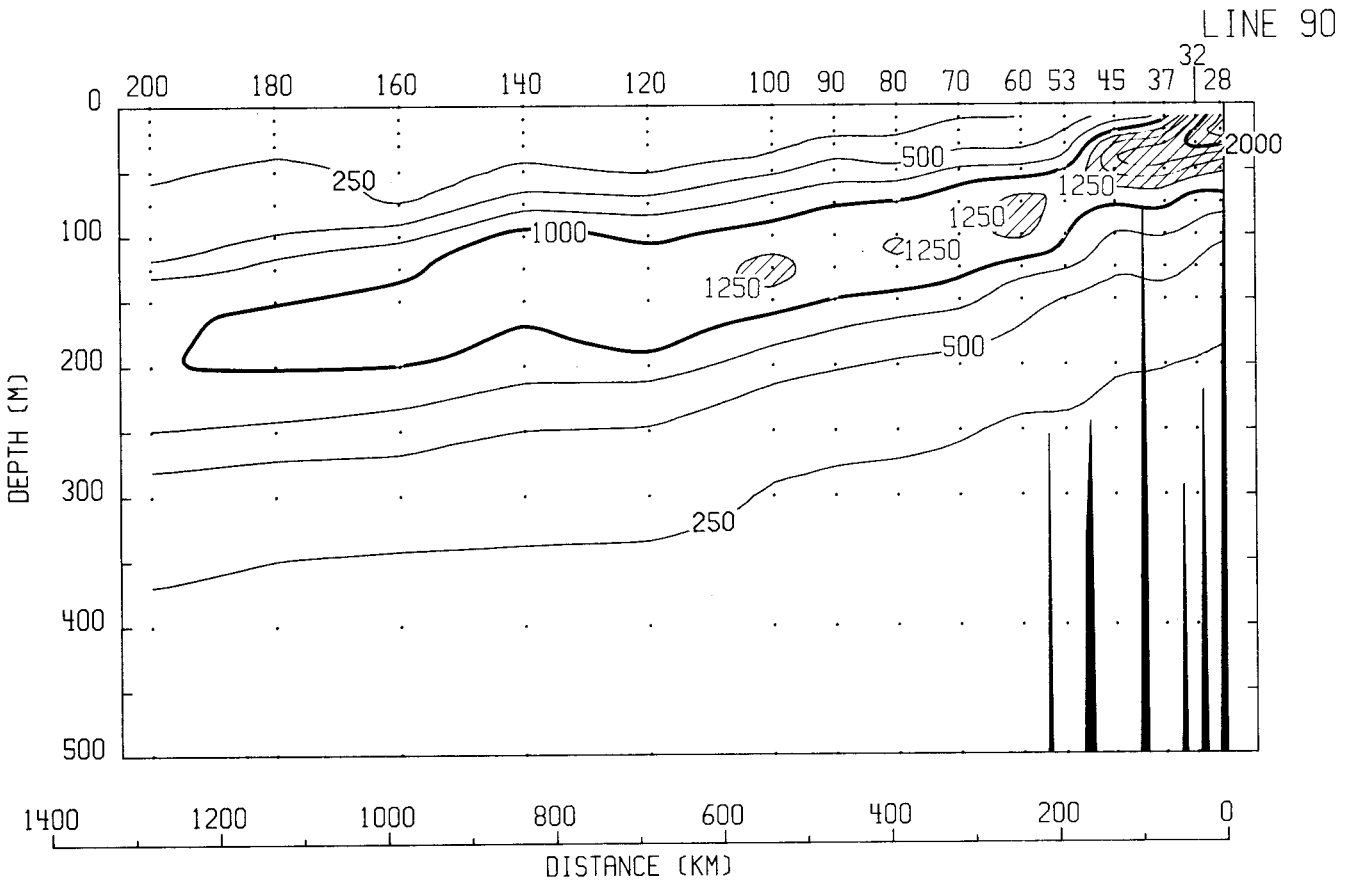
STABILITY (10E-8/M) LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0									
10	416	125	435	159	170	143	509	403	959
20	150	92	461	264	204	359	867	626	1236
30	58	134	489	307	234	510	642	547	1045
50	210	177	846	612	621	837	952	1010	730
75	274	447	1337	1176	1165	1226	1059	1062	469
100	326	885	1361	1434	1434	1357	832	646	223
125	495	1330	989	1213	1184	956	640	455	340
150	756	1389	767	874	790	616	485	324	
200	941	776	462	436	426	345	280	260	
250	636	378	232	259	256	241	212	212	
300	399	279	198	193	205	199	183	155	
400	240	172	151	142	150	149	135	131	
500									

STABILITY (10E-8/M) LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0															
10	62	199	0	75	131	200	202	75	168	159	262	461	474	1265	2299
20	62	187	0	158	101	191	161	249	399	413	544	996	1232	2352	2714
30	49	220	93	233	102	173	299	281	404	402	583	1615	1729	2205	2153
50	152	395	118	286	217	435	649	558	812	833	995	1710	1751	1425	1207
75	279	465	235	671	594	835	989	1006	1113	1350	1186	1003	1108	871	881
100	263	523	676	1127	952	1133	1177	1265	1160	1339	1005	694	787	668	513
125	623	831	967	1163	1086	1321	1147	1214	1090	900	780	518	566	496	373
150	960	993	1090	1020	1157	1154	991	910	841	561	478	396	441	392	322
200	1001	1015	1009	842	902	597	520	469	438	365	308	260	256	237	
250	744	672	617	493	481	319	290	286	265	216	224	200	194	175	
300	404	354	343	284	299	238	226	220	193	173	161	164	176	160	
400	219	189	184	194	181	179	169	166	146	147	125	125	141	127	
500															





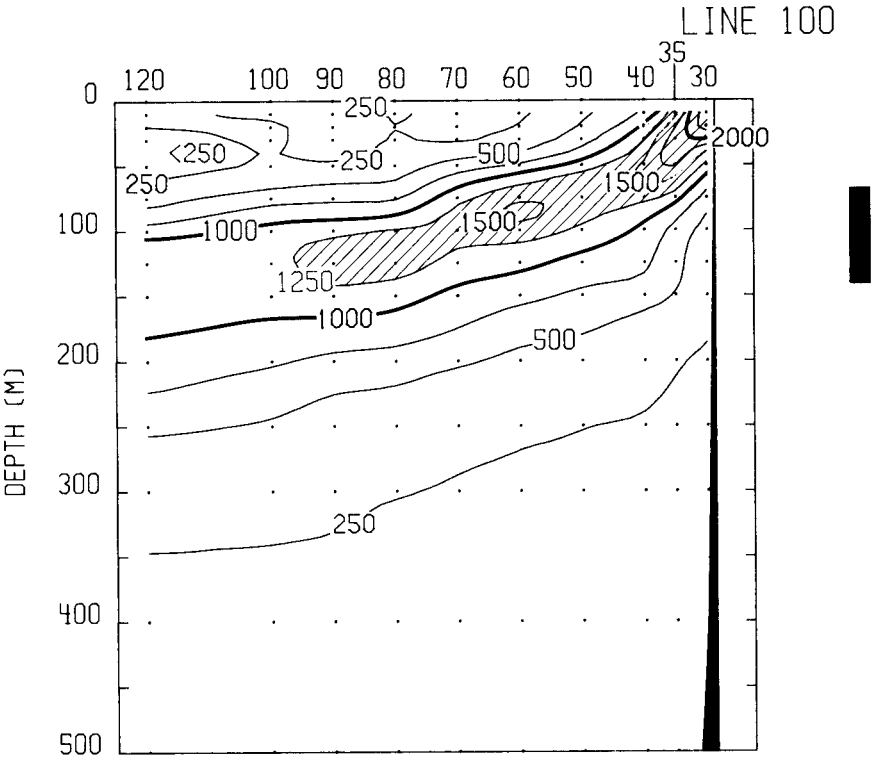
APRIL
STABILITY

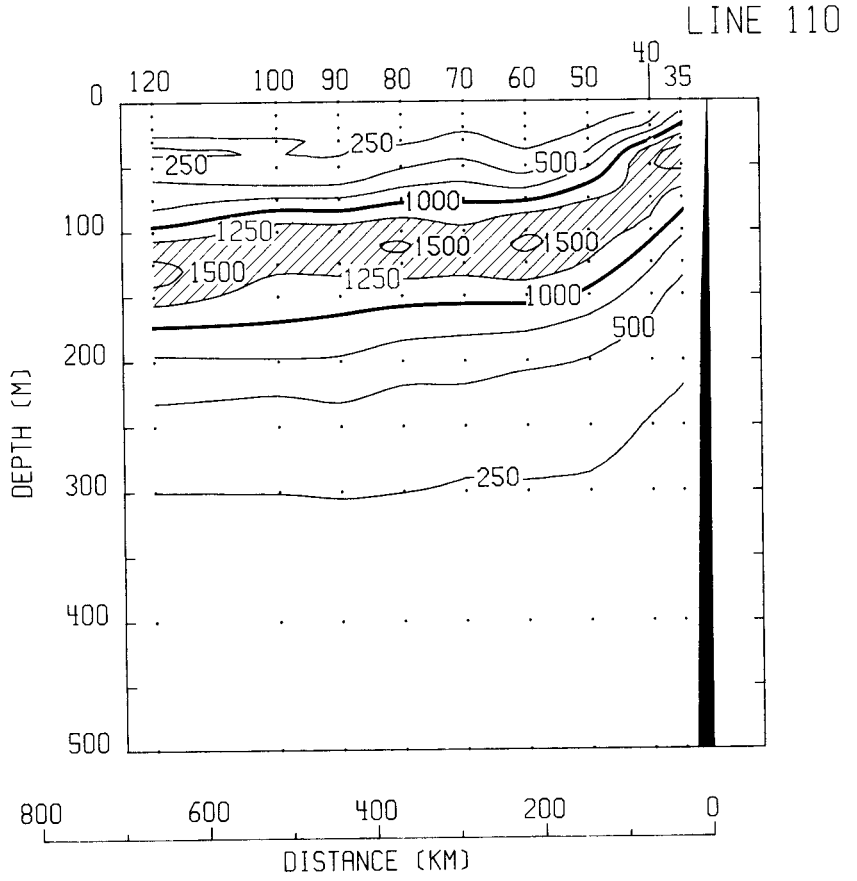
STABILITY (10E-8/M) LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0										
10	264	181	152	279	234	163	409	636	1049	2557
20	291	333	181	246	128	266	513	971	1914	2869
30	140	281	141	271	185	294	604	1144	2008	1843
50	129	274	268	347	612	780	1125	1533	1971	1014
75	397	650	699	695	1185	1493	1466	1341	1183	547
100	874	1100	1187	1292	1359	1453	1198	951	654	368
125	1248	1175	1381	1427	1138	1063	916	826	556	337
150	1198	1078	1182	1107	924	823	695	615	496	292
200	898	783	675	640	538	428	392	310	273	207
250	557	464	373	358	288	263	251	235	202	167
300	312	297	276	258	230	211	209	190	178	
400	188	191	186	164	165	157	155	149	137	
500										

STABILITY (10E-8/M) LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0									
10	87	119	189	93	196	88	99	200	731
20	287	279	264	53	210	128	217	435	1178
30	284	246	239	183	313	153	301	954	1424
50	321	269	258	472	595	344	682	1569	1615
75	659	795	763	954	954	940	1234	1372	1100
100	1080	1390	1374	1474	1293	1523	1429	1181	743
125	1553	1324	1369	1439	1332	1460	1249	822	506
150	1398	1101	1095	1073	1066	1085	935	585	385
200	702	724	720	604	596	542	489	354	243
250	397	372	408	353	345	308	313	235	205
300	248	250	256	250	238	240	233	180	164
400	173	173	165	160	175	171	156	138	132
500									





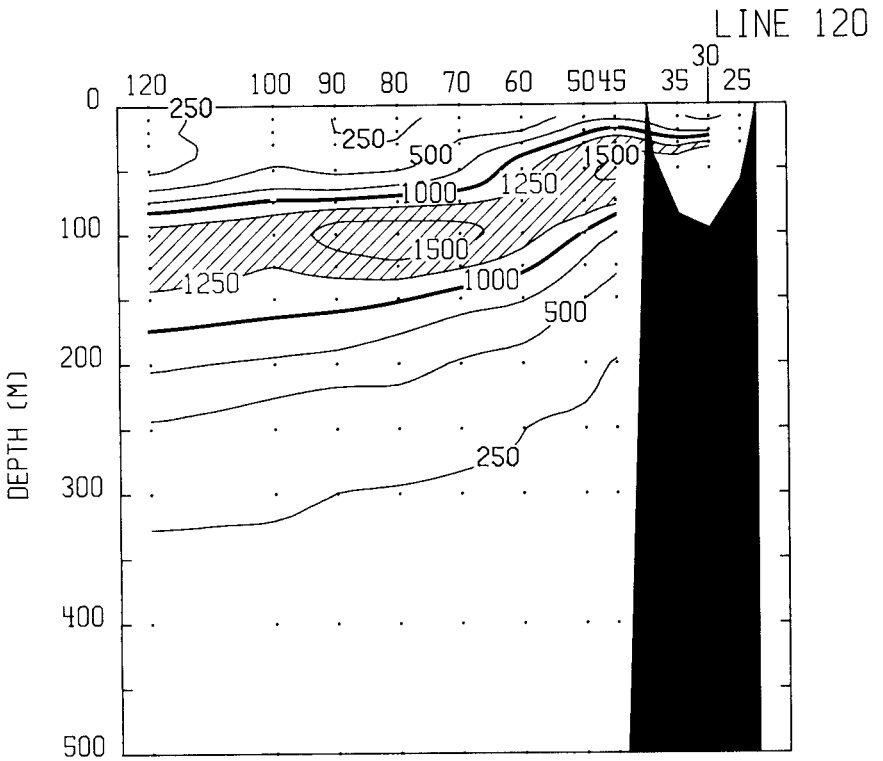
APRIL
STABILITY

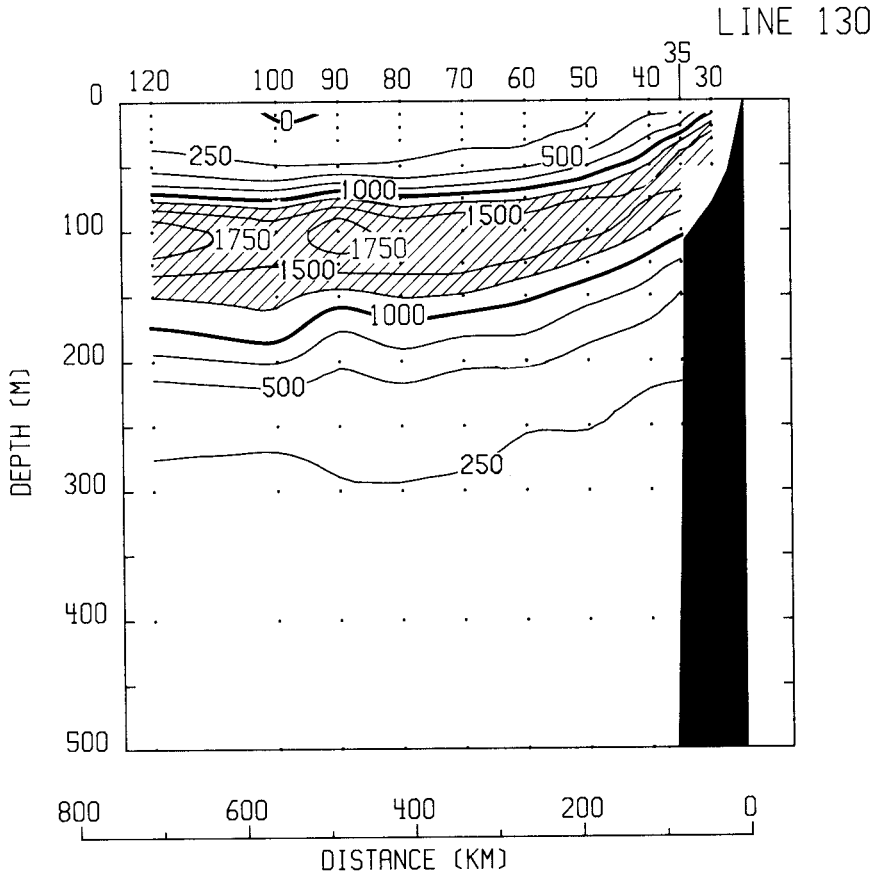
STABILITY (10E-8/M) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0											
10	100	490	230	193	255	209	544	488	544	291	392
20	275	389	220	228	438	462	915	1114	561	566	1164
30	171	294	299	210	541	733	1238	1667	1051	1247	
50	168	543	430	459	713	1164	1710	1887			
75	754	1037	1062	1135	1196	1345	1558	1314			
100	1408	1393	1612	1651	1591	1410	990	676			
125	1458	1237	1366	1443	1299	1092	688	503			
150	1189	1094	1079	1018	865	782	493	384			
200	794	690	640	578	473	409	283	233			
250	456	400	338	355	302	247	214	184			
300	274	291	244	236	221	213	169	164			
400	181	170	169	153	157	160	147	138			
500											

STABILITY (10E-8/M) LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0										
10	250	-33	10	112	37	82	194	402	435	758
20	50	16	9	75	68	252	217	691	580	1658
30	122	35	9	76	170	199	324	753	1170	1946
50	416	243	243	279	375	430	730	1259	1788	
75	1190	981	1313	1002	1132	1195	1514	1542	1399	
100	1933	1608	1943	1633	1752	1703	1685	1244	1014	
125	1673	1506	1651	1588	1595	1470	1185	920	674	
150	1248	1322	1106	1282	1224	1042	839	643	448	
200	656	791	492	657	528	547	411	309	294	
250	275	287	306	323	287	250	253	216		
300	219	184	242	241	229	200	202	203		
400	163	150	169	179	163	173	164	143		
500										





APRIL
STABILITY

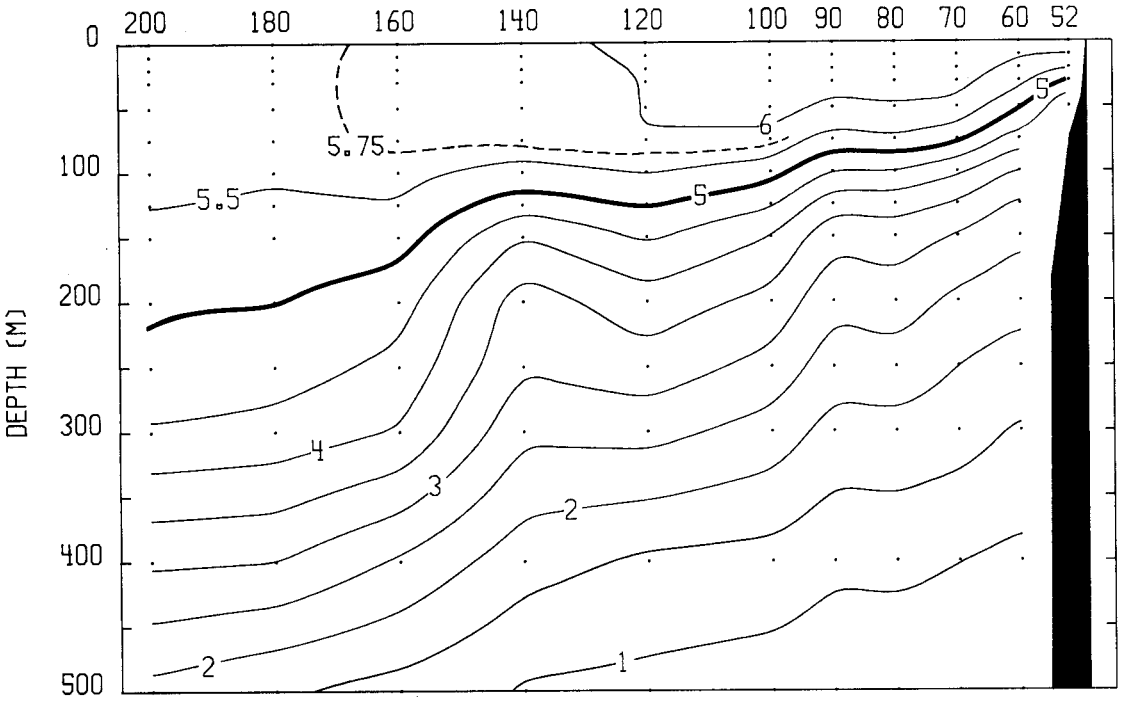
OXYGEN (ML/L) LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	5.63	5.53	5.88	5.98	6.03	6.22	6.07	6.22	6.24	6.12	6.22
10	5.65	5.59	5.87	5.92	6.04	6.22	6.03	6.19	6.20	6.05	6.09
20	5.69	5.59	5.89	5.91	6.01	6.24	6.07	6.19	6.21	5.92	5.56
30	5.70	5.58	5.92	5.92	6.00	6.24	6.09	6.18	6.18	5.73	4.89
50	5.64	5.57	5.88	5.91	6.00	6.21	5.94	5.98	5.91	5.07	3.99
75	5.54	5.56	5.81	5.83	6.00	5.88	5.30	5.48	5.16	4.23	
100	5.62	5.55	5.64	5.31	5.54	5.26	4.48	4.48	4.09	3.42	
125	5.54	5.43	5.49	4.71	5.05	4.59	3.68	3.73	3.44	2.89	
150	5.30	5.29	5.21	3.99	4.58	3.99	3.15	3.26	2.95	2.59	
200	5.01	5.01	4.72	3.24	3.79	3.35	2.63	2.76	2.39	2.17	
250	4.99	4.75	4.36	3.05	3.30	2.83	2.23	2.31	2.00	1.77	
300	4.42	4.31	3.97	2.60	2.68	2.30	1.81	1.84	1.73	1.43	
400	3.08	3.01	2.42	1.70	1.40	1.31	1.10	1.13	1.00	0.88	
500	1.85	1.52	1.31	0.93	0.85	0.75	0.64	0.61	0.63	0.60	

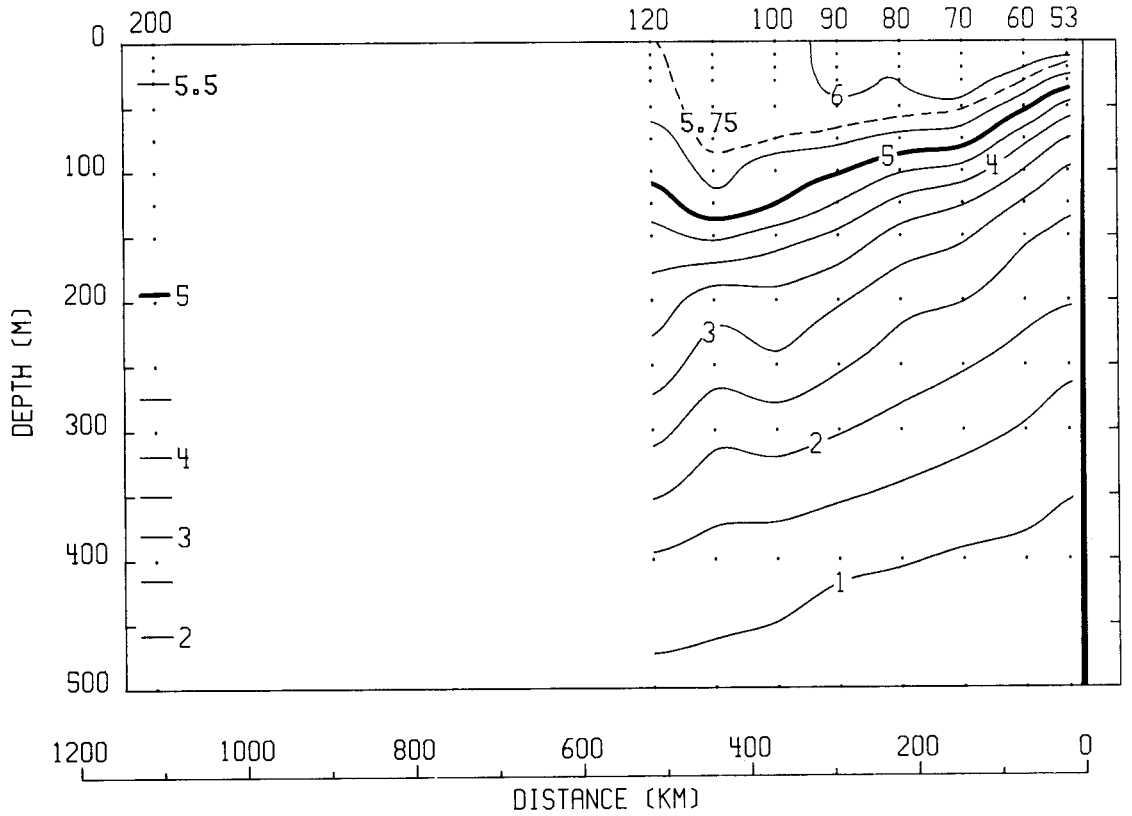
OXYGEN (ML/L) LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	5.49	5.71	5.92	5.93	6.05	6.00	6.17	6.14	6.11
10	5.51	5.67	5.80	5.97	6.02	5.99	6.19	6.13	6.14
20	5.51	5.64	5.85	5.96	6.03	6.01	6.19	6.05	5.69
30	5.50	5.63	5.79	5.94	6.03	5.99	6.17	5.87	5.25
50	5.50	5.61	5.76	5.90	6.00	5.95	5.99	5.26	4.16
75	5.49	5.32	5.83	5.77	5.64	5.41	5.30	4.10	3.34
100	5.47	5.09	5.67	5.19	5.10	4.52	4.35	3.46	2.84
125	5.41	4.66	5.49	5.14	4.49	3.84	3.53	2.91	2.54
150	5.30	4.30	4.65	4.22	3.89	3.30	3.08	2.55	2.37
200	4.96	3.82	3.14	3.35	3.06	2.62	2.53	2.17	2.03
250	4.68	3.34	2.66	2.96	2.56	2.27	2.05	1.81	1.57
300	4.31	2.71	2.08	2.23	2.04	1.81	1.65	1.46	1.22
400	2.68	1.44	1.28	1.22	1.08	1.03	0.93	0.88	0.78
500	1.50	0.85	0.82	0.78	0.60	0.57	0.57	0.59	0.52

LINE 60



LINE 70



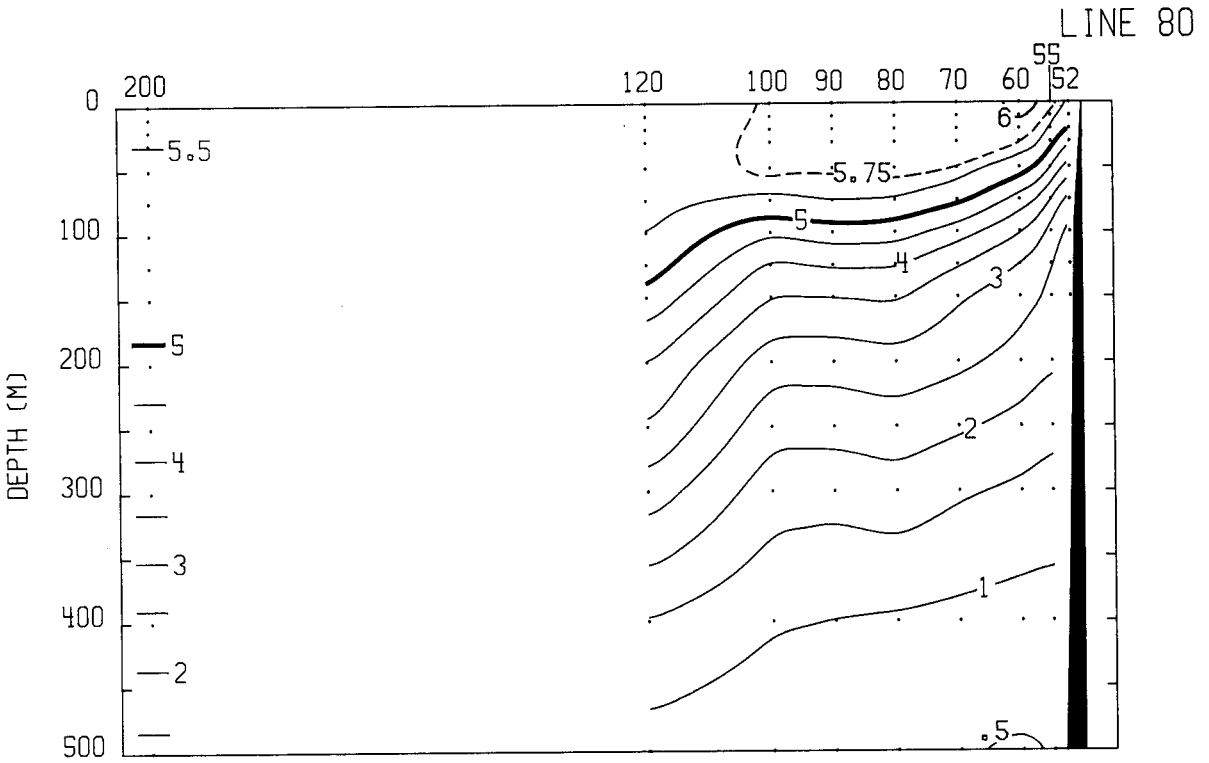
APRIL
OXYGEN

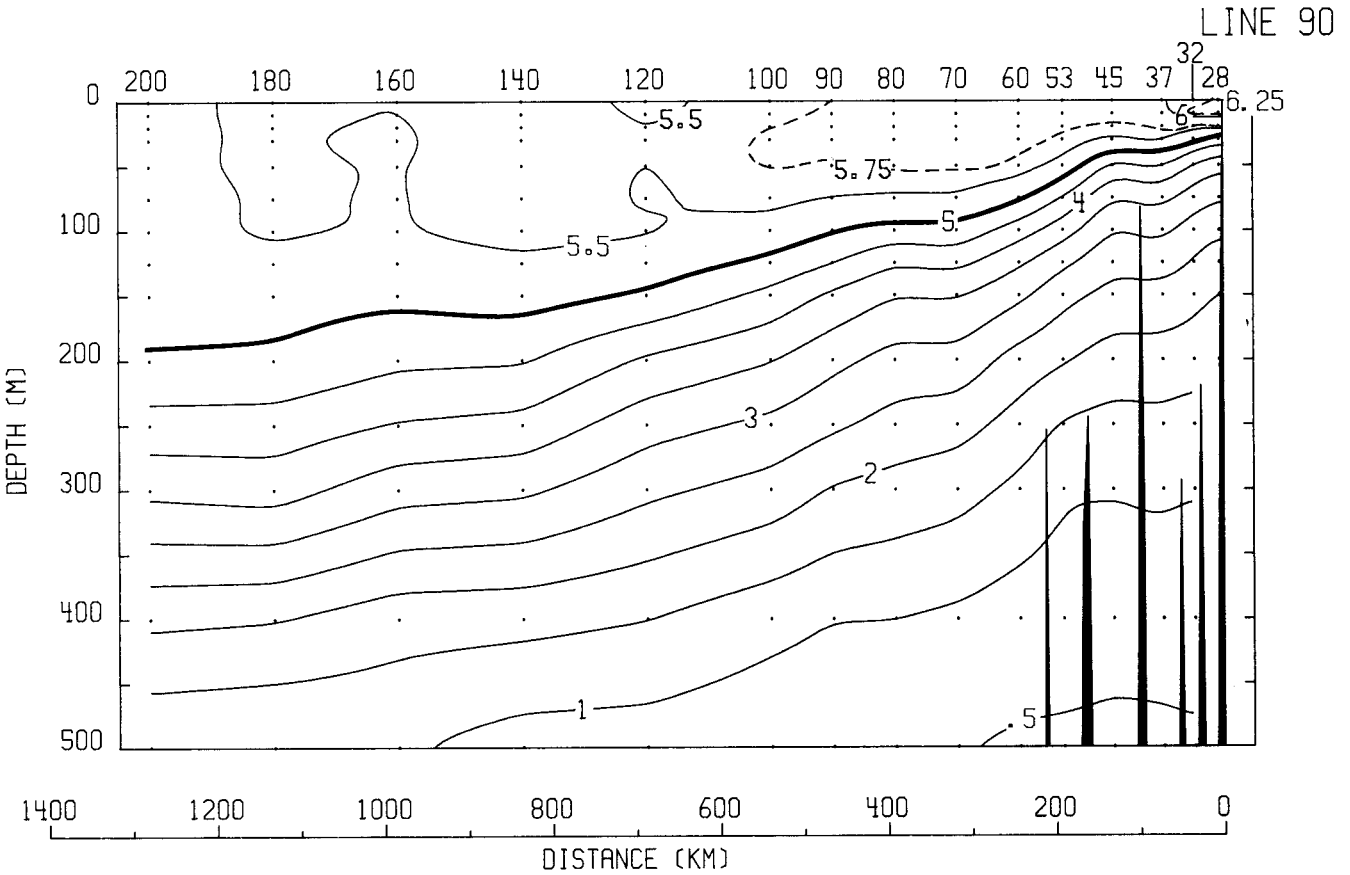
OXYGEN (ML/L) LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	5.52	5.64	5.79	5.73	5.85	5.92	6.01	5.86	5.38
10	5.57	5.68	5.79	5.75	5.91	5.90	6.01	5.74	5.23
20	5.53	5.62	5.85	5.76	5.92	5.90	5.84	5.67	4.77
30	5.50	5.60	5.87	5.77	5.92	5.91	5.75	5.51	4.28
50	5.47	5.63	5.87	5.81	5.88	5.71	5.33	4.79	3.45
75	5.41	5.67	5.41	5.58	5.52	5.23	4.31	3.64	2.51
100	5.39	5.54	4.56	4.78	4.76	4.24	3.54	2.94	2.17
125	5.33	5.29	3.89	4.06	4.04	3.53	2.96	2.61	2.05
150	5.31	4.84	3.49	3.49	3.58	3.06	2.69	2.42	1.96
200	4.84	4.03	2.70	2.69	2.82	2.62	2.33	2.04	
250	4.26	3.49	2.15	2.18	2.27	2.08	1.83	1.62	
300	3.72	2.77	1.72	1.67	1.80	1.57	1.41	1.30	
400	2.38	1.47	1.05	0.98	0.94	0.87	0.78	0.77	
500	1.35	0.79	0.61	0.57	0.55	0.51	0.45	0.52	

OXYGEN (ML/L) LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	5.45	5.54	5.51	5.73	5.38	5.69	5.75	5.74	5.86	5.79	5.84	5.86	5.91	6.19	6.29
10	5.43	5.56	5.49	5.74	5.47	5.65	5.76	5.77	5.84	5.83	5.93	5.93	5.90	6.29	6.41
20	5.44	5.54	5.46	5.76	5.50	5.72	5.77	5.78	5.83	5.80	5.87	5.73	5.89	5.70	5.58
30	5.45	5.53	5.44	5.74	5.51	5.77	5.78	5.80	5.86	5.81	5.73	5.45	5.68	5.10	4.66
50	5.44	5.55	5.48	5.74	5.49	5.75	5.72	5.79	5.81	5.72	5.37	4.32	4.57	3.93	3.60
75	5.39	5.54	5.48	5.72	5.45	5.62	5.52	5.47	5.47	5.09	4.41	3.48	3.66	3.26	3.01
100	5.41	5.54	5.47	5.64	5.55	5.34	5.02	4.81	4.87	4.24	3.68	2.98	3.16	2.80	2.58
125	5.34	5.42	5.32	5.42	5.29	4.89	4.53	4.05	4.15	3.57	3.07	2.62	2.70	2.49	2.17
150	5.25	5.20	5.11	5.20	4.94	4.36	3.89	3.51	3.54	3.11	2.63	2.36	2.37	2.23	1.94
200	4.94	4.92	4.60	4.55	3.92	3.53	3.14	2.82	2.83	2.29	2.03	1.76	1.78	1.67	1.43
250	4.29	4.28	3.96	3.84	3.20	2.88	2.59	2.32	2.20	1.79	1.43	1.34	1.38	1.32	
300	3.61	3.72	3.19	3.10	2.61	2.30	1.95	1.81	1.68	1.38	1.05	1.03	1.09	1.03	
400	2.10	2.02	1.69	1.65	1.51	1.17	1.01	1.00	0.90	0.73	0.67	0.62	0.65	0.62	
500	1.04	0.98	1.06	0.76	0.74	0.59	0.55	0.53	0.51	0.44	0.44	0.42	0.42	0.46	





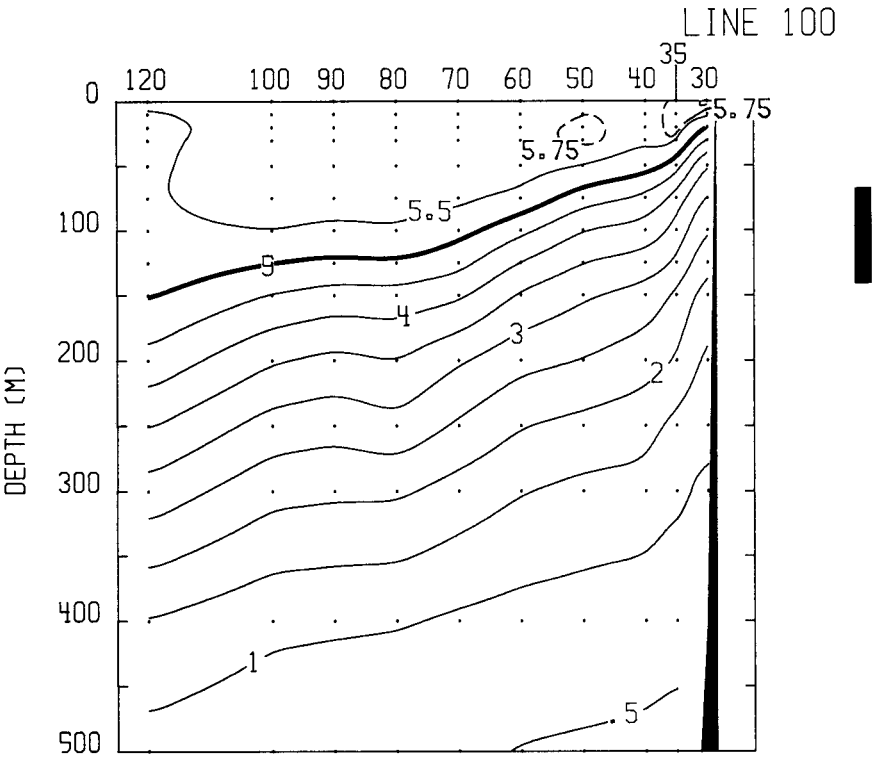
APRIL
OXYGEN

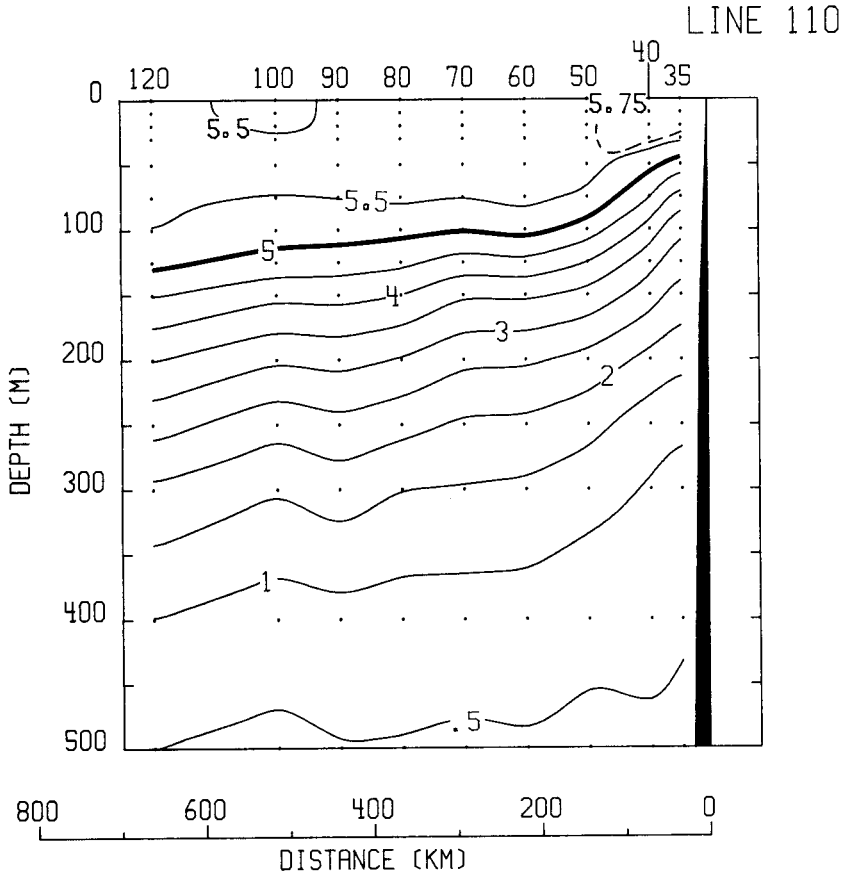
OXYGEN (ML/L) LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	5.56	5.59	5.56	5.57	5.63	5.64	5.72	5.55	5.84	6.02
10	5.46	5.57	5.61	5.61	5.63	5.64	5.72	5.52	5.85	5.66
20	5.44	5.59	5.61	5.61	5.67	5.65	5.78	5.57	5.85	4.83
30	5.46	5.61	5.60	5.60	5.67	5.68	5.77	5.57	5.79	4.21
50	5.48	5.59	5.62	5.61	5.70	5.69	5.55	5.27	4.86	3.26
75	5.48	5.63	5.64	5.68	5.64	5.43	4.71	4.38	3.79	2.81
100	5.42	5.53	5.43	5.47	5.18	4.63	3.99	3.80	3.38	2.41
125	5.29	5.04	4.91	4.95	4.68	3.96	3.49	3.29	2.98	2.01
150	5.05	4.46	4.28	4.31	4.09	3.42	3.06	2.80	2.42	1.70
200	4.35	3.54	3.36	3.50	3.05	2.65	2.48	2.22	2.00	1.30
250	3.54	2.79	2.67	2.86	2.42	2.02	1.86	1.69	1.34	1.09
300	2.80	2.15	2.09	2.08	1.79	1.52	1.36	1.32	1.06	0.88
400	1.47	1.12	1.07	1.04	0.92	0.81	0.77	0.68	0.61	
500	0.80	0.60	0.56	0.54	0.53	0.48	0.44	0.42	0.39	

OXYGEN (ML/L) LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	5.58	5.42	5.54	5.54	5.65	5.58	5.70	5.84	6.04
10	5.58	5.40	5.55	5.58	5.54	5.68	5.68	5.93	6.00
20	5.60	5.45	5.53	5.56	5.55	5.64	5.69	5.97	5.85
30	5.63	5.54	5.52	5.58	5.60	5.64	5.69	5.78	5.62
50	5.60	5.59	5.55	5.58	5.68	5.61	5.67	5.22	4.69
75	5.54	5.51	5.54	5.63	5.56	5.69	5.48	4.59	3.65
100	5.53	5.24	5.27	5.16	5.00	5.18	4.80	3.83	2.99
125	5.15	4.82	4.74	4.64	4.29	4.42	4.00	3.19	2.63
150	4.53	4.10	4.16	4.01	3.53	3.57	3.36	2.76	2.25
200	3.52	3.05	3.16	2.96	2.60	2.57	2.35	1.84	1.60
250	2.70	2.15	2.37	2.16	1.91	1.90	1.67	1.21	1.08
300	1.90	1.53	1.75	1.49	1.46	1.41	1.20	0.95	0.79
400	0.99	0.73	0.82	0.75	0.75	0.75	0.61	0.62	0.51
500	0.49	0.38	0.48	0.47	0.42	0.46	0.39	0.44	0.44





APRIL
OXYGEN

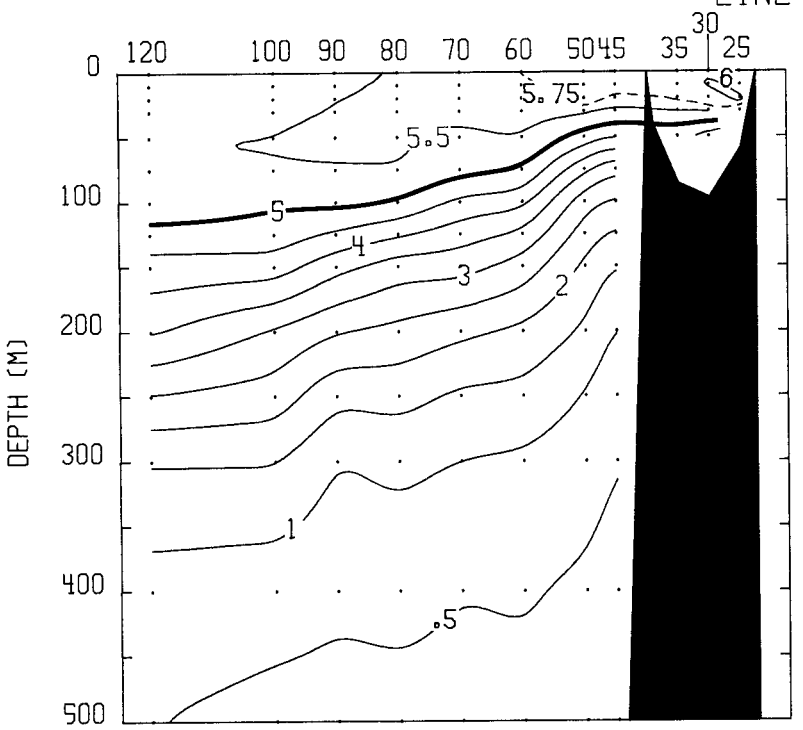
OXYGEN (ML/L) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	5.49	5.41	5.38	5.51	5.64	5.76	5.76	5.93	5.80	5.95	5.95
10	5.47	5.42	5.48	5.55	5.61	5.67	5.83	5.87	5.83	6.01	5.98
20	5.47	5.39	5.49	5.54	5.62	5.64	5.82	5.72	5.79	5.95	6.01
30	5.48	5.42	5.52	5.51	5.60	5.67	5.64	5.45	5.58	5.66	5.59
50	5.49	5.52	5.61	5.55	5.42	5.52	4.85	4.45	4.69	3.96	
75	5.48	5.48	5.48	5.52	5.20	5.07	3.59	3.04			
100	5.46	5.06	5.16	4.98	4.37	4.18	2.68	2.40			
125	4.79	4.79	4.42	4.06	3.72	3.38	2.27	1.89			
150	4.29	4.25	3.64	3.23	3.20	2.80	1.90	1.46			
200	3.56	2.92	2.52	2.35	2.10	1.88	1.42	0.93			
250	2.47	2.26	1.61	1.67	1.41	1.35	0.98	0.62			
300	1.53	1.52	1.01	1.13	0.99	0.92	0.68	0.50			
400	0.76	0.68	0.58	0.62	0.51	0.54	0.41	0.34			
500	0.51	0.36	0.35	0.36	0.35	0.36	0.33	0.27			

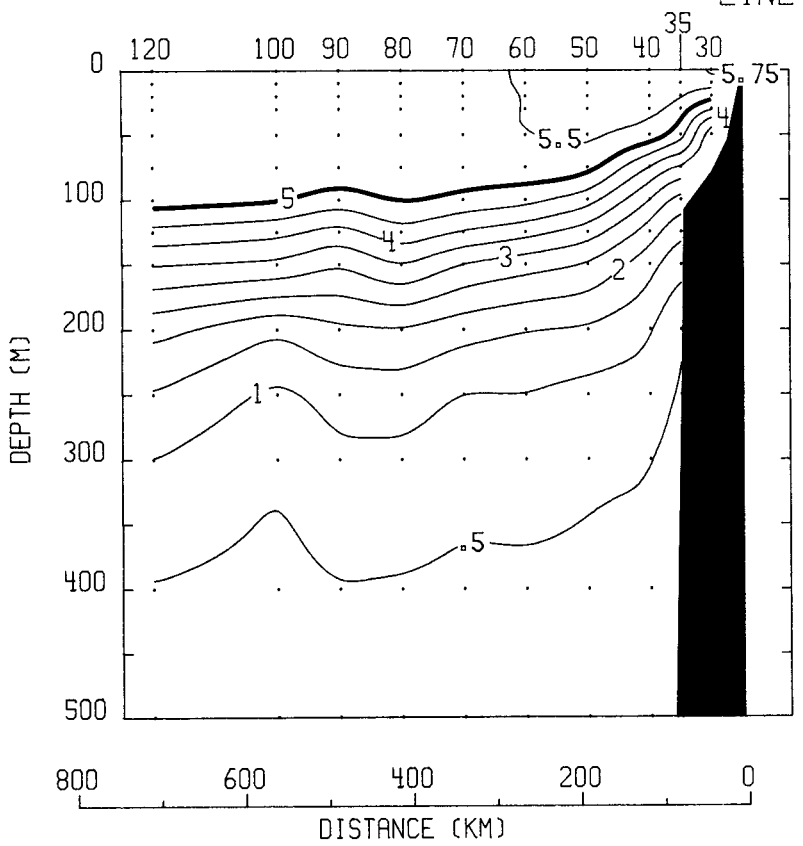
OXYGEN (ML/L) LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	5.34	5.49	5.32	5.34	5.42	5.52	5.67	5.66	5.71	5.78
10	5.37	5.49	5.36	5.39	5.38	5.56	5.63	5.68	5.68	5.69
20	5.34	5.48	5.37	5.39	5.39	5.48	5.67	5.66	5.59	5.32
30	5.32	5.48	5.38	5.38	5.42	5.52	5.70	5.61	5.45	4.37
50	5.43	5.47	5.35	5.37	5.44	5.49	5.62	5.38	4.81	2.67
75	5.32	5.50	5.31	5.41	5.42	5.36	5.29	3.95	3.29	
100	5.22	5.08	4.74	5.11	4.84	4.70	4.25	3.02	2.19	
125	4.35	4.13	3.78	4.36	3.99	3.69	3.27	2.28	1.51	
150	3.52	3.40	3.00	3.54	2.94	2.69	2.45	1.70	1.09	
200	2.16	1.55	1.90	1.94	1.68	1.50	1.43	1.09	0.43	
250	1.47	0.87	1.19	1.25	0.97	0.99	0.83	0.73	0.41	
300	1.00	0.56	0.90	0.88	0.68	0.73	0.58	0.53	0.32	
400	0.47	0.34	0.48	0.45	0.39	0.39	0.40	0.34	0.26	
500	0.32	0.32	0.29	0.31	0.30	0.28	0.27	0.27	0.20	

LINE 120



LINE 130



APRIL
OXYGEN

PERCENT OXYGEN SATURATION LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	101.3	98.0	101.7	101.8	102.1	103.5	101.0	102.3	101.5	98.6	100.2
10	101.2	99.1	101.4	100.7	101.7	103.2	99.8	101.6	100.6	97.1	97.7
20	101.3	99.1	101.6	100.2	101.1	103.1	100.2	101.1	100.5	94.1	88.2
30	101.5	99.0	101.9	100.3	100.9	103.0	100.3	100.6	99.7	91.0	76.8
50	100.5	98.7	100.9	100.2	100.3	101.6	96.4	96.3	95.1	79.7	62.4
75	98.7	98.2	99.5	98.1	99.0	95.4	84.9	86.0	82.9	65.9	
100	100.2	98.0	96.3	86.2	89.5	84.3	70.0	68.6	63.8	52.6	
125	97.4	94.6	91.1	74.6	80.0	72.7	56.6	56.8	53.0	44.1	
150	90.4	89.9	83.5	61.9	71.0	62.3	48.0	49.7	45.1	39.5	
200	80.3	80.2	73.2	49.6	57.3	51.6	39.7	41.4	36.0	32.6	
250	77.8	73.8	66.7	46.2	49.2	43.1	33.5	34.3	29.6	26.3	
300	67.4	65.6	59.6	38.7	39.4	34.2	26.8	27.1	25.1	21.0	
400	45.1	44.0	35.1	24.4	20.1	18.9	15.6	16.2	14.5	12.3	
500	26.4	21.5	18.5	13.2	12.0	10.4	9.1	8.5	8.9	8.1	

PERCENT OXYGEN SATURATION LINE 070 APRIL

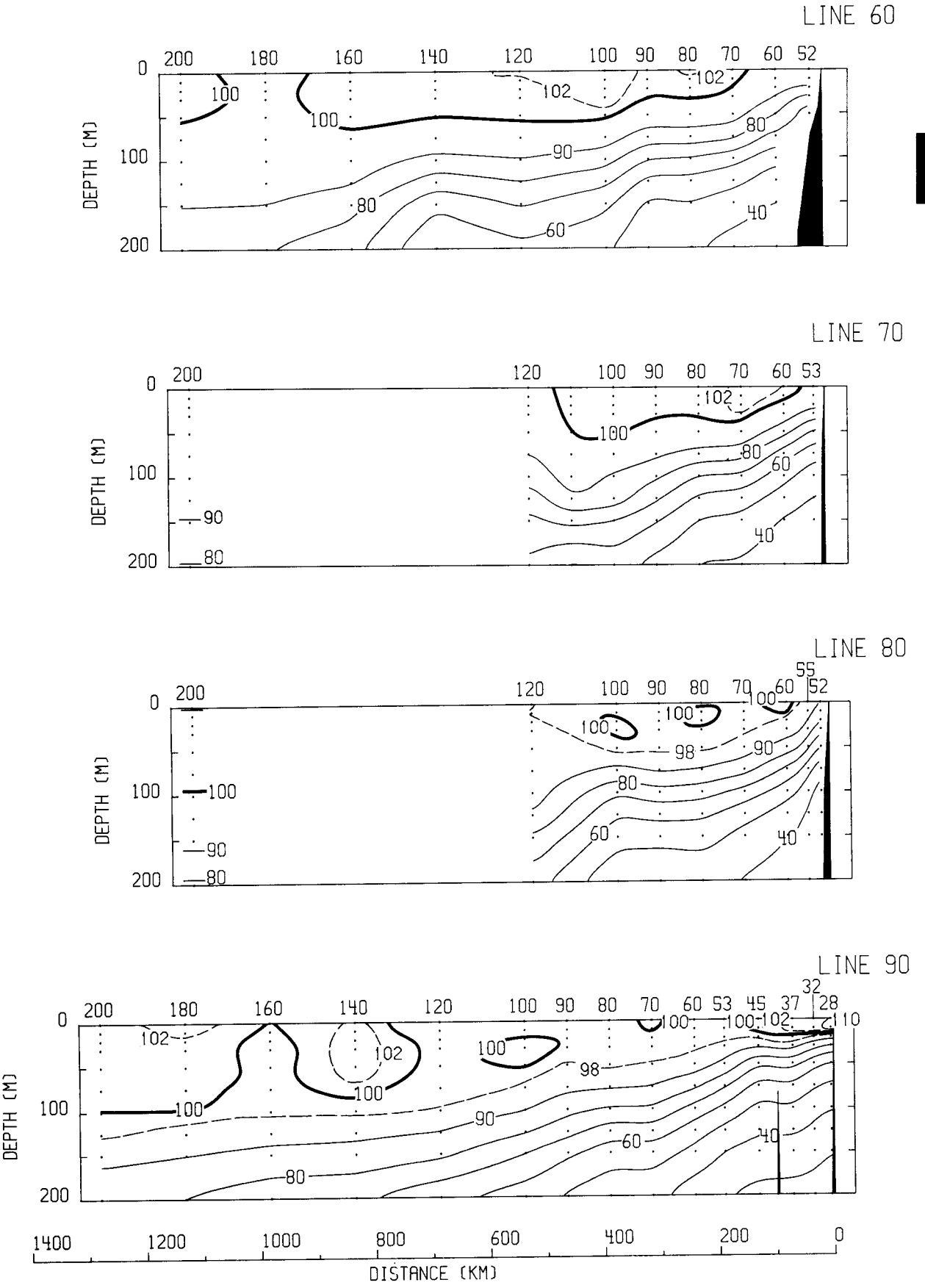
DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	99.3	98.4	101.6	100.6	100.9	100.5	102.3	102.0	97.6
10	99.4	97.3	101.2	100.9	100.8	100.2	102.2	101.2	99.1
20	99.3	96.8	101.4	100.7	100.5	100.4	102.3	99.6	92.1
30	99.1	96.5	101.0	100.7	100.3	100.0	102.1	96.3	85.1
50	99.1	95.8	100.3	100.8	99.0	99.0	98.7	84.8	66.2
75	99.1	89.3	99.1	98.5	92.2	86.9	85.0	64.3	52.4
100	98.6	83.3	94.8	88.2	82.0	69.3	68.3	53.2	43.7
125	93.8	74.4	89.7	86.5	71.5	57.6	54.7	44.9	38.8
150	89.5	67.2	73.3	69.4	60.7	49.2	47.6	39.0	36.2
200	78.9	58.3	47.1	54.2	46.2	39.1	38.8	32.5	30.9
250	72.6	50.3	38.1	47.9	38.5	33.3	30.8	26.9	23.6
300	65.7	40.0	29.3	35.4	30.3	26.1	24.4	21.6	18.0
400	39.2	20.8	17.5	18.4	15.6	14.4	13.4	12.8	11.2
500	21.4	12.0	11.6	11.3	8.5	7.8	8.1	8.1	7.1

PERCENT OXYGEN SATURATION LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	98.8	97.9	100.1	97.8	99.2	99.8	100.6	97.1	88.4
10	101.7	98.6	99.7	98.0	100.1	99.3	100.5	94.8	85.6
20	101.1	97.1	100.3	99.0	100.1	98.4	96.6	94.5	77.2
30	100.7	96.7	100.3	98.9	99.9	98.5	94.8	90.9	68.6
50	100.3	97.7	98.9	98.8	98.4	94.9	86.6	76.6	54.5
75	100.0	97.6	87.6	92.5	90.3	85.1	67.5	56.9	39.1
100	100.1	94.6	71.1	76.6	74.5	66.1	54.3	45.0	33.6
125	97.9	90.0	60.0	63.0	61.8	53.9	44.8	39.9	31.7
150	93.2	78.5	53.8	53.5	54.3	46.4	40.6	37.0	30.1
200	78.1	64.2	40.6	40.3	41.9	39.2	34.8	31.4	
250	66.3	54.3	32.2	32.1	33.3	30.9	26.9	24.5	
300	56.5	42.1	25.5	24.2	26.1	22.7	20.5	19.3	
400	34.8	22.1	15.1	14.0	13.2	12.1	11.1	11.2	
500	19.1	11.3	8.2	8.0	7.6	7.0	6.3	7.3	

PERCENT OXYGEN SATURATION LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	100.8	102.2	99.9	102.5	95.5	98.8	99.4	99.0	100.5	98.5	98.5	100.6	102.9	108.0	110.0
10	100.5	102.3	99.6	102.6	97.0	98.0	99.3	99.4	100.2	99.1	99.8	101.6	102.5	109.3	110.4
20	100.6	101.8	99.0	102.9	99.1	101.0	99.9	99.9	99.8	98.7	98.6	97.9	101.4	96.9	93.7
30	100.8	101.8	98.6	102.5	99.2	101.4	100.0	99.9	99.8	98.6	95.4	92.2	96.4	85.0	76.7
50	100.6	102.0	99.1	102.7	99.1	100.5	97.8	99.1	97.7	95.9	88.2	70.3	74.7	63.3	57.7
75	99.8	100.8	99.1	101.2	98.4	97.2	92.7	91.6	90.5	82.3	69.9	55.6	58.2	51.4	47.3
100	100.2	100.3	98.6	98.4	96.6	90.7	82.7	78.7	78.7	66.0	56.9	47.0	49.4	43.7	40.2
125	98.1	96.4	93.6	92.0	89.8	80.8	73.3	64.4	65.7	54.4	46.3	40.8	41.6	38.6	33.7
150	93.3	90.2	87.0	86.7	82.3	69.9	61.6	54.7	55.0	47.1	39.2	36.4	36.2	34.4	30.1
200	81.2	79.3	73.5	71.5	62.3	54.6	48.4	42.9	43.1	33.8	30.3	26.9	26.6	25.4	22.0
250	67.0	66.2	61.1	58.6	49.0	44.1	39.1	34.7	33.4	25.9	21.2	20.2	20.2	20.1	
300	54.7	56.1	48.0	46.4	39.3	34.8	29.0	26.6	25.3	19.9	15.4	15.4	15.8	15.5	
400	30.6	29.5	24.7	24.0	22.4	17.1	14.6	14.3	13.0	10.3	9.7	9.1	9.2	9.2	
500	14.8	14.0	15.2	10.8	10.7	8.4	7.9	7.6	7.2	6.2	6.2	6.2	6.1	6.7	



APRIL
PERCENT OXYGEN SATURATION

PERCENT OXYGEN SATURATION LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	101.1	99.3	98.5	98.9	100.7	99.6	100.3	97.7	103.9	104.3
10	99.1	99.1	99.2	99.5	100.2	99.5	100.2	97.0	103.9	96.6
20	99.2	100.0	99.6	99.3	100.6	99.7	100.7	98.1	102.7	79.6
30	99.5	100.1	99.4	99.0	100.6	99.9	99.9	97.0	100.3	67.9
50	99.8	99.8	99.8	98.7	100.5	99.2	94.6	89.0	80.7	50.9
75	99.8	99.8	98.7	98.7	96.8	91.1	77.8	70.6	60.6	43.8
100	98.0	96.3	92.1	92.9	86.1	74.1	64.0	59.6	53.2	38.0
125	93.6	84.8	80.5	80.7	75.4	61.9	54.5	51.2	46.5	32.0
150	86.6	72.7	67.7	67.9	64.5	52.6	46.8	43.3	37.4	27.1
200	70.1	56.9	51.1	53.4	46.9	39.7	37.4	34.2	30.4	20.0
250	55.0	44.1	39.9	43.0	36.6	29.2	27.8	25.9	20.2	16.6
300	42.4	33.4	30.7	30.6	26.5	21.9	20.5	20.1	15.9	13.3
400	20.9	16.2	15.2	14.9	13.1	11.9	11.3	10.1	8.9	
500	11.2	8.4	8.0	7.6	7.7	6.9	6.4	6.0	5.5	

PERCENT OXYGEN SATURATION LINE 110 APRIL

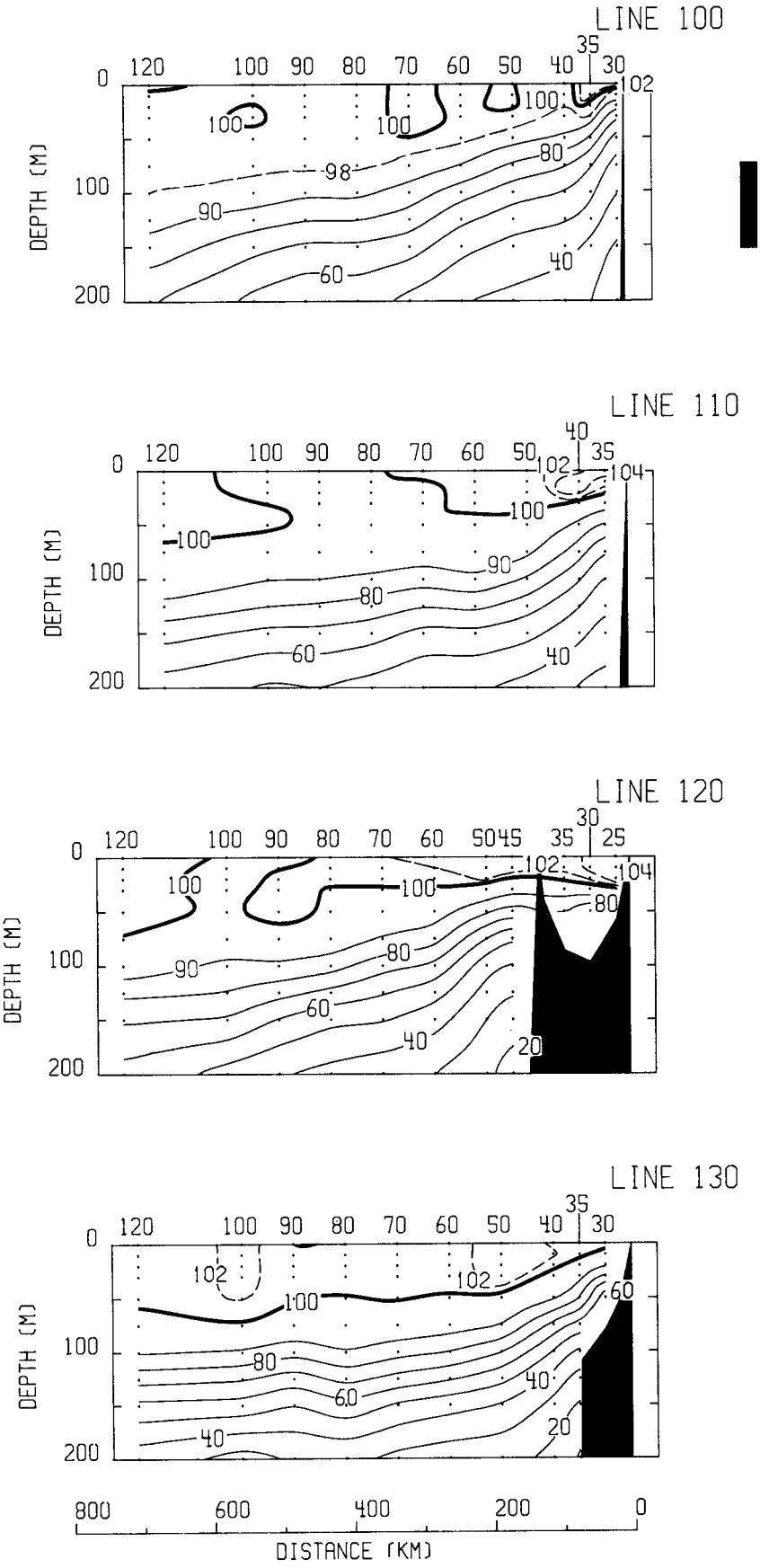
DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	101.5	98.7	100.0	99.5	101.4	99.9	101.5	102.9	104.7
10	101.4	98.1	100.1	100.1	99.4	101.3	101.2	104.5	103.7
20	101.7	98.9	99.6	99.9	99.3	100.6	101.1	104.7	100.1
30	101.8	100.2	99.3	100.1	99.8	100.4	100.9	100.9	95.2
50	101.1	100.6	99.5	99.4	100.2	99.5	99.4	88.3	76.8
75	99.5	98.1	98.1	99.1	96.0	99.5	93.5	75.5	58.0
100	97.6	90.4	90.5	87.4	83.9	88.0	79.2	61.4	46.9
125	87.4	80.5	78.6	75.8	70.1	72.7	64.1	50.3	40.9
150	73.7	66.6	67.0	63.9	56.3	57.3	52.9	43.0	34.8
200	54.8	47.6	49.0	45.8	40.4	40.2	36.5	28.5	25.7
250	41.3	33.1	36.2	32.9	29.3	29.3	25.5	18.6	17.4
300	28.5	23.2	26.4	22.5	22.2	21.5	18.2	14.4	12.4
400	14.6	10.9	12.1	11.1	11.1	11.2	9.1	9.1	7.8
500	7.1	5.6	7.1	6.9	6.1	6.7	5.7	6.4	6.7

PERCENT OXYGEN SATURATION LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	101.6	99.8	98.7	100.1	102.0	103.4	102.7	104.7	102.5	104.7	105.3
10	101.2	99.4	100.4	100.8	101.3	101.6	103.6	103.2	102.5	105.4	105.8
20	101.3	98.6	100.4	100.3	101.1	100.7	102.7	100.0	101.2	103.8	105.6
30	101.3	99.0	100.7	99.7	100.0	100.7	98.4	93.9	97.1	98.2	96.7
50	101.3	99.7	101.8	99.6	95.8	95.5	82.2	74.2	79.5	65.9	
75	100.1	97.1	98.2	97.3	90.4	85.2	58.7	49.1			
100	97.3	87.1	88.7	84.5	73.3	68.1	43.1	38.4			
125	82.1	80.1	73.3	66.7	60.5	54.1	36.0	30.0			
150	71.2	68.9	58.8	51.9	50.9	44.2	29.7	23.1			
200	56.2	45.6	39.6	36.8	33.0	29.4	22.0	14.6			
250	38.1	34.7	24.9	25.7	21.8	21.0	15.0	9.6			
300	23.3	23.0	15.4	17.1	15.1	14.1	10.4	7.6			
400	11.3	10.0	8.6	9.2	7.7	8.1	6.1	5.1			
500	7.4	5.3	5.1	5.3	5.1	5.3	4.8	3.9			

PERCENT OXYGEN SATURATION LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	100.2	102.5	99.6	100.0	101.2	101.2	102.9	101.9	101.8	101.6
10	100.8	102.5	100.3	100.7	100.4	101.9	102.1	102.1	101.2	99.6
20	100.1	102.4	100.4	100.6	100.5	100.5	102.5	101.0	99.2	92.0
30	99.7	102.4	100.6	100.4	100.7	100.9	102.6	99.5	96.1	75.3
50	101.0	102.0	100.1	99.9	100.4	99.9	100.3	93.8	82.3	44.1
75	98.0	101.0	98.1	99.4	98.1	95.2	92.1	66.4	54.2	
100	91.9	89.3	83.1	90.2	83.6	80.4	70.5	49.2	35.5	
125	73.0	70.4	63.7	73.3	66.4	60.8	53.0	36.6	24.1	
150	57.2	56.2	49.2	57.6	47.6	43.6	39.2	27.1	17.5	
200	34.0	24.7	30.0	30.8	26.7	23.8	22.5	17.1	6.9	
250	22.9	13.7	18.6	19.6	15.2	15.4	12.9	11.4	6.5	
300	15.4	8.7	13.9	13.5	10.6	11.2	8.9	8.2	5.0	
400	7.1	5.1	7.2	6.8	5.9	5.9	6.0	5.1	3.9	
500	4.7	4.7	4.3	4.5	4.5	4.1	4.0	3.9	2.9	



APRIL
PERCENT OXYGEN SATURATION

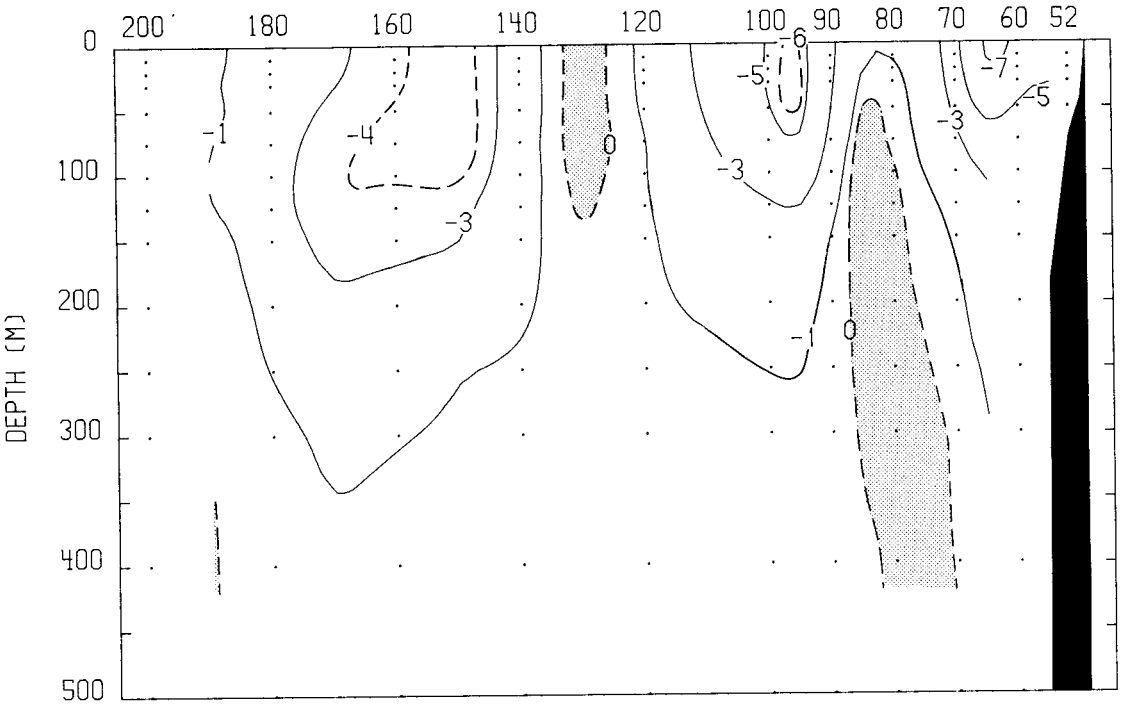
DYNAMIC HT ANOMALY (DYN. M) LINE 060 APRIL

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	1.034	1.026	0.994	0.934	0.945	0.900	0.863	0.856	0.847	0.797	0.763
10	1.004	0.995	0.963	0.903	0.914	0.869	0.831	0.826	0.818	0.768	0.735
20	0.974	0.965	0.931	0.872	0.882	0.838	0.800	0.795	0.789	0.740	0.710
30	0.944	0.935	0.899	0.840	0.851	0.808	0.769	0.766	0.760	0.713	0.687
50	0.885	0.877	0.837	0.777	0.787	0.747	0.709	0.708	0.703	0.663	0.641
75	0.813	0.803	0.757	0.698	0.711	0.675	0.641	0.642	0.636	0.607	0.591
100	0.742	0.731	0.683	0.631	0.638	0.607	0.579	0.582	0.580	0.557	
125	0.671	0.661	0.612	0.570	0.573	0.548	0.527	0.530	0.529	0.511	
150	0.602	0.598	0.553	0.515	0.516	0.494	0.480	0.482	0.482	0.469	
200	0.480	0.479	0.446	0.423	0.418	0.403	0.396	0.396	0.397	0.386	
250	0.380	0.377	0.354	0.341	0.333	0.324	0.318	0.318	0.320	0.312	
300	0.289	0.290	0.274	0.264	0.258	0.250	0.247	0.247	0.250	0.243	
400	0.135	0.135	0.127	0.125	0.122	0.118	0.118	0.116	0.119	0.115	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

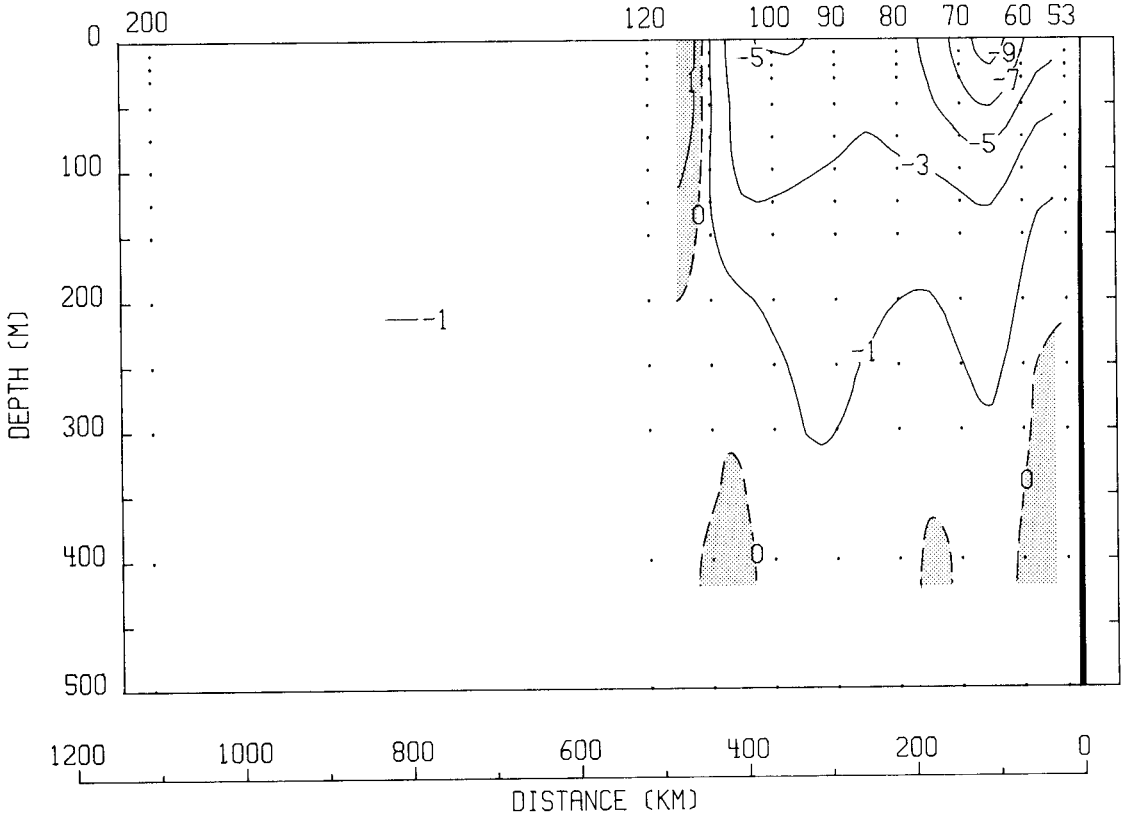
DYNAMIC HT ANOMALY (DYN. M) LINE 070 APRIL

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	1.034	0.952	0.972	0.941	0.909	0.886	0.854	0.786	0.761
10	1.003	0.920	0.938	0.908	0.877	0.855	0.823	0.758	0.734
20	0.971	0.887	0.905	0.876	0.845	0.824	0.792	0.731	0.709
30	0.940	0.855	0.872	0.843	0.814	0.793	0.762	0.705	0.685
50	0.878	0.791	0.808	0.781	0.753	0.733	0.704	0.655	0.640
75	0.801	0.714	0.729	0.703	0.678	0.660	0.636	0.600	0.590
100	0.727	0.644	0.655	0.631	0.612	0.596	0.578	0.551	0.543
125	0.655	0.581	0.587	0.568	0.551	0.539	0.526	0.505	0.500
150	0.590	0.523	0.527	0.513	0.499	0.489	0.479	0.462	0.459
200	0.473	0.423	0.423	0.418	0.407	0.400	0.395	0.383	0.382
250	0.375	0.339	0.337	0.335	0.327	0.321	0.319	0.309	0.310
300	0.289	0.261	0.260	0.260	0.254	0.248	0.247	0.241	0.242
400	0.134	0.124	0.123	0.124	0.121	0.115	0.117	0.114	0.116
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 60



LINE 70



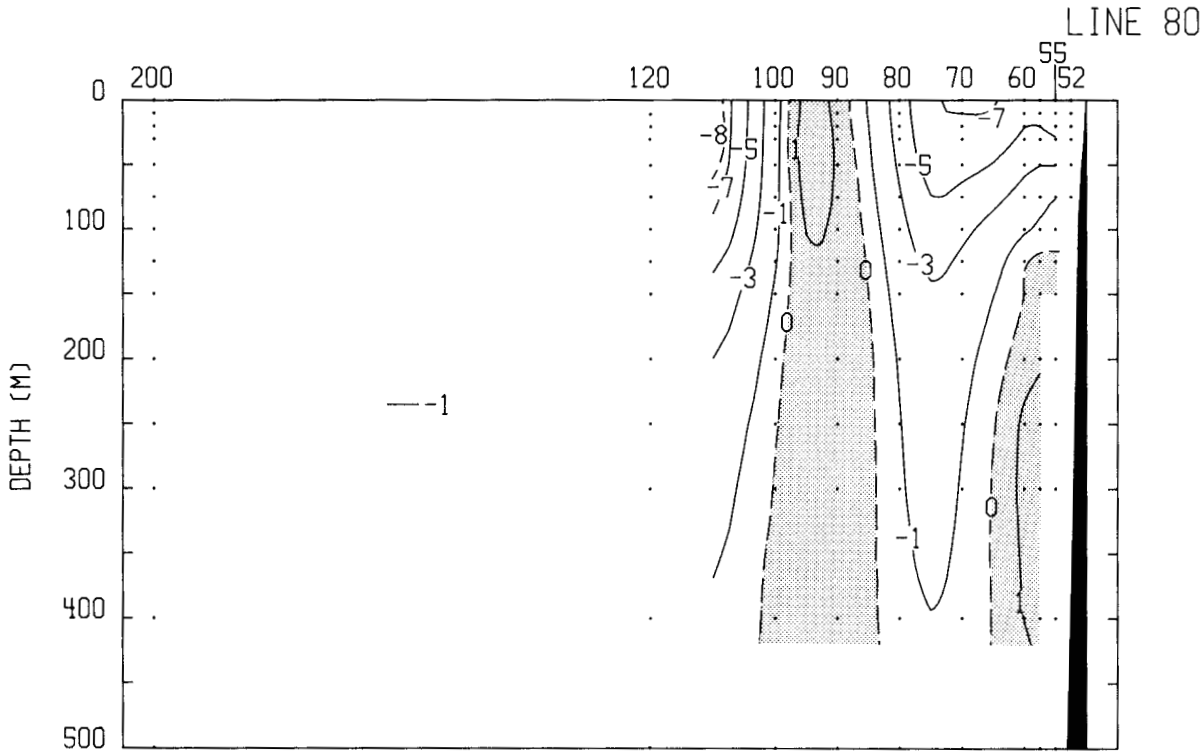
APRIL
GEOSTROPHIC FLOW (CM/S)

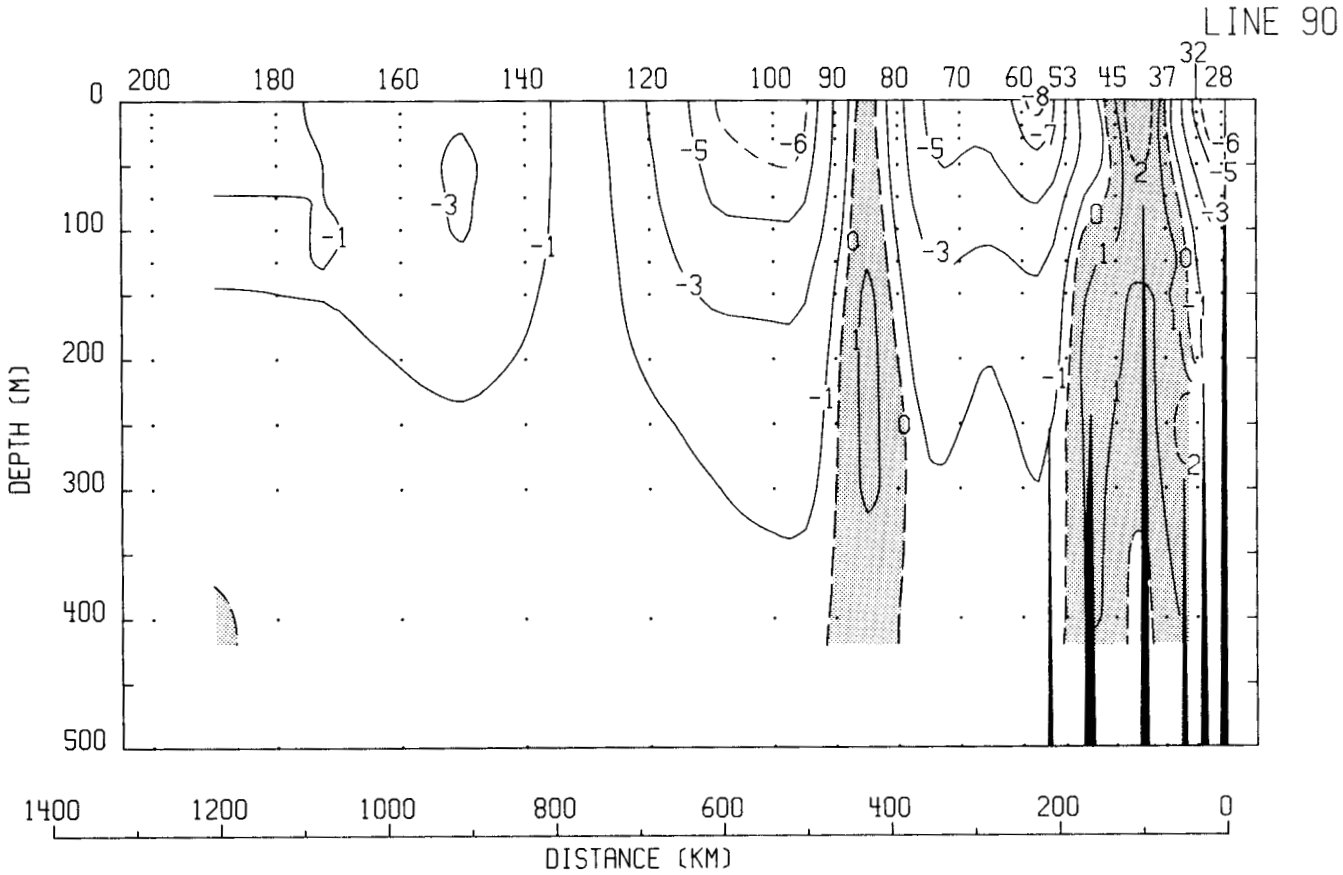
DYNAMIC HT ANOMALY (DYN. M) LINE 080 APRIL

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	1.068	0.995	0.887	0.899	0.894	0.851	0.806	0.789	0.770
10	1.036	0.963	0.855	0.868	0.862	0.821	0.778	0.763	0.746
20	1.005	0.930	0.823	0.836	0.831	0.791	0.751	0.738	0.722
30	0.973	0.898	0.791	0.805	0.801	0.761	0.725	0.713	0.700
50	0.913	0.833	0.730	0.743	0.740	0.703	0.673	0.665	0.658
75	0.833	0.752	0.658	0.670	0.668	0.636	0.614	0.610	0.611
100	0.758	0.675	0.594	0.603	0.602	0.575	0.561	0.559	0.558
125	0.685	0.604	0.537	0.544	0.544	0.522	0.512	0.515	0.514
150	0.615	0.540	0.486	0.493	0.493	0.474	0.468	0.470	0.471
200	0.488	0.433	0.395	0.402	0.404	0.389	0.386	0.389	
250	0.382	0.343	0.318	0.323	0.325	0.312	0.312	0.318	
300	0.289	0.264	0.245	0.251	0.252	0.241	0.242	0.248	
400	0.131	0.123	0.113	0.118	0.120	0.113	0.113	0.118	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 090 APRIL

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	1.064	1.065	1.050	1.019	1.016	0.949	0.910	0.918	0.884	0.852	0.816	0.809	0.826	0.817	0.797
10	1.032	1.031	1.017	0.985	0.983	0.917	0.878	0.886	0.853	0.822	0.787	0.780	0.795	0.786	0.766
20	1.000	0.998	0.984	0.952	0.950	0.884	0.847	0.855	0.822	0.793	0.759	0.750	0.764	0.756	0.737
30	0.968	0.964	0.952	0.918	0.917	0.852	0.815	0.824	0.792	0.763	0.731	0.722	0.734	0.728	0.710
50	0.904	0.898	0.887	0.850	0.850	0.789	0.754	0.762	0.732	0.706	0.678	0.670	0.681	0.678	0.663
75	0.826	0.815	0.804	0.769	0.769	0.711	0.680	0.688	0.662	0.638	0.616	0.614	0.622	0.623	0.610
100	0.749	0.735	0.726	0.691	0.691	0.639	0.612	0.620	0.598	0.579	0.561	0.563	0.570	0.573	0.564
125	0.672	0.660	0.650	0.619	0.619	0.573	0.550	0.560	0.540	0.526	0.511	0.517	0.522	0.527	0.517
150	0.599	0.590	0.578	0.554	0.553	0.515	0.496	0.506	0.489	0.479	0.467	0.474	0.478	0.482	0.475
200	0.470	0.464	0.458	0.442	0.439	0.416	0.401	0.412	0.399	0.395	0.385	0.393	0.396	0.403	0.395
250	0.366	0.363	0.357	0.349	0.347	0.332	0.320	0.330	0.321	0.318	0.312	0.319	0.320	0.329	
300	0.277	0.276	0.273	0.267	0.266	0.255	0.246	0.255	0.249	0.247	0.243	0.249	0.249	0.257	
400	0.128	0.129	0.125	0.124	0.124	0.119	0.118	0.119	0.118	0.118	0.114	0.120	0.118	0.122	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





APRIL
GEOSTROPHIC FLOW (CM/S)

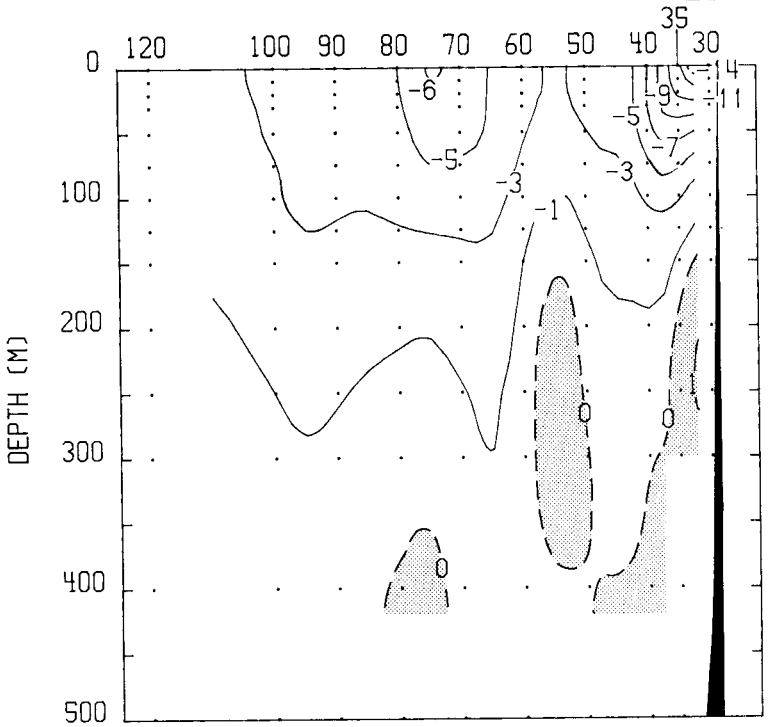
DYNAMIC HT ANOMALY (DYN. M) LINE 100 APRIL

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	1.027	1.000	0.980	0.960	0.925	0.898	0.882	0.859	0.832	0.787
10	0.993	0.967	0.947	0.927	0.893	0.866	0.850	0.827	0.799	0.758
20	0.960	0.934	0.914	0.894	0.861	0.834	0.818	0.795	0.767	0.731
30	0.926	0.901	0.881	0.862	0.829	0.802	0.786	0.764	0.736	0.706
50	0.860	0.834	0.816	0.797	0.766	0.739	0.726	0.706	0.680	0.662
75	0.778	0.754	0.736	0.718	0.690	0.665	0.656	0.640	0.622	0.611
100	0.698	0.678	0.660	0.643	0.621	0.599	0.594	0.581	0.569	0.565
125	0.624	0.607	0.591	0.576	0.560	0.542	0.539	0.529	0.522	0.521
150	0.556	0.544	0.530	0.517	0.505	0.490	0.490	0.482	0.477	0.478
200	0.441	0.434	0.424	0.417	0.411	0.400	0.402	0.397	0.395	0.399
250	0.346	0.343	0.336	0.332	0.329	0.322	0.323	0.320	0.319	0.323
300	0.265	0.263	0.258	0.256	0.255	0.249	0.250	0.249	0.249	0.250
400	0.123	0.122	0.121	0.120	0.121	0.117	0.117	0.117	0.118	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

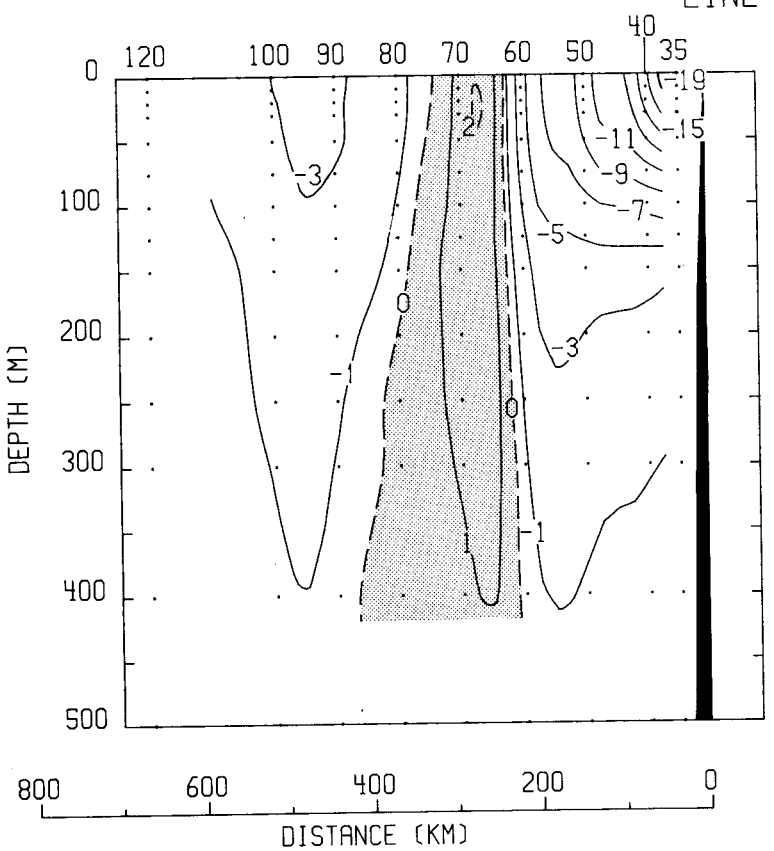
DYNAMIC HT ANOMALY (DYN. M) LINE 110 APRIL

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	1.010	0.996	0.976	0.963	0.962	0.976	0.936	0.870	0.814
10	0.977	0.962	0.943	0.930	0.928	0.942	0.903	0.838	0.784
20	0.941	0.927	0.909	0.895	0.894	0.909	0.870	0.806	0.754
30	0.908	0.894	0.876	0.862	0.861	0.876	0.837	0.774	0.726
50	0.838	0.828	0.810	0.796	0.797	0.810	0.772	0.714	0.674
75	0.756	0.746	0.729	0.716	0.718	0.730	0.696	0.647	0.616
100	0.677	0.668	0.653	0.641	0.644	0.655	0.625	0.587	0.566
125	0.605	0.599	0.585	0.575	0.579	0.589	0.564	0.535	0.519
150	0.541	0.539	0.524	0.516	0.521	0.531	0.509	0.487	0.479
200	0.434	0.434	0.420	0.417	0.421	0.432	0.414	0.401	0.395
250	0.345	0.344	0.333	0.332	0.336	0.346	0.332	0.323	0.319
300	0.266	0.265	0.257	0.256	0.259	0.268	0.257	0.250	0.248
400	0.126	0.125	0.119	0.121	0.121	0.128	0.122	0.120	0.120
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 100



LINE 110



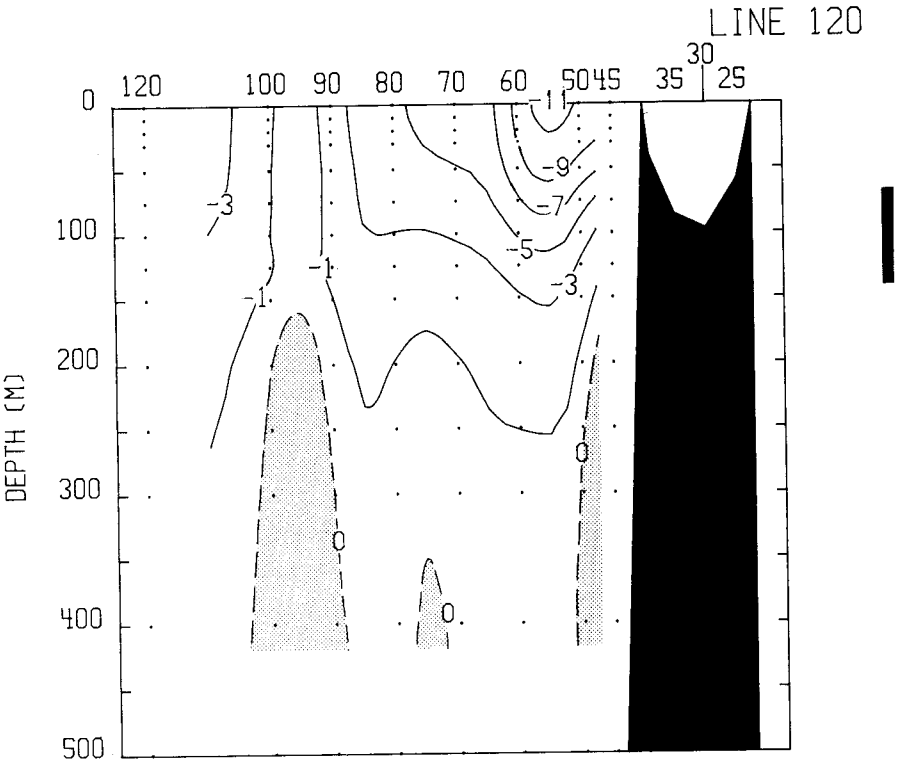
APRIL
GEOSTROPHIC FLOW (CM/S)

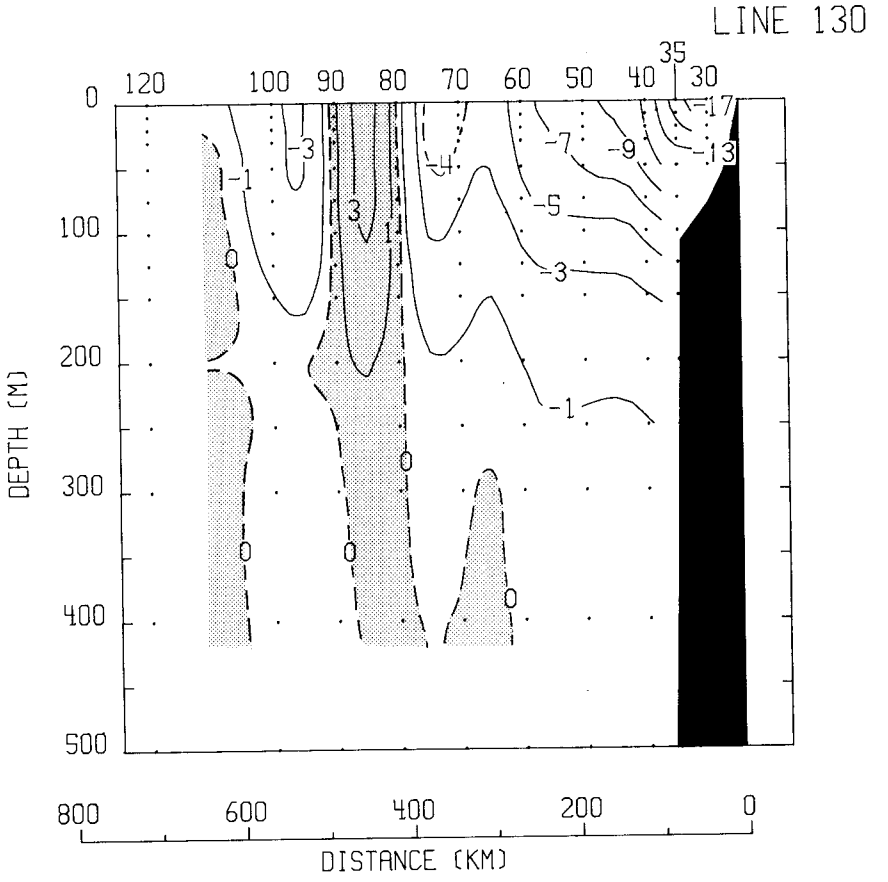
DYNAMIC HT ANOMALY (DYN. M) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045
0	1.019	0.979	0.981	0.961	0.935	0.907	0.849	0.823
10	0.985	0.945	0.946	0.927	0.901	0.873	0.817	0.792
20	0.949	0.909	0.911	0.893	0.867	0.840	0.785	0.762
30	0.915	0.876	0.877	0.859	0.834	0.807	0.754	0.732
50	0.845	0.807	0.809	0.792	0.770	0.744	0.695	0.678
75	0.761	0.726	0.727	0.711	0.692	0.671	0.631	0.621
100	0.680	0.651	0.652	0.636	0.623	0.605	0.576	0.570
125	0.609	0.584	0.582	0.571	0.561	0.548	0.527	0.524
150	0.544	0.523	0.524	0.514	0.507	0.497	0.481	0.480
200	0.433	0.419	0.423	0.416	0.414	0.407	0.398	0.399
250	0.344	0.333	0.337	0.331	0.332	0.327	0.322	0.324
300	0.265	0.257	0.260	0.257	0.257	0.254	0.251	0.253
400	0.122	0.120	0.122	0.121	0.121	0.120	0.119	0.120
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 130 APRIL

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	0.993	0.989	0.973	0.995	0.972	0.956	0.922	0.878	0.845	0.800
10	0.955	0.956	0.939	0.961	0.938	0.922	0.889	0.845	0.813	0.771
20	0.921	0.919	0.903	0.925	0.903	0.888	0.855	0.813	0.782	0.743
30	0.883	0.886	0.870	0.891	0.869	0.855	0.822	0.782	0.751	0.717
50	0.812	0.817	0.800	0.821	0.800	0.788	0.758	0.721	0.694	0.667
75	0.727	0.731	0.715	0.737	0.717	0.707	0.681	0.652	0.631	
100	0.647	0.653	0.639	0.657	0.640	0.634	0.613	0.592	0.576	
125	0.577	0.583	0.572	0.587	0.574	0.569	0.554	0.539	0.527	
150	0.516	0.522	0.514	0.526	0.516	0.513	0.502	0.491	0.483	
200	0.419	0.418	0.418	0.424	0.419	0.417	0.411	0.405	0.400	
250	0.333	0.338	0.335	0.338	0.335	0.335	0.331	0.327	0.325	
300	0.259	0.262	0.258	0.261	0.259	0.260	0.257	0.254		
400	0.121	0.124	0.121	0.122	0.122	0.122	0.121	0.120		
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





APRIL
GEOSTROPHIC FLOW (CM/S)

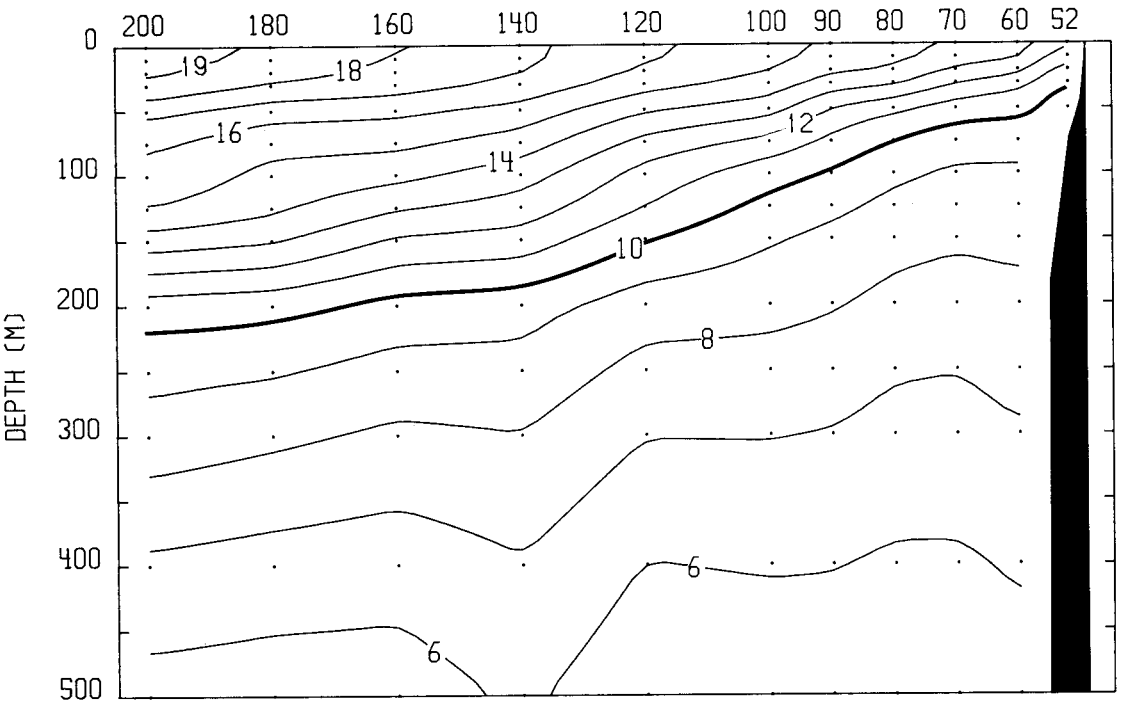
TEMPERATURE (DEG. C) LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	19.64	18.85	18.22	17.29	16.22	15.48	14.91	14.52	13.92	13.62	12.41
10	19.34	18.80	17.86	17.26	16.18	15.41	14.67	14.34	13.66	13.28	11.47
20	19.16	18.45	17.75	17.09	15.88	15.05	14.24	13.94	12.90	12.44	10.48
30	18.92	17.93	17.56	16.75	15.47	14.63	13.64	13.30	12.07	11.40	10.00
50	17.24	16.39	16.19	15.65	14.15	13.48	11.92	11.20	10.47	10.22	9.40
75	16.11	15.29	15.25	14.55	12.67	11.67	10.72	9.91	9.47	9.35	
100	15.76	14.69	14.31	13.45	11.62	10.40	9.90	9.25	8.83	8.86	
125	15.04	14.25	13.14	12.58	11.03	9.68	9.28	8.72	8.45	8.51	
150	13.49	13.12	11.84	11.61	10.04	9.11	8.74	8.30	8.14	8.25	
200	10.48	10.31	9.62	9.43	8.45	8.29	8.09	7.74	7.56	7.73	
250	9.28	9.08	8.61	8.62	7.69	7.66	7.51	7.11	7.03	7.33	
300	8.55	8.20	7.80	7.98	7.03	7.04	6.94	6.65	6.62	6.92	
400	6.80	6.56	6.39	6.92	5.96	6.08	6.04	5.86	5.86	6.12	
500	5.61	5.50	5.53	6.17	5.28	5.36	5.42	5.27	5.30	5.59	

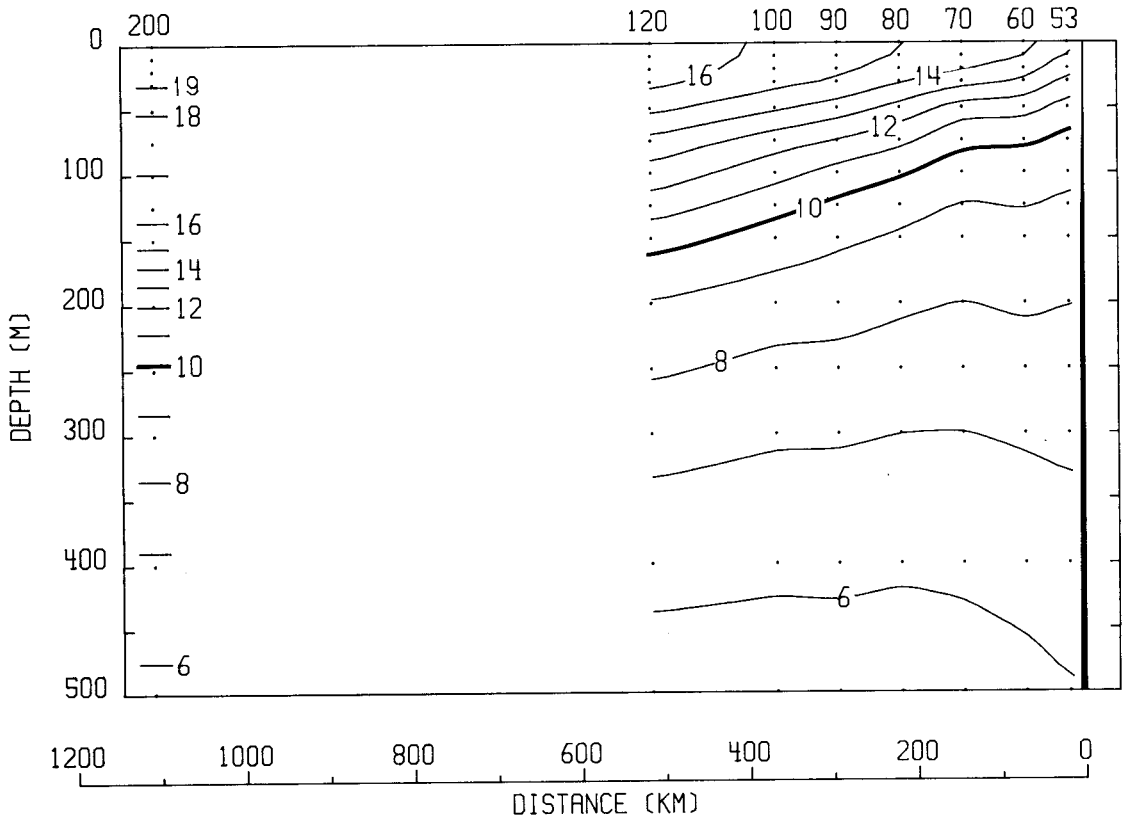
TEMPERATURE (DEG. C) LINE 070 JULY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	19.70	16.61	15.84	15.63	15.05	14.65	14.52	13.19
10	19.61	16.62	15.81	15.42	14.99	14.56	14.18	12.85
20	19.42	16.52	15.62	15.26	14.70	14.20	13.55	12.19
30	19.10	16.33	15.37	15.00	14.14	13.47	12.96	11.62
50	18.05	15.32	14.21	13.56	12.69	11.46	11.44	10.46
75	17.24	13.70	12.43	11.92	11.28	10.16	10.15	9.68
100	17.02	12.65	11.38	10.64	10.09	9.37	9.45	9.16
125	16.45	11.54	10.31	9.75	9.31	8.92	9.05	8.85
150	15.45	10.39	9.55	9.15	8.90	8.60	8.73	8.53
200	11.96	8.91	8.45	8.41	8.15	7.97	8.16	7.99
250	9.75	8.14	7.75	7.72	7.55	7.40	7.57	7.59
300	8.63	7.38	7.13	7.12	6.99	6.98	7.11	7.22
400	6.82	6.27	6.16	6.19	6.11	6.18	6.37	6.54
500	5.74	5.54	5.54	5.52	5.49	5.54	5.70	5.97

LINE 60



LINE 70



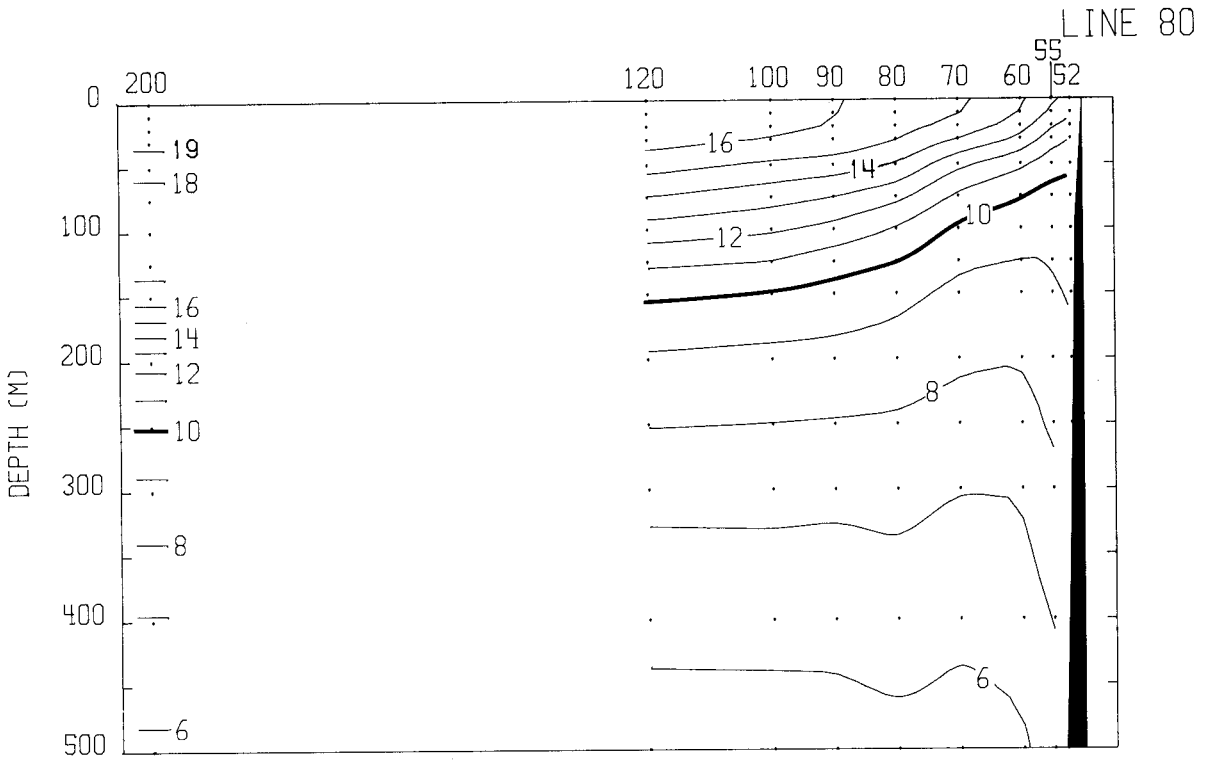
JULY
TEMPERATURE

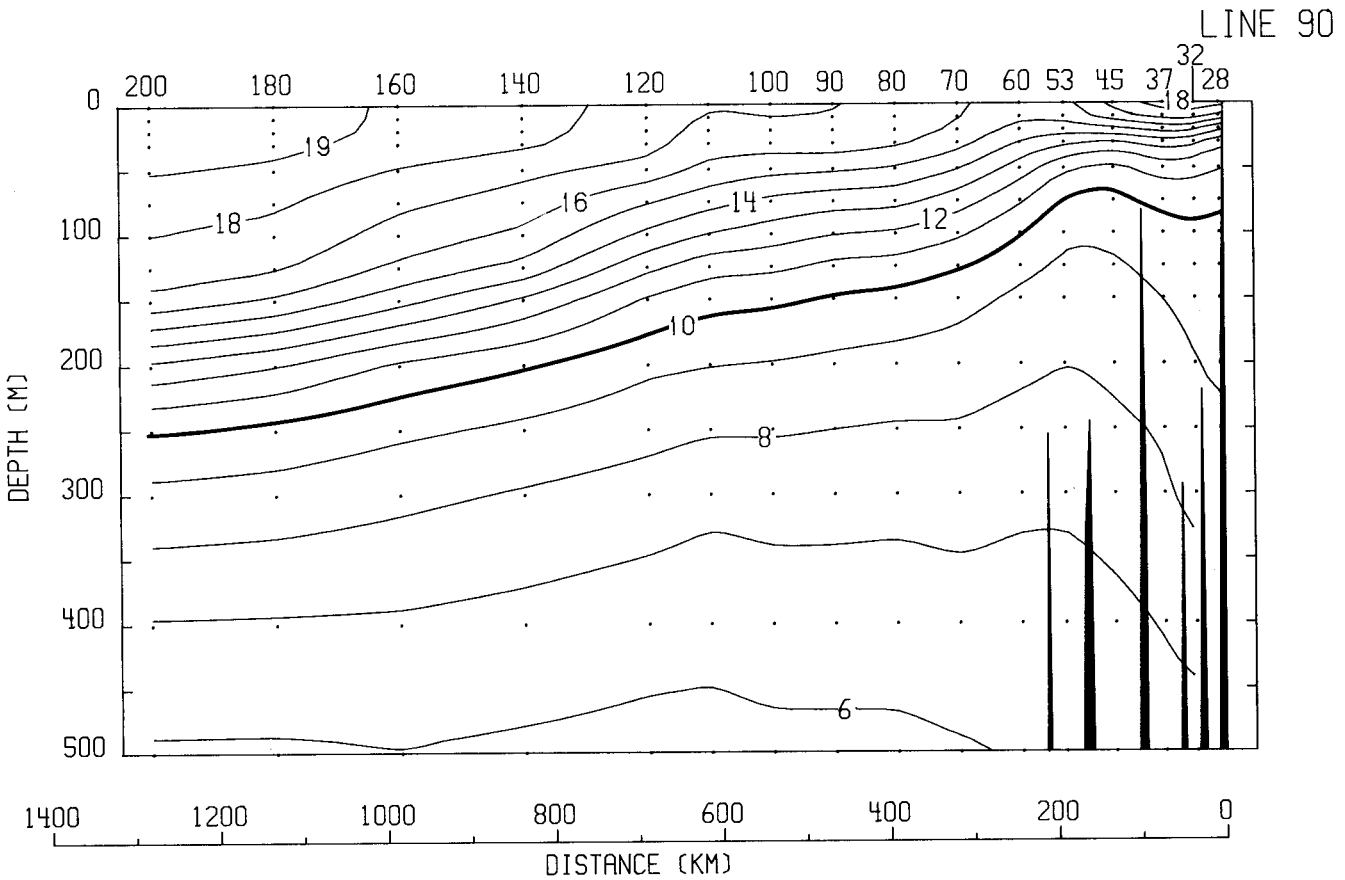
TEMPERATURE (DEG. C) LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	19.84	16.71	16.37	16.09	15.70	15.24	14.27	13.32	12.76
10	19.76	16.68	16.36	16.06	15.61	15.17	14.15	13.03	12.29
20	19.55	16.65	16.28	15.97	15.43	14.77	13.58	12.13	11.48
30	19.32	16.45	16.03	15.79	15.13	14.08	12.94	11.53	10.82
50	18.24	15.42	14.79	14.60	14.06	12.20	11.22	10.35	10.18
75	17.65	13.98	13.42	12.98	12.32	10.74	10.01	9.56	9.75
100	17.43	12.60	12.16	11.72	10.90	9.76	9.41	9.19	9.48
125	17.35	11.19	10.98	10.41	10.02	9.15	8.97	8.99	9.35
150	16.60	10.12	9.92	9.61	9.29	8.75	8.59	8.84	9.18
200	12.33	8.84	8.71	8.68	8.55	8.15	8.05	8.57	8.85
250	10.00	8.04	7.99	7.94	7.88	7.60	7.53	8.25	8.55
300	8.73	7.30	7.32	7.25	7.33	7.03	7.06	7.93	
400	6.91	6.24	6.28	6.26	6.47	6.16	6.38	7.20	
500	5.80	5.60	5.58	5.63	5.72	5.65	5.84	6.41	

TEMPERATURE (DEG. C) LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	20.00	19.43	18.88	18.57	17.59	17.17	17.18	17.11	16.72	16.21	15.47	15.75	17.47	18.74	19.30	19.15
10	19.73	19.42	18.86	18.39	17.50	16.86	17.01	16.96	16.67	16.09	15.27	15.53	17.07	17.84	18.06	16.66
20	19.71	19.42	18.81	18.34	17.46	16.72	16.81	16.81	16.56	15.88	14.72	14.50	14.66	15.25	15.48	13.57
30	19.70	19.33	18.70	18.26	17.39	16.45	16.45	16.62	16.28	15.47	13.89	13.20	12.59	13.41	13.22	11.96
50	19.10	18.75	17.90	17.25	16.63	15.70	15.32	15.17	14.88	14.06	12.54	11.03	10.54	11.46	11.46	10.88
75	18.33	18.11	17.18	16.57	15.04	14.35	13.71	13.39	13.34	12.48	11.13	9.69	9.63	10.24	10.34	10.10
100	18.02	17.75	16.60	15.78	13.78	12.96	12.51	12.03	11.85	11.21	10.01	9.11	9.17	9.61	9.83	9.73
125	17.69	17.20	15.80	14.75	12.23	11.32	11.22	10.69	10.60	10.07	9.28	8.80	8.88	9.25	9.45	9.54
150	16.67	15.85	14.35	12.78	10.80	10.29	10.16	9.86	9.72	9.32	8.79	8.47	8.63	8.98	9.25	9.41
200	12.73	11.96	10.70	10.05	9.19	9.02	8.93	8.79	8.63	8.53	8.23	7.99	8.19	8.55	8.95	9.19
250	10.00	9.68	9.17	8.76	8.31	8.09	8.10	7.99	7.91	7.93	7.66	7.56	7.82	8.09	8.66	8.90
300	8.71	8.55	8.22	7.89	7.56	7.28	7.38	7.37	7.32	7.41	7.20	7.17	7.42	7.75	8.35	
400	6.91	6.89	6.85	6.65	6.38	6.27	6.45	6.44	6.41	6.56	6.53	6.57	6.74	7.05	7.39	
500	5.88	5.86	5.96	5.82	5.69	5.70	5.76	5.78	5.79	5.93	6.04	6.05	6.15	6.37	6.57	





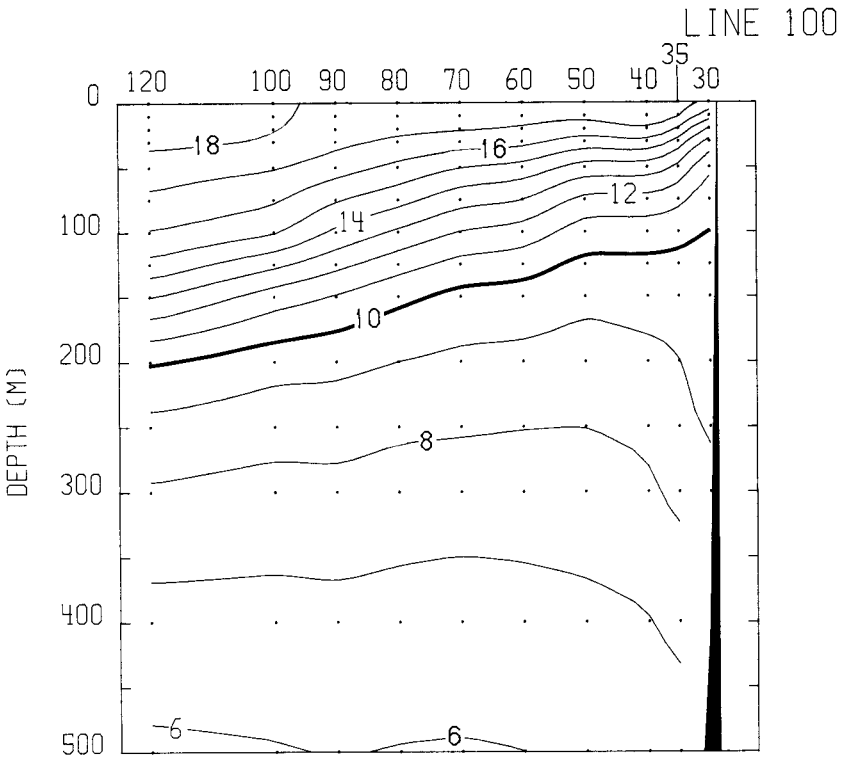
JULY
TEMPERATURE

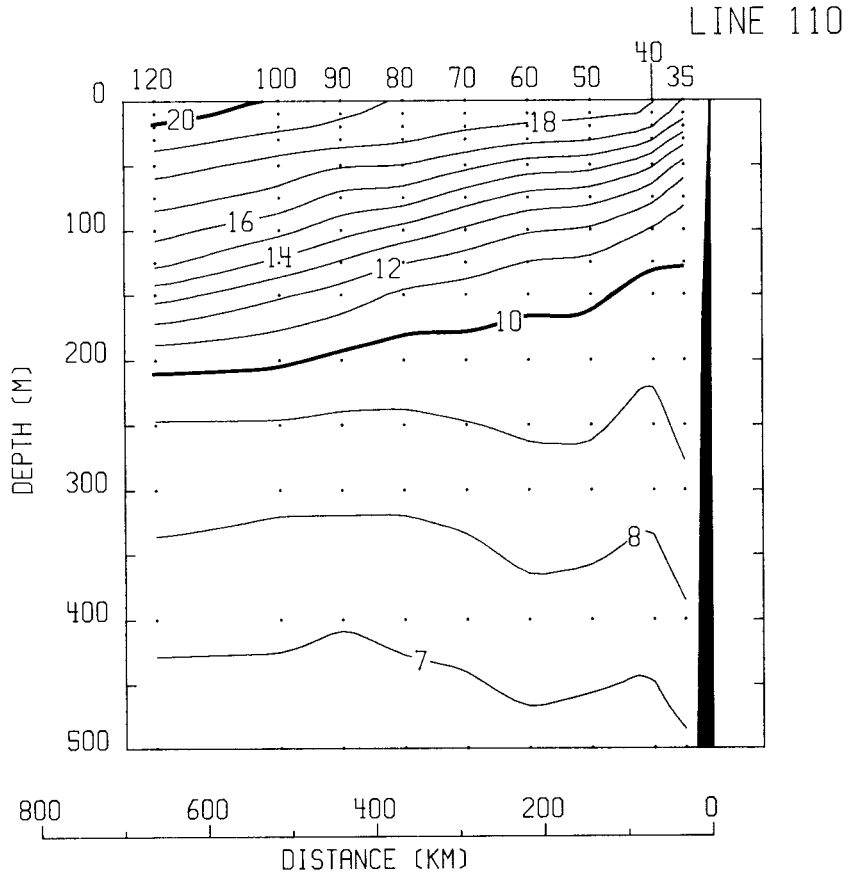
TEMPERATURE (DEG. C) LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	19.01	18.25	17.75	17.76	17.67	17.54	17.55	18.00	18.03	17.15
10	19.05	18.14	17.67	17.50	17.46	17.34	17.35	17.88	17.53	15.03
20	18.74	18.09	17.54	17.27	17.13	16.96	16.55	17.09	16.20	13.33
30	18.26	17.96	17.26	16.82	16.56	16.41	15.49	15.88	14.66	12.19
50	17.45	17.07	16.47	15.74	14.96	14.65	13.49	13.50	12.91	10.89
75	16.86	16.15	15.04	14.37	13.32	13.04	11.59	11.68	11.34	10.19
100	15.99	15.22	13.79	12.79	11.89	11.57	10.45	10.45	10.27	9.89
125	14.76	13.18	12.24	11.37	10.62	10.45	9.71	9.79	9.76	9.77
150	13.04	11.42	10.86	10.18	9.67	9.60	9.19	9.37	9.38	9.65
200	10.03	9.32	9.25	8.97	8.77	8.70	8.57	8.74	8.94	9.39
250	8.70	8.39	8.42	8.17	8.10	8.02	7.99	8.22	8.75	9.14
300	7.89	7.63	7.69	7.51	7.46	7.46	7.56	7.76	8.33	8.88
400	6.61	6.63	6.69	6.60	6.52	6.62	6.71	6.92	7.31	
500	5.83	5.94	6.01	5.95	5.93	5.97	6.09	6.23	6.55	

TEMPERATURE (DEG. C) LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	20.38	20.01	19.30	18.98	18.75	18.57	18.38	18.31	16.93
10	20.33	19.81	19.13	18.83	18.51	18.39	18.28	18.18	16.27
20	19.99	19.16	18.83	18.51	18.17	17.90	17.81	17.35	15.14
30	19.49	18.61	18.49	18.21	17.72	17.35	17.19	16.40	14.06
50	18.37	17.61	17.01	17.01	16.31	15.49	15.39	14.26	12.26
75	17.49	16.68	15.67	15.53	14.42	13.57	13.39	12.34	10.96
100	16.32	15.30	14.36	13.63	12.79	12.05	11.87	10.86	10.28
125	15.44	13.75	12.86	11.96	11.53	10.86	10.80	10.04	10.02
150	13.40	12.05	11.52	10.71	10.52	10.18	10.14	9.58	9.81
200	10.26	10.10	9.74	9.47	9.60	9.59	9.75	9.09	9.64
250	8.88	8.89	8.79	8.84	8.96	9.13	9.15	8.61	9.37
300	8.43	8.18	8.23	8.18	8.35	8.68	8.67	8.20	8.92
400	7.24	7.26	7.04	7.21	7.29	7.68	7.55	7.30	7.97
500	6.39	6.26	6.29	6.46	6.54	6.69	6.58	6.51	6.92





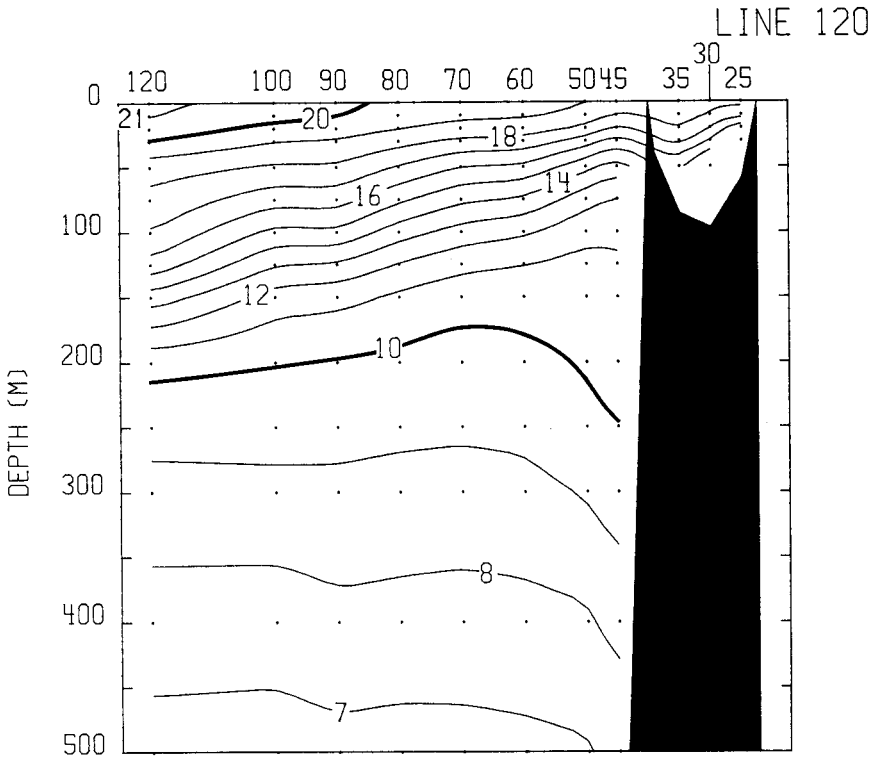
JULY
TEMPERATURE

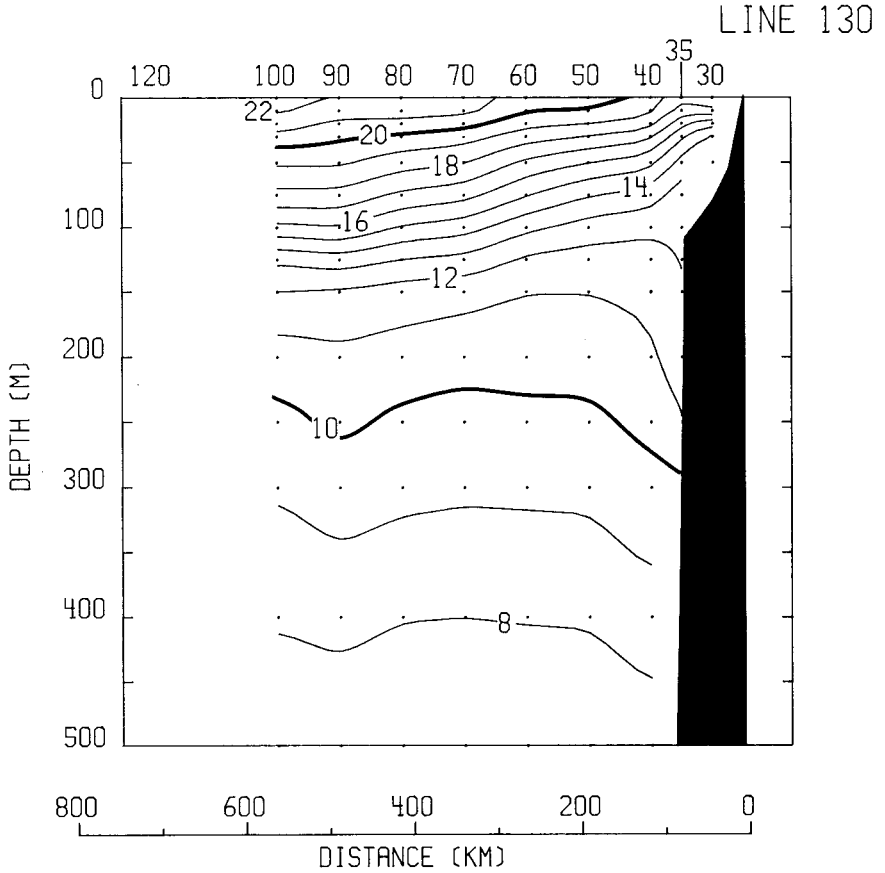
TEMPERATURE (DEG. C) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	21.24	20.69	20.41	19.79	19.74	19.52	19.19	18.40	18.64	18.32	18.45
10	21.15	20.50	20.09	19.69	19.51	19.22	18.90	18.10	18.53	18.10	17.91
20	20.66	19.66	19.46	19.01	18.68	18.59	17.94	16.66	18.18	17.26	14.84
30	19.96	18.99	18.89	18.37	17.76	17.69	16.50	15.42	17.72	15.95	12.81
50	18.35	17.83	17.87	16.88	15.92	15.80	14.30	13.34	15.27	12.71	
75	17.80	16.37	16.45	15.18	14.18	13.85	12.34	11.76			
100	16.99	14.65	14.83	13.42	12.56	12.15	11.26	11.13			
125	15.71	13.00	12.82	11.84	11.24	10.96	10.67	10.94			
150	13.48	11.46	11.30	10.75	10.35	10.30	10.41	10.72			
200	10.28	9.99	9.90	9.73	9.52	9.75	10.08	10.45			
250	9.36	9.39	9.26	9.19	9.15	9.22	9.67	10.04			
300	8.65	8.70	8.80	8.69	8.62	8.72	9.08	9.54			
400	7.51	7.44	7.71	7.63	7.57	7.65	7.81	8.43			
500	6.61	6.57	6.69	6.61	6.66	6.75	6.89	7.24			

TEMPERATURE (DEG. C) LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	22.65	22.07	21.80	21.75	20.51	20.48	20.03	18.38	19.70
10	22.17	21.54	21.67	21.60	20.10	20.15	19.40	17.33	18.26
20	21.60	20.73	20.73	20.31	19.37	19.06	18.65	16.32	14.68
30	20.77	20.04	19.79	19.42	18.47	17.93	17.26	15.00	13.41
50	19.09	19.22	18.41	18.10	16.71	15.99	15.39	13.32	12.97
75	17.75	17.71	16.81	16.38	15.08	14.02	13.53	12.19	
100	15.76	16.03	14.87	14.44	13.21	12.52	12.22	12.13	
125	13.06	13.52	12.88	12.68	11.73	11.53	11.56	12.16	
150	11.97	11.77	11.54	11.36	10.98	11.00	11.26	11.97	
200	10.47	10.79	10.53	10.30	10.33	10.38	10.78	11.58	
250	9.67	10.23	9.76	9.65	9.78	9.77	10.27	11.06	
300	9.10	9.51	9.27	9.17	9.20	9.23	9.76		
400	8.11	8.32	8.04	8.00	8.06	8.10	8.55		
500	7.11	7.20	6.96	7.06	7.04	7.09	7.45		





JULY
TEMPERATURE

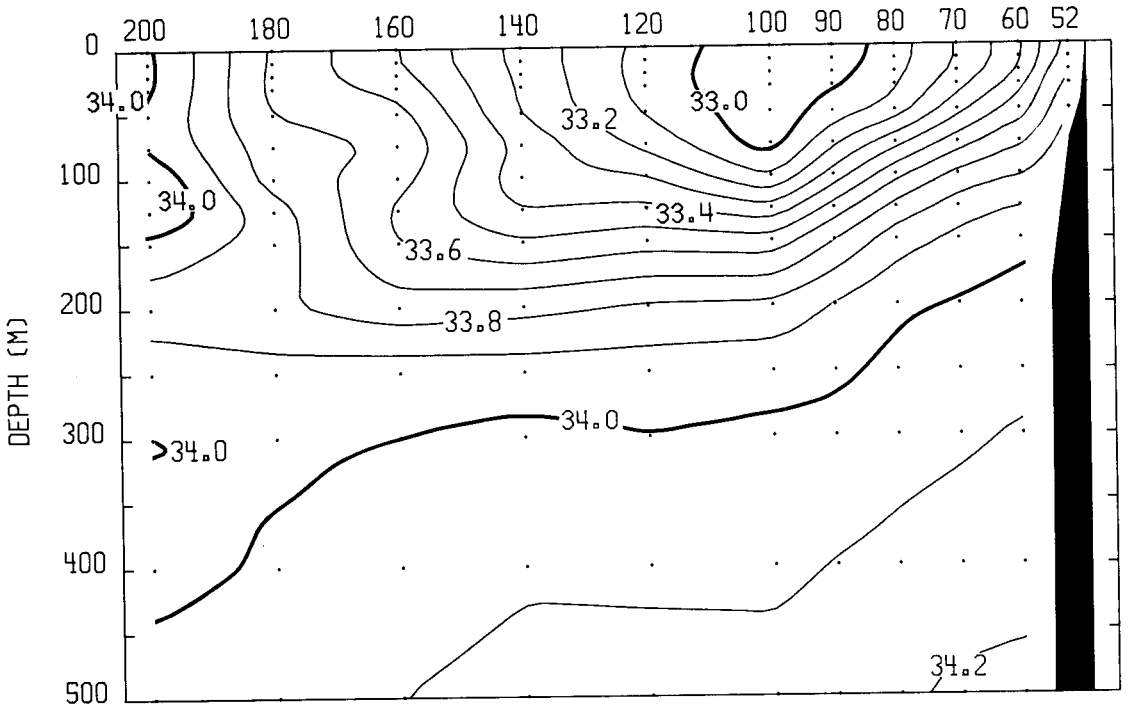
SALINITY (PPT) LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	34.02	33.69	33.51	33.26	33.08	32.92	32.93	33.05	33.21	33.37	33.64
10	34.03	33.68	33.50	33.26	33.05	32.91	32.93	33.06	33.20	33.37	33.66
20	34.03	33.67	33.54	33.28	33.06	32.90	32.96	33.07	33.21	33.39	33.71
30	34.03	33.67	33.57	33.28	33.06	32.90	32.99	33.09	33.26	33.44	33.74
50	33.99	33.70	33.64	33.29	33.09	32.93	33.04	33.13	33.36	33.56	33.79
75	33.99	33.75	33.69	33.38	33.17	32.93	33.18	33.36	33.55	33.69	
100	34.09	33.75	33.64	33.34	33.30	33.08	33.34	33.57	33.73	33.80	
125	34.11	33.85	33.57	33.40	33.43	33.32	33.54	33.73	33.85	33.91	
150	33.96	33.85	33.60	33.51	33.56	33.54	33.70	33.85	33.92	33.98	
200	33.85	33.81	33.74	33.77	33.82	33.82	33.91	33.99	34.01	34.03	
250	33.97	33.94	33.96	33.95	33.95	33.97	33.98	34.02	34.04	34.08	
300	34.00	33.99	34.00	34.03	34.00	34.02	34.03	34.06	34.08	34.11	
400	33.98	34.01	34.03	34.08	34.08	34.07	34.11	34.13	34.15	34.17	
500	34.03	34.06	34.10	34.15	34.15	34.15	34.18	34.19	34.22	34.23	

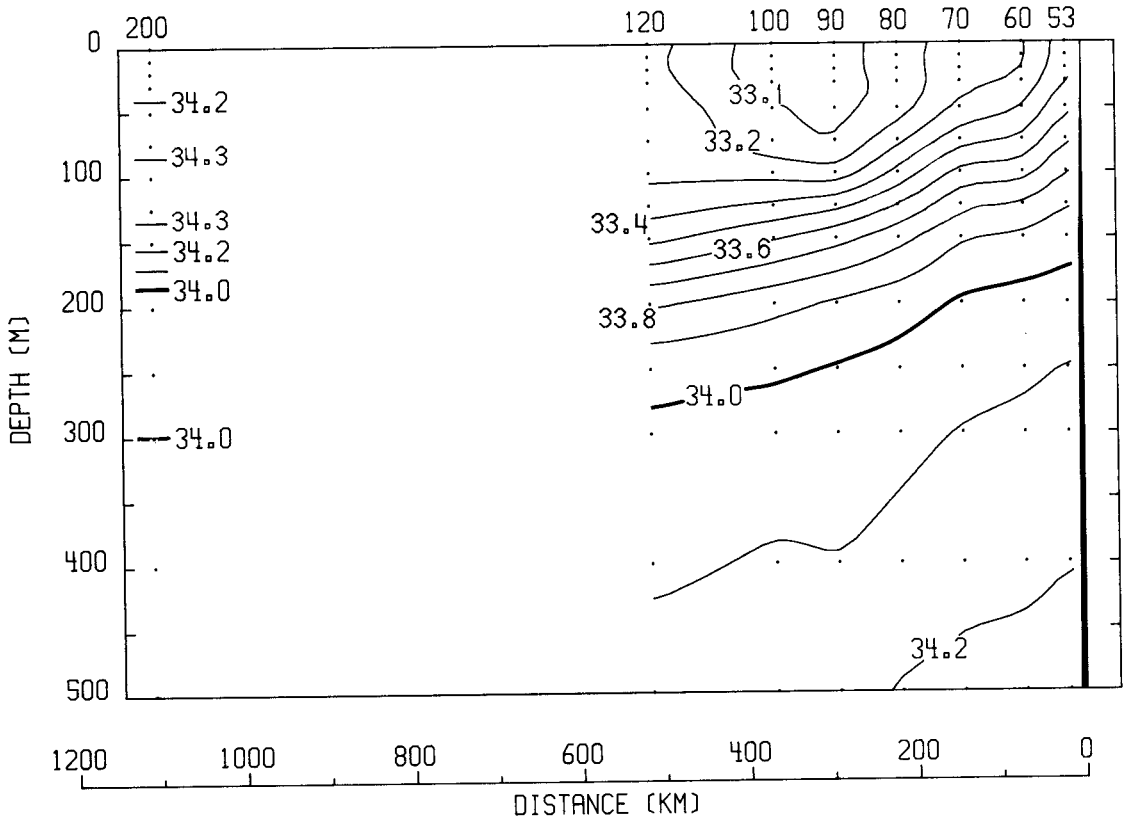
SALINITY (PPT) LINE 070 JULY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	34.13	33.25	33.04	33.05	33.16	33.24	33.28	33.47
10	34.18	33.22	33.04	33.04	33.16	33.25	33.27	33.47
20	34.18	33.23	33.03	33.06	33.16	33.26	33.28	33.50
30	34.16	33.25	33.04	33.06	33.13	33.26	33.32	33.53
50	34.23	33.27	33.12	33.07	33.14	33.32	33.39	33.60
75	34.27	33.30	33.12	33.09	33.27	33.46	33.51	33.71
100	34.34	33.27	33.27	33.22	33.42	33.64	33.65	33.82
125	34.34	33.35	33.41	33.47	33.60	33.78	33.81	33.91
150	34.24	33.47	33.59	33.66	33.77	33.90	33.92	33.97
200	33.90	33.79	33.87	33.92	33.96	34.02	34.04	34.05
250	33.96	33.97	33.99	34.01	34.03	34.06	34.08	34.11
300	34.00	34.02	34.04	34.04	34.07	34.11	34.12	34.14
400	34.00	34.08	34.11	34.10	34.13	34.17	34.18	34.20
500	34.09	34.16	34.19	34.18	34.21	34.23	34.23	34.24

LINE 60



LINE 70



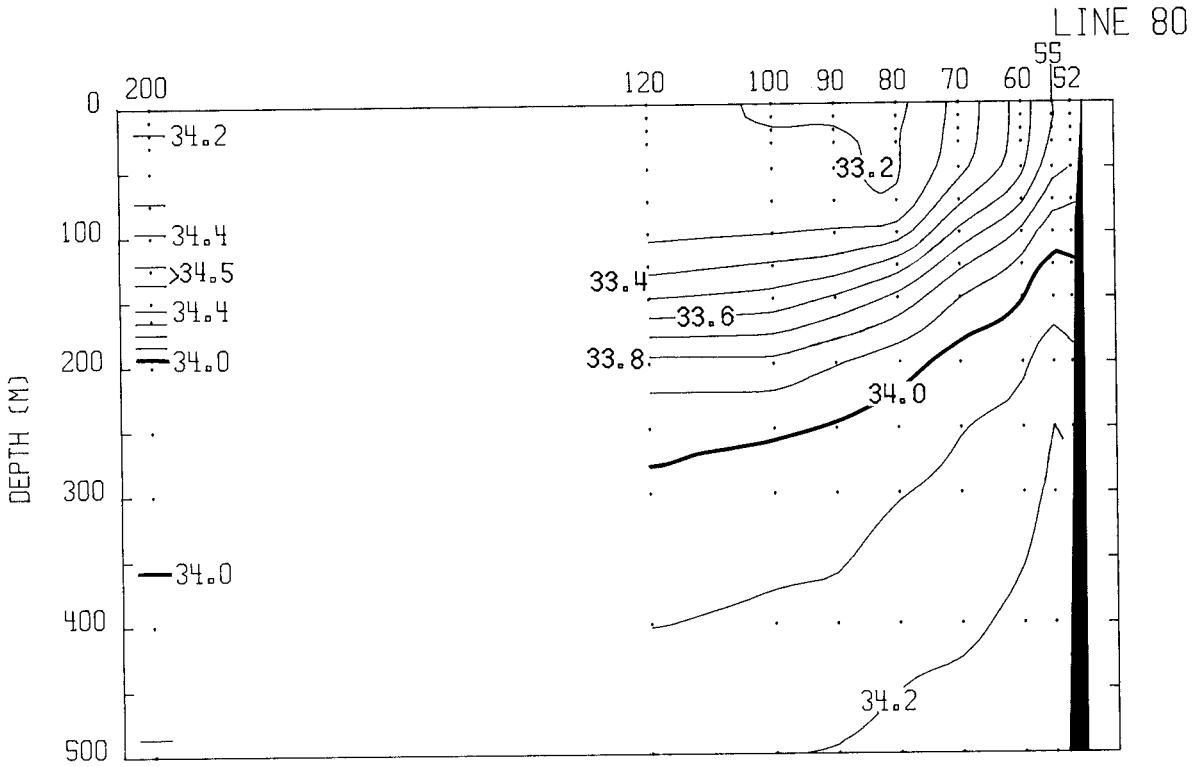
JULY
SALINITY

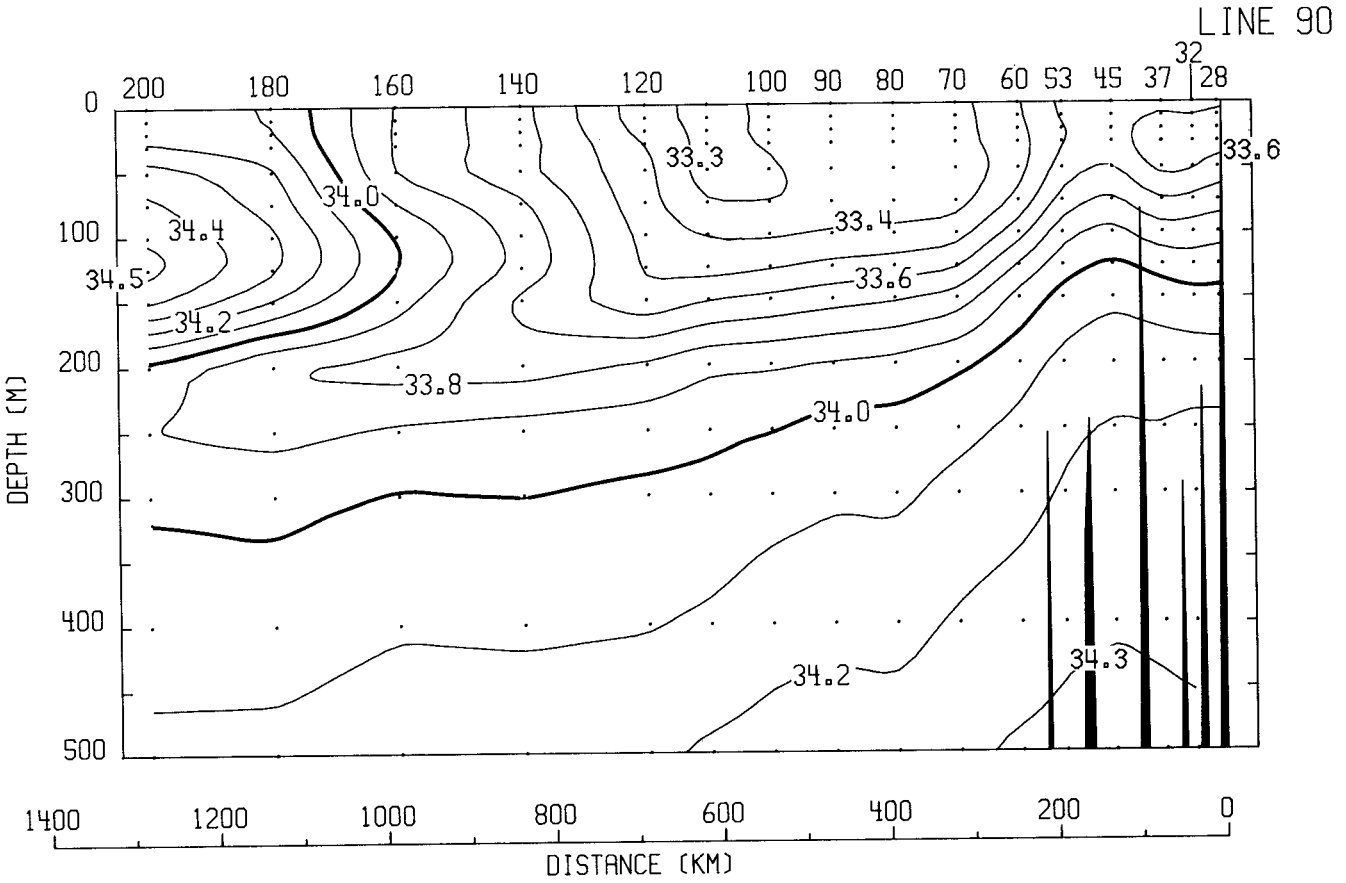
SALINITY (PPT) LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	34.16	33.23	33.19	33.19	33.16	33.33	33.53	33.72	33.75
10	34.15	33.23	33.18	33.19	33.17	33.33	33.53	33.72	33.71
20	34.20	33.23	33.21	33.20	33.18	33.34	33.53	33.73	33.72
30	34.27	33.23	33.21	33.21	33.18	33.34	33.54	33.74	33.74
50	34.22	33.25	33.22	33.22	33.17	33.36	33.55	33.79	33.79
75	34.30	33.24	33.23	33.22	33.19	33.47	33.66	33.89	33.88
100	34.42	33.28	33.29	33.31	33.32	33.63	33.81	34.00	33.94
125	34.53	33.36	33.41	33.43	33.55	33.79	33.92	34.05	33.99
150	34.47	33.50	33.53	33.62	33.73	33.91	33.99	34.10	34.04
200	33.92	33.84	33.83	33.90	33.97	34.05	34.08	34.16	34.10
250	33.92	33.97	33.99	34.01	34.05	34.10	34.13	34.20	34.14
300	33.98	34.02	34.05	34.05	34.10	34.12	34.16	34.23	
400	34.02	34.10	34.12	34.12	34.18	34.18	34.22	34.25	
500	34.11	34.19	34.20	34.20	34.23	34.25	34.28	34.28	

SALINITY (PPT) LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	34.14	34.10	33.79	33.63	33.34	33.27	33.33	33.37	33.33	33.37	33.49	33.64	33.65	33.62	33.65	33.63
10	34.13	34.10	33.79	33.63	33.33	33.26	33.31	33.36	33.32	33.36	33.48	33.64	33.66	33.60	33.60	33.57
20	34.17	34.12	33.78	33.64	33.36	33.27	33.33	33.36	33.32	33.36	33.47	33.59	33.64	33.54	33.57	33.55
30	34.20	34.14	33.78	33.65	33.40	33.26	33.31	33.37	33.33	33.37	33.45	33.61	33.64	33.52	33.54	33.56
50	34.37	34.23	33.78	33.62	33.43	33.24	33.28	33.34	33.35	33.33	33.45	33.65	33.72	33.56	33.57	33.65
75	34.42	34.26	33.90	33.73	33.43	33.30	33.29	33.33	33.34	33.35	33.52	33.75	33.83	33.70	33.72	33.77
100	34.49	34.33	33.99	33.76	33.47	33.39	33.39	33.41	33.42	33.45	33.65	33.88	33.94	33.83	33.84	33.86
125	34.55	34.33	34.01	33.78	33.48	33.45	33.48	33.52	33.54	33.57	33.81	33.97	34.02	33.96	33.93	33.96
150	34.43	34.20	33.94	33.66	33.53	33.60	33.63	33.66	33.69	33.74	33.94	34.05	34.08	34.05	34.03	34.03
200	33.95	33.79	33.76	33.75	33.82	33.88	33.89	33.91	33.93	33.98	34.06	34.13	34.16	34.16	34.15	34.14
250	33.90	33.87	33.92	33.94	33.96	33.98	34.00	34.03	34.04	34.07	34.12	34.18	34.21	34.20	34.22	34.22
300	33.99	33.98	34.01	34.00	34.02	34.02	34.06	34.09	34.08	34.13	34.17	34.22	34.24	34.24	34.26	
400	34.04	34.05	34.09	34.08	34.09	34.12	34.17	34.18	34.17	34.21	34.25	34.29	34.30	34.29	34.28	
500	34.13	34.13	34.17	34.17	34.19	34.22	34.24	34.25	34.25	34.29	34.31	34.32	34.32	34.32	34.31	





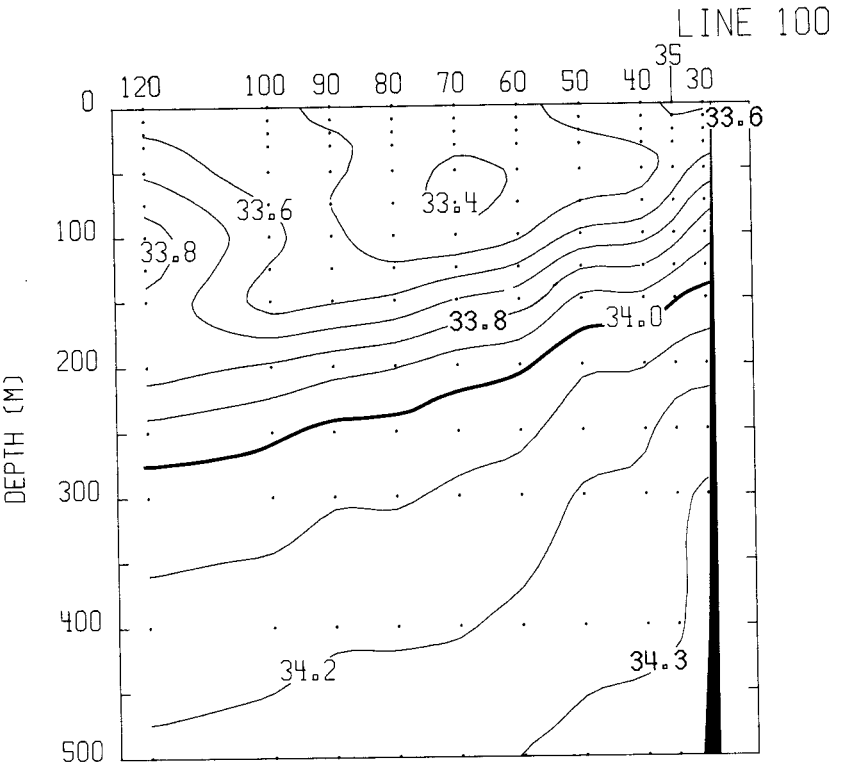
JULY
SALINITY

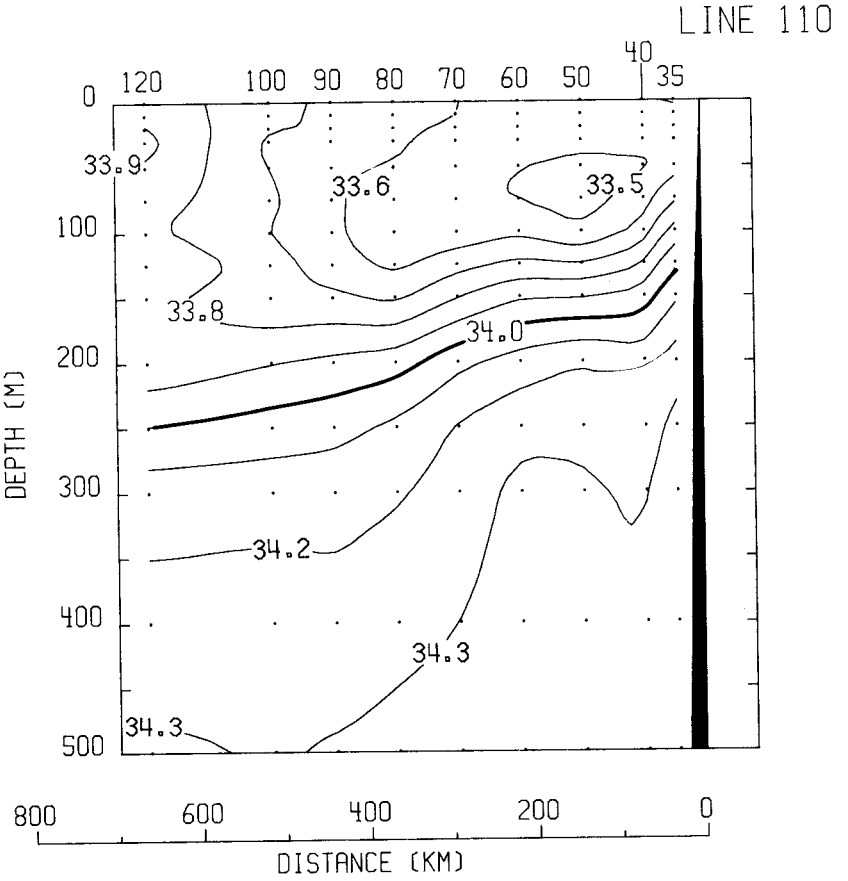
SALINITY (PPT) LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	33.61	33.52	33.48	33.46	33.45	33.48	33.55	33.57	33.63	33.63
10	33.57	33.52	33.48	33.47	33.46	33.46	33.54	33.56	33.62	33.57
20	33.60	33.53	33.51	33.48	33.44	33.45	33.50	33.54	33.58	33.55
30	33.63	33.53	33.51	33.49	33.42	33.44	33.46	33.50	33.52	33.57
50	33.69	33.52	33.52	33.46	33.36	33.40	33.45	33.45	33.52	33.65
75	33.79	33.60	33.49	33.44	33.36	33.42	33.49	33.51	33.61	33.78
100	33.86	33.64	33.52	33.43	33.41	33.46	33.63	33.65	33.74	33.88
125	33.85	33.58	33.54	33.51	33.55	33.61	33.80	33.79	33.88	33.96
150	33.78	33.54	33.58	33.62	33.71	33.75	33.94	33.91	34.00	34.04
200	33.75	33.82	33.87	33.90	33.96	33.98	34.09	34.09	34.15	34.17
250	33.94	33.99	34.03	34.03	34.07	34.07	34.15	34.17	34.26	34.26
300	34.05	34.05	34.09	34.09	34.12	34.14	34.22	34.22	34.29	34.32
400	34.13	34.16	34.18	34.18	34.19	34.22	34.27	34.28	34.30	
500	34.22	34.24	34.27	34.27	34.27	34.30	34.33	34.33	34.33	

SALINITY (PPT) LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	33.86	33.74	33.68	33.63	33.60	33.58	33.55	33.59	33.61
10	33.87	33.73	33.67	33.63	33.61	33.57	33.55	33.60	33.59
20	33.92	33.71	33.70	33.60	33.59	33.58	33.54	33.56	33.58
30	33.94	33.67	33.71	33.61	33.58	33.55	33.53	33.52	33.56
50	33.90	33.70	33.60	33.59	33.55	33.50	33.47	33.49	33.57
75	33.84	33.73	33.61	33.55	33.52	33.49	33.46	33.53	33.71
100	33.81	33.70	33.62	33.51	33.53	33.58	33.50	33.63	33.87
125	33.93	33.75	33.65	33.57	33.66	33.72	33.70	33.79	34.02
150	33.82	33.72	33.72	33.67	33.80	33.89	33.89	33.94	34.11
200	33.83	33.90	33.93	33.96	34.08	34.15	34.20	34.15	34.27
250	34.00	34.04	34.07	34.12	34.21	34.27	34.28	34.23	34.35
300	34.16	34.17	34.16	34.19	34.25	34.33	34.31	34.28	34.37
400	34.24	34.25	34.24	34.27	34.30	34.36	34.32	34.32	34.38
500	34.32	34.29	34.31	34.33	34.35	34.36	34.34	34.36	34.37





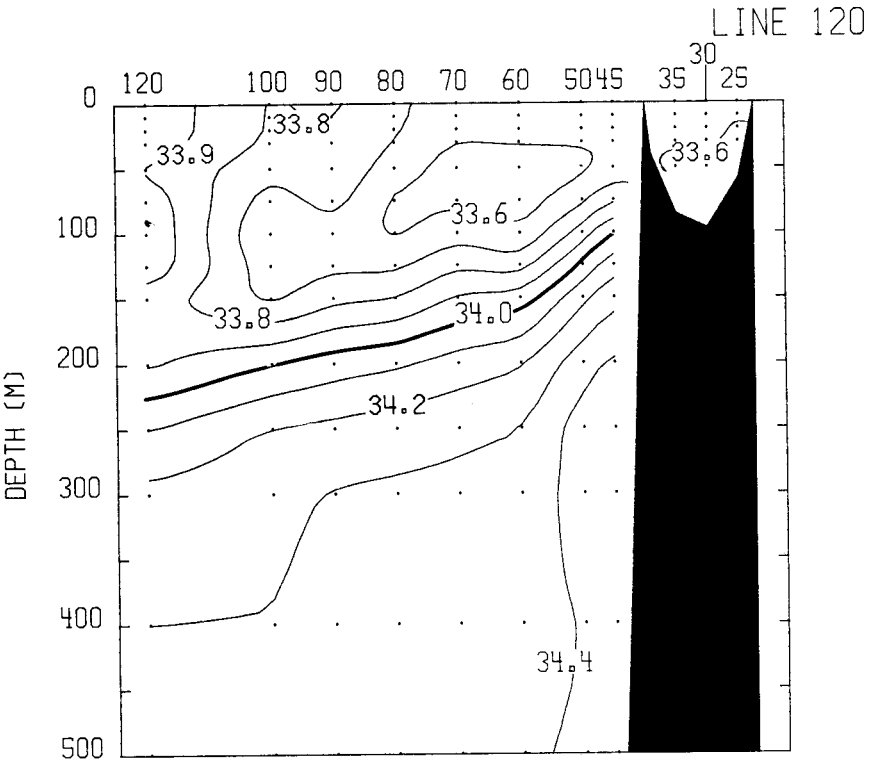
JULY
SALINITY

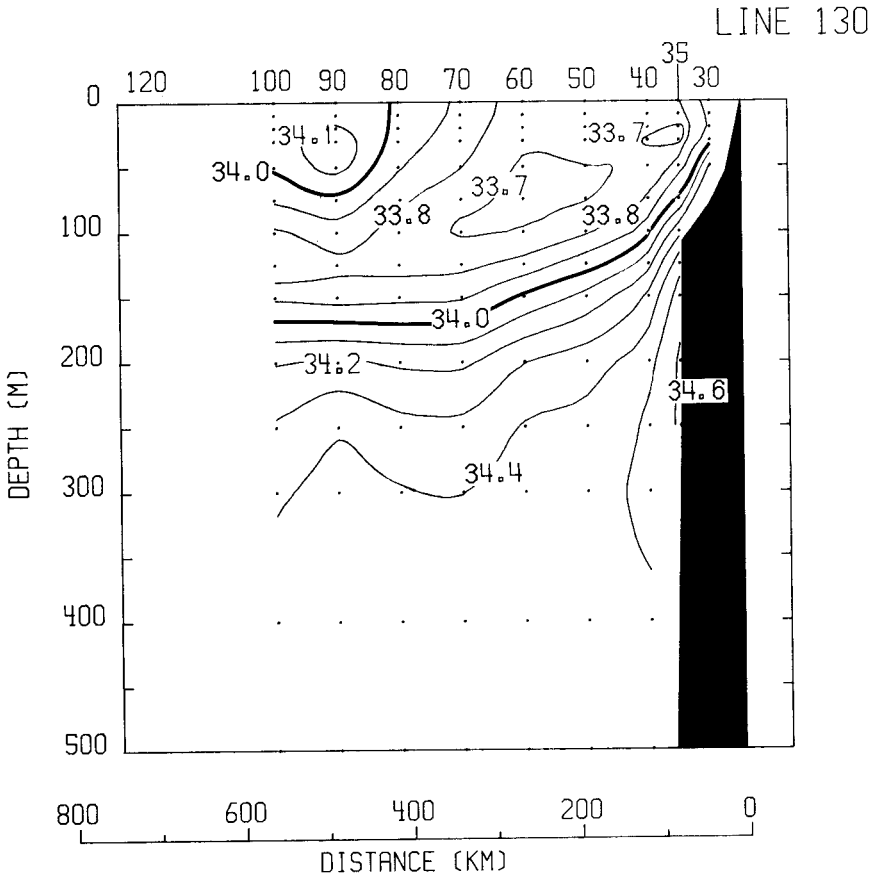
SALINITY (PPT) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	33.98	33.79	33.83	33.70	33.66	33.68	33.67	33.71	33.61	33.66	33.69
10	33.97	33.79	33.80	33.72	33.65	33.66	33.67	33.71	33.62	33.64	33.66
20	33.98	33.79	33.79	33.71	33.63	33.64	33.64	33.63	33.62	33.64	33.58
30	33.96	33.78	33.80	33.70	33.59	33.61	33.61	33.61	33.62	33.63	33.56
50	33.89	33.73	33.79	33.65	33.55	33.54	33.57	33.63	33.58	33.53	
75	33.97	33.65	33.74	33.57	33.57	33.54	33.66	33.80			
100	33.99	33.59	33.66	33.58	33.66	33.60	33.84	34.02			
125	33.98	33.64	33.67	33.68	33.78	33.75	34.01	34.18			
150	33.84	33.67	33.77	33.80	33.92	33.94	34.18	34.28			
200	33.88	34.00	34.05	34.09	34.15	34.19	34.36	34.43			
250	34.10	34.21	34.23	34.25	34.28	34.30	34.45	34.48			
300	34.23	34.27	34.31	34.32	34.33	34.34	34.45	34.48			
400	34.30	34.30	34.35	34.36	34.36	34.38	34.40	34.45			
500	34.35	34.35	34.37	34.37	34.39	34.39	34.41	34.41			

SALINITY (PPT) LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	34.10	34.06	33.99	33.88	33.75	33.75	33.75	33.79	33.97
10	34.05	34.05	33.99	33.88	33.74	33.76	33.74	33.74	33.97
20	34.05	34.13	33.98	33.85	33.73	33.76	33.74	33.67	33.93
30	34.05	34.19	33.95	33.84	33.71	33.73	33.70	33.66	34.01
50	34.00	34.17	33.90	33.81	33.68	33.70	33.71	33.81	34.23
75	33.91	33.98	33.81	33.73	33.67	33.69	33.77	34.06	
100	33.77	33.87	33.75	33.67	33.69	33.77	33.93	34.34	
125	33.69	33.77	33.75	33.77	33.83	33.96	34.13	34.54	
150	33.89	33.85	33.87	33.88	34.02	34.13	34.30	34.60	
200	34.20	34.24	34.19	34.18	34.31	34.36	34.46	34.65	
250	34.31	34.40	34.33	34.32	34.42	34.43	34.52	34.64	
300	34.39	34.45	34.41	34.40	34.45	34.45	34.53		
400	34.44	34.44	34.41	34.41	34.44	34.45	34.49		
500	34.45	34.42	34.40	34.42	34.44	34.44	34.46		





JULY
SALINITY

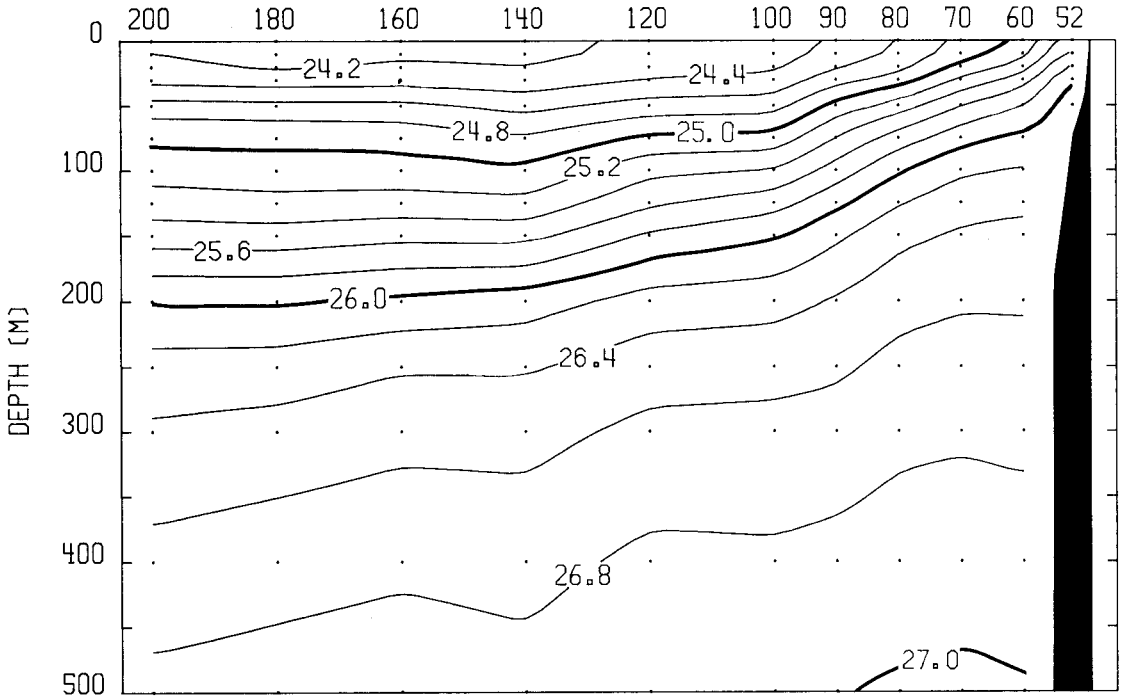
SIGMA-T LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	24.13	24.08	24.10	24.14	24.25	24.29	24.41	24.59	24.84	25.02	25.45
10	24.22	24.09	24.18	24.15	24.23	24.29	24.46	24.64	24.88	25.09	25.66
20	24.26	24.17	24.23	24.20	24.31	24.36	24.57	24.72	25.04	25.27	25.89
30	24.32	24.29	24.30	24.28	24.40	24.45	24.71	24.86	25.24	25.51	26.00
50	24.70	24.68	24.68	24.53	24.69	24.71	25.08	25.29	25.61	25.81	26.13
75	24.97	24.96	24.93	24.83	25.04	25.06	25.41	25.70	25.93	26.06	
100	25.12	25.09	25.09	25.03	25.35	25.41	25.68	25.98	26.17	26.22	
125	25.29	25.26	25.28	25.25	25.56	25.71	25.95	26.19	26.32	26.36	
150	25.51	25.49	25.55	25.53	25.84	25.98	26.16	26.35	26.43	26.46	
200	25.99	25.99	26.05	26.11	26.30	26.33	26.42	26.54	26.58	26.58	
250	26.29	26.29	26.39	26.38	26.52	26.53	26.57	26.66	26.68	26.67	
300	26.43	26.47	26.54	26.53	26.65	26.66	26.68	26.75	26.77	26.75	
400	26.67	26.72	26.76	26.73	26.85	26.83	26.86	26.90	26.92	26.90	
500	26.86	26.89	26.92	26.88	26.99	26.98	27.00	27.02	27.04	27.01	

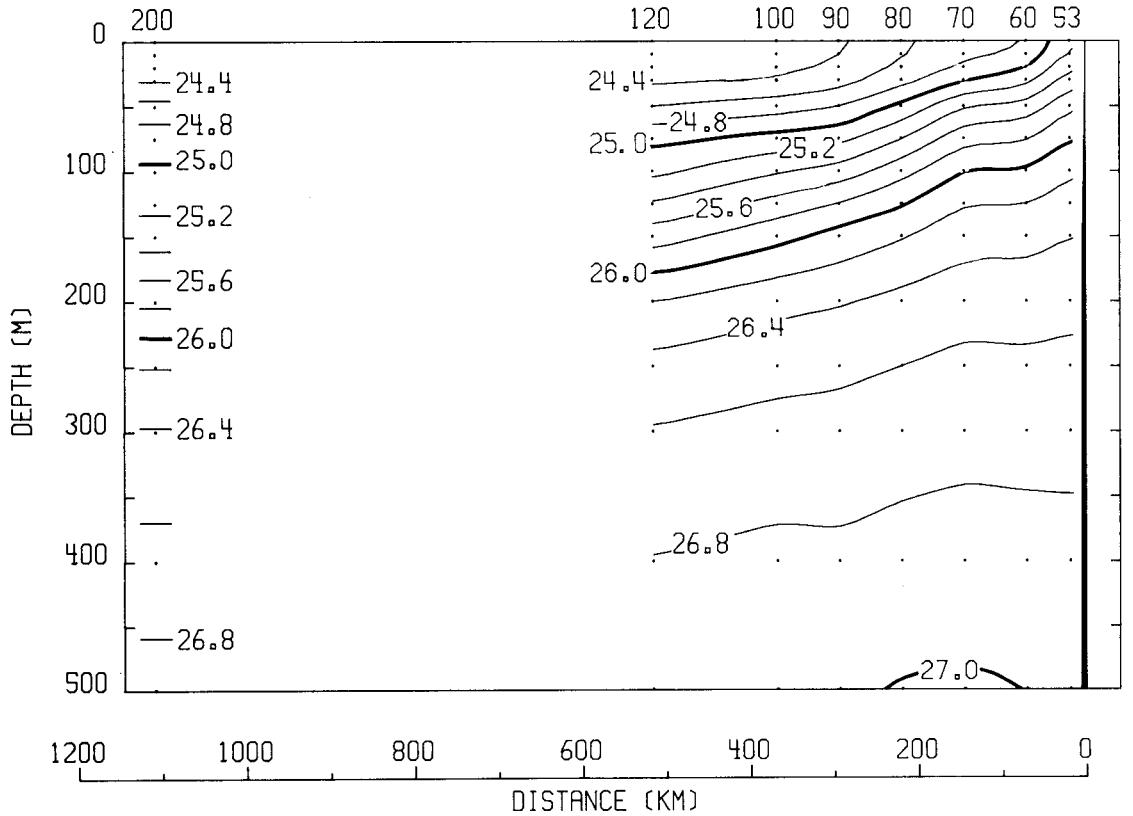
SIGMA-T LINE 070 JULY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	24.20	24.29	24.30	24.35	24.56	24.71	24.77	25.18
10	24.26	24.26	24.30	24.39	24.58	24.74	24.83	25.25
20	24.30	24.29	24.34	24.44	24.63	24.82	24.97	25.40
30	24.37	24.35	24.40	24.49	24.72	24.97	25.11	25.53
50	24.68	24.59	24.71	24.80	25.02	25.40	25.46	25.80
75	24.92	24.96	25.06	25.13	25.39	25.74	25.78	26.02
100	25.03	25.14	25.37	25.47	25.73	26.01	26.01	26.19
125	25.15	25.41	25.67	25.82	25.99	26.19	26.20	26.30
150	25.30	25.70	25.95	26.07	26.19	26.34	26.33	26.41
200	25.76	26.21	26.34	26.39	26.46	26.53	26.51	26.55
250	26.20	26.46	26.54	26.56	26.60	26.65	26.64	26.65
300	26.42	26.61	26.67	26.67	26.71	26.74	26.73	26.73
400	26.68	26.81	26.86	26.84	26.88	26.89	26.88	26.87
500	26.88	26.97	26.99	26.98	27.01	27.02	27.00	26.98

LINE 60



LINE 70



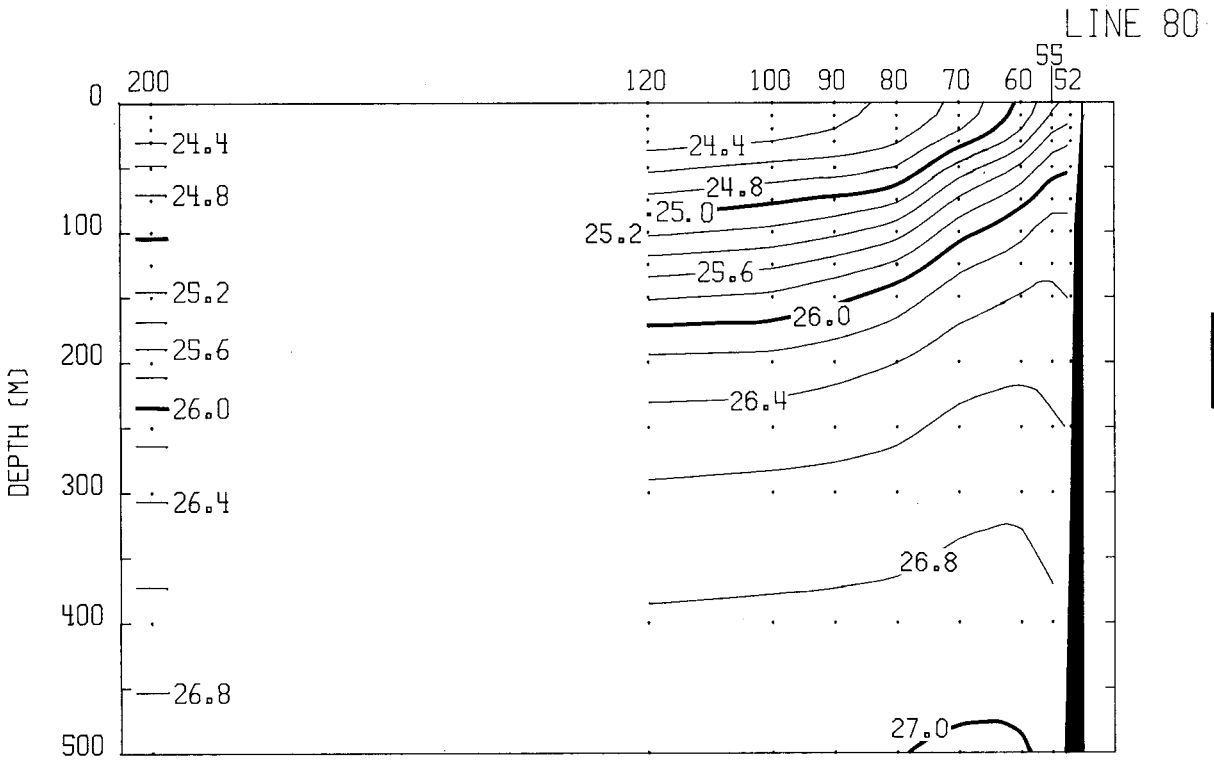
JULY
SIGMA-T

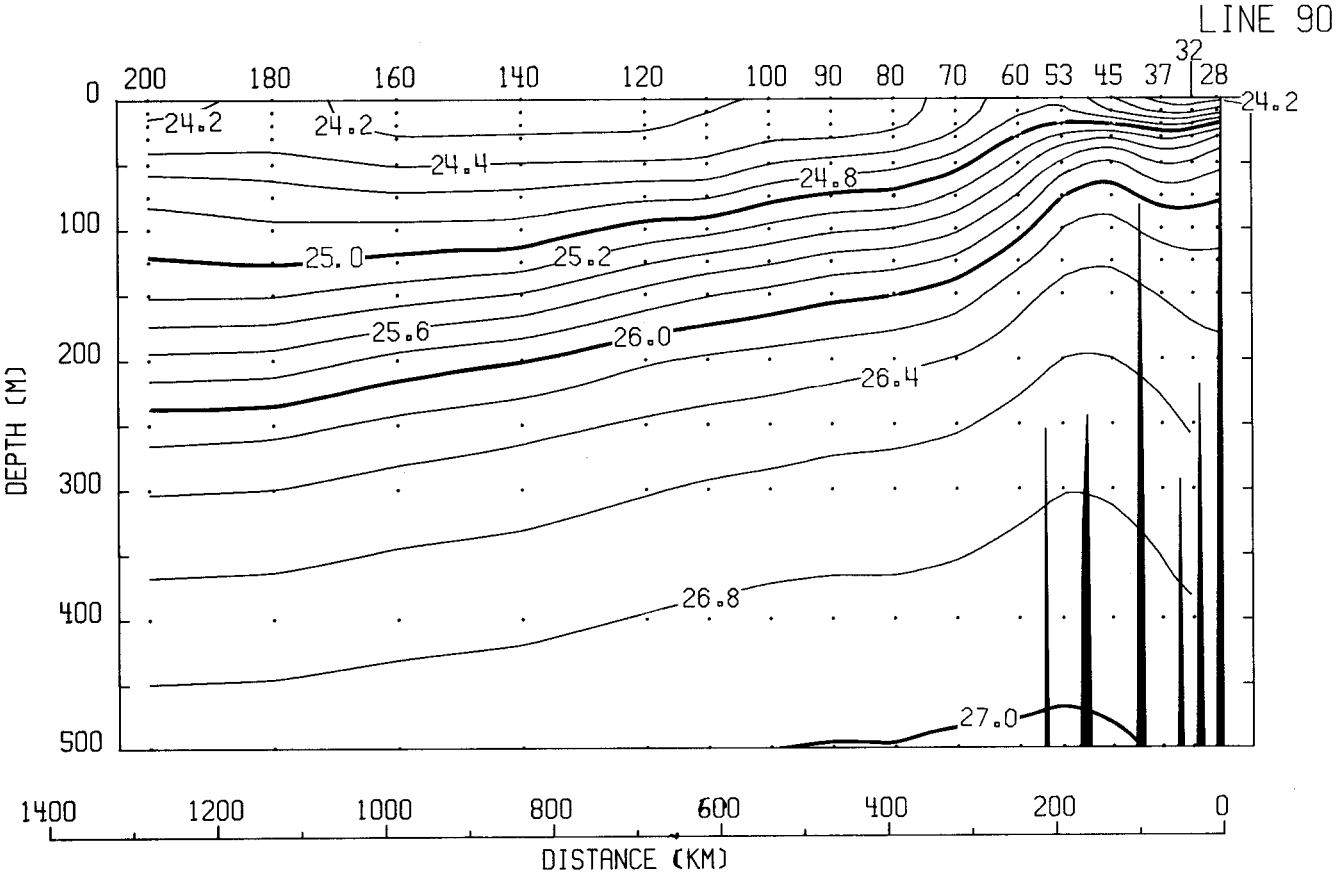
SIGMA-T LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	24.18	24.24	24.30	24.36	24.42	24.65	25.01	25.35	25.45
10	24.20	24.25	24.29	24.36	24.44	24.67	25.04	25.41	25.53
20	24.29	24.26	24.32	24.39	24.49	24.76	25.15	25.60	25.66
30	24.40	24.30	24.38	24.44	24.56	24.90	25.29	25.73	25.79
50	24.63	24.55	24.66	24.70	24.78	25.29	25.63	25.97	25.96
75	24.84	24.85	24.95	25.03	25.14	25.65	25.93	26.18	26.14
100	24.98	25.16	25.25	25.34	25.50	25.94	26.14	26.33	26.23
125	25.09	25.49	25.56	25.68	25.83	26.16	26.30	26.40	26.30
150	25.22	25.78	25.84	25.96	26.10	26.33	26.41	26.46	26.37
200	25.71	26.26	26.27	26.33	26.40	26.52	26.56	26.55	26.48
250	26.13	26.48	26.50	26.53	26.56	26.65	26.68	26.63	26.58
300	26.38	26.63	26.65	26.66	26.68	26.74	26.77	26.70	
400	26.68	26.83	26.84	26.85	26.86	26.91	26.91	26.82	
500	26.90	26.99	27.00	26.99	27.00	27.03	27.02	26.95	

SIGMA-T LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	24.12	24.24	24.15	24.11	24.12	24.16	24.21	24.26	24.32	24.47	24.72	24.77	24.38	24.04	23.93	23.95
10	24.18	24.25	24.15	24.15	24.14	24.20	24.23	24.28	24.32	24.48	24.75	24.82	24.49	24.25	24.19	24.51
20	24.22	24.26	24.16	24.17	24.17	24.23	24.30	24.32	24.35	24.53	24.87	25.01	25.02	24.80	24.78	25.18
30	24.25	24.30	24.19	24.19	24.22	24.28	24.37	24.37	24.42	24.63	25.03	25.29	25.46	25.18	25.25	25.52
50	24.53	24.52	24.38	24.42	24.42	24.42	24.60	24.67	24.74	24.90	25.29	25.74	25.90	25.58	25.61	25.78
75	24.76	24.70	24.64	24.66	24.77	24.77	24.94	25.03	25.05	25.23	25.61	26.05	26.13	25.92	25.93	25.99
100	24.90	24.84	24.85	24.87	25.06	25.13	25.25	25.36	25.40	25.55	25.92	26.24	26.28	26.13	26.10	26.13
125	25.02	24.97	25.04	25.10	25.38	25.49	25.57	25.69	25.73	25.85	26.16	26.36	26.39	26.28	26.23	26.24
150	25.17	25.18	25.31	25.42	25.68	25.79	25.87	25.95	26.00	26.10	26.34	26.48	26.48	26.40	26.34	26.32
200	25.65	25.68	25.88	25.99	26.19	26.24	26.28	26.32	26.36	26.42	26.53	26.61	26.61	26.55	26.48	26.44
250	26.11	26.15	26.27	26.35	26.43	26.47	26.49	26.54	26.55	26.58	26.66	26.72	26.70	26.66	26.58	26.55
300	26.39	26.41	26.49	26.52	26.59	26.62	26.65	26.67	26.67	26.70	26.76	26.80	26.79	26.73	26.66	
400	26.70	26.71	26.74	26.76	26.81	26.83	26.86	26.87	26.86	26.88	26.92	26.94	26.92	26.87	26.82	
500	26.90	26.91	26.93	26.94	26.97	26.98	27.00	27.01	27.01	27.02	27.03	27.03	27.02	26.99	26.96	


LINE 80
200
120
100
90
80
70
60
55
52
0
100
200
300
400
500
DEPTH (M)
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8
27.0


LINE 90
200
180
160
140
120
100
90
80
70
60
53
45
37
32
28
0
100
200
300
400
500
DEPTH (M)
24.2
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8
27.0
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)

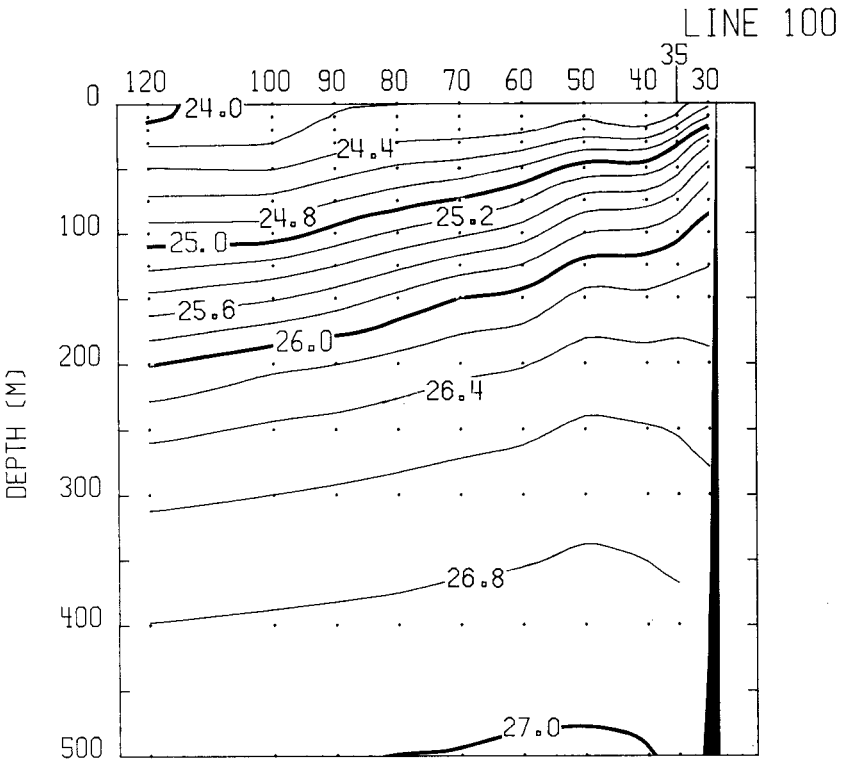
JULY
SIGMA-T

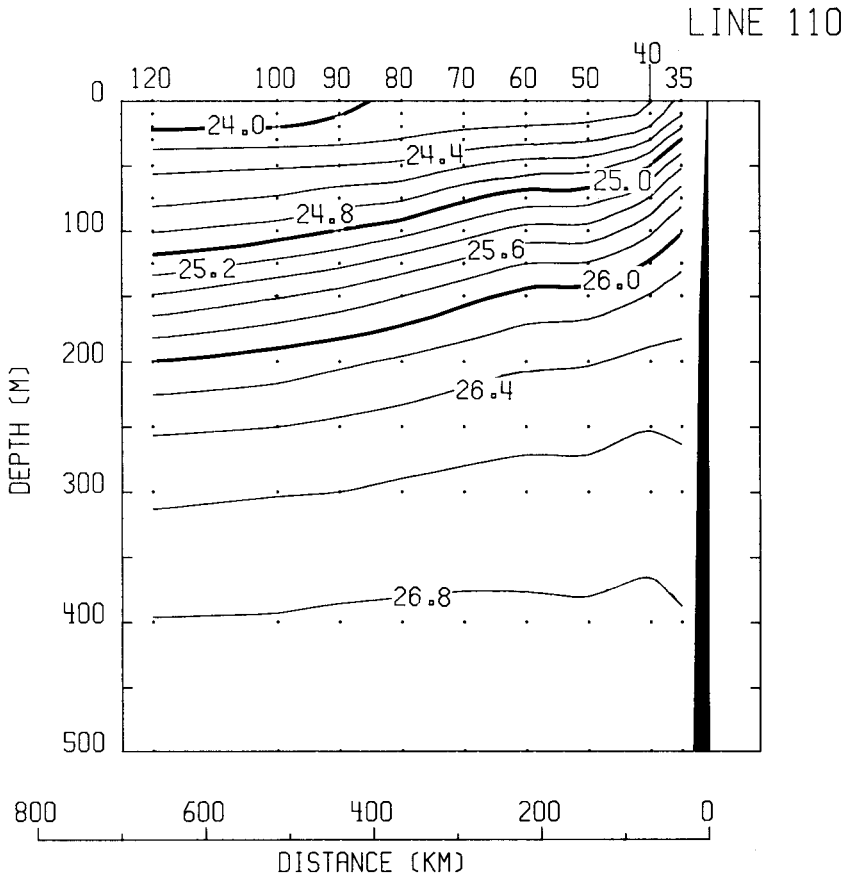
SIGMA-T LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	23.98	24.10	24.19	24.17	24.20	24.23	24.29	24.19	24.23	24.43
10	23.93	24.12	24.20	24.24	24.26	24.27	24.33	24.21	24.34	24.87
20	24.03	24.15	24.25	24.30	24.33	24.36	24.49	24.38	24.61	25.21
30	24.17	24.17	24.32	24.41	24.41	24.47	24.69	24.64	24.91	25.46
50	24.42	24.38	24.51	24.63	24.69	24.83	25.10	25.10	25.28	25.76
75	24.63	24.66	24.79	24.91	25.03	25.17	25.51	25.51	25.65	25.99
100	24.89	24.89	25.08	25.23	25.36	25.49	25.82	25.84	25.94	26.12
125	25.16	25.28	25.40	25.56	25.72	25.81	26.09	26.07	26.14	26.21
150	25.46	25.58	25.70	25.86	26.02	26.06	26.27	26.23	26.29	26.29
200	25.99	26.17	26.21	26.28	26.36	26.39	26.50	26.47	26.48	26.43
250	26.36	26.44	26.47	26.51	26.54	26.57	26.63	26.61	26.59	26.54
300	26.57	26.60	26.63	26.65	26.67	26.69	26.74	26.72	26.69	26.62
400	26.80	26.83	26.84	26.85	26.87	26.88	26.90	26.88	26.84	
500	26.98	26.98	27.00	27.01	27.01	27.03	27.03	27.02	26.97	

SIGMA-T LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	23.82	23.81	23.96	24.02	24.03	24.05	24.08	24.13	24.47
10	23.84	23.86	23.99	24.06	24.09	24.10	24.11	24.17	24.61
20	23.97	24.01	24.06	24.12	24.17	24.21	24.22	24.34	24.87
30	24.11	24.12	24.14	24.19	24.27	24.32	24.35	24.53	25.08
50	24.36	24.39	24.40	24.44	24.58	24.71	24.70	24.97	25.46
75	24.53	24.61	24.72	24.76	24.97	25.11	25.12	25.39	25.80
100	24.78	24.88	25.00	25.13	25.31	25.49	25.46	25.75	26.05
125	25.06	25.26	25.35	25.50	25.66	25.82	25.81	26.02	26.20
150	25.42	25.60	25.68	25.81	25.94	26.08	26.08	26.22	26.31
200	26.01	26.10	26.17	26.24	26.32	26.38	26.39	26.46	26.46
250	26.38	26.41	26.44	26.48	26.53	26.55	26.55	26.60	26.57
300	26.57	26.60	26.60	26.63	26.65	26.67	26.65	26.70	26.66
400	26.81	26.82	26.83	26.84	26.85	26.84	26.83	26.87	26.81
500	26.98	26.98	26.99	26.99	26.99	26.98	26.98	27.00	26.95


LINE 100
35
120
100
90
80
70
60
50
40
30
0
100
200
300
400
500
DEPTH (M)
24.0
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8
27.0


LINE 110
40
120
100
90
80
70
60
50
35
0
100
200
300
400
500
DEPTH (M)
24.0
24.4
25.0
24.8
25.6
25.2
26.0
26.4
26.8
800
600
400
200
0
DISTANCE (KM)

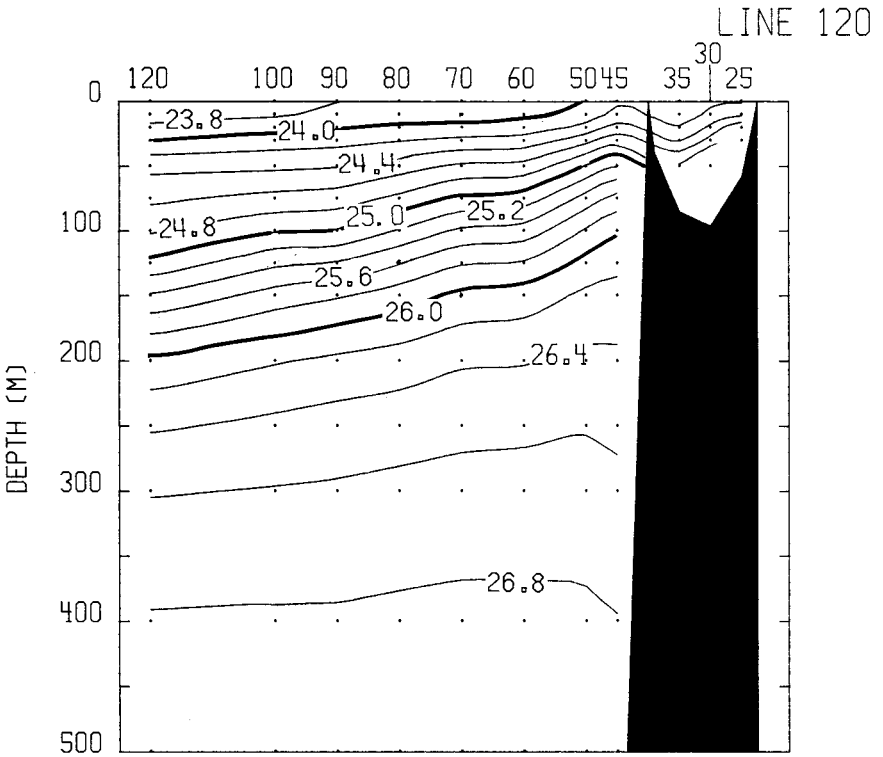
JULY
SIGMA-T

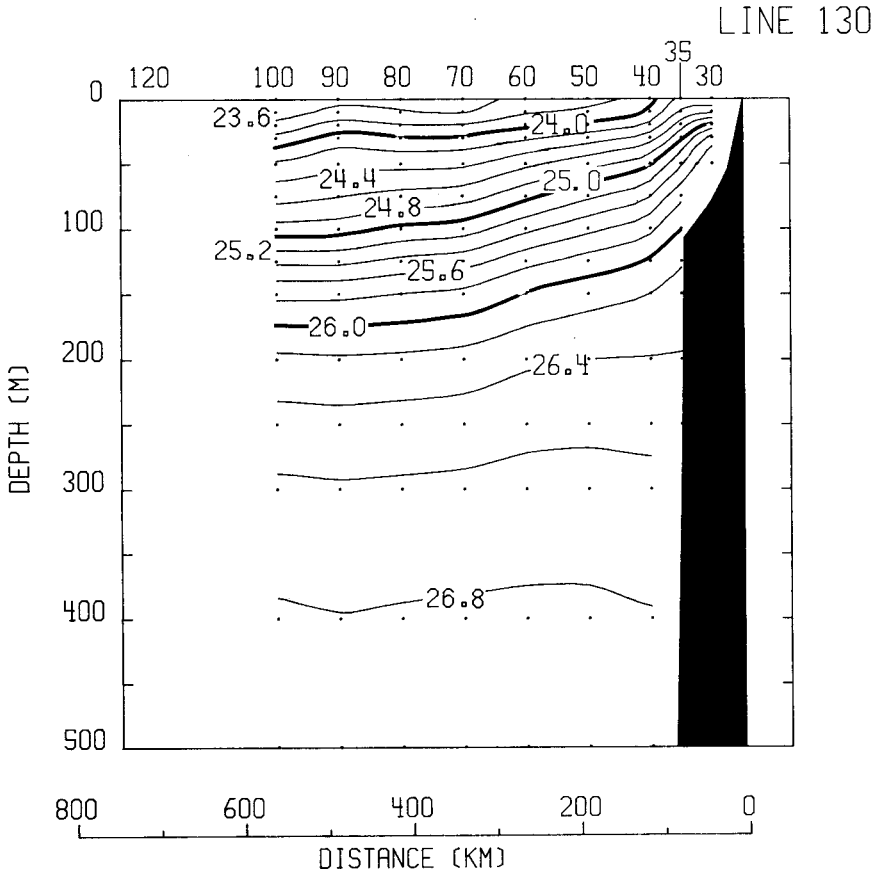
SIGMA-T LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	23.67	23.67	23.78	23.84	23.82	23.90	23.97	24.18	24.03	24.16	24.14
10	23.69	23.72	23.84	23.86	23.86	23.96	24.02	24.25	24.06	24.21	24.26
20	23.82	23.95	23.97	24.04	24.05	24.07	24.23	24.54	24.15	24.41	24.90
30	24.00	24.11	24.13	24.19	24.26	24.28	24.55	24.81	24.27	24.70	25.32
50	24.36	24.36	24.39	24.51	24.66	24.66	25.01	25.28	24.83	25.31	
75	24.55	24.66	24.69	24.84	25.06	25.08	25.49	25.72			
100	24.76	24.99	24.99	25.22	25.46	25.47	25.84	26.01			
125	25.04	25.37	25.42	25.61	25.81	25.82	26.08	26.16			
150	25.42	25.69	25.79	25.90	26.07	26.09	26.25	26.28			
200	26.05	26.19	26.25	26.30	26.39	26.39	26.46	26.44			
250	26.38	26.45	26.49	26.52	26.55	26.56	26.59	26.55			
300	26.59	26.61	26.63	26.65	26.67	26.67	26.69	26.64			
400	26.82	26.83	26.83	26.84	26.86	26.86	26.85	26.80			
500	26.98	26.99	26.98	26.99	27.00	27.00	26.99	26.95			

SIGMA-T LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	23.37	23.51	23.53	23.46	23.65	23.70	23.81	24.25	24.09
10	23.47	23.64	23.56	23.50	23.75	23.79	23.97	24.49	24.41
20	23.62	23.93	23.81	23.82	23.95	24.04	24.15	24.68	25.30
30	23.85	24.16	24.03	24.05	24.16	24.30	24.48	24.95	25.62
50	24.25	24.35	24.35	24.35	24.56	24.74	24.92	25.42	25.89
75	24.51	24.58	24.66	24.70	24.93	25.17	25.35	25.84	
100	24.87	24.89	25.05	25.08	25.35	25.54	25.73	26.07	
125	25.38	25.36	25.47	25.52	25.75	25.90	26.01	26.22	
150	25.76	25.76	25.82	25.85	26.04	26.12	26.20	26.30	
200	26.26	26.24	26.25	26.28	26.37	26.41	26.41	26.42	
250	26.48	26.47	26.49	26.50	26.55	26.56	26.55	26.50	
300	26.64	26.62	26.63	26.64	26.67	26.67	26.65		
400	26.83	26.81	26.82	26.84	26.84	26.85	26.81		
500	27.00	26.96	26.97	26.97	26.99	26.99	26.96		


LINE 120
120
100
90
80
70
60
50
45
35
30
25
0
100
200
300
400
500
DEPTH (M)
23.8
24.0
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8


LINE 130
120
100
90
80
70
60
50
40
35
30
0
100
200
300
400
500
DEPTH (M)
23.6
24.0
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8
800
600
400
200
0
DISTANCE (KM)

JULY
SIGMA-T

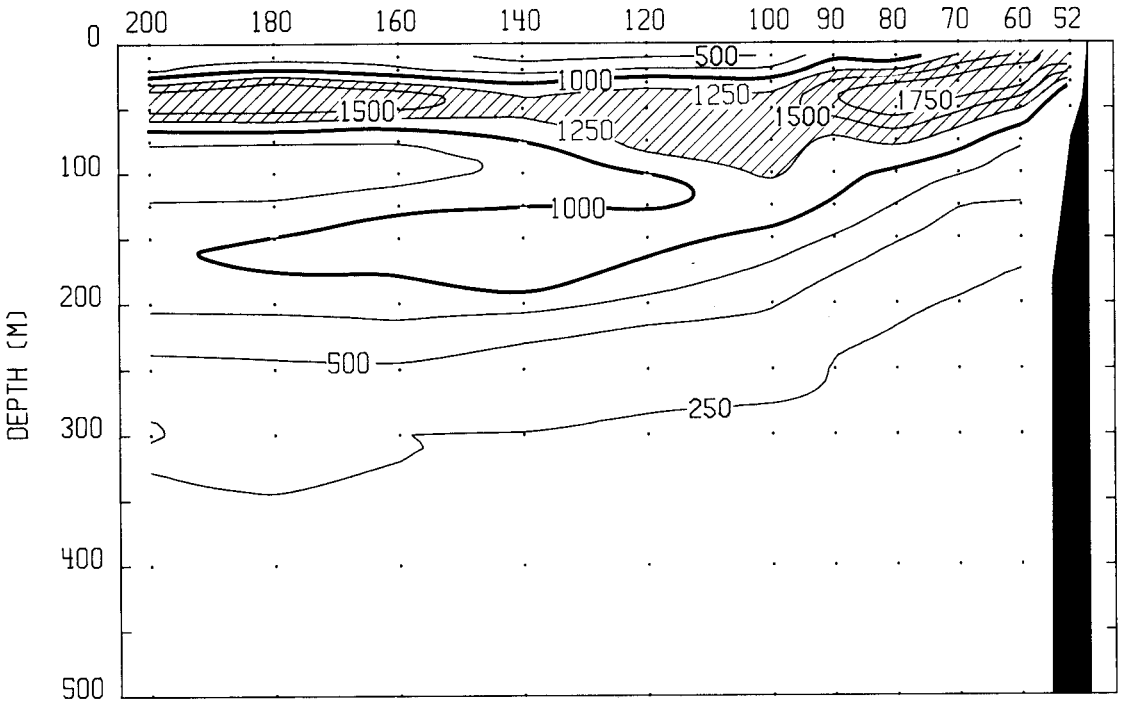
STABILITY (10E-8/M) LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0											
10	666	437	662	287	299	355	806	644	1020	1238	2213
20	516	1049	625	637	833	799	1236	1136	1773	2108	1699
30	1168	1577	1229	1001	1134	1054	1580	1771	1944	2050	924
50	1650	1638	1596	1315	1500	1389	1673	2001	1589	1224	
75	785	774	750	989	1353	1424	1177	1343	1111	790	
100	606	529	654	786	992	1311	1059	967	778	585	
125	772	794	936	998	950	1142	971	741	498	477	
150	956	1014	1109	1209	1107	924	730	520	378	315	
200	819	843	860	882	670	527	362	277	235	196	
250	406	453	455	373	310	308	240	202	183	168	
300	240	295	245	243	227	206	210	172	168	159	
400	211	198	185	160	166	149	152	131	132	133	
500											

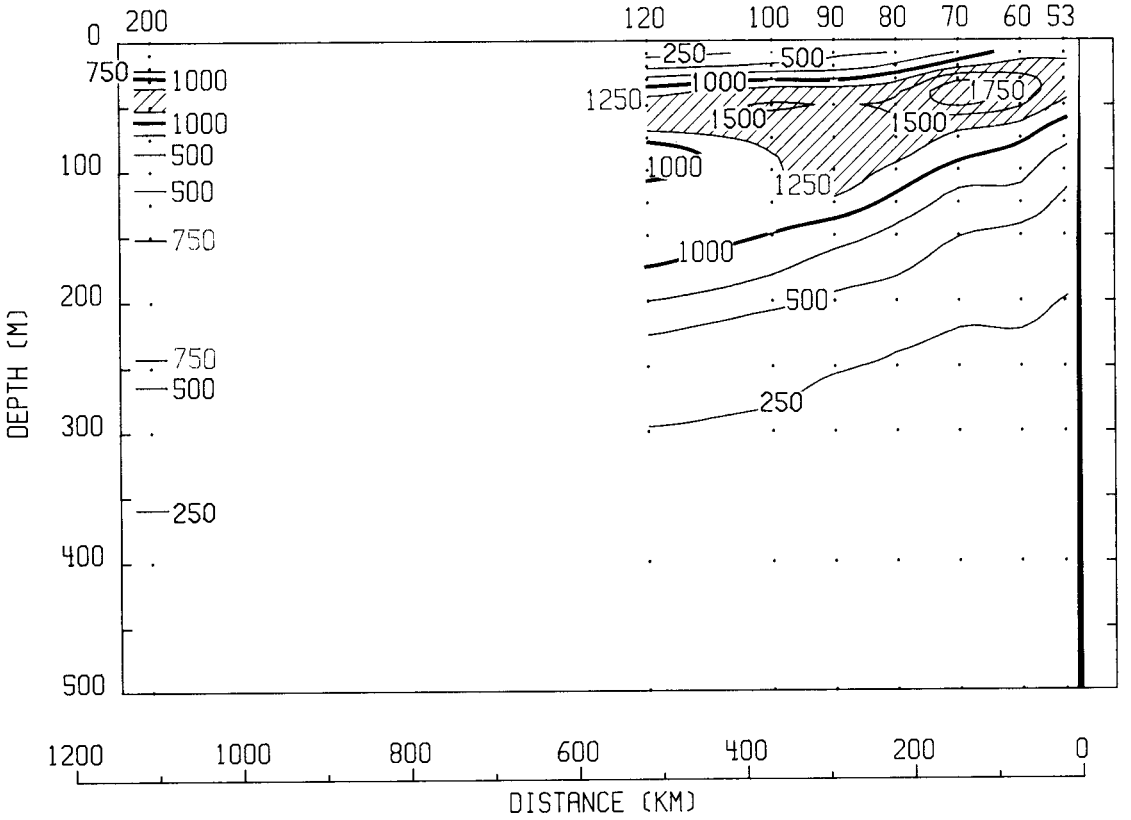
STABILITY (10E-8/M) LINE 070 JULY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0								
10	516	29	195	434	380	567	1013	1075
20	566	430	485	490	744	1149	1424	1392
30	1068	816	1005	964	1161	1814	1589	1342
50	1376	1439	1567	1534	1541	1862	1572	1139
75	647	1086	1332	1333	1415	1179	1066	763
100	429	841	1216	1395	1211	903	834	560
125	536	1166	1155	1218	915	641	650	426
150	734	1165	997	852	684	494	452	355
200	993	754	562	451	390	287	286	237
250	664	366	285	256	234	198	209	180
300	319	241	224	190	192	168	168	148
400	215	163	158	155	146	141	129	124
500								

LINE 60



LINE 70



JULY
STABILITY

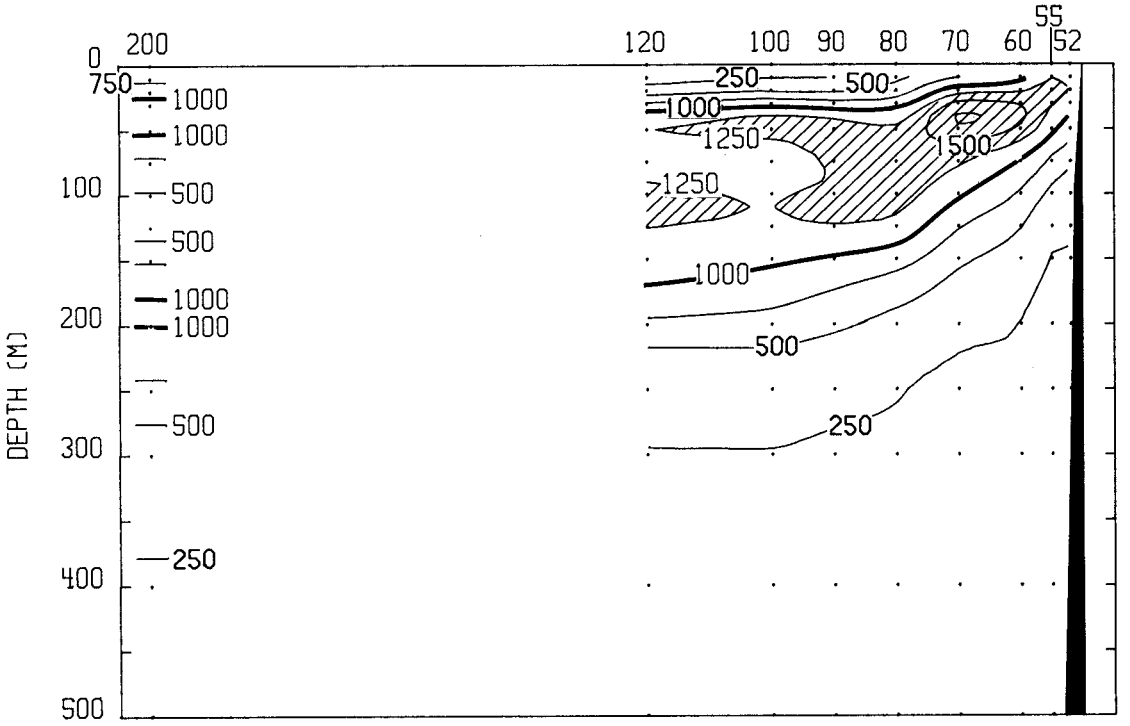
STABILITY (10E-8/M) LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0									
10	550	59	144	180	360	547	726	1244	1074
20	989	269	455	369	570	1176	1245	1563	1293
30	1118	804	925	821	829	1686	1513	1251	1102
50	1046	1274	1364	1406	1295	1765	1511	1061	788
75	699	1198	1149	1272	1491	1289	1011	700	525
100	473	1290	1226	1301	1402	1029	737	416	300
125	435	1262	1202	1247	1194	755	531	245	273
150	715	1130	1040	972	881	539	378	212	249
200	1012	687	641	537	415	291	251	171	200
250	676	323	347	303	254	205	202	144	
300	393	239	241	220	207	182	165	127	
400	238	171	160	162	155	140	124	123	
500									

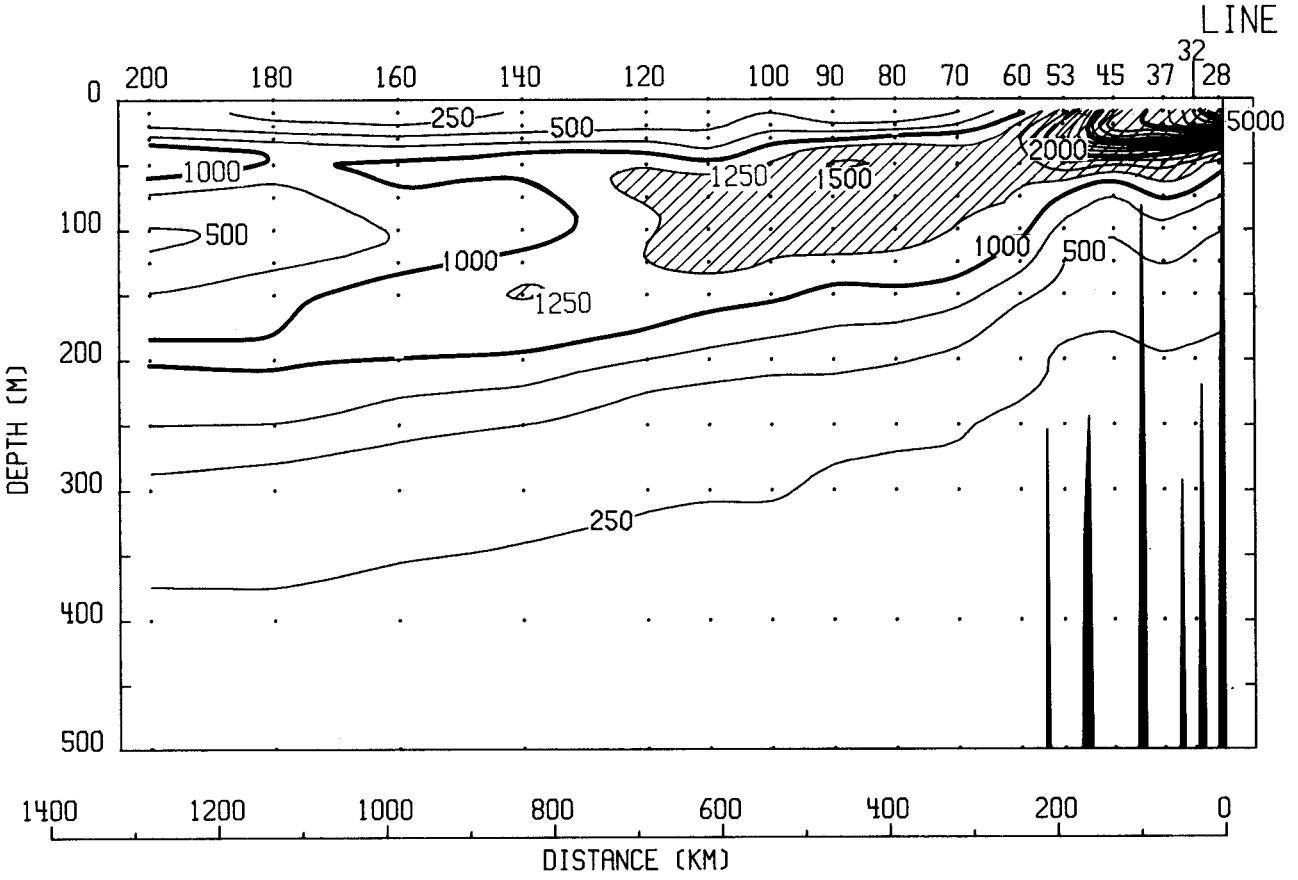
STABILITY (10E-8/M) LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0																
10	500	83	74	306	227	329	442	288	127	323	745	1202	3194	3805	4252	6167
20	339	258	200	206	394	420	659	413	483	747	1369	2344	4872	4635	5297	5067
30	789	708	540	631	686	561	883	937	1108	1142	1497	2621	3548	3081	3547	2525
50	1299	989	1074	1125	1266	1040	1297	1582	1506	1382	1288	1764	1432	1585	1345	929
75	701	619	958	876	1311	1453	1329	1364	1311	1295	1251	953	680	1052	951	693
100	474	515	766	857	1198	1466	1263	1340	1373	1238	1116	598	514	714	583	488
125	525	682	897	1113	1249	1346	1244	1188	1188	1112	850	455	393	530	460	365
150	770	930	1149	1281	1174	1103	1073	909	954	871	561	380	312	384	362	276
200	1022	1024	1003	952	744	649	586	572	524	438	274	226	209	244	229	227
250	752	739	581	496	358	344	334	320	280	256	225	183	172	178	173	
300	431	401	339	276	262	259	263	222	210	210	184	149	155	145	156	
400	227	228	202	199	183	172	169	167	164	156	132	117	115	127	150	
500																

LINE 80



LINE 90



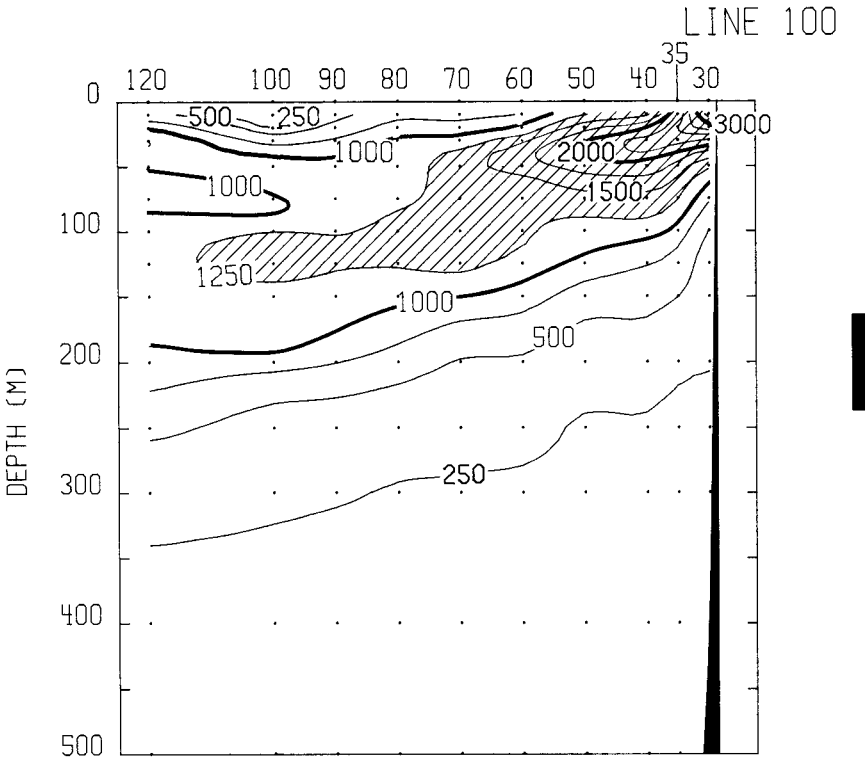
JULY
STABILITY

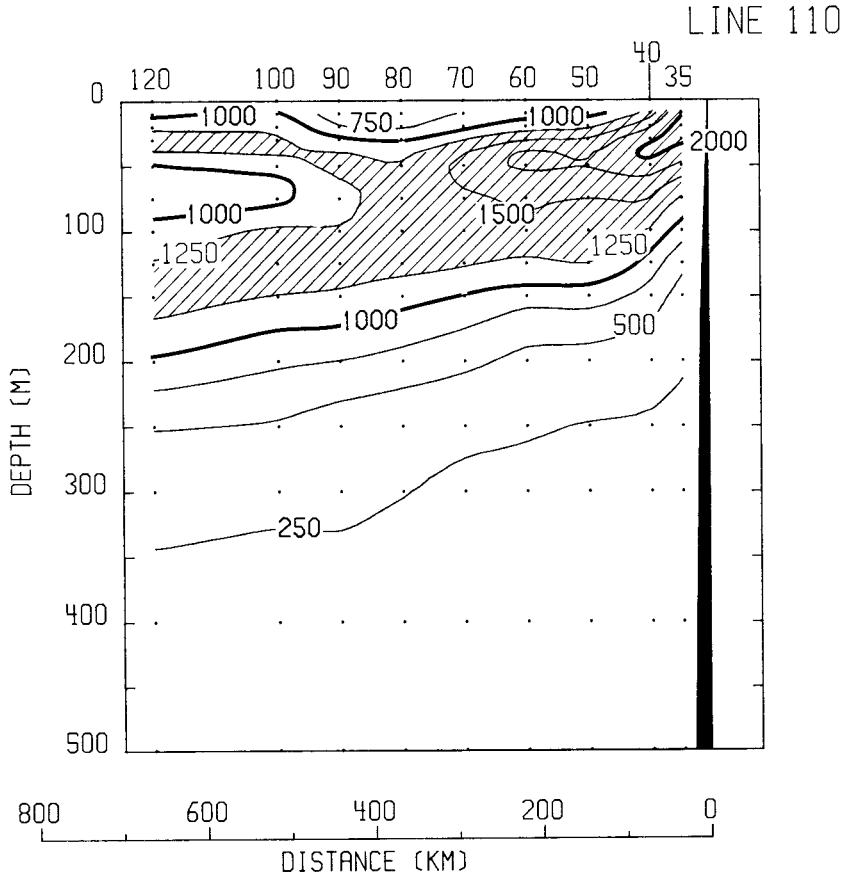
STABILITY (10E-8/M) LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0										
10	287	233	323	628	627	607	995	957	1904	3907
20	1199	238	602	863	777	1010	1814	2119	2820	2947
30	1339	596	782	1124	1066	1445	2077	2500	2508	2094
50	1023	1150	1062	1095	1418	1653	1885	1998	1621	1203
75	911	968	1125	1202	1342	1291	1418	1447	1331	686
100	1054	1258	1227	1322	1391	1284	1154	1112	954	391
125	1136	1430	1272	1265	1343	1155	905	758	682	324
150	1187	1233	1160	1069	991	879	614	582	519	313
200	912	873	758	621	467	465	324	363	272	254
250	562	382	375	333	291	280	232	236	198	198
300	324	269	262	236	232	221	193	190	173	
400	182	181	174	170	162	159	140	143	139	
500										

STABILITY (10E-8/M) LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0									
10	750	975	492	486	707	788	697	1057	1972
20	1350	1324	735	669	922	1117	1230	1790	2372
30	1377	1259	1033	972	1252	1493	1487	2045	2069
50	953	1122	1351	1265	1597	1855	1762	1995	1640
75	799	926	1179	1385	1455	1548	1493	1543	1160
100	1069	1328	1274	1535	1381	1436	1394	1271	793
125	1282	1464	1377	1362	1279	1183	1283	925	503
150	1390	1230	1207	1086	994	844	897	653	358
200	965	787	743	645	550	432	416	355	254
250	515	472	386	356	302	268	236	229	192
300	296	295	269	253	216	198	182	180	162
400	195	174	192	169	166	152	161	146	142
500									





JULY
STABILITY

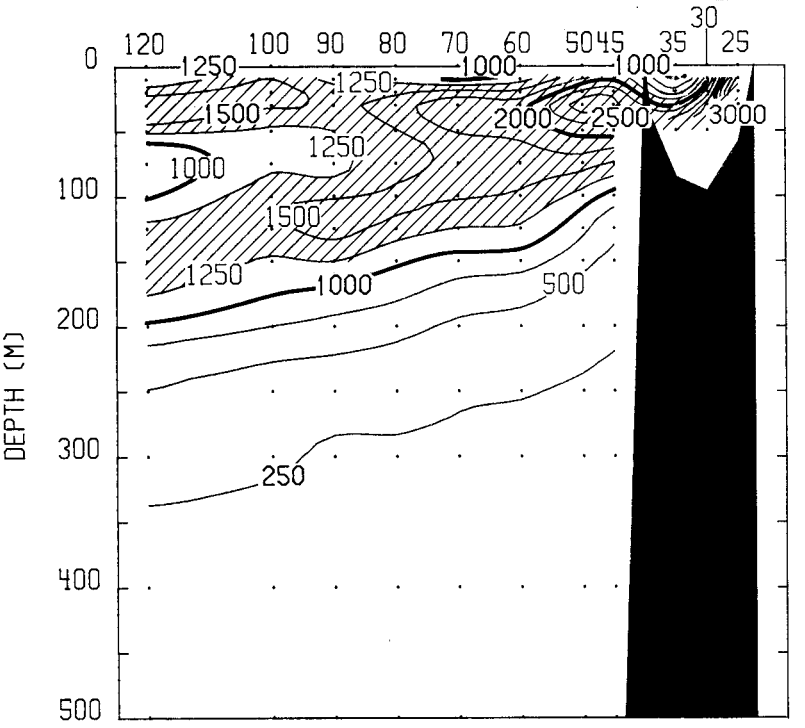
STABILITY (10E-8/M) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0											
10	750	1370	989	976	1158	893	1293	1773	613	1233	3788
20	1549	1930	1472	1636	2019	1584	2659	2826	1070	2466	5311
30	1840	1479	1456	1589	2048	1977	2870	2615	1750	2980	
50	1297	1191	1221	1473	1789	1808	2090	2076			
75	727	1234	1180	1383	1587	1626	1638	1441			
100	956	1441	1475	1571	1530	1484	1167	849			
125	1333	1438	1643	1382	1226	1241	821	515			
150	1488	1200	1264	1027	875	886	567	401			
200	952	738	654	583	440	419	311	263			
250	491	378	332	316	257	263	219	193			
300	329	269	223	224	213	198	168	162			
400	174	177	173	166	163	162	149	153			
500											

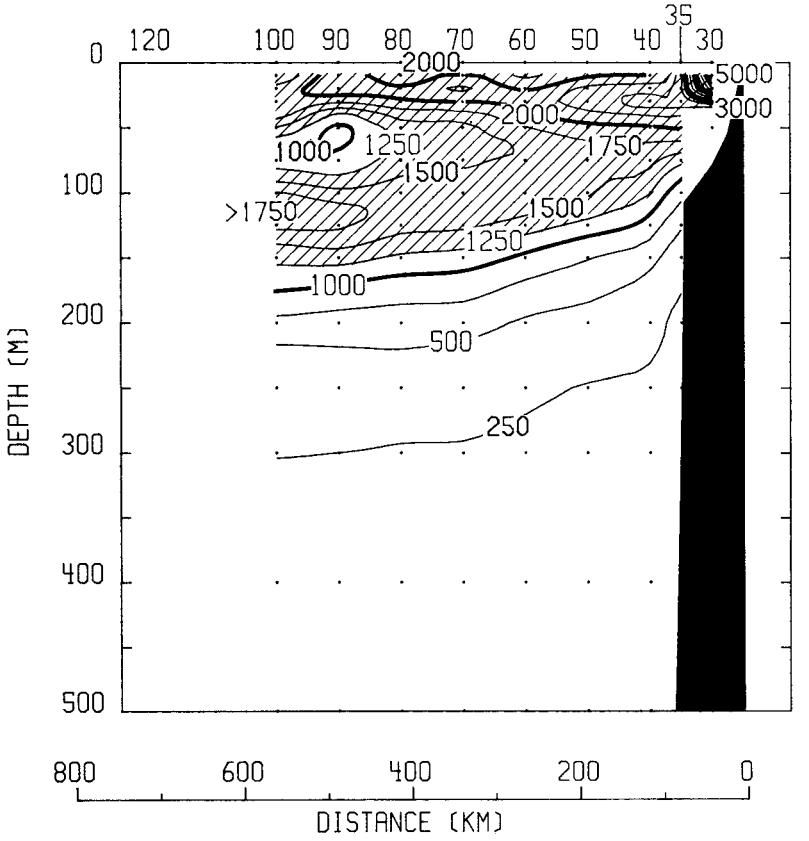
STABILITY (10E-8/M) LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0									
10	1250	2109	1400	1822	1472	1718	1709	2183	6026
20	1883	2579	2344	2768	2016	2579	2540	2294	6068
30	2205	1736	1986	1961	2091	2455	2836	2559	2594
50	1519	823	1356	1372	1734	1927	1904	2063	
75	1116	1032	1362	1443	1549	1595	1616	1276	
100	1811	1583	1655	1683	1694	1484	1327	718	
125	1840	1816	1579	1572	1387	1162	937	455	
150	1308	1375	1188	1150	945	753	613	278	
200	670	628	615	596	455	403	307	188	
250	327	342	350	326	271	238	224		
300	259	247	235	237	207	194	177		
400	162	152	161	157	153	157	151		
500									

LINE 120



LINE 130



JULY
STABILITY

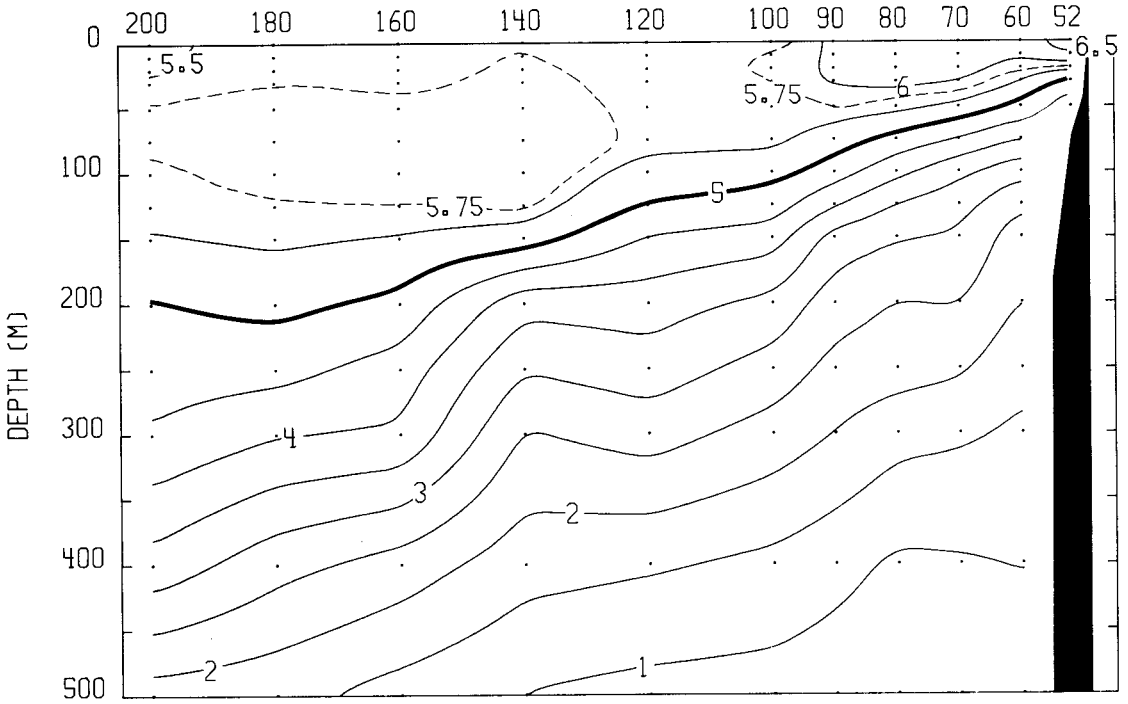
OXYGEN (ML/L) LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	5.43	5.61	5.62	5.73	5.48	5.61	6.08	6.06	6.24	6.15	7.04
10	5.44	5.66	5.67	5.77	5.58	5.79	6.06	6.13	6.27	6.11	6.73
20	5.47	5.68	5.68	5.79	5.53	5.77	6.07	6.20	6.23	5.80	5.58
30	5.51	5.74	5.69	5.83	5.56	5.75	6.08	6.17	6.04	5.54	4.83
50	5.79	5.89	5.84	5.94	5.66	5.71	5.75	5.66	5.39	4.88	4.14
75	5.79	5.96	5.94	6.04	5.66	5.66	5.27	4.83	4.47	4.00	
100	5.69	5.92	5.85	5.89	5.32	5.17	4.76	4.17	3.63	3.17	
125	5.60	5.71	5.73	5.78	4.98	4.78	4.07	3.46	3.19	2.57	
150	5.47	5.58	5.47	5.25	4.46	4.25	3.29	3.04	2.94	2.23	
200	4.96	5.14	4.87	3.66	3.73	3.36	2.73	2.48	2.53	1.97	
250	4.73	4.67	4.28	3.03	3.27	2.79	2.34	2.22	2.08	1.63	
300	4.44	4.04	3.92	2.45	2.72	2.29	1.98	1.67	1.58	1.41	
400	3.31	2.67	2.27	1.69	1.57	1.37	1.16	0.91	0.95	1.02	
500	1.78	1.64	1.29	0.97	0.84	0.80	0.70	0.60	0.60	0.63	

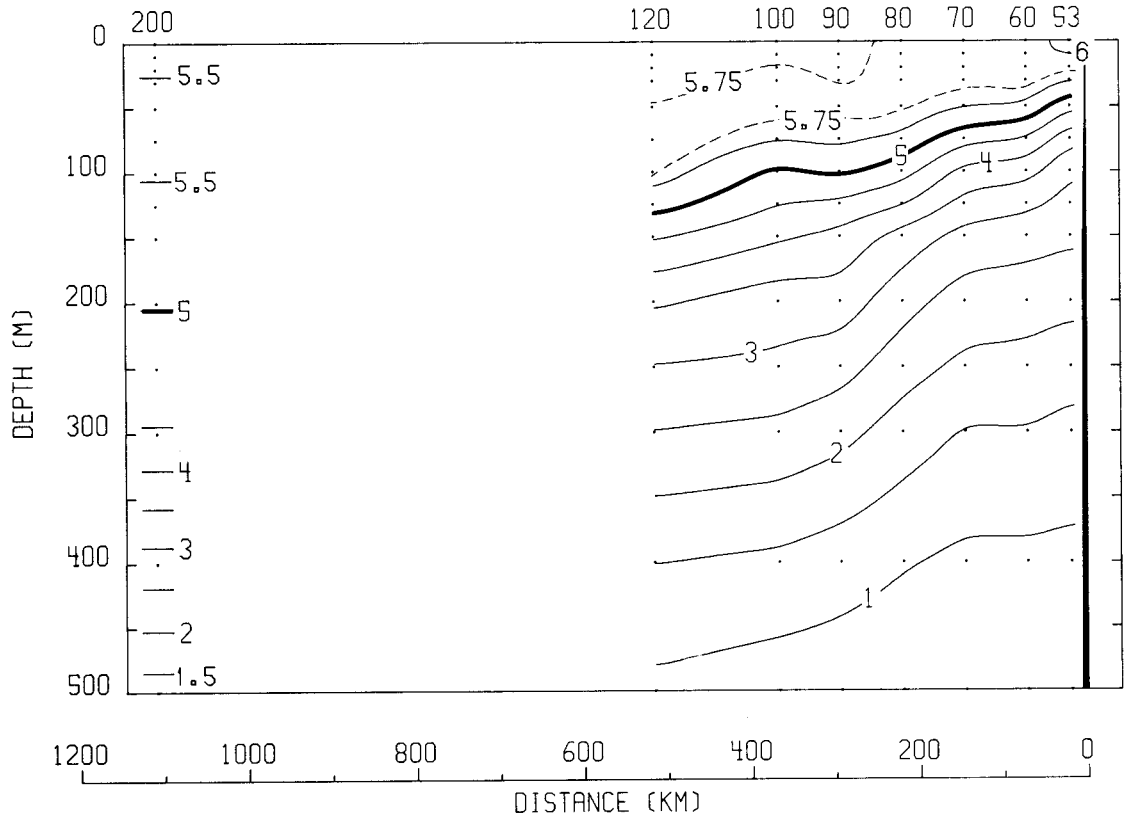
OXYGEN (ML/L) LINE 070 JULY

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	5.45	5.49	5.67	5.66	5.93	5.91	5.88	6.09
10	5.42	5.59	5.72	5.69	5.80	5.92	5.95	6.07
20	5.45	5.56	5.77	5.70	5.84	5.93	5.93	5.83
30	5.53	5.58	5.79	5.72	5.82	5.92	5.89	5.53
50	5.74	5.77	5.86	5.84	5.84	5.55	5.48	4.57
75	5.66	5.94	5.55	5.63	5.44	4.66	4.47	3.59
100	5.53	5.77	4.91	5.09	4.72	3.83	3.72	3.01
125	5.41	5.23	4.52	4.40	4.06	3.34	3.12	2.81
150	5.34	4.55	4.08	3.85	3.30	2.82	2.72	2.59
200	5.03	3.56	3.23	3.28	2.69	2.26	2.20	2.13
250	4.75	2.98	2.90	2.71	2.21	1.89	1.86	1.71
300	4.48	2.49	2.37	2.16	1.77	1.46	1.47	1.34
400	2.79	1.50	1.39	1.23	1.04	0.89	0.89	0.86
500	1.28	0.88	0.72	0.69	0.60	0.57	0.58	0.60

LINE 60



LINE 70



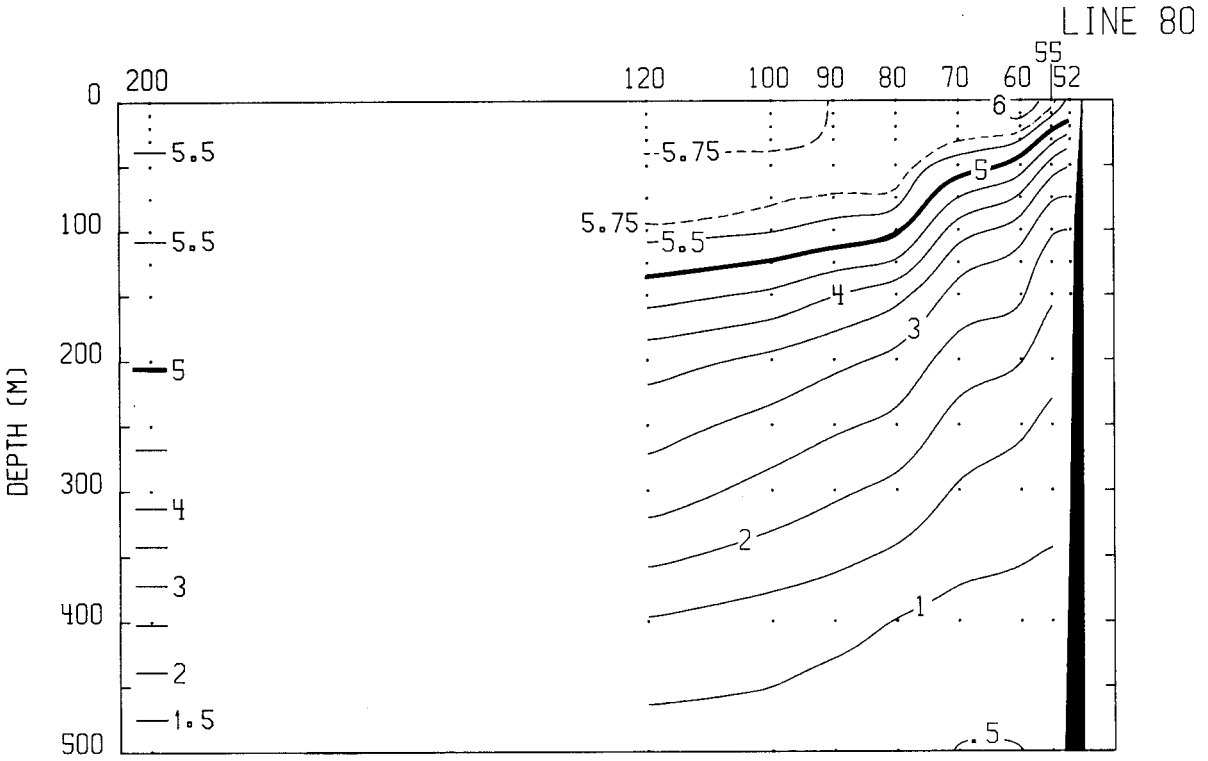
JULY
OXYGEN

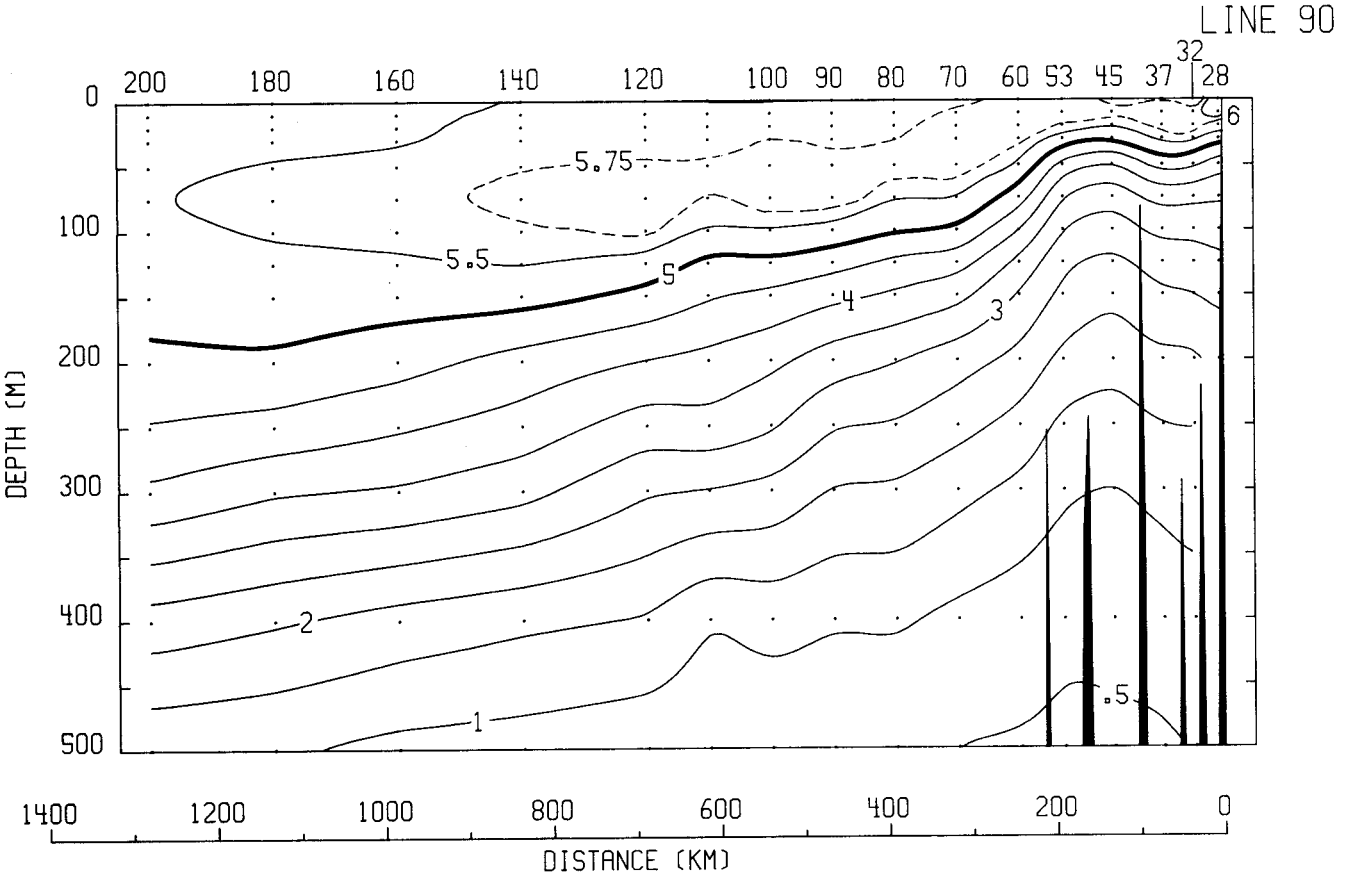
OXYGEN (ML/L) LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	5.36	5.59	5.64	5.76	5.79	5.93	6.03	5.96	5.32
10	5.39	5.61	5.71	5.73	5.80	5.96	6.07	5.85	5.17
20	5.43	5.62	5.69	5.77	5.80	5.97	5.90	5.25	4.63
30	5.45	5.66	5.68	5.78	5.82	5.84	5.67	4.76	4.07
50	5.57	5.87	5.84	5.88	5.81	5.30	4.89	3.69	3.43
75	5.63	5.98	5.86	5.74	5.77	4.44	4.00	2.87	3.04
100	5.54	5.69	5.56	5.37	5.23	3.68	3.30	2.41	2.50
125	5.41	5.19	5.01	4.68	4.52	3.11	2.85	2.14	2.32
150	5.22	4.71	4.40	4.00	3.67	2.77	2.66	1.93	2.13
200	5.05	3.70	3.37	3.12	2.87	2.23	2.07	1.61	
250	4.66	3.20	2.83	2.58	2.39	1.78	1.61	1.33	
300	4.21	2.79	2.33	2.08	1.88	1.44	1.25	1.14	
400	2.53	1.46	1.26	1.16	0.97	0.82	0.82	0.79	
500	1.16	0.75	0.75	0.59	0.62	0.47	0.47	0.58	

OXYGEN (ML/L) LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	5.26	5.36	5.41	5.50	5.49	5.44	5.43	5.52	5.67	5.65	5.91	5.98	5.71	5.75	5.65	6.23
10	5.30	5.42	5.48	5.55	5.62	5.60	5.61	5.58	5.67	5.79	5.98	6.04	5.87	5.91	5.89	6.42
20	5.31	5.42	5.47	5.55	5.64	5.51	5.67	5.58	5.71	5.84	5.96	5.74	5.53	5.87	5.99	5.80
30	5.32	5.42	5.47	5.55	5.66	5.56	5.75	5.60	5.73	5.88	5.86	5.34	5.07	5.67	5.81	5.03
50	5.44	5.54	5.57	5.74	5.79	5.79	5.89	5.87	5.85	5.86	5.54	4.19	3.86	4.73	4.65	4.11
75	5.50	5.59	5.70	5.80	5.99	5.73	5.92	5.91	5.53	5.55	4.79	3.39	3.14	3.66	3.60	3.53
100	5.42	5.54	5.59	5.73	5.82	5.47	5.49	5.37	5.05	4.99	4.02	2.92	2.72	3.17	3.10	3.19
125	5.29	5.40	5.45	5.54	5.35	4.81	4.91	4.68	4.38	4.22	3.36	2.55	2.38	2.70	2.79	2.95
150	5.15	5.27	5.21	5.20	4.86	4.55	4.38	4.14	3.93	3.68	2.95	2.34	2.09	2.45	2.46	2.68
200	4.89	4.92	4.69	4.30	3.98	3.85	3.62	3.25	3.02	2.71	2.36	1.84	1.65	1.91	1.89	2.16
250	4.47	4.32	4.06	3.78	3.25	3.35	3.08	2.52	2.46	2.18	1.84	1.35	1.27	1.49	1.52	
300	3.90	3.55	3.44	3.16	2.55	2.48	2.34	1.95	1.93	1.64	1.38	1.06	0.97	1.13	1.21	
400	2.28	2.05	1.79	1.60	1.46	1.02	1.18	1.04	1.07	0.87	0.72	0.58	0.61	0.68	0.82	
500	1.10	1.03	0.86	0.78	0.66	0.60	0.61	0.58	0.57	0.49	0.46	0.41	0.42	0.44	0.51	


LINE 80
200
120
100
90
80
70
60
55
52
0
100
200
300
400
500
DEPTH (M)
5.5
5.5
5
4
3
2
1.5
5.75
5.75
5.5
6
5
4
3
2
1
.5


LINE 90
200
180
160
140
120
100
90
80
70
60
53
45
37
32
28
0
100
200
300
400
500
DEPTH (M)
5.75
5.5
5
4
3
2
1
6
.5
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)

JULY
OXYGEN

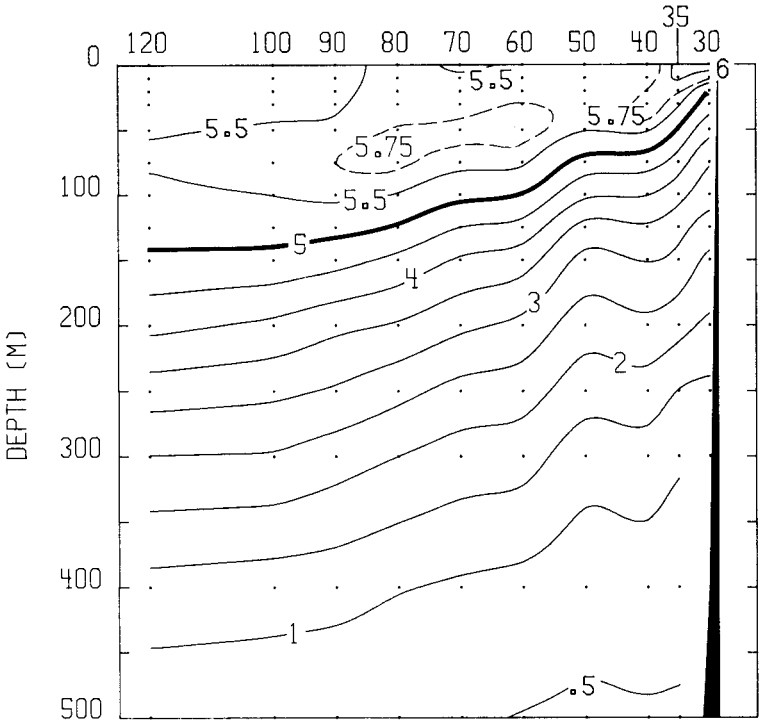
OXYGEN (ML/L) LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	5.17	5.37	5.46	5.54	5.47	5.50	5.58	5.60	6.06	6.30
10	5.15	5.37	5.45	5.55	5.50	5.54	5.68	5.65	6.26	5.87
20	5.20	5.39	5.46	5.57	5.57	5.66	5.66	5.78	6.05	4.72
30	5.26	5.41	5.46	5.62	5.60	5.75	5.66	5.92	5.68	4.57
50	5.49	5.55	5.52	5.76	5.80	5.89	5.57	5.68	5.07	4.01
75	5.53	5.65	5.75	5.81	5.65	5.66	4.72	4.75	4.31	3.36
100	5.43	5.51	5.63	5.52	5.10	5.08	4.05	4.06	3.69	3.14
125	5.23	5.28	5.17	4.97	4.46	4.36	3.23	3.47	3.20	2.67
150	4.91	4.86	4.68	4.37	3.91	3.76	2.78	3.05	2.93	2.29
200	4.14	3.89	3.60	3.45	3.10	2.88	2.16	2.43	2.20	1.86
250	3.24	3.11	2.94	2.64	2.32	2.24	1.68	1.83	1.43	1.37
300	2.48	2.46	2.23	1.99	1.77	1.73	1.17	1.31	1.02	1.02
400	1.33	1.23	1.18	1.02	0.92	0.84	0.65	0.74	0.65	
500	0.62	0.62	0.57	0.54	0.52	0.48	0.43	0.46	0.44	

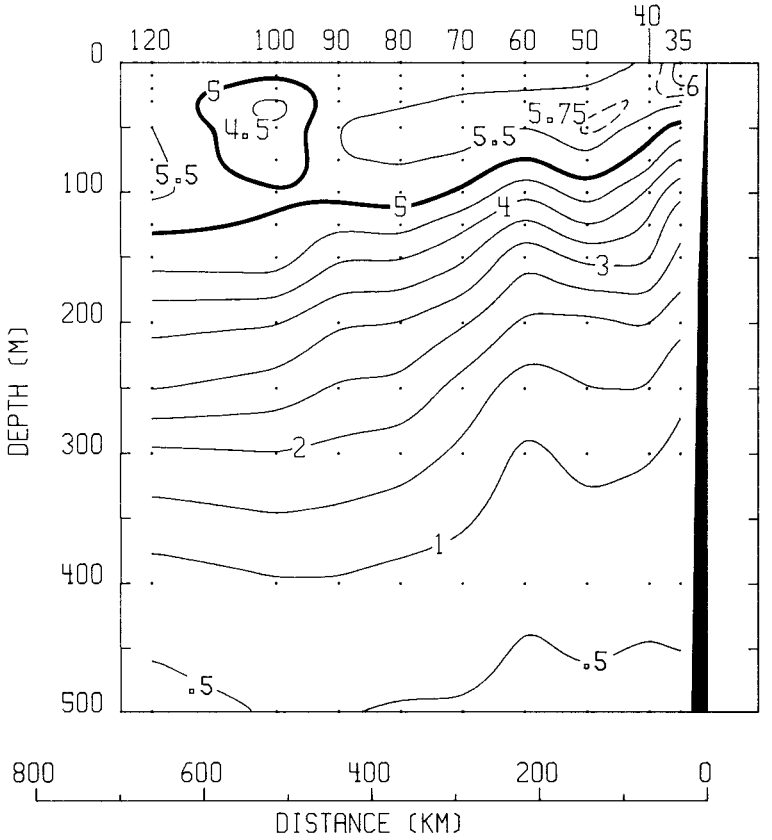
OXYGEN (ML/L) LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	5.23	5.09	5.28	5.36	5.39	5.33	5.42	5.49	6.12
10	5.25	4.97	5.22	5.40	5.40	5.37	5.41	5.60	6.29
20	5.29	5.06	5.26	5.38	5.46	5.49	5.51	5.71	6.05
30	5.36	4.03	5.31	5.44	5.55	5.59	5.63	5.74	5.58
50	5.50	4.60	5.56	5.65	5.71	5.53	5.77	5.36	4.71
75	5.56	4.43	5.51	5.55	5.45	4.96	5.50	4.78	3.80
100	5.67	5.10	5.13	5.33	4.99	4.06	4.80	3.91	2.96
125	5.09	4.92	4.60	4.71	4.12	3.27	4.09	3.45	2.47
150	4.73	4.81	4.04	4.05	3.61	2.59	3.15	3.13	2.24
200	3.65	3.53	3.04	2.98	2.56	1.89	1.85	2.05	1.56
250	3.05	2.78	2.43	2.37	1.80	1.22	1.50	1.50	1.00
300	1.88	1.98	1.85	1.73	1.40	0.89	1.14	1.05	0.87
400	0.73	0.95	0.95	0.82	0.75	0.55	0.64	0.58	0.60
500	0.33	0.52	0.50	0.47	0.47	0.39	0.42	0.38	0.41

LINE 100



LINE 110



JULY
OXYGEN

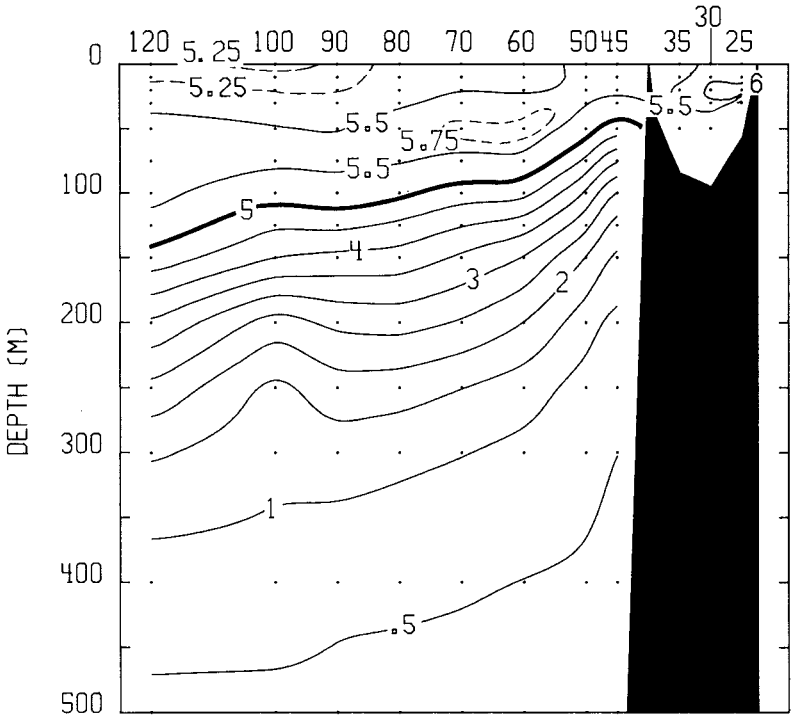
OXYGEN (ML/L) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	5.22	5.35	5.19	5.24	5.30	5.36	5.60	5.60	5.54	5.65	5.77
10	5.21	5.05	5.20	5.26	5.36	5.34	5.54	5.58	5.51	5.75	5.92
20	5.29	5.23	5.24	5.35	5.50	5.46	5.57	5.56	5.62	6.27	6.17
30	5.41	5.35	5.34	5.44	5.64	5.60	5.55	5.44	5.64	5.93	4.91
50	5.65	5.53	5.49	5.68	5.78	5.80	5.37	4.59	5.49	4.71	
75	5.70	5.61	5.58	5.58	5.40	5.46	4.47	3.36			
100	5.64	5.20	5.39	5.11	4.74	4.72	3.47	2.24			
125	5.39	4.53	4.64	4.38	4.01	3.76	2.68	1.65			
150	4.83	4.02	3.85	3.80	3.42	2.98	1.97	1.31			
200	3.45	2.21	2.63	2.70	2.45	2.00	1.21	0.79			
250	2.40	1.33	1.80	1.73	1.49	1.24	0.78	0.57			
300	1.57	1.14	1.25	1.12	1.01	0.86	0.63	0.48			
400	0.72	0.79	0.59	0.58	0.54	0.49	0.44	0.38			
500	0.41	0.36	0.38	0.35	0.34	0.34	0.30	0.30			

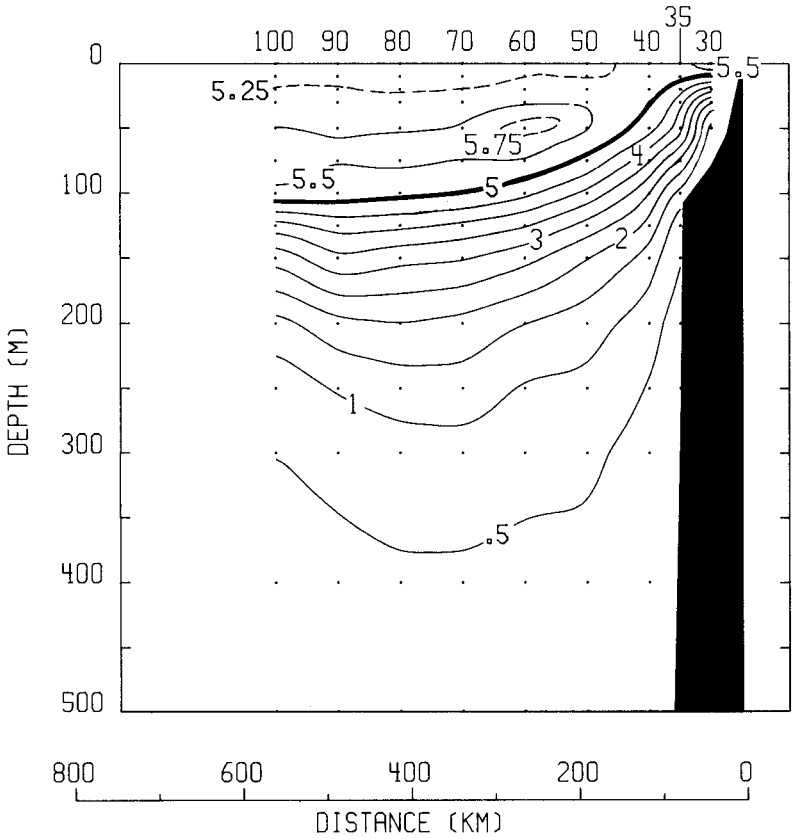
OXYGEN (ML/L) LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	5.11	5.20	5.04	5.04	5.21	5.21	5.37	5.35	5.69
10	5.16	5.15	5.08	5.06	5.22	5.22	5.42	5.09	5.48
20	5.25	5.28	5.23	5.26	5.31	5.36	5.18	4.91	3.31
30	5.36	5.38	5.34	5.38	5.48	5.50	5.03	4.32	2.02
50	5.53	5.48	5.48	5.52	5.80	5.64	4.83	3.88	0.66
75	5.56	5.53	5.63	5.54	5.59	4.97	3.63	2.19	
100	5.55	5.37	5.20	5.14	4.67	3.89	2.56	1.06	
125	3.66	4.21	4.13	3.85	3.54	2.78	1.92	0.44	
150	2.62	3.45	3.13	3.04	2.66	1.99	1.30	0.38	
200	1.28	1.85	1.99	1.83	1.47	1.23	0.71	0.21	
250	0.64	1.05	1.25	1.30	0.93	0.88	0.46	0.20	
300	0.50	0.64	0.78	0.80	0.66	0.60	0.29	0.20	
400	0.26	0.35	0.42	0.41	0.34	0.36	0.24	0.17	
500	0.16	0.27	0.31	0.23	0.26	0.26	0.21	0.23	

LINE 120



LINE 130



JULY
OXYGEN

PERCENT OXYGEN SATURATION LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	103.8	105.4	104.3	104.3	97.5	97.9	105.0	104.3	106.7	103.7	115.8
10	103.5	106.4	104.4	104.9	99.2	100.9	104.2	105.1	106.3	102.2	109.4
20	103.6	106.0	104.3	105.0	97.8	99.8	103.2	105.4	104.0	95.4	89.0
30	103.9	105.9	104.2	105.0	97.5	98.8	101.5	103.4	99.5	89.8	76.1
50	105.7	105.5	104.3	104.6	96.6	95.9	93.4	90.7	85.7	77.0	64.3
75	103.4	104.5	104.0	104.1	94.0	91.7	84.0	75.4	69.7	62.1	
100	101.0	102.6	101.6	99.1	86.6	82.0	74.8	64.3	55.6	48.6	
125	98.0	100.1	96.9	95.7	80.3	74.7	63.1	52.8	48.5	39.2	
150	92.7	95.6	89.7	85.3	70.3	65.6	50.4	46.0	44.3	33.7	
200	78.8	82.0	75.9	56.8	56.8	50.9	41.0	37.0	37.6	29.5	
250	73.2	72.4	65.2	46.2	48.9	41.8	34.8	32.7	30.6	24.2	
300	67.6	61.3	58.6	36.8	40.0	33.8	29.1	24.3	23.0	20.8	
400	48.5	39.0	32.9	24.8	22.5	19.7	16.6	13.1	13.6	14.8	
500	25.3	23.3	18.3	14.0	11.8	11.3	9.9	8.4	8.4	8.9	

PERCENT OXYGEN SATURATION LINE 070 JULY

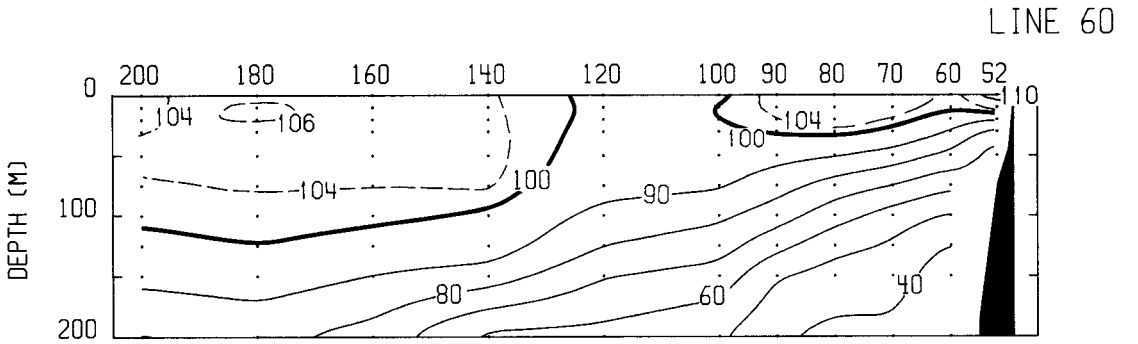
DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	104.3	98.5	99.7	99.2	103.0	102.6	101.4	102.1
10	103.6	100.4	100.6	99.6	100.8	102.6	102.2	101.0
20	103.9	99.6	101.1	99.4	100.8	101.9	100.7	95.9
30	104.7	99.7	100.9	99.0	99.3	100.6	98.8	89.9
50	106.6	101.1	99.5	98.3	96.5	90.2	88.7	72.5
75	103.5	100.7	91.7	91.9	87.5	73.5	70.3	55.9
100	100.7	95.7	79.3	80.9	74.1	59.2	57.8	46.5
125	97.5	85.0	72.0	68.7	62.7	51.2	48.0	43.0
150	94.4	72.2	63.8	59.3	50.5	43.0	41.5	39.4
200	82.5	54.8	49.0	49.6	40.7	34.1	33.3	32.0
250	74.4	45.0	43.4	40.3	32.9	28.1	27.7	25.5
300	68.3	36.9	35.0	31.8	26.1	21.5	21.7	19.8
400	40.8	21.7	20.0	17.7	14.9	12.9	12.9	12.5
500	18.3	12.5	10.2	9.7	8.6	8.2	8.3	8.7

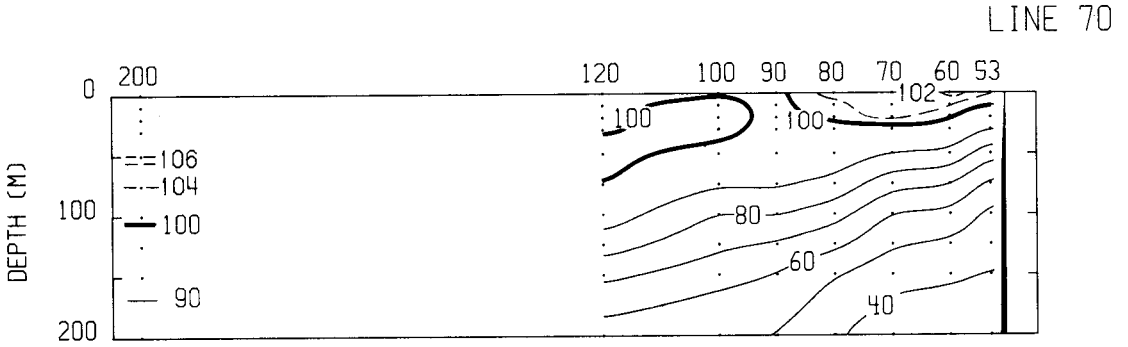
PERCENT OXYGEN SATURATION LINE 080 JULY

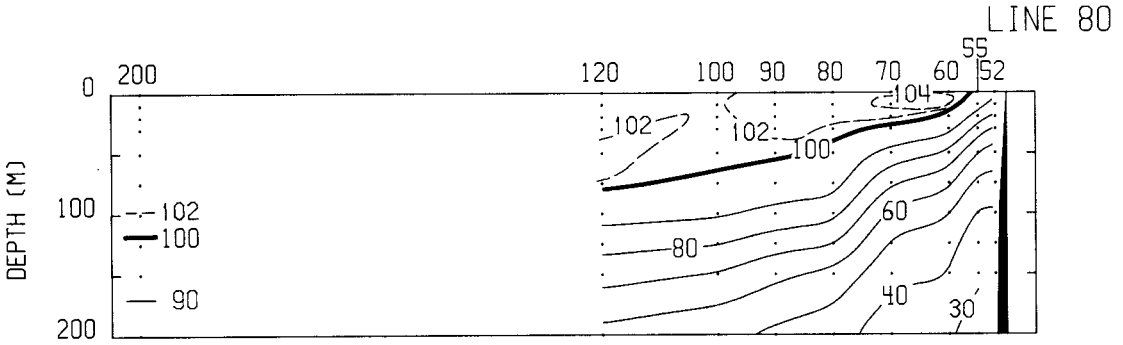
DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	102.9	100.5	100.8	103.0	102.3	103.6	103.6	101.2	89.2
10	103.4	100.8	102.0	102.5	102.2	104.2	104.2	98.6	85.7
20	103.7	101.0	101.6	103.0	102.1	103.5	100.0	86.4	75.3
30	103.6	101.3	101.1	102.7	101.8	99.9	95.0	77.2	65.4
50	103.7	102.9	101.4	101.5	99.4	86.7	78.9	58.4	54.4
75	103.8	101.9	99.0	96.0	95.2	70.8	62.8	44.7	47.7
100	101.8	94.2	91.8	87.5	83.7	57.3	51.3	37.3	38.9
125	99.4	83.4	80.6	74.1	71.1	47.9	43.8	33.0	36.0
150	94.4	74.0	69.2	62.3	56.8	42.4	40.6	29.7	32.9
200	83.4	56.7	51.5	47.6	43.7	33.6	31.2	24.5	
250	73.2	48.1	42.6	38.7	35.8	26.6	23.9	20.2	
300	64.4	41.3	34.5	30.8	28.0	21.1	18.4	17.2	
400	37.0	21.0	18.2	16.8	14.1	11.8	11.9	11.7	
500	16.7	10.7	10.7	8.4	9.0	6.7	6.8	8.4	

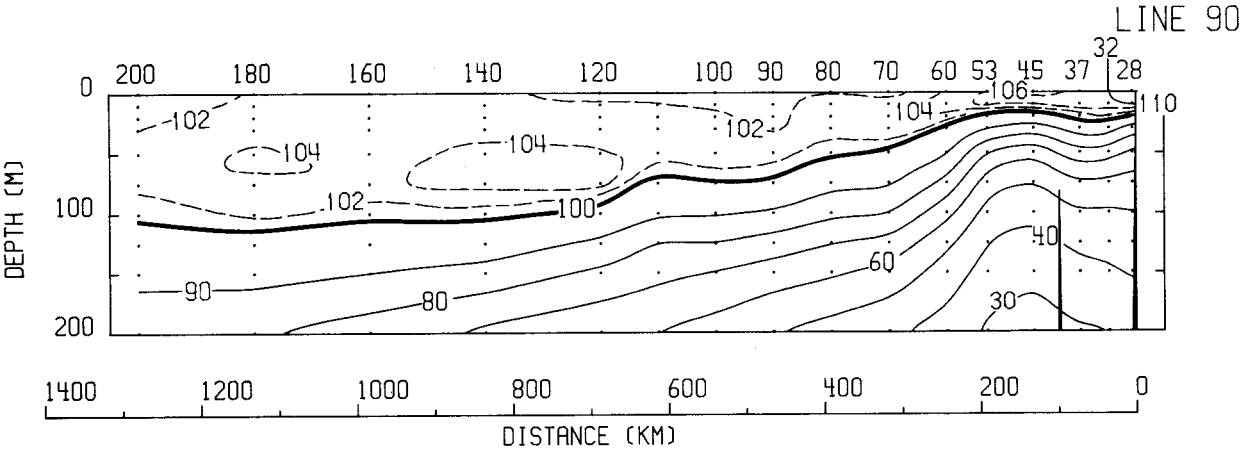
PERCENT OXYGEN SATURATION LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	101.3	102.1	101.8	102.7	100.6	99.6	99.0	100.4	102.2	101.2	104.2	106.2	105.1	107.7	107.4	117.6
10	101.6	103.2	103.0	103.3	102.8	102.1	101.9	101.3	102.1	103.3	105.1	106.6	107.0	109.4	109.5	115.1
20	101.8	103.2	102.8	103.2	103.1	100.2	102.7	101.1	102.5	103.8	103.5	99.5	96.5	103.2	105.1	98.4
30	102.0	103.1	102.6	103.2	103.2	100.5	103.3	101.2	102.3	103.5	100.0	90.3	84.6	96.0	98.1	82.5
50	103.2	104.2	102.9	104.5	104.2	102.8	103.4	103.3	101.4	100.3	92.4	67.6	61.5	77.1	75.6	65.8
75	102.8	103.9	103.9	104.3	104.3	98.8	100.9	100.6	93.1	92.2	77.6	52.9	49.1	58.1	57.1	55.7
100	100.7	102.2	101.0	101.6	98.9	92.0	91.3	88.9	82.4	80.9	63.4	45.0	42.1	49.5	48.6	49.9
125	97.8	98.5	96.7	95.8	88.0	78.5	79.6	75.2	69.8	66.6	52.1	39.1	36.5	41.8	43.4	45.9
150	93.3	93.2	90.1	86.2	77.7	72.6	69.3	65.1	61.5	56.9	45.3	35.5	31.9	37.7	38.1	41.6
200	81.6	80.5	74.9	67.5	61.5	59.4	55.8	49.8	46.1	41.2	35.7	27.6	25.0	29.0	29.1	33.4
250	70.2	67.3	62.8	57.8	49.2	50.4	46.6	38.0	37.0	32.6	27.4	20.1	19.1	22.5	23.3	
300	59.7	54.1	51.9	47.4	38.0	36.6	34.8	29.0	28.6	24.3	20.3	15.6	14.4	16.9	18.4	
400	33.4	30.1	26.0	23.3	21.1	14.7	17.1	15.2	15.5	12.6	10.4	8.5	9.0	9.9	12.2	
500	15.8	14.8	12.3	11.2	9.4	8.5	8.7	8.3	8.2	7.0	6.6	5.9	6.0	6.4	7.5	









JULY
PERCENT OXYGEN SATURATION

PERCENT OXYGEN SATURATION LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	97.4	100.1	101.1	101.9	100.5	100.9	102.4	103.9	111.8	114.3
10	97.1	99.8	100.7	101.6	100.7	101.4	103.6	104.5	114.2	103.0
20	97.5	100.1	100.7	101.6	101.3	102.7	101.8	105.7	107.3	80.6
30	97.7	100.2	100.4	101.7	101.1	103.3	100.2	105.6	98.6	76.0
50	100.4	100.9	100.2	102.1	101.8	102.4	94.9	96.8	85.3	64.6
75	100.1	100.8	102.0	100.2	96.0	95.1	77.1	77.8	70.2	53.2
100	96.8	97.0	97.4	92.1	84.4	82.8	64.5	64.5	58.4	49.4
125	90.8	89.2	86.2	80.3	71.7	69.4	50.6	54.2	50.0	41.8
150	82.2	78.9	75.3	68.9	61.3	58.6	43.0	47.2	45.4	35.6
200	65.1	60.3	55.8	52.9	47.4	44.0	32.9	37.0	33.6	28.8
250	49.5	47.2	44.7	39.8	35.0	33.7	25.3	27.5	21.7	21.2
300	37.2	36.8	33.2	29.5	26.3	25.6	17.4	19.5	15.5	15.6
400	19.4	17.9	17.3	14.8	13.4	12.2	9.6	10.8	9.6	
500	8.9	8.9	8.2	7.8	7.4	6.9	6.1	6.6	6.5	

PERCENT OXYGEN SATURATION LINE 110 JULY

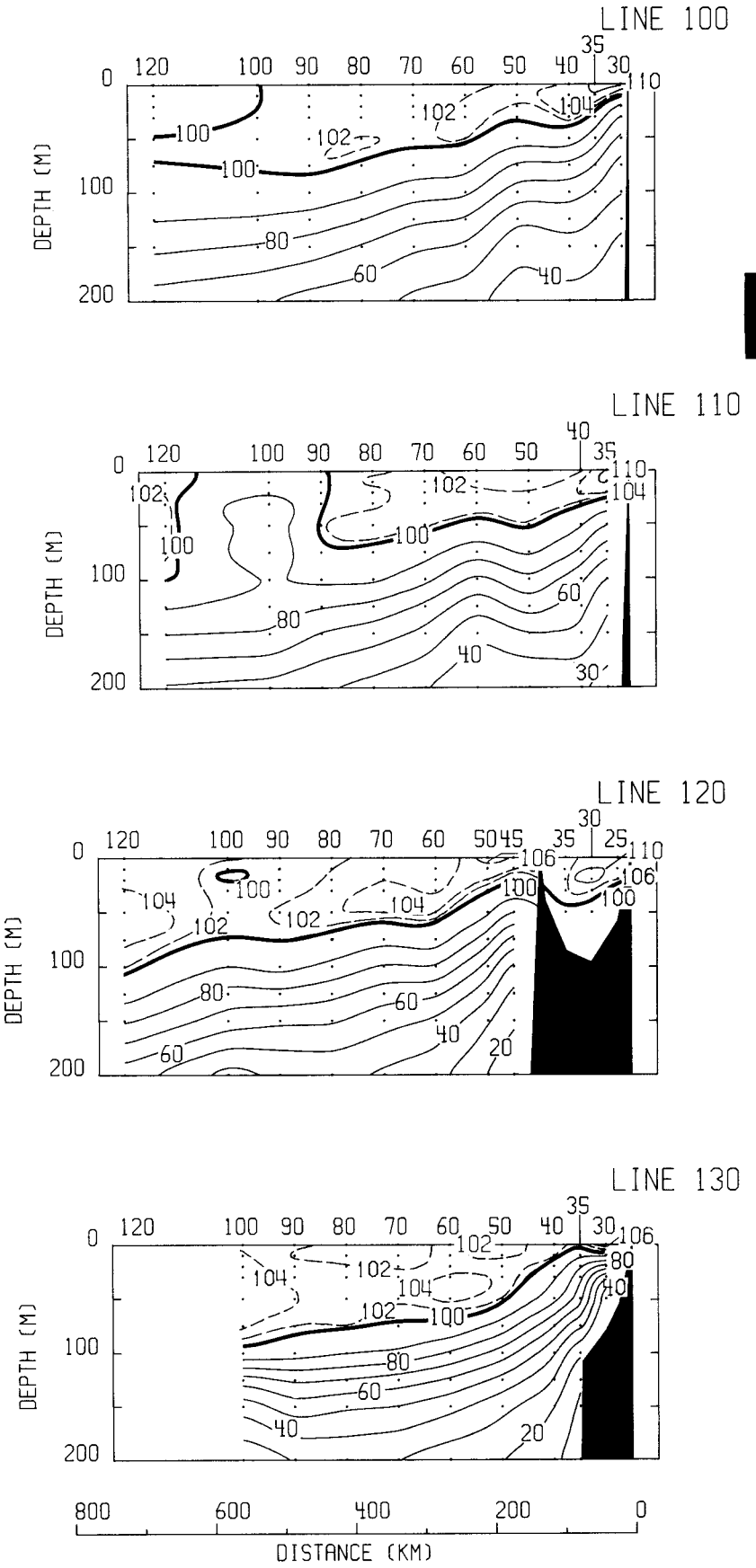
DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	101.0	97.8	100.2	101.8	102.3	100.4	101.7	101.9	110.0
10	101.4	95.8	99.1	102.2	102.3	100.8	101.2	103.7	111.5
20	101.6	95.7	100.0	101.3	102.7	102.6	102.1	104.2	105.1
30	102.5	75.5	100.0	101.8	103.3	103.4	103.1	102.9	95.2
50	102.9	84.7	102.0	102.9	103.3	98.1	102.3	92.3	77.8
75	102.2	80.3	100.0	99.3	94.0	83.7	93.5	79.6	60.9
100	101.4	90.5	92.5	92.8	83.5	66.2	79.2	62.5	46.8
125	91.1	84.9	80.7	77.2	67.3	52.3	65.7	54.0	38.9
150	80.3	79.6	69.0	64.5	57.4	41.0	49.8	48.6	35.1
200	57.8	55.8	50.1	46.0	39.8	30.0	28.8	31.4	24.3
250	46.6	42.7	39.0	36.9	27.5	19.1	23.1	22.8	15.6
300	28.7	29.8	29.3	26.5	21.1	13.8	17.4	15.8	13.3
400	10.8	14.0	14.7	12.4	11.1	8.3	9.5	8.6	9.1
500	4.8	7.6	7.5	6.9	6.8	5.5	6.1	5.6	6.0

PERCENT OXYGEN SATURATION LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	102.7	103.9	100.6	101.8	102.5	102.3	107.4	105.5	105.3	106.8	108.1
10	102.4	97.9	100.1	102.0	103.3	101.3	105.3	104.4	103.9	107.8	109.0
20	103.0	100.1	100.7	102.1	104.0	103.0	103.9	100.1	105.9	115.1	108.5
30	104.1	101.0	101.7	102.3	105.1	103.9	101.1	95.1	105.4	106.6	83.1
50	105.4	101.7	102.5	103.9	104.1	104.2	93.9	76.6	96.7	79.8	
75	105.2	100.5	101.2	98.8	93.3	96.7	75.6	53.5			
100	102.5	89.8	94.4	87.6	78.5	80.6	56.9	34.1			
125	95.4	75.5	77.3	72.6	64.2	62.2	43.0	24.5			
150	81.8	65.0	61.4	61.3	53.6	48.2	31.3	19.5			
200	54.6	34.9	40.7	41.9	37.8	32.6	19.1	11.7			
250	37.3	20.7	27.7	25.7	23.1	20.1	12.2	8.3			
300	24.0	17.4	19.1	16.4	15.6	13.7	9.8	7.3			
400	10.7	11.7	8.8	8.7	8.1	7.2	6.6	5.9			
500	6.0	5.2	5.4	5.2	5.0	4.9	4.5	4.5			

PERCENT OXYGEN SATURATION LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	103.6	103.8	100.2	99.9	102.2	101.3	103.4	100.2	108.5
10	104.1	101.9	100.8	100.2	102.3	101.1	103.3	89.9	102.4
20	105.3	103.0	102.1	101.8	102.7	103.1	96.9	81.7	57.8
30	106.1	103.8	102.4	102.4	104.2	103.6	91.9	75.5	34.5
50	106.1	104.1	102.5	102.7	106.5	103.2	85.7	66.7	11.3
75	104.3	101.9	102.2	99.9	99.0	86.9	61.2	36.6	
100	99.6	95.7	91.2	89.2	79.1	65.7	41.5	17.7	
125	62.1	70.9	68.9	64.3	57.7	46.1	30.5	7.4	
150	43.3	56.0	50.8	49.5	42.9	32.7	20.8	6.3	
200	20.7	29.4	31.6	29.1	23.1	19.8	11.9	3.4	
250	10.2	16.5	19.5	20.3	14.1	13.6	7.7	3.2	
300	7.9	9.9	12.0	12.4	10.1	9.0	4.7	3.2	
400	4.0	5.3	6.3	6.1	5.1	5.3	3.6	2.7	
500	2.4	4.0	4.5	3.5	3.7	4.0	3.0	3.5	



JULY
PERCENT OXYGEN SATURATION

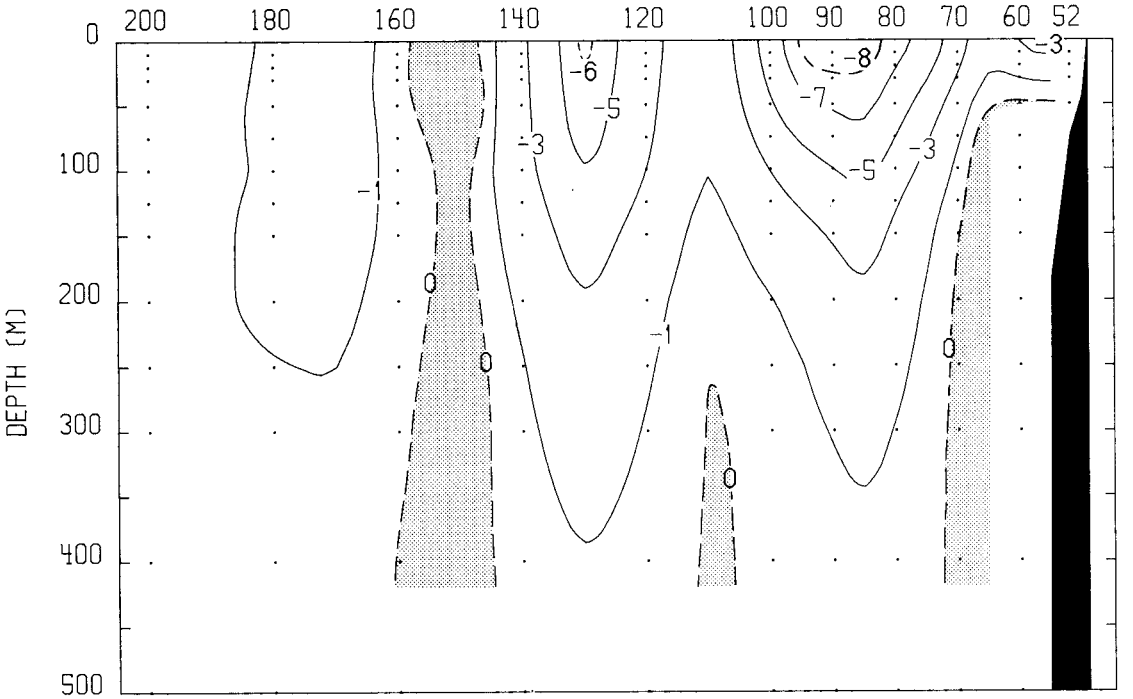
DYNAMIC HT ANOMALY (DYN. M) LINE 060 JULY

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	1.056	1.052	1.026	1.042	0.960	0.947	0.893	0.834	0.792	0.782	0.760
10	1.018	1.013	0.988	1.004	0.923	0.911	0.857	0.801	0.761	0.753	0.736
20	0.981	0.975	0.951	0.966	0.887	0.874	0.823	0.768	0.731	0.725	0.714
30	0.944	0.938	0.914	0.930	0.851	0.839	0.790	0.736	0.702	0.699	0.693
50	0.876	0.869	0.845	0.859	0.782	0.772	0.728	0.678	0.651	0.652	0.653
75	0.797	0.790	0.766	0.777	0.705	0.694	0.660	0.616	0.595	0.600	
100	0.723	0.716	0.694	0.700	0.635	0.625	0.598	0.561	0.545	0.552	
125	0.653	0.644	0.623	0.629	0.571	0.564	0.543	0.512	0.502	0.508	
150	0.588	0.578	0.558	0.563	0.513	0.509	0.493	0.468	0.459	0.467	
200	0.473	0.463	0.446	0.452	0.414	0.414	0.405	0.387	0.381	0.389	
250	0.377	0.366	0.353	0.360	0.330	0.332	0.326	0.312	0.309	0.316	
300	0.291	0.281	0.272	0.279	0.255	0.257	0.252	0.243	0.240	0.247	
400	0.135	0.131	0.127	0.131	0.120	0.121	0.119	0.115	0.114	0.118	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

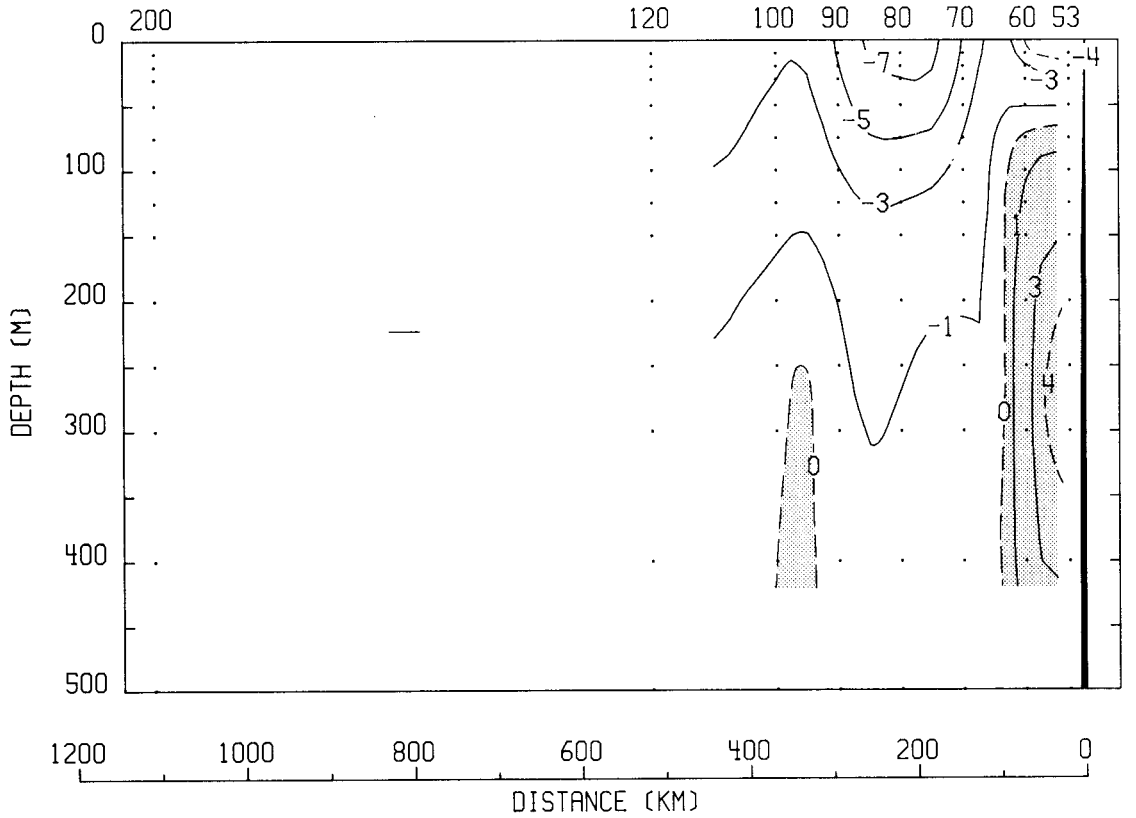
DYNAMIC HT ANOMALY (DYN. M) LINE 070 JULY

DEPTH	70200	70120	70110	70100	70090	70080	70070	70060	70053
0	1.082	0.994		0.947	0.928	0.880	0.830	0.818	0.795
10	1.045	0.957		0.910	0.892	0.847	0.798	0.787	0.767
20	1.008	0.920		0.874	0.857	0.813	0.766	0.756	0.740
30	0.972	0.884		0.838	0.822	0.780	0.735	0.727	0.715
50	0.904	0.814		0.770	0.756	0.718	0.679	0.673	0.668
75	0.824	0.734		0.693	0.681	0.649	0.618	0.613	0.615
100	0.749	0.661		0.624	0.613	0.588	0.565	0.560	0.567
125	0.676	0.592		0.562	0.554	0.533	0.517	0.511	0.522
150	0.606	0.531		0.506	0.501	0.485	0.472	0.466	0.479
200	0.481	0.426		0.411	0.410	0.397	0.391	0.384	0.402
250	0.377	0.339		0.329	0.330	0.320	0.316	0.309	0.328
300	0.288	0.262		0.254	0.256	0.248	0.246	0.238	0.258
400	0.133	0.123		0.120	0.121	0.117	0.117	0.112	0.127
500	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000

LINE 60



LINE 70



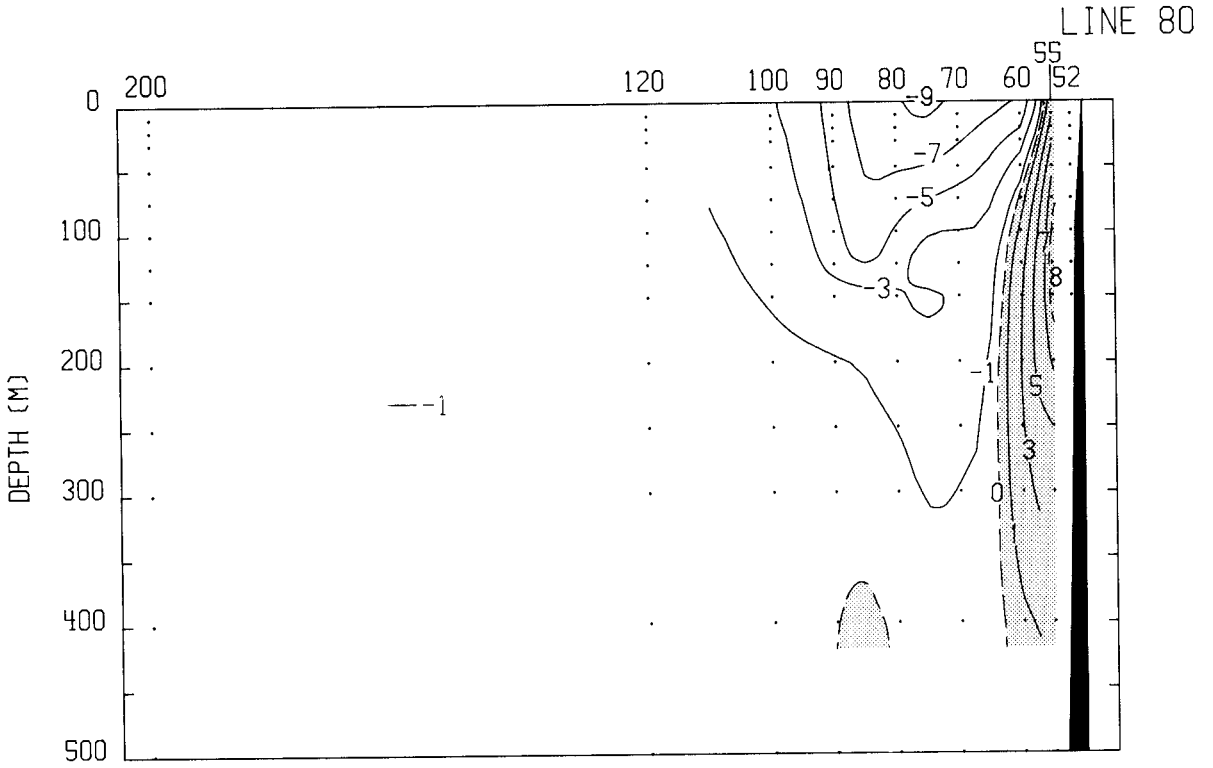
JULY
GEOSTROPHIC FLOW (CM/S)

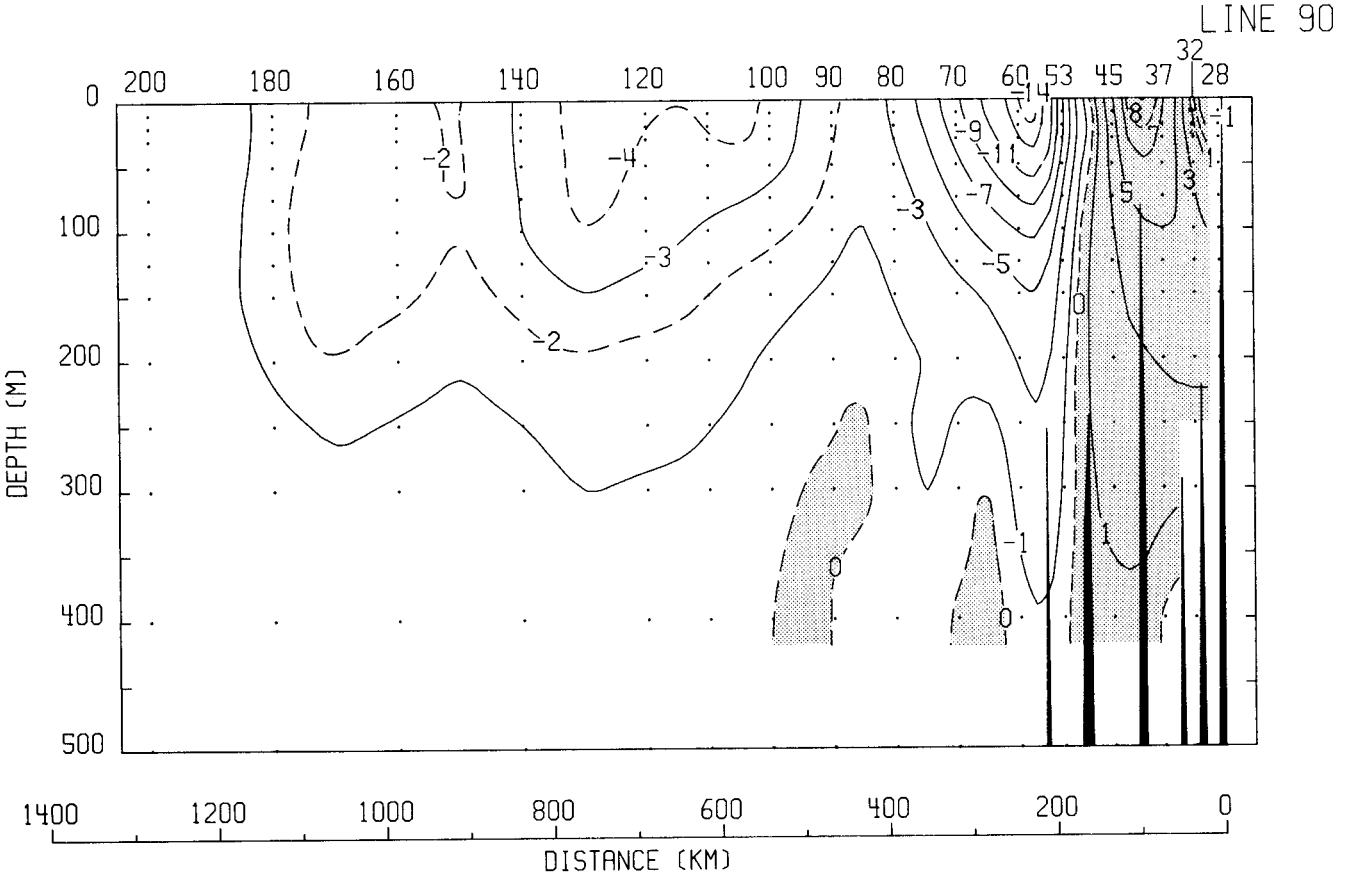
DYNAMIC HT ANOMALY (DYN. M) LINE 080 JULY

DEPTH	80200	80120	80100	80090	80080	80070	80060	80055	80052
0	1.089	0.986	0.969	0.948	0.899	0.841	0.794	0.774	0.808
10	1.052	0.949	0.932	0.912	0.864	0.808	0.765	0.748	0.783
20	1.015	0.912	0.896	0.876	0.829	0.776	0.736	0.723	0.759
30	0.979	0.875	0.860	0.841	0.795	0.745	0.708	0.699	0.736
50	0.910	0.805	0.792	0.773	0.729	0.687	0.658	0.656	0.693
75	0.829	0.723	0.712	0.695	0.654	0.624	0.602	0.607	0.644
100	0.752	0.648	0.639	0.625	0.587	0.569	0.552	0.562	0.595
125	0.678	0.581	0.574	0.563	0.528	0.519	0.506	0.520	0.549
150	0.606	0.522	0.516	0.508	0.496	0.474	0.463	0.479	0.506
200	0.477	0.420	0.416	0.412	0.405	0.392	0.384	0.400	0.421
250	0.370	0.335	0.332	0.329	0.326	0.317	0.311	0.325	0.335
300	0.279	0.258	0.256	0.255	0.254	0.247	0.242	0.254	
400	0.122	0.120	0.120	0.120	0.120	0.118	0.115	0.120	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 090 JULY

DEPTH	90200	90180	90160	90140	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	1.113	1.109	1.084	1.064	1.016	0.994	0.969	0.951	0.943	0.911	0.843	0.781	0.783	0.828	0.845	0.832
10	1.075	1.072	1.046	1.026	0.978	0.956	0.931	0.915	0.907	0.876	0.810	0.750	0.747	0.790	0.806	0.795
20	1.037	1.036	1.008	0.988	0.940	0.919	0.895	0.878	0.871	0.842	0.779	0.719	0.716	0.756	0.772	0.764
30	1.001	0.999	0.971	0.951	0.903	0.882	0.859	0.842	0.835	0.808	0.749	0.691	0.688	0.726	0.742	0.737
50	0.929	0.928	0.898	0.878	0.830	0.810	0.789	0.774	0.767	0.744	0.692	0.641	0.642	0.674	0.691	0.690
75	0.846	0.844	0.811	0.792	0.746	0.726	0.709	0.696	0.690	0.671	0.628	0.588	0.591	0.617	0.635	0.636
100	0.767	0.764	0.733	0.712	0.668	0.650	0.637	0.626	0.621	0.606	0.572	0.540	0.545	0.567	0.583	0.588
125	0.691	0.687	0.657	0.637	0.598	0.583	0.572	0.563	0.560	0.547	0.522	0.497	0.502	0.521	0.536	0.545
150	0.618	0.613	0.585	0.569	0.536	0.523	0.514	0.508	0.505	0.496	0.477	0.455	0.461	0.478	0.492	0.499
200	0.487	0.483	0.463	0.452	0.430	0.421	0.415	0.412	0.411	0.405	0.395	0.379	0.385	0.398	0.409	0.417
250	0.379	0.375	0.363	0.357	0.342	0.335	0.331	0.329	0.330	0.322	0.320	0.308	0.313	0.324	0.331	0.337
300	0.287	0.285	0.278	0.274	0.263	0.258	0.255	0.255	0.256	0.249	0.251	0.241	0.245	0.254	0.257	
400	0.132	0.131	0.129	0.128	0.123	0.121	0.119	0.121	0.119	0.117	0.120	0.116	0.120	0.122	0.120	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





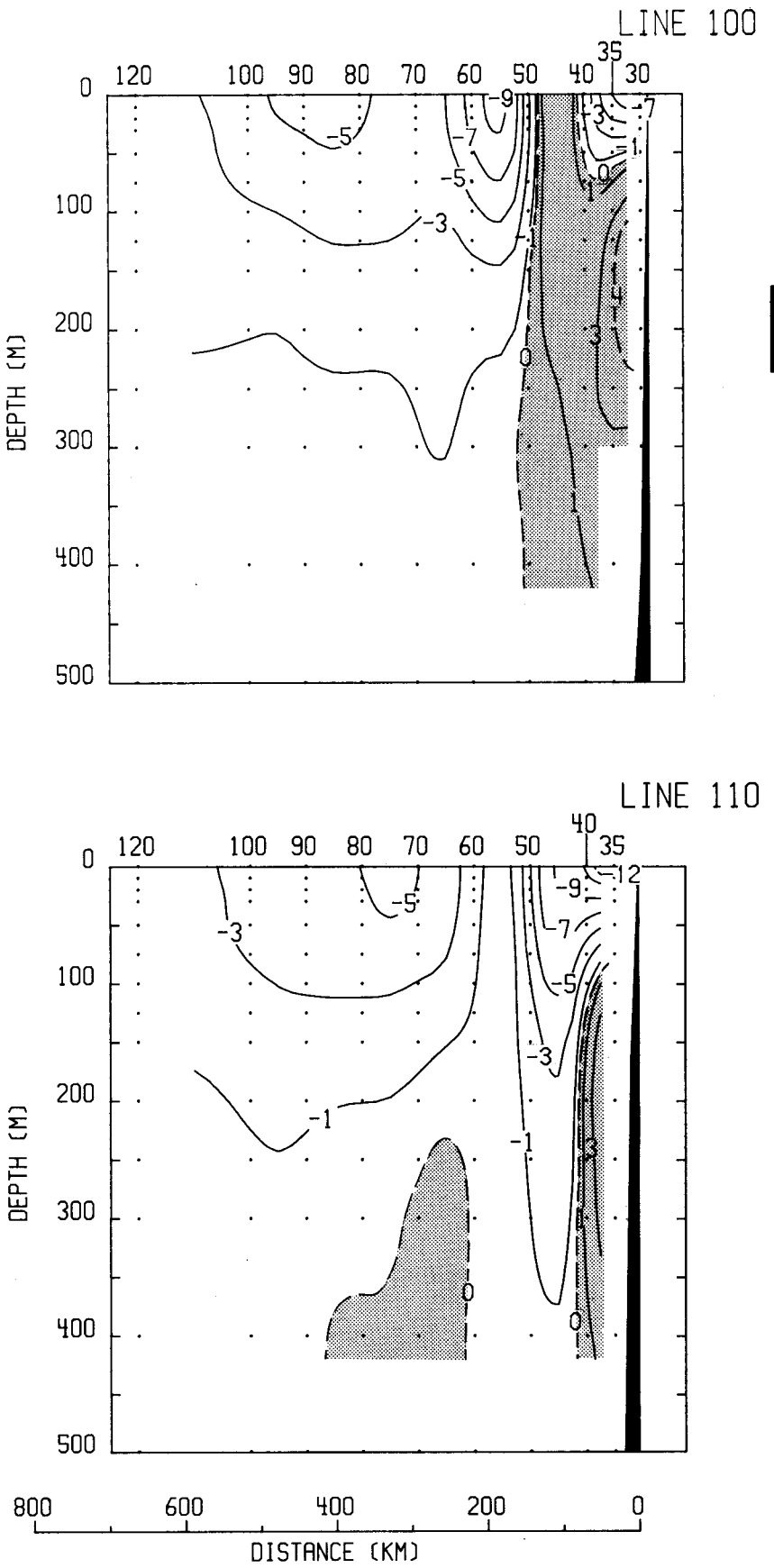
JULY
GEOSTROPHIC FLOW (CM/S)

DYNAMIC HT ANOMALY (DYN. M) LINE 100 JULY

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	1.056	1.027	0.999	0.969	0.943	0.919	0.865	0.880	0.865	0.839
10	1.016	0.989	0.961	0.931	0.906	0.882	0.829	0.843	0.829	0.806
20	0.977	0.951	0.924	0.894	0.869	0.846	0.793	0.806	0.794	0.777
30	0.938	0.913	0.888	0.859	0.834	0.810	0.760	0.772	0.762	0.750
50	0.866	0.840	0.817	0.790	0.765	0.744	0.698	0.710	0.704	0.702
75	0.780	0.754	0.734	0.710	0.687	0.669	0.631	0.643	0.640	0.649
100	0.699	0.674	0.658	0.637	0.617	0.602	0.572	0.584	0.588	0.599
125	0.625	0.601	0.589	0.572	0.555	0.543	0.520	0.532	0.538	0.552
150	0.557	0.536	0.527	0.514	0.501	0.491	0.476	0.485	0.492	0.507
200	0.441	0.427	0.422	0.415	0.408	0.399	0.391	0.399	0.408	0.421
250	0.346	0.339	0.335	0.331	0.326	0.319	0.315	0.321	0.330	0.341
300	0.265	0.261	0.258	0.255	0.252	0.245	0.245	0.249	0.257	0.265
400	0.123	0.122	0.120	0.120	0.118	0.117	0.116	0.118	0.122	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 110 JULY

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	1.067	1.042	1.020	0.997	0.968	0.945	0.943	0.893	0.857
10	1.026	1.001	0.980	0.958	0.929	0.906	0.905	0.856	0.823
20	0.985	0.961	0.941	0.919	0.891	0.869	0.867	0.819	0.791
30	0.947	0.923	0.903	0.882	0.854	0.832	0.831	0.784	0.761
50	0.873	0.849	0.829	0.809	0.783	0.763	0.762	0.719	0.707
75	0.785	0.762	0.744	0.725	0.704	0.686	0.685	0.649	0.647
100	0.702	0.681	0.666	0.649	0.632	0.619	0.617	0.588	0.594
125	0.626	0.609	0.595	0.582	0.568	0.560	0.557	0.535	0.546
150	0.557	0.544	0.533	0.523	0.513	0.507	0.505	0.486	0.501
200	0.440	0.434	0.426	0.421	0.416	0.415	0.413	0.400	0.417
250	0.346	0.343	0.338	0.335	0.333	0.335	0.333	0.322	0.336
300	0.265	0.263	0.260	0.258	0.258	0.260	0.258	0.249	0.262
400	0.123	0.123	0.120	0.121	0.121	0.124	0.121	0.117	0.122
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



JULY
GEOSTROPHIC FLOW (CM/S)

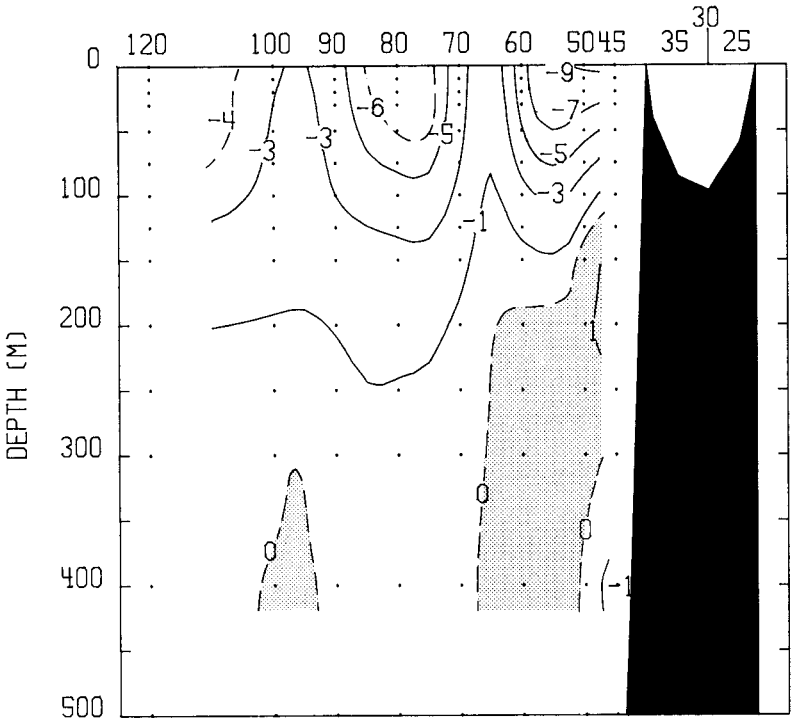
DYNAMIC HT ANOMALY (DYN. M) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045
0	1.070	1.026	1.014	0.984	0.949	0.946	0.901	0.877
10	1.027	0.984	0.973	0.943	0.909	0.906	0.862	0.840
20	0.986	0.943	0.932	0.903	0.869	0.866	0.824	0.804
30	0.946	0.904	0.894	0.865	0.831	0.829	0.788	0.771
50	0.871	0.830	0.820	0.793	0.761	0.759	0.724	0.713
75	0.783	0.744	0.734	0.711	0.683	0.681	0.656	0.650
100	0.700	0.666	0.656	0.637	0.615	0.613	0.597	0.596
125	0.622	0.595	0.586	0.572	0.555	0.554	0.545	0.547
150	0.553	0.533	0.526	0.515	0.502	0.502	0.498	0.501
200	0.437	0.428	0.424	0.417	0.411	0.410	0.412	0.415
250	0.344	0.340	0.338	0.334	0.330	0.330	0.334	0.336
300	0.264	0.261	0.262	0.258	0.255	0.256	0.261	0.260
400	0.123	0.122	0.123	0.121	0.120	0.121	0.124	0.121
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

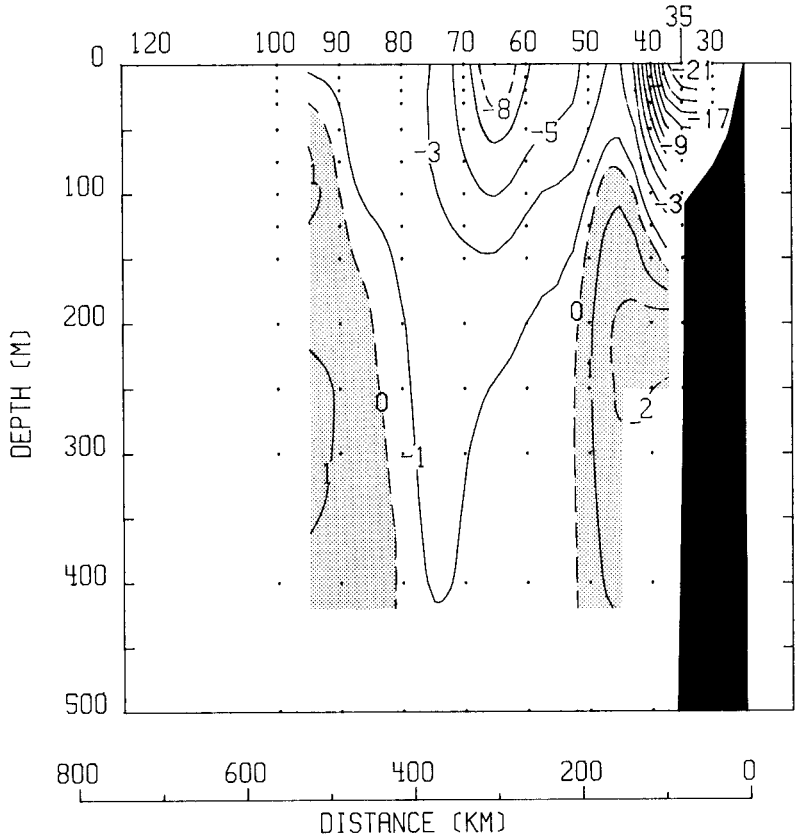
DYNAMIC HT ANOMALY (DYN. M) LINE 130 JULY

DEPTH	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	1.040	1.034	1.027	1.014	0.969	0.941	0.927	0.870	0.816
10	0.995	0.991	0.983	0.970	0.927	0.899	0.887	0.835	0.780
20	0.951	0.950	0.941	0.928	0.886	0.859	0.848	0.800	0.749
30	0.910	0.911	0.901	0.888	0.847	0.821	0.812	0.769	0.723
50	0.832	0.837	0.826	0.813	0.775	0.752	0.746	0.712	0.678
75	0.743	0.749	0.739	0.726	0.694	0.677	0.676	0.653	
100	0.660	0.668	0.661	0.648	0.623	0.610	0.614	0.601	
125	0.590	0.595	0.592	0.580	0.561	0.553	0.559	0.553	
150	0.529	0.533	0.532	0.521	0.508	0.502	0.510	0.508	
200	0.427	0.430	0.431	0.422	0.415	0.412	0.422	0.428	
250	0.337	0.344	0.345	0.337	0.333	0.331	0.341	0.346	
300	0.260	0.266	0.268	0.261	0.258	0.257	0.266		
400	0.122	0.126	0.129	0.123	0.122	0.121	0.127		
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 120



LINE 130



JULY
GEOSTROPHIC FLOW (CM/S)

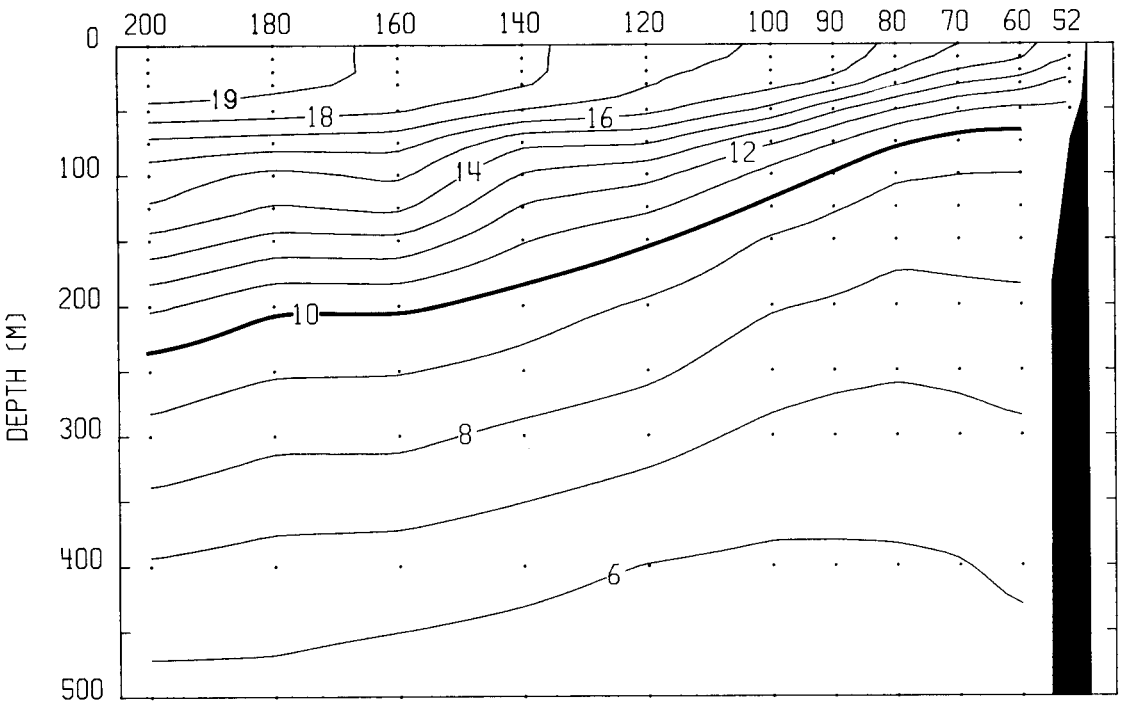
TEMPERATURE (DEG. C) LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	19.84	19.27	18.87	18.25	17.26	16.95	16.60	15.84	15.18	14.46	13.44
10	19.73	19.25	18.86	18.22	17.16	16.92	16.53	15.69	14.69	14.33	13.11
20	19.72	19.28	18.86	18.23	17.14	16.83	16.28	15.07	14.04	13.61	12.22
30	19.73	19.29	18.87	18.23	17.14	16.43	15.96	14.35	13.04	12.56	11.56
50	18.73	18.51	18.21	17.11	16.45	14.93	13.12	11.88	11.06	10.65	10.69
75	16.63	16.44	16.33	14.05	14.09	11.92	10.96	10.03	9.55	9.59	
100	15.55	14.57	15.21	12.88	12.31	10.67	9.93	9.12	8.99	8.97	
125	14.99	13.97	14.32	11.84	11.24	9.72	9.06	8.61	8.66	8.60	
150	13.72	12.60	12.74	11.07	10.15	8.85	8.60	8.24	8.28	8.32	
200	11.16	10.06	10.11	9.45	8.84	8.07	7.91	7.70	7.80	7.86	
250	9.53	9.08	9.05	8.70	8.20	7.43	7.23	7.09	7.19	7.38	
300	8.74	8.21	8.23	7.75	7.35	6.77	6.60	6.59	6.68	6.86	
400	6.88	6.61	6.54	6.28	5.96	5.81	5.85	5.88	5.95	6.20	
500	5.65	5.72	5.47	5.38	5.26	5.20	5.32	5.30	5.42	5.60	

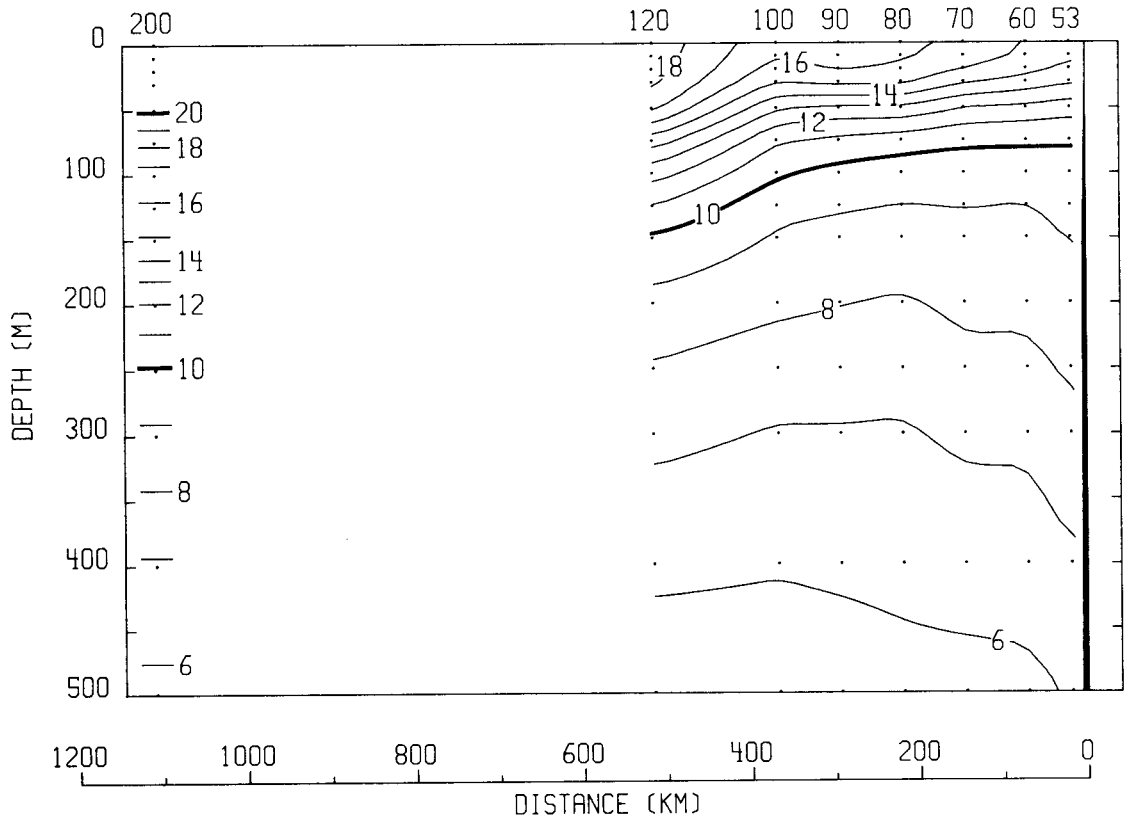
TEMPERATURE (DEG. C) LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	20.20	18.70	16.46	16.67	16.28	15.83	14.98	14.49
10	20.19	18.55	15.94	16.63	16.21	15.71	14.89	14.18
20	20.23	18.53	15.70	16.06	15.87	15.03	14.43	13.76
30	20.26	18.32	15.08	15.44	15.45	14.25	13.75	13.21
50	20.25	17.46	13.07	12.71	12.78	11.91	11.74	11.42
75	18.14	14.51	11.01	10.67	10.44	10.13	10.07	10.08
100	16.50	12.45	10.10	9.70	9.49	9.37	9.35	9.61
125	15.91	10.96	9.25	9.13	8.96	9.03	8.96	9.33
150	14.92	9.89	8.90	8.66	8.53	8.75	8.68	9.08
200	11.87	8.68	8.21	8.04	7.91	8.21	8.22	8.68
250	9.86	7.91	7.46	7.44	7.32	7.78	7.74	8.19
300	8.81	7.26	6.92	6.93	6.90	7.20	7.21	7.81
400	6.87	6.18	6.07	6.15	6.24	6.40	6.40	6.88
500	5.72	5.46	5.50	5.55	5.70	5.69	5.78	6.10

LINE 60



LINE 70



OCTOBER
TEMPERATURE

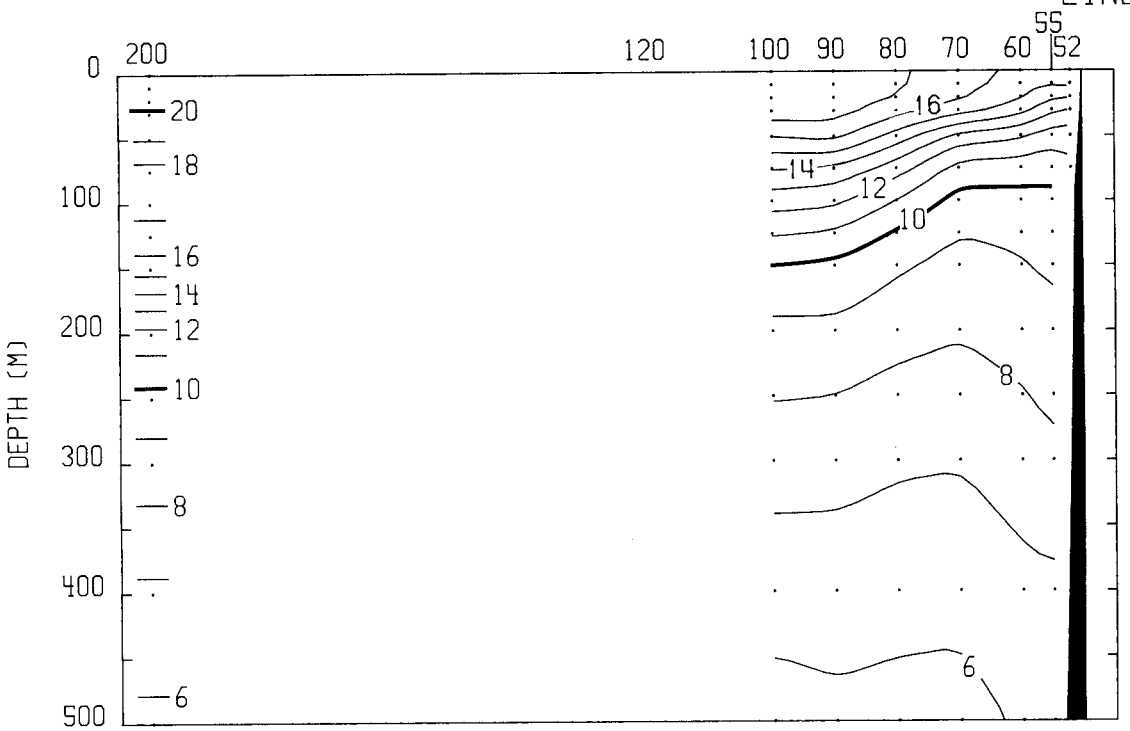
TEMPERATURE (DEG. C) LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	20.35	17.95	17.71	17.16	16.56	15.81	15.67	16.07
10	20.22	17.84	17.65	17.15	16.45	15.56	15.03	15.62
20	20.15	17.83	17.58	17.06	16.22	15.25	14.22	14.05
30	20.01	17.67	17.46	16.57	15.68	14.62	13.21	12.73
50	19.08	15.97	16.42	14.59	12.59	12.10	11.35	11.51
75	17.56	14.02	13.75	12.44	10.51	10.49	10.31	10.86
100	17.25	12.47	12.28	10.95	9.63	9.67	9.79	
125	16.74	11.10	10.83	9.82	9.02	9.24	9.45	
150	15.43	9.93	9.78	9.14	8.64	8.91	9.21	
200	11.62	8.74	8.78	8.35	8.09	8.43	8.70	
250	9.66	8.06	8.00	7.66	7.56	7.92	8.25	
300	8.56	7.44	7.36	7.13	7.07	7.52	7.82	
400	6.79	6.36	6.43	6.33	6.24	6.71	6.79	
500	5.78	5.64	5.78	5.69	5.69	6.11	6.12	

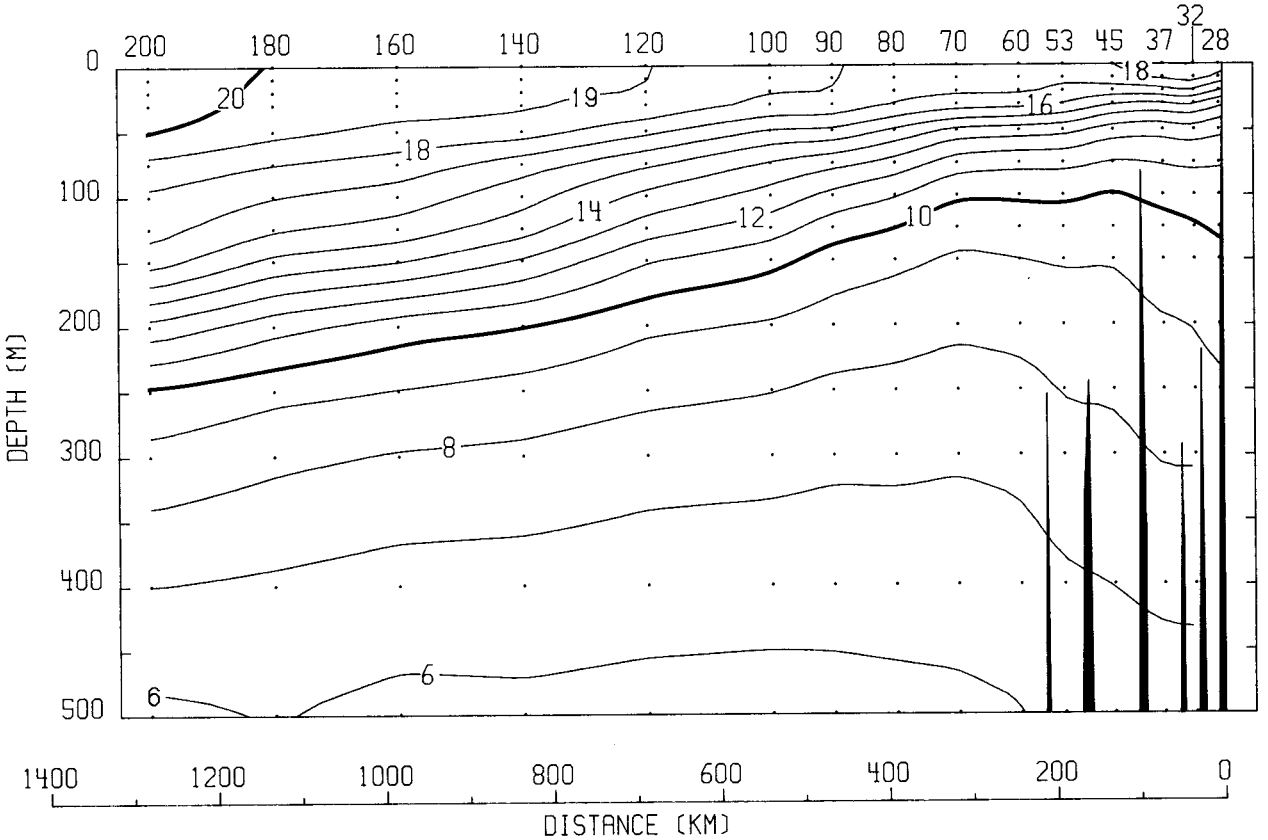
TEMPERATURE (DEG. C) LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	20.35	20.01	19.65	19.23	19.08	18.23	18.15	17.49	17.47	17.59	17.31	18.06	18.94	19.19	18.57
10	20.35	19.88	19.62	19.16	19.04	18.10	18.09	17.43	17.37	17.48	17.19	17.83	18.51	19.13	17.87
20	20.35	19.88	19.62	19.11	19.00	18.05	18.02	17.39	17.21	17.28	16.87	16.64	16.67	17.41	15.66
30	20.36	19.89	19.43	19.18	18.82	17.93	17.88	17.19	16.81	16.66	16.16	15.02	14.61	15.27	13.81
50	20.17	19.33	18.69	18.57	17.31	15.88	15.87	14.77	13.55	13.39	13.26	12.36	12.19	12.59	12.07
75	18.70	17.95	17.56	16.39	15.11	13.80	13.24	12.58	11.42	11.19	11.23	10.81	10.97	11.19	11.02
100	17.81	17.03	16.53	15.39	13.70	12.62	11.70	11.06	10.03	10.11	10.18	9.84	10.22	10.34	10.48
125	17.40	16.20	15.63	14.49	12.51	11.51	10.40	9.96	9.29	9.42	9.51	9.39	9.73	9.88	10.16
150	16.54	14.72	14.10	12.87	11.03	10.28	9.51	9.21	8.85	8.97	9.10	9.03	9.41	9.51	9.88
200	12.63	11.31	10.39	9.95	9.15	8.87	8.55	8.37	8.15	8.30	8.50	8.58	8.94	8.98	9.38
250	9.81	9.25	8.94	8.63	8.26	8.03	7.80	7.75	7.62	7.69	8.09	8.12	8.56	8.56	8.92
300	8.69	8.21	7.90	7.78	7.43	7.35	7.20	7.22	7.12	7.23	7.68	7.68	8.09	8.08	
400	7.00	6.82	6.56	6.51	6.40	6.33	6.30	6.35	6.38	6.54	6.88	7.01	7.22	7.26	
500	5.79	6.02	5.72	5.79	5.68	5.66	5.71	5.76	5.80	5.95	6.28	6.38	6.49	6.50	

LINE 80



LINE 90



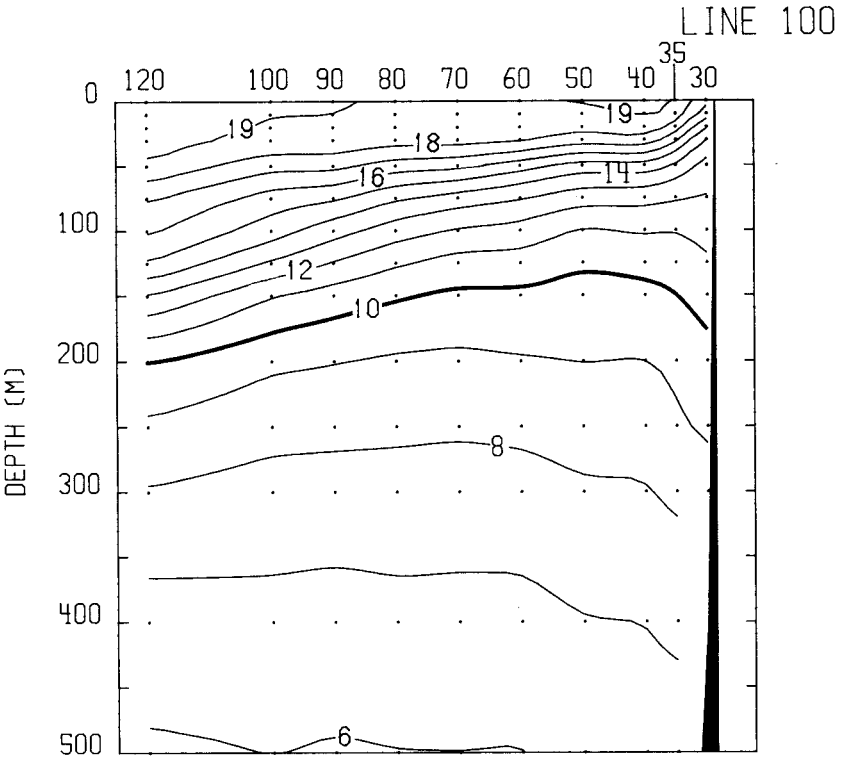
OCTOBER
TEMPERATURE

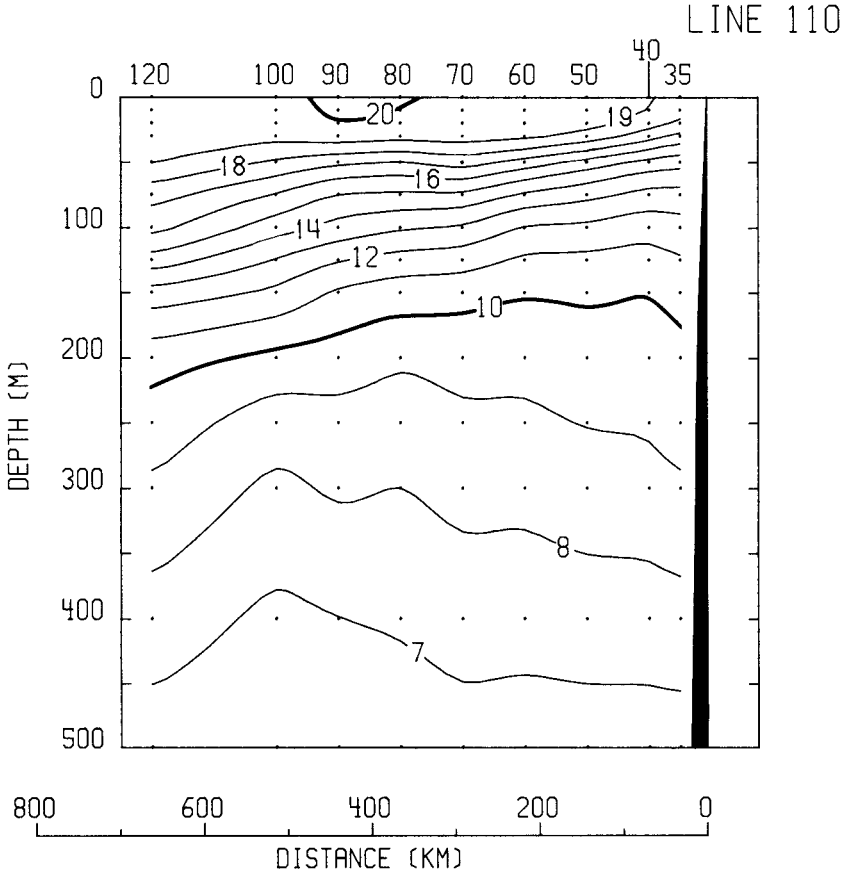
TEMPERATURE (DEG. C) LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	19.35	19.09	19.10	18.93	19.02	18.93	19.06	19.22	19.24	17.32
10	19.30	19.01	18.99	18.86	18.98	18.85	18.97	19.13	19.19	16.23
20	19.36	18.95	18.93	18.79	18.91	18.72	18.42	18.76	17.98	14.42
30	19.50	18.80	18.75	18.59	18.57	18.43	17.63	18.02	16.31	13.40
50	18.89	17.30	17.37	16.44	16.30	15.34	14.33	14.51	13.81	12.37
75	17.02	15.45	15.10	14.05	13.43	12.94	12.37	12.30	12.03	11.89
100	16.19	14.53	13.39	12.46	11.86	11.66	10.81	11.10	10.98	11.41
125	15.05	12.86	11.90	11.09	10.54	10.51	10.07	10.33	10.24	10.98
150	12.93	10.95	10.49	10.07	9.77	9.86	9.64	9.75	9.94	10.40
200	9.96	9.17	9.01	8.83	8.78	8.91	9.02	8.95	9.20	9.80
250	8.82	8.31	8.24	8.19	8.14	8.22	8.43	8.42	8.82	9.20
300	7.92	7.59	7.59	7.59	7.52	7.58	7.87	7.90	8.23	8.67
400	6.53	6.67	6.56	6.69	6.68	6.66	6.96	7.00	7.31	
500	5.87	5.99	5.92	5.96	5.97	5.95	6.25	6.32	6.41	

TEMPERATURE (DEG. C) LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	19.83	19.87	20.22	20.06	19.93	19.80	19.85	19.20	18.59
10	19.82	19.67	20.12	19.99	19.84	19.78	19.80	19.01	18.41
20	19.83	19.64	20.05	19.95	19.79	19.74	19.47	18.68	17.86
30	19.83	19.39	19.81	19.59	19.66	19.55	18.95	17.52	16.52
50	19.18	17.85	17.11	16.76	17.49	16.47	15.36	14.46	14.21
75	17.32	15.85	14.76	14.75	14.72	13.67	13.21	12.54	12.55
100	16.44	14.48	13.69	13.10	12.84	11.80	11.74	11.30	11.65
125	14.64	12.86	11.99	11.52	11.40	10.76	10.71	10.55	10.94
150	12.55	11.80	10.77	10.44	10.35	10.03	10.19	9.97	10.38
200	10.39	9.66	9.54	9.11	9.31	9.23	9.46	9.39	9.77
250	9.57	8.43	8.62	8.46	8.83	8.84	9.05	9.10	9.43
300	8.85	7.74	8.17	7.96	8.33	8.27	8.58	8.64	8.90
400	7.58	6.73	6.98	7.12	7.43	7.38	7.46	7.47	7.62
500	6.49	6.07	6.23	6.36	6.60	6.49	6.56	6.54	6.53





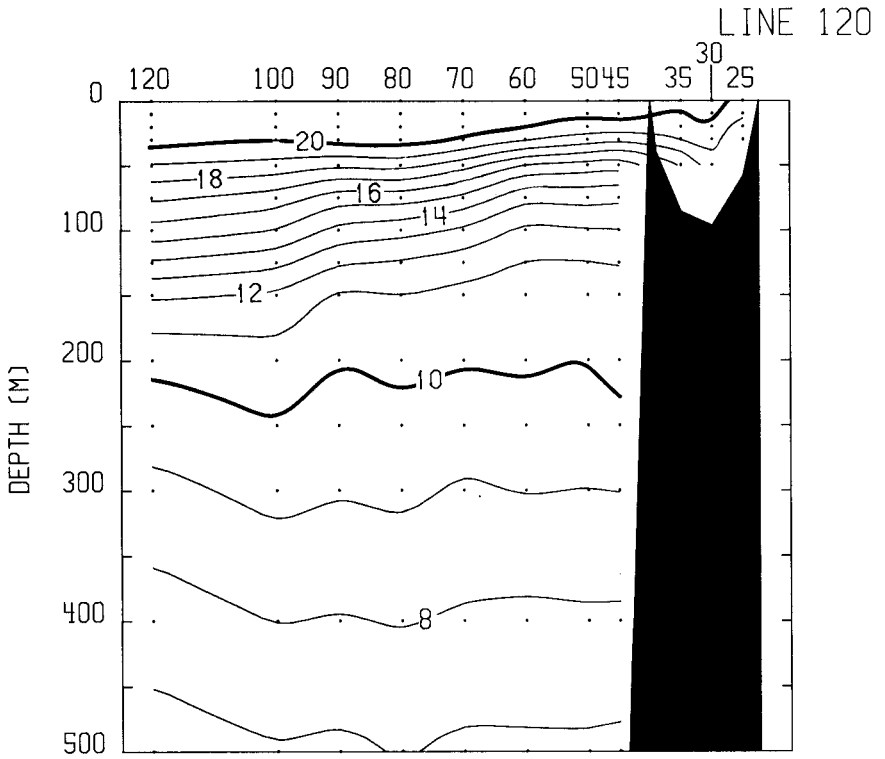
OCTOBER
TEMPERATURE

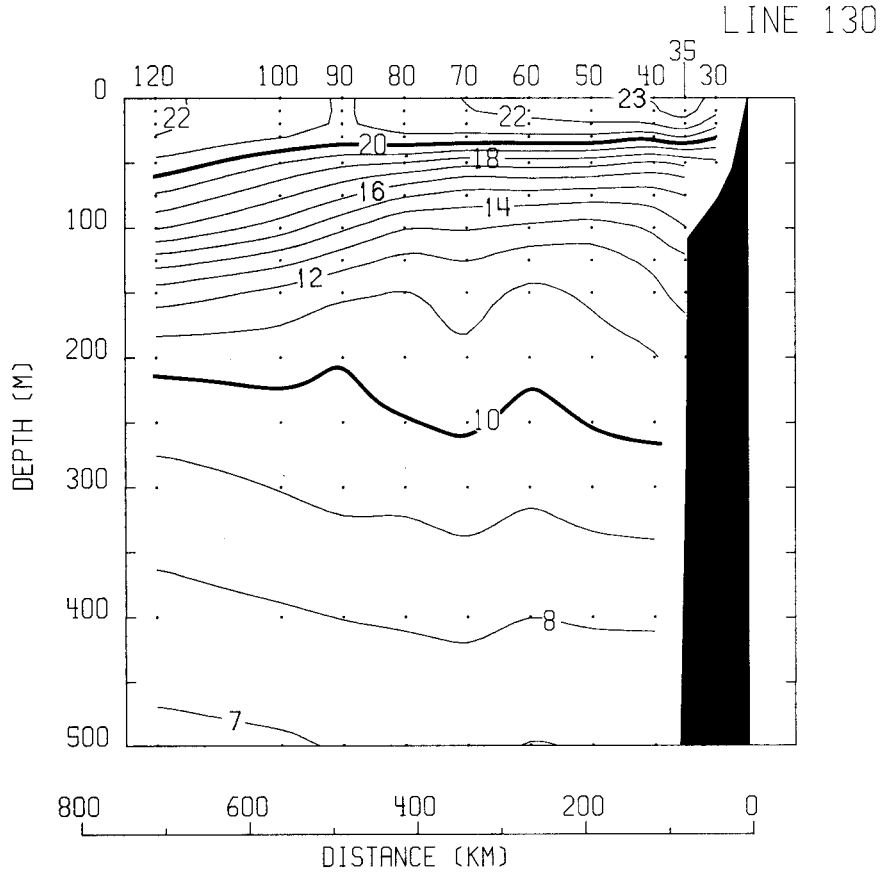
TEMPERATURE (DEG. C) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	20.56	20.32	21.00	20.90	20.45	20.59	20.35	20.60	20.22	20.46	19.68
10	20.51	20.32	20.98	20.87	20.46	20.53	20.23	20.53	19.79	20.36	19.40
20	20.50	20.33	20.90	20.80	20.43	20.08	19.62	19.79	19.68	20.24	18.12
30	20.50	20.12	20.47	20.65	20.13	19.28	18.63	18.13	19.16	19.95	16.61
50	18.88	18.61	18.09	18.43	17.31	15.68	15.39	15.14	16.52	18.47	
75	17.12	16.45	15.29	15.34	14.69	13.10	13.35	13.13			
100	15.64	15.02	13.67	13.36	12.80	11.68	11.91	11.95			
125	13.88	13.26	12.02	11.81	11.46	10.88	10.87	11.01			
150	12.08	11.80	10.75	10.96	10.71	10.51	10.46	10.63			
200	10.19	10.57	9.99	10.29	10.08	10.12	9.98	10.39			
250	9.46	9.95	9.52	9.68	9.39	9.69	9.51	9.78			
300	8.70	9.30	9.06	9.22	8.87	9.05	8.97	9.02			
400	7.48	8.04	7.92	8.07	7.85	7.75	7.85	7.82			
500	6.51	6.92	6.79	7.03	6.78	6.83	6.83	6.75			

TEMPERATURE (DEG. C) LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	22.14	21.55	20.86	21.55	22.06	22.48	22.82	23.06	23.73	22.63
10	22.15	21.56	20.84	21.54	22.02	22.30	22.61	22.95	23.72	22.30
20	22.18	21.55	20.92	21.51	21.76	21.88	22.06	22.10	23.55	20.97
30	22.20	21.32	20.73	21.24	21.08	21.06	21.04	20.43	21.39	19.93
50	20.75	18.88	18.10	17.85	17.01	17.33	17.23	16.51	16.91	17.43
75	18.91	17.19	16.21	14.96	14.42	14.52	14.31	14.36	14.91	
100	17.22	15.54	14.14	12.90	13.09	12.73	12.45	13.07	14.19	
125	14.45	13.32	12.34	11.61	12.03	11.38	11.45	12.16	12.82	
150	12.54	11.61	11.11	10.87	11.33	10.76	11.13	11.69	12.44	
200	10.25	10.41	9.97	10.63	10.91	10.21	10.62	10.89	11.41	
250	9.37	9.57	9.72	9.95	10.17	9.64	10.06	10.20		
300	8.62	9.04	9.30	9.24	9.52	9.15	9.48	9.60		
400	7.62	7.87	8.02	8.11	8.24	7.98	8.11	8.13		
500	6.71	6.87	7.03	7.08	7.16	6.92	7.02	6.98		





OCTOBER
TEMPERATURE

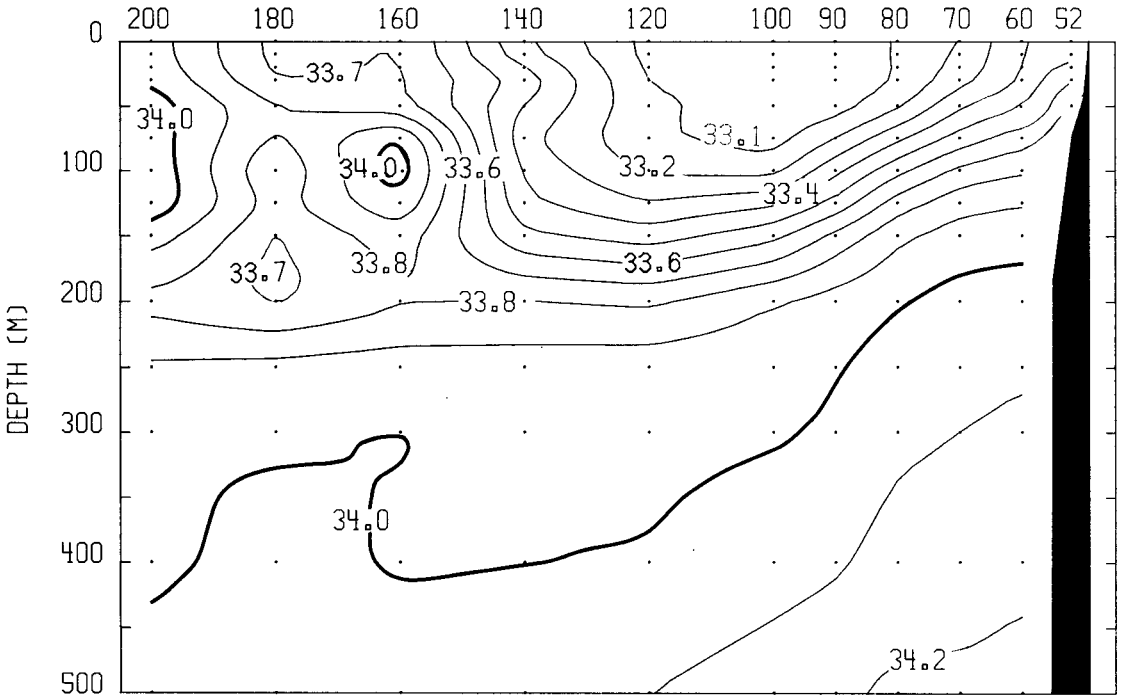
SALINITY (PPT) LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	33.95	33.67	33.71	33.32	33.07	33.06	33.00	33.11	33.18	33.40	33.45
10	33.95	33.67	33.70	33.32	33.07	33.08	33.00	33.12	33.22	33.40	33.45
20	33.97	33.68	33.71	33.42	33.08	33.09	33.03	33.11	33.24	33.40	33.54
30	33.99	33.69	33.72	33.47	33.09	33.09	33.04	33.10	33.26	33.40	33.62
50	34.06	33.82	33.72	33.39	33.13	33.04	33.05	33.17	33.39	33.50	33.69
75	34.04	33.79	34.03	33.32	33.11	33.05	33.20	33.38	33.54	33.66	
100	34.07	33.70	34.07	33.38	33.18	33.16	33.38	33.57	33.73	33.79	
125	34.08	33.77	33.99	33.42	33.30	33.38	33.52	33.76	33.87	33.90	
150	33.95	33.70	33.85	33.52	33.45	33.57	33.74	33.88	33.95	33.97	
200	33.77	33.68	33.79	33.81	33.79	33.90	33.94	34.00	34.04	34.05	
250	33.92	33.94	33.95	33.95	33.96	33.98	33.99	34.04	34.07	34.09	
300	34.00	33.99	34.00	33.98	33.97	33.99	34.01	34.08	34.10	34.12	
400	33.99	34.02	33.99	34.00	34.01	34.06	34.09	34.15	34.15	34.18	
500	34.02	34.10	34.04	34.07	34.10	34.15	34.19	34.22	34.22	34.23	

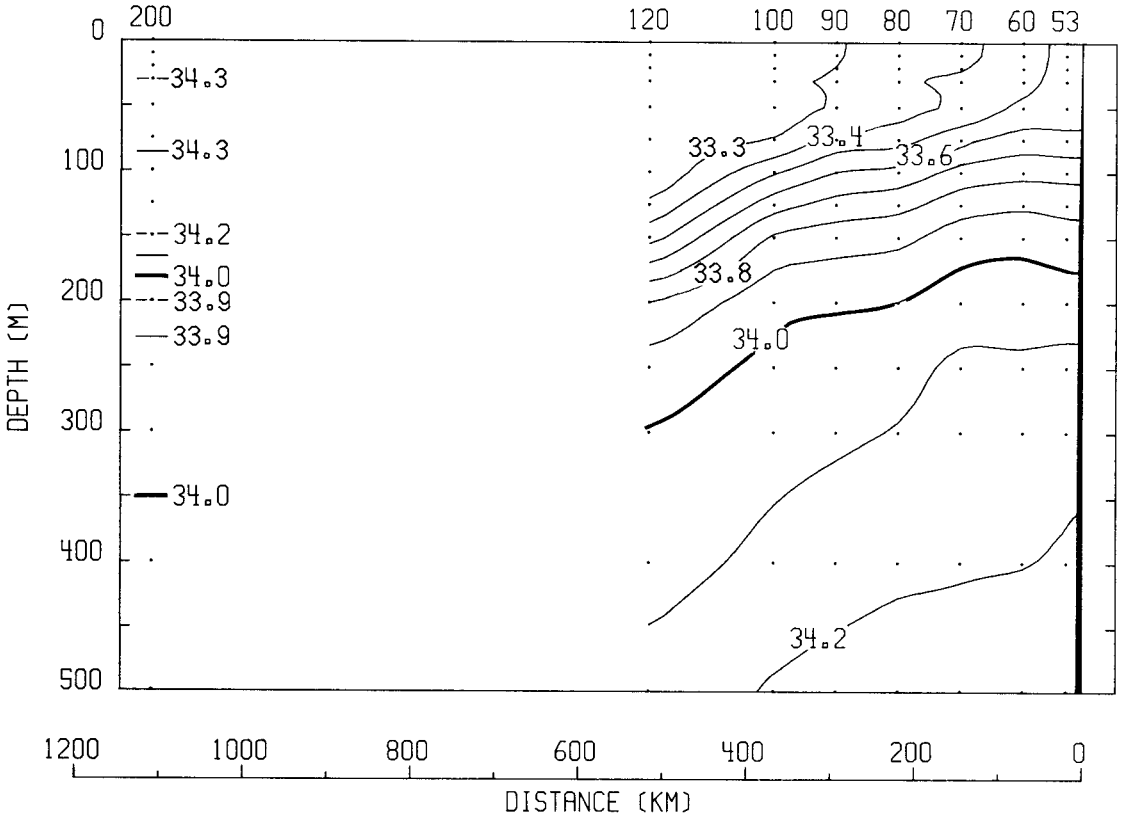
SALINITY (PPT) LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	34.24	33.29	33.20	33.29	33.38	33.37	33.45	33.54
10	34.24	33.30	33.21	33.28	33.38	33.36	33.46	33.53
20	34.27	33.30	33.28	33.30	33.40	33.39	33.46	33.54
30	34.29	33.30	33.29	33.32	33.39	33.43	33.47	33.55
50	34.40	33.26	33.24	33.29	33.35	33.40	33.53	33.54
75	34.32	33.25	33.28	33.45	33.45	33.59	33.66	33.63
100	34.27	33.20	33.50	33.61	33.63	33.75	33.78	33.77
125	34.30	33.31	33.66	33.74	33.77	33.87	33.89	33.87
150	34.20	33.45	33.83	33.86	33.87	33.96	33.98	33.94
200	33.88	33.80	33.98	33.99	34.00	34.06	34.06	34.05
250	33.91	33.94	34.03	34.06	34.07	34.13	34.11	34.13
300	34.00	34.00	34.07	34.09	34.10	34.14	34.14	34.19
400	34.00	34.06	34.13	34.15	34.18	34.19	34.20	34.21
500	34.07	34.14	34.21	34.24	34.26	34.24	34.25	34.25

LINE 60



LINE 70



OCTOBER
SALINITY

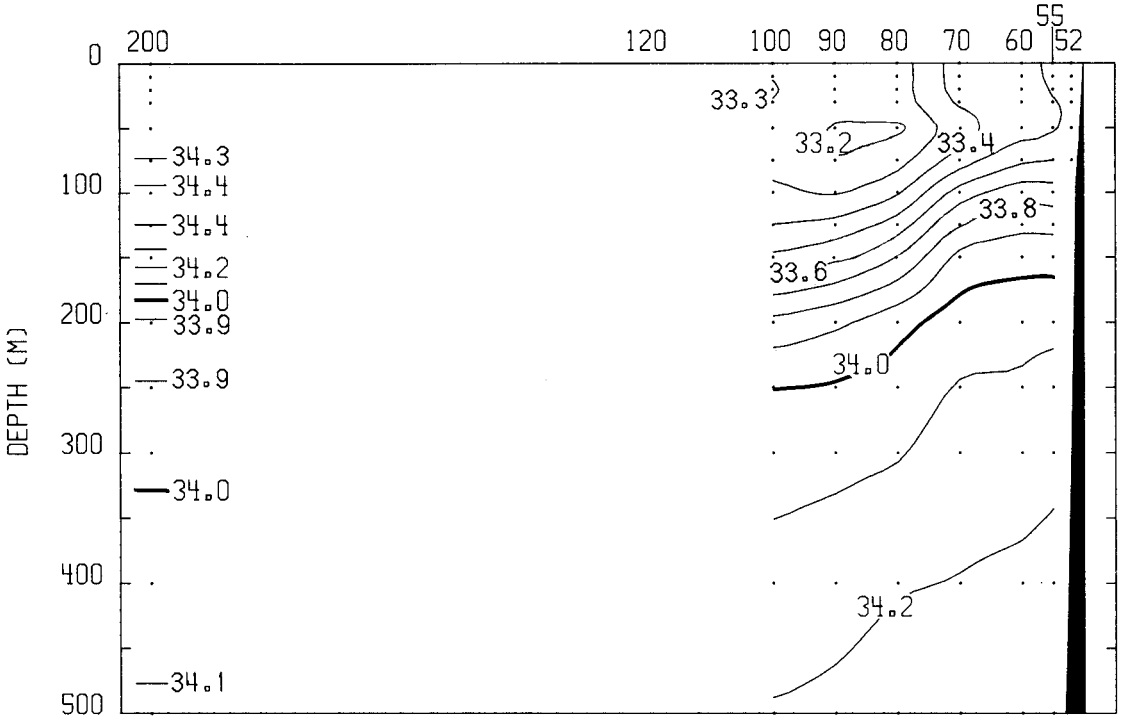
SALINITY (PPT) LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	34.21	33.29	33.21	33.25	33.45	33.46	33.52	33.56
10	34.23	33.30	33.21	33.24	33.45	33.46	33.53	33.53
20	34.27	33.33	33.21	33.25	33.45	33.44	33.51	33.52
30	34.28	33.31	33.21	33.26	33.43	33.46	33.50	33.52
50	34.28	33.23	33.19	33.18	33.34	33.46	33.44	33.55
75	34.28	33.28	33.18	33.24	33.44	33.58	33.60	33.66
100	34.45	33.32	33.28	33.37	33.66	33.77	33.74	
125	34.42	33.39	33.43	33.54	33.81	33.88	33.87	
150	34.26	33.51	33.57	33.70	33.95	33.97	33.97	
200	33.86	33.83	33.89	33.97	34.06	34.07	34.07	
250	33.90	34.00	34.01	34.05	34.11	34.11	34.15	
300	33.99	34.07	34.08	34.09	34.15	34.15	34.19	
400	34.03	34.13	34.15	34.19	34.20	34.22	34.23	
500	34.12	34.21	34.23	34.26	34.27	34.27	34.27	

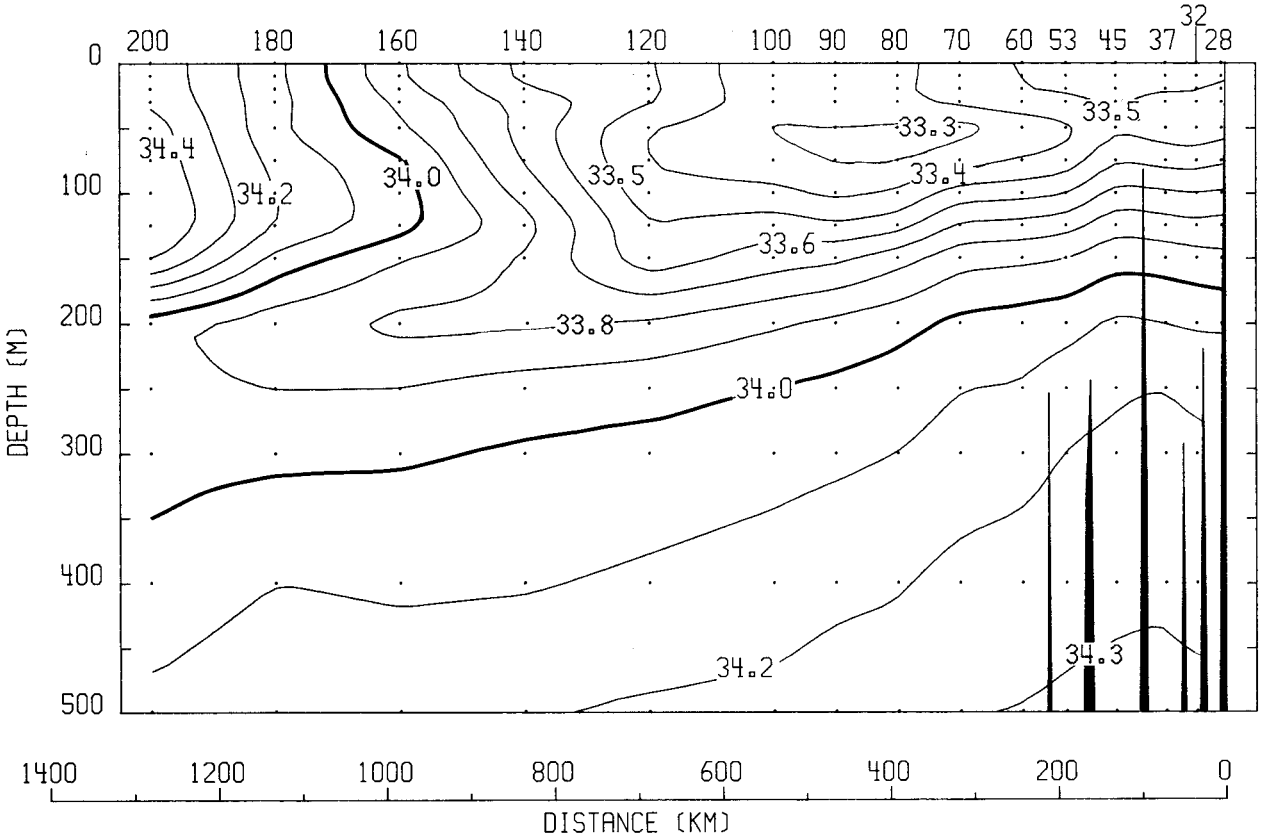
SALINITY (PPT) LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	34.37	34.13	33.82	33.57	33.51	33.32	33.37	33.37	33.46	33.51	33.54	33.60	33.60	33.61	33.55
10	34.37	34.13	33.81	33.57	33.52	33.31	33.37	33.37	33.46	33.49	33.53	33.59	33.58	33.61	33.53
20	34.38	34.13	33.84	33.60	33.52	33.32	33.38	33.38	33.47	33.51	33.52	33.56	33.51	33.53	33.43
30	34.39	34.14	33.88	33.68	33.52	33.34	33.39	33.39	33.43	33.48	33.47	33.51	33.43	33.42	33.41
50	34.46	34.12	33.92	33.66	33.39	33.30	33.30	33.28	33.27	33.32	33.37	33.48	33.45	33.41	33.46
75	34.47	34.17	34.02	33.69	33.39	33.34	33.29	33.30	33.34	33.40	33.44	33.60	33.56	33.55	33.59
100	34.50	34.20	34.04	33.77	33.44	33.43	33.37	33.41	33.56	33.57	33.60	33.74	33.72	33.70	33.72
125	34.52	34.21	34.05	33.85	33.51	33.56	33.51	33.55	33.72	33.73	33.77	33.87	33.85	33.82	33.85
150	34.43	34.07	33.90	33.79	33.54	33.65	33.68	33.76	33.87	33.88	33.90	33.97	33.97	33.96	33.92
200	33.93	33.84	33.77	33.78	33.82	33.89	33.93	33.97	34.03	34.05	34.06	34.12	34.10	34.09	34.09
250	33.93	33.90	33.90	33.95	33.97	34.00	34.02	34.05	34.10	34.11	34.16	34.19	34.20	34.18	34.17
300	33.97	33.98	33.99	34.01	34.03	34.06	34.08	34.10	34.14	34.16	34.21	34.22	34.24	34.22	
400	34.03	34.10	34.08	34.09	34.12	34.15	34.17	34.19	34.23	34.25	34.26	34.28	34.29	34.27	
500	34.13	34.19	34.17	34.20	34.21	34.23	34.26	34.26	34.30	34.30	34.32	34.33	34.33	34.32	

LINE 80



LINE 90



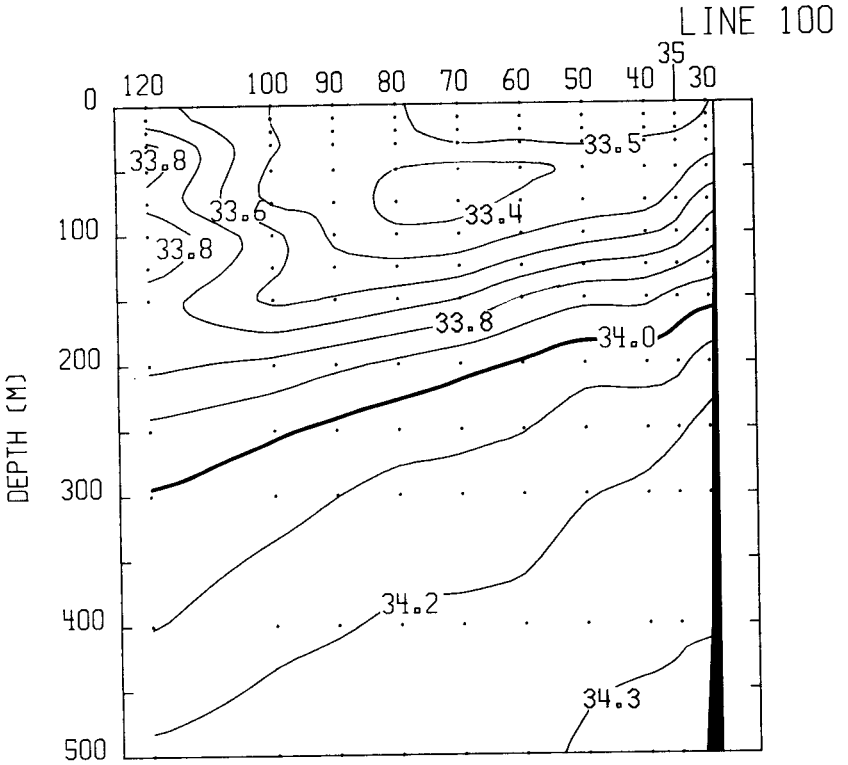
OCTOBER
SALINITY

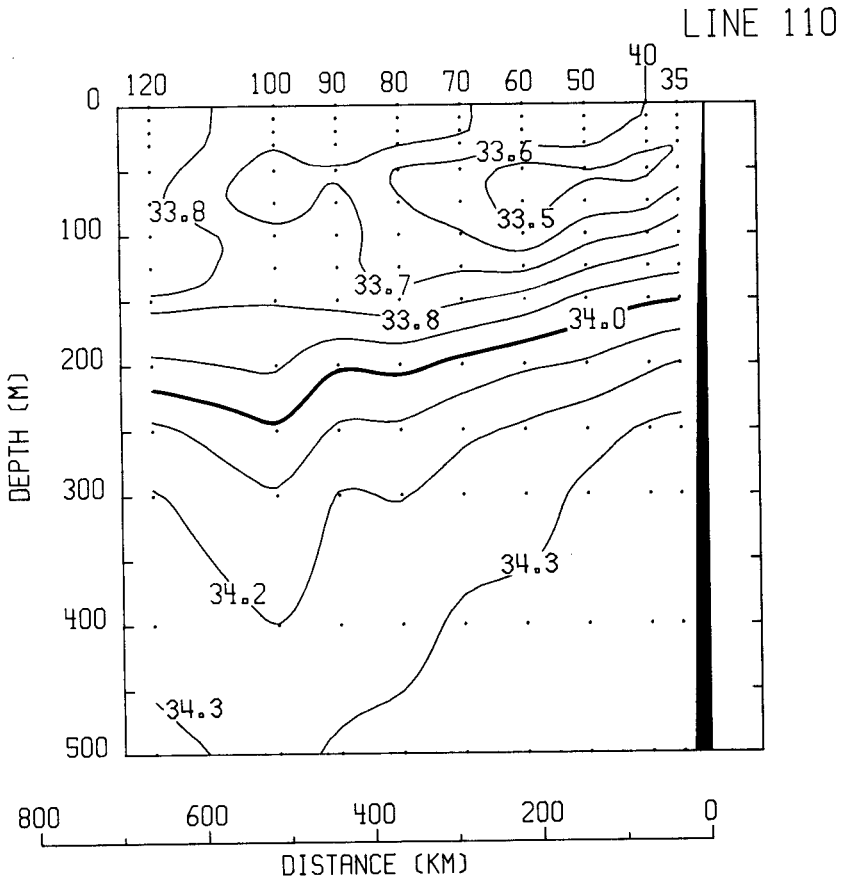
SALINITY (PPT) LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	33.64	33.50	33.48	33.49	33.54	33.52	33.60	33.55	33.61	33.50
10	33.64	33.50	33.46	33.49	33.54	33.52	33.59	33.54	33.61	33.47
20	33.73	33.49	33.47	33.48	33.55	33.52	33.55	33.53	33.53	33.44
30	33.87	33.51	33.48	33.47	33.51	33.51	33.52	33.50	33.44	33.45
50	33.86	33.47	33.48	33.39	33.38	33.38	33.42	33.38	33.43	33.54
75	33.76	33.45	33.49	33.33	33.36	33.41	33.44	33.44	33.53	33.67
100	33.92	33.65	33.47	33.42	33.43	33.49	33.54	33.58	33.61	33.77
125	33.86	33.62	33.53	33.52	33.54	33.64	33.72	33.73	33.78	33.85
150	33.73	33.56	33.60	33.65	33.70	33.82	33.88	33.87	33.95	33.97
200	33.78	33.84	33.89	33.93	33.97	34.02	34.07	34.05	34.06	34.17
250	33.93	33.99	34.03	34.06	34.08	34.10	34.15	34.17	34.18	34.24
300	34.01	34.06	34.10	34.13	34.13	34.15	34.20	34.21	34.25	34.28
400	34.09	34.17	34.19	34.22	34.22	34.23	34.28	34.28	34.30	
500	34.22	34.26	34.28	34.28	34.31	34.28	34.31	34.33	34.31	

SALINITY (PPT) LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	33.89	33.72	33.80	33.73	33.71	33.65	33.69	33.59	33.59
10	33.89	33.71	33.81	33.73	33.71	33.65	33.67	33.60	33.59
20	33.89	33.71	33.81	33.74	33.71	33.65	33.67	33.57	33.58
30	33.89	33.70	33.81	33.72	33.70	33.64	33.65	33.50	33.51
50	33.84	33.64	33.70	33.56	33.54	33.43	33.48	33.46	33.53
75	33.81	33.61	33.74	33.61	33.55	33.43	33.54	33.55	33.67
100	33.90	33.74	33.75	33.63	33.61	33.50	33.66	33.70	33.77
125	33.88	33.73	33.72	33.64	33.69	33.66	33.78	33.85	33.87
150	33.77	33.80	33.76	33.73	33.79	33.83	33.94	33.98	34.00
200	33.92	33.88	34.01	33.97	34.03	34.09	34.11	34.18	34.21
250	34.14	34.00	34.12	34.12	34.19	34.22	34.26	34.32	34.33
300	34.21	34.10	34.22	34.19	34.24	34.26	34.32	34.36	34.37
400	34.28	34.20	34.25	34.26	34.32	34.33	34.34	34.34	34.35
500	34.32	34.28	34.32	34.33	34.35	34.36	34.35	34.36	34.35





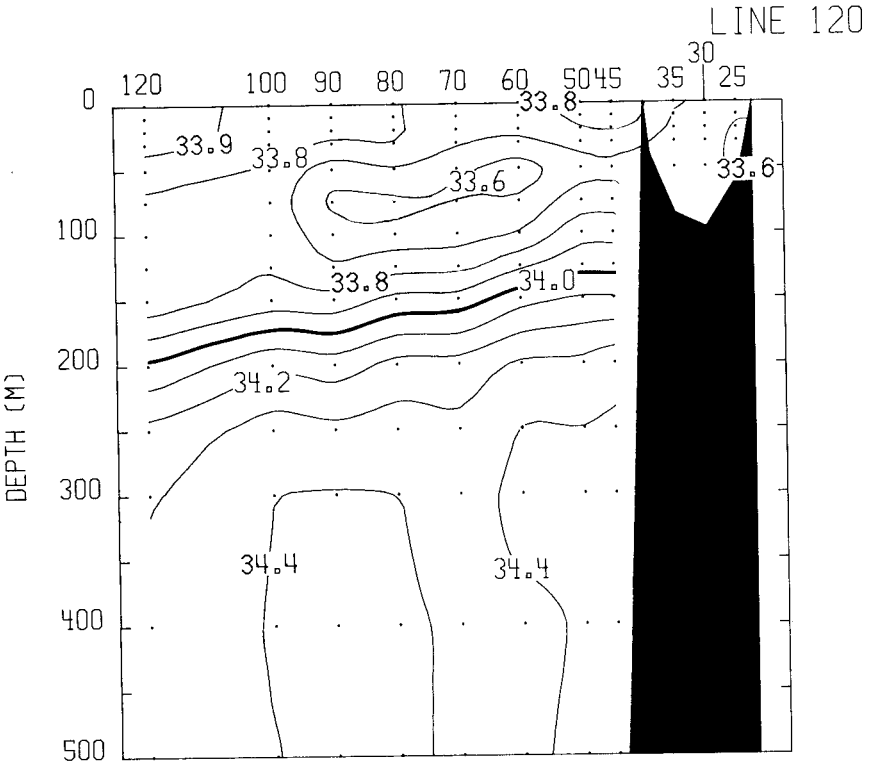
OCTOBER
SALINITY

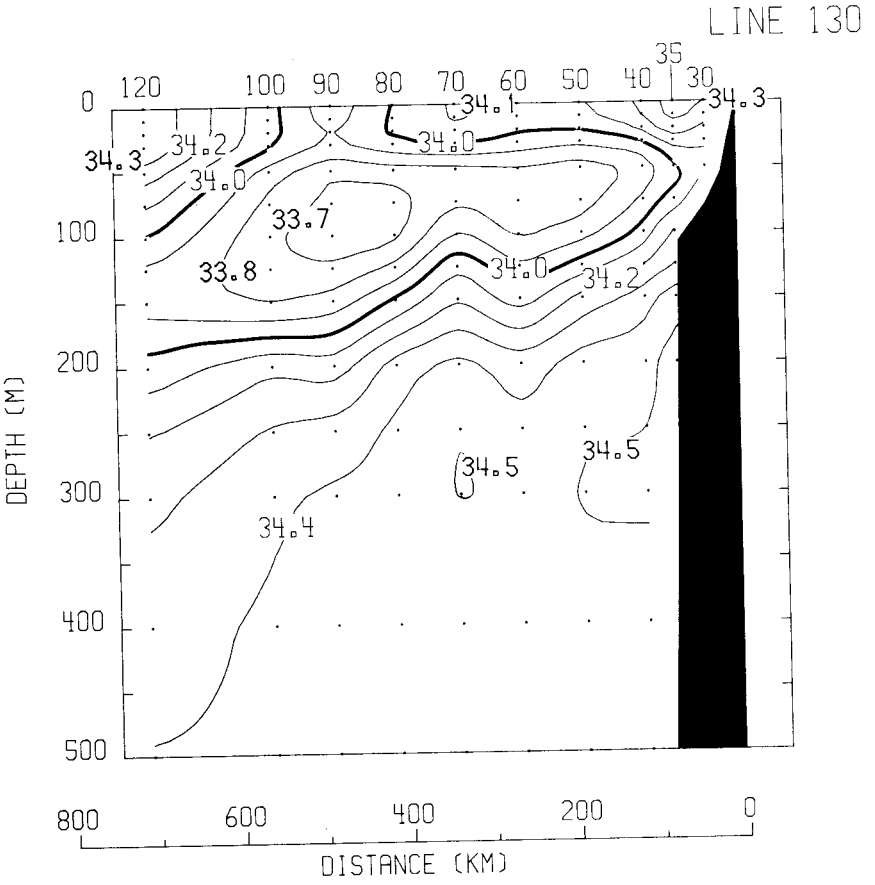
SALINITY (PPT) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	33.96	33.87	33.82	33.82	33.72	33.76	33.84	33.93	33.70	33.71	33.63
10	33.96	33.86	33.84	33.82	33.72	33.74	33.83	33.93	33.67	33.70	33.63
20	33.96	33.86	33.84	33.82	33.73	33.73	33.80	33.89	33.68	33.70	33.59
30	33.95	33.86	33.79	33.82	33.72	33.68	33.73	33.76	33.65	33.68	33.57
50	33.83	33.78	33.62	33.69	33.61	33.53	33.66	33.67	33.61	33.64	
75	33.79	33.74	33.58	33.57	33.60	33.61	33.76	33.75			
100	33.74	33.78	33.64	33.64	33.65	33.69	33.88	33.87			
125	33.72	33.79	33.70	33.76	33.76	33.88	33.97	33.96			
150	33.73	33.85	33.83	33.94	33.93	34.07	34.12	34.11			
200	34.01	34.20	34.14	34.25	34.24	34.33	34.32	34.38			
250	34.23	34.35	34.32	34.35	34.32	34.41	34.40	34.42			
300	34.29	34.40	34.41	34.40	34.37	34.43	34.41	34.41			
400	34.32	34.41	34.43	34.41	34.39	34.39	34.41	34.40			
500	34.36	34.40	34.42	34.41	34.39	34.39	34.41	34.40			

SALINITY (PPT) LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	34.40	34.04	33.83	34.00	34.12	34.05	34.09	34.21	34.37	34.30
10	34.39	34.03	33.85	34.02	34.12	34.04	34.08	34.21	34.36	34.26
20	34.40	34.03	33.89	34.02	34.11	34.02	34.01	34.12	34.35	34.13
30	34.41	34.03	33.89	34.00	34.05	33.97	33.92	33.98	34.16	34.09
50	34.26	33.84	33.70	33.74	33.73	33.78	33.73	33.81	33.97	34.09
75	34.12	33.77	33.68	33.65	33.78	33.73	33.74	33.90	34.06	
100	34.00	33.72	33.62	33.65	33.92	33.77	33.84	34.02	34.26	
125	33.88	33.73	33.71	33.82	34.11	33.89	34.04	34.19	34.31	
150	33.86	33.78	33.84	34.01	34.21	34.04	34.24	34.35	34.48	
200	34.04	34.19	34.14	34.36	34.44	34.34	34.45	34.47	34.56	
250	34.19	34.31	34.35	34.42	34.50	34.42	34.50	34.50		
300	34.27	34.39	34.42	34.43	34.51	34.47	34.51	34.51		
400	34.36	34.42	34.42	34.44	34.47	34.46	34.47	34.46		
500	34.40	34.42	34.45	34.42	34.46	34.44	34.45	34.44		





OCTOBER
SALINITY

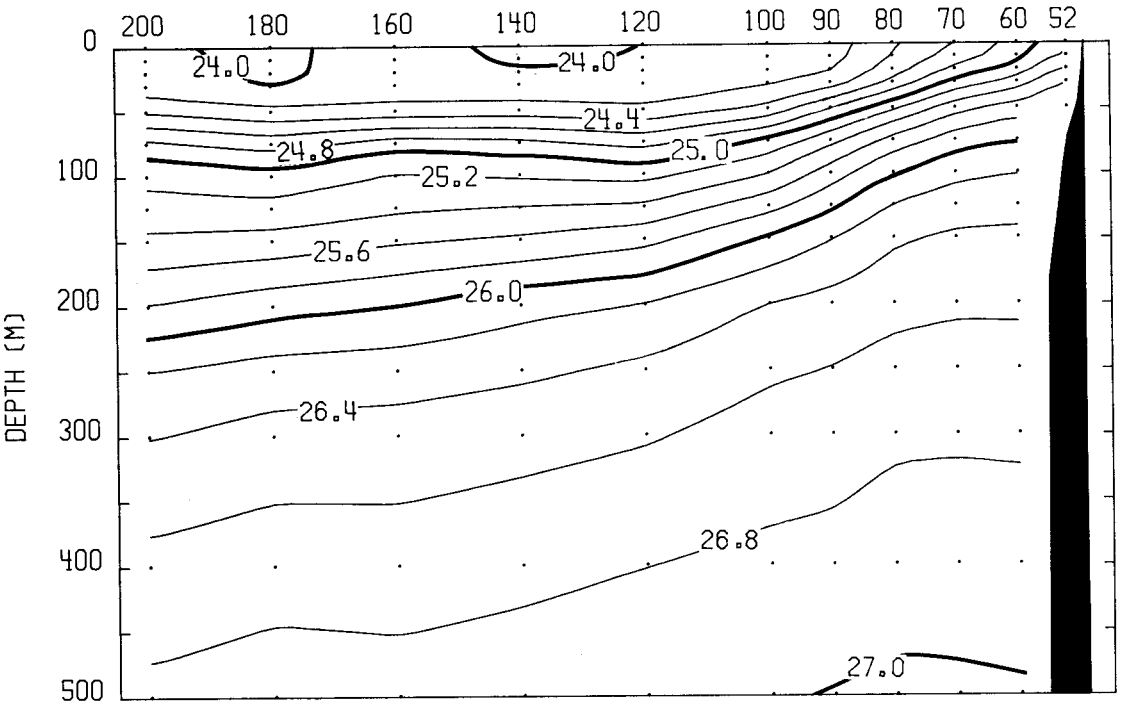
SIGMA-T LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	24.02	23.95	24.09	23.95	23.99	24.05	24.09	24.35	24.55	24.87	25.15
10	24.05	23.96	24.09	23.95	24.02	24.07	24.11	24.40	24.69	24.90	25.19
20	24.07	23.96	24.09	24.03	24.02	24.10	24.19	24.49	24.83	25.07	25.45
30	24.09	23.97	24.09	24.07	24.04	24.17	24.23	24.62	25.05	25.27	25.63
50	24.38	24.26	24.26	24.28	24.22	24.42	24.82	25.17	25.54	25.71	25.81
75	24.89	24.73	24.95	24.90	24.73	25.08	25.36	25.69	25.92	26.00	
100	25.15	25.08	25.23	25.18	25.14	25.39	25.70	26.00	26.15	26.20	
125	25.28	25.26	25.36	25.41	25.43	25.73	25.96	26.22	26.31	26.34	
150	25.45	25.48	25.57	25.63	25.74	26.03	26.20	26.37	26.44	26.44	
200	25.81	25.93	26.01	26.14	26.22	26.41	26.47	26.54	26.57	26.57	
250	26.21	26.29	26.31	26.36	26.44	26.57	26.61	26.67	26.68	26.67	
300	26.39	26.47	26.48	26.53	26.58	26.68	26.71	26.77	26.77	26.77	
400	26.66	26.72	26.71	26.75	26.80	26.85	26.86	26.91	26.91	26.90	
500	26.85	26.90	26.88	26.91	26.95	26.99	27.01	27.04	27.03	27.02	

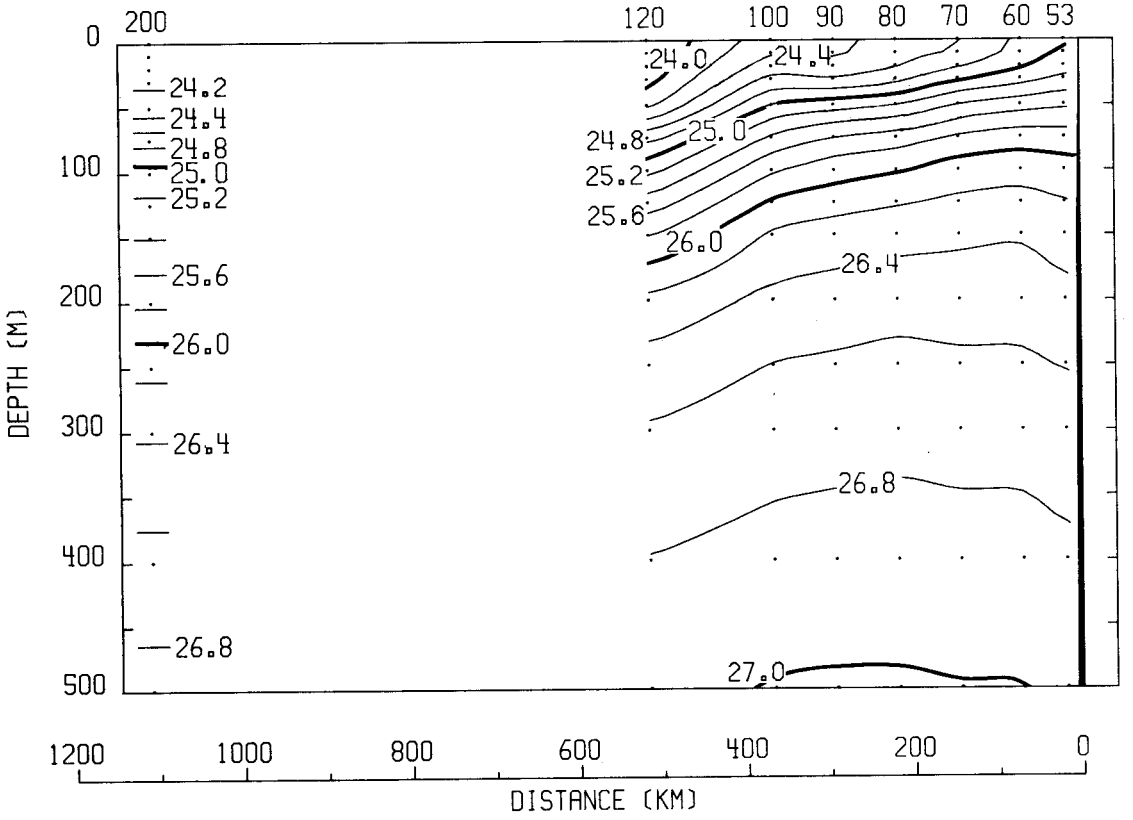
SIGMA-T LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	24.15	23.80	24.27	24.33	24.48	24.58	24.83	24.98
10	24.15	23.85	24.40	24.34	24.49	24.57	24.86	25.03
20	24.16	23.85	24.51	24.45	24.58	24.77	24.94	25.13
30	24.17	23.91	24.66	24.57	24.66	24.97	25.08	25.24
50	24.26	24.09	25.04	25.12	25.20	25.42	25.52	25.58
75	24.74	24.74	25.45	25.63	25.70	25.85	25.92	25.89
100	25.09	25.12	25.78	25.92	25.99	26.09	26.12	26.08
125	25.24	25.48	26.05	26.12	26.18	26.24	26.28	26.20
150	25.39	25.78	26.24	26.29	26.33	26.36	26.39	26.30
200	25.77	26.25	26.46	26.49	26.52	26.52	26.52	26.45
250	26.15	26.48	26.61	26.63	26.66	26.63	26.63	26.58
300	26.38	26.62	26.71	26.73	26.75	26.73	26.73	26.68
400	26.67	26.81	26.87	26.89	26.89	26.88	26.88	26.84
500	26.87	26.96	27.01	27.02	27.02	27.01	27.01	26.97

LINE 60



LINE 70



OCTOBER
SIGMA-T

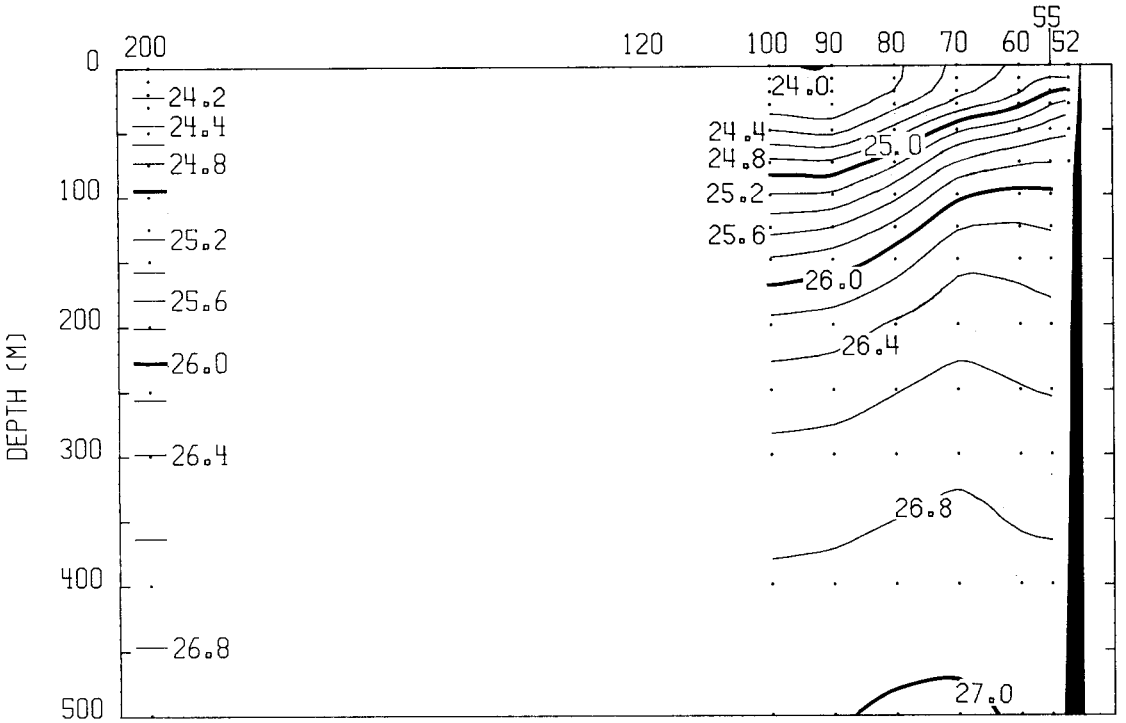
SIGMA-T LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	24.08	23.99	23.99	24.15	24.45	24.62	24.69	24.64
10	24.14	24.03	24.00	24.14	24.47	24.67	24.85	24.71
20	24.18	24.05	24.02	24.18	24.52	24.73	25.00	25.04
30	24.24	24.08	24.05	24.29	24.63	24.88	25.20	25.31
50	24.47	24.41	24.27	24.66	25.20	25.39	25.51	25.57
75	24.85	24.87	24.85	25.15	25.66	25.78	25.83	25.77
100	25.05	25.22	25.21	25.53	25.98	26.07	26.02	
125	25.15	25.53	25.60	25.86	26.21	26.23	26.18	
150	25.33	25.82	25.89	26.10	26.37	26.34	26.30	
200	25.80	26.26	26.30	26.43	26.54	26.50	26.46	
250	26.17	26.50	26.52	26.60	26.66	26.61	26.59	
300	26.41	26.65	26.66	26.70	26.76	26.70	26.68	
400	26.71	26.84	26.85	26.89	26.92	26.87	26.86	
500	26.91	26.99	26.99	27.03	27.04	26.98	26.98	

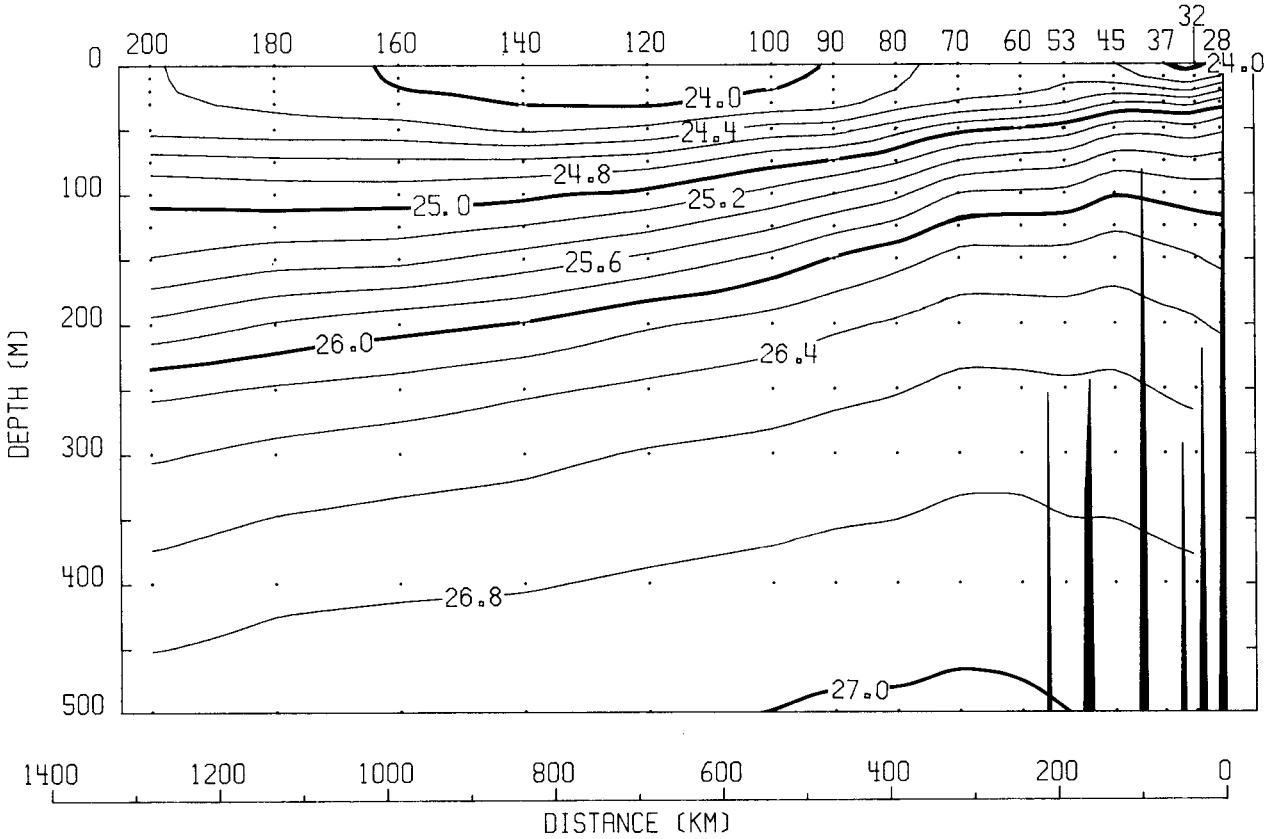
SIGMA-T LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	24.21	24.12	23.97	23.89	23.88	23.94	24.00	24.16	24.24	24.25	24.34	24.20	23.98	23.92	24.04
10	24.21	24.15	23.97	23.91	23.90	23.97	24.02	24.18	24.26	24.26	24.36	24.25	24.06	23.93	24.19
20	24.21	24.15	24.00	23.94	23.91	23.99	24.05	24.20	24.31	24.32	24.43	24.50	24.42	24.30	24.63
30	24.22	24.16	24.08	23.99	23.96	24.04	24.09	24.25	24.37	24.45	24.55	24.81	24.83	24.71	25.01
50	24.32	24.28	24.28	24.12	24.22	24.48	24.48	24.72	24.95	25.03	25.09	25.35	25.35	25.26	25.39
75	24.71	24.67	24.65	24.67	24.72	24.96	25.04	25.18	25.43	25.52	25.54	25.74	25.68	25.63	25.69
100	24.95	24.91	24.90	24.95	25.06	25.26	25.40	25.55	25.84	25.84	25.85	26.02	25.94	25.91	25.89
125	25.07	25.10	25.12	25.21	25.35	25.57	25.74	25.85	26.09	26.08	26.09	26.19	26.12	26.07	26.04
150	25.20	25.32	25.34	25.49	25.65	25.87	26.02	26.14	26.27	26.27	26.27	26.33	26.26	26.23	26.14
200	25.65	25.83	25.95	26.02	26.19	26.29	26.37	26.43	26.51	26.50	26.49	26.52	26.45	26.43	26.36
250	26.16	26.24	26.29	26.38	26.44	26.51	26.56	26.59	26.64	26.64	26.62	26.64	26.59	26.56	26.50
300	26.38	26.46	26.52	26.55	26.62	26.66	26.69	26.70	26.75	26.75	26.72	26.73	26.69	26.67	
400	26.67	26.76	26.78	26.79	26.83	26.86	26.88	26.89	26.92	26.91	26.88	26.87	26.85	26.83	
500	26.91	26.93	26.96	26.96	26.99	27.01	27.03	27.02	27.05	27.03	27.00	27.00	26.98	26.98	

LINE 80



LINE 90



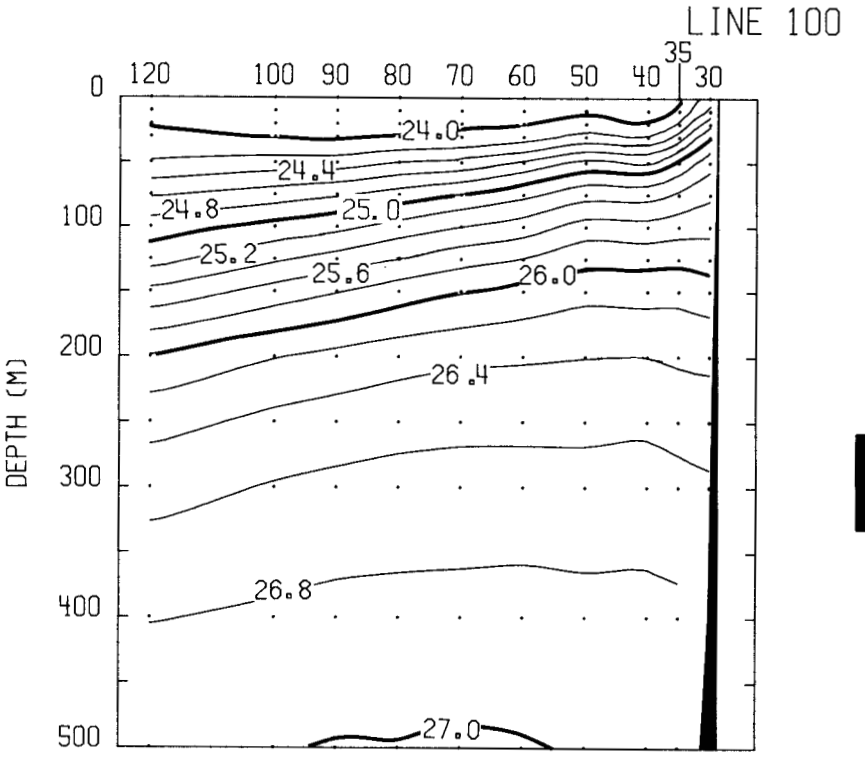
OCTOBER
SIGMA-T

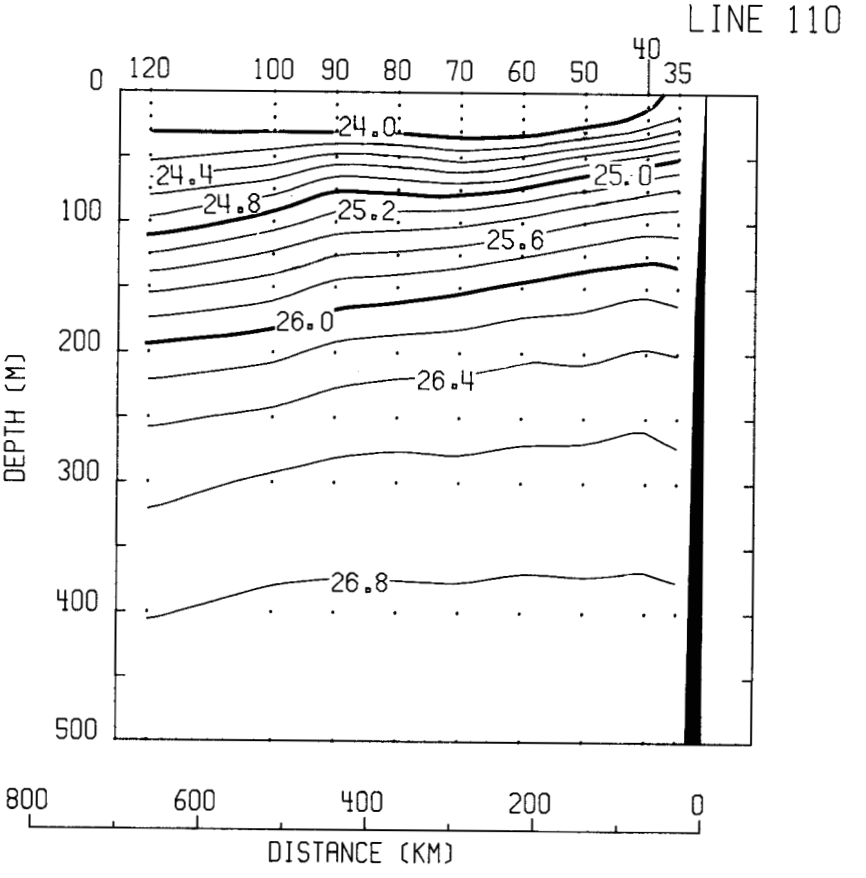
SIGMA-T LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	23.91	23.87	23.85	23.91	23.92	23.93	23.94	23.87	23.92	24.30
10	23.92	23.89	23.86	23.92	23.93	23.95	23.96	23.89	23.93	24.52
20	23.98	23.90	23.88	23.93	23.96	23.98	24.08	23.97	24.17	24.90
30	24.05	23.95	23.94	23.98	24.01	24.04	24.25	24.13	24.49	25.12
50	24.19	24.29	24.28	24.42	24.44	24.66	24.94	24.84	25.04	25.39
75	24.58	24.70	24.80	24.90	25.05	25.18	25.36	25.33	25.46	25.59
100	24.90	25.06	25.14	25.28	25.41	25.49	25.71	25.67	25.72	25.76
125	25.09	25.37	25.48	25.62	25.74	25.81	25.97	25.93	25.98	25.90
150	25.44	25.68	25.80	25.91	25.99	26.07	26.16	26.13	26.16	26.10
200	26.02	26.20	26.27	26.33	26.37	26.38	26.40	26.41	26.37	26.35
250	26.33	26.46	26.50	26.53	26.55	26.55	26.55	26.57	26.53	26.51
300	26.53	26.62	26.65	26.67	26.68	26.69	26.68	26.69	26.67	26.62
400	26.79	26.83	26.86	26.87	26.87	26.88	26.86	26.87	26.84	
500	26.98	26.99	27.02	27.01	27.03	27.01	26.99	27.01	26.98	

SIGMA-T LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	23.98	23.84	23.80	23.79	23.82	23.80	23.81	23.91	24.06
10	23.98	23.89	23.83	23.81	23.84	23.80	23.81	23.96	24.10
20	23.98	23.89	23.86	23.83	23.85	23.82	23.89	24.02	24.23
30	23.97	23.95	23.92	23.91	23.88	23.85	24.00	24.25	24.49
50	24.11	24.28	24.49	24.48	24.29	24.45	24.73	24.92	25.02
75	24.54	24.72	25.05	24.96	24.93	25.06	25.24	25.37	25.47
100	24.82	25.11	25.29	25.32	25.36	25.47	25.62	25.73	25.71
125	25.20	25.44	25.61	25.64	25.70	25.80	25.90	25.98	25.92
150	25.55	25.70	25.87	25.90	25.97	26.05	26.11	26.18	26.12
200	26.07	26.15	26.27	26.32	26.33	26.39	26.36	26.43	26.40
250	26.37	26.44	26.51	26.53	26.53	26.55	26.55	26.59	26.54
300	26.55	26.63	26.66	26.66	26.65	26.67	26.67	26.69	26.66
400	26.79	26.85	26.85	26.84	26.84	26.85	26.85	26.86	26.84
500	26.97	27.00	27.00	27.00	26.99	27.00	26.99	27.00	26.99





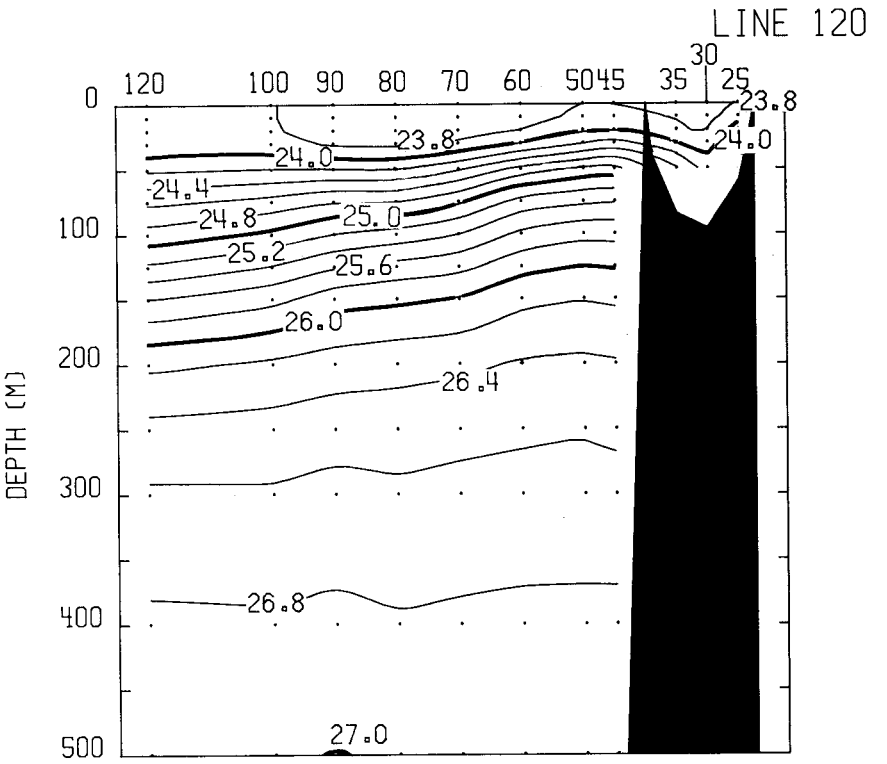
OCTOBER
SIGMA-T

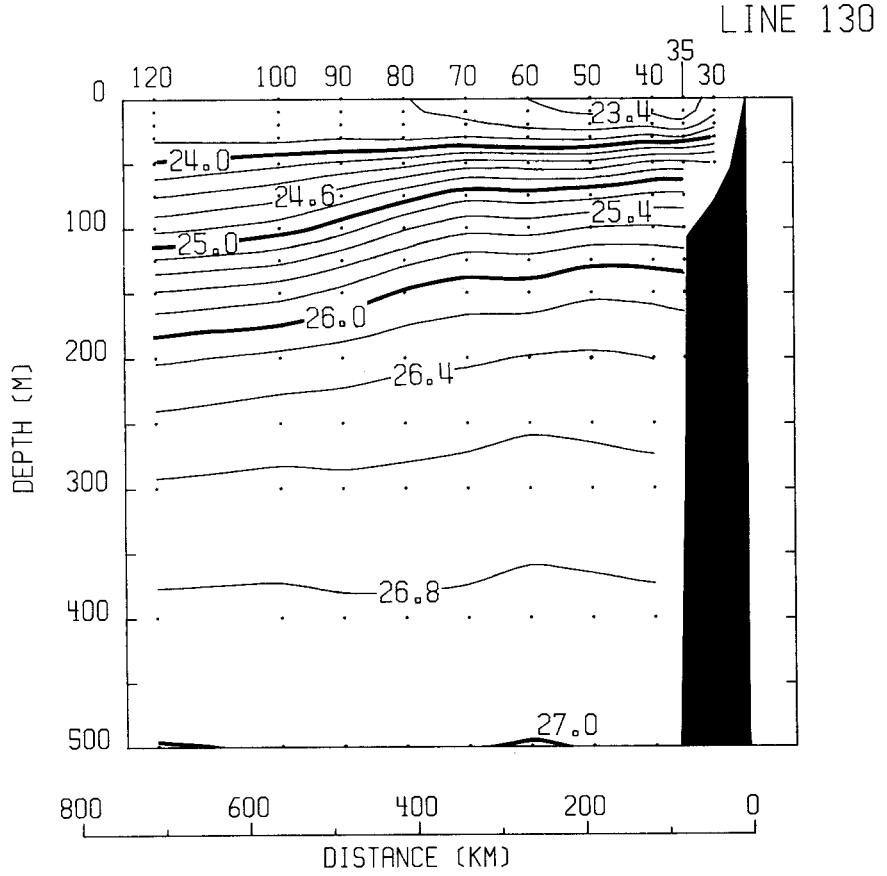
SIGMA-T LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	23.84	23.83	23.62	23.63	23.69	23.67	23.80	23.79	23.73	23.67	23.82
10	23.85	23.82	23.63	23.64	23.68	23.68	23.82	23.81	23.80	23.69	23.88
20	23.85	23.82	23.66	23.67	23.70	23.79	23.96	23.97	23.84	23.72	24.17
30	23.85	23.87	23.73	23.71	23.77	23.95	24.15	24.29	23.94	23.78	24.51
50	24.18	24.21	24.21	24.18	24.39	24.70	24.86	24.92	24.54	24.12	
75	24.57	24.69	24.83	24.81	24.97	25.31	25.37	25.41			
100	24.88	25.04	25.21	25.29	25.40	25.65	25.75	25.73			
125	25.24	25.42	25.59	25.68	25.74	25.95	26.01	25.98			
150	25.61	25.75	25.93	25.98	26.01	26.16	26.20	26.16			
200	26.17	26.25	26.30	26.33	26.36	26.43	26.44	26.42			
250	26.46	26.48	26.52	26.51	26.54	26.56	26.59	26.55			
300	26.63	26.62	26.66	26.63	26.66	26.68	26.68	26.67			
400	26.84	26.83	26.85	26.82	26.84	26.85	26.85	26.85			
500	27.00	26.98	27.01	26.97	26.99	26.98	27.00	27.00			

SIGMA-T LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	23.74	23.63	23.66	23.60	23.55	23.38	23.30	23.33	23.24	23.49
10	23.73	23.63	23.68	23.62	23.56	23.42	23.36	23.35	23.24	23.55
20	23.73	23.62	23.69	23.63	23.62	23.52	23.46	23.52	23.28	23.78
30	23.74	23.68	23.74	23.68	23.76	23.70	23.67	23.87	23.73	24.05
50	24.02	24.18	24.27	24.34	24.54	24.50	24.48	24.70	24.75	24.71
75	24.40	24.54	24.70	24.95	25.17	25.10	25.16	25.27	25.27	
100	24.71	24.89	25.11	25.39	25.56	25.51	25.62	25.63	25.59	
125	25.25	25.36	25.54	25.76	25.91	25.86	25.96	25.95	25.91	
150	25.63	25.74	25.87	26.05	26.12	26.09	26.18	26.16	26.12	
200	26.18	26.27	26.31	26.36	26.37	26.42	26.44	26.40	26.38	
250	26.45	26.51	26.50	26.53	26.55	26.58	26.57	26.54		
300	26.63	26.65	26.64	26.65	26.66	26.70	26.67	26.66		
400	26.85	26.86	26.84	26.84	26.84	26.87	26.86	26.85		
500	27.01	27.00	27.00	26.97	27.00	27.01	27.00	27.00		





OCTOBER
SIGMA-T

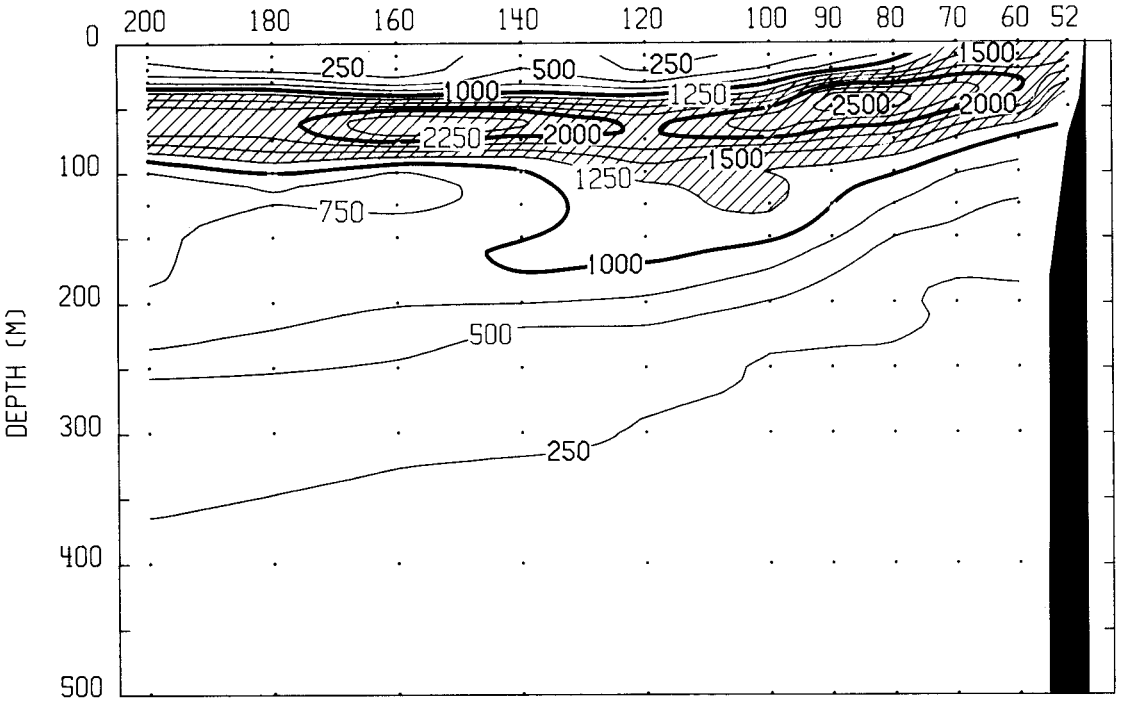
STABILITY (10E-8/M) LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0											
10	233	16	16	400	149	250	506	693	1393	974	1518
20	166	50	16	566	100	500	640	1081	1797	1875	2191
30	685	657	239	591	406	852	1541	1923	2337	2174	1454
50	1914	1806	1942	1880	1538	2051	2826	2640	2079	1747	
75	1611	1720	2118	1919	1930	2022	1710	1624	1178	916	
100	703	1002	670	928	1374	1211	1157	1017	747	663	
125	549	756	648	881	1181	1322	997	737	563	463	
150	692	923	909	988	1170	1059	792	482	410	324	
200	809	846	769	763	689	482	361	267	219	223	
250	601	534	455	345	316	226	222	221	198	191	
300	295	283	266	278	238	192	180	167	161	169	
400	219	202	189	179	184	151	142	131	125	119	
500											

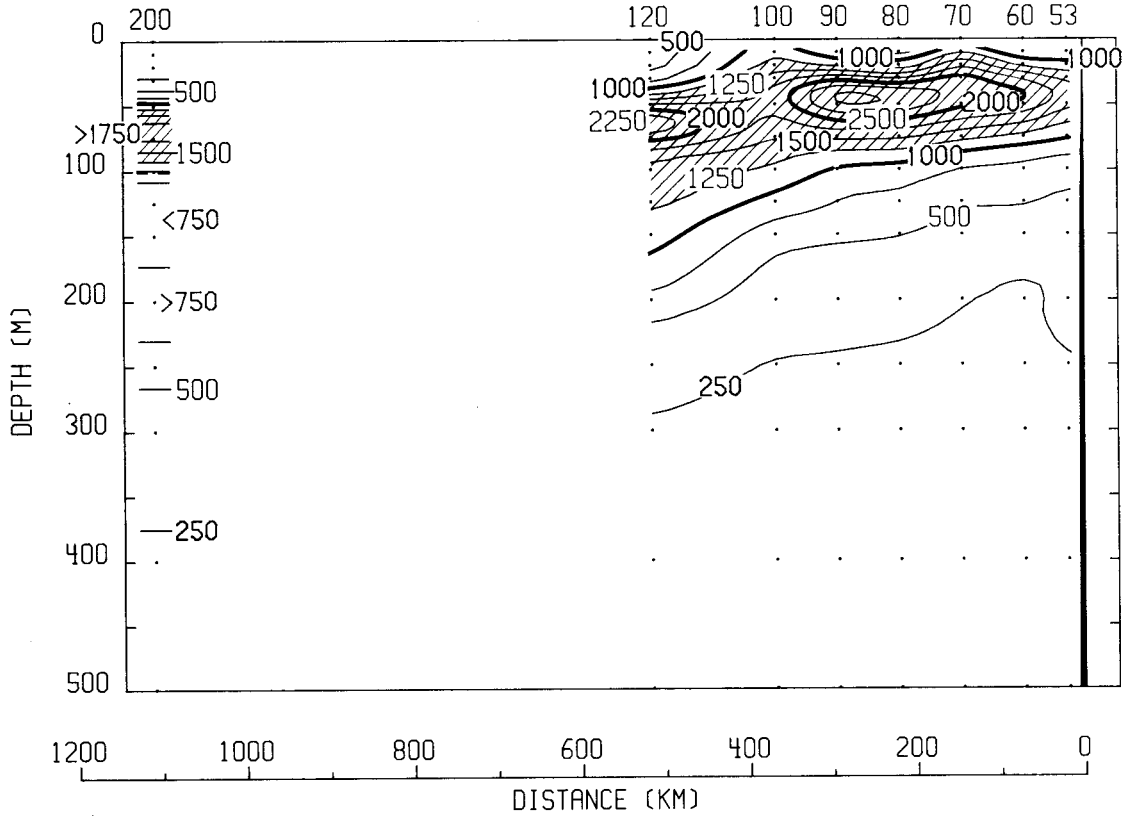
STABILITY (10E-8/M) LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0								
10	66	283	1199	568	495	944	566	757
20	100	300	1312	1162	854	1991	1127	1028
30	266	610	1659	1928	1623	2128	1752	1376
50	1084	1818	1831	2606	2566	2080	2027	1562
75	1812	2190	1496	1566	1560	1341	1181	984
100	978	1415	1208	929	919	718	672	603
125	543	1326	912	735	671	513	520	434
150	652	1118	611	560	509	410	366	338
200	812	675	335	304	306	253	225	281
250	626	324	238	230	211	207	201	240
300	368	229	179	175	157	176	176	174
400	230	162	147	144	136	134	138	136
500								

LINE 60



LINE 70



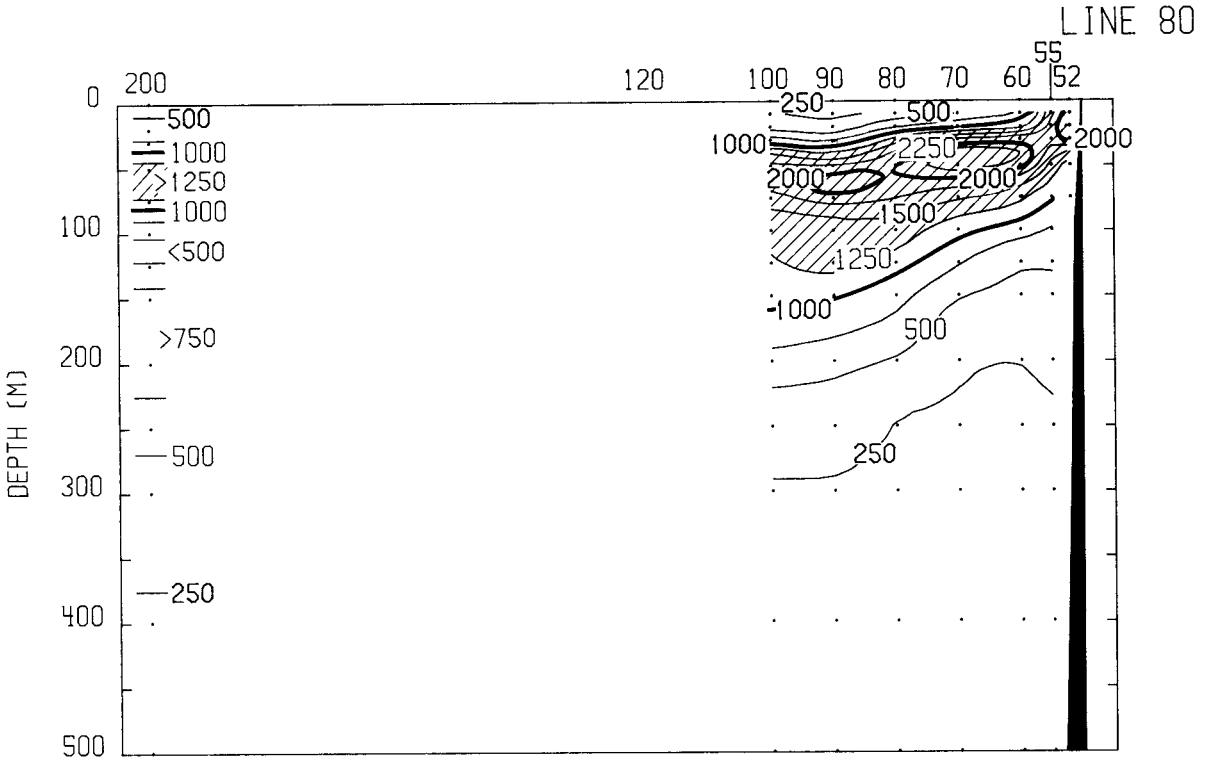
OCTOBER
STABILITY

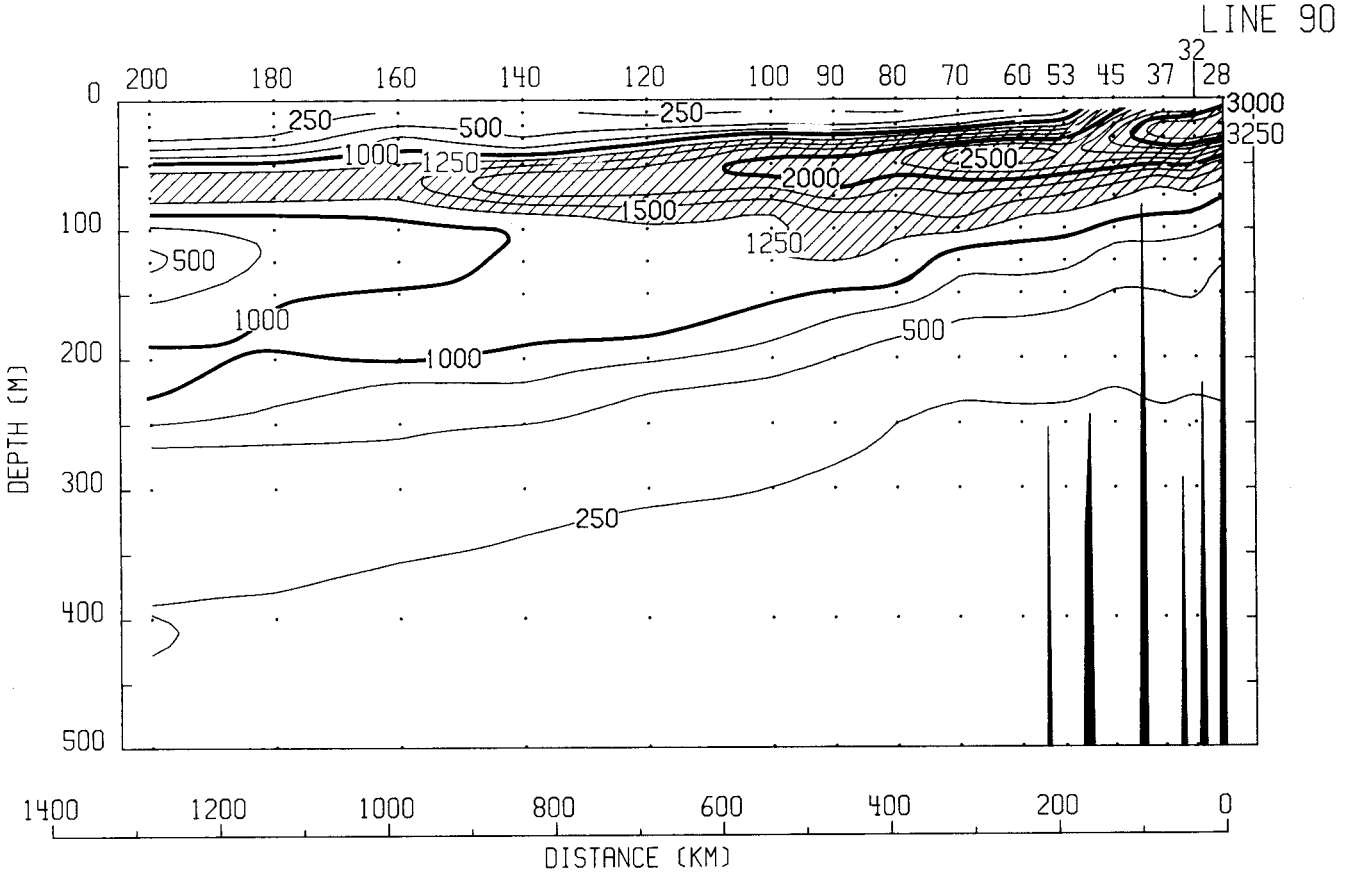
STABILITY (10E-8/M) LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0								
10	499	289	166	131	383	558	1525	2029
20	499	229	237	704	762	1025	1750	2985
30	768	850	545	1408	1842	1972	1846	2139
50	1438	1895	1815	2019	2579	2206	1417	1004
75	1210	1628	1952	1765	1530	1325	1009	
100	513	1282	1465	1410	1069	879	689	
125	526	1215	1389	1125	761	519	544	
150	854	1095	1034	840	512	399	400	
200	903	658	594	472	252	248	276	
250	610	347	331	235	215	187	217	
300	385	231	231	201	188	174	181	
400	229	162	154	165	135	148	157	
500								

STABILITY (10E-8/M) LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0															
10	16	166	149	240	142	231	219	157	346	343	443	1503	2209	1919	2957
20	50	49	537	390	307	337	334	349	506	918	965	2821	3860	3890	4103
30	196	252	876	461	779	1213	1030	1315	1604	1991	1923	2994	3539	3586	3080
50	1091	1147	1284	1494	1766	2257	2285	2286	2661	2645	2422	2138	1896	2089	1449
75	1363	1328	1272	1771	1730	1534	1861	1639	1739	1579	1457	1283	1093	1236	941
100	664	824	920	988	1191	1183	1362	1331	1335	1097	1094	897	875	849	686
125	446	801	840	1067	1177	1232	1263	1183	843	851	829	604	637	626	506
150	669	958	1055	1147	1216	1071	961	931	619	634	585	473	483	546	410
200	1073	973	1024	912	792	615	489	386	341	337	329	297	313	306	377
250	751	619	529	501	382	329	284	246	218	233	218	200	229	225	
300	321	360	359	277	277	247	227	209	189	195	174	162	179	195	
400	251	227	199	192	170	168	165	162	149	134	140	126	143	145	
500															





OCTOBER
STABILITY

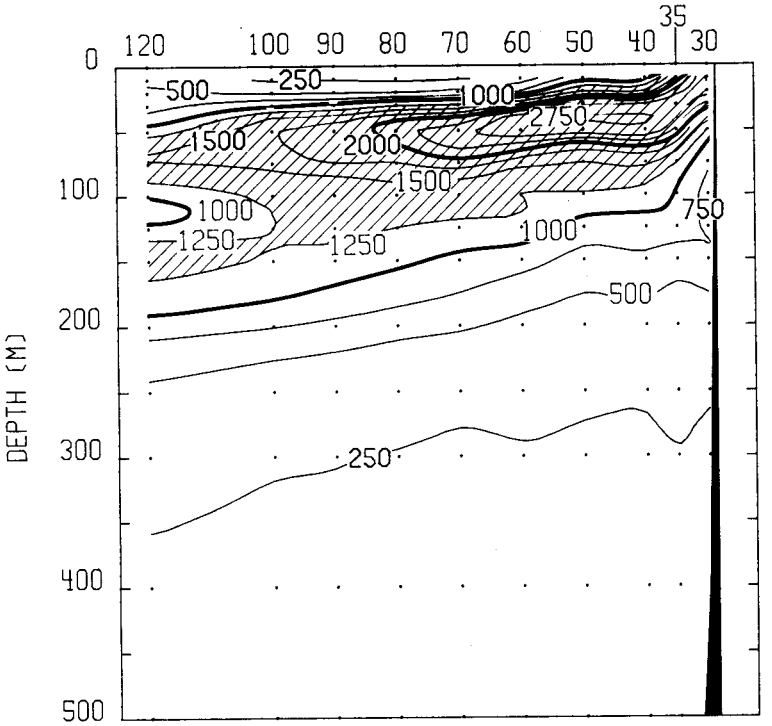
STABILITY (10E-8/M) LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0										
10	366	150	170	145	153	254	677	499	1250	2969
20	633	337	379	304	385	462	1468	1220	2790	3007
30	642	997	1004	1185	1210	1713	2559	2501	3070	1913
50	1125	1779	2029	2258	2492	2883	2756	2991	2269	1012
75	1494	1543	1760	1722	1949	1587	1448	1582	1290	691
100	969	1317	1316	1417	1326	1228	1226	1159	999	591
125	1065	1247	1324	1245	1179	1184	869	903	892	681
150	1391	1223	1156	1053	930	866	639	714	591	714
200	877	761	675	595	534	433	368	419	332	389
250	461	368	341	309	276	278	259	265	293	258
300	330	267	257	239	218	238	224	205	238	
400	213	176	176	158	169	160	156	154	142	
500										

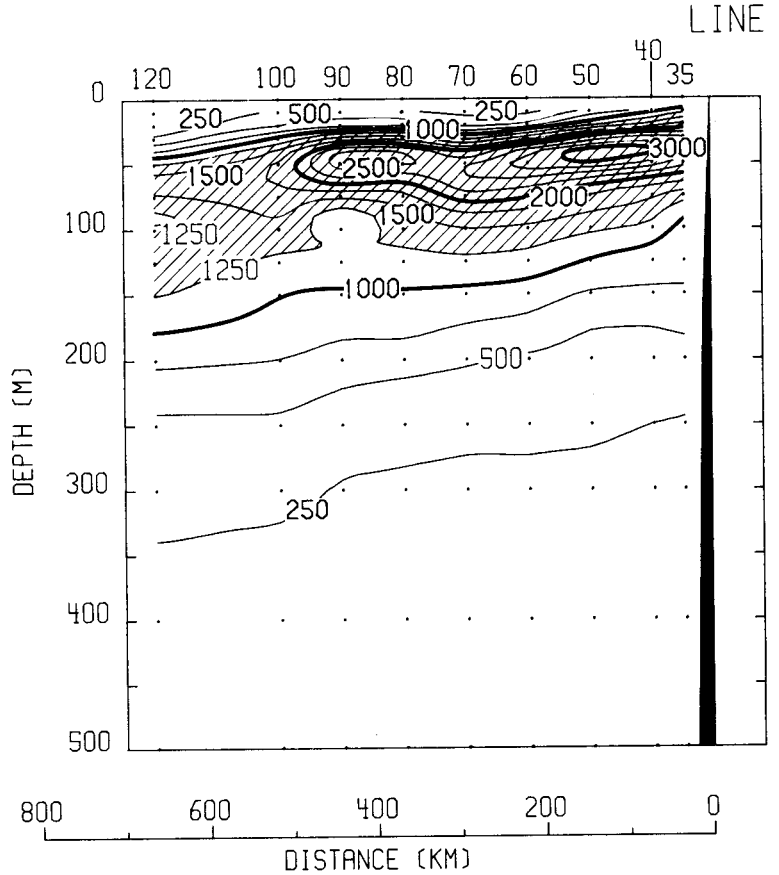
STABILITY (10E-8/M) LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0									
10		274	274	181	158	106	403	559	853
20	-16	337	437	486	195	243	942	1412	1935
30	215	1045	1589	1700	1006	1469	2249	2804	2664
50	1288	1803	2840	2616	2523	3004	3129	2755	2306
75	1457	1677	1524	1641	2196	2039	1697	1541	1334
100	1286	1434	1046	1339	1494	1440	1296	1191	858
125	1493	1165	1192	1159	1193	1148	974	893	818
150	1265	995	960	983	936	889	706	685	712
200	804	748	630	613	531	456	409	376	392
250	444	455	356	315	291	254	297	244	241
300	286	292	233	215	215	217	204	180	211
400	202	168	165	156	165	156	156	150	161
500									

LINE 100



LINE 110



OCTOBER
STABILITY

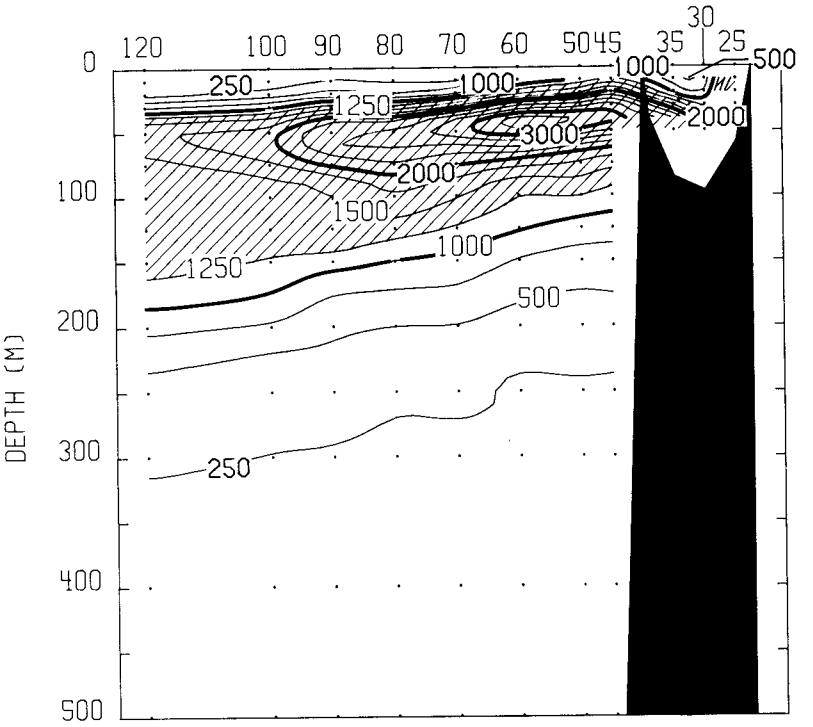
STABILITY (10E-8/M) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0											
10	83	-25	204	161	53	571	769	900	553	268	1777
20	194	250	479	303	428	1367	1606	2389	716	437	3122
30	663	968	1396	1209	1750	2597	2688	3226	1705	947	
50	1778	1937	2650	2661	2995	3378	3036	2646			
75	1382	1681	2013	2244	1987	1822	1695	1553			
100	1295	1428	1464	1722	1517	1216	1264	1113			
125	1488	1436	1457	1380	1217	1009	880	853			
150	1391	1219	1119	981	922	716	634	643			
200	825	705	530	490	491	373	359	362			
250	413	326	335	268	271	230	225	234			
300	272	243	232	207	208	204	172	211			
400	170	171	163	164	154	147	157	163			
500											

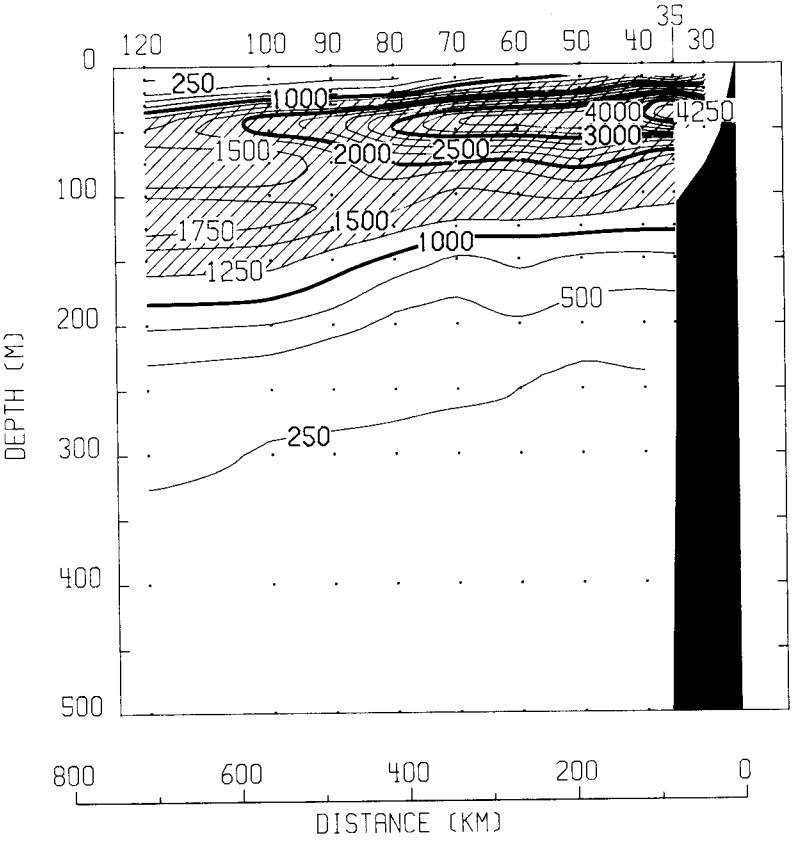
STABILITY (10E-8/M) LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0										
10	-16	-37	162	133	366	726	778	971	181	1446
20	16	287	337	325	1022	1400	1564	2587	2424	2461
30	604	1451	1456	1744	2517	2796	2999	3877	4917	2851
50	1592	2156	2387	3163	3535	3485	3644	3410	3788	
75	1338	1297	1603	2045	1937	1913	2223	1736	1483	
100	1727	1672	1717	1608	1435	1501	1584	1311	1247	
125	1898	1750	1544	1321	1130	1162	1096	1048	1065	
150	1358	1339	1136	926	683	796	705	683	721	
200	786	738	596	420	395	470	347	343		
250	398	329	279	264	279	245	211	238		
300	287	236	227	220	203	203	204	215		
400	179	170	177	156	161	154	165	168		
500										

LINE 120



LINE 130



OCTOBER
STABILITY

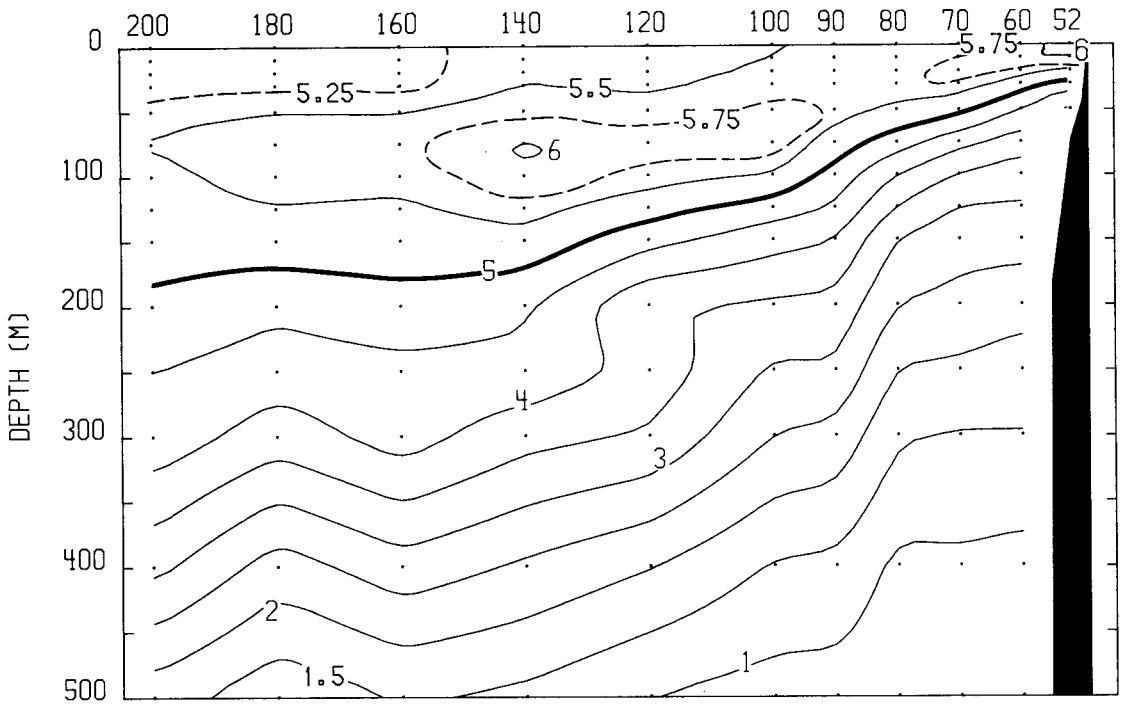
OXYGEN (ML/L) LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	5.08	5.20	5.22	5.46	5.42	5.47	5.55	5.69	5.71	5.79	6.13
10	5.14	5.21	5.22	5.49	5.42	5.51	5.57	5.69	5.76	5.84	6.07
20	5.14	5.23	5.22	5.49	5.42	5.52	5.57	5.71	5.82	5.68	5.43
30	5.13	5.27	5.22	5.49	5.43	5.59	5.63	5.71	5.72	5.41	4.82
50	5.40	5.49	5.49	5.70	5.62	5.86	5.70	5.45	5.25	4.42	3.72
75	5.53	5.75	5.72	6.10	5.82	5.94	5.29	4.77	4.13	3.73	
100	5.39	5.64	5.61	5.93	5.70	5.50	4.83	3.99	3.47	3.21	
125	5.37	5.48	5.43	5.66	5.24	4.75	4.46	3.49	2.96	2.95	
150	5.21	5.27	5.28	5.37	4.66	4.19	4.00	2.97	2.69	2.70	
200	4.90	4.60	4.82	4.58	3.55	3.42	3.36	2.50	2.36	2.19	
250	4.50	4.24	4.35	4.35	3.82	2.93	2.95	1.97	1.91	1.76	
300	4.32	3.73	4.24	3.68	3.45	2.50	2.36	1.55	1.46	1.48	
400	3.15	2.25	2.80	2.42	2.03	1.45	1.38	0.88	0.91	0.83	
500	1.72	1.14	1.52	1.38	0.98	0.79	0.78	0.59	0.54	0.56	

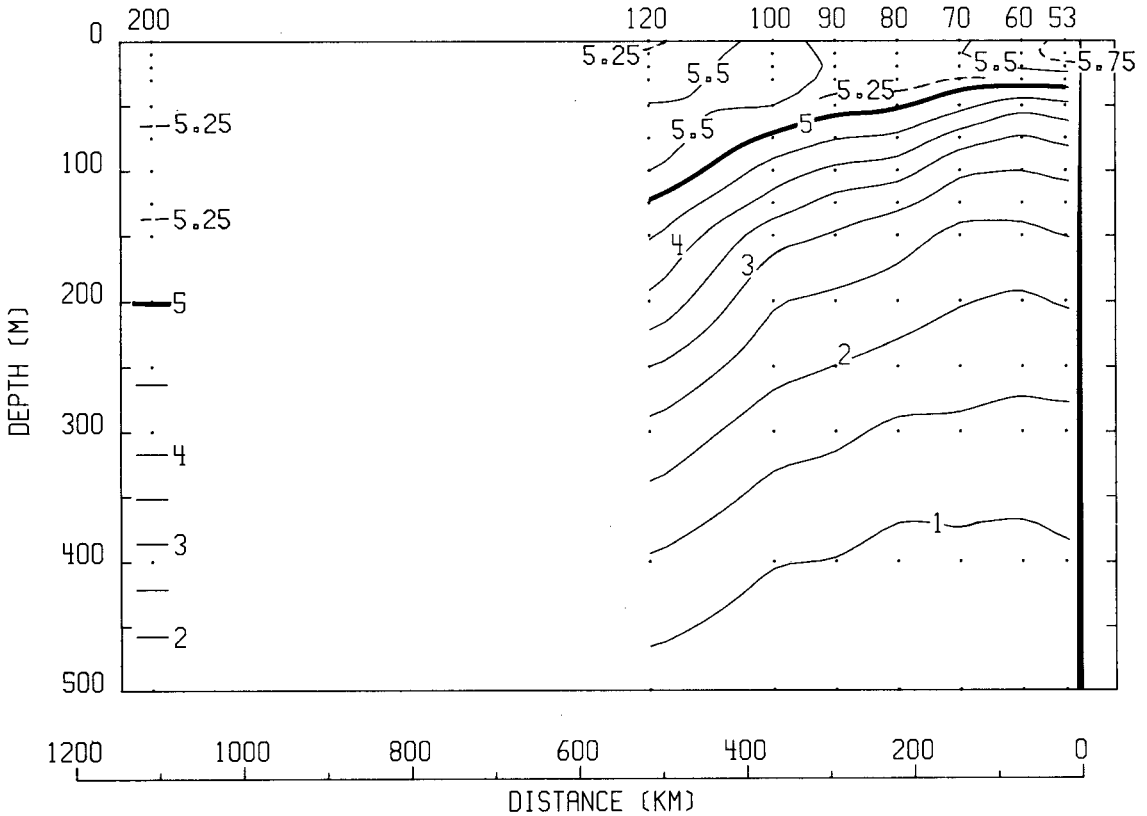
OXYGEN (ML/L) LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	5.11	5.16	5.56	5.40	5.46	5.47	5.54	5.93
10	5.14	5.31	5.66	5.44	5.51	5.48	5.69	5.99
20	5.11	5.30	5.67	5.46	5.48	5.50	5.58	5.70
30	5.08	5.33	5.71	5.45	5.42	5.22	5.33	5.32
50	5.02	5.50	5.58	5.16	5.13	4.70	4.08	4.36
75	5.47	5.87	4.91	4.51	4.43	3.73	3.37	3.66
100	5.40	5.59	4.25	3.88	3.75	3.03	2.98	3.11
125	5.30	4.98	3.81	3.29	3.12	2.70	2.67	2.80
150	5.20	4.60	3.15	2.95	2.70	2.34	2.36	2.53
200	5.01	3.96	2.52	2.40	2.26	2.03	1.91	2.06
250	4.59	3.02	2.14	1.99	1.82	1.63	1.60	1.70
300	4.25	2.38	1.70	1.60	1.39	1.45	1.37	1.35
400	2.80	1.46	1.01	0.99	0.82	0.83	0.81	0.95
500	1.41	0.78	0.58	0.55	0.48	0.51	0.50	0.64

LINE 60



LINE 70



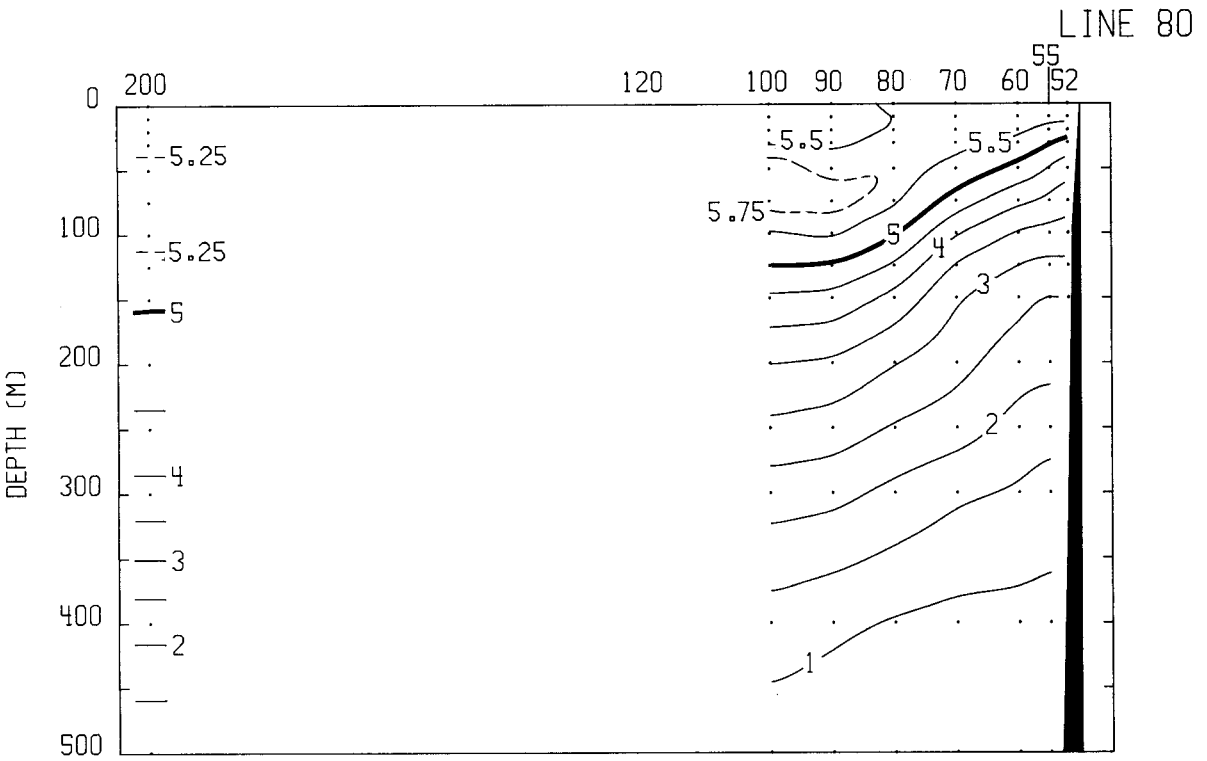
OCTOBER
OXYGEN

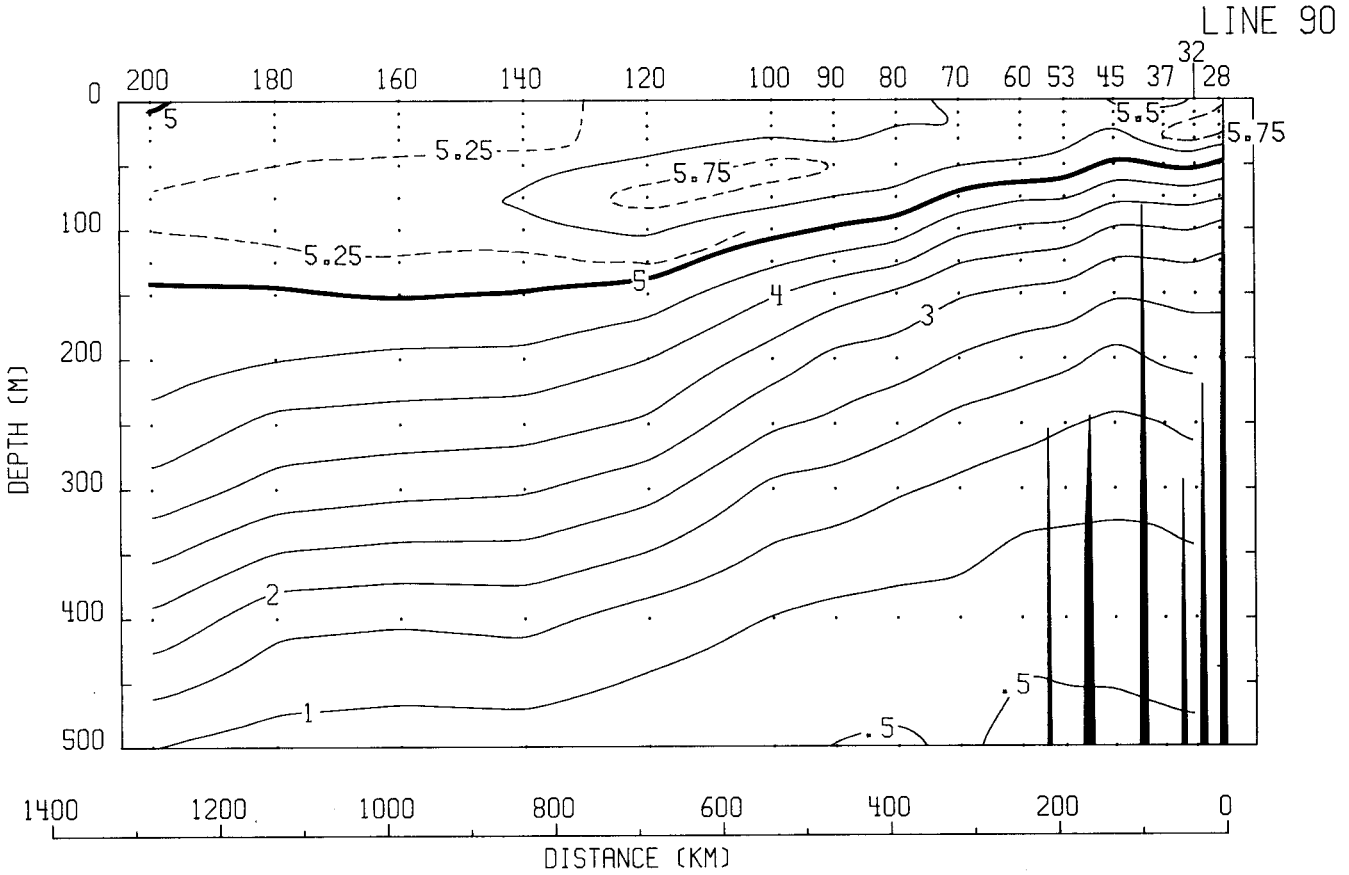
OXYGEN (ML/L) LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	5.04	5.36	5.42	5.56	5.51	5.69	5.77	5.68
10	5.08	5.40	5.44	5.47	5.60	5.71	5.70	5.72
20	5.10	5.41	5.43	5.51	5.61	5.60	5.37	5.25
30	5.13	5.46	5.42	5.57	5.62	5.46	5.07	4.76
50	5.40	5.82	5.66	5.72	5.40	4.87	4.51	4.12
75	5.45	5.84	5.82	5.65	4.79	4.10	3.92	3.60
100	5.36	5.47	5.63	5.11	4.02	3.41	3.33	3.32
125	5.15	5.00	4.97	4.44	3.40	2.98	2.86	2.91
150	5.05	4.41	4.36	3.85	3.04	2.65	2.41	2.50
200	4.78	3.51	3.43	3.02	2.67	2.21	2.14	
250	4.38	2.89	2.77	2.45	2.24	1.81	1.68	
300	3.84	2.24	2.15	1.87	1.58	1.44	1.26	
400	2.18	1.28	1.10	0.95	0.85	0.83	0.82	
500	1.03	0.70	0.61	0.50	0.54	0.54	0.57	

OXYGEN (ML/L) LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	4.98	5.11	5.16	5.18	5.37	5.41	5.45	5.47	5.53	5.61	5.57	5.45	5.44	5.49	5.59
10	5.00	5.08	5.18	5.16	5.35	5.41	5.39	5.47	5.50	5.58	5.61	5.55	5.49	5.50	5.80
20	5.04	5.07	5.16	5.14	5.35	5.44	5.41	5.50	5.49	5.68	5.63	5.50	5.68	5.78	5.87
30	5.09	5.07	5.15	5.12	5.34	5.48	5.43	5.54	5.51	5.67	5.62	5.43	5.77	5.91	5.71
50	5.12	5.25	5.26	5.42	5.58	5.87	5.74	5.73	5.59	5.51	5.38	4.84	5.05	5.28	4.86
75	5.28	5.44	5.52	5.53	5.84	5.66	5.54	5.43	4.89	4.55	4.56	4.10	4.16	4.21	4.01
100	5.25	5.34	5.41	5.44	5.57	5.19	4.98	4.78	4.12	3.91	3.87	3.39	3.47	3.57	3.28
125	5.10	5.14	5.23	5.18	5.31	4.61	4.33	4.11	3.50	3.37	3.27	2.92	2.97	3.04	2.87
150	4.95	4.95	5.05	5.01	4.79	4.03	3.69	3.39	3.03	2.89	2.85	2.54	2.59	2.68	2.67
200	4.72	4.53	4.39	4.37	4.00	3.28	2.85	2.77	2.46	2.25	2.13	1.81	2.09	2.14	2.12
250	4.38	3.85	3.78	3.72	3.42	2.57	2.41	2.14	1.85	1.70	1.52	1.41	1.48	1.63	
300	3.83	3.30	3.14	3.07	2.69	1.87	1.77	1.55	1.40	1.20	1.17	1.12	1.13	1.25	
400	2.40	1.64	1.56	1.64	1.28	0.97	0.86	0.82	0.82	0.60	0.61	0.62	0.69	0.71	
500	0.97	0.78	0.72	0.73	0.60	0.53	0.48	0.43	0.56	0.36	0.41	0.40	0.41	0.44	





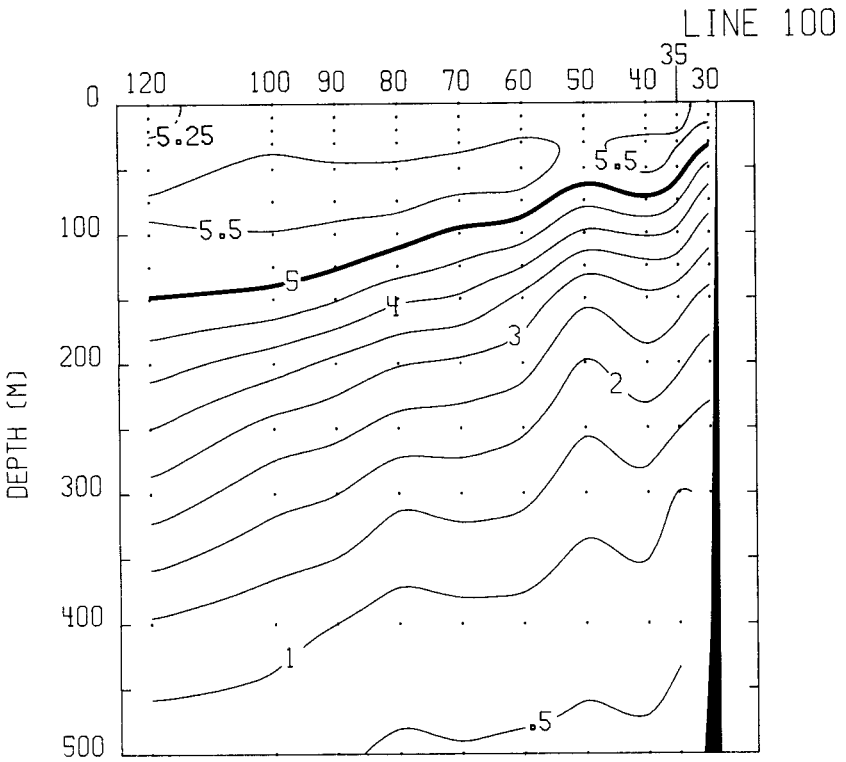
OCTOBER
OXYGEN

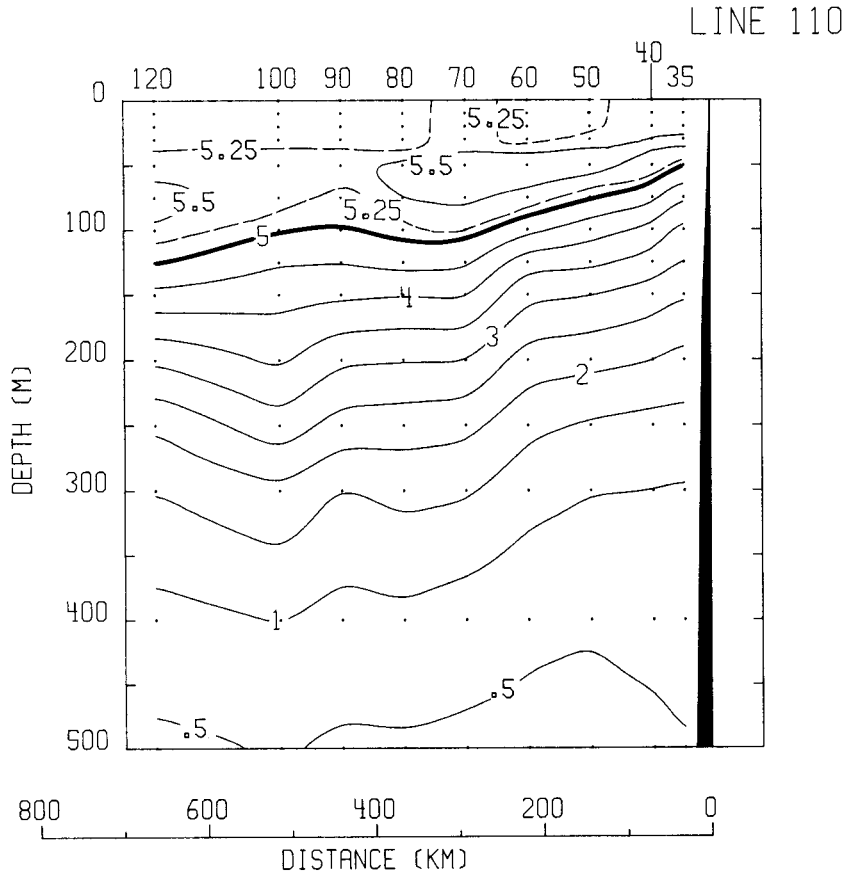
OXYGEN (ML/L) LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	5.18	5.42	5.32	5.20	5.32	5.45	5.25	5.37	5.33	5.69
10	5.21	5.34	5.28	5.26	5.38	5.41	5.32	5.29	5.33	5.70
20	5.24	5.38	5.27	5.27	5.33	5.45	5.44	5.42	5.47	5.41
30	5.26	5.42	5.28	5.29	5.36	5.54	5.50	5.61	5.57	5.06
50	5.31	5.65	5.58	5.59	5.70	5.82	5.27	5.69	5.46	4.12
75	5.56	5.82	5.68	5.68	5.47	5.40	4.56	5.07	4.64	3.54
100	5.45	5.46	5.39	5.25	4.86	4.77	3.86	4.09	3.98	3.07
125	5.19	5.23	5.04	4.74	4.45	4.07	3.06	3.38	3.38	2.66
150	5.01	4.86	4.56	4.06	3.95	3.36	2.52	2.94	2.76	2.24
200	4.21	3.71	3.34	3.01	2.90	2.73	1.87	2.41	2.13	1.69
250	3.52	2.79	2.65	2.29	2.27	2.08	1.49	1.86	1.50	1.29
300	2.84	2.17	2.02	1.58	1.71	1.63	1.16	1.38	0.88	1.13
400	1.44	1.14	0.99	0.74	0.83	0.83	0.60	0.75	0.53	
500	0.69	0.76	0.53	0.43	0.47	0.42	0.42	0.42	0.37	

OXYGEN (ML/L) LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	5.18	5.16	5.09	5.19	5.41	5.10	5.21	5.33	5.37
10	5.18	5.26	5.11	5.20	5.41	5.20	5.18	5.31	5.39
20	5.17	5.22	5.13	5.18	5.33	5.19	5.23	5.41	5.42
30	5.16	5.17	5.16	5.16	5.32	5.20	5.37	5.51	5.60
50	5.38	5.41	5.47	5.62	5.71	5.75	5.74	5.44	5.01
75	5.63	5.38	5.16	5.55	5.62	5.42	5.02	4.69	3.95
100	5.48	5.04	4.98	5.16	5.25	4.66	4.22	3.84	3.27
125	5.06	4.53	4.50	4.69	4.61	3.67	3.62	3.31	2.93
150	4.35	4.17	4.09	4.01	4.07	3.11	3.00	2.76	2.52
200	3.06	3.61	3.07	3.02	3.02	2.25	2.15	2.01	1.83
250	2.05	2.81	2.28	2.23	2.15	1.62	1.43	1.33	1.32
300	1.51	1.89	1.46	1.64	1.56	1.18	1.02	0.99	0.95
400	0.82	1.01	0.81	0.88	0.72	0.58	0.55	0.65	0.67
500	0.39	0.52	0.42	0.43	0.40	0.38	0.33	0.38	0.49





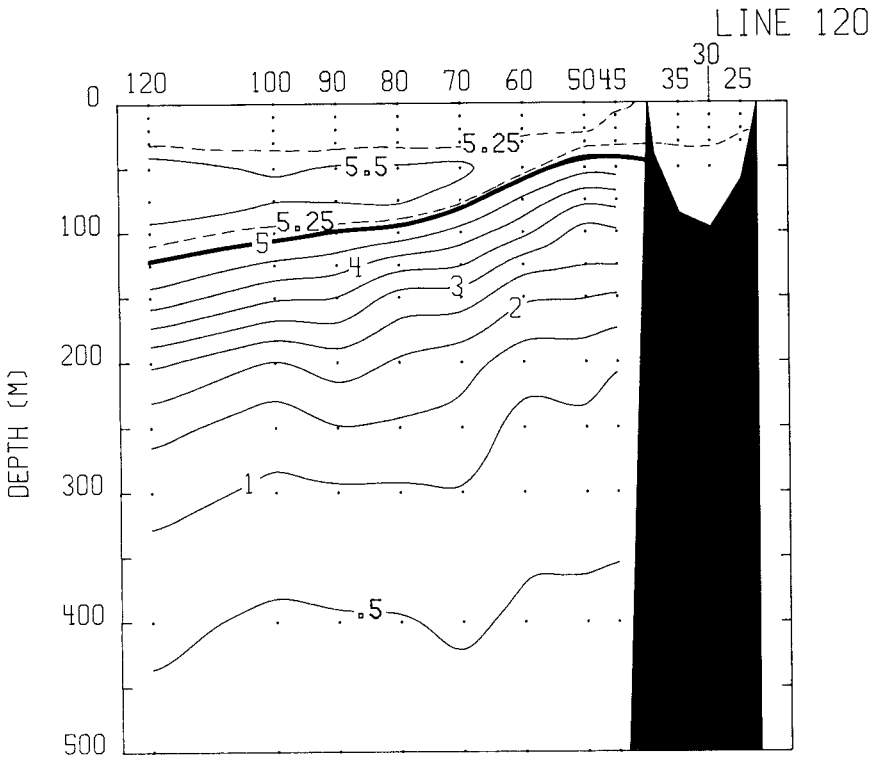
OCTOBER
OXYGEN

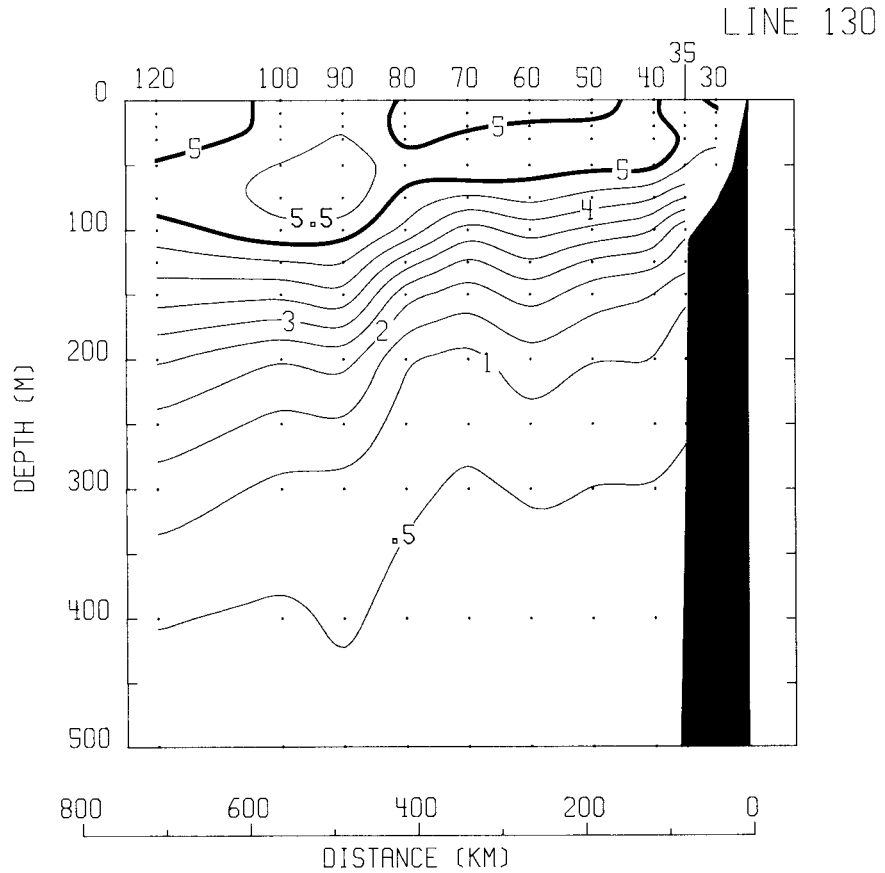
OXYGEN (ML/L) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	5.17	5.13	5.08	5.08	5.21	5.05	5.18	5.21	5.29	5.27	5.49
10	5.20	5.10	5.05	5.07	5.17	5.08	5.20	5.27	5.28	5.24	5.27
20	5.20	5.08	5.07	5.09	5.15	5.15	5.22	5.36	5.29	5.27	5.31
30	5.20	5.05	5.16	5.13	5.21	5.28	5.32	5.38	5.30	5.27	5.02
50	5.76	5.48	5.59	5.58	5.65	5.41	4.68	4.72	5.04	5.16	
75	5.74	5.55	5.60	5.71	5.31	4.37	3.52	3.73			
100	5.40	5.23	4.98	4.84	4.30	3.68	2.70	2.93			
125	5.00	4.35	4.21	3.62	3.58	2.65	2.53	2.55			
150	4.33	3.55	3.53	2.74	2.79	2.04	2.02	1.90			
200	2.59	1.89	2.28	1.91	1.70	1.19	1.24	1.00			
250	1.67	1.16	1.49	1.43	1.35	0.79	0.92	0.73			
300	1.17	0.90	0.93	0.92	0.99	0.61	0.67	0.63			
400	0.61	0.40	0.46	0.47	0.56	0.43	0.41	0.38			
500	0.33	0.24	0.34	0.36	0.34	0.31	0.31	0.26			

OXYGEN (ML/L) LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	4.75	5.08	5.38	5.01	4.95	4.90	4.95	5.08	4.89	5.14
10	4.77	5.06	5.50	4.82	4.96	4.96	4.97	5.01	4.79	4.95
20	4.78	5.07	5.52	4.79	4.96	5.02	5.02	5.11	4.82	4.95
30	4.78	5.07	5.58	4.80	5.05	5.04	5.08	5.25	5.08	4.84
50	5.05	5.58	5.99	5.20	5.56	5.27	5.15	5.22	4.53	3.68
75	5.24	5.66	5.97	4.81	4.37	4.72	4.34	4.08	3.46	
100	4.75	5.42	5.27	4.42	3.21	3.75	3.38	3.07	1.89	
125	4.23	4.46	4.60	3.20	2.29	3.01	2.35	2.17	1.65	
150	3.74	3.59	3.96	2.12	1.71	2.23	1.70	1.50	1.00	
200	2.56	1.98	2.24	1.01	0.80	1.33	0.99	1.01	0.63	
250	1.85	1.34	1.46	0.74	0.57	0.86	0.60	0.76	0.51	
300	1.27	0.88	0.82	0.57	0.43	0.54	0.49	0.48	0.38	
400	0.52	0.40	0.57	0.34	0.26	0.34	0.46	0.33	0.32	
500	0.29	0.27	0.34	0.19	0.22	0.27	0.42	0.25	0.32	





OCTOBER
OXYGEN

PERCENT OXYGEN SATURATION LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	97.5	98.5	98.1	100.8	98.4	98.9	99.3	100.9	99.5	99.6	103.6
10	98.4	98.8	98.2	101.3	98.2	99.1	99.5	100.8	99.7	100.1	101.5
20	98.3	99.2	98.2	101.3	98.3	99.7	99.5	100.0	99.9	96.0	89.3
30	98.2	99.9	98.3	101.3	98.4	100.1	100.5	99.1	96.4	89.7	77.8
50	101.5	102.6	102.0	103.4	100.5	102.5	96.0	89.5	84.4	69.5	59.3
75	99.9	103.2	102.6	104.0	99.3	97.6	85.1	74.1	63.7	57.9	
100	95.2	97.6	98.4	98.5	93.8	87.1	76.3	60.6	53.6	49.1	
125	93.9	93.7	93.6	92.4	84.4	72.4	69.1	52.1	45.1	44.7	
150	88.7	87.4	88.0	86.7	73.4	62.6	61.0	43.4	40.7	40.6	
200	78.9	72.3	76.0	71.0	54.3	51.6	50.7	36.1	35.0	32.6	
250	70.0	65.4	67.1	66.5	57.8	43.8	44.3	28.3	27.6	25.8	
300	66.1	56.3	64.1	54.8	51.1	37.2	35.1	22.2	20.7	21.6	
400	46.1	32.7	40.7	34.8	29.0	21.0	20.3	12.3	13.1	11.8	
500	24.5	16.2	21.6	19.4	13.8	11.4	11.4	8.1	7.5	7.9	

PERCENT OXYGEN SATURATION LINE 070 OCTOBER

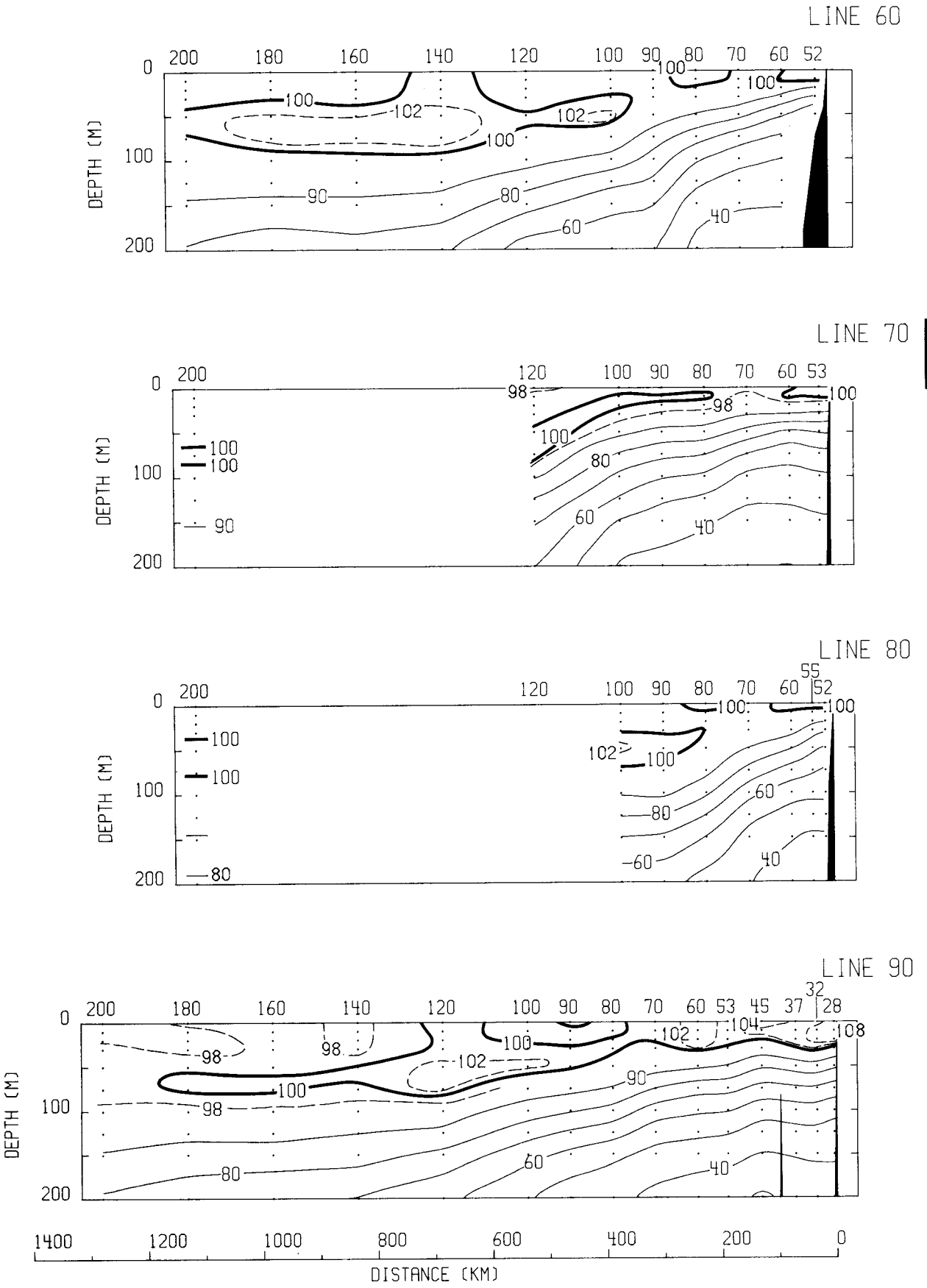
DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	98.8	96.3	99.6	99.6	99.7	96.7	98.4	102.0
10	99.4	99.0	100.4	100.3	100.4	96.7	101.3	102.3
20	99.0	98.7	100.1	99.2	99.2	97.5	97.8	96.3
30	98.5	99.0	99.5	97.7	97.2	90.5	91.8	89.0
50	97.4	100.5	93.3	87.1	86.9	77.2	65.7	70.5
75	102.0	101.0	78.6	72.3	70.5	58.2	52.9	57.6
100	97.4	92.2	66.8	60.5	58.5	46.5	46.2	48.5
125	94.4	79.6	58.9	50.8	48.0	41.3	41.3	43.5
150	90.8	71.9	48.3	45.2	41.3	35.6	36.4	39.0
200	82.0	60.3	38.0	36.1	34.3	30.7	29.2	31.5
250	71.9	45.3	31.8	29.4	26.9	24.6	24.0	25.7
300	65.1	35.1	24.9	23.6	20.6	21.9	20.4	20.2
400	41.0	21.0	14.5	14.7	12.0	12.3	11.8	13.9
500	20.2	11.0	8.2	8.1	7.0	7.5	7.3	9.3

PERCENT OXYGEN SATURATION LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	97.7	98.3	99.5	101.0	98.8	100.6	101.8	101.4
10	98.4	98.9	99.8	99.5	100.3	100.5	99.4	101.4
20	98.6	99.0	99.6	99.9	100.0	98.3	92.3	90.1
30	98.9	99.8	99.2	100.4	99.2	94.9	85.4	79.3
50	102.3	103.1	101.7	99.5	89.8	80.7	72.8	67.0
75	100.4	99.9	99.3	93.9	76.3	65.2	62.0	57.4
100	98.1	90.9	93.2	82.2	62.9	53.3	52.1	52.5
125	93.4	80.6	79.8	69.7	52.4	46.1	44.4	45.8
150	89.2	69.3	68.2	59.4	46.4	40.7	37.3	39.1
200	77.8	53.6	52.5	45.8	40.2	33.5	32.8	
250	68.4	43.7	41.7	36.6	33.3	27.2	25.4	
300	58.5	33.2	31.9	27.6	23.3	21.4	18.9	
400	31.9	18.6	16.0	13.8	12.2	12.2	12.0	
500	14.8	9.9	8.7	7.2	7.6	7.8	8.2	

PERCENT OXYGEN SATURATION LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	96.6	98.5	98.2	97.9	101.0	99.2	100.7	99.7	101.1	102.8	101.4	101.1	102.2	103.4	105.2
10	97.0	97.6	98.6	97.4	100.5	99.2	99.5	99.6	100.4	102.1	101.8	102.6	102.5	104.3	108.1
20	97.9	97.5	98.3	97.1	100.4	99.7	99.7	100.1	100.0	103.2	101.6	99.8	102.8	105.7	104.7
30	98.8	97.4	98.1	96.8	100.3	100.2	99.9	100.6	99.6	102.1	99.8	95.3	100.6	103.7	97.5
50	99.0	99.9	99.3	100.7	102.8	102.5	101.5	99.3	94.9	92.7	89.7	80.3	84.1	87.8	80.1
75	99.5	100.8	101.1	99.5	102.8	94.8	93.1	89.7	79.4	73.0	73.1	65.9	67.9	68.5	64.4
100	97.2	97.2	96.9	96.5	95.0	85.1	80.9	76.5	64.8	61.5	60.8	53.3	55.4	57.0	52.1
125	93.7	92.1	92.4	90.1	88.5	73.8	68.3	64.4	54.3	52.3	50.6	45.4	47.1	47.9	45.2
150	89.5	86.0	86.4	84.3	77.0	63.2	57.2	52.3	46.5	44.4	43.8	39.1	40.7	41.9	41.8
200	78.6	73.3	69.3	68.9	61.7	50.1	43.4	42.0	37.1	34.1	32.4	27.7	32.3	33.0	32.9
250	68.6	59.6	58.0	56.7	51.8	38.6	36.1	32.0	27.6	25.4	22.8	21.3	22.4	24.2	
300	58.5	50.0	47.2	45.9	39.8	27.7	26.2	22.9	20.6	17.8	17.4	16.8	16.9	18.7	
400	35.3	23.9	22.7	23.8	18.5	14.1	12.4	11.8	11.8	8.8	8.9	9.2	10.1	10.0	
500	13.8	11.2	10.3	10.5	8.6	7.5	6.9	6.2	8.0	5.2	5.9	5.7	6.0	6.1	



OCTOBER
PERCENT OXYGEN SATURATION

PERCENT OXYGEN SATURATION LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	97.9	101.1	100.2	97.2	99.9	101.8	99.8	101.1	100.5	103.9
10	98.4	99.7	99.4	98.5	100.9	100.9	101.0	99.7	100.4	102.3
20	99.0	100.3	99.1	98.5	99.8	101.5	101.9	101.5	100.7	93.6
30	99.3	101.1	99.2	98.7	100.2	102.7	102.0	103.7	100.7	86.1
50	100.2	103.1	102.5	100.7	102.0	102.9	91.1	98.3	93.7	68.6
75	101.6	102.1	100.3	97.9	93.0	91.0	75.3	83.7	76.4	58.4
100	98.0	94.7	91.8	88.4	80.2	78.0	61.8	65.9	63.7	50.1
125	91.1	87.5	83.1	76.9	71.2	64.9	48.2	53.6	53.1	42.9
150	84.6	78.1	72.7	64.2	62.0	52.7	39.4	46.1	43.0	35.6
200	66.2	57.3	51.4	46.1	44.4	41.7	28.9	37.0	32.8	26.4
250	54.0	42.3	40.0	34.5	34.2	31.4	22.6	28.3	23.0	19.9
300	42.7	32.3	30.1	23.5	25.4	24.2	17.5	20.7	13.3	17.3
400	21.0	16.6	14.4	10.8	12.2	12.0	9.7	11.0	7.8	
500	9.9	10.9	7.6	6.2	6.8	6.1	6.4	6.0	5.3	

PERCENT OXYGEN SATURATION LINE 110 OCTOBER

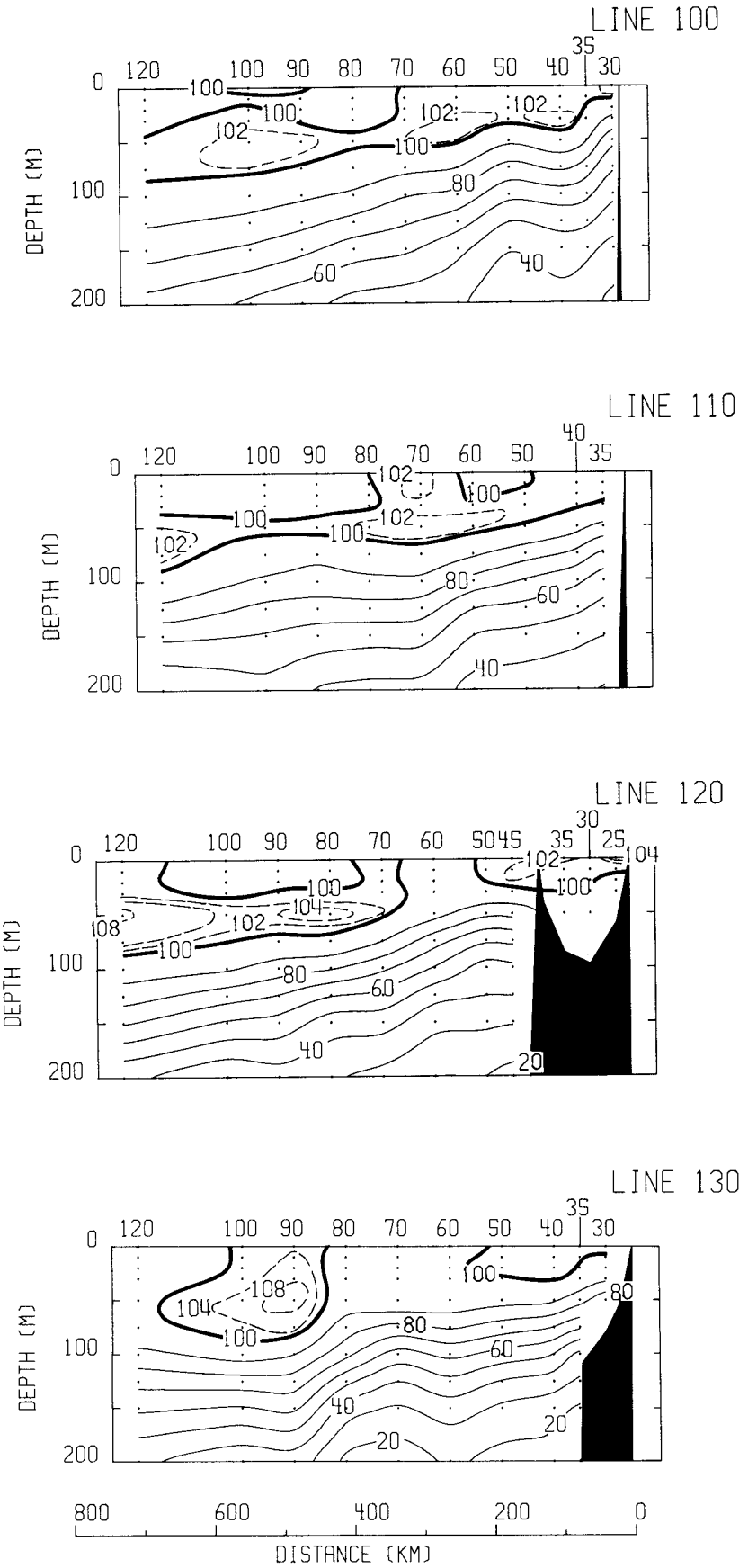
DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	99.2	98.6	98.4	99.8	103.7	97.8	100.1	101.2	100.2
10	99.3	100.5	98.5	99.8	103.5	99.7	99.6	100.4	100.6
20	99.1	99.7	98.9	99.3	102.1	99.4	100.1	101.6	100.1
30	98.9	98.6	99.4	99.0	101.7	99.5	101.7	101.8	100.9
50	102.0	101.0	100.6	102.4	104.5	103.5	101.3	94.7	86.6
75	103.0	96.3	91.3	97.7	98.1	92.3	84.4	78.4	65.6
100	98.5	88.0	86.2	87.4	88.7	76.2	68.7	62.2	53.3
125	87.8	76.5	74.7	76.6	75.2	58.6	57.4	52.5	46.8
150	72.3	69.1	65.8	63.7	64.6	48.9	47.1	43.2	39.7
200	48.4	56.7	47.8	46.5	46.6	34.7	33.2	31.0	28.5
250	31.9	43.0	34.8	33.7	32.8	24.8	22.0	20.4	20.4
300	23.1	28.4	22.1	24.5	23.6	17.8	15.4	15.0	14.6
400	12.2	14.8	11.9	13.0	10.7	8.6	8.1	9.6	10.0
500	5.7	7.6	6.1	6.3	5.8	5.6	4.8	5.6	7.1

PERCENT OXYGEN SATURATION LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	100.6	99.3	99.7	99.5	101.2	98.2	100.3	101.2	102.5	101.9	104.7
10	100.9	98.7	99.1	99.2	100.5	98.8	100.5	102.3	101.8	101.2	100.1
20	101.0	98.3	99.3	99.5	100.1	99.2	99.7	102.6	101.8	101.5	98.6
30	101.0	97.8	100.3	99.9	100.5	99.9	99.4	99.6	101.6	101.1	90.9
50	108.6	103.6	104.0	104.2	102.6	95.5	82.2	82.3	93.1	96.3	
75	104.6	100.7	98.4	100.3	91.9	73.4	59.7	62.6			
100	95.5	92.4	85.0	81.7	71.8	59.8	44.3	48.0			
125	85.3	74.1	69.5	59.3	58.1	42.4	40.5	40.9			
150	71.2	58.2	56.4	43.9	44.4	32.3	32.0	30.2			
200	40.9	30.0	35.8	30.0	26.6	18.9	19.6	16.0			
250	25.9	18.2	23.2	22.1	20.8	12.3	14.4	11.5			
300	17.9	13.9	14.2	14.1	15.1	9.5	10.3	9.7			
400	9.0	6.0	6.9	7.0	8.3	6.5	6.1	5.7			
500	4.8	3.5	5.0	5.3	5.0	4.6	4.6	3.8			

PERCENT OXYGEN SATURATION LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	95.2	100.8	103.4	98.8	99.2	98.5	100.2	102.8	101.4	102.9
10	95.7	100.5	105.9	95.0	99.3	99.6	100.5	101.4	99.5	98.6
20	95.8	100.6	106.4	94.4	98.7	99.9	100.7	101.7	100.0	97.0
30	95.8	100.7	107.3	94.3	99.9	99.2	100.4	101.3	100.8	93.2
50	98.8	105.8	110.3	95.5	100.8	97.3	94.5	93.9	82.7	68.3
75	98.9	103.7	106.7	84.0	75.6	82.5	74.9	70.2	60.4	
100	86.8	96.1	91.0	73.7	54.1	63.2	56.0	51.1	32.9	
125	73.1	75.2	76.6	51.8	37.7	48.8	38.0	35.4	27.9	
150	62.1	58.3	64.0	33.8	27.7	35.7	27.3	24.1	16.7	
200	40.6	31.4	35.2	15.9	12.8	21.1	15.8	16.1	10.2	
250	28.7	20.8	22.7	11.4	7.7	13.5	9.5	11.9	8.1	
300	19.4	13.5	12.7	8.7	6.0	8.3	7.6	7.4	6.0	
400	7.8	6.0	8.6	5.1	3.8	5.1	6.9	4.9	4.7	
500	4.2	4.0	5.0	2.8	3.2	4.0	6.2	3.6	4.7	



OCTOBER
PERCENT OXYGEN SATURATION

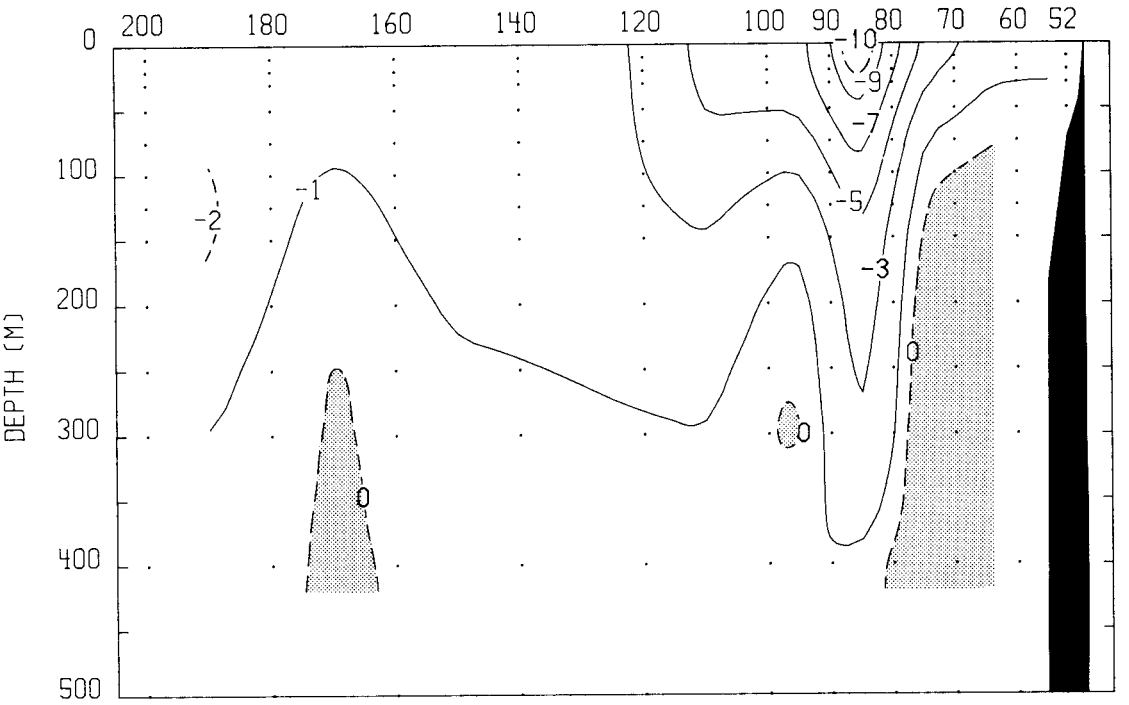
DYNAMIC HT ANOMALY (DYN. M) LINE 060 OCTOBER

DEPTH	60200	60180	60160	60140	60120	60100	60090	60080	60070	60060	60052
0	1.090	1.076	1.055	1.038	1.021	0.950	0.911	0.835	0.806	0.791	0.777
10	1.051	1.037	1.016	0.999	0.981	0.912	0.873	0.799	0.772	0.761	0.749
20	1.012	0.997	0.978	0.959	0.943	0.873	0.835	0.764	0.740	0.731	0.723
30	0.974	0.958	0.939	0.921	0.903	0.835	0.798	0.730	0.710	0.703	0.698
50	0.900	0.881	0.864	0.845	0.827	0.762	0.729	0.669	0.656	0.652	0.652
75	0.816	0.795	0.780	0.761	0.740	0.682	0.657	0.604	0.599	0.599	
100	0.742	0.718	0.707	0.687	0.664	0.613	0.595	0.550	0.549	0.550	
125	0.672	0.647	0.640	0.619	0.596	0.551	0.540	0.502	0.503	0.505	
150	0.606	0.580	0.576	0.556	0.535	0.497	0.491	0.457	0.461	0.464	
200	0.485	0.464	0.463	0.448	0.431	0.406	0.404	0.377	0.382	0.385	
250	0.382	0.366	0.367	0.357	0.344	0.326	0.327	0.303	0.310	0.312	
300	0.293	0.281	0.283	0.275	0.265	0.253	0.255	0.234	0.241	0.243	
400	0.136	0.130	0.132	0.129	0.124	0.120	0.112	0.108	0.115	0.116	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

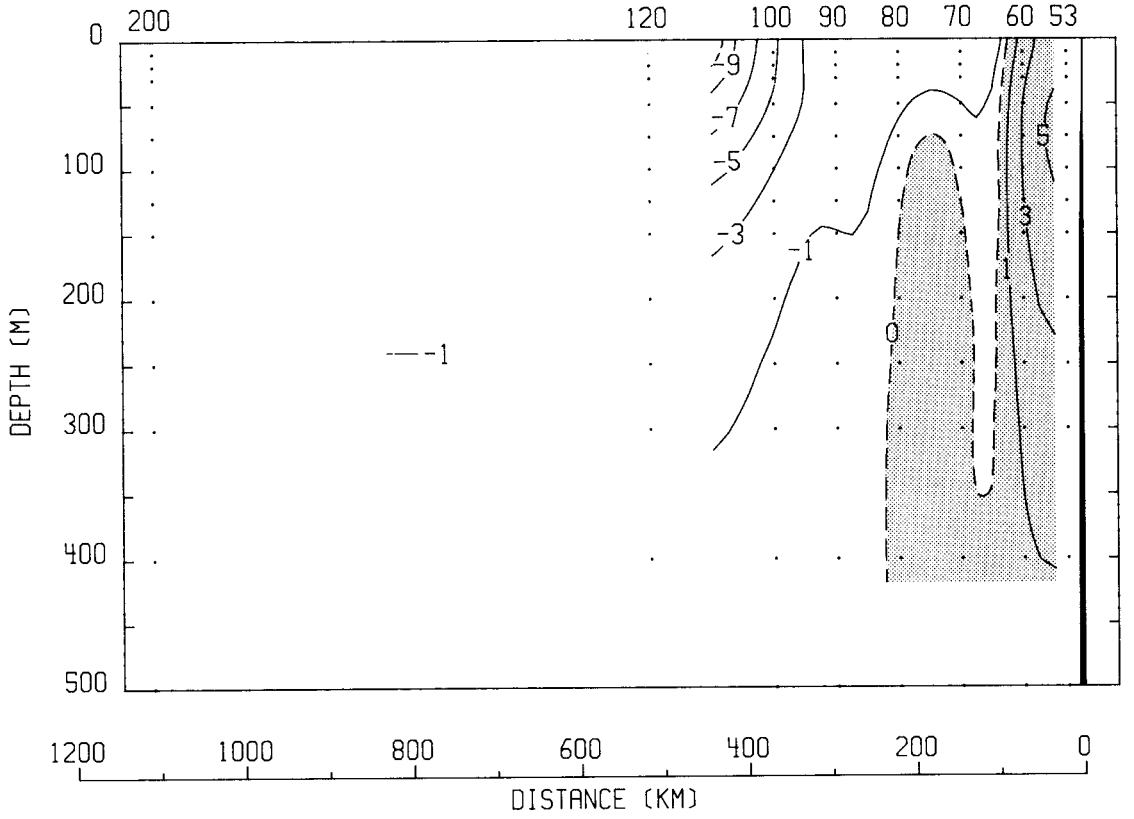
DYNAMIC HT ANOMALY (DYN. M) LINE 070 OCTOBER

DEPTH	70200	70120	70100	70090	70080	70070	70060	70053
0	1.101	1.019	0.879	0.864	0.846	0.833	0.817	0.833
10	1.063	0.979	0.844	0.828	0.812	0.800	0.785	0.803
20	1.025	0.938	0.808	0.792	0.778	0.767	0.755	0.774
30	0.987	0.897	0.775	0.758	0.744	0.736	0.725	0.746
50	0.913	0.819	0.712	0.696	0.683	0.680	0.671	0.695
75	0.826	0.730	0.644	0.630	0.620	0.621	0.614	0.638
100	0.749	0.654	0.583	0.574	0.565	0.569	0.564	0.586
125	0.678	0.586	0.531	0.523	0.516	0.522	0.517	0.539
150	0.611	0.527	0.483	0.478	0.471	0.478	0.474	0.494
200	0.488	0.425	0.397	0.394	0.389	0.397	0.394	0.409
250	0.382	0.339	0.320	0.318	0.314	0.321	0.318	0.330
300	0.291	0.263	0.249	0.247	0.245	0.251	0.248	0.257
400	0.134	0.124	0.118	0.117	0.117	0.117	0.118	0.122
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 60



LINE 70



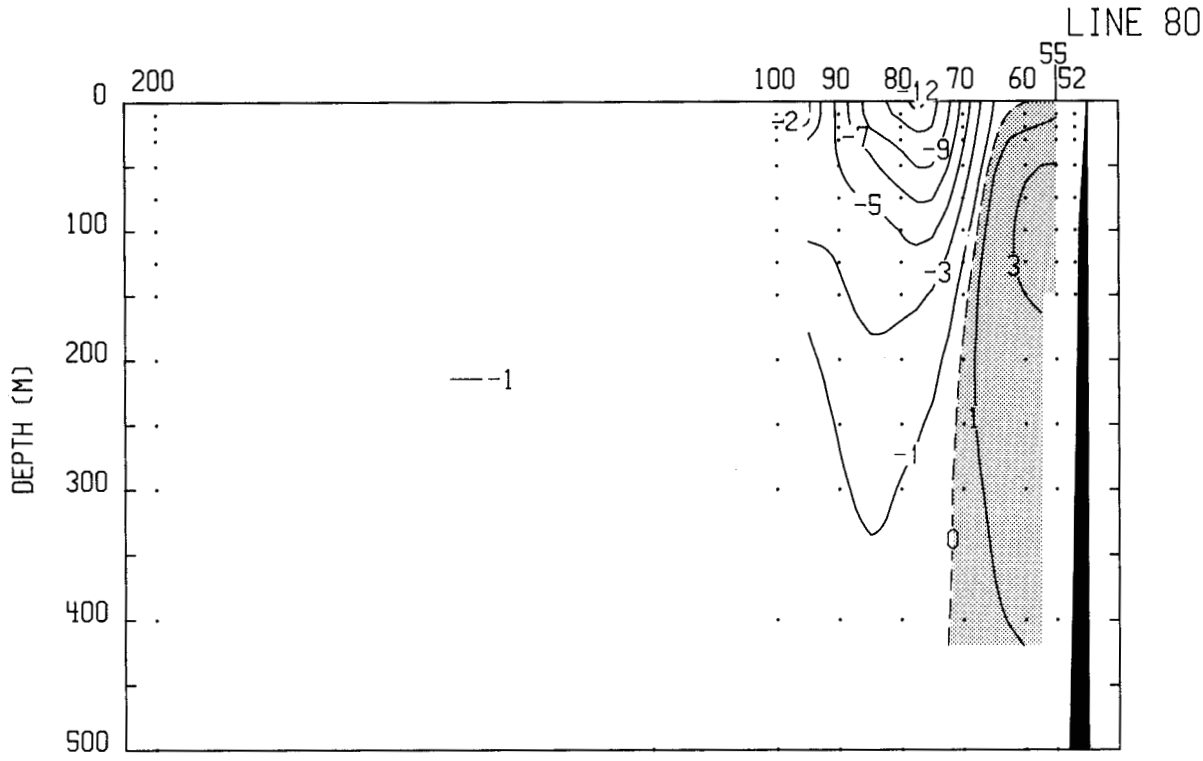
OCTOBER
GEOSTROPHIC FLOW (CM/S)

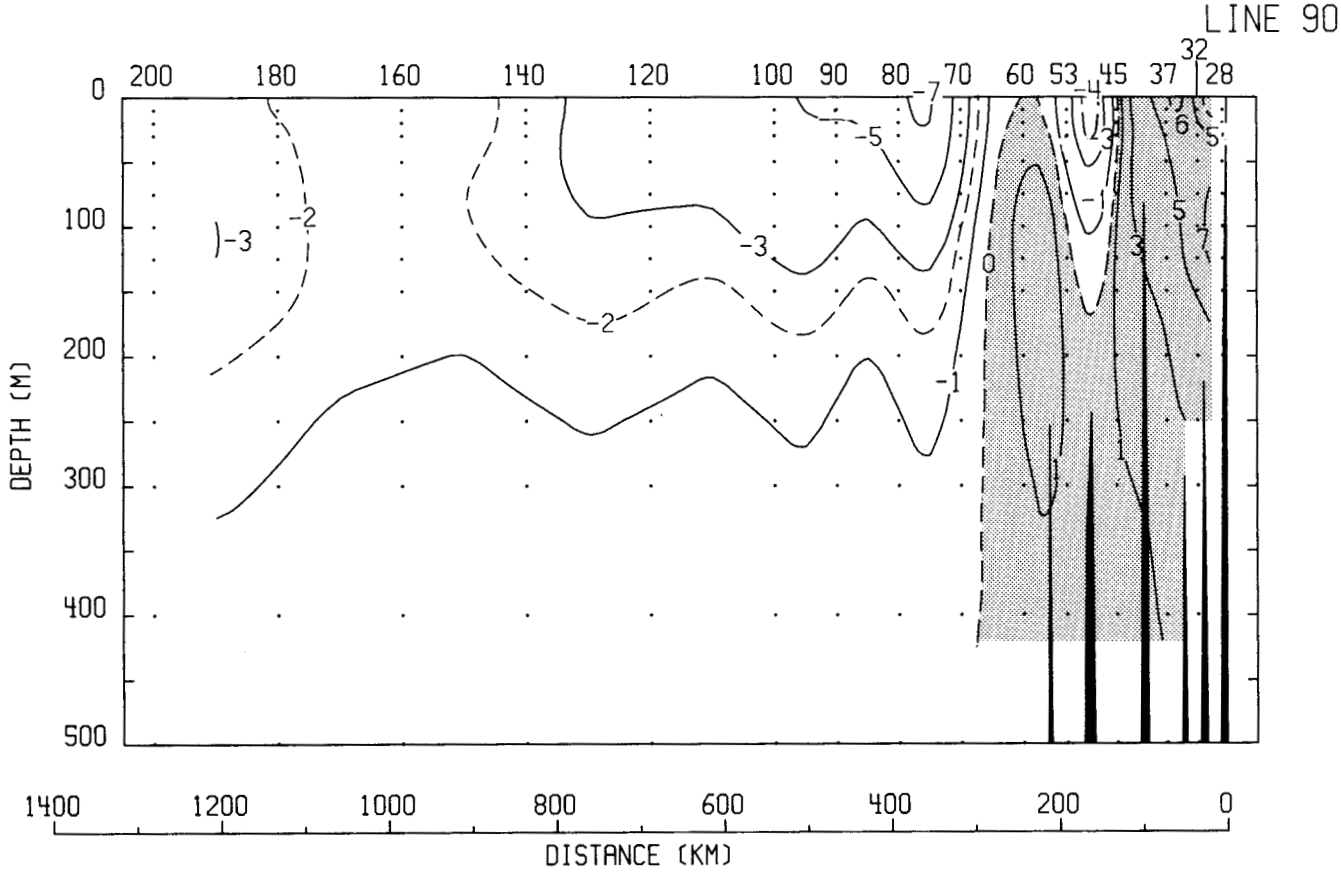
DYNAMIC HT ANOMALY (DYN. M) LINE 080 OCTOBER

DEPTH	80200	80100	80090	80080	80070	80060	80055	80052
0	1.089	0.990	0.984	0.922	0.845	0.843	0.843	0.847
10	1.050	0.951	0.945	0.885	0.810	0.810	0.811	0.814
20	1.013	0.912	0.906	0.847	0.776	0.777	0.780	0.783
30	0.975	0.873	0.855	0.810	0.742	0.746	0.752	0.755
50	0.903	0.799	0.779	0.740	0.681	0.689	0.699	0.704
75	0.821	0.716	0.694	0.664	0.617	0.628	0.640	0.647
100	0.745	0.642	0.620	0.597	0.561	0.576	0.588	
125	0.672	0.576	0.568	0.539	0.513	0.528	0.539	
150	0.602	0.517	0.511	0.487	0.469	0.484	0.494	
200	0.478	0.417	0.413	0.398	0.388	0.401	0.409	
250	0.375	0.332	0.330	0.319	0.314	0.325	0.331	
300	0.285	0.257	0.255	0.247	0.244	0.253	0.258	
400	0.131	0.120	0.120	0.116	0.114	0.120	0.124	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 090 OCTOBER

DEPTH	90200	90180	90160	90140	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	1.115	1.089	1.078	1.062	1.026	0.980	0.951	0.920	0.875	0.873	0.873	0.851	0.873	0.895	0.899
10	1.078	1.051	1.038	1.022	0.986	0.940	0.912	0.882	0.838	0.836	0.838	0.814	0.834	0.855	0.861
20	1.040	1.013	0.999	0.982	0.946	0.901	0.873	0.845	0.801	0.800	0.802	0.779	0.797	0.817	0.826
30	1.004	0.975	0.960	0.942	0.906	0.862	0.834	0.808	0.765	0.764	0.767	0.746	0.764	0.783	0.794
50	0.930	0.901	0.885	0.865	0.829	0.788	0.761	0.739	0.699	0.700	0.704	0.688	0.706	0.723	0.738
75	0.844	0.813	0.797	0.776	0.742	0.707	0.681	0.663	0.629	0.631	0.637	0.626	0.644	0.659	0.678
100	0.765	0.734	0.717	0.697	0.664	0.635	0.611	0.596	0.569	0.572	0.579	0.572	0.589	0.603	0.623
125	0.690	0.659	0.642	0.623	0.594	0.570	0.550	0.538	0.518	0.520	0.527	0.524	0.538	0.551	0.572
150	0.618	0.589	0.573	0.557	0.531	0.512	0.496	0.487	0.471	0.473	0.480	0.479	0.492	0.504	0.519
200	0.487	0.465	0.452	0.442	0.425	0.413	0.403	0.398	0.388	0.389	0.396	0.397	0.406	0.417	0.428
250	0.380	0.364	0.355	0.349	0.337	0.329	0.323	0.320	0.312	0.314	0.319	0.321	0.328	0.338	0.346
300	0.289	0.277	0.271	0.268	0.259	0.254	0.249	0.247	0.242	0.244	0.248	0.251	0.256	0.264	
400	0.132	0.128	0.125	0.125	0.121	0.119	0.117	0.117	0.115	0.115	0.119	0.120	0.121	0.129	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





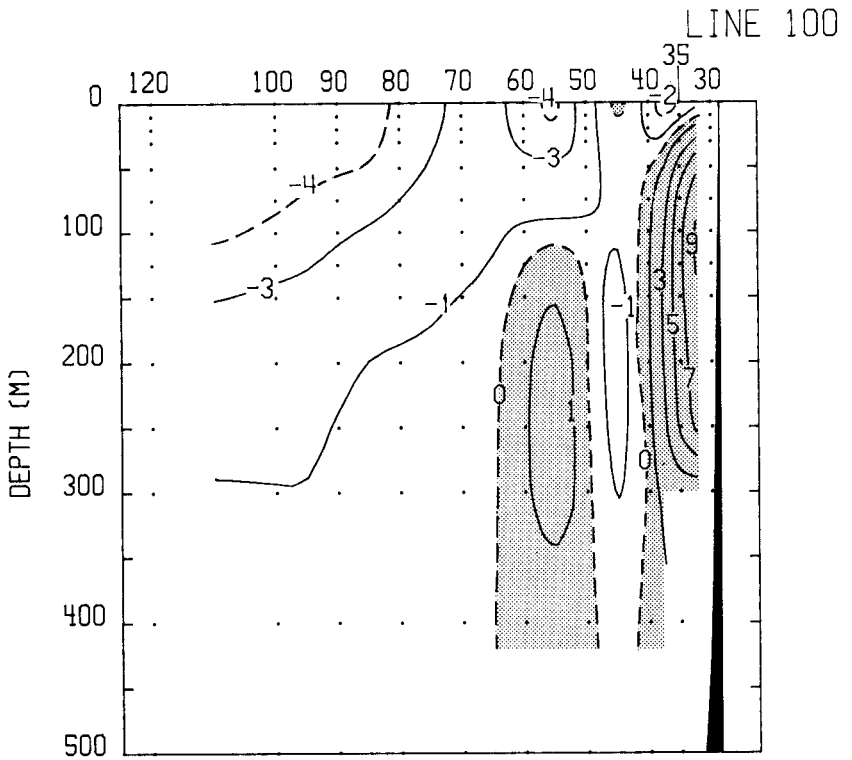
OCTOBER
GEOSTROPHIC FLOW (CM/S)

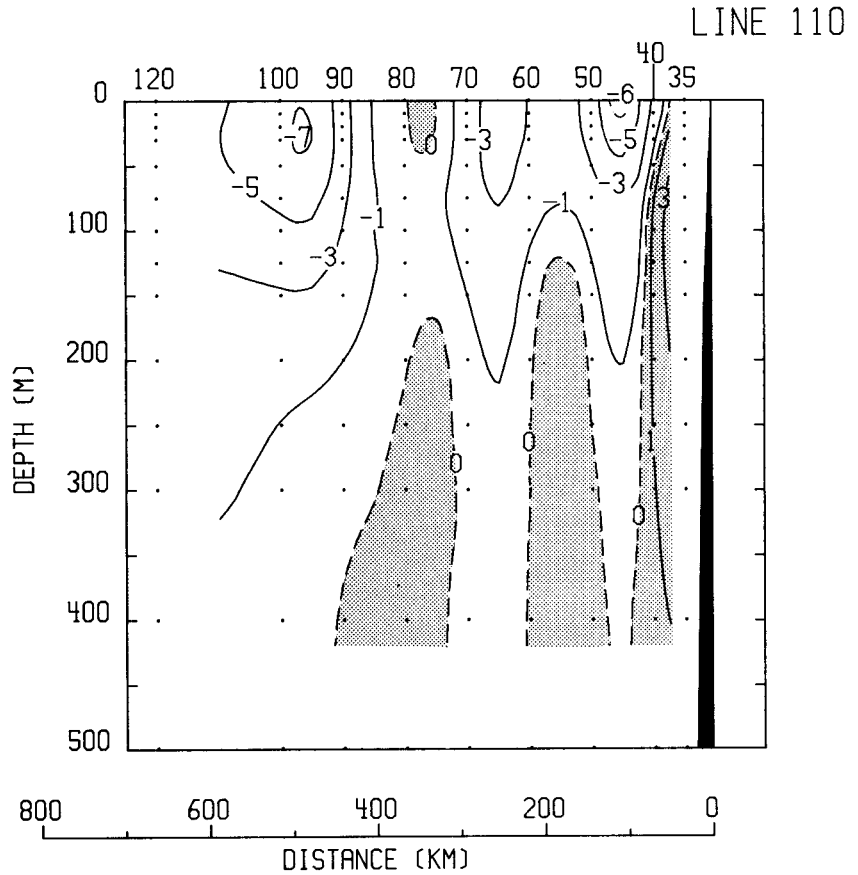
DYNAMIC HT ANOMALY (DYN. M) LINE 100 OCTOBER

DEPTH	100120	100100	100090	100080	100070	100060	100050	100040	100035	100030
0	1.071	1.023	1.002	0.977	0.960	0.946	0.924	0.924	0.916	0.911
10	1.031	0.982	0.961	0.937	0.920	0.906	0.884	0.884	0.876	0.876
20	0.991	0.942	0.921	0.897	0.881	0.867	0.845	0.844	0.837	0.843
30	0.952	0.902	0.881	0.857	0.841	0.827	0.807	0.805	0.801	0.814
50	0.876	0.826	0.804	0.782	0.767	0.756	0.740	0.736	0.737	0.759
75	0.787	0.739	0.718	0.700	0.686	0.679	0.668	0.663	0.668	0.696
100	0.706	0.662	0.643	0.627	0.615	0.608	0.606	0.601	0.608	0.638
125	0.631	0.592	0.575	0.563	0.554	0.549	0.551	0.545	0.553	0.583
150	0.561	0.529	0.516	0.506	0.500	0.496	0.502	0.495	0.504	0.531
200	0.446	0.424	0.415	0.410	0.406	0.404	0.412	0.405	0.414	0.439
250	0.351	0.337	0.330	0.327	0.325	0.324	0.332	0.325	0.332	0.357
300	0.268	0.259	0.254	0.253	0.251	0.250	0.258	0.252	0.257	0.262
400	0.124	0.121	0.119	0.119	0.118	0.117	0.120	0.119	0.121	
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

DYNAMIC HT ANOMALY (DYN. M) LINE 110 OCTOBER

DEPTH	110120	110100	110090	110080	110070	110060	110050	110040	110035
0	1.066	1.021	0.984	0.982	0.983	0.961	0.950	0.916	0.918
10	1.027	0.981	0.943	0.941	0.943	0.920	0.909	0.877	0.880
20	0.988	0.940	0.902	0.900	0.902	0.879	0.868	0.837	0.842
30	0.948	0.900	0.862	0.859	0.861	0.838	0.828	0.799	0.806
50	0.870	0.824	0.787	0.784	0.784	0.763	0.757	0.731	0.742
75	0.779	0.737	0.707	0.703	0.700	0.682	0.676	0.660	0.674
100	0.697	0.660	0.635	0.631	0.629	0.614	0.611	0.598	0.613
125	0.622	0.592	0.573	0.568	0.567	0.554	0.555	0.544	0.557
150	0.556	0.531	0.516	0.512	0.512	0.501	0.503	0.495	0.507
200	0.444	0.424	0.417	0.414	0.416	0.409	0.412	0.407	0.417
250	0.351	0.335	0.332	0.331	0.333	0.329	0.331	0.328	0.336
300	0.270	0.258	0.257	0.257	0.258	0.254	0.257	0.255	0.261
400	0.125	0.121	0.120	0.121	0.122	0.119	0.121	0.121	0.124
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000





OCTOBER
GEOSTROPHIC FLOW (CM/S)

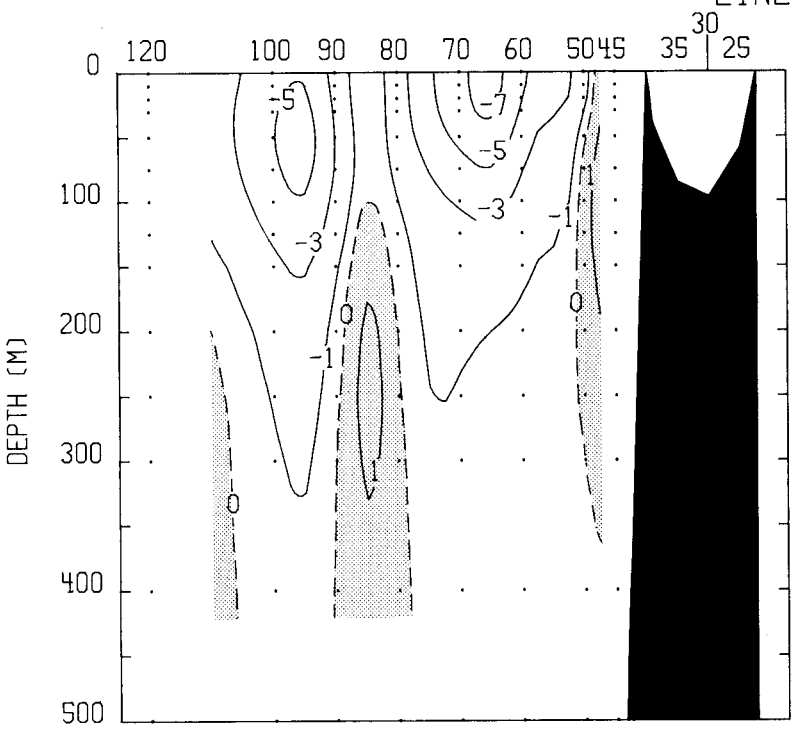
DYNAMIC HT ANOMALY (DYN. M) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045
0	1.043	1.026	1.002	1.004	0.981	0.940	0.920	0.922
10	1.003	0.985	0.959	0.962	0.939	0.898	0.879	0.881
20	0.962	0.944	0.916	0.919	0.897	0.856	0.839	0.841
30	0.921	0.903	0.874	0.877	0.855	0.816	0.800	0.803
50	0.843	0.826	0.795	0.797	0.777	0.743	0.731	0.736
75	0.753	0.738	0.709	0.710	0.695	0.669	0.659	0.665
100	0.672	0.659	0.634	0.637	0.625	0.605	0.598	0.604
125	0.599	0.591	0.569	0.573	0.563	0.550	0.544	0.550
150	0.534	0.529	0.512	0.518	0.509	0.500	0.496	0.500
200	0.425	0.426	0.415	0.423	0.416	0.411	0.408	0.411
250	0.337	0.340	0.331	0.340	0.334	0.331	0.329	0.331
300	0.260	0.263	0.256	0.263	0.259	0.257	0.256	0.256
400	0.121	0.123	0.120	0.124	0.122	0.122	0.121	0.121
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

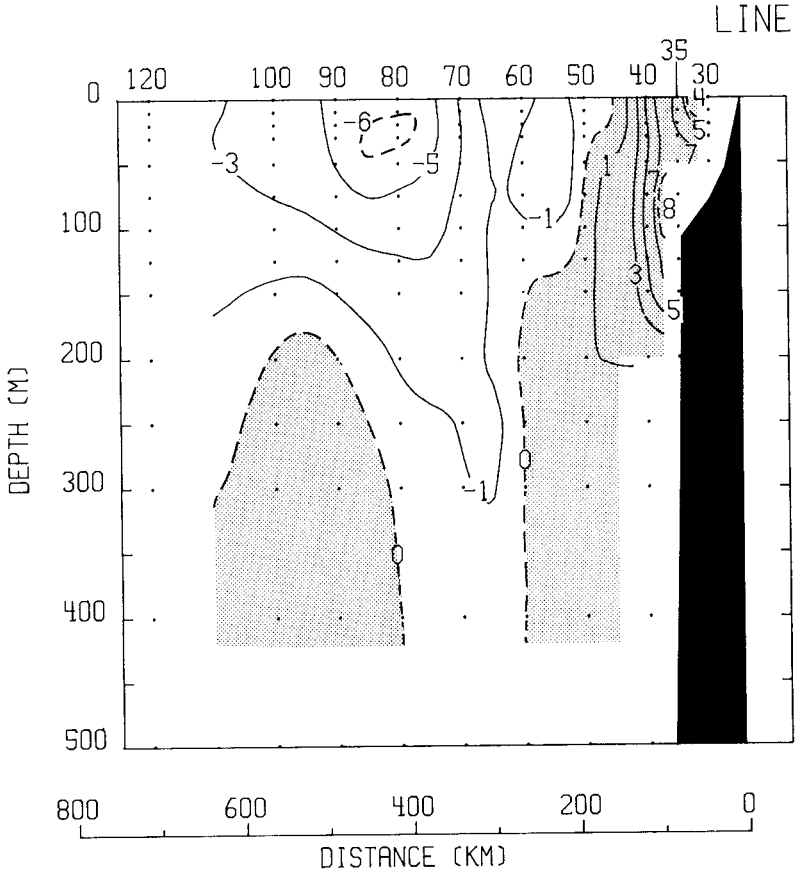
DYNAMIC HT ANOMALY (DYN. M) LINE 130 OCTOBER

DEPTH	130120	130100	130090	130080	130070	130060	130050	130040	130035	130030
0	1.057	1.034	1.013	0.987	0.960	0.962	0.957	0.957	0.982	0.985
10	1.015	0.991	0.971	0.944	0.917	0.917	0.911	0.911	0.936	0.941
20	0.974	0.949	0.929	0.901	0.873	0.873	0.866	0.867	0.889	0.899
30	0.932	0.906	0.887	0.859	0.831	0.830	0.823	0.824	0.845	0.859
50	0.851	0.826	0.808	0.780	0.756	0.753	0.746	0.751	0.771	0.791
75	0.757	0.737	0.721	0.697	0.678	0.674	0.667	0.674	0.698	
100	0.671	0.655	0.644	0.626	0.609	0.606	0.601	0.610	0.633	
125	0.596	0.583	0.577	0.565	0.551	0.548	0.547	0.554	0.574	
150	0.531	0.521	0.519	0.512	0.500	0.496	0.497	0.504	0.523	
200	0.424	0.418	0.420	0.419	0.409	0.405	0.409	0.414	0.416	
250	0.336	0.333	0.336	0.336	0.334	0.326	0.330	0.333		
300	0.258	0.257	0.260	0.261	0.259	0.253	0.256	0.258		
400	0.120	0.121	0.122	0.123	0.122	0.119	0.121	0.121		
500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

LINE 120



LINE 130



OCTOBER
GEOSTROPHIC FLOW (CM/S)

STD. DEV. OF TEMPERATURE (DEG. C) LINE 060 JANUARY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.96	1.08	0.85	1.33	0.68	0.80	0.94
	6	10	11	12	13	16	13
10	0.96	1.11	0.86	1.34	0.69	0.78	0.81
	6	10	11	11	13	16	13
20	0.93	1.13	0.86	1.36	0.74	0.77	0.85
	6	10	11	12	13	16	13
30	0.94	1.14	0.87	1.37	0.76	0.82	0.93
	6	10	11	12	13	16	13
50	1.00	1.13	1.04	1.39	0.78	1.10	0.90
	6	10	11	12	13	16	13
75	1.62	1.43	1.02	1.08	0.74	1.08	
	6	10	11	12	13	16	
100	1.41	0.91	0.61	0.79	0.33	0.91	
	6	10	11	12	13	16	
125	0.97	0.78	0.46	0.45	0.32	0.60	
	6	10	11	12	13	16	
150	0.79	0.66	0.51	0.24	0.37	0.42	
	6	10	11	12	13	16	
200	0.38	0.54	0.57	0.31	0.28	0.35	
	6	10	11	12	13	16	
250	0.36	0.50	0.59	0.24	0.24	0.35	
	6	10	11	12	13	16	
300	0.31	0.52	0.66	0.24	0.23	0.36	
	6	10	11	12	13	16	
400	0.27	0.56	0.68	0.28	0.20	0.28	
	6	10	11	12	13	16	
500	0.16	0.45	0.56	0.20	0.19	0.18	
	6	10	11	11	12	16	

STD. DEV. OF SALINITY (PPT) LINE 060 JANUARY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.18	0.40	0.23	0.21	0.19	0.25	0.51
	6	10	11	12	13	15	13
10	0.18	0.31	0.22	0.20	0.19	0.25	0.39
	6	10	11	11	13	15	13
20	0.18	0.34	0.23	0.21	0.19	0.19	0.22
	6	10	11	12	13	15	13
30	0.19	0.28	0.23	0.21	0.19	0.17	0.15
	6	10	11	12	13	15	13
50	0.20	0.18	0.24	0.16	0.16	0.16	0.12
	6	10	11	12	13	15	13
75	0.20	0.21	0.27	0.19	0.15	0.13	
	6	10	11	12	13	15	
100	0.24	0.21	0.27	0.18	0.13	0.13	
	6	10	11	12	13	15	
125	0.14	0.22	0.17	0.15	0.10	0.10	
	6	10	11	12	13	15	
150	0.16	0.19	0.10	0.11	0.06	0.08	
	6	10	11	12	13	15	
200	0.07	0.07	0.04	0.04	0.04	0.05	
	6	10	11	12	13	15	
250	0.03	0.04	0.04	0.02	0.04	0.04	
	6	10	11	12	13	15	
300	0.04	0.04	0.03	0.04	0.04	0.04	
	6	10	11	12	13	15	
400	0.05	0.04	0.04	0.04	0.04	0.04	
	6	10	11	12	13	15	
500	0.03	0.04	0.03	0.03	0.05	0.04	
	6	10	11	11	12	15	

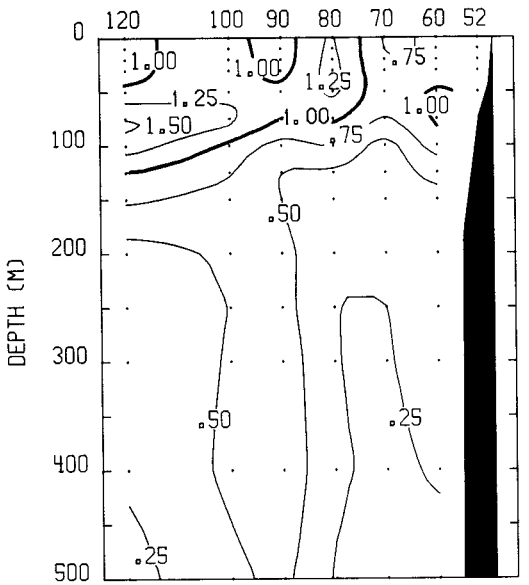
STD. DEV. OF SIGMA-T LINE 060 JANUARY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.17	0.35	0.28	0.29	0.26	0.24	0.43
	6	10	11	12	13	15	13
10	0.16	0.30	0.27	0.27	0.25	0.25	0.37
	6	10	11	11	13	15	13
20	0.16	0.33	0.27	0.31	0.25	0.24	0.27
	6	10	11	12	13	15	13
30	0.16	0.31	0.28	0.31	0.26	0.23	0.22
	6	10	11	12	13	15	13
50	0.16	0.28	0.34	0.30	0.25	0.27	0.22
	6	10	11	12	13	15	13
75	0.22	0.37	0.35	0.29	0.23	0.26	
	6	10	11	12	13	15	
100	0.16	0.29	0.28	0.26	0.15	0.23	
	6	10	11	12	13	15	
125	0.19	0.28	0.19	0.17	0.11	0.16	
	6	10	11	12	13	15	
150	0.22	0.22	0.13	0.11	0.09	0.11	
	6	10	11	12	13	15	
200	0.10	0.12	0.09	0.06	0.05	0.08	
	6	10	11	12	13	15	
250	0.06	0.08	0.09	0.03	0.04	0.05	
	6	10	11	12	13	15	
300	0.05	0.07	0.09	0.03	0.04	0.05	
	6	10	11	12	13	15	
400	0.05	0.06	0.08	0.02	0.03	0.04	
	6	10	11	12	13	15	
500	0.03	0.05	0.07	0.02	0.03	0.03	
	6	10	11	11	12	15	

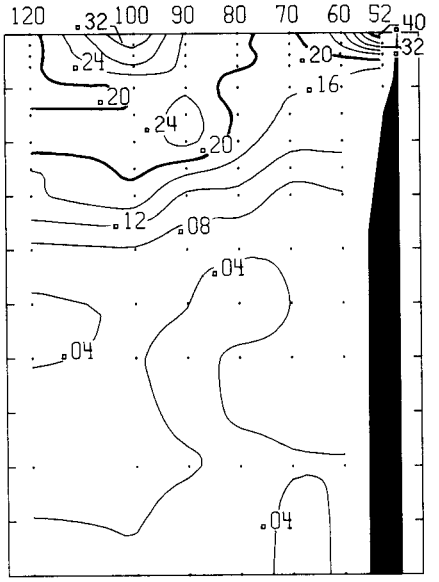
STD. DEV. OF OXYGEN (ML/L) LINE 060 JANUARY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.17	0.20	0.20	0.27	0.20	0.43	0.41
	4	9	7	11	9	13	11
10	0.21	0.20	0.22	0.31	0.22	0.35	0.37
	4	9	7	10	9	13	11
20	0.14	0.18	0.22	0.27	0.22	0.52	0.24
	4	9	7	11	9	13	11
30	0.12	0.16	0.22	0.24	0.25	0.41	0.27
	4	9	7	11	8	13	11
50	0.08	0.17	0.24	0.25	0.30	0.46	0.59
	4	9	7	11	9	13	11
75	0.19	0.63	0.58	0.67	0.54	0.62	
	4	9	7	11	9	13	
100	0.30	1.00	0.87	0.73	0.56	0.60	
	4	9	7	11	9	13	
125	0.54	1.03	0.70	0.61	0.56	0.44	
	4	9	7	11	9	13	
150	0.73	0.97	0.64	0.68	0.38	0.40	
	4	9	7	11	9	13	
200	0.38	0.94	0.73	0.42	0.49	0.39	
	4	9	7	11	9	13	
250	0.78	0.81	0.92	0.56	0.43	0.36	
	4	9	7	10	9	13	
300	0.77	0.63	0.63	0.51	0.41	0.38	
	4	8	7	10	9	13	
400	0.36	0.37	0.39	0.27	0.21	0.17	
	4	8	7	10	9	13	
500	0.21	0.22	0.17	0.18	0.14	0.11	
	4	8	7	9	8	13	

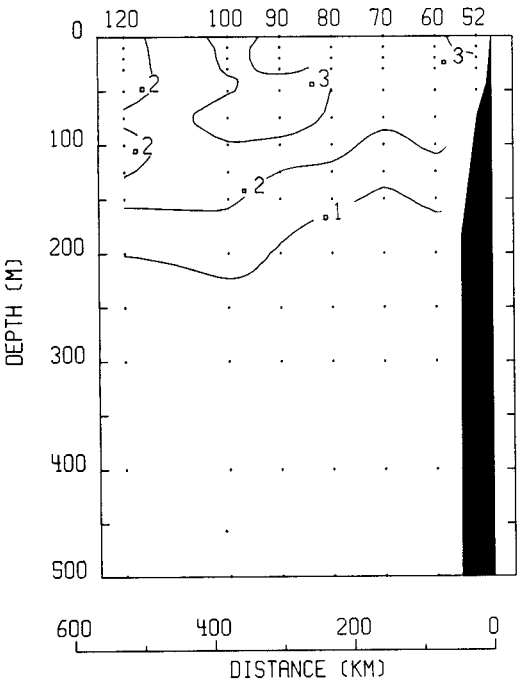
JANUARY LINE 60



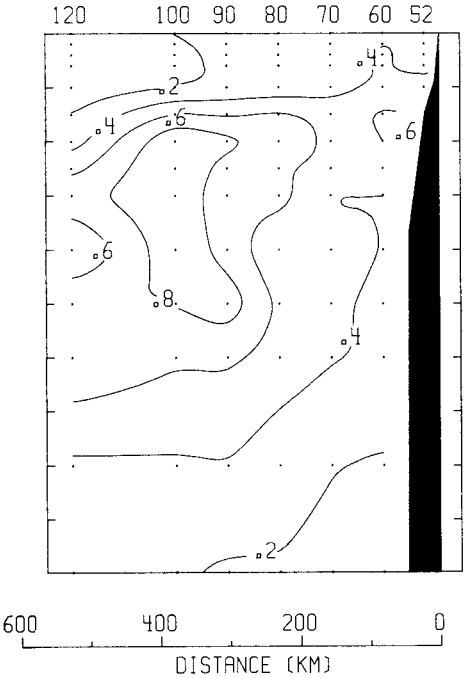
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 090 JANUARY

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.64	0.69	0.96	0.89	0.75	1.05	1.21	1.14	0.95	0.93	0.80
	8	12	18	17	20	19	18	18	19	17	14
10	0.65	0.71	0.96	0.92	0.74	1.10	1.19	1.14	0.93	0.96	0.88
	8	12	18	17	20	19	18	18	19	17	14
20	0.66	0.74	0.98	0.94	0.78	1.11	1.23	1.21	0.96	1.01	0.98
	8	12	18	17	20	19	18	18	19	17	14
30	0.67	0.80	1.01	0.93	0.80	1.14	1.29	1.48	1.02	1.18	1.12
	8	12	18	17	20	19	18	18	19	17	14
50	0.87	0.88	1.21	1.00	0.90	1.29	1.28	1.78	1.33	1.40	1.12
	8	12	18	17	20	19	18	18	19	17	13
75	0.90	1.37	1.60	1.55	1.05	1.25	1.15	1.33	0.97	1.03	0.97
	8	12	18	17	20	18	18	18	19	17	11
100	1.32	1.57	1.73	1.70	0.90	0.77	0.89	0.88	0.68	0.75	0.76
	8	12	18	17	20	18	18	18	18	17	10
125	1.20	1.13	1.59	1.02	0.66	0.48	0.55	0.68	0.49	0.64	0.70
	8	12	18	17	20	18	18	18	18	17	9
150	1.02	0.75	1.09	0.51	0.56	0.36	0.43	0.58	0.49	0.60	0.44
	8	12	18	17	20	18	18	18	18	17	9
200	0.56	0.41	0.43	0.39	0.28	0.35	0.34	0.45	0.43	0.41	0.29
	8	12	18	17	19	18	18	18	18	17	9
250	0.37	0.35	0.38	0.37	0.31	0.38	0.28	0.37	0.37	0.48	
	8	12	18	17	19	18	17	18	18	17	
300	0.37	0.32	0.36	0.36	0.27	0.43	0.28	0.28	0.33	0.36	
	8	12	18	17	19	18	17	18	18	17	
400	0.36	0.37	0.30	0.34	0.21	0.33	0.20	0.21	0.22	0.25	
	8	12	18	17	19	18	16	17	18	14	
500	0.28	0.33	0.22	0.28	0.18	0.19	0.20	0.21	0.14	0.17	
	8	12	16	17	19	18	15	16	18	11	

STD. DEV. OF SALINITY (PPT) LINE 090 JANUARY

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.09	0.19	0.20	0.20	0.19	0.12	0.13	0.14	0.12	0.14	0.19
	7	11	17	16	19	18	17	17	18	16	14
10	0.09	0.19	0.19	0.20	0.19	0.12	0.12	0.14	0.14	0.14	0.18
	7	11	17	16	19	18	17	17	18	16	14
20	0.09	0.18	0.18	0.19	0.18	0.13	0.12	0.14	0.13	0.14	0.15
	7	11	17	16	19	18	17	17	18	16	14
30	0.09	0.19	0.16	0.18	0.17	0.13	0.13	0.14	0.12	0.13	0.13
	7	11	17	16	19	18	17	17	18	16	14
50	0.13	0.18	0.17	0.17	0.16	0.13	0.15	0.15	0.13	0.12	0.10
	7	11	17	16	19	18	17	17	18	16	13
75	0.11	0.19	0.20	0.18	0.18	0.12	0.18	0.15	0.13	0.10	0.14
	7	11	17	16	19	17	17	17	18	16	11
100	0.12	0.22	0.17	0.19	0.17	0.15	0.16	0.13	0.11	0.11	0.13
	7	11	17	16	19	17	17	17	17	16	10
125	0.15	0.19	0.14	0.18	0.18	0.13	0.12	0.10	0.10	0.11	0.11
	7	11	17	16	19	17	17	17	17	16	9
150	0.16	0.17	0.14	0.17	0.15	0.12	0.08	0.10	0.09	0.10	0.08
	7	11	17	16	19	17	17	17	17	16	9
200	0.06	0.07	0.11	0.08	0.04	0.06	0.05	0.05	0.07	0.08	0.03
	7	11	17	16	18	17	17	17	17	16	9
250	0.05	0.05	0.06	0.04	0.04	0.06	0.04	0.05	0.06	0.04	
	7	11	17	16	18	17	16	17	17	16	
300	0.07	0.04	0.04	0.04	0.05	0.06	0.03	0.04	0.04	0.05	
	7	11	17	16	18	17	16	17	17	16	
400	0.07	0.06	0.04	0.05	0.06	0.06	0.04	0.02	0.03	0.04	
	7	11	17	16	18	17	15	16	17	13	
500	0.05	0.04	0.03	0.06	0.04	0.04	0.03	0.02	0.03	0.04	
	7	11	15	16	18	17	14	15	17	11	

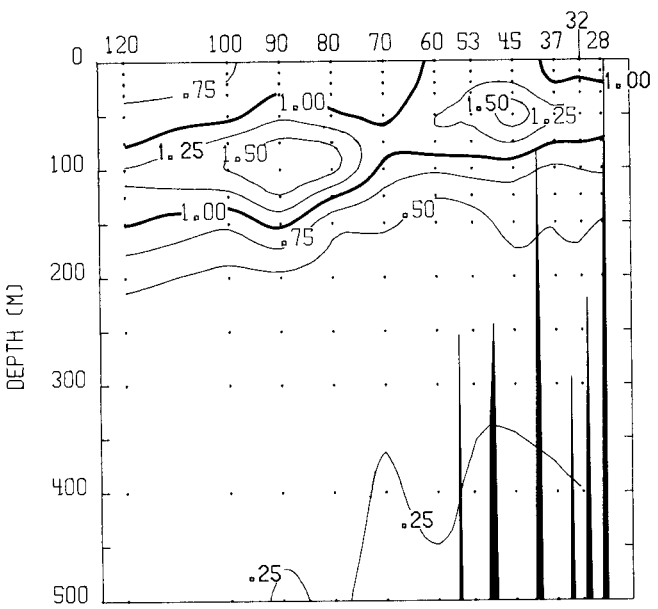
STD. DEV. OF SIGMA-T LINE 090 JANUARY

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.10	0.19	0.21	0.18	0.20	0.20	0.24	0.21	0.19	0.19	0.18
	7	11	17	16	19	18	17	17	18	16	14
10	0.09	0.19	0.21	0.19	0.20	0.22	0.25	0.22	0.19	0.18	0.18
	7	11	17	16	19	18	17	17	18	16	14
20	0.10	0.20	0.20	0.19	0.20	0.21	0.26	0.24	0.19	0.18	0.18
	7	11	17	16	19	18	17	17	18	16	14
30	0.10	0.21	0.21	0.18	0.20	0.21	0.27	0.29	0.20	0.21	0.20
	7	11	17	16	19	18	17	17	18	16	13
50	0.12	0.25	0.22	0.18	0.20	0.21	0.27	0.35	0.26	0.23	0.20
	7	11	17	16	19	18	17	17	18	16	11
75	0.15	0.29	0.25	0.31	0.25	0.27	0.26	0.29	0.22	0.21	0.23
	7	11	17	16	19	17	17	17	18	16	10
100	0.20	0.32	0.32	0.36	0.24	0.22	0.24	0.22	0.17	0.17	0.21
	7	11	17	16	19	17	17	17	17	16	9
125	0.18	0.27	0.34	0.27	0.23	0.15	0.16	0.17	0.14	0.15	0.19
	7	11	17	16	19	17	17	17	17	16	9
150	0.14	0.23	0.28	0.21	0.19	0.12	0.12	0.15	0.12	0.13	0.12
	7	11	17	16	19	17	17	17	17	16	9
200	0.12	0.11	0.14	0.11	0.07	0.07	0.07	0.09	0.09	0.08	0.06
	7	11	17	16	18	17	17	17	17	16	9
250	0.05	0.07	0.08	0.07	0.05	0.06	0.05	0.06	0.06	0.06	
	7	11	17	16	18	17	16	17	17	16	
300	0.04	0.05	0.06	0.04	0.04	0.06	0.04	0.05	0.05	0.05	
	7	11	17	16	18	17	16	17	17	16	
400	0.03	0.04	0.04	0.03	0.03	0.05	0.03	0.03	0.03	0.04	
	7	11	17	16	18	17	15	16	17	13	
500	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	
	7	11	15	16	18	17	14	15	17	11	

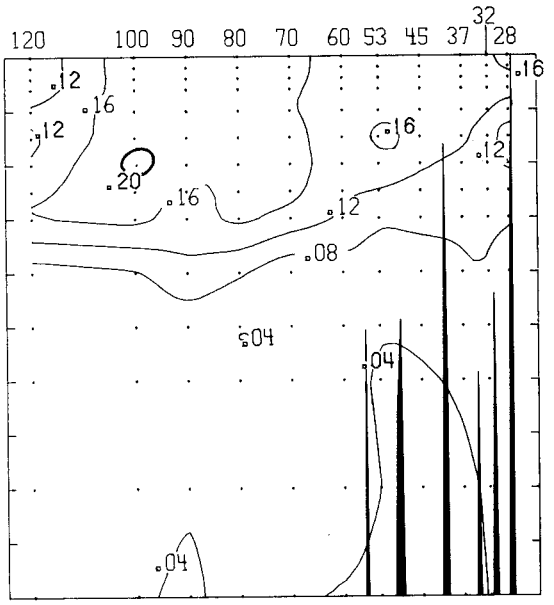
STD. DEV. OF OXYGEN (ML/L) LINE 090 JANUARY

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.29	0.37	0.27	0.43	0.26	0.31	0.26	0.26	0.30	0.26	0.45
	7	10	12	14	12	14	11	12	13	11	8
10	0.32	0.39	0.28	0.30	0.24	0.30	0.32	0.28	0.31	0.30	0.28
	7	10	12	14	12	14	11	12	13	11	8
20	0.33	0.32	0.28	0.28	0.25	0.30	0.36	0.27	0.33	0.34	0.27
	7	10	12	14	12	14	12	12	13	11	8
30	0.30	0.29	0.29	0.29	0.25	0.32	0.34	0.48	0.33	0.41	0.30
	7	10	12	14	12	14	12	12	13	11	8
50	0.26	0.27	0.23	0.31	0.36	0.45	0.31	0.74	0.42	0.54	0.51
	7	10	12	14	12	13	12	12	13	11	8
75	0.22	0.49	0.26	0.57	0.56	0.59	0.51	0.60	0.55	0.48	0.66
	7	10	12	14	12	13	12	12	13	11	7
100	0.27	0.65	0.44	0.59	0.62	0.62	0.50	0.58	0.50	0.43	0.58
	7	10	12	14	12	13	12	12	12	11	6
125	0.34	0.68	0.62	0.58	0.66	0.72	0.46	0.49	0.41	0.44	0.31
	7	10	12	14	12	13	12	12	12	11	5
150	0.42	0.71	0.60	0.47	0.67	0.69	0.41	0.41	0.41	0.44	0.14
	7	10	12	14	12	13	12	12	12	11	5
200	0.39	0.52	0.73	0.31	0.39	0.62	0.45	0.32	0.37	0.28	0.26
	7	10	12	14	11	13	12	12	12	11	5
250	0.57	0.64	0.58	0.37	0.40	0.49	0.33	0.25	0.23	0.18	
	7	10	12	14	11	13	12	12	12	11	
300	0.60	0.51	0.50	0.30	0.35	0.38	0.22	0.22	0.19	0.13	
	7	10	12	14	11	13	12	12	12	11	
400	0.47	0.31	0.19	0.21	0.18	0.18	0.12	0.12	0.13	0.07	
	7	10	12	14	11	13	11	11	12	10	
500	0.26	0.17	0.15	0.14	0.12	0.10	0.10	0.10	0.09	0.10	
	7	9	10	14	11	13	9	10	12	9	

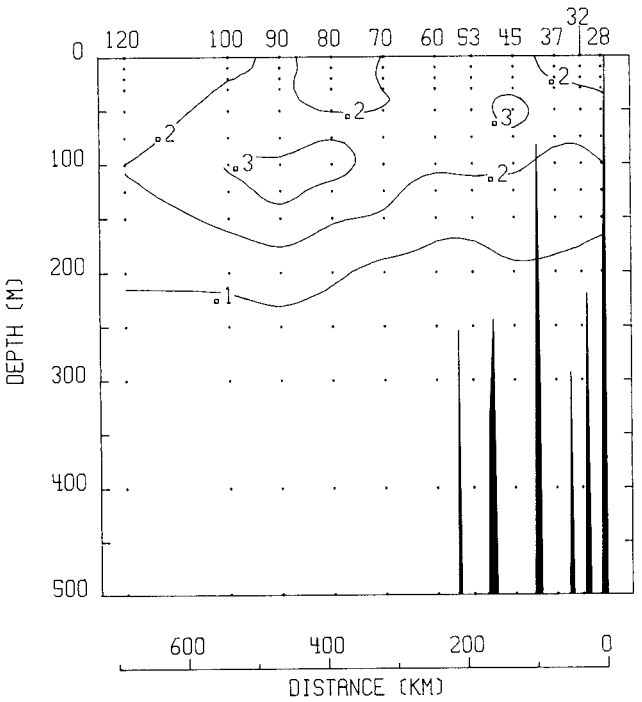
JANUARY LINE 90



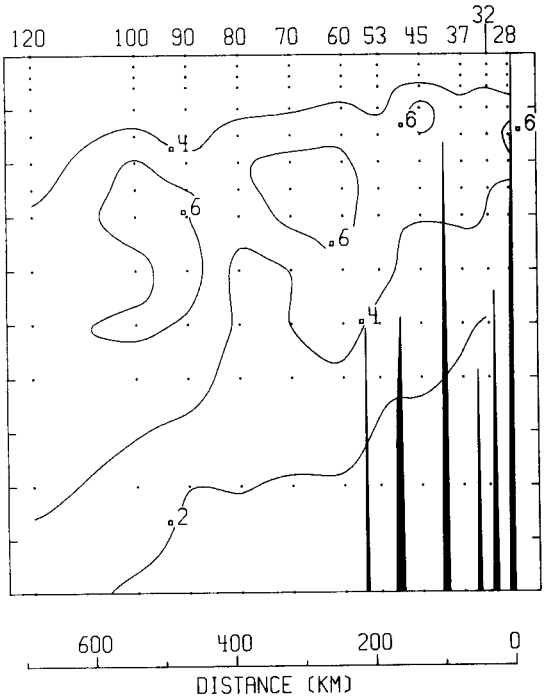
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.47	0.57	0.79	1.13	0.95	0.92	1.08	1.31	1.27	1.48	1.05
	6	8	12	16	20	18	18	20	11	7	7
10	0.46	0.57	0.76	1.09	0.95	0.92	1.07	1.31	1.24	1.51	1.09
	6	8	12	16	19	18	18	20	11	7	7
20	0.44	0.56	0.74	1.07	0.97	0.92	1.05	1.33	1.25	1.52	1.26
	6	8	12	16	20	18	18	20	11	7	7
30	0.43	0.57	0.73	1.06	0.99	0.97	1.08	1.35	1.30	1.58	1.66
	6	8	12	15	20	18	18	20	11	7	6
50	0.52	0.56	0.85	0.98	1.14	1.05	1.37	1.75	1.24	1.83	
	6	8	12	16	20	18	18	20	9	7	
75	0.46	0.74	1.41	1.23	1.58	1.53	1.90	1.35			
	6	8	12	16	20	18	18	19			
100	1.14	0.95	1.40	1.31	1.38	1.14	1.04	0.82			
	6	8	12	16	20	18	18	19			
125	1.18	1.04	1.08	1.34	0.94	0.87	0.86	0.69			
	6	8	12	16	20	18	18	19			
150	0.90	0.73	0.73	0.87	0.68	0.75	0.75	0.61			
	6	7	12	16	20	18	18	19			
200	0.34	0.24	0.74	0.77	0.63	0.65	0.72	0.45			
	6	7	12	15	20	17	17	19			
250	0.36	0.54	0.83	0.71	0.55	0.56	0.55	0.41			
	6	7	11	15	19	17	17	19			
300	0.50	0.44	0.84	0.75	0.58	0.53	0.52	0.36			
	5	7	11	14	19	16	17	19			
400	0.33	0.40	0.83	0.53	0.40	0.33	0.40	0.33			
	5	7	11	14	19	15	17	19			
500	0.20	0.23	0.63	0.36	0.25	0.25	0.29	0.25			
	5	8	11	14	19	14	16	19			

STD. DEV. OF SALINITY (PPT) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.18	0.15	0.22	0.26	0.18	0.19	0.22	0.25	0.25	0.18	0.16
	6	7	11	15	19	17	16	19	10	7	7
10	0.18	0.16	0.21	0.23	0.17	0.20	0.22	0.25	0.25	0.18	0.14
	6	7	11	15	18	17	16	19	10	7	7
20	0.17	0.16	0.21	0.22	0.18	0.20	0.23	0.25	0.26	0.19	0.17
	6	7	11	15	19	17	16	19	10	7	7
30	0.17	0.17	0.20	0.23	0.18	0.21	0.23	0.25	0.26	0.18	0.21
	6	7	11	15	19	17	16	19	10	7	7
50	0.16	0.16	0.17	0.23	0.19	0.24	0.26	0.26	0.24	0.19	
	6	7	11	15	19	17	16	19	9	7	
75	0.14	0.19	0.21	0.24	0.17	0.20	0.31	0.21			
	6	7	11	15	19	17	16	18			
100	0.12	0.14	0.20	0.16	0.17	0.20	0.18	0.13			
	6	7	11	15	19	17	16	18			
125	0.09	0.13	0.15	0.15	0.21	0.21	0.15	0.13			
	6	7	11	15	19	17	16	18			
150	0.10	0.09	0.18	0.13	0.23	0.19	0.14	0.10			
	6	6	11	15	19	17	16	18			
200	0.12	0.06	0.21	0.17	0.22	0.15	0.14	0.09			
	6	6	11	14	19	16	15	18			
250	0.07	0.11	0.17	0.13	0.15	0.11	0.10	0.08			
	6	6	10	14	18	16	15	18			
300	0.08	0.06	0.13	0.12	0.12	0.09	0.09	0.07			
	5	6	10	13	18	15	15	18			
400	0.04	0.06	0.09	0.05	0.07	0.06	0.05	0.04			
	5	6	10	13	18	14	15	18			
500	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.03			
	5	7	10	13	18	13	14	17			

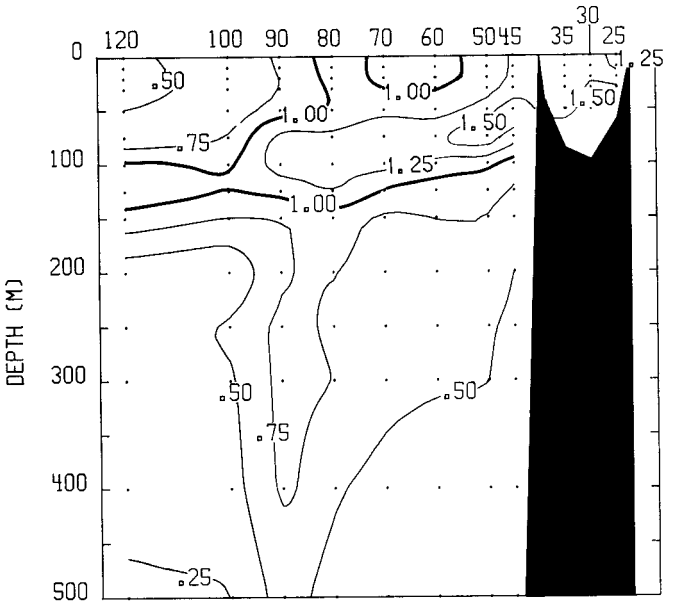
STD. DEV. OF SIGMA-T LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.06	0.06	0.10	0.18	0.16	0.17	0.17	0.18	0.21	0.27	0.21
	6	7	11	15	18	17	16	19	10	7	7
10	0.07	0.06	0.09	0.16	0.16	0.17	0.16	0.18	0.21	0.27	0.21
	6	7	11	15	18	17	16	19	10	7	7
20	0.07	0.06	0.09	0.16	0.16	0.16	0.15	0.19	0.21	0.27	0.25
	6	7	11	15	19	17	16	19	10	7	7
30	0.07	0.06	0.10	0.16	0.16	0.16	0.15	0.20	0.22	0.28	0.29
	6	7	11	15	19	17	16	19	10	7	6
50	0.05	0.07	0.10	0.14	0.20	0.16	0.17	0.22	0.19	0.32	
	6	7	11	15	19	17	16	19	8	7	
75	0.06	0.08	0.20	0.16	0.29	0.28	0.24	0.24			
	6	7	11	15	19	17	16	18			
100	0.19	0.12	0.20	0.21	0.31	0.28	0.14	0.18			
	6	7	11	15	19	17	16	18			
125	0.24	0.13	0.20	0.22	0.25	0.18	0.10	0.14			
	6	7	11	15	19	17	16	18			
150	0.20	0.09	0.19	0.16	0.19	0.12	0.09	0.11			
	6	6	11	15	19	17	16	18			
200	0.11	0.05	0.10	0.10	0.15	0.06	0.07	0.07			
	6	6	11	14	19	16	15	18			
250	0.05	0.03	0.05	0.05	0.07	0.04	0.05	0.05			
	6	6	10	14	18	16	15	18			
300	0.03	0.02	0.06	0.03	0.04	0.03	0.04	0.04			
	5	6	10	13	18	15	15	18			
400	0.03	0.02	0.07	0.04	0.03	0.03	0.04	0.03			
	5	6	10	13	18	14	15	18			
500	0.03	0.02	0.06	0.03	0.03	0.02	0.03	0.03			
	5	7	10	13	18	13	14	17			

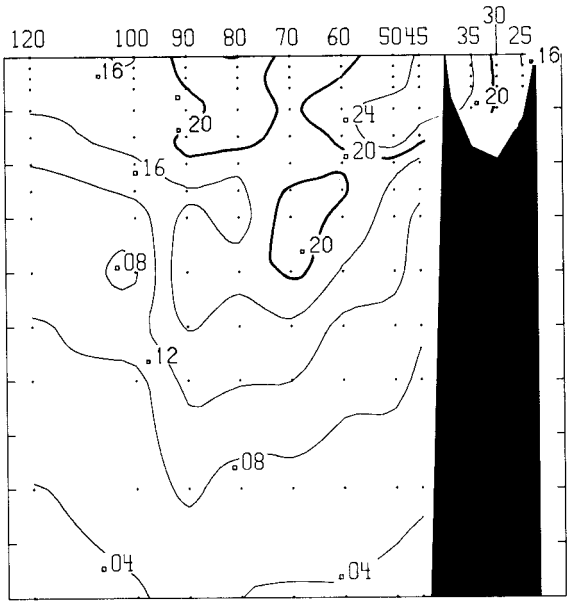
STD. DEV. OF OXYGEN (ML/L) LINE 120 JANUARY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.18	0.19	0.51	0.32	0.28	0.33	0.38	0.27	0.30	0.41	0.30
	5	6	11	14	15	15	14	15	7	5	5
10	0.22	0.19	0.31	0.32	0.26	0.29	0.30	0.28	0.28	0.41	0.32
	5	6	11	14	14	15	14	15	7	5	5
20	0.22	0.20	0.36	0.36	0.28	0.32	0.31	0.30	0.26	0.44	0.27
	5	6	11	14	15	15	14	15	7	5	5
30	0.23	0.23	0.39	0.38	0.32	0.35	0.30	0.34	0.24	0.30	0.31
	5	6	11	14	15	15	14	15	7	5	5
50	0.21	0.24	0.40	0.28	0.38	0.34	0.52	0.41	0.25	0.28	
	5	6	11	14	15	15	14	15	6	5	
75	0.22	0.20	0.35	0.25	0.52	0.74	0.66	0.77			
	5	6	11	14	15	15	14	15			
100	0.40	0.21	0.43	0.35	0.75	0.75	0.82	0.74			
	5	6	11	14	15	15	14	15			
125	0.57	0.24	0.78	0.61	0.79	0.82	0.82	0.69			
	5	6	11	14	15	15	14	15			
150	0.60	0.12	1.00	0.78	0.87	0.67	0.83	0.53			
	5	5	11	14	15	15	14	15			
200	0.67	0.34	0.89	0.65	0.88	0.61	0.67	0.45			
	5	5	11	13	15	14	13	15			
250	0.39	0.56	0.60	0.52	0.78	0.48	0.51	0.32			
	5	5	10	13	14	14	13	15			
300	0.27	0.14	0.39	0.44	0.64	0.32	0.45	0.24			
	4	5	10	12	14	13	13	15			
400	0.10	0.11	0.18	0.15	0.27	0.13	0.31	0.13			
	4	5	10	12	14	12	13	15			
500	0.13	0.11	0.08	0.10	0.11	0.06	0.09	0.09			
	4	6	10	12	14	11	12	14			

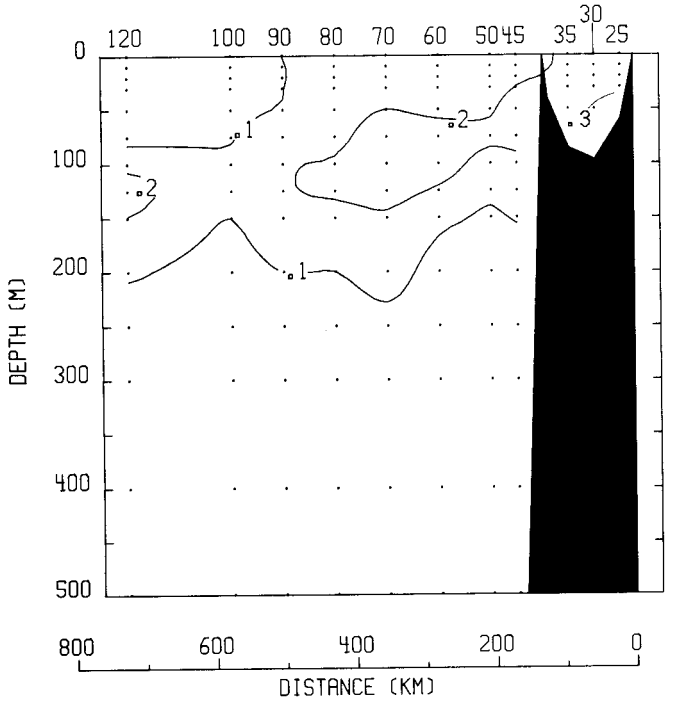
JANUARY LINE 120



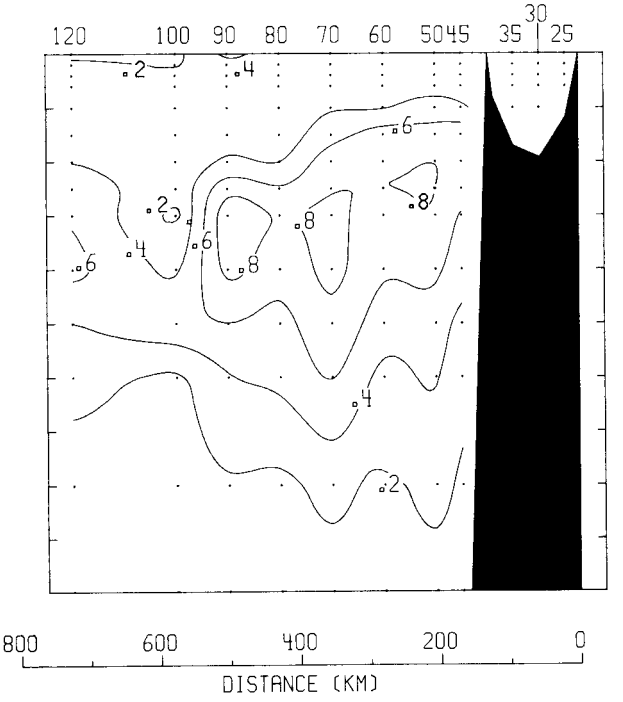
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 060 APRIL

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.38	0.60	0.61	0.78	1.06	1.07	1.11
	6	9	14	15	14	15	9
10	0.25	0.53	0.62	0.85	0.99	1.04	1.10
	6	9	14	15	14	15	9
20	0.37	0.50	0.60	0.89	1.07	1.05	0.94
	6	9	14	15	14	15	9
30	0.38	0.58	0.62	0.96	1.07	1.00	0.94
	6	9	14	15	14	15	9
50	0.54	0.89	0.76	1.01	1.13	0.83	0.90
	6	9	14	15	14	15	8
75	1.08	1.28	0.89	1.05	1.25	0.57	
	6	9	14	15	14	15	
100	1.45	1.46	0.52	0.65	0.75	0.33	
	6	9	14	15	13	15	
125	1.18	1.01	0.35	0.48	0.57	0.27	
	6	9	14	15	13	15	
150	0.88	0.59	0.37	0.46	0.49	0.28	
	6	9	14	15	13	15	
200	0.36	0.35	0.34	0.42	0.37	0.27	
	6	9	14	15	13	14	
250	0.37	0.26	0.35	0.41	0.33	0.32	
	6	9	13	15	13	14	
300	0.41	0.19	0.37	0.42	0.36	0.29	
	6	9	13	15	13	14	
400	0.32	0.26	0.30	0.39	0.35	0.25	
	6	9	13	15	13	14	
500	0.31	0.22	0.23	0.30	0.26	0.20	
	6	9	13	14	13	13	

STD. DEV. OF SALINITY (PPT) LINE 060 APRIL

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.08	0.13	0.08	0.16	0.20	0.39	0.55
	6	9	13	15	13	15	9
10	0.09	0.12	0.08	0.16	0.21	0.37	0.52
	6	9	13	15	13	15	9
20	0.08	0.11	0.09	0.17	0.23	0.34	0.33
	6	8	13	14	13	14	9
30	0.08	0.10	0.10	0.19	0.24	0.32	0.26
	6	8	13	14	13	14	9
50	0.10	0.11	0.11	0.22	0.27	0.26	0.27
	6	8	13	14	13	14	8
75	0.09	0.15	0.17	0.26	0.31	0.22	
	6	8	13	14	13	14	
100	0.15	0.20	0.19	0.26	0.28	0.16	
	6	8	13	14	12	14	
125	0.22	0.22	0.13	0.25	0.22	0.12	
	6	8	13	14	12	14	
150	0.26	0.22	0.09	0.21	0.18	0.09	
	6	8	13	14	12	14	
200	0.16	0.10	0.05	0.09	0.07	0.06	
	6	8	13	14	12	13	
250	0.10	0.05	0.05	0.06	0.05	0.06	
	6	8	12	14	12	13	
300	0.05	0.05	0.04	0.06	0.06	0.07	
	6	8	12	14	12	13	
400	0.05	0.05	0.06	0.07	0.07	0.06	
	6	8	12	14	12	13	
500	0.06	0.06	0.08	0.07	0.05	0.05	
	6	8	12	13	12	12	

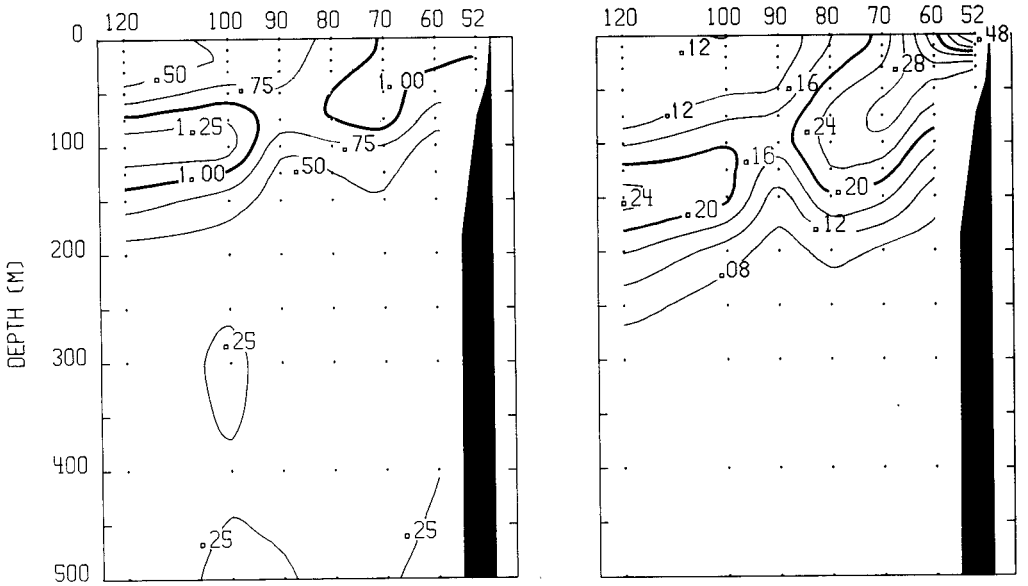
STD. DEV. OF SIGMA-T LINE 060 APRIL

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.10	0.11	0.15	0.20	0.31	0.46	0.60
	6	8	13	14	13	14	9
10	0.08	0.06	0.16	0.21	0.30	0.43	0.58
	6	9	13	15	13	15	9
20	0.09	0.07	0.15	0.23	0.30	0.42	0.40
	6	8	13	14	13	14	9
30	0.08	0.09	0.14	0.24	0.31	0.38	0.35
	6	8	13	14	13	14	9
50	0.09	0.18	0.19	0.28	0.36	0.28	0.34
	6	8	13	14	13	14	8
75	0.18	0.28	0.23	0.29	0.41	0.22	
	6	8	13	14	13	14	
100	0.29	0.38	0.19	0.25	0.31	0.15	
	6	8	13	14	12	14	
125	0.30	0.33	0.14	0.23	0.23	0.11	
	6	8	13	14	12	14	
150	0.30	0.26	0.11	0.21	0.19	0.09	
	6	8	13	14	12	14	
200	0.17	0.13	0.08	0.11	0.10	0.06	
	6	8	13	14	12	13	
250	0.10	0.08	0.07	0.07	0.06	0.04	
	6	8	12	14	12	13	
300	0.08	0.06	0.04	0.05	0.05	0.04	
	6	8	12	14	12	13	
400	0.04	0.06	0.05	0.05	0.04	0.03	
	6	8	12	14	12	13	
500	0.05	0.05	0.07	0.05	0.03	0.03	
	6	8	12	13	12	12	

STD. DEV. OF OXYGEN (ML/L) LINE 060 APRIL

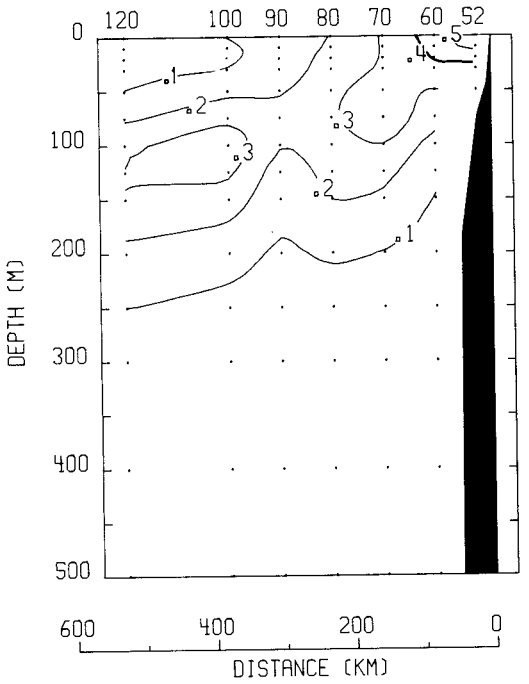
DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.12	0.20	0.31	0.21	0.27	0.57	0.36
	5	8	11	11	11	12	7
10	0.17	0.16	0.29	0.19	0.29	0.49	0.45
	5	8	11	11	11	12	7
20	0.17	0.13	0.29	0.21	0.32	0.47	0.46
	5	8	11	11	11	12	8
30	0.20	0.13	0.28	0.21	0.33	0.49	0.74
	5	8	11	11	11	12	8
50	0.26	0.11	0.43	0.52	0.60	0.77	0.90
	5	8	11	11	11	12	7
75	0.24	0.23	0.66	0.85	0.97	0.84	
	5	8	11	11	11	12	
100	0.41	0.75	0.65	0.95	0.95	0.68	
	5	8	11	11	10	12	
125	0.73	0.86	0.47	0.88	0.78	0.51	
	5	8	11	11	10	12	
150	0.81	0.84	0.41	0.78	0.61	0.40	
	5	8	11	11	10	12	
200	0.65	0.75	0.40	0.67	0.44	0.25	
	5	8	11	11	10	11	
250	0.61	0.68	0.39	0.48	0.32	0.21	
	5	8	10	11	10	11	
300	0.48	0.55	0.35	0.34	0.21	0.18	
	5	8	10	11	10	11	
400	0.40	0.35	0.22	0.21	0.11	0.15	
	5	8	10	11	10	11	
500	0.21	0.22	0.12	0.11	0.05	0.13	
	5	8	10	10	10	10	

APRIL LINE 60

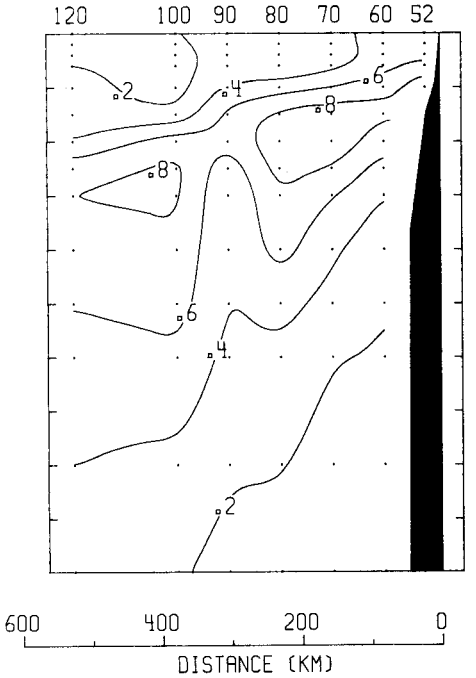


STD DEV: TEMPERATURE

STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 090 APRIL

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.98	0.80	0.71	0.75	0.93	1.02	0.84	0.79	0.82	0.88	0.82
	9	13	18	17	17	17	17	18	19	17	13
10	0.96	0.70	0.74	0.76	0.90	1.00	0.83	0.77	0.81	0.87	0.98
	9	13	18	17	17	17	17	18	19	17	13
20	0.95	0.75	0.79	0.79	0.95	1.04	0.83	0.78	1.08	1.26	1.20
	9	13	18	17	17	17	17	18	19	17	13
30	0.95	0.80	0.82	0.83	1.02	1.12	1.02	0.94	1.39	1.43	1.44
	9	13	18	17	17	17	17	18	19	17	12
50	0.93	0.89	1.04	0.96	1.03	1.26	1.26	0.96	0.94	0.88	1.08
	9	13	18	17	17	16	17	18	19	17	12
75	1.32	1.22	1.41	1.38	1.07	1.19	0.91	0.61	0.60	0.58	0.45
	9	13	18	17	17	16	17	18	19	17	12
100	1.76	1.56	1.62	1.64	0.85	0.89	0.56	0.38	0.42	0.39	0.33
	9	13	18	17	17	16	17	18	19	17	11
125	1.79	1.34	1.42	1.33	0.65	0.56	0.45	0.30	0.32	0.30	0.28
	9	13	18	17	17	16	17	18	19	17	10
150	1.76	1.06	0.95	0.87	0.42	0.43	0.40	0.27	0.32	0.25	0.24
	9	13	18	17	17	16	17	18	19	17	10
200	1.02	0.42	0.46	0.52	0.31	0.34	0.31	0.32	0.33	0.28	0.26
	9	13	18	17	17	16	17	18	19	17	9
250	0.55	0.40	0.36	0.57	0.27	0.30	0.27	0.28	0.29	0.26	
	9	13	18	17	17	16	16	18	19	17	
300	0.40	0.33	0.34	0.65	0.31	0.28	0.26	0.25	0.26	0.23	
	9	13	18	17	17	16	16	18	19	17	
400	0.37	0.26	0.30	0.48	0.29	0.30	0.18	0.18	0.20	0.18	
	9	13	17	17	17	16	16	18	18	15	
500	0.27	0.24	0.25	0.36	0.26	0.18	0.19	0.16	0.14	0.17	
	9	13	17	16	17	16	14	18	18	11	

STD. DEV. OF SALINITY (PPT) LINE 090 APRIL

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.23	0.18	0.14	0.15	0.15	0.14	0.15	0.13	0.13	0.13	0.22
	9	13	18	17	17	17	17	18	19	17	13
10	0.22	0.18	0.14	0.16	0.15	0.14	0.15	0.13	0.14	0.12	0.15
	9	13	18	17	17	17	17	18	19	17	13
20	0.23	0.19	0.16	0.15	0.13	0.13	0.14	0.12	0.13	0.12	0.13
	8	12	17	16	16	16	16	17	18	16	13
30	0.23	0.19	0.16	0.14	0.13	0.13	0.15	0.12	0.12	0.13	0.14
	8	12	17	16	16	16	16	17	18	16	12
50	0.24	0.18	0.16	0.14	0.15	0.15	0.15	0.12	0.11	0.14	0.13
	8	12	17	16	16	15	16	17	18	16	12
75	0.28	0.18	0.12	0.16	0.15	0.14	0.18	0.11	0.10	0.11	0.12
	8	12	17	16	16	15	16	17	18	16	12
100	0.34	0.19	0.16	0.18	0.17	0.14	0.15	0.10	0.09	0.10	0.09
	8	12	17	16	16	15	16	17	18	16	11
125	0.28	0.16	0.16	0.19	0.17	0.12	0.10	0.09	0.09	0.09	0.10
	8	12	17	16	16	15	16	17	18	16	10
150	0.21	0.16	0.13	0.22	0.14	0.08	0.08	0.08	0.09	0.08	0.08
	8	12	17	16	16	15	16	17	18	16	10
200	0.06	0.12	0.09	0.12	0.06	0.07	0.06	0.05	0.05	0.06	0.05
	8	12	17	16	16	15	16	17	18	16	9
250	0.05	0.06	0.06	0.08	0.07	0.07	0.05	0.05	0.06	0.05	
	8	12	17	16	16	15	15	17	18	16	
300	0.02	0.04	0.05	0.09	0.09	0.07	0.04	0.04	0.05	0.04	
	8	12	17	16	16	15	15	17	18	16	
400	0.03	0.05	0.06	0.07	0.07	0.05	0.03	0.04	0.05	0.03	
	8	12	16	16	16	15	15	17	17	14	
500	0.03	0.04	0.05	0.06	0.06	0.05	0.03	0.04	0.05	0.03	
	8	12	16	15	16	15	13	16	17	11	

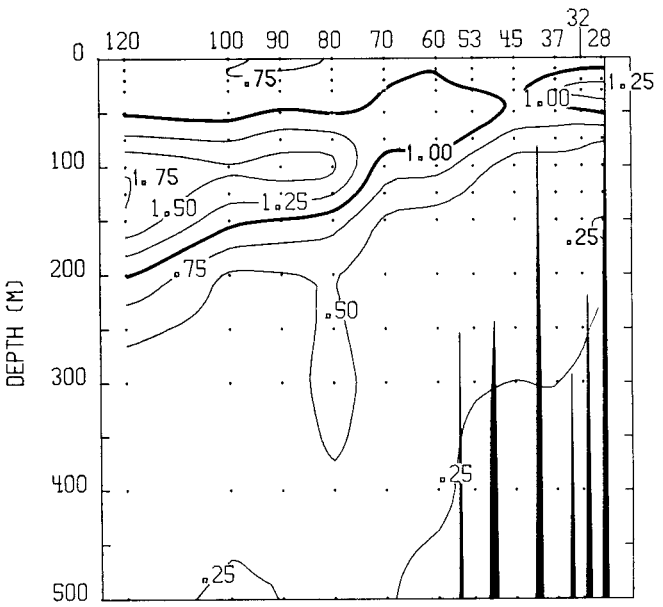
STD. DEV. OF SIGMA-T LINE 090 APRIL

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.21	0.18	0.17	0.16	0.21	0.22	0.22	0.19	0.20	0.20	0.26
	8	12	17	16	16	16	16	17	18	16	13
10	0.20	0.17	0.17	0.16	0.20	0.23	0.23	0.18	0.19	0.19	0.26
	9	13	18	17	17	17	17	18	19	17	13
20	0.21	0.17	0.17	0.16	0.22	0.22	0.23	0.18	0.24	0.29	0.28
	8	12	17	16	16	16	16	17	18	16	13
30	0.22	0.17	0.18	0.17	0.24	0.24	0.26	0.22	0.28	0.31	0.33
	8	12	17	16	16	16	16	17	18	16	12
50	0.20	0.18	0.22	0.21	0.23	0.27	0.31	0.22	0.21	0.23	0.26
	8	12	17	16	16	15	16	17	18	16	12
75	0.21	0.21	0.28	0.27	0.23	0.23	0.27	0.16	0.17	0.17	0.15
	8	12	17	16	16	15	16	17	18	16	12
100	0.18	0.26	0.32	0.34	0.20	0.20	0.19	0.12	0.13	0.13	0.11
	8	12	17	16	16	15	16	17	18	16	11
125	0.20	0.29	0.30	0.33	0.21	0.15	0.13	0.10	0.10	0.10	0.10
	8	12	17	16	16	15	16	17	18	16	10
150	0.21	0.29	0.23	0.27	0.16	0.12	0.10	0.09	0.09	0.08	0.07
	8	12	17	16	16	15	16	17	18	16	10
200	0.21	0.16	0.14	0.12	0.09	0.07	0.08	0.08	0.06	0.05	0.04
	8	12	17	16	16	15	16	17	18	16	9
250	0.12	0.10	0.09	0.08	0.06	0.06	0.05	0.06	0.05	0.03	
	8	12	17	16	16	15	15	17	18	16	
300	0.06	0.06	0.07	0.07	0.06	0.06	0.04	0.05	0.05	0.03	
	8	12	17	16	16	15	15	17	18	16	
400	0.06	0.04	0.05	0.05	0.04	0.05	0.03	0.04	0.05	0.03	
	8	12	16	16	16	15	15	17	17	14	
500	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.03	
	8	12	16	15	16	15	13	16	17	11	

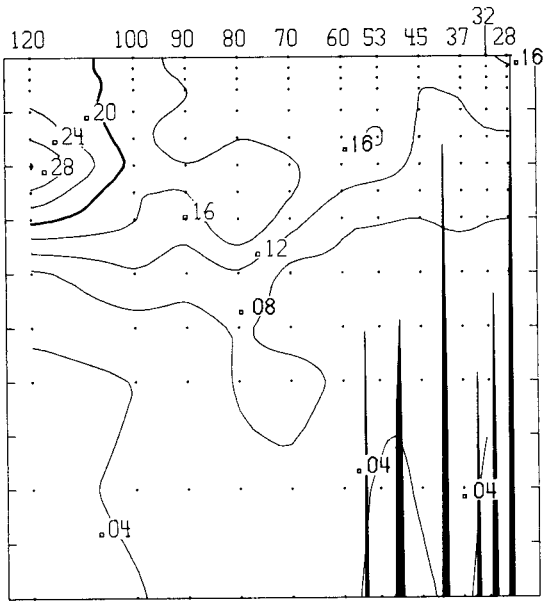
STD. DEV. OF OXYGEN (ML/L) LINE 090 APRIL

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.39	0.48	0.30	0.36	0.31	0.38	0.39	0.39	0.33	0.68	0.42
	7	12	16	16	14	16	15	16	17	15	10
10	0.33	0.51	0.34	0.37	0.27	0.40	0.28	0.43	0.33	0.79	0.55
	7	11	16	16	15	16	15	17	17	15	10
20	0.26	0.42	0.31	0.37	0.27	0.39	0.24	0.31	0.39	0.45	0.90
	6	11	15	15	14	15	14	16	16	14	10
30	0.29	0.41	0.31	0.37	0.26	0.37	0.32	0.49	0.46	0.72	0.84
	7	12	16	16	15	16	15	17	17	15	9
50	0.45	0.44	0.33	0.37	0.26	0.36	0.52	0.70	0.59	0.72	0.71
	7	12	16	16	15	15	15	17	17	15	9
75	0.44	0.42	0.44	0.59	0.31	0.45	0.65	0.61	0.48	0.48	0.49
	6	11	15	15	14	14	14	16	16	14	9
100	0.32	0.54	0.66	0.84	0.55	0.60	0.62	0.56	0.47	0.42	0.36
	6	11	15	15	14	14	14	16	16	14	8
125	0.36	0.66	0.76	0.95	0.58	0.55	0.58	0.51	0.38	0.42	0.45
	6	11	15	15	14	14	14	16	16	14	8
150	0.43	0.63	0.74	0.89	0.46	0.51	0.56	0.47	0.30	0.41	0.38
	7	12	16	16	15	15	15	17	17	15	9
200	0.66	0.43	0.65	0.71	0.58	0.48	0.39	0.33	0.33	0.34	0.28
	7	12	16	16	15	15	15	17	17	15	7
250	0.75	0.41	0.56	0.61	0.45	0.44	0.32	0.27	0.29	0.29	
	7	12	16	16	14	15	14	17	16	15	
300	0.56	0.45	0.44	0.48	0.44	0.31	0.23	0.18	0.24	0.22	
	7	12	16	16	15	15	14	17	17	15	
400	0.34	0.30	0.30	0.21	0.25	0.16	0.13	0.10	0.16	0.11	
	7	12	15	16	15	15	14	17	16	13	
500	0.11	0.12	0.14	0.11	0.13	0.09	0.08	0.06	0.09	0.11	
	7	12	15	15	15	15	12	17	16	10	

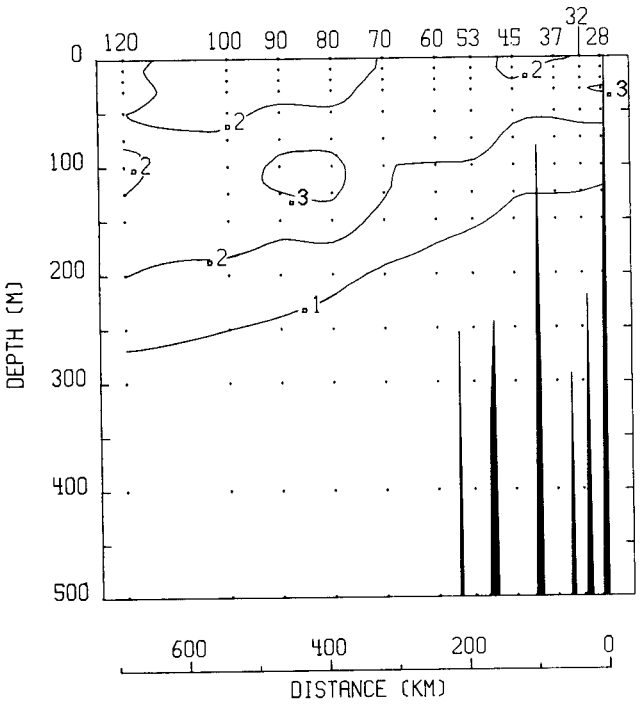
APRIL LINE 90



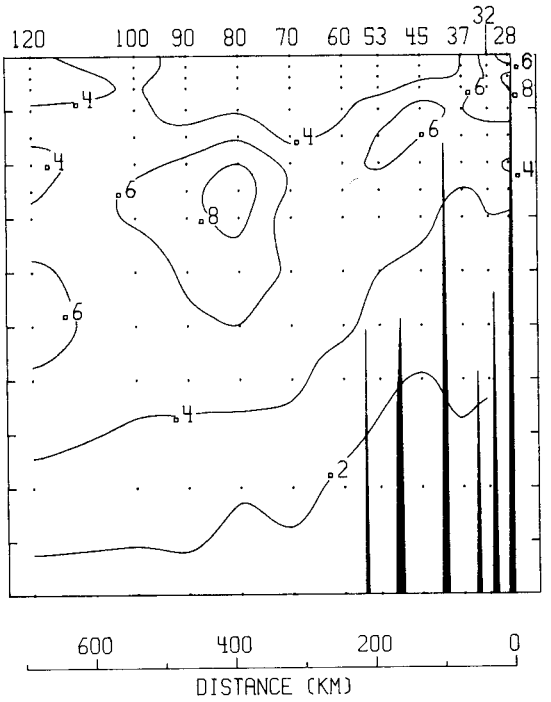
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.32	0.26	0.86	0.83	0.83	0.86	0.83	1.03	1.42	1.13	1.05
	4	5	10	16	17	16	17	17	9	6	7
10	0.33	0.26	0.97	0.83	0.80	0.84	0.97	1.10	1.17	1.14	1.04
	4	5	10	16	17	16	17	17	9	6	7
20	0.32	0.41	1.02	0.82	0.82	0.81	1.17	1.10	1.24	1.11	1.04
	4	5	10	16	17	16	17	17	9	6	7
30	0.45	0.47	1.07	0.83	0.98	0.86	1.38	1.21	1.52	1.19	1.47
	4	5	10	16	17	16	16	17	9	6	7
50	0.52	0.49	1.25	0.99	1.59	1.37	1.75	1.37	2.25	1.43	
	4	5	10	16	17	16	17	17	9	6	
75	0.78	1.17	1.71	1.37	1.82	1.71	1.37	0.68			
	4	5	10	16	17	16	17	15			
100	1.29	1.51	1.57	1.41	1.40	1.08	0.82	0.46			
	4	5	10	16	17	16	16	15			
125	1.27	1.34	1.08	0.76	0.85	0.59	0.66	0.48			
	4	5	9	16	17	16	16	15			
150	0.92	1.28	0.73	0.59	0.59	0.53	0.55	0.59			
	4	5	9	16	17	16	16	15			
200	0.34	0.73	0.44	0.72	0.51	0.42	0.66	0.57			
	4	5	9	16	17	16	16	15			
250	0.24	0.62	0.41	0.65	0.58	0.40	0.59	0.49			
	4	5	9	16	17	16	16	15			
300	0.16	0.53	0.48	0.65	0.51	0.38	0.50	0.47			
	4	5	9	16	17	16	16	15			
400	0.17	0.33	0.38	0.42	0.45	0.33	0.39	0.44			
	4	5	9	16	17	16	16	15			
500	0.14	0.23	0.22	0.31	0.33	0.30	0.23	0.26			
	4	5	9	16	17	15	16	14			

STD. DEV. OF SALINITY (PPT) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.21	0.08	0.24	0.21	0.19	0.15	0.18	0.11	0.17	0.15	0.16
	4	5	10	16	17	16	17	17	9	6	7
10	0.22	0.08	0.25	0.22	0.19	0.17	0.20	0.10	0.18	0.15	0.17
	4	5	10	16	17	16	17	17	9	6	7
20	0.23	0.05	0.27	0.22	0.19	0.16	0.19	0.11	0.14	0.15	0.13
	4	5	10	16	17	16	17	17	9	6	7
30	0.24	0.04	0.28	0.22	0.19	0.17	0.18	0.11	0.14	0.11	0.13
	4	5	10	16	17	16	16	17	9	6	7
50	0.28	0.06	0.28	0.23	0.20	0.20	0.19	0.14	0.14	0.11	
	4	5	10	16	17	16	17	17	9	6	
75	0.28	0.08	0.32	0.22	0.19	0.20	0.19	0.21			
	4	5	10	16	17	16	17	15			
100	0.25	0.12	0.19	0.17	0.20	0.21	0.21	0.22			
	4	5	10	16	17	16	16	15			
125	0.16	0.06	0.13	0.13	0.21	0.21	0.19	0.20			
	4	5	9	16	17	16	16	15			
150	0.06	0.07	0.12	0.22	0.20	0.18	0.20	0.17			
	4	5	9	16	17	16	16	15			
200	0.10	0.09	0.14	0.20	0.18	0.12	0.18	0.12			
	4	5	9	16	17	16	16	15			
250	0.06	0.08	0.12	0.17	0.13	0.08	0.12	0.08			
	4	5	9	16	17	16	16	15			
300	0.03	0.08	0.09	0.11	0.10	0.08	0.10	0.06			
	4	5	9	16	17	16	16	15			
400	0.03	0.05	0.06	0.07	0.08	0.06	0.07	0.05			
	4	5	9	16	17	16	16	15			
500	0.02	0.03	0.04	0.04	0.06	0.04	0.04	0.03			
	4	5	9	16	17	15	16	14			

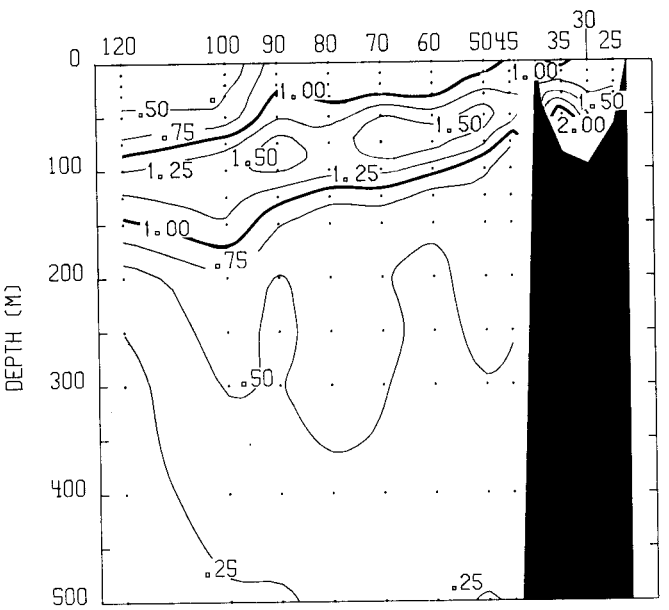
STD. DEV. OF OXYGEN (ML/L) LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.16	0.15	0.31	0.41	0.36	0.42	0.55	0.52	0.40	0.58	0.47
	3	5	8	13	13	13	13	14	8	6	6
10	0.18	0.11	0.45	0.34	0.36	0.37	0.58	0.50	0.59	0.52	0.42
	3	5	9	13	13	13	13	14	8	6	6
20	0.19	0.13	0.44	0.38	0.34	0.37	0.41	0.43	0.52	0.58	0.47
	3	5	9	13	13	13	13	14	8	6	6
30	0.20	0.10	0.42	0.42	0.34	0.35	0.40	0.56	0.60	0.55	0.58
	3	5	9	13	13	13	12	14	8	6	6
50	0.16	0.12	0.43	0.43	0.54	0.54	0.75	0.98	1.14	0.69	
	3	5	9	13	13	13	13	14	8	6	
75	0.09	0.18	0.43	0.43	0.82	0.93	0.96	0.92			
	3	5	9	13	13	13	13	12			
100	0.19	0.64	0.57	0.85	1.07	1.02	0.98	0.89			
	3	5	9	13	13	13	12	12			
125	0.16	0.62	0.77	0.97	1.21	1.04	0.92	0.90			
	3	5	8	13	13	13	12	12			
150	0.18	0.65	0.71	1.18	1.08	0.94	0.85	0.85			
	3	5	8	13	13	13	12	12			
200	0.38	0.51	0.63	0.95	0.82	0.82	0.81	0.45			
	3	5	8	13	13	13	12	12			
250	0.12	0.65	0.56	0.76	0.55	0.57	0.47	0.19			
	3	5	8	13	13	13	12	12			
300	0.04	0.37	0.34	0.49	0.34	0.35	0.32	0.17			
	3	5	8	13	13	13	12	12			
400	0.17	0.17	0.22	0.28	0.20	0.19	0.17	0.10			
	3	5	8	13	13	13	12	12			
500		0.07	0.07	0.11	0.14	0.17	0.08	0.07			
		5	8	13	13	12	12	10			

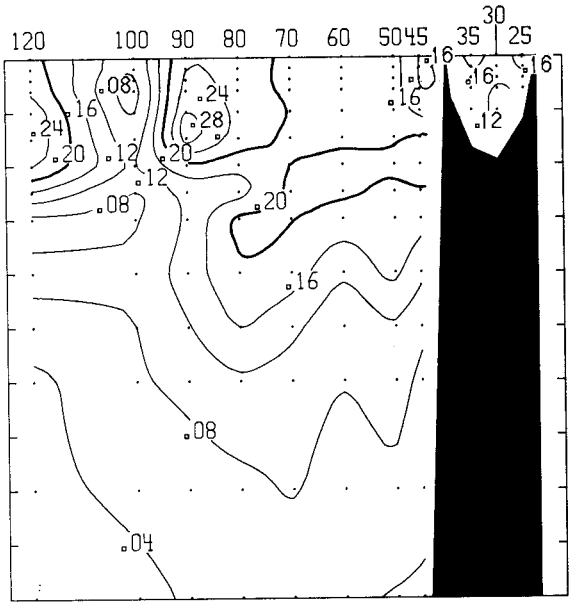
STD. DEV. OF SIGMA-T LINE 120 APRIL

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.16	0.10	0.13	0.12	0.14	0.16	0.18	0.22	0.28	0.19	0.18
	4	5	10	16	17	16	17	17	9	6	7
10	0.18	0.11	0.10	0.12	0.14	0.16	0.19	0.25	0.22	0.21	0.16
	4	5	10	16	17	16	17	17	9	6	7
20	0.13	0.10	0.09	0.11	0.14	0.14	0.24	0.25	0.22	0.22	0.18
	4	5	10	16	17	16	17	17	9	6	7
30	0.10	0.11	0.09	0.10	0.18	0.14	0.28	0.27	0.28	0.24	0.28
	4	5	10	16	17	16	16	17	9	6	7
50	0.09	0.11	0.12	0.12	0.31	0.24	0.36	0.32	0.41	0.27	
	4	5	10	16	17	16	17	17	9	6	
75	0.07	0.22	0.19	0.18	0.36	0.35	0.32	0.25			
	4	5	10	16	17	16	17	15			
100	0.15	0.30	0.23	0.23	0.33	0.30	0.25	0.18			
	4	5	10	16	17	16	16	15			
125	0.15	0.26	0.18	0.19	0.26	0.23	0.19	0.13			
	4	5	9	16	17	16	16	15			
150	0.14	0.26	0.15	0.18	0.20	0.17	0.14	0.09			
	4	5	9	16	17	16	16	15			
200	0.13	0.17	0.13	0.11	0.14	0.10	0.09	0.05			
	4	5	9	16	17	16	16	15			
250	0.05	0.11	0.07	0.06	0.07	0.07	0.07	0.04			
	4	5	9	16	17	16	16	15			
300	0.04	0.08	0.05	0.05	0.05	0.05	0.05	0.05			
	4	5	9	16	17	16	16	15			
400	0.02	0.05	0.04	0.03	0.04	0.04	0.03	0.05			
	4	5	9	16	17	16	16	15			
500	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.04			
	4	5	9	16	17	15	16	14			

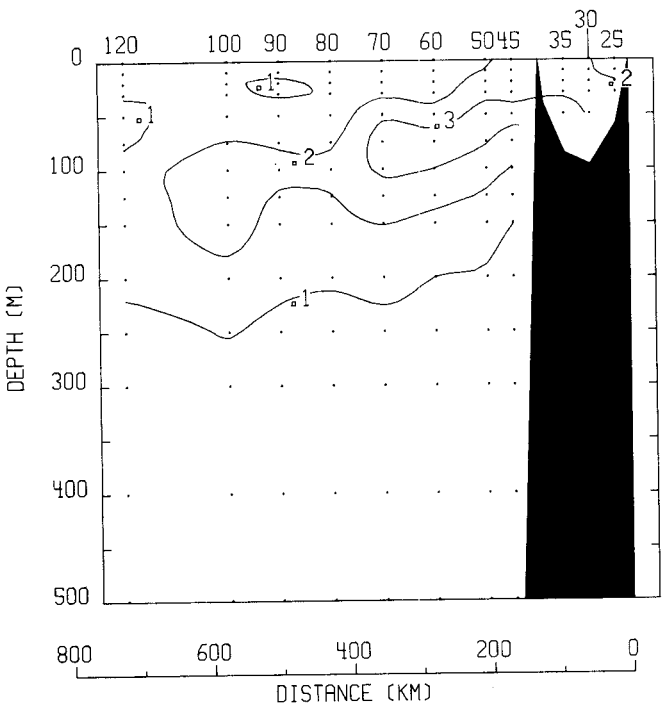
APRIL LINE 120



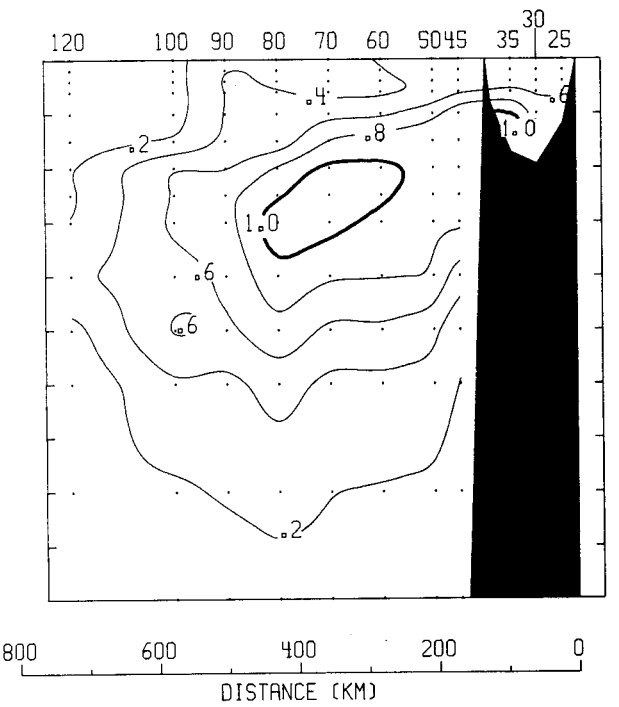
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 060 JULY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.46	1.05	1.21	1.09	0.99	1.26	1.74
	6	9	15	18	17	18	16
10	0.42	1.11	1.38	1.08	1.07	1.31	1.12
	6	9	15	18	17	18	16
20	0.66	1.33	1.67	1.41	1.30	1.44	0.54
	6	9	15	18	17	18	16
30	1.04	1.37	2.11	1.53	1.30	1.13	0.63
	6	9	15	18	17	18	16
50	1.70	1.45	2.30	1.56	0.97	0.69	0.56
	6	9	15	18	17	18	14
75	1.83	1.13	1.74	1.41	0.63	0.50	
	6	9	15	18	17	18	
100	1.76	0.92	1.36	1.06	0.29	0.33	
	6	9	15	18	17	18	
125	1.78	0.79	1.15	0.57	0.24	0.26	
	5	9	15	18	17	18	
150	1.37	0.58	0.83	0.32	0.24	0.22	
	5	9	15	18	17	18	
200	0.58	0.39	0.71	0.36	0.26	0.30	
	5	9	15	18	17	17	
250	0.57	0.40	0.65	0.31	0.25	0.36	
	5	9	15	18	17	17	
300	0.49	0.36	0.56	0.30	0.25	0.34	
	5	9	15	18	17	17	
400	0.33	0.32	0.43	0.23	0.24	0.28	
	5	9	15	18	17	16	
500	0.24	0.27	0.40	0.21	0.23	0.21	
	5	9	15	17	17	15	

STD. DEV. OF SALINITY (PPT) LINE 060 JULY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.14	0.16	0.17	0.23	0.19	0.22	0.37
	6	9	15	18	17	18	15
10	0.16	0.14	0.17	0.23	0.21	0.21	0.30
	6	9	15	18	17	18	15
20	0.15	0.13	0.19	0.24	0.22	0.21	0.28
	6	9	15	18	17	18	15
30	0.15	0.13	0.21	0.25	0.22	0.21	0.25
	6	9	15	18	17	18	15
50	0.17	0.14	0.27	0.22	0.23	0.20	0.21
	6	9	15	18	17	18	13
75	0.25	0.13	0.30	0.23	0.17	0.16	
	6	9	15	18	17	18	
100	0.21	0.19	0.30	0.20	0.12	0.13	
	6	9	15	18	17	18	
125	0.21	0.17	0.30	0.19	0.09	0.08	
	5	9	15	18	17	18	
150	0.22	0.18	0.24	0.15	0.06	0.06	
	5	9	15	18	17	18	
200	0.13	0.13	0.11	0.06	0.04	0.04	
	5	9	15	18	17	17	
250	0.05	0.06	0.07	0.04	0.04	0.06	
	5	9	15	18	17	17	
300	0.04	0.04	0.05	0.05	0.04	0.05	
	5	9	15	18	17	17	
400	0.06	0.04	0.05	0.04	0.05	0.06	
	5	9	15	18	17	16	
500	0.04	0.04	0.05	0.03	0.05	0.05	
	5	9	15	17	17	15	

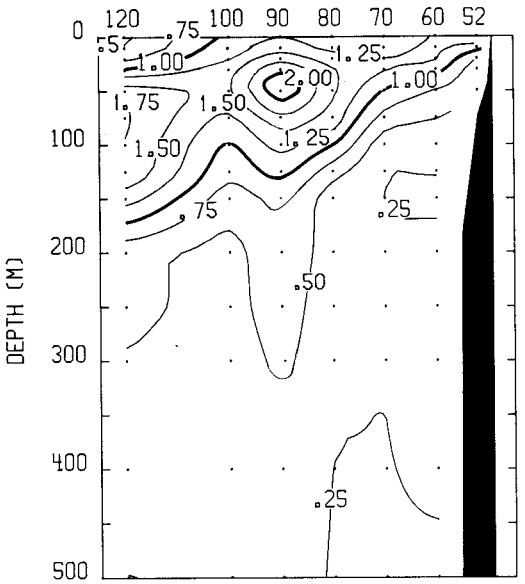
STD. DEV. OF SIGMA-T LINE 060 JULY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.05	0.22	0.29	0.36	0.26	0.37	0.50
	6	9	15	18	17	18	15
10	0.06	0.24	0.30	0.36	0.26	0.36	0.42
	6	9	15	18	17	18	15
20	0.09	0.27	0.38	0.41	0.29	0.40	0.29
	6	9	15	18	17	18	15
30	0.15	0.26	0.50	0.45	0.28	0.33	0.26
	6	9	15	18	17	18	15
50	0.29	0.28	0.55	0.43	0.26	0.24	0.25
	6	9	15	18	17	18	13
75	0.28	0.23	0.49	0.40	0.18	0.17	
	6	9	15	18	17	18	
100	0.32	0.25	0.43	0.31	0.11	0.12	
	6	9	15	18	17	18	
125	0.38	0.22	0.38	0.22	0.07	0.08	
	5	9	15	18	17	18	
150	0.32	0.20	0.30	0.15	0.05	0.06	
	5	9	15	18	17	18	
200	0.17	0.12	0.18	0.09	0.03	0.05	
	5	9	15	18	17	17	
250	0.10	0.08	0.13	0.06	0.02	0.05	
	5	9	15	18	17	17	
300	0.07	0.06	0.09	0.05	0.03	0.04	
	5	9	15	18	17	17	
400	0.07	0.03	0.06	0.04	0.02	0.04	
	5	9	15	18	17	16	
500	0.04	0.03	0.06	0.03	0.02	0.04	
	5	9	15	17	17	15	

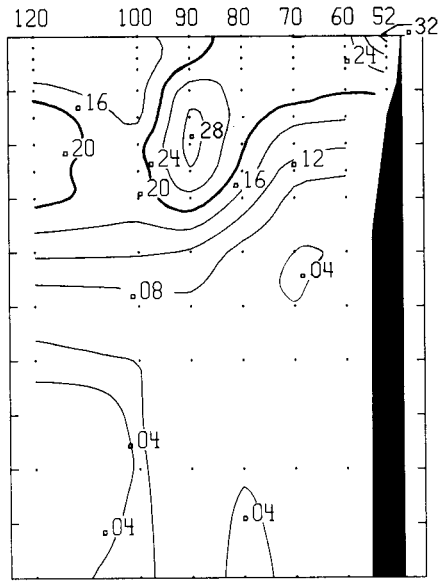
STD. DEV. OF OXYGEN (ML/L) LINE 060 JULY

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.56	0.80	0.45	0.34	0.38	0.48	1.21
	6	8	10	12	10	12	8
10	0.51	0.65	0.45	0.34	0.29	0.61	1.17
	6	8	10	12	10	12	8
20	0.57	0.73	0.40	0.33	0.40	0.72	0.38
	6	8	10	12	10	12	8
30	0.63	0.74	0.41	0.36	0.51	0.77	0.89
	6	8	10	12	10	12	8
50	0.72	0.72	0.45	0.50	0.62	0.91	0.74
	6	8	10	12	10	12	7
75	0.62	0.79	0.71	0.66	0.88	0.91	
	6	8	10	12	10	12	
100	0.73	0.94	0.99	0.72	0.75	0.85	
	6	7	9	12	10	12	
125	0.98	0.97	0.98	0.76	0.59	0.73	
	5	7	9	11	9	12	
150	1.01	0.96	0.67	0.69	0.39	0.67	
	5	7	9	11	9	12	
200	0.80	0.77	0.40	0.59	0.42	0.53	
	5	7	9	11	9	12	
250	0.60	0.73	0.42	0.62	0.41	0.41	
	5	7	9	11	9	12	
300	0.60	0.67	0.48	0.47	0.36	0.30	
	5	7	9	11	9	11	
400	0.35	0.31	0.29	0.13	0.17	0.27	
	5	7	9	11	9	10	
500	0.15	0.22	0.13	0.10	0.15	0.14	
	5	6	9	10	9	10	

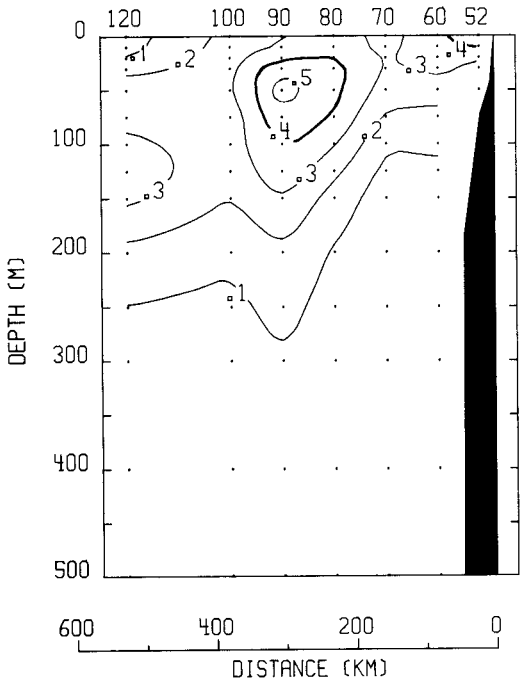
JULY LINE 60



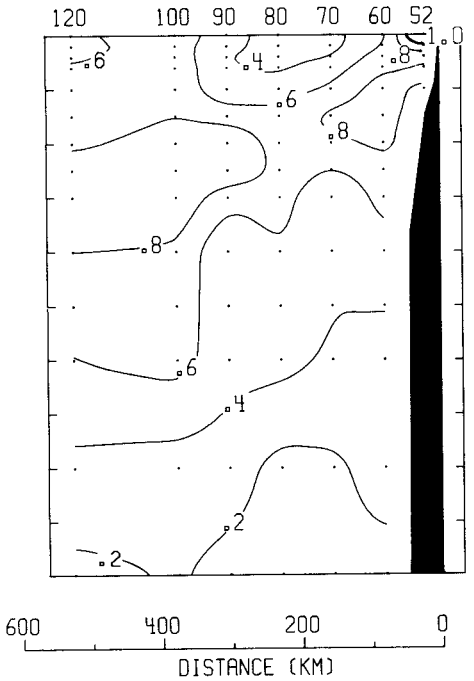
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 090 JULY

DEPTH	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.61	0.80	0.62	0.68	0.85	0.77	0.88	1.10	0.88	1.18	1.20	1.52
	9	6	11	18	18	21	21	19	18	20	19	18
10	0.54	0.62	0.65	0.75	0.82	0.88	1.00	1.14	1.02	1.24	1.82	2.09
	9	5	10	18	18	21	21	19	19	20	19	18
20	0.52	0.61	0.74	0.84	0.82	0.95	1.09	1.31	1.48	1.37	1.70	1.25
	9	6	11	18	18	21	21	19	19	20	19	18
30	0.56	0.79	0.94	0.96	0.85	0.94	1.18	1.36	1.46	1.21	1.23	0.83
	9	6	11	18	18	21	21	19	19	20	19	18
50	0.83	1.04	1.16	1.13	1.17	0.86	1.33	1.01	0.72	1.02	0.88	0.61
	9	6	11	18	18	21	21	19	19	20	19	17
75	0.95	1.24	1.24	1.46	1.52	1.05	1.21	0.43	0.34	0.61	0.57	0.36
	9	6	11	18	18	21	21	19	19	20	19	17
100	1.28	1.36	1.33	1.49	1.41	0.99	0.86	0.25	0.22	0.39	0.32	0.28
	8	6	11	18	18	21	21	19	19	20	18	16
125	1.29	1.51	1.25	1.21	1.08	0.69	0.53	0.25	0.18	0.30	0.22	0.26
	8	6	11	18	18	21	21	19	19	20	18	14
150	0.91	1.30	1.04	0.92	0.72	0.50	0.40	0.23	0.18	0.28	0.21	0.24
	8	6	11	18	18	21	21	19	19	20	18	13
200	0.51	0.68	0.62	0.46	0.36	0.26	0.35	0.22	0.12	0.28	0.30	0.30
	8	6	11	18	18	21	21	19	19	20	18	12
250	0.27	0.46	0.43	0.25	0.33	0.25	0.34	0.29	0.20	0.30	0.37	
	8	6	11	18	18	20	21	19	19	19	18	
300	0.16	0.34	0.28	0.27	0.34	0.28	0.32	0.29	0.16	0.31	0.46	
	8	6	11	18	18	20	21	19	19	19	18	
400	0.16	0.26	0.21	0.29	0.30	0.33	0.35	0.16	0.16	0.29	0.42	
	8	6	11	18	17	20	20	17	19	19	18	
500	0.20	0.26	0.14	0.26	0.19	0.27	0.30	0.13	0.16	0.22	0.13	
	8	6	11	18	17	20	18	15	17	18	14	

STD. DEV. OF SALINITY (PPT) LINE 090 JULY

DEPTH	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.13	0.10	0.12	0.17	0.13	0.17	0.17	0.15	0.12	0.12	0.10	0.12
	9	5	11	18	18	21	21	19	18	20	19	17
10	0.13	0.11	0.15	0.18	0.13	0.17	0.17	0.15	0.13	0.12	0.14	0.13
	9	5	10	18	18	21	21	19	18	20	19	17
20	0.15	0.11	0.15	0.17	0.14	0.17	0.16	0.17	0.19	0.11	0.10	0.12
	9	5	11	18	18	21	21	19	18	20	18	17
30	0.19	0.12	0.13	0.17	0.15	0.16	0.18	0.16	0.12	0.10	0.10	0.12
	9	5	11	18	18	21	21	19	18	20	18	17
50	0.27	0.14	0.15	0.17	0.15	0.14	0.20	0.16	0.11	0.10	0.12	0.11
	9	5	11	18	18	21	21	19	18	20	18	16
75	0.24	0.21	0.21	0.19	0.16	0.14	0.22	0.18	0.10	0.11	0.12	0.10
	9	5	11	18	18	21	21	19	18	20	18	16
100	0.31	0.17	0.18	0.19	0.18	0.15	0.24	0.15	0.07	0.10	0.13	0.09
	8	5	11	18	18	21	21	19	18	20	17	15
125	0.23	0.11	0.15	0.16	0.16	0.14	0.18	0.09	0.06	0.09	0.10	0.08
	8	5	11	18	18	21	21	19	18	20	17	13
150	0.14	0.08	0.13	0.15	0.14	0.12	0.12	0.09	0.05	0.08	0.08	0.08
	8	5	11	18	18	21	21	19	18	20	17	12
200	0.08	0.14	0.08	0.08	0.08	0.07	0.08	0.07	0.04	0.06	0.07	0.10
	8	5	11	18	18	21	21	19	18	20	17	11
250	0.05	0.08	0.05	0.05	0.05	0.06	0.08	0.07	0.03	0.05	0.07	
	8	5	11	18	18	20	21	19	18	19	17	
300	0.03	0.04	0.04	0.05	0.05	0.06	0.08	0.06	0.02	0.06	0.07	
	8	5	11	18	18	20	21	19	18	19	17	
400	0.03	0.03	0.04	0.06	0.06	0.07	0.05	0.04	0.02	0.03	0.05	
	8	5	11	18	17	20	20	17	18	19	17	
500	0.04	0.05	0.05	0.05	0.04	0.05	0.04	0.03	0.02	0.03	0.03	
	8	5	11	18	17	20	18	15	16	18	14	

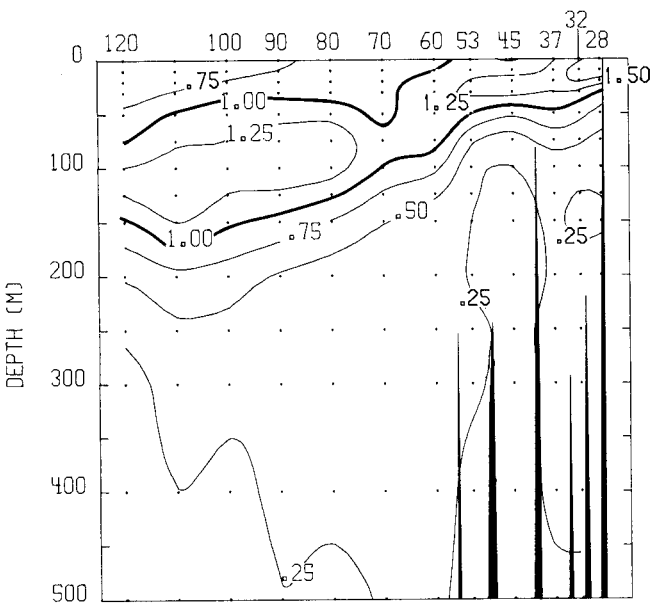
STD. DEV. OF SIGMA-T LINE 090 JULY

DEPTH	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.17	0.25	0.17	0.17	0.20	0.20	0.24	0.24	0.21	0.28	0.30	0.37
	9	5	11	18	18	21	21	19	18	20	18	17
10	0.14	0.22	0.17	0.15	0.19	0.22	0.27	0.26	0.28	0.29	0.39	0.48
	9	5	10	18	18	21	21	19	18	20	19	17
20	0.15	0.21	0.19	0.17	0.18	0.22	0.29	0.28	0.34	0.29	0.38	0.25
	9	5	11	18	18	21	21	19	18	20	18	17
30	0.16	0.23	0.23	0.19	0.18	0.21	0.28	0.28	0.33	0.26	0.26	0.17
	9	5	11	18	18	21	21	19	18	20	18	17
50	0.22	0.24	0.28	0.25	0.27	0.20	0.31	0.28	0.18	0.23	0.21	0.13
	9	5	11	18	18	21	21	19	18	20	18	16
75	0.16	0.21	0.26	0.29	0.33	0.26	0.34	0.21	0.11	0.17	0.17	0.12
	9	5	11	18	18	21	21	19	18	20	18	16
100	0.17	0.24	0.28	0.29	0.31	0.24	0.30	0.14	0.08	0.12	0.13	0.10
	8	5	11	18	18	21	21	19	18	20	17	15
125	0.18	0.28	0.27	0.27	0.25	0.20	0.20	0.10	0.06	0.08	0.10	0.08
	8	5	11	18	18	21	21	19	18	20	17	13
150	0.19	0.27	0.24	0.23	0.20	0.16	0.13	0.08	0.05	0.05	0.07	0.07
	8	5	11	18	18	21	21	19	18	20	17	12
200	0.12	0.21	0.16	0.13	0.10	0.08	0.09	0.06	0.03	0.03	0.06	0.06
	8	5	11	18	18	21	21	19	18	20	17	11
250	0.07	0.12	0.10	0.06	0.07	0.04	0.07	0.04	0.04	0.02	0.05	
	8	5	11	18	18	20	21	19	18	19	17	
300	0.04	0.07	0.06	0.06	0.05	0.03	0.07	0.04	0.03	0.04	0.05	
	8	5	11	18	18	20	21	19	18	19	17	
400	0.02	0.05	0.05	0.05	0.04	0.03	0.06	0.03	0.02	0.04	0.05	
	8	5	11	18	17	20	20	17	18	19	17	
500	0.02	0.05	0.05	0.04	0.03	0.03	0.05	0.03	0.02	0.03	0.03	
	8	5	11	18	17	20	18	15	16	18	14	

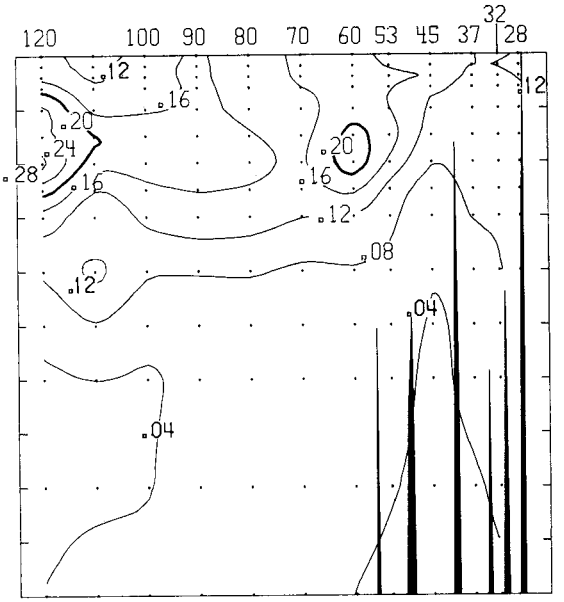
STD. DEV. OF OXYGEN (ML/L) LINE 090 JULY

DEPTH	90120	90110	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.29	0.18	0.38	0.27	0.22	0.29	0.33	0.46	0.50	0.33	0.50	0.57
	9	3	10	14	14	15	16	12	14	15	13	14
10	0.30	0.26	0.31	0.30	0.28	0.34	0.32	0.49	0.51	0.30	0.55	0.47
	9	3	10	14	14	15	16	12	14	15	13	14
20	0.30	0.19	0.29	0.30	0.28	0.33	0.36	0.49	0.67	0.44	0.38	0.48
	9	3	10	14	14	15	16	12	14	15	13	14
30	0.31	0.15	0.32	0.27	0.27	0.34	0.42	0.65	0.85	0.63	0.51	0.64
	9	3	10	14	14	15	16	12	14	15	13	14
50	0.28	0.19	0.33	0.29	0.29	0.25	0.61	0.96	0.72	0.86	0.88	0.83
	9	3	10	14	14	15	16	12	14	15	13	14
75	0.29	0.29	0.35	0.39	0.75	0.52	0.83	0.80	0.51	0.60	0.58	0.91
	9	3	10	14	14	15	16	12	14	15	13	14
100	0.29	0.28	0.46	0.41	0.85	0.63	0.91	0.57	0.41	0.50	0.50	0.99
	8	3	10	14	14	15	16	12	14	15	12	13
125	0.35	0.43	0.59	0.55	0.77	0.72	0.72	0.55	0.44	0.35	0.47	0.88
	8	3	10	14	14	15	16	12	14	15	12	12
150	0.48	0.42	0.54	0.51	0.59	0.65	0.61	0.51	0.40	0.43	0.50	0.72
	8	3	10	14	14	15	16	12	14	15	12	11
200	0.43	0.56	0.60	0.49	0.58	0.47	0.58	0.49	0.33	0.34	0.46	0.65
	8	3	10	14	14	15	16	12	14	15	12	10
250	0.45	0.57	0.48	0.46	0.56	0.48	0.56	0.35	0.21	0.26	0.35	
	8	3	10	14	14	15	16	12	14	14	12	
300	0.43	0.48	0.40	0.42	0.49	0.38	0.45	0.33	0.15	0.25	0.31	
	8	3	10	14	14	15	16	12	14	14	12	
400	0.28	0.22	0.34	0.38	0.30	0.22	0.19	0.13	0.13	0.13	0.26	
	8	3	10	14	13	15	16	11	14	14	12	
500	0.16	0.31	0.20	0.13	0.13	0.13	0.09	0.13	0.12	0.07	0.12	
	8	3	10	14	13	15	13	11	12	13	10	

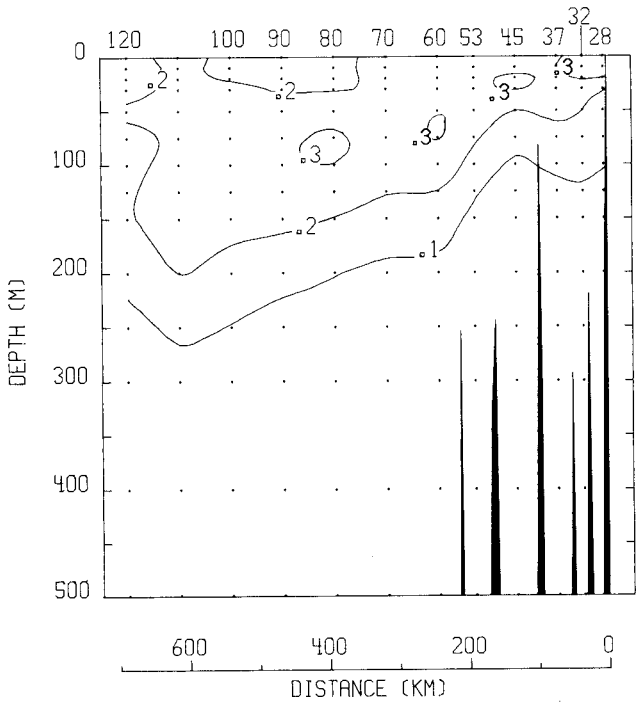
JULY LINE 90



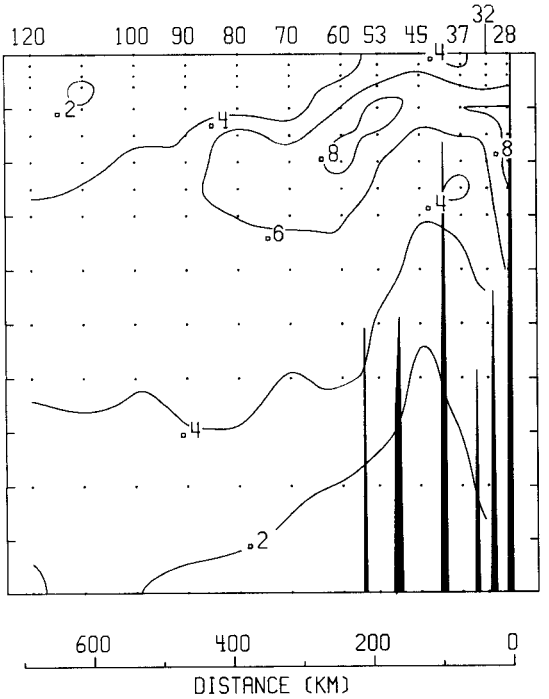
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.89	0.91	1.21	1.01	1.06	1.02	1.28	1.97	1.36	1.69	1.73
	3	5	14	19	20	21	21	21	13	9	9
10	0.79	0.95	1.14	1.00	1.08	0.91	1.41	1.93	1.30	1.44	1.29
	3	5	13	19	21	20	21	22	12	9	9
20	0.53	0.68	1.01	0.96	1.05	0.82	1.59	1.97	1.16	1.66	1.84
	3	5	14	20	22	21	22	22	13	9	9
30	0.22	0.53	1.00	1.16	1.22	1.03	1.78	1.92	0.97	2.09	1.10
	3	5	14	20	22	21	22	22	13	9	7
50	0.41	0.69	1.23	1.32	1.83	1.52	1.70	1.36	1.66	2.25	
	3	5	14	20	22	21	22	22	10	8	
75	0.33	0.64	1.28	1.55	2.04	1.49	1.43	0.61			
	3	6	14	20	22	21	22	22			
100	0.79	0.70	1.41	1.69	1.73	1.11	0.89	0.43			
	3	6	14	20	22	21	22	22			
125	1.76	0.57	1.21	1.12	1.08	0.69	0.58	0.59			
	3	6	14	20	22	21	22	22			
150	1.48	0.30	0.64	0.62	0.59	0.59	0.65	0.73			
	3	6	14	20	22	21	22	22			
200	0.45	0.28	0.37	0.39	0.50	0.62	0.73	0.72			
	3	6	14	20	22	21	22	22			
250	0.27	0.46	0.47	0.39	0.58	0.70	0.64	0.71			
	3	6	14	20	22	21	22	22			
300	0.29	0.49	0.54	0.38	0.61	0.68	0.62	0.66			
	3	5	14	20	22	21	22	22			
400	0.07	0.36	0.42	0.28	0.46	0.47	0.44	0.65			
	3	5	14	20	22	21	21	22			
500	0.24	0.39	0.18	0.24	0.36	0.33	0.30	0.46			
	3	5	14	20	21	21	20	19			

STD. DEV. OF SALINITY (PPT) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.07	0.08	0.30	0.18	0.13	0.17	0.15	0.13	0.13	0.10	0.15
	3	5	14	19	20	21	21	21	12	10	10
10	0.06	0.08	0.28	0.18	0.13	0.16	0.15	0.13	0.12	0.09	0.15
	3	5	13	18	20	20	20	21	11	10	10
20	0.04	0.11	0.22	0.22	0.12	0.15	0.13	0.22	0.11	0.07	0.16
	3	5	13	19	21	20	21	21	12	10	10
30	0.02	0.13	0.25	0.24	0.09	0.14	0.15	0.17	0.12	0.07	0.14
	3	5	13	19	21	20	21	21	12	10	8
50	0.09	0.13	0.28	0.20	0.12	0.14	0.17	0.19	0.12	0.08	
	3	5	13	19	21	20	21	21	9	9	
75	0.05	0.10	0.22	0.19	0.15	0.17	0.19	0.24			
	3	5	13	19	21	20	21	21			
100	0.22	0.04	0.17	0.18	0.15	0.18	0.27	0.22			
	3	5	13	19	21	20	21	21			
125	0.32	0.09	0.14	0.14	0.20	0.19	0.24	0.20			
	3	5	13	19	21	20	21	21			
150	0.15	0.12	0.15	0.15	0.20	0.17	0.20	0.19			
	3	5	13	19	21	20	21	21			
200	0.02	0.14	0.16	0.15	0.17	0.14	0.17	0.14			
	3	5	13	19	21	20	21	21			
250	0.03	0.14	0.11	0.10	0.13	0.12	0.12	0.12			
	3	5	13	19	21	20	21	21			
300	0.02	0.11	0.10	0.08	0.10	0.10	0.10	0.11			
	3	5	13	19	21	20	21	21			
400	0.01	0.06	0.06	0.06	0.07	0.06	0.07	0.09			
	3	5	13	19	21	20	20	21			
500	0.01	0.05	0.03	0.03	0.05	0.05	0.05	0.05			
	3	5	13	19	20	20	18	18			

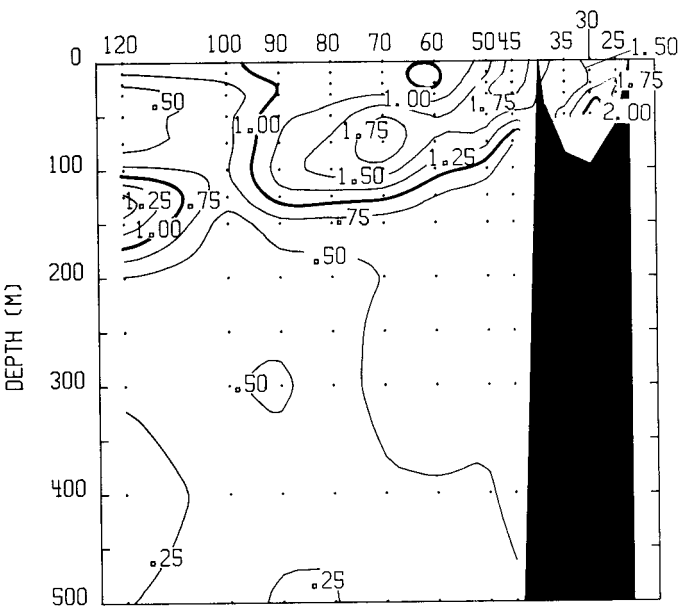
STD. DEV. OF SIGMA-T LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.28	0.29	0.27	0.27	0.24	0.25	0.32	0.48	0.34	0.41	0.41
	3	5	13	19	20	20	21	21	12	9	9
10	0.26	0.30	0.22	0.26	0.25	0.22	0.33	0.50	0.32	0.34	0.30
	3	5	13	18	20	20	20	21	11	9	9
20	0.17	0.22	0.22	0.24	0.23	0.17	0.36	0.45	0.28	0.37	0.38
	3	5	13	19	21	20	21	21	12	9	9
30	0.07	0.17	0.16	0.25	0.27	0.22	0.38	0.43	0.22	0.46	0.23
	3	5	13	19	21	20	21	21	12	9	7
50	0.04	0.09	0.15	0.26	0.37	0.29	0.39	0.35	0.36	0.46	
	3	5	13	19	21	20	21	21	9	8	
75	0.07	0.08	0.16	0.30	0.40	0.34	0.39	0.24			
	3	5	13	19	21	20	21	21			
100	0.14	0.15	0.21	0.31	0.38	0.29	0.30	0.16			
	3	5	13	19	21	20	21	21			
125	0.21	0.17	0.17	0.26	0.31	0.23	0.21	0.09			
	3	5	13	19	21	20	21	21			
150	0.20	0.12	0.18	0.21	0.23	0.16	0.14	0.07			
	3	5	13	19	21	20	21	21			
200	0.09	0.08	0.08	0.12	0.12	0.08	0.09	0.06			
	3	5	13	19	21	20	21	21			
250	0.02	0.04	0.06	0.07	0.08	0.06	0.06	0.06			
	3	5	13	19	21	20	21	21			
300	0.03	0.02	0.05	0.05	0.06	0.06	0.05	0.05			
	3	5	13	19	21	20	21	21			
400	0.02	0.01	0.04	0.03	0.06	0.05	0.04	0.04			
	3	5	13	19	21	20	20	21			
500	0.02	0.02	0.02	0.03	0.05	0.04	0.03	0.04			
	3	5	13	19	20	20	18	18			

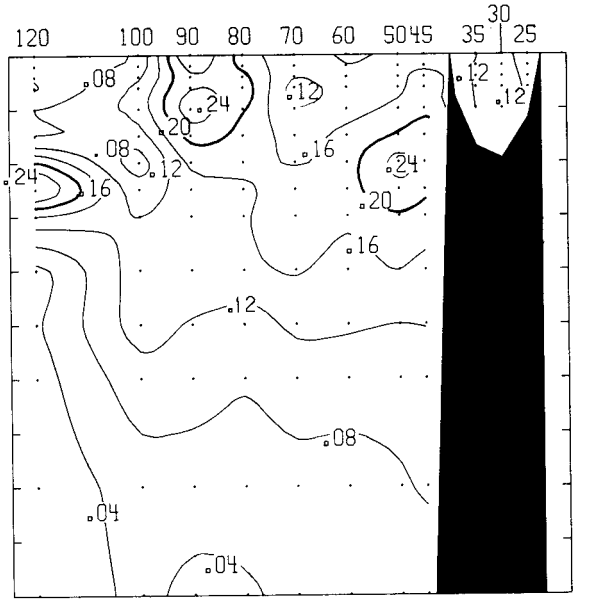
STD. DEV. OF OXYGEN (ML/L) LINE 120 JULY

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.24	0.33	0.43	0.32	0.21	0.26	0.75	0.47	0.45	0.43	0.44
	3	4	11	12	14	14	14	15	6	4	4
10	0.27	0.43	0.41	0.26	0.20	0.38	0.33	0.53	0.52	0.53	0.38
	3	4	11	12	14	14	14	15	6	4	4
20	0.22	0.31	0.32	0.27	0.26	0.27	0.30	0.43	0.34	0.63	0.65
	3	4	11	12	14	14	14	15	6	4	4
30	0.16	0.27	0.31	0.27	0.33	0.26	0.42	0.70	0.24	0.62	0.38
	3	4	11	12	14	14	14	15	6	4	3
50	0.29	0.31	0.35	0.19	0.33	0.34	0.93	1.22	0.23	0.77	
	3	4	11	12	14	14	14	15	4	3	
75	0.31	0.29	0.33	0.60	0.52	0.70	0.91	1.29			
	3	4	11	12	14	14	14	15			
100	0.22	0.33	0.31	0.73	0.77	0.75	0.91	1.20			
	3	3	10	11	13	14	13	14			
125	0.12	0.30	0.36	0.88	0.88	0.72	0.91	1.02			
	3	3	10	11	13	14	13	14			
150	0.46	0.09	0.84	0.86	0.88	0.77	0.89	0.88			
	3	3	10	11	13	14	13	14			
200	0.33	0.32	0.78	0.68	0.73	0.84	0.62	0.52			
	3	3	10	11	13	14	13	14			
250	0.51	0.45	0.59	0.49	0.55	0.63	0.36	0.38			
	3	3	10	11	13	14	13	14			
300	0.22	0.38	0.47	0.34	0.33	0.43	0.23	0.27			
	3	3	10	11	13	14	13	14			
400	0.17	0.18	0.20	0.14	0.17	0.15	0.12	0.17			
	3	3	10	11	13	14	12	14			
500	0.11	0.09	0.09	0.07	0.10	0.08	0.09	0.08			
	3	3	10	11	12	14	11	11			

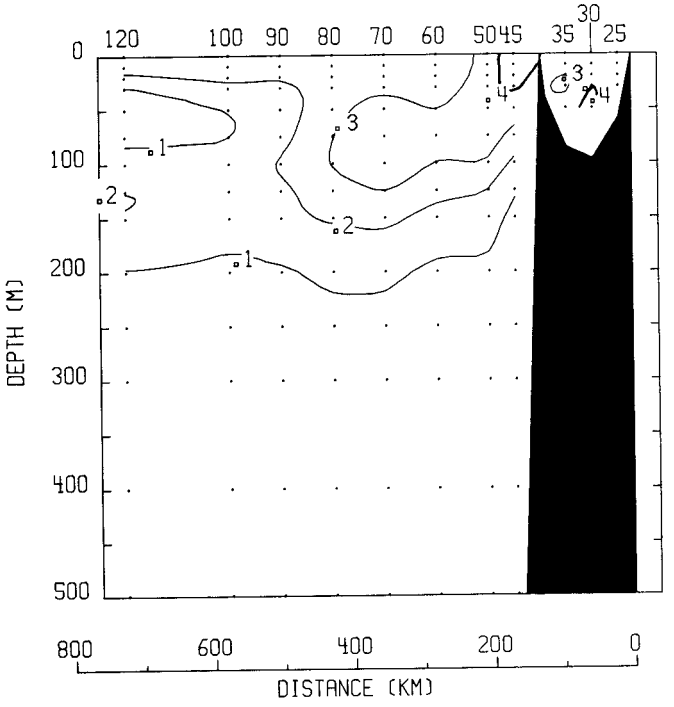
JULY LINE 120



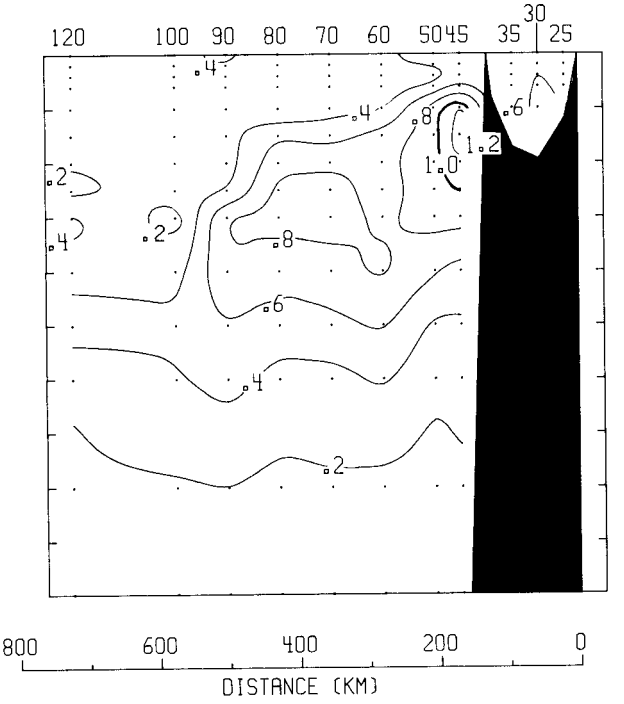
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 060 OCTOBER

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.80	1.03	0.66	0.72	0.84	0.82	0.83
	3	5	9	8	9	9	9
10	0.71	0.97	0.65	0.76	1.05	0.82	1.04
	3	5	9	9	9	8	9
20	0.67	0.90	0.62	1.02	1.38	0.88	0.84
	3	5	9	9	9	9	9
30	0.53	1.10	0.77	1.44	1.76	1.23	0.72
	3	5	9	9	9	9	9
50	0.98	1.74	1.80	1.26	0.77	0.75	0.54
	3	5	9	9	9	9	9
75	1.06	1.46	1.46	0.80	0.34	0.50	
	3	5	9	9	9	9	
100	0.66	1.36	1.11	0.46	0.27	0.37	
	3	5	9	9	9	9	
125	0.99	1.10	0.80	0.38	0.17	0.30	
	3	5	9	9	9	9	
150	0.68	0.72	0.67	0.30	0.18	0.24	
	3	5	9	9	9	9	
200	0.13	0.42	0.54	0.31	0.30	0.28	
	3	5	9	9	9	9	
250	0.08	0.35	0.49	0.21	0.27	0.38	
	3	5	9	9	9	9	
300	0.12	0.26	0.41	0.27	0.22	0.30	
	3	5	9	9	9	9	
400	0.22	0.24	0.43	0.29	0.38	0.36	
	3	5	8	9	9	9	
500	0.14	0.26	0.30	0.21	0.31	0.20	
	3	5	7	8	9	9	

STD. DEV. OF SALINITY (PPT) LINE 060 OCTOBER

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.18	0.19	0.21	0.23	0.26	0.19	0.26
	3	4	9	8	9	9	9
10	0.18	0.18	0.20	0.24	0.22	0.19	0.24
	3	4	9	8	9	8	9
20	0.17	0.17	0.23	0.24	0.18	0.17	0.19
	3	4	8	8	8	8	8
30	0.16	0.16	0.22	0.24	0.15	0.17	0.15
	3	4	8	8	8	8	8
50	0.14	0.16	0.15	0.20	0.18	0.22	0.13
	3	4	8	8	8	8	8
75	0.13	0.18	0.15	0.20	0.20	0.16	
	3	4	8	8	8	8	
100	0.09	0.20	0.20	0.19	0.13	0.12	
	3	4	8	8	8	8	
125	0.12	0.15	0.22	0.14	0.09	0.07	
	3	4	8	8	8	8	
150	0.15	0.11	0.17	0.09	0.06	0.06	
	3	4	8	8	8	8	
200	0.12	0.04	0.06	0.04	0.05	0.04	
	3	4	8	8	8	8	
250	0.06	0.03	0.03	0.04	0.05	0.04	
	3	4	8	8	8	8	
300	0.01	0.04	0.04	0.05	0.05	0.03	
	3	4	8	8	8	8	
400	0.03	0.05	0.05	0.05	0.06	0.04	
	3	4	7	8	8	8	
500	0.01	0.03	0.04	0.04	0.04	0.02	
	3	4	6	7	8	8	

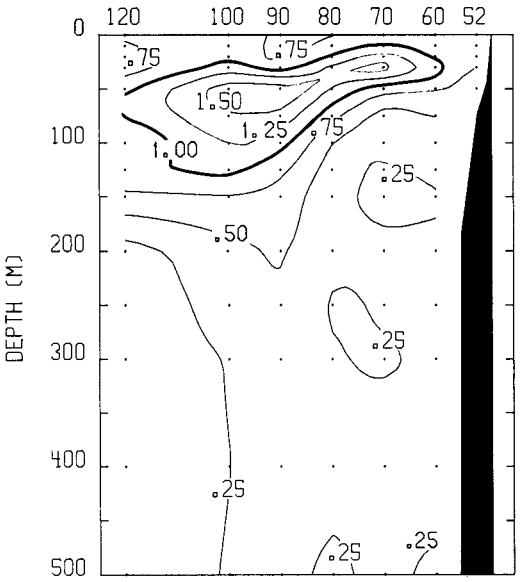
STD. DEV. OF SIGMA-T LINE 060 OCTOBER

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.25	0.38	0.29	0.25	0.17	0.26	0.26
	3	4	8	8	8	8	8
10	0.22	0.34	0.28	0.23	0.19	0.27	0.27
	3	4	9	8	9	8	9
20	0.20	0.30	0.26	0.24	0.25	0.28	0.14
	3	4	8	8	8	8	8
30	0.16	0.28	0.23	0.27	0.36	0.29	0.15
	3	4	8	8	8	8	8
50	0.18	0.32	0.37	0.28	0.25	0.25	0.14
	3	4	8	8	8	8	7
75	0.23	0.27	0.34	0.24	0.18	0.17	
	3	4	8	8	8	8	
100	0.17	0.26	0.33	0.17	0.12	0.13	
	3	4	8	8	8	8	
125	0.18	0.24	0.29	0.14	0.08	0.09	
	3	4	8	8	8	8	
150	0.17	0.19	0.22	0.09	0.06	0.08	
	3	4	8	8	8	8	
200	0.11	0.09	0.11	0.05	0.04	0.05	
	3	4	8	8	8	8	
250	0.05	0.07	0.08	0.03	0.03	0.04	
	3	4	8	8	8	8	
300	0.02	0.06	0.07	0.04	0.03	0.03	
	3	4	8	8	8	8	
400	0.02	0.05	0.04	0.03	0.03	0.02	
	3	4	7	8	8	8	
500	0.01	0.04	0.03	0.04	0.03	0.02	
	3	4	6	7	8	8	

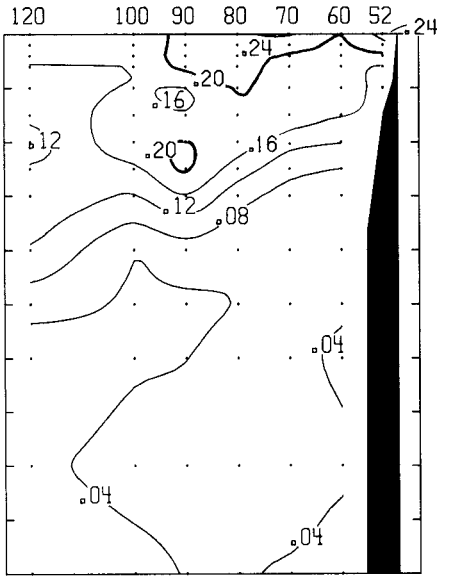
STD. DEV. OF OXYGEN (ML/L) LINE 060 OCTOBER

DEPTH	60120	60100	60090	60080	60070	60060	60052
0	0.10	0.10	0.13	0.43	0.28	0.28	0.42
	3	5	8	8	8	8	8
10	0.16	0.08	0.13	0.42	0.27	0.18	0.23
	3	5	8	8	8	7	7
20	0.18	0.07	0.10	0.35	0.28	0.24	0.28
	3	5	8	8	8	8	8
30	0.19	0.15	0.15	0.30	0.19	0.40	0.61
	3	5	8	8	8	8	8
50	0.56	0.18	0.21	0.48	0.21	0.68	0.83
	3	5	8	8	8	8	8
75	0.18	0.24	0.61	0.78	0.36	0.43	
	3	5	8	8	8	8	
100	0.17	0.26	0.73	0.72	0.43	0.29	
	3	5	8	8	8	8	
125	0.23	0.51	0.79	0.77	0.33	0.49	
	3	5	8	8	8	8	
150	0.44	0.65	0.78	0.66	0.42	0.47	
	3	5	8	8	8	8	
200	0.31	0.69	0.70	0.49	0.58	0.42	
	3	5	8	8	8	8	
250	0.39	0.62	0.60	0.38	0.48	0.31	
	3	5	8	8	8	8	
300	0.05	0.48	0.57	0.30	0.33	0.21	
	3	5	8	8	8	8	
400	0.57	0.36	0.39	0.11	0.20	0.14	
	3	5	7	8	8	8	
500	0.16	0.10	0.30	0.14	0.08	0.09	
	3	5	6	7	8	8	

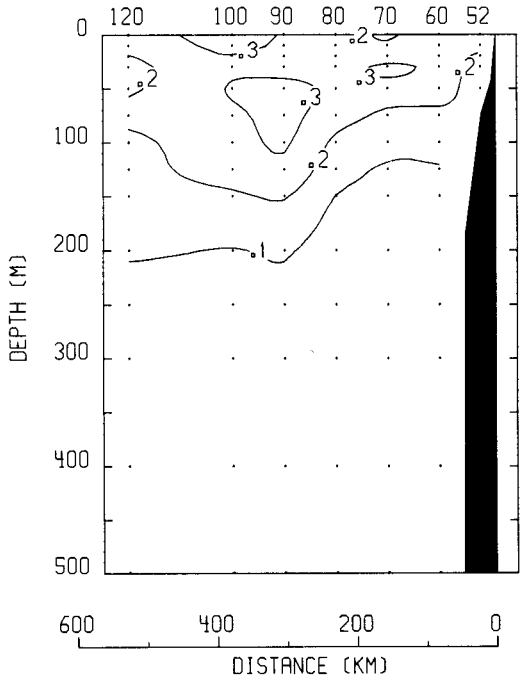
OCTOBER LINE 60



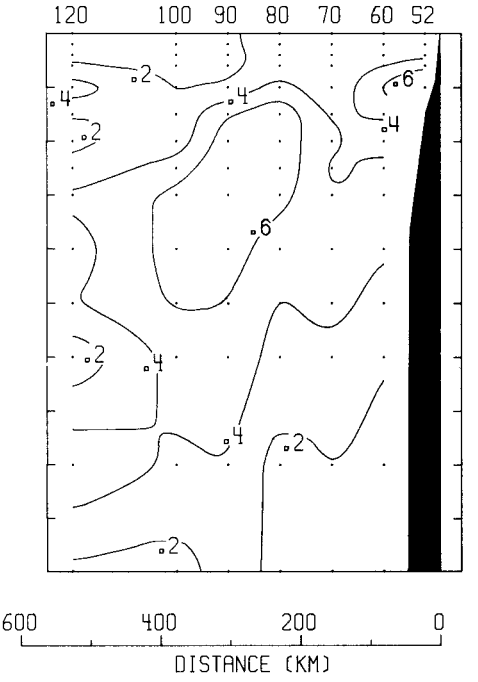
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 090 OCTOBER

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.54	0.91	1.03	1.00	0.83	0.80	1.13	1.18	1.14	1.05	1.34
	7	8	13	14	16	16	16	16	16	16	14
10	0.53	0.77	1.01	0.96	0.82	0.81	1.16	1.36	1.43	1.08	1.66
	7	8	13	14	16	15	16	16	16	16	14
20	0.51	0.80	1.11	0.95	0.87	0.75	1.15	1.85	1.95	1.53	1.64
	7	8	13	14	16	15	16	16	16	16	14
30	0.34	0.86	1.23	0.97	1.21	0.63	1.39	2.36	2.01	1.64	1.26
	7	8	13	14	16	16	16	16	16	16	14
50	1.21	1.40	1.71	0.77	1.85	1.40	1.40	1.64	1.22	1.18	1.24
	7	8	13	14	16	16	16	16	16	16	14
75	0.99	1.55	1.21	0.82	0.99	0.78	1.00	1.12	0.90	0.85	0.98
	7	8	13	14	16	15	16	16	16	16	13
100	1.07	1.61	1.21	0.76	0.63	0.38	0.60	0.67	0.60	0.66	0.86
	7	8	13	14	16	15	16	16	16	16	12
125	1.00	1.60	0.88	0.57	0.42	0.25	0.43	0.49	0.45	0.60	0.69
	7	8	13	14	16	15	16	16	16	16	11
150	0.63	1.00	0.53	0.43	0.34	0.19	0.39	0.45	0.41	0.54	0.56
	7	8	13	14	16	15	16	16	16	16	10
200	0.17	0.38	0.31	0.35	0.22	0.20	0.33	0.34	0.30	0.50	0.37
	7	8	13	14	16	15	16	16	16	16	9
250	0.20	0.24	0.28	0.34	0.22	0.23	0.40	0.26	0.35	0.47	
	7	8	13	14	16	15	16	16	16	16	
300	0.26	0.22	0.27	0.31	0.26	0.21	0.39	0.24	0.27	0.32	
	7	8	13	14	16	15	16	16	16	16	
400	0.33	0.29	0.23	0.28	0.31	0.29	0.35	0.20	0.21	0.24	
	7	8	13	13	16	15	15	16	16	15	
500	0.19	0.17	0.20	0.22	0.26	0.25	0.22	0.12	0.12	0.19	
	7	8	13	13	16	15	15	16	16	11	

STD. DEV. OF SALINITY (PPT) LINE 090 OCTOBER

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.15	0.09	0.17	0.16	0.16	0.17	0.12	0.15	0.13	0.13	0.15
	7	8	13	14	16	16	16	16	15	15	14
10	0.14	0.08	0.17	0.16	0.16	0.16	0.12	0.15	0.16	0.15	0.14
	7	8	13	14	16	15	16	16	15	15	14
20	0.13	0.09	0.17	0.15	0.15	0.16	0.11	0.21	0.12	0.16	0.12
	7	8	13	14	16	15	16	16	15	15	14
30	0.13	0.11	0.18	0.15	0.19	0.15	0.14	0.14	0.10	0.11	0.12
	7	8	13	14	16	16	16	16	15	15	14
50	0.17	0.17	0.14	0.14	0.17	0.15	0.15	0.15	0.10	0.13	0.11
	7	8	13	14	16	16	16	16	15	15	14
75	0.16	0.18	0.14	0.11	0.15	0.17	0.16	0.13	0.11	0.10	0.11
	7	8	13	14	16	15	16	16	15	15	13
100	0.18	0.17	0.19	0.14	0.15	0.17	0.15	0.12	0.12	0.10	0.09
	7	8	13	14	16	15	16	16	15	15	12
125	0.12	0.10	0.18	0.12	0.13	0.14	0.11	0.11	0.11	0.09	0.08
	7	8	13	14	16	15	16	16	15	15	11
150	0.07	0.07	0.16	0.08	0.10	0.10	0.08	0.10	0.10	0.09	0.07
	7	8	13	14	16	15	16	16	15	15	10
200	0.07	0.08	0.08	0.04	0.06	0.06	0.05	0.08	0.07	0.08	0.08
	7	8	13	14	16	15	16	16	15	15	9
250	0.02	0.05	0.06	0.03	0.07	0.05	0.05	0.06	0.06	0.06	
	7	8	13	14	16	15	16	16	15	15	
300	0.04	0.04	0.05	0.04	0.07	0.04	0.06	0.05	0.05	0.05	
	7	8	13	14	16	15	16	16	15	15	
400	0.06	0.05	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.02	
	7	8	13	13	16	15	15	16	15	14	
500	0.04	0.03	0.05	0.05	0.05	0.03	0.04	0.03	0.03	0.03	
	7	8	13	13	16	15	15	16	15	10	

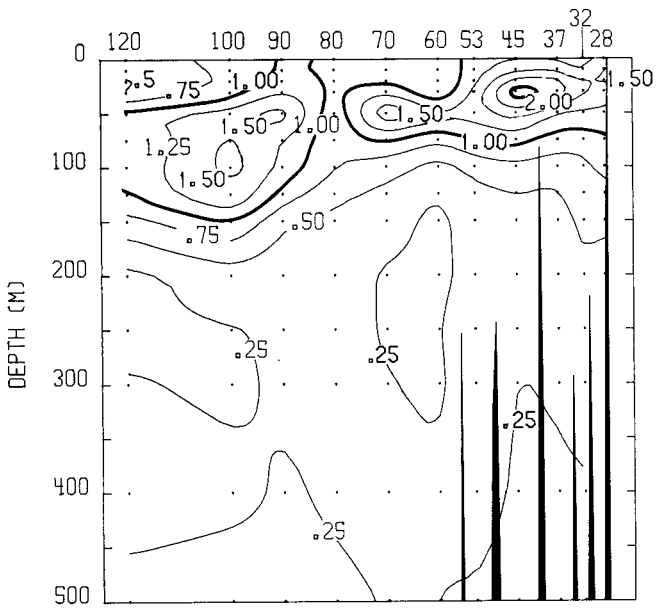
STD. DEV. OF SIGMA-T LINE 090 OCTOBER

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.14	0.20	0.25	0.25	0.20	0.23	0.27	0.28	0.29	0.25	0.28
	7	8	13	14	16	16	16	16	15	15	14
10	0.12	0.16	0.24	0.24	0.19	0.21	0.28	0.31	0.33	0.26	0.35
	7	8	13	14	16	15	16	16	15	15	14
20	0.12	0.17	0.27	0.24	0.21	0.19	0.27	0.41	0.43	0.36	0.33
	7	8	13	14	16	15	16	16	15	15	14
30	0.09	0.19	0.29	0.26	0.25	0.16	0.31	0.52	0.42	0.38	0.28
	7	8	13	14	16	16	16	16	15	15	14
50	0.17	0.28	0.36	0.21	0.33	0.26	0.30	0.40	0.28	0.27	0.25
	7	8	13	14	16	16	16	16	15	15	14
75	0.13	0.21	0.28	0.21	0.25	0.25	0.26	0.28	0.24	0.20	0.22
	7	8	13	14	16	15	16	16	15	15	13
100	0.10	0.19	0.27	0.19	0.20	0.17	0.20	0.20	0.19	0.17	0.19
	7	8	13	14	16	15	16	16	15	15	12
125	0.12	0.24	0.23	0.16	0.15	0.13	0.14	0.15	0.15	0.15	0.16
	7	8	13	14	16	15	16	16	15	15	11
150	0.10	0.20	0.19	0.13	0.11	0.08	0.10	0.12	0.12	0.13	0.13
	7	8	13	14	16	15	16	16	15	15	10
200	0.08	0.12	0.10	0.07	0.06	0.04	0.06	0.08	0.06	0.09	0.11
	7	8	13	14	16	15	16	16	15	15	9
250	0.04	0.07	0.06	0.06	0.05	0.03	0.05	0.06	0.03	0.06	
	7	8	13	14	16	15	16	16	15	15	
300	0.04	0.04	0.05	0.05	0.04	0.03	0.04	0.05	0.04	0.04	
	7	8	13	14	16	15	16	16	15	15	
400	0.03	0.02	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.03	
	7	8	13	13	16	15	15	16	15	14	
500	0.03	0.02	0.03	0.03	0.04	0.03	0.04	0.03	0.03	0.04	
	7	8	13	13	16	15	15	16	15	10	

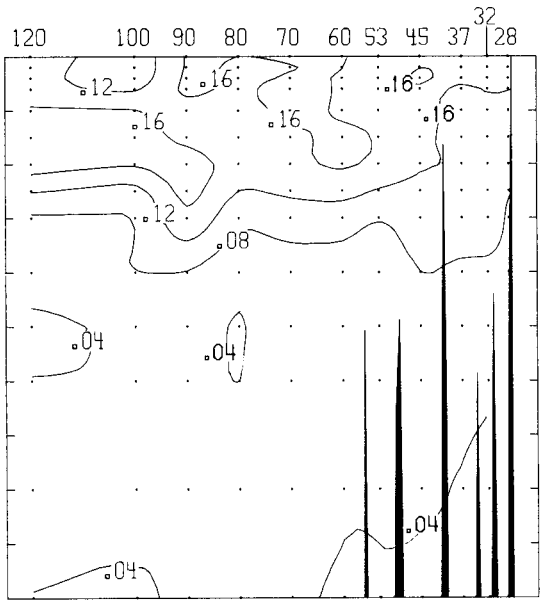
STD. DEV. OF OXYGEN (ML/L) LINE 090 OCTOBER

DEPTH	90120	90100	90090	90080	90070	90060	90053	90045	90037	90032	90028
0	0.16	0.13	0.29	0.40	0.20	0.31	0.25	0.25	0.35	0.30	0.25
	4	5	10	11	11	11	11	12	11	12	11
10	0.13	0.11	0.22	0.37	0.21	0.30	0.27	0.31	0.32	0.33	0.32
	4	5	10	11	11	11	11	12	11	12	11
20	0.14	0.12	0.25	0.42	0.25	0.25	0.24	0.31	0.30	0.36	0.38
	4	5	10	11	11	12	11	12	11	12	11
30	0.15	0.16	0.24	0.44	0.31	0.31	0.28	0.49	0.37	0.28	0.59
	4	5	10	11	11	12	11	12	11	12	11
50	0.30	0.21	0.25	0.23	0.39	0.31	0.39	0.86	0.47	0.55	0.60
	4	5	10	11	11	12	11	12	11	12	11
75	0.19	0.18	0.53	0.49	0.62	0.52	0.51	0.82	0.56	0.46	0.52
	4	5	10	11	11	11	11	12	11	12	10
100	0.16	0.21	0.73	0.60	0.67	0.52	0.48	0.65	0.46	0.41	0.39
	4	5	10	11	11	11	11	12	11	12	10
125	0.24	0.31	0.78	0.55	0.51	0.47	0.42	0.56	0.41	0.37	0.36
	4	5	10	11	11	11	11	12	11	12	9
150	0.22	0.33	0.57	0.50	0.46	0.36	0.31	0.50	0.39	0.42	0.35
	4	5	10	11	11	11	11	12	11	12	9
200	0.32	0.37	0.56	0.62	0.34	0.43	0.34	0.44	0.23	0.43	0.28
	4	5	10	11	11	11	11	12	11	12	9
250	0.27	0.23	0.44	0.46	0.41	0.26	0.22	0.33	0.25	0.35	
	4	5	10	11	11	11	11	12	11	12	
300	0.31	0.18	0.40	0.34	0.34	0.15	0.22	0.31	0.22	0.31	
	4	5	10	11	11	11	11	12	11	12	
400	0.17	0.18	0.22	0.18	0.29	0.10	0.15	0.11	0.12	0.19	
	4	5	10	10	10	11	10	12	11	11	
500	0.12	0.05	0.13	0.10	0.31	0.09	0.08	0.07	0.08	0.08	
	4	5	10	10	10	11	10	12	11	9	

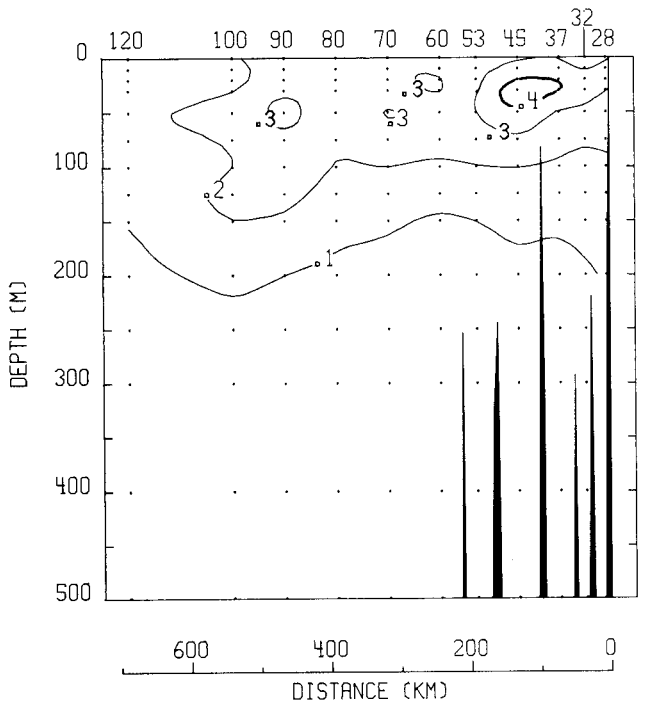
OCTOBER LINE 90



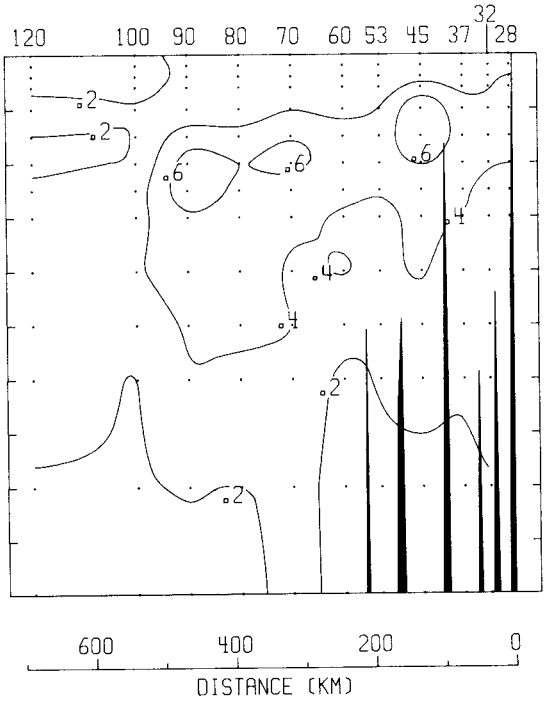
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



STD DEV: OXYGEN

STD. DEV. OF TEMPERATURE (DEG. C) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.33	0.90	0.61	0.94	0.90	0.97	1.18	1.71	1.55	1.26	1.42
	3	4	12	13	16	14	15	14	10	8	9
10	0.29	0.90	0.60	0.94	0.90	1.00	1.21	1.77	1.77	1.37	1.54
	3	4	12	13	16	14	15	14	9	8	9
20	0.27	0.99	0.64	1.03	0.92	1.22	1.42	1.95	1.86	1.29	1.81
	3	4	12	13	16	14	15	14	9	8	9
30	0.27	1.10	1.04	1.22	1.20	1.50	2.09	2.56	2.34	1.28	2.36
	3	4	12	13	16	14	15	14	9	8	9
50	0.74	1.25	1.48	1.44	1.42	1.26	1.77	1.81	3.25	2.15	
	3	4	12	13	16	14	15	14	7	8	
75	0.42	1.80	1.45	0.94	1.43	1.00	1.39	1.47			
	3	4	12	13	16	14	15	14			
100	1.34	2.04	1.58	1.09	1.39	0.83	0.96	0.92			
	3	4	12	13	16	14	15	14			
125	1.59	1.87	0.95	0.58	0.95	0.59	0.90	0.60			
	3	4	12	13	16	14	15	14			
150	1.28	1.25	0.50	0.59	0.69	0.67	0.84	0.65			
	3	4	12	13	16	14	15	14			
200	0.41	0.56	0.58	0.77	0.66	0.44	0.70	0.66			
	3	4	12	13	16	14	15	14			
250	0.55	0.19	0.60	0.88	0.65	0.44	0.63	0.50			
	3	4	12	13	16	14	15	14			
300	0.40	0.09	0.64	0.75	0.57	0.32	0.48	0.39			
	3	4	12	13	16	14	15	14			
400	0.41	0.06	0.60	0.59	0.51	0.30	0.30	0.20			
	3	4	12	13	16	14	15	14			
500	0.37	0.16	0.38	0.46	0.39	0.23	0.19	0.16			
	3	4	12	13	16	14	15	14			

STD. DEV. OF SALINITY (PPT) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.26	0.17	0.16	0.20	0.12	0.17	0.22	0.27	0.19	0.14	0.19
	3	4	12	13	16	14	15	14	10	8	9
10	0.26	0.17	0.18	0.20	0.12	0.19	0.22	0.27	0.21	0.16	0.18
	3	4	12	13	16	14	15	14	10	8	9
20	0.26	0.16	0.18	0.20	0.12	0.17	0.26	0.27	0.19	0.15	0.19
	3	4	12	13	16	14	15	14	10	8	9
30	0.26	0.17	0.18	0.21	0.14	0.17	0.23	0.22	0.22	0.14	0.18
	3	4	12	13	16	14	15	14	10	8	9
50	0.27	0.20	0.18	0.21	0.16	0.17	0.23	0.15	0.18	0.15	
	3	4	12	13	16	14	15	14	8	8	
75	0.19	0.21	0.17	0.12	0.12	0.17	0.27	0.17			
	3	4	12	13	16	14	15	14			
100	0.19	0.17	0.17	0.08	0.16	0.18	0.22	0.17			
	3	4	12	13	16	14	15	14			
125	0.17	0.12	0.19	0.16	0.21	0.17	0.22	0.17			
	3	4	12	13	16	14	15	14			
150	0.06	0.14	0.19	0.24	0.21	0.17	0.17	0.20			
	3	4	12	13	16	14	15	14			
200	0.10	0.14	0.20	0.22	0.18	0.11	0.11	0.14			
	3	4	12	13	16	14	15	14			
250	0.05	0.06	0.13	0.18	0.14	0.08	0.08	0.11			
	3	4	12	13	16	14	15	14			
300	0.06	0.08	0.12	0.12	0.12	0.05	0.07	0.09			
	3	4	12	13	16	14	15	14			
400	0.05	0.04	0.10	0.06	0.11	0.04	0.06	0.04			
	3	4	12	13	16	14	15	14			
500	0.05	0.02	0.07	0.07	0.07	0.03	0.04	0.03			
	3	4	12	13	16	14	15	14			

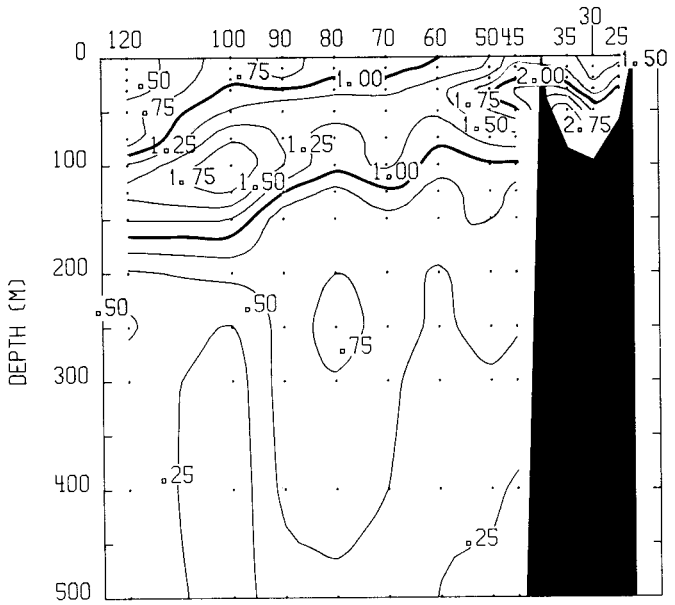
STD. DEV. OF SIGMA-T LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.15	0.14	0.20	0.22	0.22	0.22	0.27	0.32	0.34	0.27	0.29
	3	4	12	13	16	14	15	14	10	8	9
10	0.15	0.15	0.22	0.23	0.21	0.23	0.26	0.35	0.35	0.30	0.32
	3	4	12	13	16	14	15	14	9	8	9
20	0.15	0.16	0.23	0.23	0.21	0.28	0.33	0.38	0.36	0.28	0.29
	3	4	12	13	16	14	15	14	9	8	9
30	0.17	0.15	0.26	0.25	0.26	0.32	0.45	0.49	0.45	0.26	0.40
	3	4	12	13	16	14	15	14	9	8	9
50	0.06	0.19	0.28	0.28	0.30	0.28	0.40	0.35	0.64	0.43	
	3	4	12	13	16	14	15	14	7	8	
75	0.09	0.27	0.25	0.17	0.29	0.23	0.31	0.30			
	3	4	12	13	16	14	15	14			
100	0.17	0.34	0.30	0.22	0.29	0.21	0.20	0.20			
	3	4	12	13	16	14	15	14			
125	0.20	0.34	0.28	0.19	0.25	0.12	0.14	0.16			
	3	4	12	13	16	14	15	14			
150	0.20	0.26	0.19	0.17	0.18	0.09	0.09	0.13			
	3	4	12	13	16	14	15	14			
200	0.12	0.08	0.14	0.12	0.09	0.06	0.07	0.09			
	3	4	12	13	16	14	15	14			
250	0.05	0.05	0.07	0.08	0.05	0.05	0.07	0.07			
	3	4	12	13	16	14	15	14			
300	0.04	0.04	0.06	0.07	0.05	0.04	0.07	0.06			
	3	4	12	13	16	14	15	14			
400	0.02	0.02	0.06	0.07	0.06	0.03	0.05	0.04			
	3	4	12	13	16	14	15	14			
500	0.02	0.01	0.05	0.06	0.04	0.03	0.04	0.02			
	3	4	12	13	16	14	15	14			

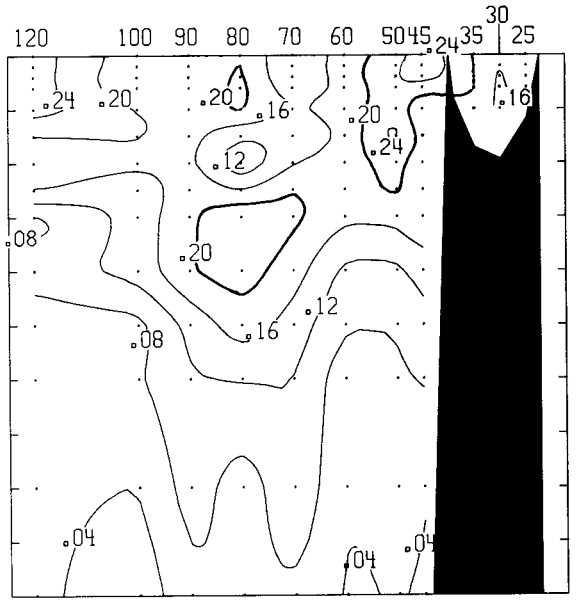
STD. DEV. OF OXYGEN (ML/L) LINE 120 OCTOBER

DEPTH	120120	120100	120090	120080	120070	120060	120050	120045	120035	120030	120025
0	0.09	0.17	0.18	0.36	0.38	0.28	0.27	0.39	0.34	0.29	0.47
	3	3	10	10	12	11	11	11	7	7	6
10	0.12	0.14	0.15	0.21	0.28	0.24	0.25	0.41	0.30	0.31	0.38
	3	3	10	10	12	11	11	11	7	7	7
20	0.13	0.14	0.14	0.28	0.26	0.26	0.29	0.44	0.32	0.31	0.49
	3	3	10	10	12	11	11	11	7	7	7
30	0.13	0.16	0.20	0.38	0.32	0.31	0.46	0.37	0.34	0.34	0.47
	3	3	10	10	12	11	11	11	7	7	7
50	0.14	0.10	0.26	0.37	0.33	0.67	1.27	0.88	0.30	0.34	
	3	3	10	10	12	11	11	11	5	7	
75	0.20	0.14	0.25	0.36	0.78	0.99	1.48	1.08			
	3	3	10	10	12	11	11	11			
100	0.16	0.20	0.67	0.85	1.06	0.96	1.14	0.99			
	3	3	10	10	12	11	11	11			
125	0.21	0.53	0.95	1.22	1.17	0.80	1.13	0.88			
	3	3	10	10	12	11	11	11			
150	0.43	0.45	0.87	1.29	0.91	0.77	0.85	0.79			
	3	3	10	10	12	11	11	11			
200	0.35	0.48	0.81	0.94	0.82	0.31	0.46	0.42			
	3	3	10	10	12	11	11	11			
250	0.54	0.14	0.59	0.76	0.61	0.25	0.29	0.24			
	3	3	10	10	12	11	11	11			
300	0.18	0.33	0.44	0.44	0.46	0.15	0.14	0.23			
	3	3	10	10	12	11	11	11			
400	0.07	0.08	0.18	0.17	0.31	0.12	0.13	0.08			
	3	3	10	10	12	11	11	11			
500	0.08	0.04	0.11	0.14	0.10	0.06	0.10	0.04			
	3	3	10	10	12	11	10	11			

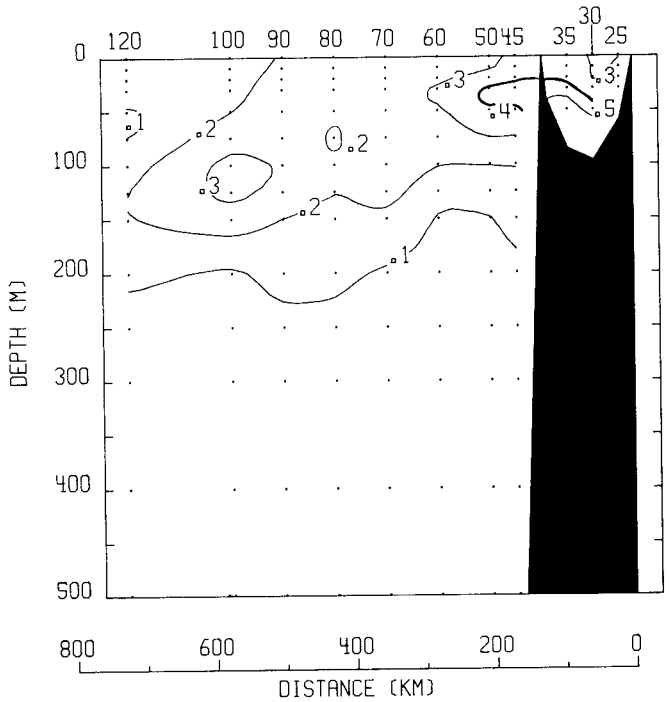
OCTOBER LINE 120



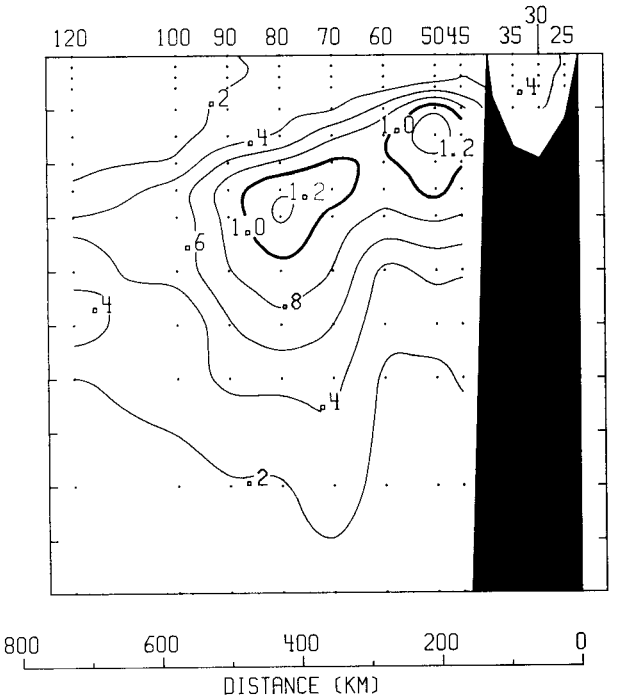
STD DEV: TEMPERATURE



STD DEV: SALINITY



STD DEV: SIGMA-T



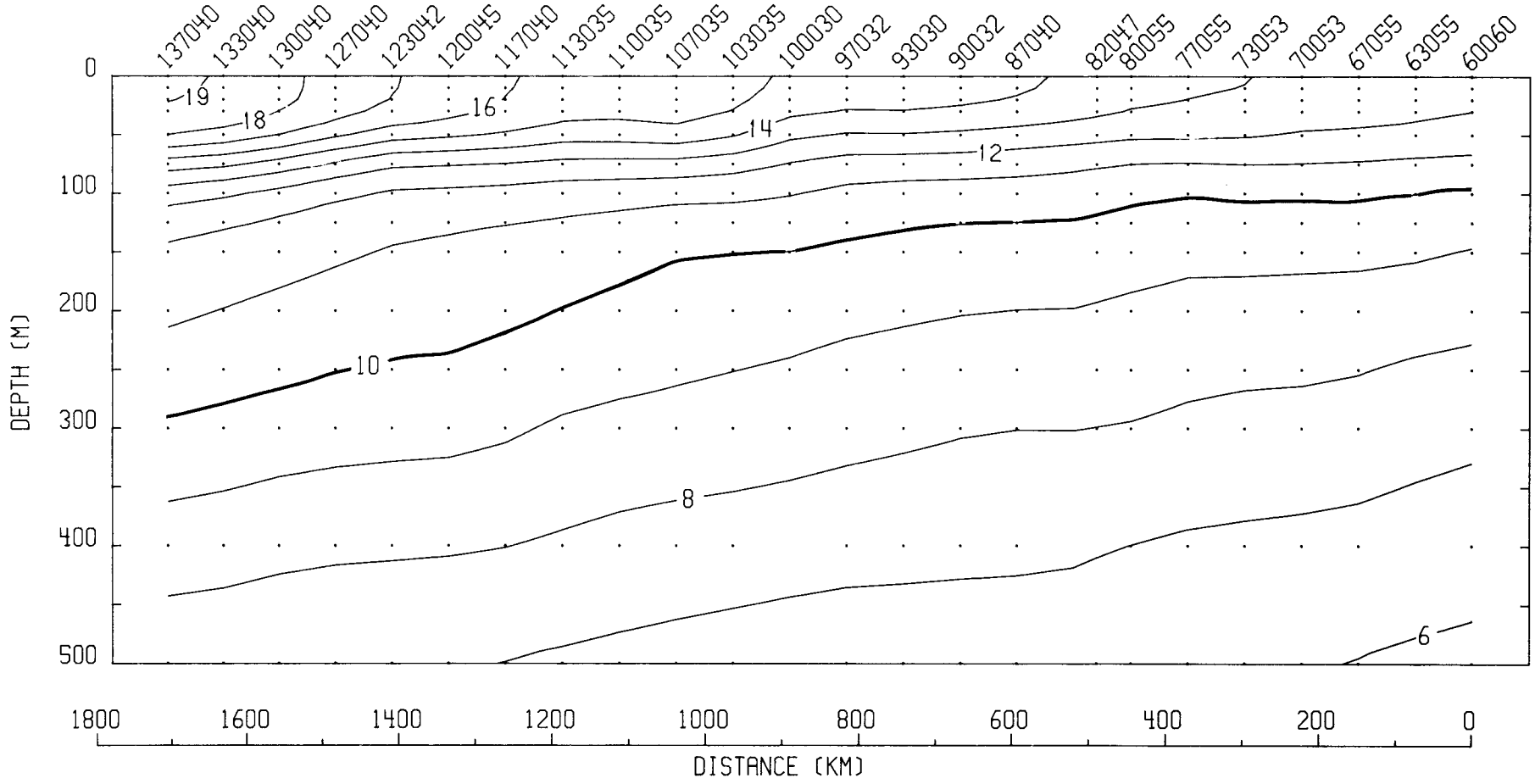
STD DEV: OXYGEN

TEMPERATURE (DEG. C) NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	19.35	18.89	18.32	17.65	17.04	16.67	16.22	15.52	15.83	15.74	15.55	14.65
10	19.31	18.90	18.27	17.66	17.02	16.65	16.17	15.44	15.79	15.63	15.49	14.52
20	19.25	18.82	18.20	17.64	16.94	16.55	16.07	15.34	15.61	15.55	15.45	14.27
30	19.13	18.58	18.11	17.58	16.66	16.44	15.97	15.26	15.40	15.42	15.41	13.86
50	18.39	17.78	17.07	16.67	15.06	15.57	15.04	14.21	14.60	14.79	14.41	12.77
75	15.48	15.06	14.44	13.98	12.60	13.16	12.79	12.59	12.77	12.63	12.48	11.69
100	13.65	12.98	12.56	12.28	11.55	11.90	11.71	11.40	11.59	11.19	11.26	11.10
125	12.65	11.90	11.89	11.57	11.17	11.16	10.99	10.85	10.82	10.40	10.53	10.56
150	11.96	11.36	11.47	11.16	10.86	10.82	10.69	10.44	10.43	10.03	10.01	10.10
200	11.31	10.79	10.89	10.55	10.44	10.36	10.28	9.87	9.79	9.67	9.34	9.43
250	10.67	10.28	10.30	10.03	9.90	9.86	9.75	9.28	9.32	9.10	8.96	9.00
300	9.93	9.57	9.52	9.41	9.37	9.23	9.35	8.66	8.79	8.61	8.55	8.45
400	8.54	8.29	8.28	8.15	8.19	8.05	8.08	7.73	7.73	7.51	7.47	
500	7.33	7.31	7.14	7.08	7.13	6.96	6.93	6.80	6.74	6.65	6.53	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	14.63	14.63	14.63	14.11	14.11	13.08	13.21	13.17	12.54	12.54	12.21	12.14
10	14.45	14.55	14.46	13.96	14.02	13.02	13.12	13.09	12.49	12.53	12.17	12.10
20	14.33	14.35	14.34	13.83	13.79	12.96	13.02	12.97	12.41	12.52	12.06	12.18
30	14.08	14.06	14.12	13.53	13.52	12.81	12.85	12.83	12.29	12.42	11.98	12.12
50	12.96	13.06	13.01	12.41	12.60	11.98	12.28	12.26	11.87	11.92	11.73	11.67
75	11.58	11.47	11.66	11.16	11.35	10.73	10.92	10.94	11.03	10.83	10.74	10.62
100	10.67	10.65	10.64	10.34	10.70	10.05	10.04	10.13	10.14	10.14	10.05	9.68
125	10.20	10.19	9.97	9.86	10.14	9.61	9.53	9.60	9.63	9.56	9.67	9.17
150	9.80	9.77	9.54	9.47	9.72	9.29	9.21	9.18	9.22	9.20	9.28	8.79
200	9.21	9.16	9.00	8.89	9.09	8.82	8.65	8.65	8.60	8.63		8.24
250	8.71	8.72	8.54	8.46	8.60	8.38	8.19	8.09	8.14	8.14		7.65
300	8.30	8.22	8.06	7.92	8.11	7.94	7.82	7.67	7.67	7.62		7.14
400	7.26	7.28	7.18	7.16		6.97	6.85	6.82	6.71	6.75		6.35
500	6.44	6.52	6.49	6.41		6.25	6.05	6.10	6.04	5.99		5.72

NEARSHORE SECTION

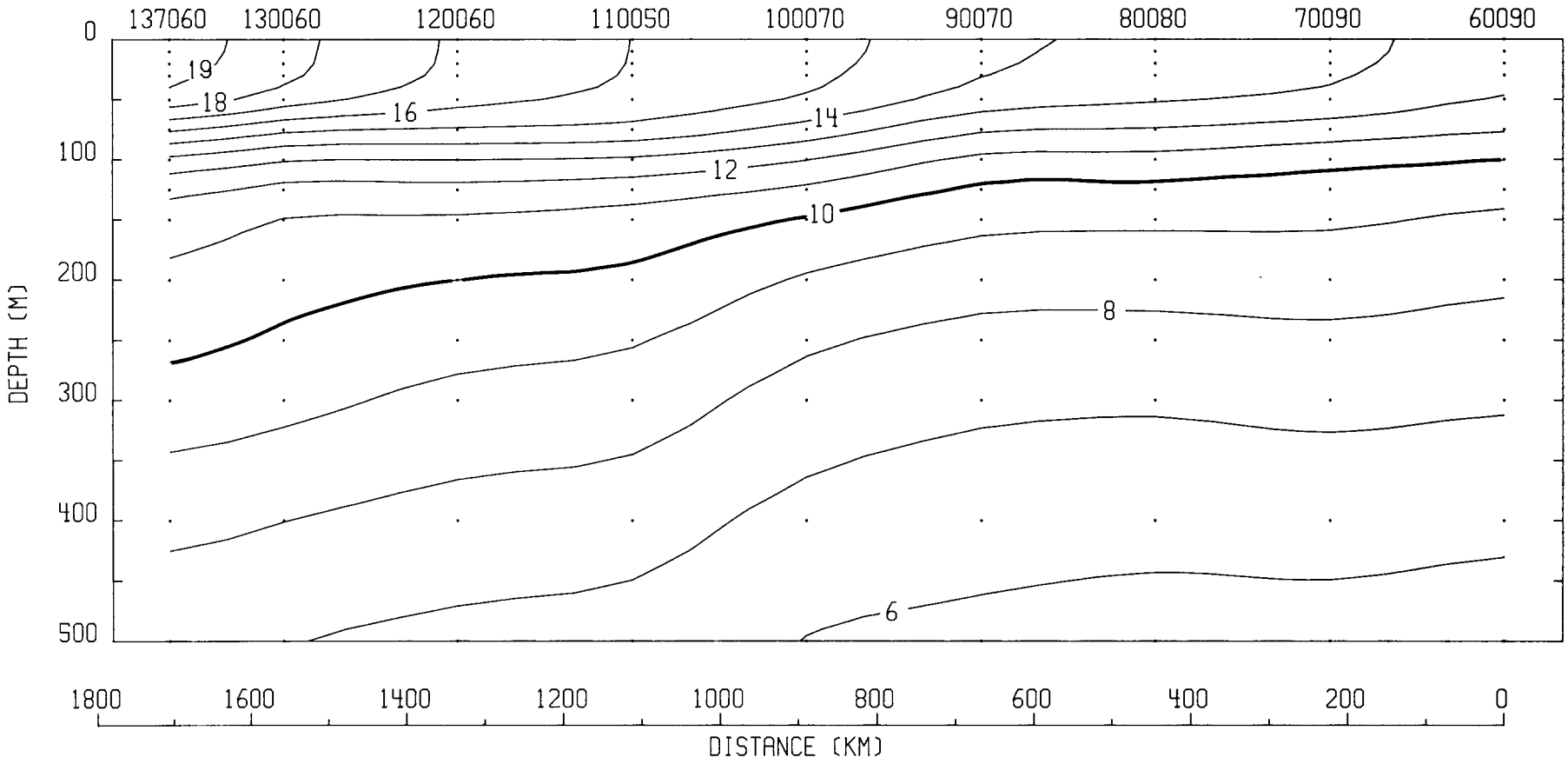


JANUARY
TEMPERATURE

TEMPERATURE (DEG. C) OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	19.83	18.35	16.78	16.04	15.56	14.27	13.70	13.37	12.41
10	19.82	18.28	16.77	16.03	15.54	14.19	13.68	13.34	12.37
20	19.70	18.27	16.75	16.03	15.46	14.11	13.63	13.24	12.33
30	19.55	18.24	16.71	16.01	15.36	14.03	13.59	13.17	12.21
50	19.08	17.60	16.30	15.85	15.11	13.55	13.16	12.86	11.77
75	16.56	15.09	14.96	15.01	13.78	11.96	12.04	11.55	10.93
100	14.02	12.91	12.92	12.87	12.01	10.51	10.74	10.21	9.78
125	12.54	11.58	11.68	11.45	10.83	9.57	9.78	9.51	9.10
150	11.64	10.93	10.84	10.59	9.82	9.07	9.16	9.09	8.72
200	10.86	10.43	9.97	9.80	8.81	8.27	8.36	8.42	8.05
250	10.32	9.83	9.32	9.10	8.08	7.63	7.70	7.78	7.56
300	9.58	9.33	8.68	8.51	7.53	7.15	7.10	7.21	7.04
400	8.31	8.00	7.60	7.49	6.63	6.37	6.24	6.31	6.12
500	7.21	7.02	6.73	6.60	5.94	5.79	5.63	5.65	5.50

OFFSHORE SECTION



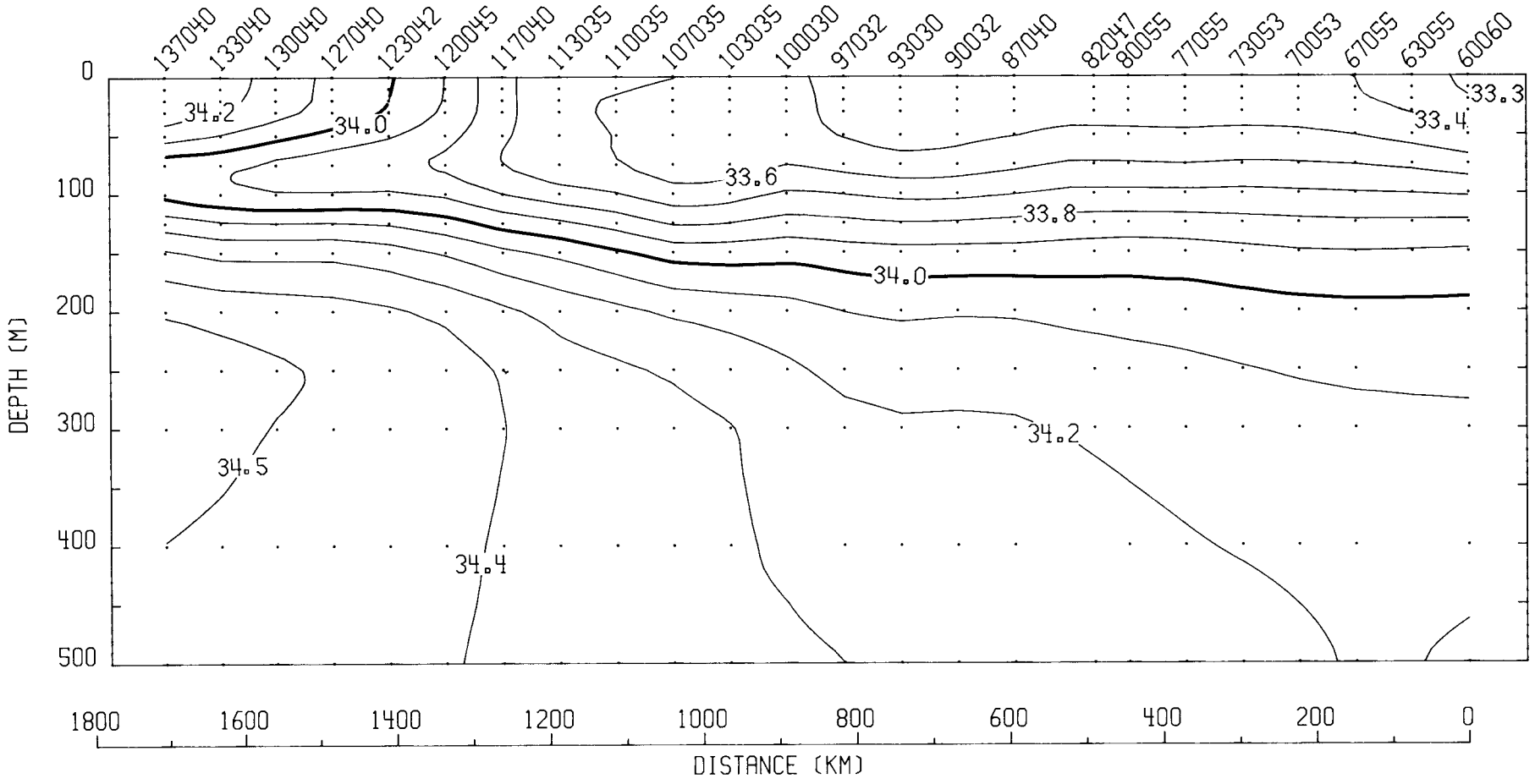
JANUARY
TEMPERATURE

SALINITY (PPT) NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	34.32	34.21	34.17	34.05	34.05	33.90	33.75	33.56	33.67	33.60	33.56	33.50
10	34.31	34.22	34.16	34.04	34.04	33.90	33.75	33.54	33.66	33.57	33.56	33.50
20	34.31	34.21	34.16	34.06	34.03	33.90	33.76	33.55	33.66	33.55	33.56	33.51
30	34.29	34.17	34.15	34.06	34.01	33.90	33.75	33.56	33.65	33.55	33.57	33.51
50	34.18	34.09	34.02	33.99	33.91	33.86	33.72	33.59	33.65	33.54	33.51	33.56
75	33.93	33.87	33.87	33.79	33.83	33.76	33.70	33.58	33.66	33.49	33.52	33.66
100	34.02	33.89	33.90	33.86	33.94	33.89	33.80	33.69	33.77	33.59	33.65	33.75
125	34.21	34.04	34.15	34.10	34.12	34.04	33.96	33.92	33.89	33.75	33.83	33.87
150	34.37	34.20	34.32	34.27	34.26	34.20	34.13	34.07	34.05	33.92	33.97	33.98
200	34.52	34.43	34.47	34.43	34.43	34.39	34.33	34.25	34.23	34.19	34.16	34.14
250	34.58	34.52	34.52	34.49	34.47	34.46	34.40	34.31	34.33	34.28	34.27	34.22
300	34.55	34.50	34.49	34.48	34.48	34.46	34.43	34.33	34.35	34.31	34.31	34.25
400	34.51	34.47	34.47	34.45	34.45	34.44	34.38	34.34	34.36	34.32	34.31	
500	34.46	34.46	34.44	34.43	34.42	34.41	34.38	34.36	34.37	34.31	34.32	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	33.47	33.47	33.50	33.44	33.50	33.43	33.42	33.42	33.44	33.42	33.36	33.23
10	33.48	33.48	33.51	33.43	33.49	33.43	33.44	33.41	33.45	33.42	33.36	33.24
20	33.48	33.47	33.50	33.45	33.49	33.45	33.45	33.42	33.46	33.43	33.38	33.26
30	33.47	33.46	33.50	33.46	33.50	33.46	33.47	33.43	33.49	33.45	33.40	33.30
50	33.48	33.45	33.48	33.48	33.55	33.49	33.52	33.53	33.54	33.52	33.47	33.38
75	33.54	33.51	33.55	33.55	33.66	33.59	33.59	33.60	33.61	33.60	33.60	33.49
100	33.72	33.66	33.66	33.69	33.75	33.71	33.72	33.72	33.72	33.72	33.72	33.67
125	33.83	33.80	33.80	33.83	33.85	33.85	33.83	33.82	33.82	33.82	33.82	33.81
150	33.97	33.90	33.94	33.92	33.95	33.96	33.94	33.92	33.90	33.91	33.91	33.92
200	34.13	34.06	34.10	34.09	34.07	34.07	34.05	34.04	34.01	34.03		34.04
250	34.18	34.14	34.18	34.17	34.15	34.13	34.11	34.10	34.09	34.09		34.08
300	34.24	34.18	34.23	34.21	34.20	34.17	34.17	34.15	34.13	34.13		34.11
400	34.26	34.24	34.27	34.27		34.22	34.20	34.20	34.17	34.18		34.18
500	34.30	34.29	34.29	34.30		34.26	34.25	34.25	34.23	34.16		34.23

NEARSHORE SECTION

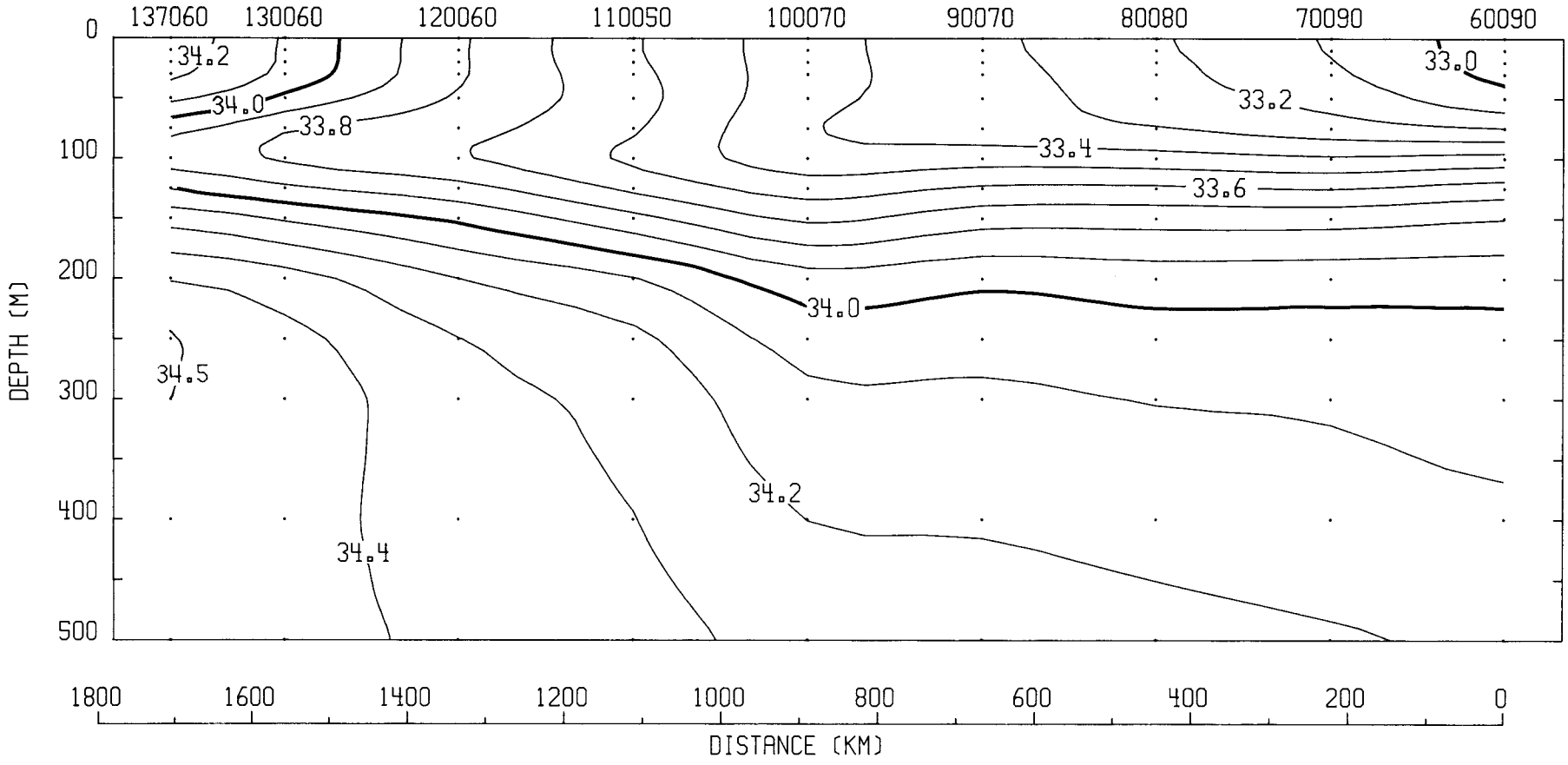


JANUARY
SALINITY

SALINITY (PPT) OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	34.29	34.10	33.80	33.61	33.44	33.33	33.22	33.09	32.94
10	34.29	34.08	33.80	33.60	33.44	33.33	33.22	33.09	32.94
20	34.28	34.09	33.80	33.62	33.44	33.33	33.22	33.11	32.94
30	34.26	34.09	33.80	33.63	33.43	33.35	33.22	33.12	32.95
50	34.19	33.98	33.78	33.64	33.42	33.36	33.24	33.17	33.00
75	34.01	33.78	33.74	33.62	33.39	33.33	33.30	33.24	33.20
100	33.92	33.77	33.71	33.54	33.40	33.47	33.42	33.41	33.48
125	34.05	33.93	33.85	33.65	33.54	33.64	33.62	33.59	33.69
150	34.21	34.11	33.99	33.81	33.66	33.79	33.76	33.77	33.83
200	34.42	34.37	34.21	34.11	33.93	34.00	33.95	33.97	33.98
250	34.52	34.43	34.30	34.22	34.04	34.08	34.04	34.04	34.04
300	34.51	34.47	34.33	34.27	34.12	34.13	34.09	34.08	34.06
400	34.48	34.44	34.35	34.31	34.19	34.20	34.16	34.13	34.11
500	34.46	34.43	34.38	34.33	34.27	34.26	34.24	34.21	34.18

OFFSHORE SECTION

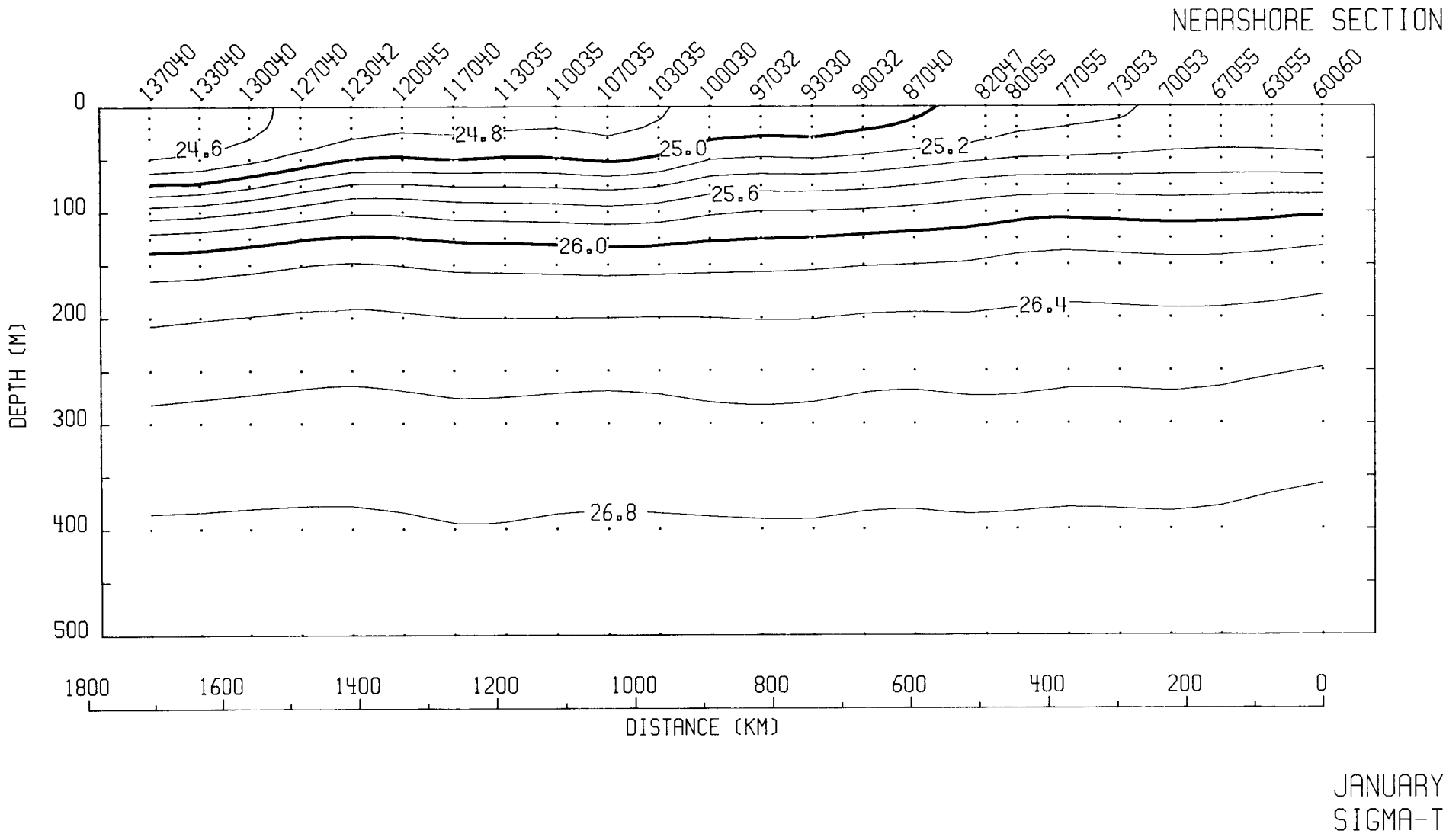


JANUARY
SALINITY

SIGMA-T NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	24.41	24.43	24.56	24.64	24.77	24.75	24.73	24.75	24.78	24.74	24.75	24.89
10	24.41	24.43	24.57	24.63	24.77	24.76	24.74	24.75	24.78	24.74	24.77	24.92
20	24.42	24.44	24.58	24.65	24.78	24.78	24.77	24.78	24.82	24.75	24.78	24.98
30	24.44	24.48	24.60	24.66	24.82	24.81	24.79	24.81	24.85	24.77	24.79	25.06
50	24.55	24.61	24.75	24.80	25.08	24.97	24.96	25.06	25.00	24.90	24.96	25.31
75	25.02	25.06	25.19	25.24	25.56	25.41	25.42	25.39	25.39	25.31	25.36	25.60
100	25.51	25.55	25.63	25.66	25.86	25.76	25.72	25.71	25.72	25.66	25.69	25.80
125	25.87	25.89	25.96	25.98	26.08	26.02	25.98	25.98	25.96	25.92	25.96	25.98
150	26.13	26.12	26.17	26.19	26.24	26.20	26.16	26.17	26.16	26.13	26.17	26.15
200	26.37	26.41	26.40	26.43	26.45	26.43	26.40	26.41	26.41	26.39	26.43	26.39
250	26.52	26.56	26.54	26.57	26.57	26.57	26.54	26.56	26.55	26.56	26.57	26.52
300	26.64	26.66	26.65	26.67	26.67	26.67	26.63	26.66	26.66	26.66	26.67	26.63
400	26.83	26.84	26.83	26.84	26.83	26.84	26.80	26.82	26.83	26.83	26.83	
500	26.97	26.97	26.98	26.98	26.97	26.98	26.96	26.96	26.98	26.95	26.97	

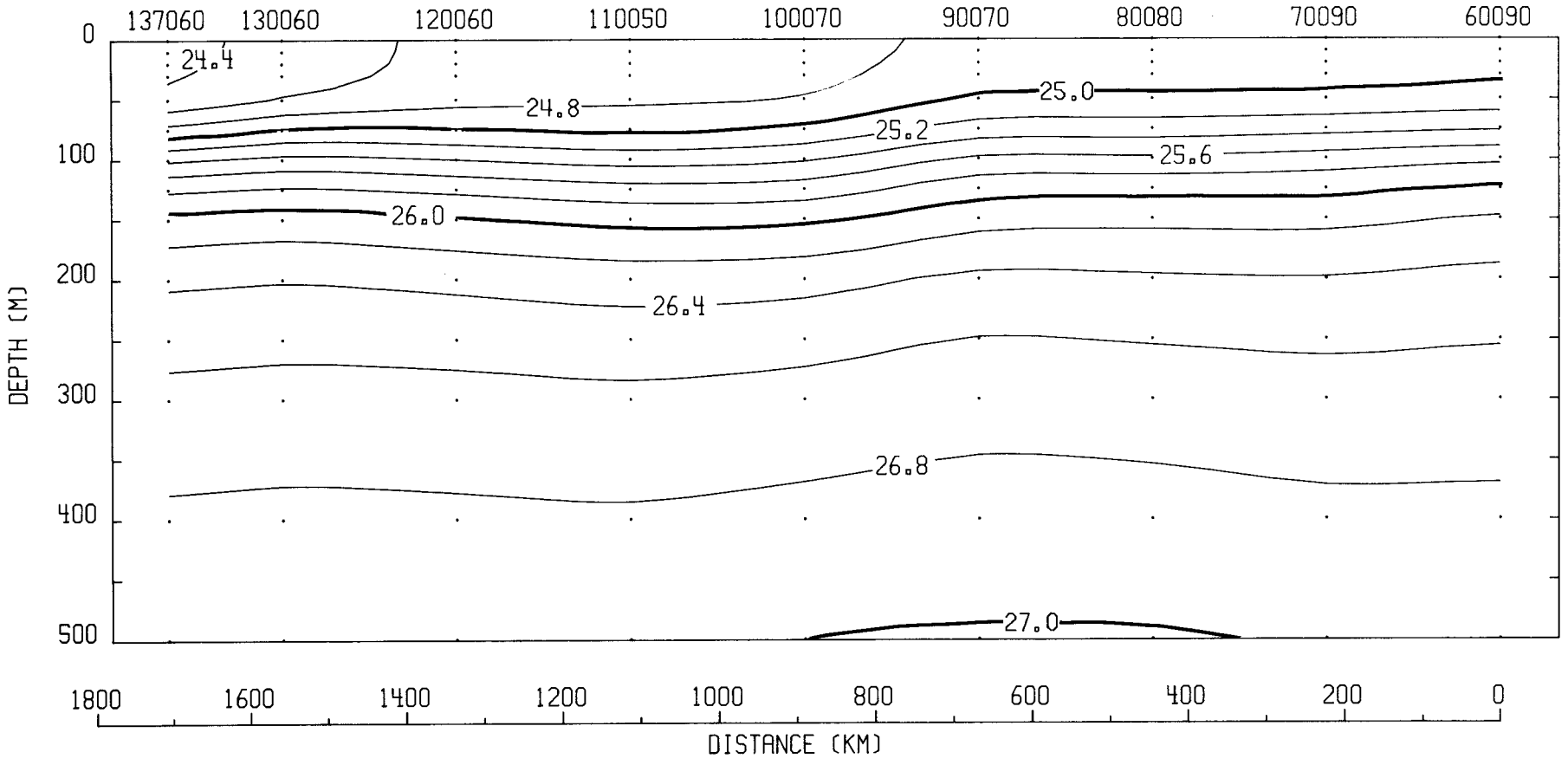
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	24.87	24.88	24.90	24.97	25.02	25.16	25.15	25.16	25.28	25.30	25.29	25.19
10	24.91	24.90	24.94	24.99	25.03	25.17	25.18	25.17	25.30	25.30	25.30	25.21
20	24.94	24.94	24.96	25.03	25.08	25.20	25.21	25.19	25.32	25.31	25.34	25.23
30	24.97	24.98	25.00	25.10	25.14	25.24	25.26	25.23	25.35	25.35	25.37	25.26
50	25.19	25.17	25.21	25.32	25.36	25.42	25.40	25.41	25.47	25.48	25.47	25.40
75	25.52	25.54	25.53	25.62	25.69	25.73	25.71	25.72	25.68	25.72	25.75	25.67
100	25.84	25.80	25.81	25.88	25.88	25.94	25.96	25.95	25.93	25.94	25.96	25.98
125	26.01	25.99	26.03	26.07	26.05	26.14	26.14	26.12	26.10	26.12	26.11	26.18
150	26.19	26.15	26.21	26.21	26.20	26.27	26.27	26.26	26.24	26.25	26.24	26.32
200	26.42	26.37	26.43	26.44	26.40	26.43	26.45	26.44	26.42	26.44		26.50
250	26.54	26.51	26.57	26.57	26.53	26.55	26.57	26.57	26.55	26.56		26.63
300	26.65	26.62	26.68	26.68	26.65	26.65	26.67	26.67	26.66	26.66		26.72
400	26.82	26.80	26.84	26.84		26.83	26.83	26.83	26.83	26.83		26.88
500	26.96	26.95	26.95	26.97		26.96	26.97	26.97	26.96	26.92		27.00


NEARSHORE SECTION
137040
133040
130040
127040
123042
120045
117040
113035
110035
107035
103035
100030
97032
93030
90032
87040
82047
80055
77055
73053
70053
67055
63055
60060
24.6
24.8
25.0
25.2
25.6
26.0
26.4
26.8
DEPTH (M)
0
100
200
300
400
500
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)
JANUARY
SIGMA-T

SIGMA-T OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	24.28	24.49	24.66	24.68	24.68	24.86	24.91	24.88	24.93
10	24.28	24.50	24.65	24.67	24.68	24.88	24.90	24.89	24.94
20	24.31	24.51	24.66	24.68	24.70	24.90	24.92	24.91	24.95
30	24.34	24.51	24.67	24.69	24.72	24.93	24.93	24.93	24.97
50	24.40	24.59	24.74	24.74	24.76	25.03	25.03	25.03	25.10
75	24.82	25.04	25.01	24.89	24.99	25.31	25.28	25.34	25.40
100	25.37	25.50	25.42	25.28	25.35	25.69	25.60	25.69	25.82
125	25.77	25.86	25.78	25.65	25.68	25.98	25.93	25.95	26.10
150	26.06	26.11	26.04	25.93	25.96	26.18	26.15	26.15	26.27
200	26.37	26.40	26.36	26.30	26.34	26.47	26.42	26.42	26.48
250	26.54	26.56	26.54	26.50	26.54	26.63	26.59	26.57	26.61
300	26.66	26.67	26.67	26.64	26.68	26.73	26.71	26.68	26.70
400	26.84	26.85	26.84	26.82	26.86	26.90	26.88	26.85	26.86
500	26.98	26.99	26.99	26.97	27.01	27.02	27.02	26.99	26.99

OFFSHORE SECTION

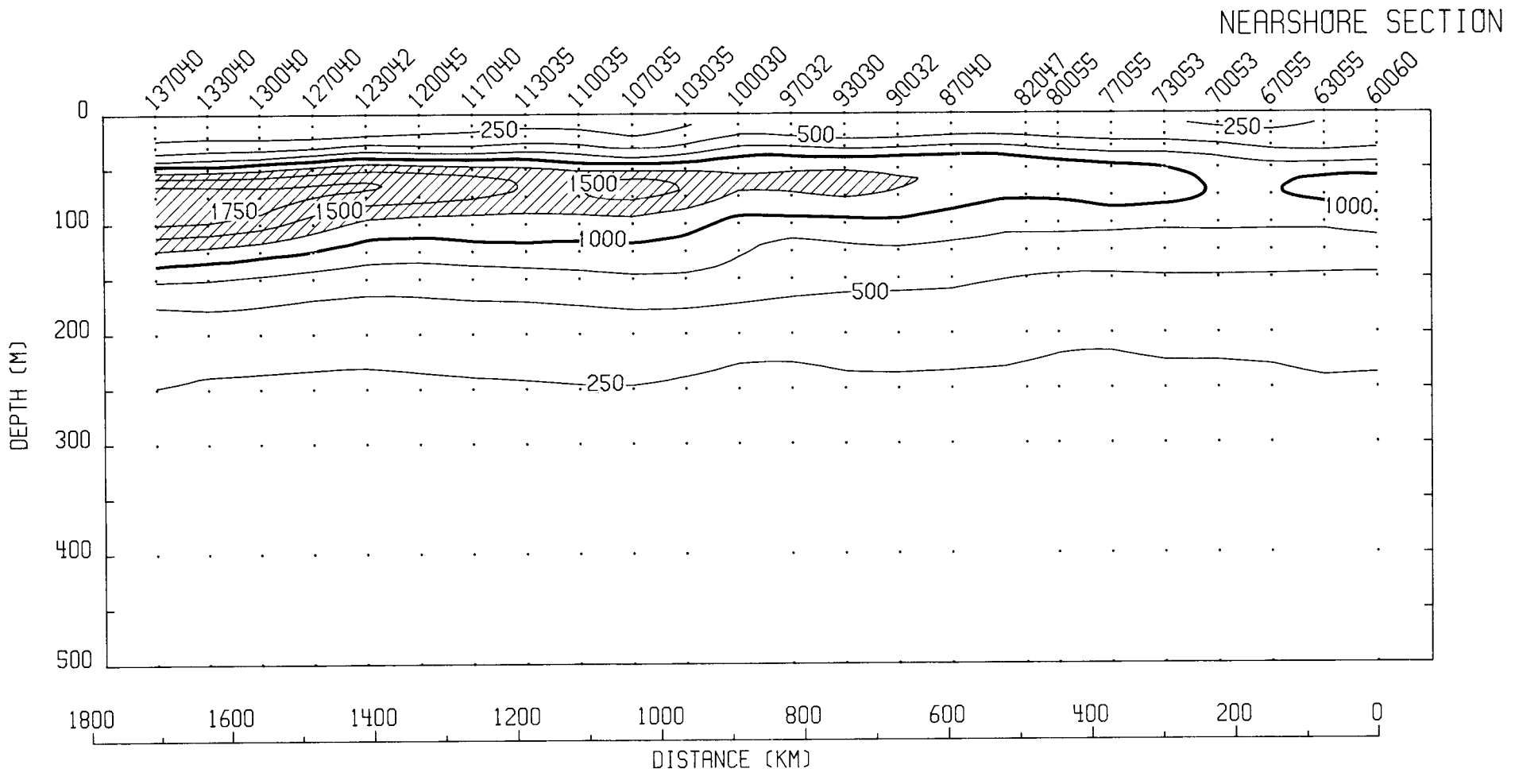


JANUARY
SIGMA-T

STABILITY (10E-8/M) NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0												
10	44	90	122	34	50	128	222	169	196	16	122	434
20	150	268	163	131	243	228	245	280	370	155	116	696
30	257	424	344	295	704	442	413	679	481	366	366	993
50	1189	1208	1285	1272	1726	1338	1419	1354	1186	1177	1276	1272
75	2039	1982	1850	1831	1621	1664	1594	1317	1512	1601	1546	980
100	1744	1693	1562	1484	992	1210	1089	1212	1132	1222	1208	736
125	1238	1130	1069	1049	767	874	875	932	865	919	942	699
150	783	777	663	690	561	625	617	633	669	692	695	605
200	326	395	330	334	301	335	365	354	366	410	375	351
250	257	223	244	218	204	228	214	244	231	251	223	219
300	209	191	203	185	173	183	159	180	185	184	171	
400	165	158	157	155	149	150	165	143	156	143	147	
500												

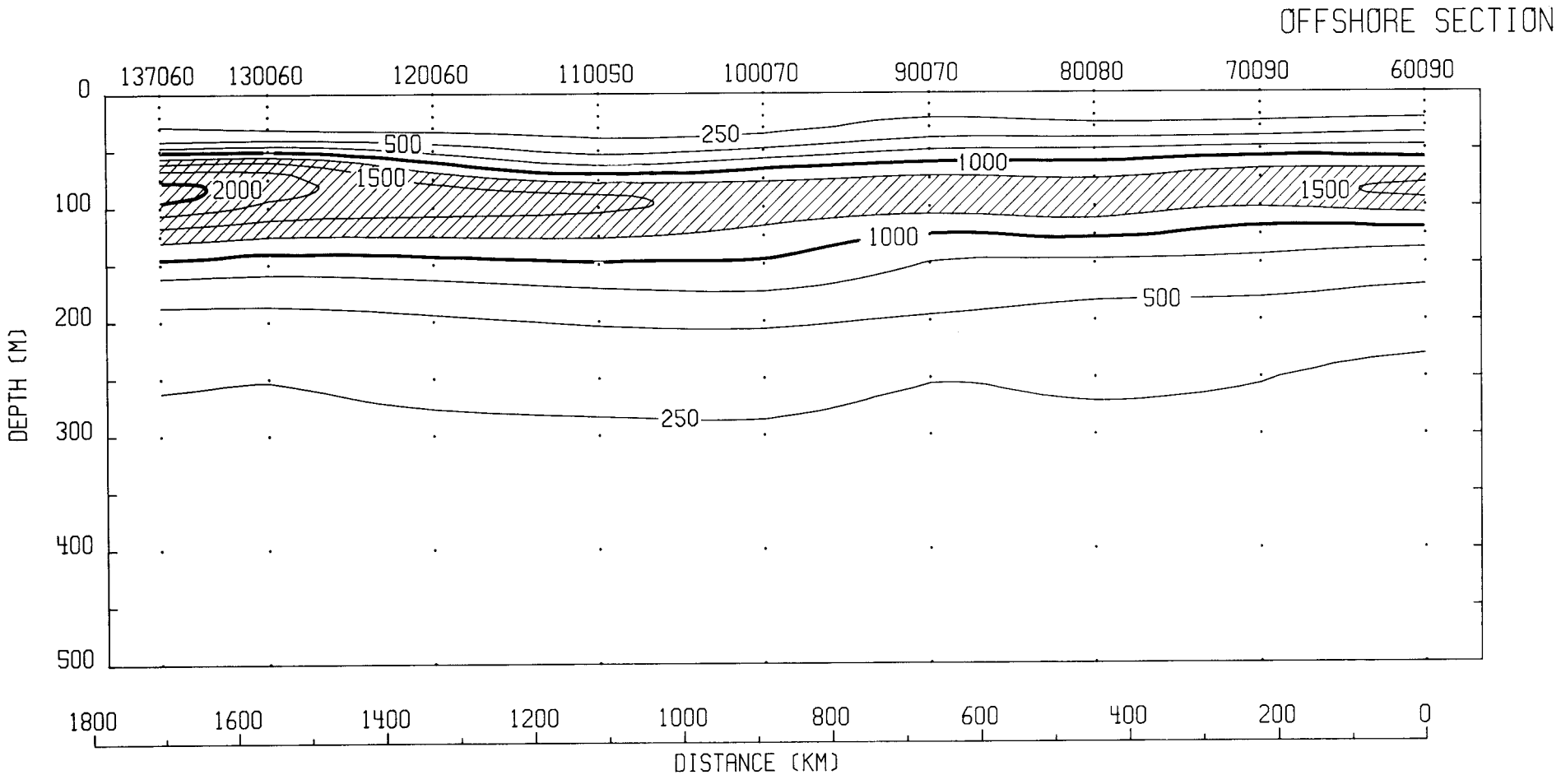
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0												
10	358	272	290	342	295	202	326	186	157	88	236	174
20	287	405	281	528	527	310	400	313	275	230	341	289
30	647	616	646	820	777	585	541	578	431	444	350	461
50	1269	1258	1223	1204	1289	1132	1000	1117	716	848	821	885
75	1341	1325	1232	1151	1054	1081	1174	1118	971	955	1051	1213
100	979	889	999	915	693	812	852	794	856	806	700	1044
125	685	683	810	638	649	657	602	618	597	627	541	676
150	632	553	616	520	516	441	467	492	485	451		472
200	315	342	317	357	312	249	274	287	291	284		280
250	215	243	235	224	242	206	201	219	222	220		218
300	203	198	194	191		198	184	177	195	197		176
400	150	159	135	135		159	151	146	151	126		132
500												



JANUARY
STABILITY

STABILITY (10E-8/M) OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0									
10	125	69	14	27	105	194	73	139	81
20	279	66	61	99	183	227	103	178	163
30	302	230	174	125	163	344	207	291	376
50	834	986	678	334	507	796	756	861	901
75	2087	1935	1418	1127	1223	1374	1189	1378	1510
100	1977	1655	1621	1621	1448	1404	1360	1258	1463
125	1353	1224	1239	1306	1229	981	1104	925	870
150	931	838	877	975	969	706	723	702	554
200	426	393	452	530	549	423	401	384	315
250	268	241	285	312	311	238	273	245	196
300	202	203	212	223	228	188	208	192	166
400	157	158	151	158	156	140	145	150	147
500									

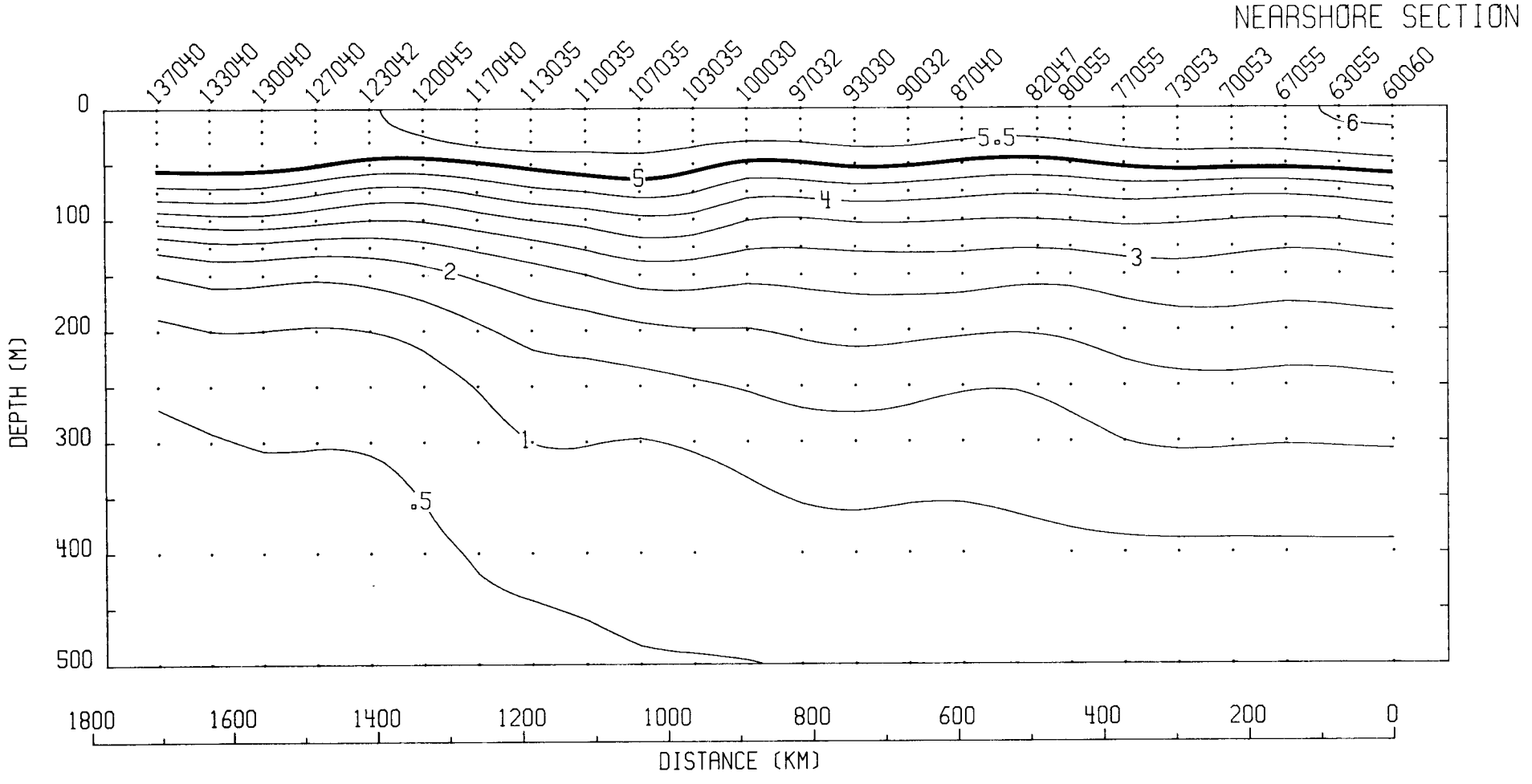


JANUARY
STABILITY

OXYGEN (ML/L) NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	5.25	5.18	5.43	5.47	5.45	5.57	5.86	5.94	5.67	5.58	5.66	5.94
10	5.26	5.29	5.41	5.51	5.40	5.58	5.84	6.01	5.69	5.67	5.67	5.91
20	5.27	5.25	5.41	5.47	5.41	5.53	5.73	5.96	5.67	5.67	5.67	5.71
30	5.27	5.24	5.43	5.42	5.29	5.46	5.67	5.83	5.62	5.67	5.65	5.45
50	5.20	5.23	5.28	5.16	4.59	5.05	4.71	5.48	5.02	5.55	5.33	4.61
75	4.23	4.54	4.27	4.23	3.51	3.90	3.83	4.71	4.18	4.94	4.67	3.85
100	3.02	3.43	3.28	3.26	2.82	3.11	3.11	3.74	3.40	4.10	3.94	3.35
125	1.84	2.59	2.13	2.22	2.04	2.44	2.45	2.92	2.90	3.50	3.28	2.91
150	1.26	1.92	1.48	1.57	1.57	1.82	2.03	2.34	2.34	2.88	2.73	2.48
200	0.70	1.18	0.88	0.98	0.94	1.10	1.38	1.79	1.59	1.95	2.01	1.89
250	0.46	0.75	0.60	0.65	0.66	0.72	0.98	1.40	1.17	1.31	1.46	1.49
300	0.37	0.50	0.52	0.51	0.48	0.59	0.69	1.20	0.94	0.98	1.00	1.24
400	0.28	0.29	0.35	0.36	0.34	0.41	0.56	0.58	0.60	0.70	0.65	
500	0.24	0.21	0.29	0.28	0.29	0.32	0.42	0.37	0.41	0.50	0.47	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	5.65	5.81	5.87	5.83	5.71	5.84	5.93	6.03	5.94	5.94	6.00	6.15
10	5.69	5.83	5.91	5.78	5.76	5.81	5.92	5.98	5.96	5.97	6.01	6.18
20	5.67	5.74	5.86	5.70	5.57	5.68	5.85	5.89	5.86	5.92	5.92	5.96
30	5.58	5.61	5.73	5.44	5.35	5.58	5.66	5.79	5.64	5.83	5.83	5.88
50	5.06	5.22	5.07	4.90	4.81	4.88	5.18	5.27	5.13	5.10	5.28	5.50
75	4.22	4.36	4.17	4.22	3.96	4.02	4.32	4.14	4.05	4.09	4.08	4.52
100	3.37	3.64	3.55	3.50	3.48	3.48	3.69	3.53	3.50	3.49	3.39	3.77
125	3.04	3.05	3.06	3.08	3.01	2.99	3.24	3.20	3.12	3.01	3.00	3.25
150	2.72	2.67	2.74	2.79	2.58	2.58	2.77	2.87	2.77	2.66	2.69	2.89
200	2.09	2.22	2.06	2.10	1.97	2.06	2.23	2.28	2.40	2.24		2.35
250	1.69	1.70	1.61	1.56	1.43	1.72	1.86	1.88	1.95	1.81		1.95
300	1.27	1.36	1.26	1.27	0.96	1.42	1.49	1.59	1.53	1.51		1.55
400	0.80	0.85	0.76	0.74		0.90	0.91	0.93	0.91	0.93		0.93
500	0.51	0.49	0.47	0.59		0.59	0.58	0.60	0.55	0.60		0.59

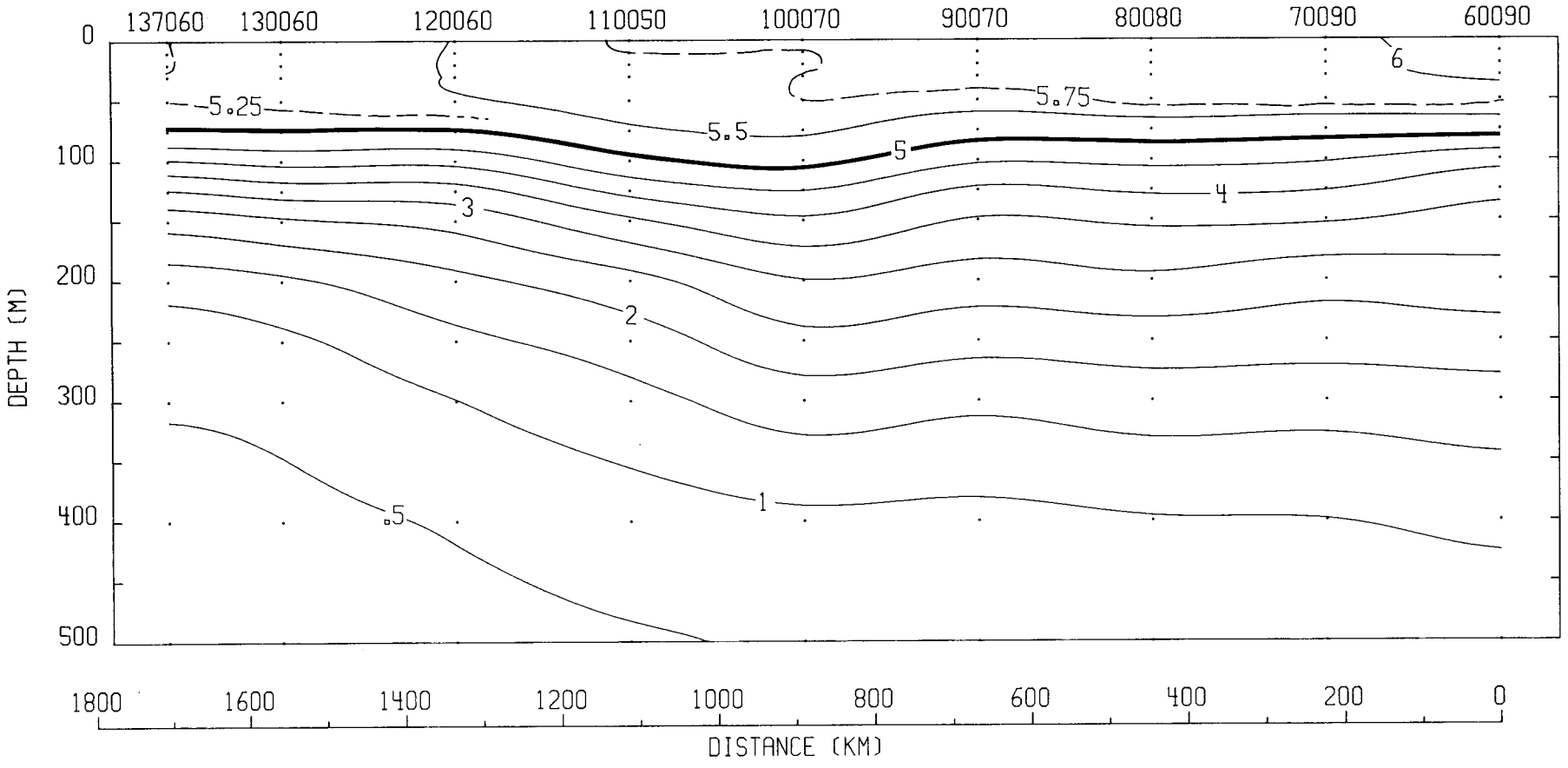


JANUARY
OXYGEN

OXYGEN (ML/L) OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	5.22	5.34	5.49	5.78	5.82	5.85	5.95	5.97	6.12
10	5.23	5.40	5.51	5.75	5.71	5.87	5.92	5.94	6.04
20	5.24	5.45	5.50	5.73	5.73	5.87	5.87	5.96	6.10
30	5.26	5.45	5.49	5.72	5.76	5.85	5.88	5.95	6.06
50	5.25	5.42	5.49	5.68	5.76	5.67	5.81	5.79	5.88
75	5.06	5.09	4.99	5.51	5.65	5.16	5.36	5.23	5.23
100	3.88	4.19	4.04	4.97	5.26	4.50	4.64	4.57	4.10
125	2.86	3.24	3.17	4.19	4.60	3.80	4.10	4.04	3.58
150	2.12	2.40	2.60	3.41	4.02	3.38	3.60	3.58	3.28
200	1.18	1.37	1.86	2.27	3.06	2.71	2.97	2.62	2.85
250	0.61	0.87	1.38	1.71	2.45	2.14	2.27	2.21	2.29
300	0.52	0.58	0.99	1.33	1.80	1.56	1.76	1.67	1.81
400	0.33	0.37	0.54	0.73	0.91	0.84	0.98	0.97	1.13
500	0.26	0.28	0.34	0.46	0.53	0.52	0.57	0.57	0.67

OFFSHORE SECTION



JANUARY
OXYGEN

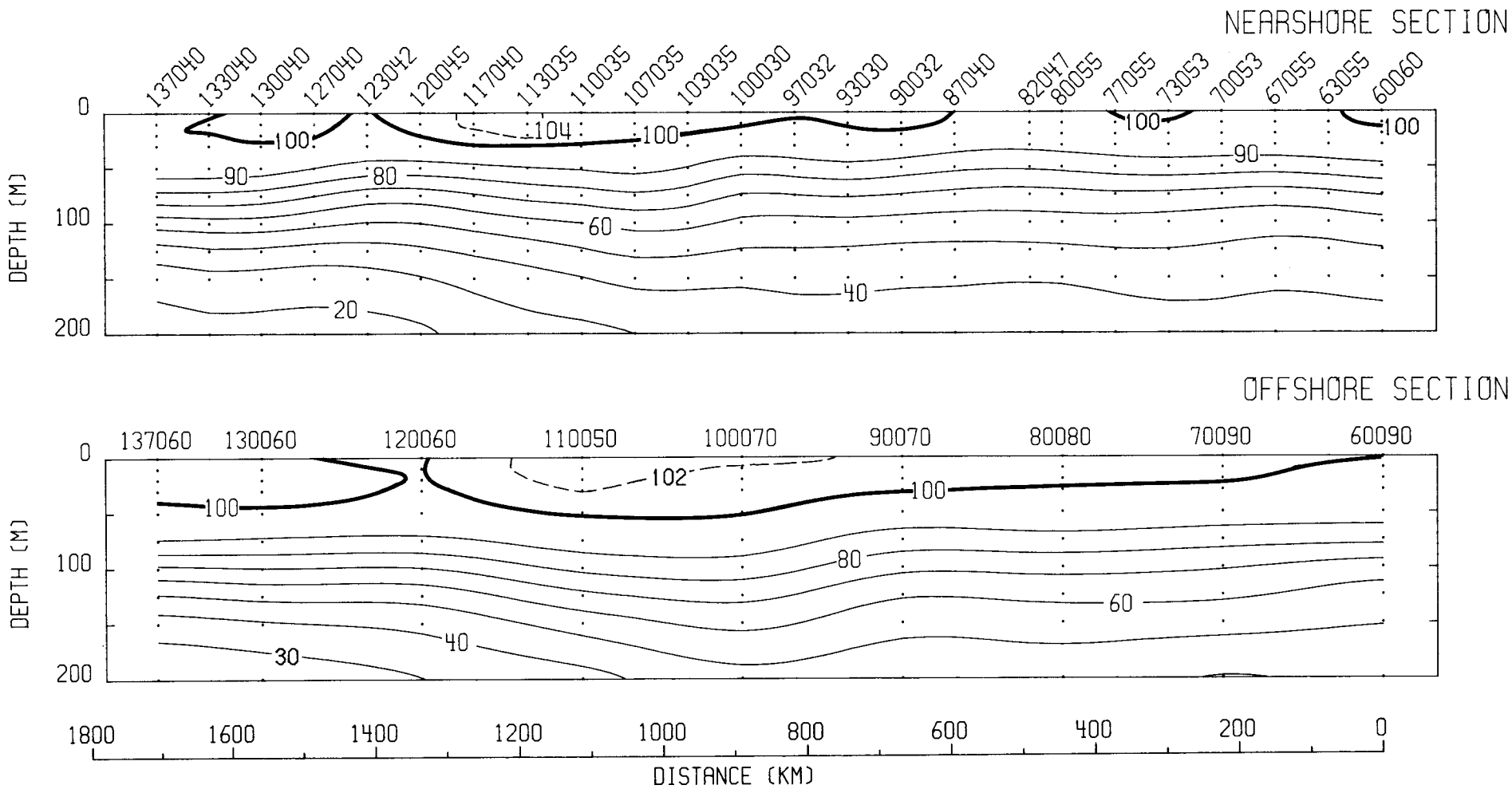
PERCENT OXYGEN SATURATION NEARSHORE LINE JANUARY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	100.0	98.2	101.3	100.8	99.2	100.8	105.8	104.6	100.7	99.8	100.3	103.1
10	99.9	100.3	100.7	101.5	98.1	101.0	105.2	105.6	101.1	100.8	100.4	102.3
20	100.1	99.3	100.8	100.8	98.1	99.8	103.1	104.6	100.3	100.7	100.2	98.2
30	99.9	98.6	100.9	99.9	95.6	98.3	102.0	102.4	98.9	100.6	99.8	93.2
50	97.1	96.6	96.1	93.6	81.1	89.6	83.0	94.5	87.3	97.1	93.0	77.1
75	75.6	80.0	74.5	72.7	58.7	65.9	64.5	78.3	69.8	82.7	77.7	62.9
100	51.6	57.4	54.7	54.1	45.9	51.1	51.0	60.3	55.4	66.3	63.6	55.0
125	30.8	42.2	35.0	36.1	33.0	39.3	39.5	46.5	46.5	55.4	52.0	47.2
150	20.7	30.9	24.0	25.4	25.2	29.2	32.5	37.0	37.2	45.2	42.8	39.7
200	11.4	18.8	14.2	15.7	14.9	17.4	21.8	27.9	25.0	30.4	31.1	29.7
250	7.4	11.9	9.5	10.3	10.3	11.4	15.3	21.6	18.2	20.2	22.5	23.2
300	5.8	7.8	8.1	8.0	7.5	9.2	10.7	18.3	14.3	15.0	15.2	19.3
400	4.3	4.4	5.4	5.4	5.2	6.2	8.4	8.7	9.0	10.4	9.7	
500	3.6	3.1	4.2	4.1	4.3	4.7	6.3	5.4	6.0	7.3	6.8	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	98.4	100.8	101.4	100.0	98.6	98.9	100.2	101.7	98.3	99.0	99.3	100.8
10	98.4	101.1	102.0	99.2	99.2	98.1	100.4	100.7	98.8	99.9	99.4	101.7
20	98.3	99.0	101.4	97.8	95.4	96.1	98.5	98.9	97.3	98.8	97.7	100.0
30	97.5	96.9	99.1	92.8	91.2	94.5	94.8	96.9	94.1	97.0	96.1	98.2
50	88.2	88.8	85.8	81.5	80.7	82.1	85.4	87.5	86.0	83.0	86.6	90.0
75	71.5	71.4	68.1	67.6	64.6	65.7	69.1	66.5	66.5	63.4	65.5	72.3
100	57.2	58.0	56.6	55.3	55.9	56.6	57.8	55.6	55.9	53.1	53.4	59.1
125	50.8	48.3	47.5	47.6	47.6	47.6	50.4	49.9	48.9	46.0	46.9	50.3
150	45.1	42.0	41.7	42.6	40.3	40.4	42.9	44.3	43.1	40.8	41.7	44.4
200	34.3	34.0	31.3	31.3	30.4	32.7	34.2	34.8	37.2	33.9		35.7
250	26.9	26.5	24.5	22.8	21.8	26.9	28.3	28.4	29.7	27.2		29.2
300	19.5	21.1	19.0	17.4	14.5	21.7	22.3	23.8	22.9	22.5		23.1
400	12.0	12.8	11.2	10.4		13.4	13.4	13.7	13.4	13.6		13.4
500	7.2	7.2	6.8	6.7		8.5	8.4	8.6	7.9	8.6		8.3

PERCENT OXYGEN SATURATION OFFSHORE LINE JANUARY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	100.3	100.0	99.4	103.2	103.3	100.8	101.6	100.9	100.5
10	100.4	100.8	99.8	102.6	101.3	101.1	100.7	100.1	99.0
20	100.4	101.7	99.6	102.2	101.3	101.0	99.8	100.3	99.9
30	100.4	101.7	99.4	102.0	101.5	100.5	100.3	100.1	99.1
50	99.2	100.1	98.7	101.0	100.9	95.9	98.5	96.7	95.4
75	91.8	89.4	87.6	96.6	97.2	84.4	87.8	84.1	83.3
100	66.3	70.0	67.8	83.5	87.4	71.1	73.5	71.0	64.0
125	47.3	52.6	51.7	68.0	74.6	58.9	63.1	62.2	54.9
150	34.4	38.4	41.5	54.2	64.2	52.2	54.4	54.3	49.9
200	18.8	21.6	29.1	35.5	47.8	41.2	44.7	37.6	42.7
250	9.7	13.6	21.4	26.3	37.4	32.1	33.8	31.9	33.9
300	8.2	9.0	15.1	20.1	27.1	23.1	26.0	23.7	26.5
400	5.0	5.6	8.0	10.9	13.5	12.3	14.1	13.8	16.2
500	3.8	4.1	5.0	6.7	7.6	7.5	8.1	8.2	9.5

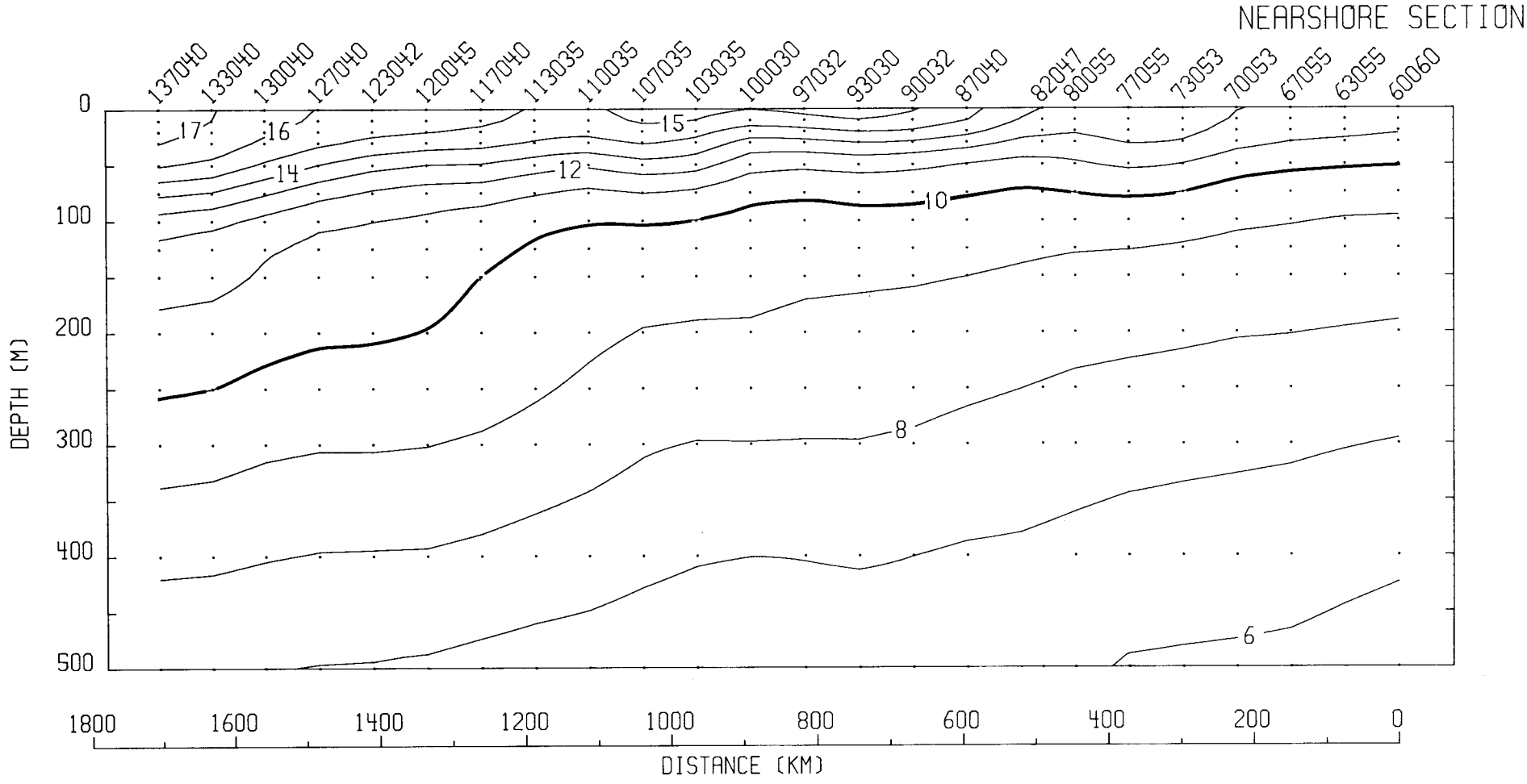


JANUARY
PERCENT OXYGEN SATURATION

TEMPERATURE (DEG. C) NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	17.70	17.09	16.44	16.02	15.60	15.50	15.75	14.76	14.57	15.57	15.75	14.44
10	17.62	17.06	16.35	15.87	15.47	15.38	15.37	14.68	14.47	15.36	15.58	13.87
20	17.49	16.95	16.04	15.55	15.30	15.07	15.05	14.39	13.92	14.89	15.09	12.26
30	17.24	16.75	15.74	15.27	14.82	14.29	14.65	13.97	13.34	14.35	14.51	11.38
50	16.18	16.11	14.73	13.94	13.35	12.52	13.33	12.35	11.61	12.75	13.17	10.43
75	14.05	14.34	12.84	12.18	11.89	11.14	11.89	10.85	10.50	11.05	10.97	9.82
100	12.63	12.31	11.64	10.97	11.08	10.79	10.56	10.04	10.01	10.01	10.06	9.65
125	11.81	11.49	11.02	10.68	10.60	10.60	10.24	9.84	9.67	9.68	9.54	9.55
150	11.29	11.60	10.67	10.68	10.37	10.47	9.89	9.64	9.49	9.34	9.23	9.42
200	10.66	10.78	10.16	10.15	10.07	10.05	9.76	9.43	9.18	8.96	8.77	9.15
250	10.07	10.14	9.65	9.62	9.69	9.60	9.49	9.03	8.90	8.51	8.24	8.76
300	9.45	9.52	9.05	9.07	9.10	9.04	8.92	8.61	8.47	8.07	7.83	8.23
400	8.22	8.27	7.97	7.99	7.88	8.01	7.79	7.56	7.50	7.19	7.05	
500	7.04	7.12	6.94	6.96	6.91	6.93	6.70	6.55	6.61	6.39	6.28	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	15.71	15.64	15.27	14.65	13.17	12.46	12.80	13.49	11.53	12.00	11.88	11.32
10	15.19	15.16	14.99	14.51	12.66	12.29	12.50	13.34	11.34	11.77	11.76	11.18
20	14.15	13.99	13.97	13.79	11.98	12.05	12.36	13.13	11.08	11.50	11.32	11.03
30	13.14	12.98	12.80	12.84	11.22	11.81	12.06	12.74	10.76	11.28	10.89	10.79
50	11.34	11.41	11.07	11.07	10.18	11.06	11.08	11.61	9.89	10.56	9.88	10.07
75	10.16	10.31	10.20	10.08	9.70	9.98	10.21	10.16	9.34	9.55	9.28	9.47
100	9.60	9.75	9.68	9.56	9.39	9.37	9.51	9.38	8.95	9.18	8.85	8.93
125	9.31	9.43	9.34	9.25	9.12	9.02	9.03	8.96	8.73	8.84	8.63	8.63
150	9.00	9.21	9.05	9.01	8.93	8.74	8.71	8.67	8.47	8.58	8.43	8.36
200	8.55	8.88	8.66	8.53	8.52	8.24	8.26	8.16	7.95	8.06		7.86
250	8.19	8.49	8.26	8.13	8.06	7.78	7.79	7.70	7.53	7.59		7.38
300	7.78	8.11	7.89	7.66	7.66	7.37	7.42	7.27	7.16	7.16		6.88
400	6.96	7.21	6.98	6.82		6.68	6.58	6.47	6.43	6.37		6.06
500	6.27	6.42	6.34	6.19		6.00	5.86	5.88	5.81	5.85		5.53

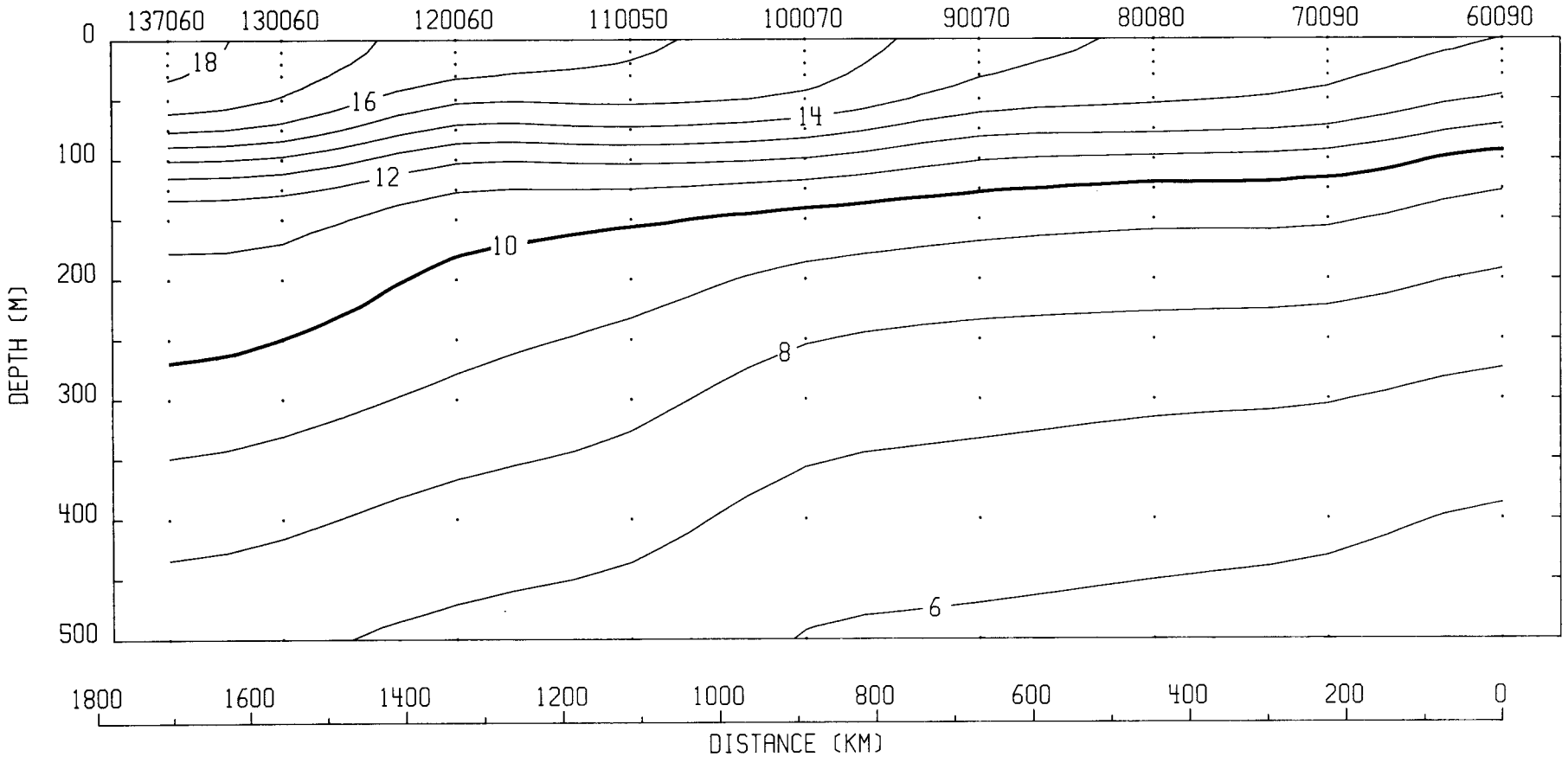


APRIL
TEMPERATURE

TEMPERATURE (DEG. C) OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	18.46	17.52	16.51	16.07	15.60	14.36	13.78	13.36	12.63
10	18.43	17.52	16.49	16.06	15.43	14.32	13.68	13.29	12.55
20	18.35	17.48	16.31	15.97	15.37	14.14	13.59	13.23	12.32
30	18.26	17.37	16.09	15.86	15.29	13.97	13.48	13.13	12.13
50	17.74	17.09	15.00	15.35	14.89	13.39	13.18	12.76	11.67
75	16.34	15.88	13.55	13.97	13.50	12.09	12.35	11.88	10.46
100	14.05	13.92	11.90	12.27	12.02	10.90	10.89	10.58	9.45
125	12.33	12.20	10.90	11.04	10.62	10.01	9.78	9.69	8.89
150	11.36	11.36	10.31	10.16	9.67	9.30	9.15	9.09	8.43
200	10.73	10.67	9.70	9.48	8.70	8.47	8.34	8.30	7.81
250	10.30	10.03	9.26	8.87	8.00	7.78	7.71	7.62	7.19
300	9.63	9.39	8.77	8.32	7.44	7.27	7.12	7.03	6.65
400	8.42	8.19	7.58	7.37	6.59	6.44	6.29	6.19	5.85
500	7.29	7.12	6.74	6.52	5.91	5.82	5.71	5.59	5.30

OFFSHORE SECTION

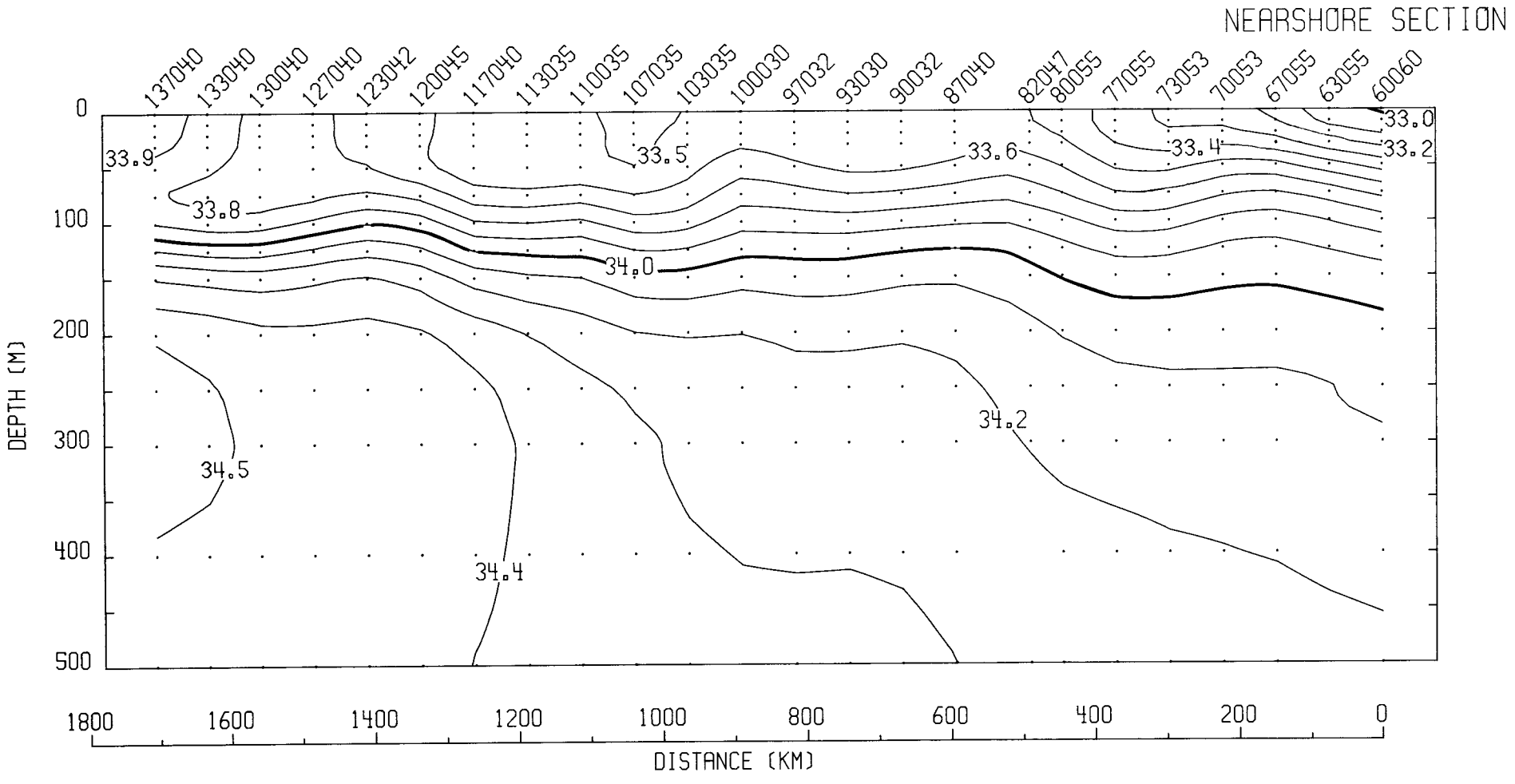


APRIL
TEMPERATURE

SALINITY (PPT) NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	34.00	33.88	33.75	33.70	33.69	33.64	33.51	33.51	33.53	33.44	33.50	33.57
10	33.99	33.85	33.74	33.71	33.69	33.64	33.51	33.51	33.54	33.46	33.50	33.56
20	33.98	33.87	33.73	33.70	33.69	33.64	33.51	33.52	33.54	33.46	33.50	33.60
30	33.96	33.86	33.74	33.72	33.68	33.62	33.50	33.51	33.54	33.45	33.50	33.66
50	33.87	33.85	33.70	33.74	33.71	33.64	33.49	33.50	33.55	33.45	33.51	33.78
75	33.79	33.78	33.70	33.77	33.81	33.86	33.55	33.62	33.71	33.56	33.56	33.89
100	33.94	33.78	33.84	33.93	34.00	34.07	33.69	33.80	33.90	33.69	33.68	33.99
125	34.15	34.04	34.04	34.14	34.17	34.22	33.89	33.99	34.02	33.87	33.84	34.09
150	34.31	34.30	34.21	34.32	34.30	34.34	34.09	34.14	34.13	34.03	33.98	34.16
200	34.49	34.49	34.39	34.43	34.43	34.44	34.34	34.31	34.24	34.21	34.15	34.26
250	34.53	34.53	34.44	34.48	34.50	34.48	34.43	34.35	34.33	34.29	34.23	34.30
300	34.52	34.55	34.46	34.48	34.49	34.48	34.45	34.37	34.36	34.32	34.26	34.30
400	34.49	34.50	34.45	34.46	34.44	34.46	34.42	34.38	34.37	34.34	34.31	
500	34.46	34.46	34.44	34.45	34.44	34.44	34.39	34.38	34.37	34.35	34.34	

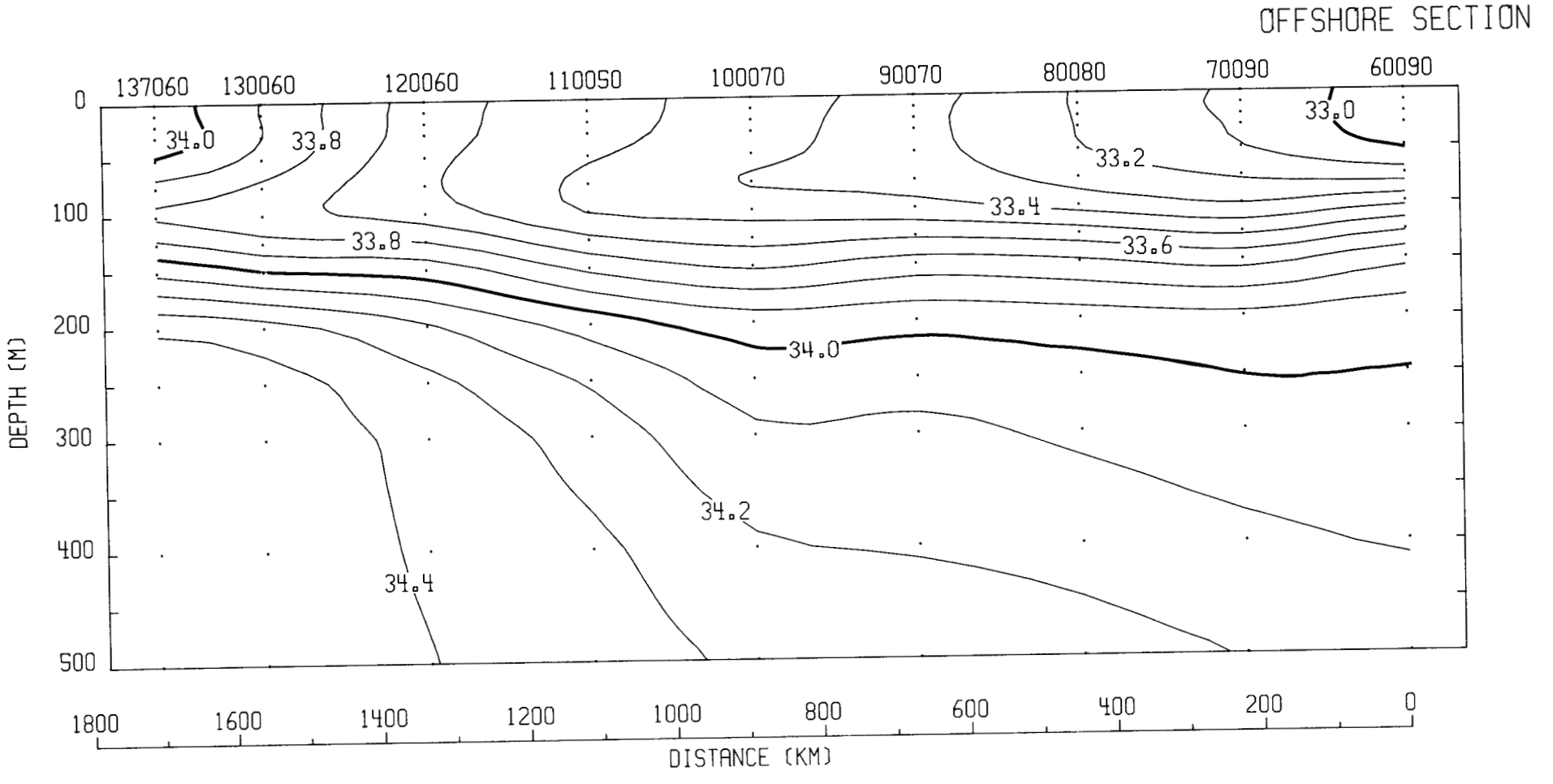
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	33.51	33.48	33.53	33.46	33.58	33.42	33.37	33.15	33.32	33.16	32.88	33.01
10	33.50	33.48	33.52	33.46	33.59	33.43	33.36	33.15	33.36	33.18	32.96	33.02
20	33.52	33.50	33.52	33.49	33.63	33.47	33.39	33.17	33.40	33.26	33.07	33.09
30	33.52	33.50	33.53	33.50	33.67	33.48	33.40	33.22	33.46	33.32	33.16	33.16
50	33.56	33.56	33.59	33.55	33.76	33.57	33.47	33.36	33.61	33.51	33.43	33.31
75	33.68	33.70	33.73	33.70	33.84	33.67	33.59	33.51	33.74	33.69	33.68	33.52
100	33.77	33.87	33.87	33.86	33.95	33.82	33.73	33.68	33.88	33.83	33.82	33.69
125	33.90	34.00	33.98	34.01	34.02	33.91	33.87	33.81	33.96	33.91	33.91	33.83
150	33.98	34.09	34.06	34.11	34.07	33.98	33.96	33.92	34.01	33.97	33.97	33.92
200	34.13	34.21	34.18	34.18	34.17	34.07	34.07	34.05	34.06	34.06		34.02
250	34.20	34.25	34.23	34.23	34.18	34.13	34.13	34.10	34.12	34.11		34.07
300	34.24	34.28	34.27	34.26	34.20	34.17	34.17	34.15	34.16	34.14		34.10
400	34.29	34.31	34.28	34.29		34.24	34.24	34.20	34.20	34.20		34.16
500	34.33	34.33	34.31	34.33		34.29	34.25	34.25	34.26	34.26		34.22



APRIL
SALINITY

SALINITY (PPT) OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	34.08	33.90	33.65	33.53	33.49	33.33	33.20	33.07	32.95
10	34.07	33.89	33.63	33.53	33.49	33.33	33.20	33.06	32.96
20	34.09	33.91	33.64	33.53	33.48	33.33	33.22	33.09	32.95
30	34.09	33.91	33.63	33.54	33.47	33.33	33.21	33.10	32.95
50	34.02	33.88	33.61	33.51	33.45	33.34	33.21	33.11	32.98
75	33.87	33.77	33.61	33.47	33.39	33.37	33.26	33.16	33.16
100	33.78	33.72	33.65	33.49	33.49	33.44	33.36	33.28	33.42
125	33.94	33.82	33.82	33.62	33.57	33.61	33.55	33.44	33.63
150	34.10	34.00	33.98	33.78	33.68	33.77	33.72	33.63	33.79
200	34.40	34.36	34.22	34.07	33.95	33.98	33.94	33.92	33.97
250	34.50	34.45	34.33	34.20	34.04	34.07	34.04	34.00	34.00
300	34.51	34.46	34.38	34.26	34.10	34.13	34.08	34.04	34.03
400	34.49	34.46	34.39	34.33	34.21	34.19	34.17	34.13	34.09
500	34.47	34.46	34.40	34.35	34.28	34.27	34.24	34.20	34.16

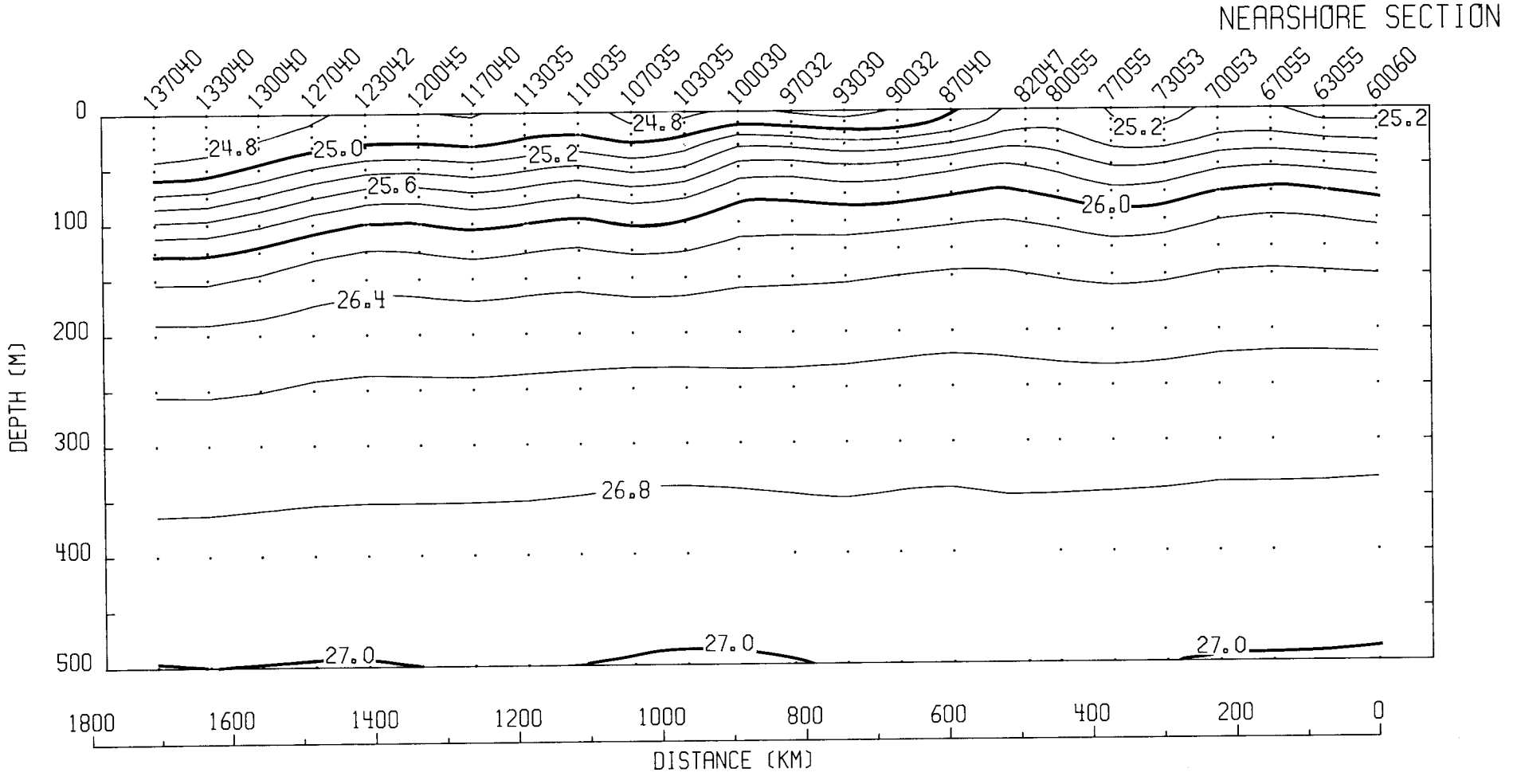


APRIL
SALINITY

SIGMA-T NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	24.58	24.64	24.69	24.75	24.85	24.85	24.68	24.90	24.96	24.67	24.61	24.99
10	24.61	24.64	24.71	24.80	24.87	24.86	24.76	24.91	24.97	24.72	24.70	25.11
20	24.63	24.67	24.78	24.86	24.91	24.93	24.83	24.98	25.09	24.84	24.82	25.47
30	24.68	24.71	24.85	24.94	25.01	25.08	24.90	25.06	25.21	24.95	24.93	25.68
50	24.85	24.85	25.04	25.23	25.33	25.45	25.16	25.37	25.56	25.27	25.19	25.95
75	25.25	25.19	25.43	25.62	25.70	25.88	25.49	25.74	25.88	25.67	25.66	26.14
100	25.66	25.60	25.78	25.96	26.00	26.11	25.86	26.03	26.11	25.95	25.93	26.24
125	25.99	25.96	26.05	26.18	26.22	26.26	26.07	26.22	26.26	26.15	26.15	26.33
150	26.20	26.14	26.24	26.32	26.36	26.37	26.28	26.36	26.37	26.33	26.31	26.41
200	26.46	26.44	26.47	26.50	26.52	26.52	26.50	26.53	26.52	26.52	26.52	26.54
250	26.59	26.58	26.59	26.63	26.63	26.63	26.62	26.63	26.64	26.65	26.65	26.63
300	26.69	26.70	26.71	26.72	26.72	26.72	26.72	26.72	26.73	26.75	26.74	26.71
400	26.86	26.86	26.87	26.87	26.87	26.87	26.87	26.88	26.87	26.90	26.89	
500	27.01	27.00	27.01	27.01	27.01	27.01	27.00	27.01	27.00	27.01	27.02	

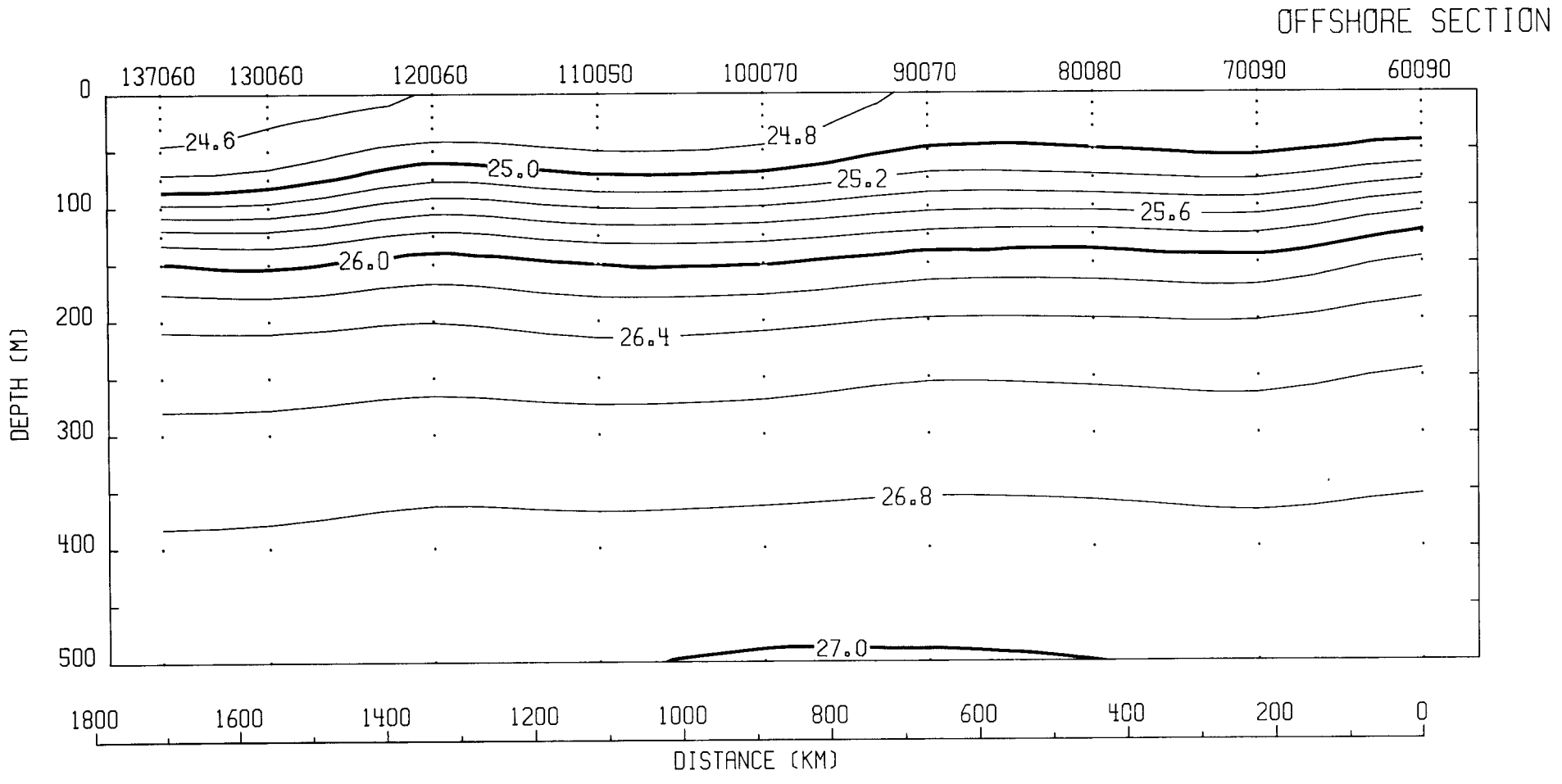
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	24.66	24.67	24.82	24.86	25.22	25.31	25.20	24.88	25.38	25.22	24.98	25.19
10	24.79	24.79	24.85	24.91	25.38	25.33	25.23	24.91	25.45	25.24	25.07	25.22
20	25.03	25.06	25.08	25.09	25.54	25.41	25.29	24.97	25.52	25.34	25.24	25.30
30	25.23	25.27	25.32	25.29	25.72	25.46	25.34	25.08	25.62	25.42	25.38	25.39
50	25.61	25.61	25.69	25.67	25.97	25.67	25.58	25.41	25.90	25.70	25.77	25.63
75	25.91	25.90	25.94	25.95	26.12	25.94	25.83	25.78	26.09	26.02	26.06	25.90
100	26.08	26.13	26.14	26.16	26.25	26.16	26.06	26.04	26.27	26.19	26.24	26.13
125	26.23	26.29	26.28	26.33	26.35	26.29	26.25	26.22	26.37	26.31	26.35	26.28
150	26.35	26.39	26.40	26.43	26.42	26.38	26.37	26.35	26.44	26.40	26.42	26.39
200	26.53	26.54	26.55	26.57	26.56	26.53	26.52	26.53	26.57	26.55		26.55
250	26.64	26.64	26.65	26.67	26.64	26.65	26.64	26.64	26.68	26.66		26.66
300	26.74	26.72	26.73	26.76	26.72	26.74	26.72	26.73	26.76	26.74		26.75
400	26.88	26.87	26.88	26.90		26.89	26.88	26.88	26.89	26.89		26.90
500	27.01	27.00	26.99	27.02		27.01	26.99	27.00	27.02	27.01		27.01



APRIL
SIGMA-T

SIGMA-T OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	24.46	24.55	24.61	24.62	24.70	24.86	24.88	24.82	24.88
10	24.47	24.55	24.60	24.63	24.73	24.85	24.89	24.83	24.91
20	24.50	24.58	24.65	24.65	24.74	24.90	24.92	24.85	24.95
30	24.53	24.60	24.70	24.67	24.76	24.93	24.94	24.88	24.99
50	24.60	24.64	24.91	24.77	24.83	25.04	25.00	24.97	25.10
75	24.82	24.84	25.21	25.02	25.06	25.30	25.21	25.16	25.45
100	25.24	25.23	25.58	25.38	25.42	25.59	25.54	25.49	25.83
125	25.72	25.65	25.89	25.72	25.74	25.88	25.88	25.79	26.08
150	26.03	25.95	26.12	26.00	25.99	26.12	26.11	26.04	26.28
200	26.37	26.35	26.41	26.33	26.37	26.43	26.41	26.40	26.51
250	26.53	26.53	26.57	26.53	26.55	26.60	26.58	26.57	26.63
300	26.65	26.65	26.69	26.67	26.68	26.71	26.70	26.68	26.73
400	26.83	26.84	26.88	26.86	26.87	26.88	26.88	26.86	26.87
500	26.98	27.00	27.01	26.99	27.02	27.02	27.01	26.99	27.00



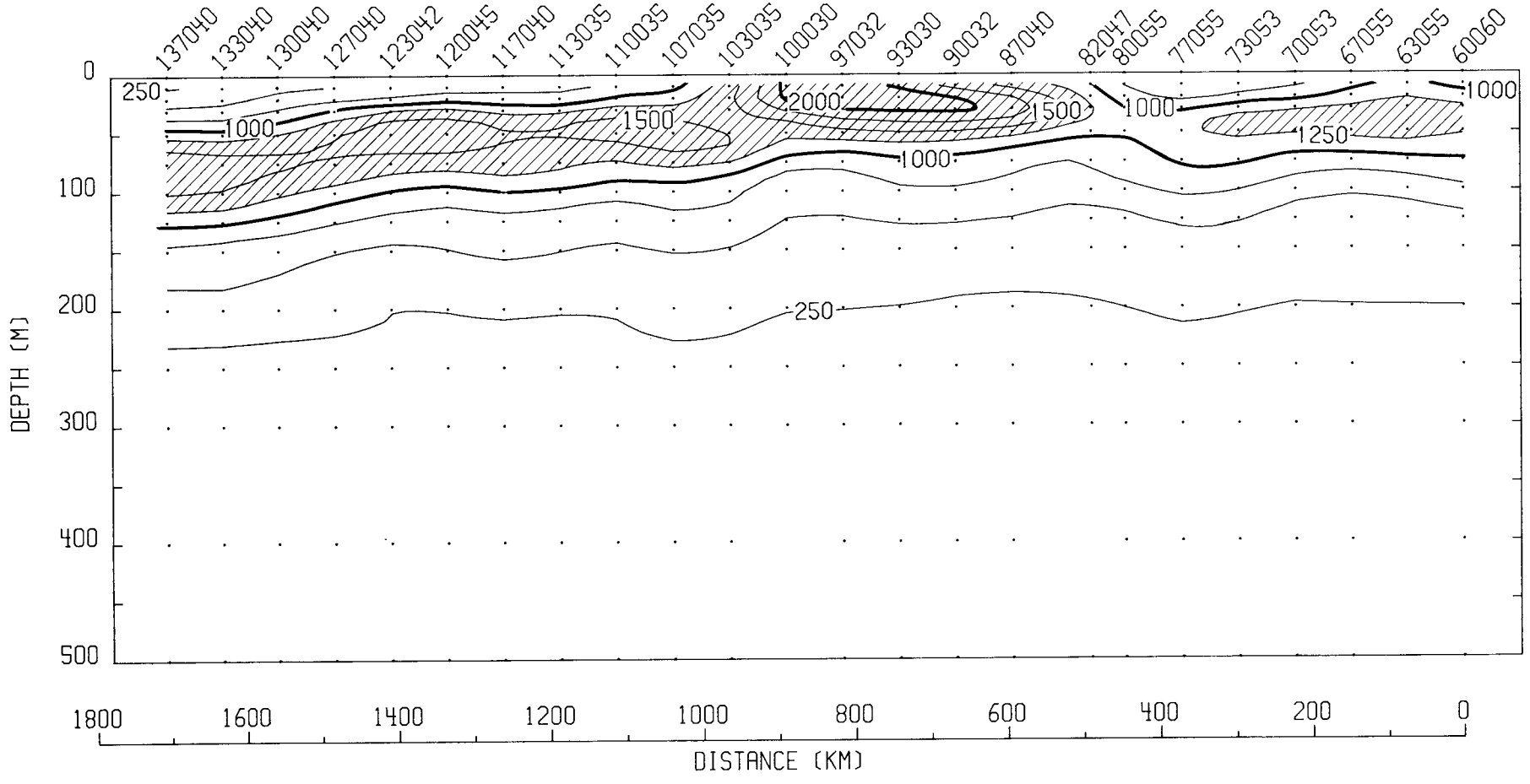
APRIL
SIGMA-T

STABILITY (10E-8/M) NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0												
10	245	185	458	556	314	388	751	384	652	829	1039	2405
20	360	386	691	685	675	1093	725	734	1178	1163	1139	2869
30	588	481	753	1046	1222	1660	974	1131	1424	1324	1146	1843
50	1239	990	1259	1579	1609	1881	1352	1618	1615	1671	1663	1014
75	1698	1569	1542	1490	1366	1333	1427	1339	1100	1371	1541	547
100	1500	1617	1244	1132	1046	700	1159	949	743	934	940	368
125	1071	1064	920	702	715	518	825	641	506	745	752	337
150	713	654	643	475	457	397	698	473	385	580	532	292
200	351	426	309	286	233	237	288	243	243	287	323	207
250	207	232	216	204	195	189	204	168	205	215	215	167
300	181	199	203	156	165	167	183	167	164	173	157	
400	158	142	143	149	143	139	128	152	132	128	135	
500												

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0												
10	1869	1931	1285	1124	1640	488	427	464	724	611	1274	522
20	2205	2398	2352	1915	1656	679	551	835	835	910	1556	848
30	2004	1951	2205	2015	1577	753	823	1328	1199	1048	1698	1042
50	1593	1452	1425	1535	929	1100	1155	1637	1136	1446	1657	1175
75	900	1010	871	942	510	998	962	1284	719	987	897	1008
100	607	766	668	755	466	692	853	858	552	530	546	775
125	531	521	496	550	335	432	601	592	334	415	359	521
150	428	370	392	346	279	350	387	452	274	337		389
200	287	225	237	216	221	259	262	271	228	255		252
250	198	165	175	187	147	204	192	196	192	185		193
300	165	157	160	162		159	153	175	151	159		167
400	132	140	127	128		135	143	129	125	131		129
500												

NEARSHORE SECTION

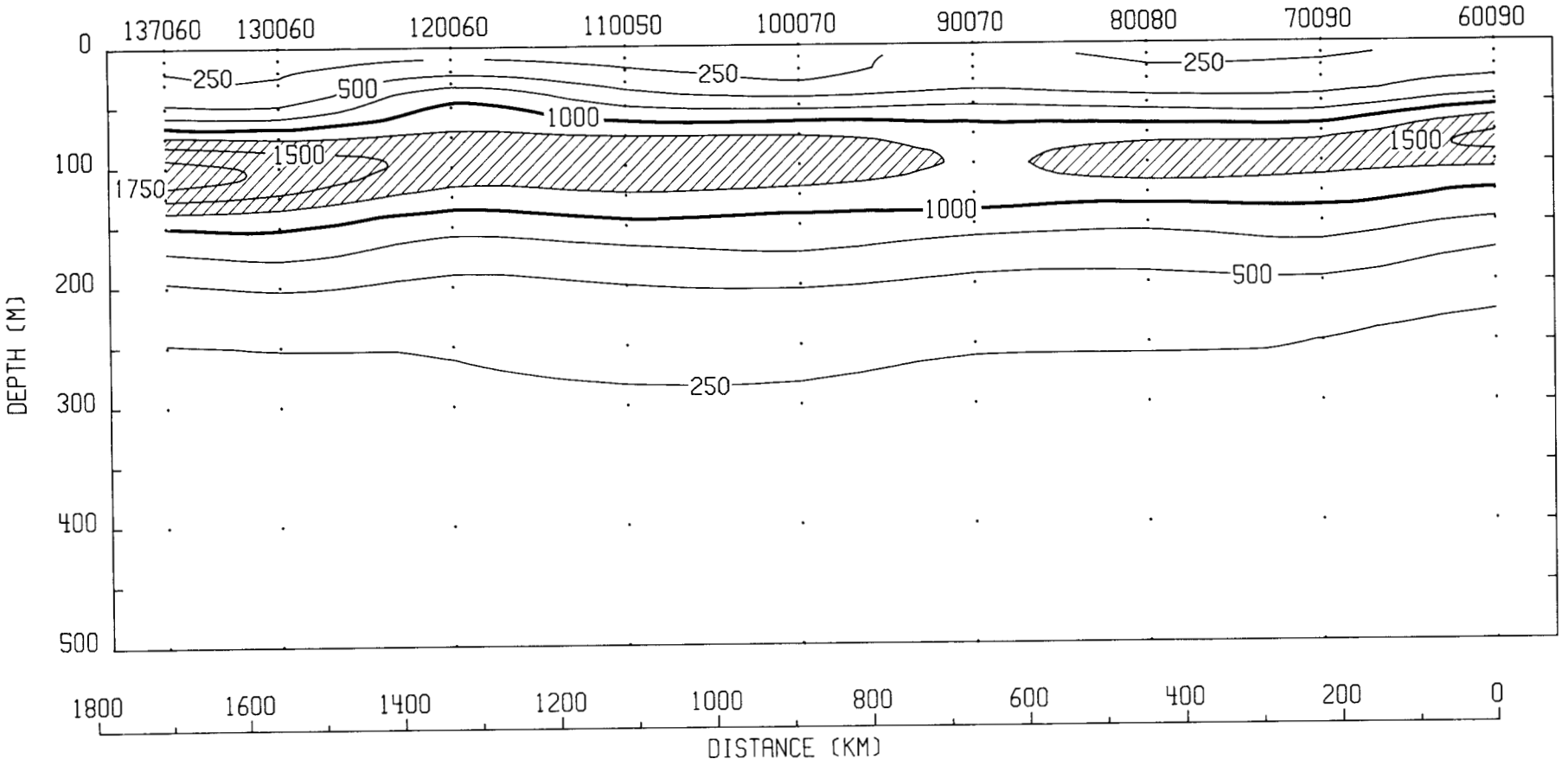


APRIL
STABILITY

STABILITY (10E-8/M) OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0									
10	229	116	181	114	248	158	204	124	379
20	270	252	462	231	136	399	276	254	418
30	250	199	733	319	189	404	241	362	415
50	555	430	1164	719	617	812	528	559	972
75	1307	1195	1345	1263	1224	1113	1114	1059	1533
100	1926	1703	1410	1431	1413	1160	1398	1321	1268
125	1605	1470	1092	1252	1156	1090	1146	1100	893
150	988	1042	782	940	916	841	794	911	671
200	437	547	409	489	526	438	438	498	305
250	241	250	247	313	279	265	259	250	198
300	209	200	213	231	229	193	204	202	171
400	162	173	160	158	163	146	153	149	133
500									

OFFSHORE SECTION

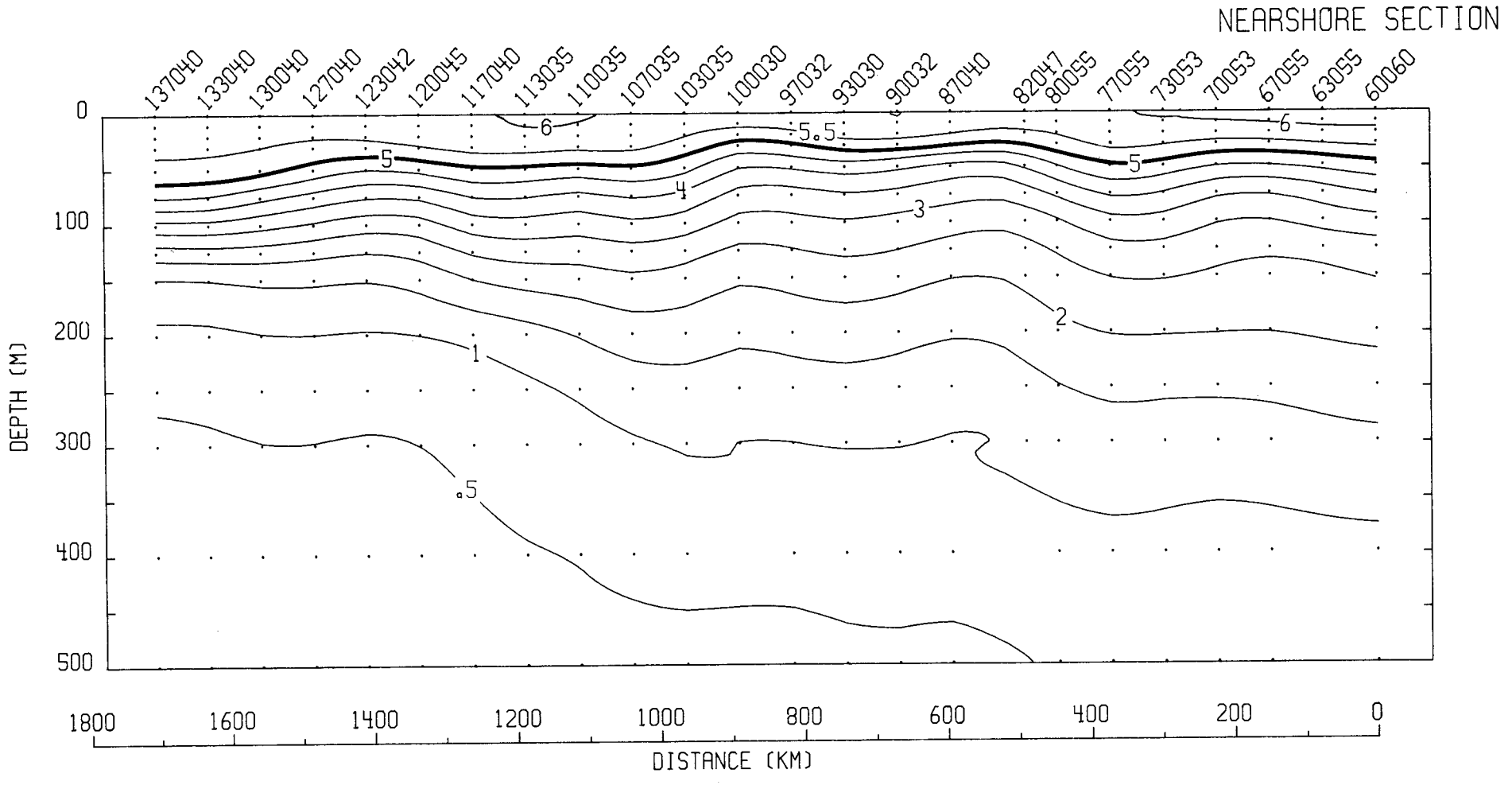


APRIL
STABILITY

OXYGEN (ML/L) NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	5.47	5.54	5.66	5.85	5.70	5.93	5.97	6.05	6.04	5.76	5.81	6.02
10	5.51	5.57	5.68	5.64	5.60	5.87	5.98	6.01	6.00	5.90	5.73	5.66
20	5.57	5.55	5.66	5.46	5.57	5.72	5.92	5.93	5.85	5.87	5.76	4.83
30	5.59	5.55	5.61	5.33	5.35	5.45	5.78	5.76	5.62	5.69	5.63	4.21
50	5.45	5.32	5.38	4.73	4.41	4.45	5.24	4.85	4.69	4.95	5.20	3.26
75	4.48	4.75	3.95	3.76	3.65	3.04	4.48	3.94	3.65	4.09	4.22	2.81
100	3.16	3.55	3.02	2.98	2.71	2.40	3.61	3.35	2.99	3.56	3.52	2.41
125	2.18	2.31	2.28	2.11	1.99	1.89	2.80	2.73	2.63	2.86	2.92	2.01
150	1.48	1.32	1.70	1.49	1.54	1.46	2.18	2.13	2.25	2.43	2.52	1.70
200	0.92	0.77	1.09	0.94	0.98	0.93	1.14	1.23	1.60	1.69	1.95	1.30
250	0.58	0.57	0.73	0.67	0.57	0.62	0.70	0.90	1.08	1.23	1.50	1.09
300	0.40	0.40	0.53	0.49	0.45	0.50	0.56	0.68	0.79	0.94	1.12	0.88
400	0.31	0.27	0.34	0.33	0.36	0.34	0.43	0.48	0.51	0.55	0.63	
500	0.25	0.24	0.27	0.28	0.25	0.27	0.35	0.40	0.44	0.41	0.40	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	5.51	5.89	6.19	5.64	6.11	5.86	5.95	5.84	6.11	6.17	6.36	6.12
10	5.73	5.94	6.29	5.74	5.75	5.74	5.90	6.07	6.14	5.96	6.34	6.05
20	5.43	5.79	5.70	5.76	5.04	5.67	5.89	5.97	5.69	5.72	5.94	5.92
30	5.08	5.52	5.10	5.35	4.37	5.51	5.78	5.60	5.25	5.51	5.52	5.73
50	4.24	4.34	3.93	3.98	3.22	4.79	5.09	5.01	4.16	4.65	4.43	5.07
75	3.39	3.50	3.26	3.39	2.73	3.64	4.28	4.06	3.34	3.49	3.64	4.23
100	3.04	2.98	2.80	2.79	2.38	2.94	3.47	3.50	2.84	2.94	3.23	3.42
125	2.60	2.63	2.49	2.40	2.08	2.61	2.89	3.00	2.54	2.60	2.61	2.89
150	2.34	2.23	2.23	1.97	1.87	2.42	2.49	2.63	2.37	2.35	2.32	2.59
200	1.82	1.68	1.67	1.55	1.42	2.04	2.01	2.05	2.03	1.98		2.17
250	1.40	1.31	1.32	1.20	1.11	1.62	1.57	1.58	1.57	1.59		1.77
300	1.01	1.03	1.03	0.99	0.83	1.30	1.34	1.28	1.22	1.29		1.43
400	0.59	0.66	0.62	0.56		0.77	0.92	0.82	0.78	0.81		0.88
500	0.35	0.44	0.46	0.42		0.52	0.59	0.53	0.52	0.51		0.60

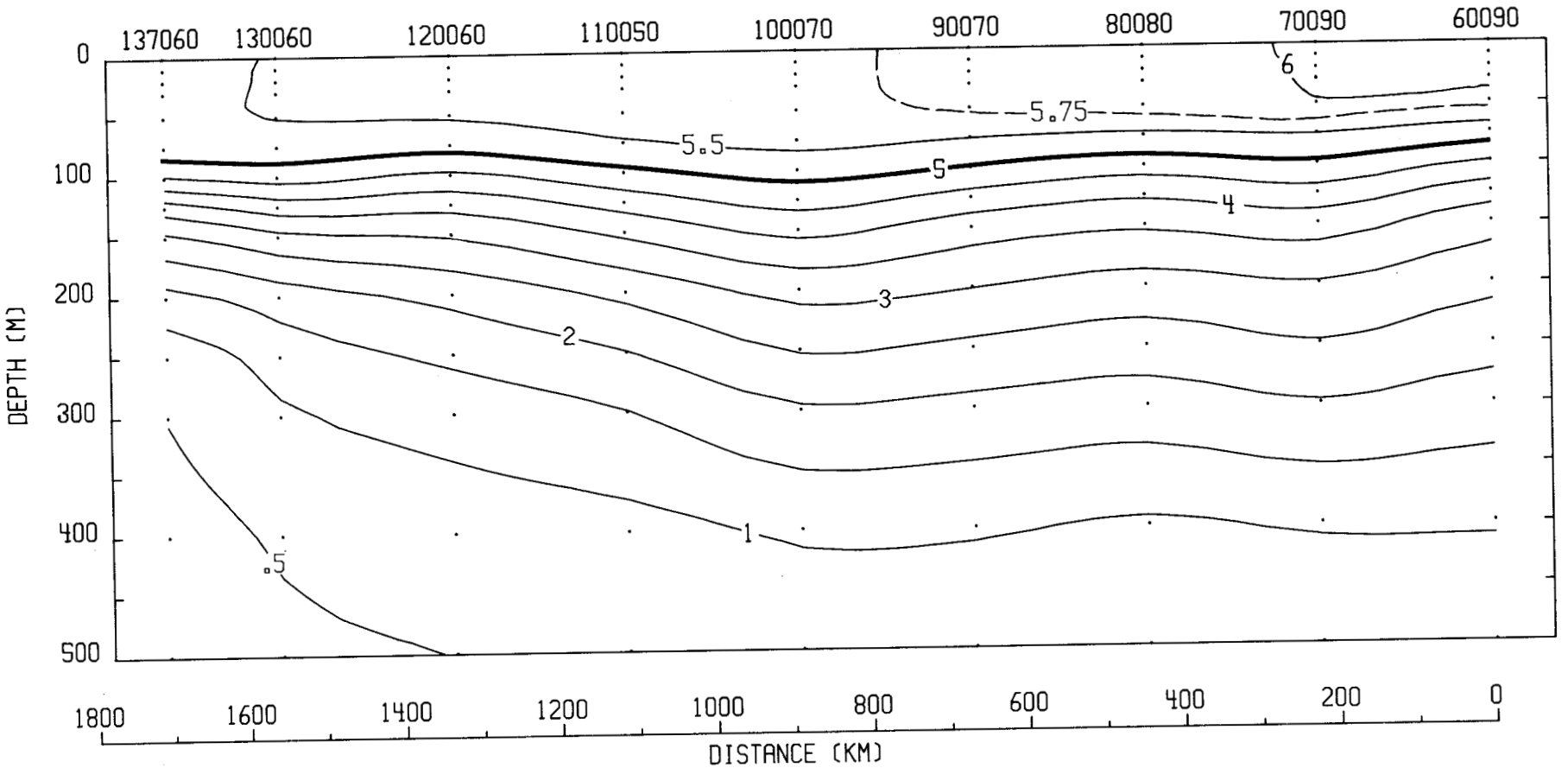


APRIL
OXYGEN

OXYGEN (ML/L) OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	5.31	5.52	5.76	5.70	5.63	5.86	5.85	6.05	6.07
10	5.33	5.56	5.67	5.68	5.63	5.84	5.91	6.02	6.03
20	5.38	5.48	5.64	5.69	5.67	5.83	5.92	6.03	6.07
30	5.40	5.52	5.67	5.69	5.67	5.86	5.92	6.03	6.09
50	5.42	5.49	5.52	5.67	5.70	5.81	5.88	6.00	5.94
75	5.35	5.36	5.07	5.48	5.64	5.47	5.52	5.64	5.30
100	4.42	4.70	4.18	4.80	5.18	4.87	4.76	5.10	4.48
125	3.03	3.69	3.38	4.00	4.68	4.15	4.04	4.49	3.68
150	2.26	2.69	2.80	3.36	4.09	3.54	3.58	3.89	3.15
200	1.23	1.50	1.88	2.35	3.05	2.83	2.82	3.06	2.63
250	0.57	0.99	1.35	1.67	2.42	2.20	2.27	2.56	2.23
300	0.42	0.73	0.92	1.20	1.79	1.68	1.80	2.04	1.81
400	0.26	0.39	0.54	0.61	0.92	0.90	0.94	1.08	1.10
500	0.22	0.28	0.36	0.39	0.53	0.51	0.55	0.60	0.64

OFFSHORE SECTION



APRIL
OXYGEN

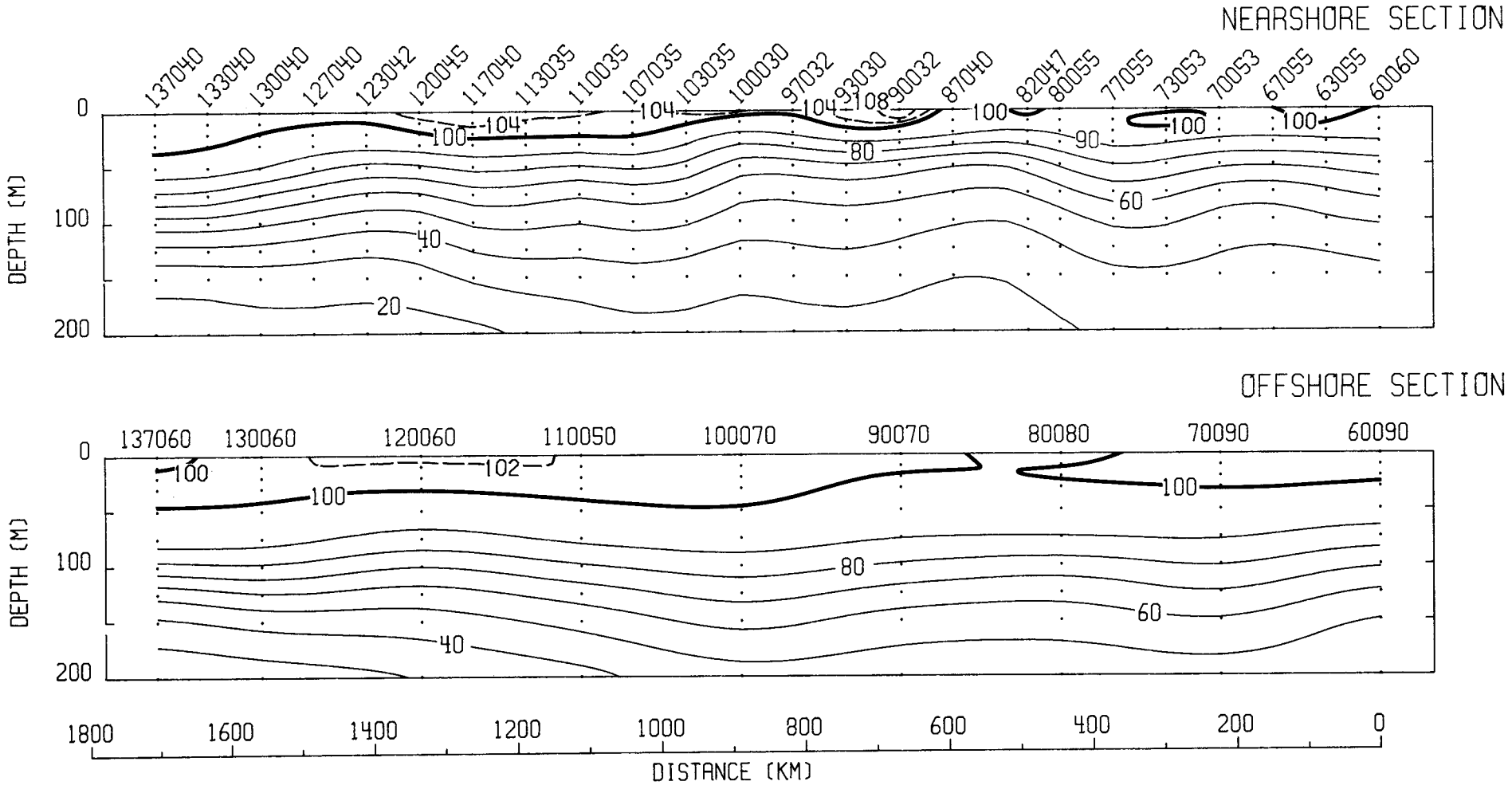
PERCENT OXYGEN SATURATION NEARSHORE LINE APRIL

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	100.8	100.9	101.9	103.7	98.7	104.7	105.7	104.7	104.7	101.6	104.5	104.3
10	101.4	101.3	102.1	99.8	98.7	103.2	104.8	103.8	103.7	103.5	102.0	96.6
20	102.2	100.7	101.0	96.3	97.8	100.0	103.2	101.7	100.1	103.1	101.0	79.6
30	102.0	100.4	99.5	93.7	93.6	93.9	100.0	97.8	95.2	98.4	97.4	67.9
50	97.7	95.3	93.8	81.4	75.3	74.2	88.7	79.9	76.8	81.5	87.6	50.9
75	76.9	82.0	66.4	62.2	60.2	49.1	73.9	62.7	58.0	64.6	68.2	43.8
100	52.6	58.6	49.2	47.9	43.6	38.4	57.7	52.8	46.9	55.3	56.0	38.0
125	35.5	37.5	36.6	33.5	31.6	30.0	44.4	43.3	40.9	43.5	45.8	32.0
150	23.9	21.4	27.1	23.7	24.4	23.1	34.3	33.4	34.8	36.6	39.3	27.1
200	14.6	12.2	17.1	14.8	15.5	14.6	17.8	19.3	25.7	24.9	29.9	20.0
250	9.1	9.0	11.4	10.5	8.9	9.6	11.0	14.2	17.4	17.8	21.9	16.6
300	6.2	6.3	8.2	7.5	7.0	7.6	8.6	10.8	12.4	13.9	16.1	13.3
400	4.6	4.1	5.1	5.0	5.4	5.1	6.5	7.4	7.8	8.2	9.4	
500	3.7	3.6	3.9	4.1	3.7	3.9	5.2	5.9	6.7	6.1	6.0	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	97.3	104.0	108.0	98.0	103.3	97.1	99.0	98.4	97.6	101.0	103.3	98.6
10	100.3	104.0	109.3	99.4	95.9	94.8	97.4	102.0	99.1	97.0	102.9	97.1
20	94.5	99.3	96.9	97.3	83.1	94.5	96.4	99.8	92.1	92.7	95.4	94.1
30	86.5	92.5	85.0	88.0	70.9	90.9	94.3	93.0	85.1	89.2	87.9	91.0
50	69.2	69.4	63.3	61.6	51.0	76.6	81.1	81.3	66.2	74.1	69.3	79.7
75	54.0	54.6	51.4	51.8	42.8	56.9	68.8	63.9	52.4	54.2	56.3	65.9
100	48.5	46.0	43.7	41.8	37.0	45.0	55.3	54.1	43.7	44.7	49.5	52.6
125	41.7	40.3	38.6	35.7	32.1	39.9	44.9	46.0	38.8	39.6	39.8	44.1
150	37.5	34.0	34.4	29.0	28.7	37.0	37.9	40.1	36.2	35.8	35.3	39.5
200	28.2	25.5	25.4	23.2	21.6	31.4	30.2	30.9	30.9	29.7		32.6
250	21.9	20.2	20.1	18.1	16.8	24.5	23.5	23.7	23.6	23.7		26.3
300	15.7	15.8	15.5	14.8	12.4	19.3	20.4	18.9	18.0	19.2		21.0
400	8.9	9.8	9.2	8.0		11.2	14.2	11.9	11.2	11.8		12.3
500	5.0	6.1	6.7	5.9		7.3	7.8	7.6	7.1	7.2		8.1

PERCENT OXYGEN SATURATION OFFSHORE LINE APRIL

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	99.6	101.2	103.4	101.5	100.7	100.5	99.2	100.9	101.0
10	99.9	101.9	101.6	101.2	100.2	100.2	100.1	100.8	99.8
20	100.6	100.5	100.7	101.1	100.6	99.8	100.1	100.5	100.2
30	100.7	100.9	100.7	100.9	100.6	99.8	99.9	100.3	100.3
50	100.0	99.9	95.5	99.4	100.5	97.7	98.4	99.0	96.4
75	96.2	95.2	85.2	93.5	96.8	90.5	90.3	92.2	84.9
100	75.9	80.4	68.1	79.2	86.1	78.7	74.5	82.0	70.0
125	50.2	60.8	54.1	64.1	75.4	65.7	61.8	71.5	56.6
150	36.6	43.6	44.2	52.9	64.5	55.0	54.3	60.7	48.0
200	19.6	23.8	29.4	36.5	46.9	43.1	41.9	46.2	39.7
250	9.1	15.4	21.0	25.5	36.6	33.4	33.3	38.5	33.5
300	6.6	11.2	14.1	18.2	26.5	25.3	26.1	30.3	26.8
400	3.9	5.9	8.1	9.1	13.1	13.0	13.2	15.6	15.6
500	3.2	4.1	5.3	5.7	7.7	7.2	7.6	8.5	9.1

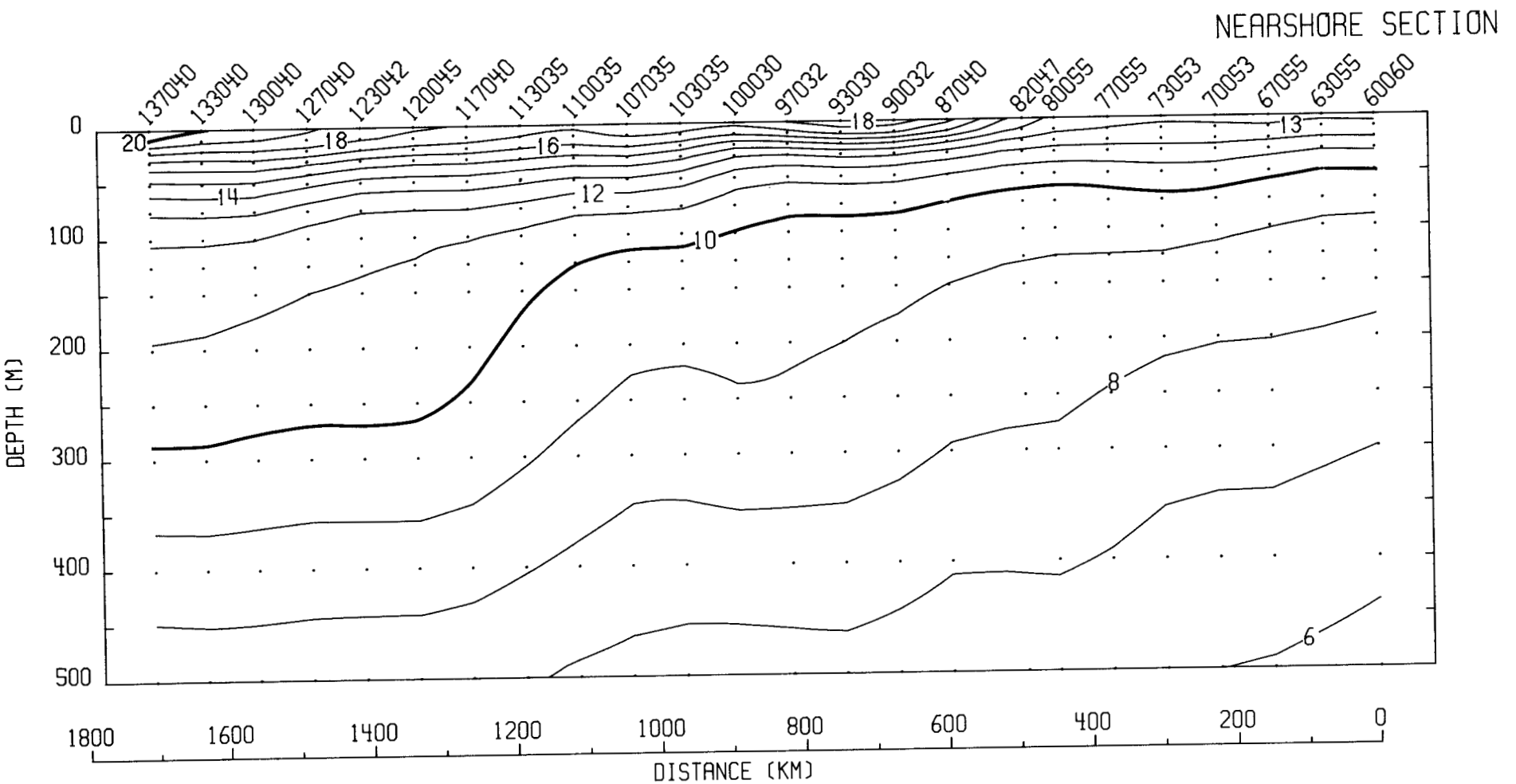


APRIL
PERCENT OXYGEN SATURATION

TEMPERATURE (DEG. C) NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	22.62	19.92	20.18	19.77	18.85	18.82	18.24	17.48	16.93	18.44	18.50	17.20
10	21.26	19.15	19.50	19.39	18.38	18.36	17.82	17.75	16.14	18.22	18.01	15.15
20	18.91	17.49	18.60	18.02	17.23	16.87	16.56	16.60	14.90	17.36	16.03	13.47
30	16.89	16.43	17.23	16.52	15.75	15.52	15.02	15.62	13.82	15.87	14.64	12.32
50	14.80	14.73	15.37	14.11	13.71	13.53	13.37	13.28	12.19	13.70	12.74	10.99
75	13.28	12.76	13.68	12.33	12.15	11.91	11.86	11.74	11.00	11.62	11.43	10.27
100	12.24	11.82	12.44	11.41	11.30	11.24	11.01	10.91	10.38	10.37	10.42	9.93
125	11.71	11.53	11.63	11.08	11.14	11.06	10.74	10.41	10.14	9.80	9.99	9.79
150	11.45	11.41	11.31	10.88	11.02	10.84	10.63	10.10	9.96	9.60	9.70	9.68
200	10.97	10.95	10.84	10.49	10.81	10.62	10.44	9.74	9.79	9.14	9.18	9.42
250	10.38	10.52	10.28	10.12	10.40	10.22	10.24	9.40	9.48	8.62	8.83	9.19
300	9.78	10.01	9.78	9.60	9.82	9.67	9.88	8.93	9.03	8.15	8.49	8.85
400	8.51	8.75	8.57	8.47	8.51	8.54	8.59	7.97	7.99	7.28	7.58	
500	7.35	7.56	7.47	7.36	7.35	7.32	7.37	7.03	6.94	6.65	6.76	

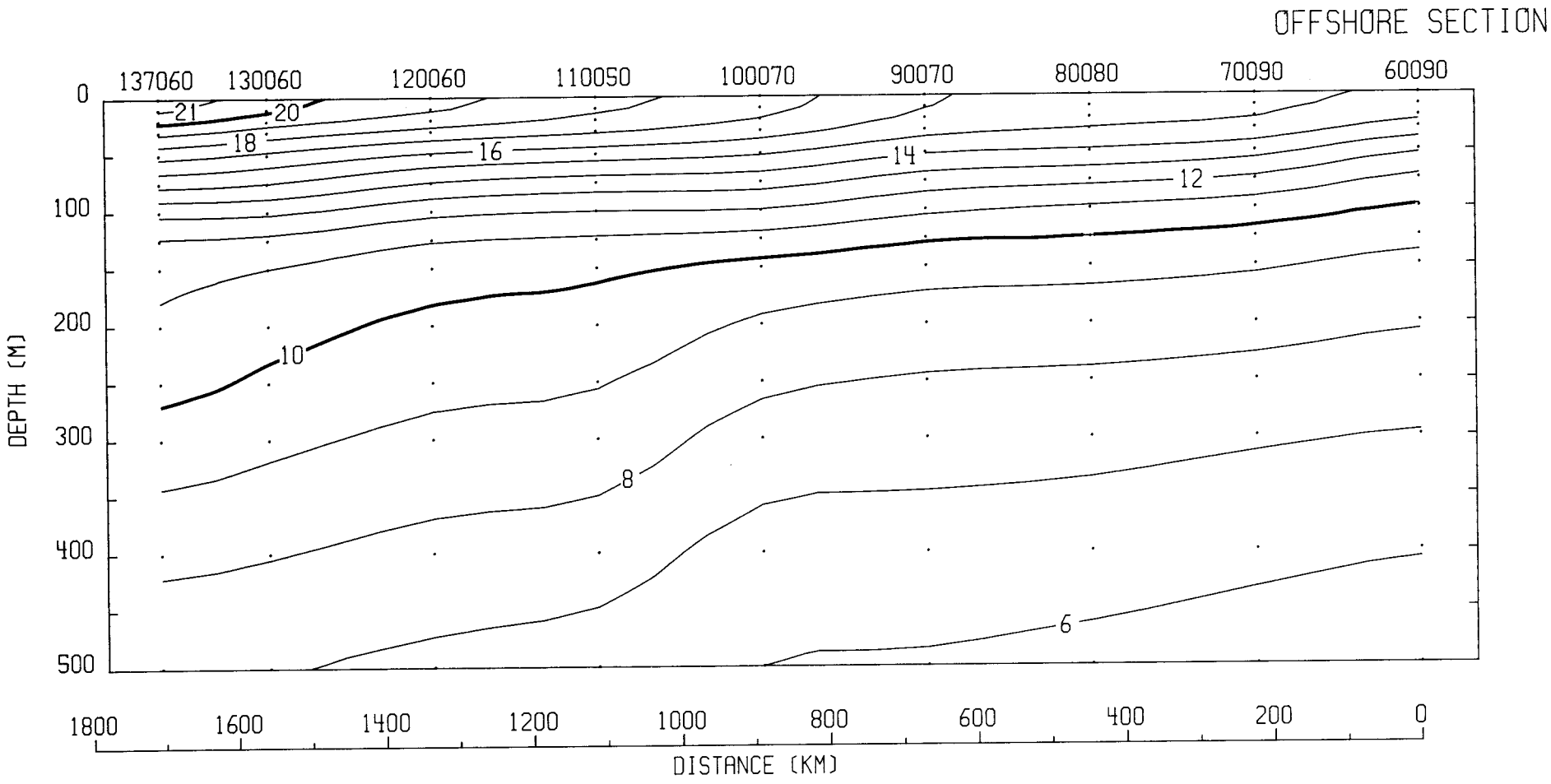
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	18.84	19.93	19.47	19.36	15.65	13.42	13.80	13.26	13.36	13.66	13.22	13.64
10	17.47	17.76	18.46	16.54	14.33	13.14	13.44	12.87	13.01	13.48	12.81	13.29
20	14.87	15.07	15.82	14.30	13.11	12.13	12.65	12.45	12.42	12.50	11.71	12.44
30	12.97	13.15	13.45	12.82	12.00	11.51	11.59	11.94	11.83	11.61	10.69	11.45
50	11.28	11.31	11.57	11.00	10.62	10.28	10.32	10.85	10.54	10.37	9.67	10.28
75	10.31	10.25	10.35	10.02	9.72	9.55	9.59	9.91	9.75	9.57	9.23	9.38
100	9.69	9.76	9.81	9.54	9.28	9.19	9.24	9.30	9.23	9.10	8.89	8.85
125	9.40	9.49	9.45	9.23	9.09	9.02	9.00	9.14	8.90	8.81	8.64	8.50
150	9.29	9.31	9.28	8.99	8.92	8.86	8.76	8.85	8.59	8.61	8.47	8.26
200	9.04	9.11	8.98	8.56	8.68	8.61	8.35	8.26	8.07	8.08		7.78
250	8.81	8.92	8.67	8.26	8.31	8.32	7.95	7.72	7.63	7.72		7.40
300	8.37	8.57	8.35	7.87	7.85	8.02	7.62	7.30	7.23	7.37		7.00
400	7.48	7.69	7.43	7.01		7.28	6.96	6.68	6.54	6.70		6.17
500	6.65	6.81	6.58	6.30		6.47	6.13	6.03	5.97	6.01		5.63



JULY
TEMPERATURE

TEMPERATURE (DEG. C) OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	21.95	20.92	19.23	18.60	17.66	16.32	15.79	15.68	15.03
10	21.44	20.36	19.07	18.43	17.43	16.21	15.66	15.55	14.76
20	20.37	19.56	18.45	17.96	17.07	15.98	15.53	15.38	14.35
30	19.34	18.62	17.54	17.34	16.60	15.54	15.22	15.09	13.74
50	17.38	16.87	15.59	15.52	15.19	14.04	14.08	13.58	12.04
75	15.37	15.25	13.69	13.46	13.55	12.51	12.32	11.81	10.78
100	13.17	13.38	12.02	12.03	12.05	11.30	10.92	10.54	9.94
125	11.86	11.84	10.90	10.93	10.70	10.13	10.05	9.66	9.27
150	11.23	11.07	10.21	10.24	9.70	9.35	9.27	9.08	8.69
200	10.98	10.42	9.62	9.84	8.80	8.54	8.51	8.34	8.03
250	10.36	9.89	9.11	9.19	8.13	7.92	7.83	7.67	7.44
300	9.66	9.31	8.61	8.67	7.47	7.42	7.30	7.08	6.88
400	8.26	8.15	7.56	7.53	6.50	6.57	6.45	6.18	6.00
500	7.21	7.10	6.75	6.58	5.92	5.92	5.72	5.51	5.37

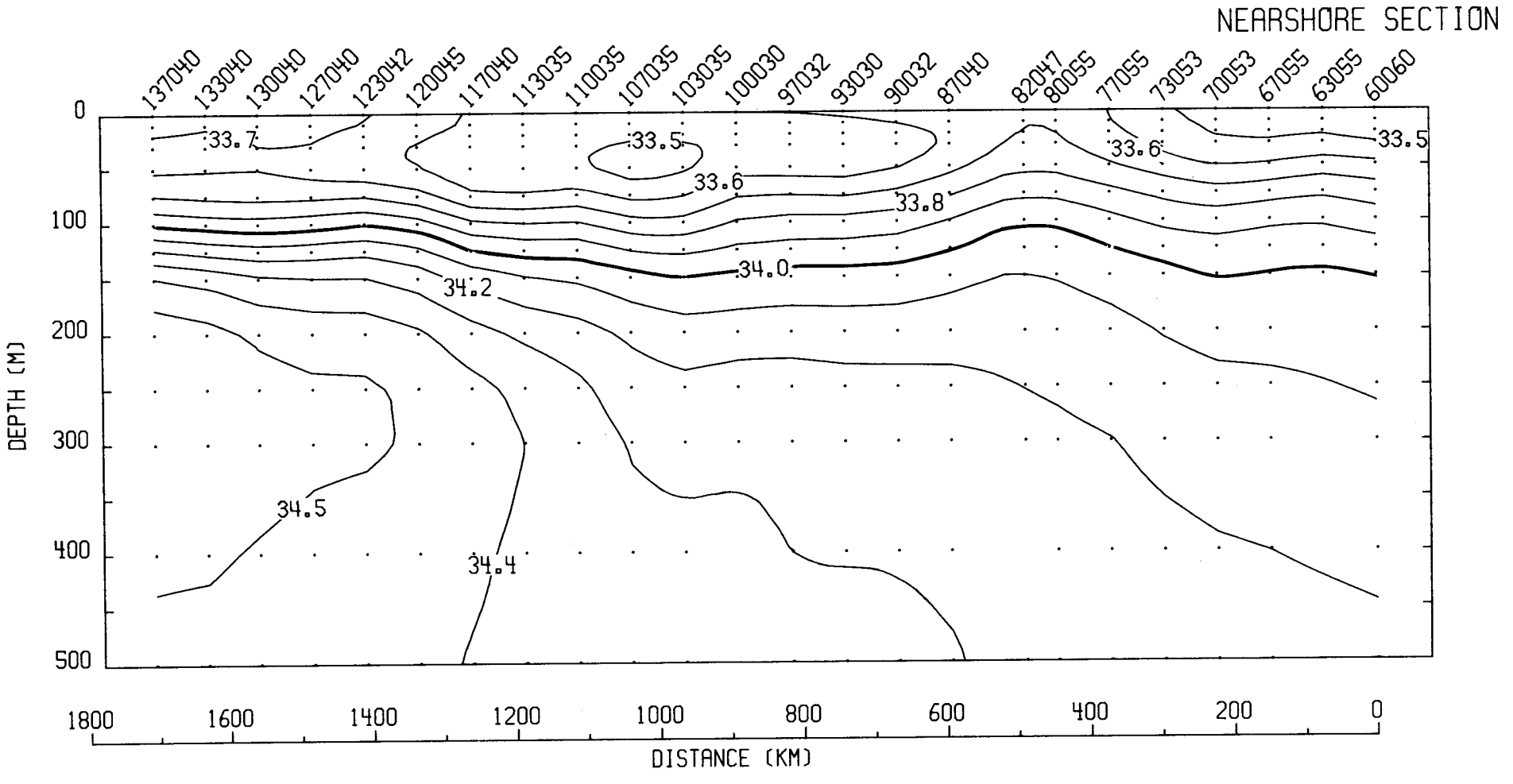


JULY
TEMPERATURE

SALINITY (PPT) NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	33.85	33.69	33.77	33.76	33.71	33.72	33.56	33.52	33.62	33.54	33.59	33.63
10	33.82	33.66	33.76	33.74	33.68	33.71	33.55	33.52	33.60	33.54	33.57	33.57
20	33.73	33.57	33.75	33.71	33.66	33.62	33.52	33.52	33.58	33.51	33.52	33.55
30	33.72	33.64	33.72	33.72	33.62	33.61	33.46	33.50	33.57	33.41	33.46	33.56
50	33.68	33.64	33.72	33.64	33.61	33.64	33.48	33.48	33.59	33.38	33.42	33.64
75	33.82	33.70	33.81	33.74	33.78	33.80	33.55	33.60	33.72	33.47	33.54	33.77
100	34.00	33.92	33.96	33.93	33.97	34.02	33.76	33.83	33.89	33.64	33.68	33.87
125	34.24	34.20	34.13	34.14	34.17	34.19	33.99	33.99	34.03	33.82	33.85	33.95
150	34.41	34.43	34.31	34.29	34.31	34.29	34.18	34.12	34.12	33.99	33.98	34.03
200	34.56	34.57	34.46	34.45	34.47	34.45	34.35	34.27	34.28	34.13	34.13	34.15
250	34.57	34.59	34.51	34.51	34.53	34.51	34.45	34.36	34.35	34.19	34.22	34.26
300	34.56	34.59	34.52	34.51	34.53	34.50	34.48	34.39	34.37	34.24	34.28	34.32
400	34.50	34.53	34.48	34.48	34.45	34.46	34.43	34.37	34.37	34.29	34.31	
500	34.48	34.47	34.46	34.45	34.44	34.42	34.40	34.37	34.36	34.33	34.32	

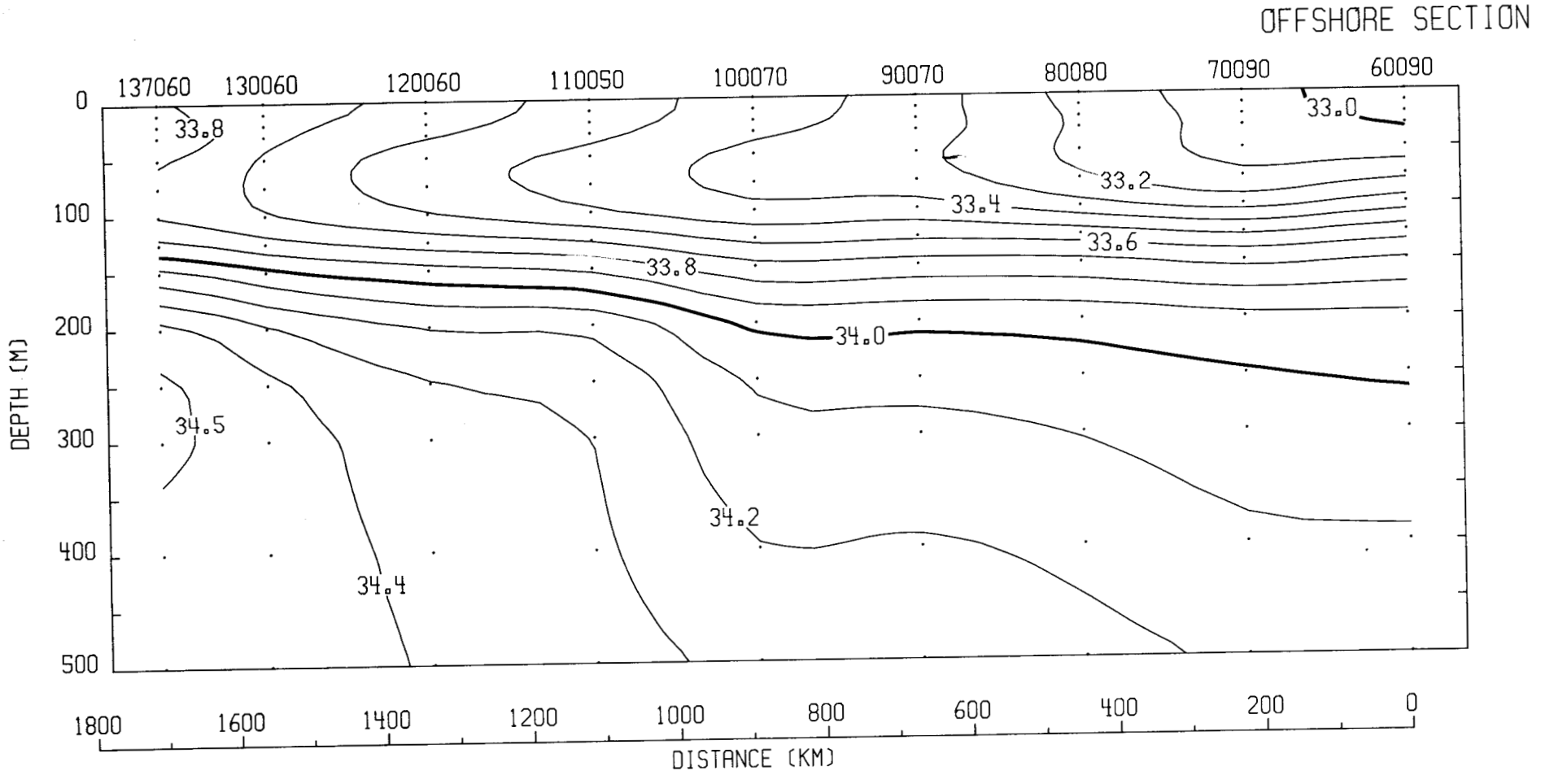
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	33.58	33.62	33.66	33.61	33.71	33.71	33.59	33.45	33.45	33.45	33.47	33.37
10	33.55	33.57	33.65	33.57	33.72	33.71	33.59	33.48	33.44	33.45	33.49	33.37
20	33.48	33.53	33.58	33.56	33.70	33.72	33.62	33.52	33.47	33.42	33.52	33.40
30	33.46	33.49	33.54	33.54	33.70	33.73	33.63	33.53	33.50	33.44	33.55	33.46
50	33.51	33.54	33.57	33.59	33.79	33.78	33.68	33.62	33.58	33.55	33.69	33.54
75	33.64	33.69	33.71	33.73	33.89	33.89	33.81	33.77	33.69	33.73	33.82	33.68
100	33.79	33.85	33.84	33.85	34.01	33.99	33.92	33.86	33.81	33.88	33.91	33.79
125	33.89	33.95	33.93	33.95	34.08	34.05	34.00	33.97	33.90	33.95	33.97	33.90
150	34.01	34.03	34.02	34.04	34.12	34.09	34.06	34.03	33.96	34.01	34.02	33.98
200	34.13	34.16	34.15	34.14	34.17	34.16	34.14	34.10	34.05	34.06		34.04
250	34.22	34.24	34.22	34.24	34.18	34.20	34.16	34.15	34.11	34.11		34.09
300	34.26	34.27	34.26	34.27	34.20	34.23	34.20	34.17	34.14	34.14		34.12
400	34.29	34.31	34.28	34.30		34.25	34.25	34.22	34.20	34.20		34.17
500	34.32	34.32	34.30	34.32		34.28	34.24	34.26	34.24	34.25		34.23



JULY
SALINITY

SALINITY (PPT) OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	33.83	33.75	33.64	33.54	33.45	33.37	33.15	33.03	32.92
10	33.81	33.74	33.63	33.54	33.45	33.35	33.14	33.02	32.91
20	33.88	33.74	33.61	33.53	33.44	33.36	33.17	33.04	32.95
30	33.91	33.71	33.58	33.52	33.42	33.37	33.17	33.04	32.97
50	33.83	33.68	33.52	33.47	33.37	33.32	33.16	33.04	33.01
75	33.79	33.68	33.52	33.46	33.36	33.35	33.16	33.09	33.16
100	33.80	33.70	33.59	33.52	33.41	33.45	33.32	33.24	33.33
125	33.94	33.83	33.75	33.71	33.56	33.57	33.54	33.50	33.55
150	34.16	34.03	33.93	33.91	33.72	33.74	33.72	33.69	33.72
200	34.47	34.32	34.16	34.21	33.96	33.97	33.97	33.93	33.93
250	34.54	34.43	34.28	34.29	34.07	34.07	34.05	34.00	33.99
300	34.53	34.46	34.32	34.31	34.11	34.13	34.10	34.04	34.03
400	34.47	34.45	34.36	34.32	34.19	34.21	34.18	34.11	34.10
500	34.47	34.44	34.39	34.33	34.27	34.29	34.23	34.18	34.17

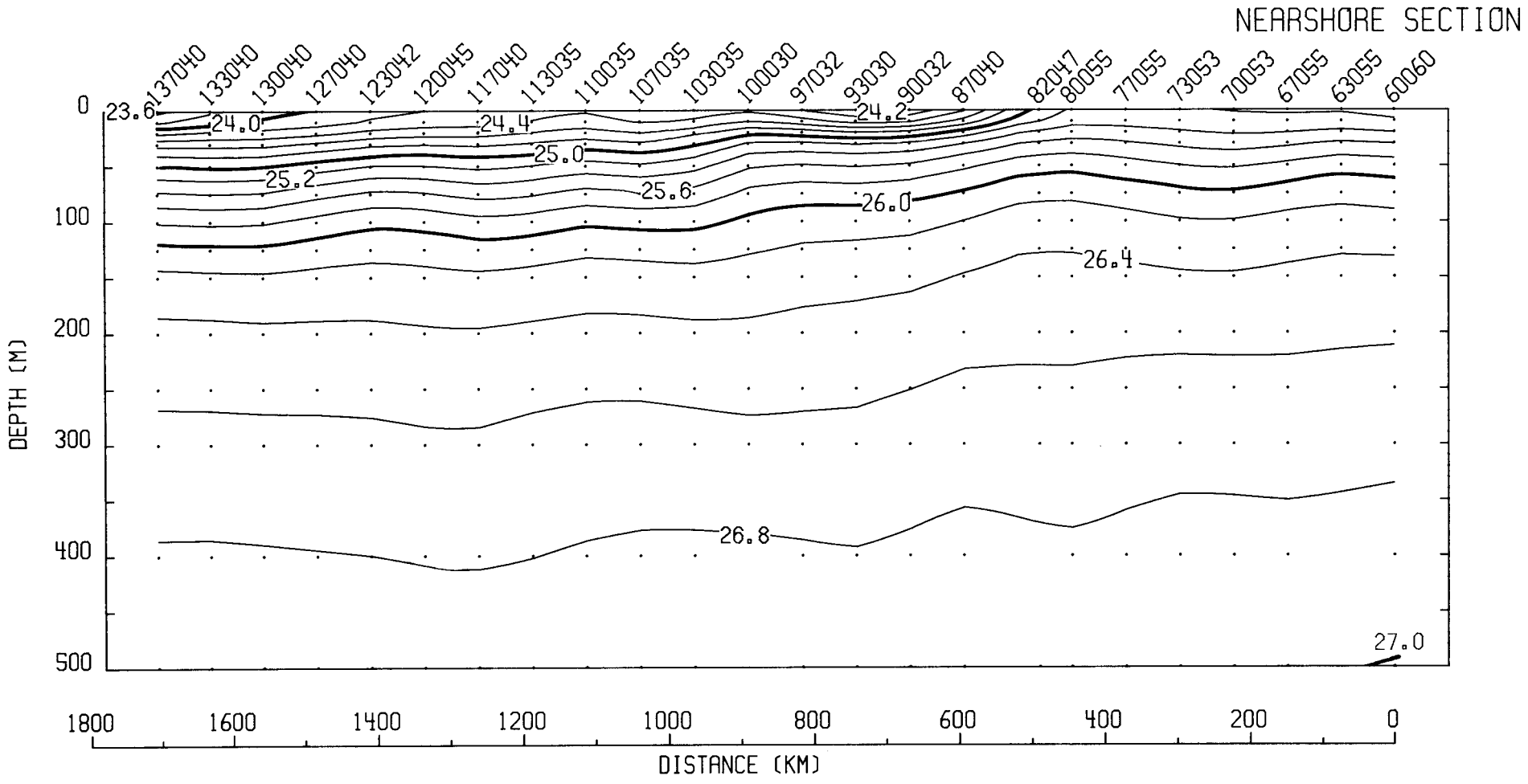


JULY
SALINITY

SIGMA-T NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	23.20	23.69	23.80	23.88	23.99	24.09	24.12	24.32	24.48	24.06	24.08	24.42
10	23.45	23.96	23.95	23.97	24.17	24.18	24.21	24.22	24.65	24.12	24.19	24.83
20	24.04	24.25	24.16	24.29	24.39	24.49	24.49	24.48	24.91	24.31	24.62	25.17
30	24.55	24.56	24.47	24.66	24.71	24.79	24.79	24.68	25.12	24.57	24.88	25.42
50	24.99	24.96	24.91	25.12	25.16	25.25	25.15	25.17	25.47	25.01	25.24	25.74
75	25.43	25.43	25.34	25.56	25.62	25.69	25.50	25.57	25.79	25.49	25.58	25.97
100	25.77	25.80	25.71	25.89	25.93	25.98	25.83	25.90	26.04	25.85	25.87	26.10
125	26.06	26.07	26.00	26.11	26.12	26.14	26.06	26.11	26.19	26.08	26.08	26.19
150	26.24	26.27	26.19	26.26	26.25	26.26	26.22	26.26	26.29	26.24	26.23	26.27
200	26.45	26.47	26.41	26.46	26.42	26.42	26.39	26.44	26.44	26.43	26.43	26.41
250	26.56	26.57	26.54	26.56	26.54	26.54	26.50	26.57	26.55	26.56	26.55	26.53
300	26.66	26.65	26.64	26.65	26.64	26.63	26.58	26.67	26.64	26.67	26.65	26.62
400	26.82	26.83	26.80	26.81	26.79	26.79	26.76	26.80	26.80	26.84	26.82	
500	26.97	26.97	26.95	26.95	26.95	26.94	26.91	26.94	26.95	26.96	26.94	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	23.99	23.72	23.85	23.88	24.83	25.28	25.18	25.15	25.13	25.07	25.18	24.96
10	24.30	24.24	24.10	24.52	25.12	25.38	25.23	25.26	25.20	25.13	25.28	25.08
20	24.84	24.83	24.70	25.02	25.37	25.59	25.41	25.37	25.33	25.31	25.51	25.27
30	25.22	25.20	25.18	25.31	25.59	25.71	25.62	25.48	25.47	25.49	25.72	25.51
50	25.58	25.60	25.57	25.70	25.92	25.97	25.89	25.75	25.77	25.79	26.01	25.79
75	25.86	25.91	25.90	25.98	26.15	26.18	26.11	26.03	26.00	26.06	26.18	26.05
100	26.08	26.11	26.10	26.15	26.32	26.32	26.26	26.20	26.17	26.25	26.30	26.21
125	26.21	26.24	26.23	26.28	26.40	26.39	26.36	26.31	26.29	26.36	26.39	26.36
150	26.32	26.33	26.33	26.39	26.46	26.45	26.44	26.41	26.39	26.43	26.46	26.46
200	26.45	26.46	26.47	26.54	26.54	26.54	26.56	26.55	26.54	26.55		26.57
250	26.56	26.55	26.58	26.65	26.61	26.62	26.65	26.67	26.65	26.64		26.66
300	26.66	26.63	26.66	26.74	26.69	26.69	26.73	26.75	26.73	26.71		26.75
400	26.82	26.80	26.81	26.89		26.81	26.85	26.87	26.87	26.85		26.90
500	26.95	26.93	26.95	27.00		26.94	26.96	26.98	26.98	26.98		27.01

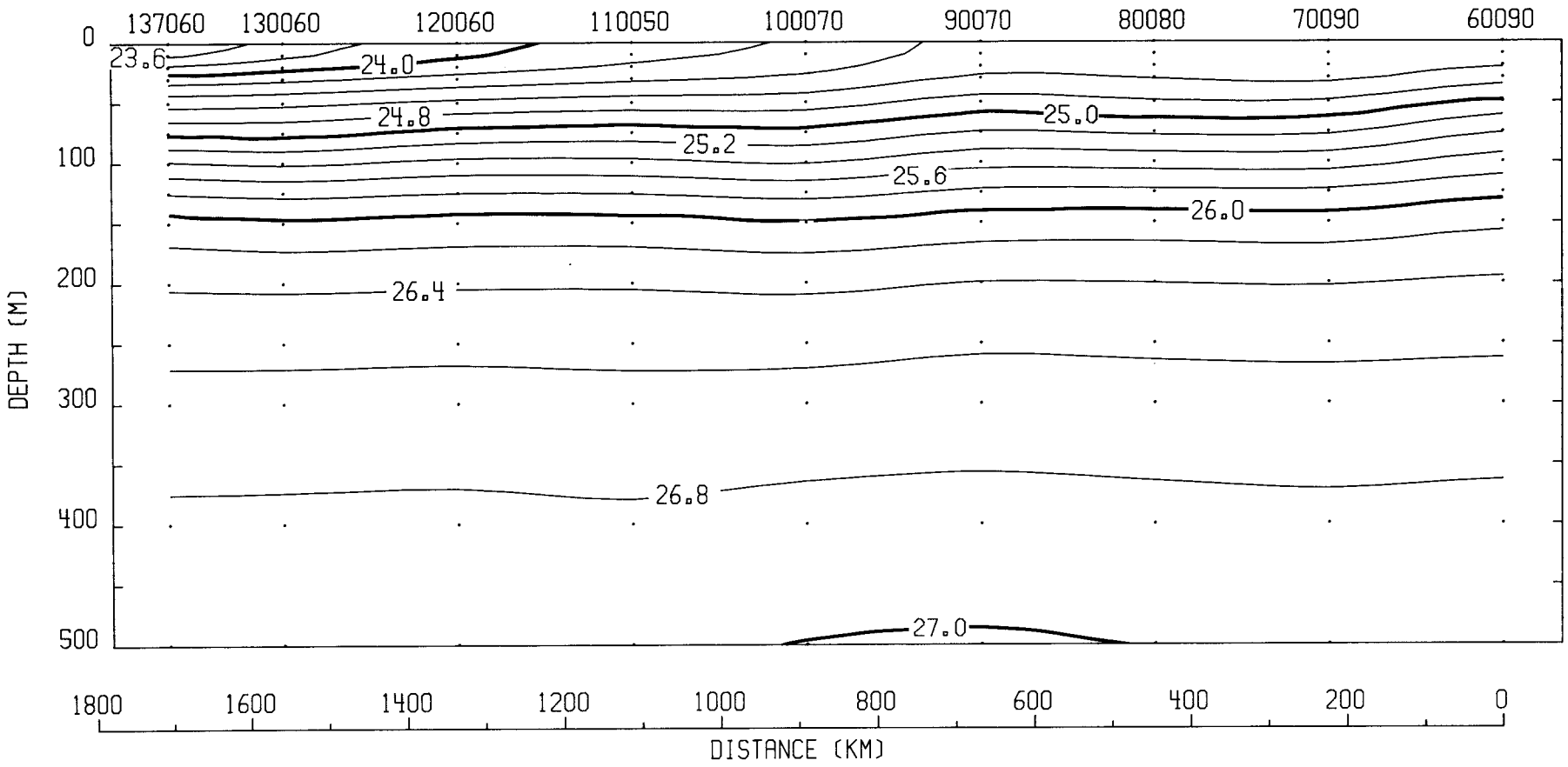

NEARSHORE SECTION
137040
133040
130040
127040
123042
120045
117040
113035
110035
107035
103035
100030
97032
93030
90032
87040
82047
80055
77055
73053
70053
67055
63055
60060
23.6
24.0
24.4
24.2
25.0
25.2
25.6
26.0
26.4
26.8
27.0
DEPTH (M)
0
100
200
300
400
500
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)

JULY
SIGMA-T

SIGMA-T OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	23.36	23.58	23.92	24.02	24.19	24.44	24.38	24.30	24.35
10	23.49	23.68	23.97	24.06	24.24	24.45	24.41	24.34	24.43
20	23.82	23.90	24.08	24.18	24.32	24.51	24.46	24.40	24.54
30	24.12	24.12	24.28	24.32	24.41	24.61	24.53	24.46	24.68
50	24.53	24.53	24.69	24.69	24.69	24.90	24.76	24.77	25.04
75	24.97	24.90	25.10	25.13	25.03	25.23	25.12	25.15	25.39
100	25.45	25.32	25.49	25.45	25.36	25.53	25.50	25.50	25.67
125	25.81	25.73	25.83	25.80	25.72	25.84	25.82	25.86	25.95
150	26.10	26.03	26.10	26.08	26.02	26.09	26.10	26.10	26.18
200	26.39	26.36	26.39	26.38	26.36	26.41	26.41	26.41	26.45
250	26.55	26.54	26.56	26.55	26.54	26.58	26.57	26.56	26.58
300	26.67	26.66	26.67	26.65	26.68	26.70	26.69	26.67	26.69
400	26.84	26.84	26.86	26.83	26.87	26.88	26.86	26.85	26.86
500	26.99	26.98	27.00	26.97	27.01	27.02	27.00	26.99	27.00

OFFSHORE SECTION



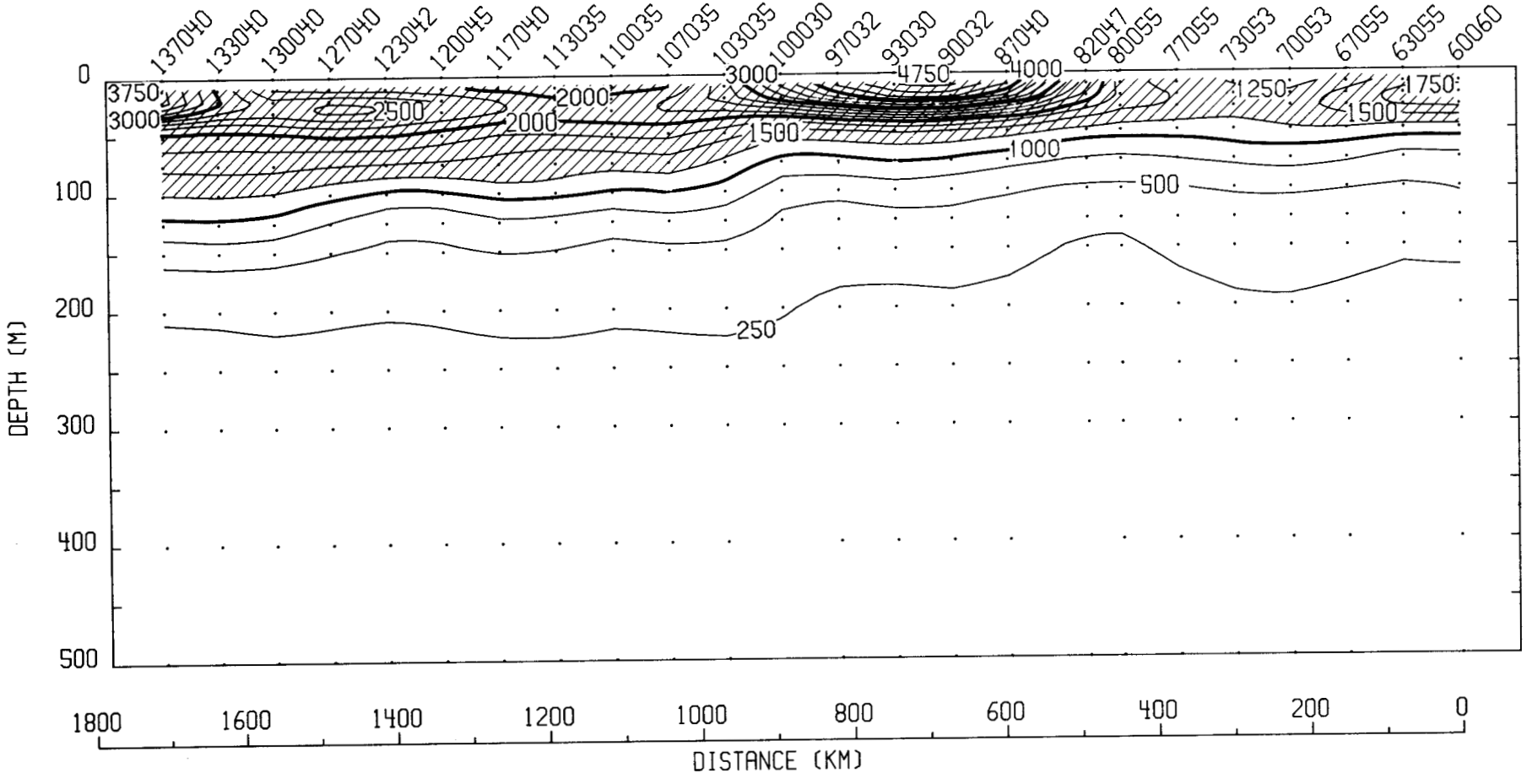
JULY
SIGMA-T

STABILITY (10E-8/M) NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0												
10	4199	2798	1793	2044	1978	1980	1837	790	2141	1213	2672	3755
20	5497	2989	2601	3453	2700	3012	2883	2338	2370	2268	3422	2964
30	3901	2659	2741	3134	2826	2743	2535	2231	2023	2467	2287	2153
50	1801	1897	1906	1989	2002	2042	1524	2090	1516	2069	1547	1215
75	1540	1685	1600	1516	1558	1474	1357	1435	1124	1689	1248	699
100	1274	1250	1319	1081	974	865	1119	1091	787	1172	1008	411
125	927	943	957	733	609	523	767	707	482	775	711	324
150	565	642	620	506	440	405	515	491	344	515	504	311
200	290	241	306	275	263	271	248	284	255	281	302	257
250	192	164	219	180	209	198	183	219	195	236	215	215
300	170	176	178	167	178	165	158	157	171	205	186	
400	155	161	153	150	150	153	169	126	150	143	140	
500												

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0												
10	4268	5556	4246	5704	2686	1533	1135	1077	993	1176	1666	1549
20	4566	4818	5393	3931	2349	1690	1967	1105	1366	1761	2244	2140
30	2997	3029	3645	2554	2000	1312	1813	1231	1446	1705	1869	1974
50	1327	1524	1467	1509	1280	1098	1088	1279	1240	1327	1021	1178
75	978	987	1027	866	782	673	718	898	775	906	549	826
100	688	637	614	565	490	402	479	546	572	568	422	610
125	458	422	450	467	264	239	354	396	440	328	309	492
150	370	326	360	375	204	210	293	344	364	262		310
200	222	206	236	254	130	174	197	255	246	209		191
250	198	164	177	198	144	140	155	189	188	154		168
300	179	163	155	159		126	148	139	148	145		159
400	145	152	146	132		124	112	114	126	134		133
500												

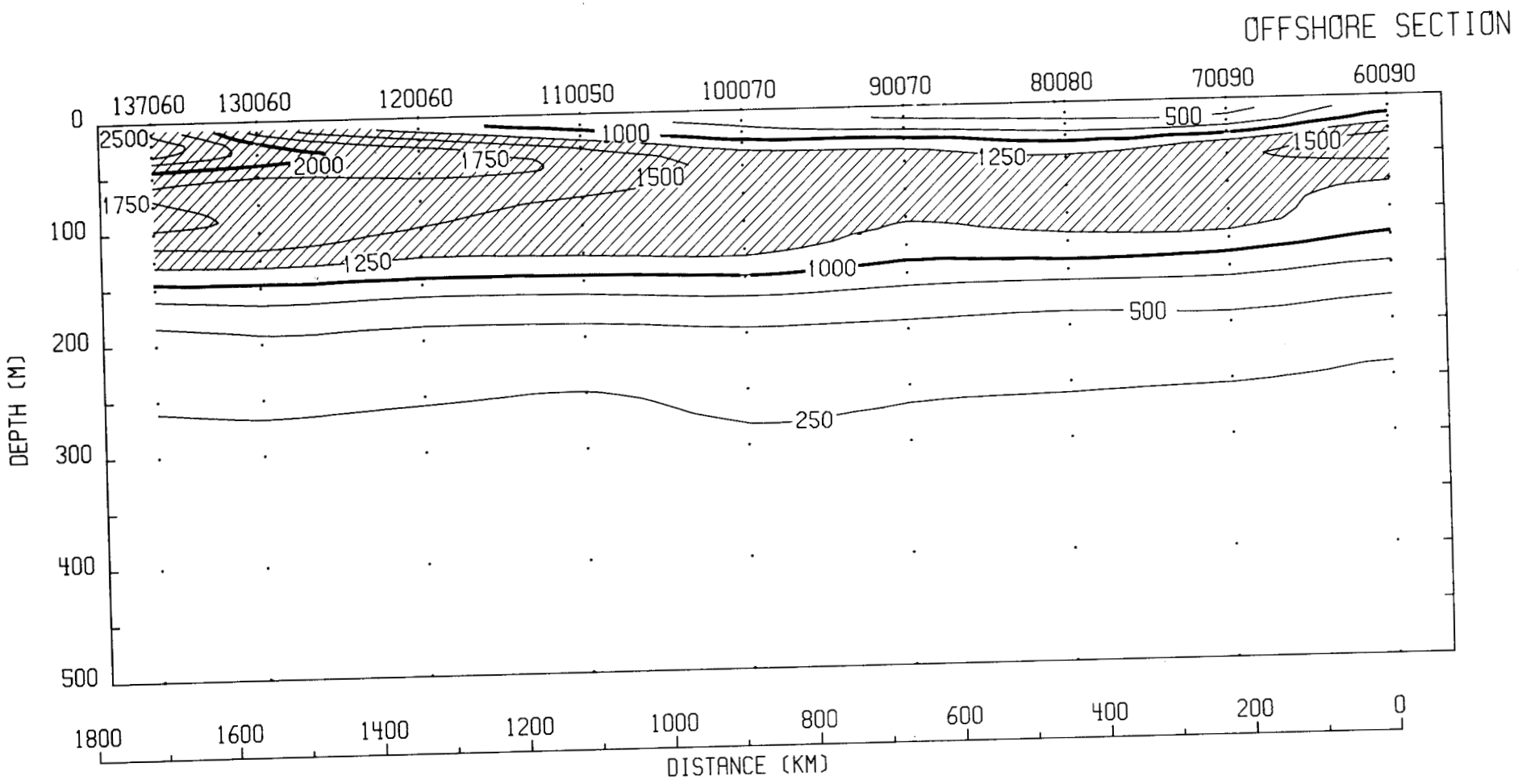
NEARSHORE SECTION



JULY
STABILITY

STABILITY (10E-8/M) OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0									
10	2326	1574	822	777	631	348	400	456	950
20	3158	2187	1569	1275	829	800	605	573	1250
30	2607	2179	2034	1597	1108	1218	872	1009	1577
50	1823	1749	1854	1874	1419	1423	1317	1634	1672
75	1828	1559	1598	1513	1326	1264	1508	1463	1240
100	1737	1707	1464	1336	1404	1221	1418	1429	1117
125	1305	1419	1216	1283	1363	1129	1207	1223	1043
150	903	964	881	911	991	878	915	829	768
200	384	461	412	412	459	443	421	416	353
250	260	273	263	242	291	259	253	243	223
300	200	205	194	183	233	207	204	193	196
400	157	152	160	161	162	158	154	153	150
500									

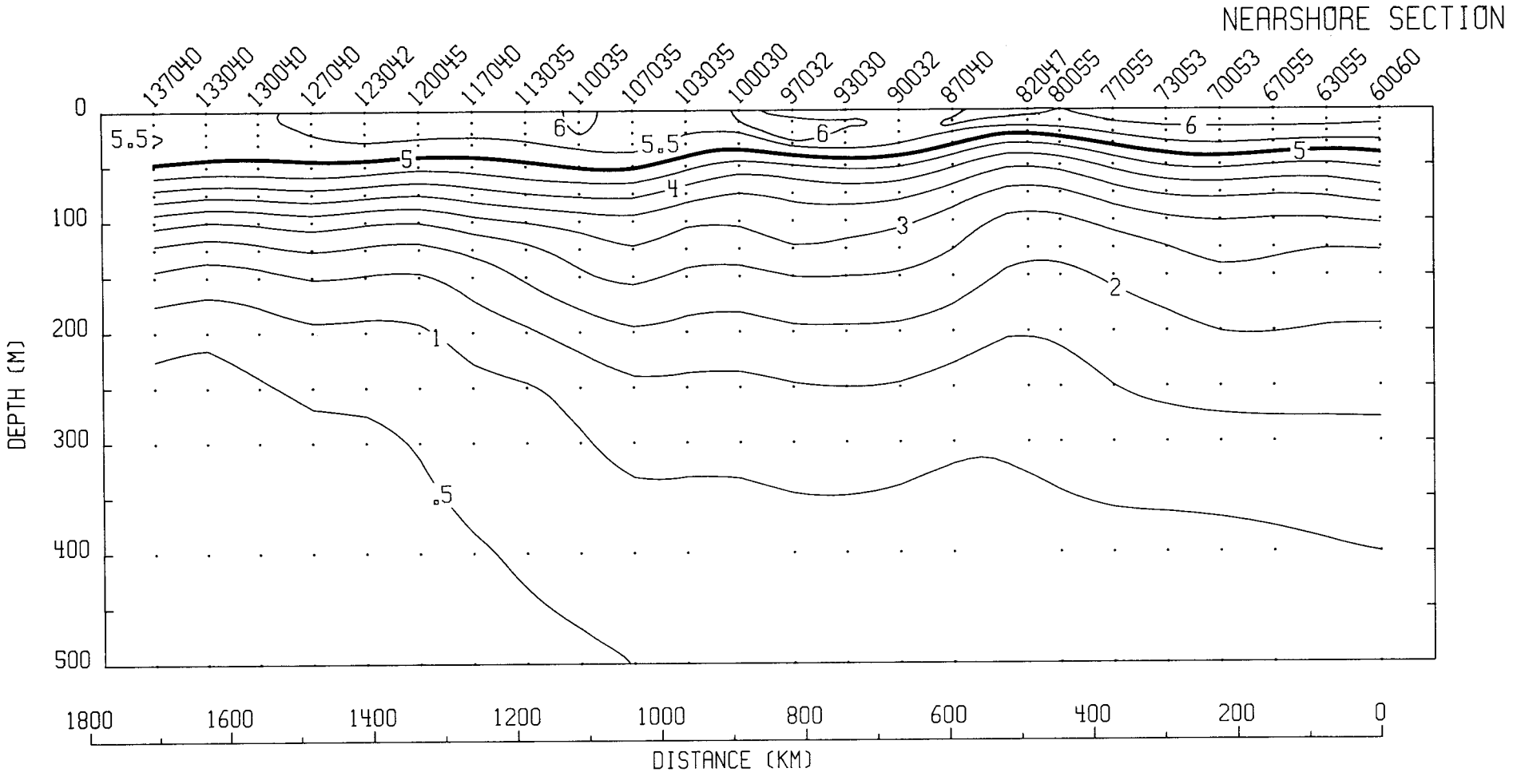


JULY
STABILITY

OXYGEN (ML/L) NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	5.27	5.50	5.37	5.61	5.48	5.60	5.89	5.67	6.12	5.66	5.61	6.30
10	5.32	5.53	5.42	5.65	5.52	5.58	5.89	5.50	6.29	5.64	5.78	5.87
20	5.51	5.53	5.18	5.65	5.63	5.56	5.65	5.49	6.05	5.81	5.69	4.72
30	5.64	5.47	5.03	5.55	5.57	5.44	5.34	5.43	5.58	5.94	5.52	4.57
50	5.07	4.73	4.83	4.98	4.88	4.59	4.54	5.19	4.71	5.61	4.49	4.01
75	3.99	3.45	3.63	3.96	3.64	3.36	3.75	4.18	3.80	4.59	3.43	3.36
100	2.94	2.17	2.56	2.90	2.51	2.24	2.98	3.01	2.96	3.85	2.63	3.14
125	2.06	1.45	1.92	2.11	1.94	1.65	2.16	2.39	2.47	3.46	2.46	2.67
150	1.57	1.05	1.30	1.65	1.43	1.31	1.69	2.16	2.24	3.01	2.11	2.29
200	0.73	0.41	0.71	1.02	0.81	0.79	1.30	1.42	1.56	2.27	1.63	1.86
250	0.45	0.25	0.46	0.63	0.52	0.57	0.95	0.93	1.00	1.65	1.25	1.37
300	0.33	0.26	0.29	0.44	0.42	0.48	0.71	0.76	0.87	1.31	1.03	1.02
400	0.27	0.25	0.24	0.31	0.32	0.38	0.45	0.58	0.60	0.79	0.69	
500	0.22	0.21	0.21	0.27	0.29	0.30	0.36	0.40	0.41	0.52	0.54	

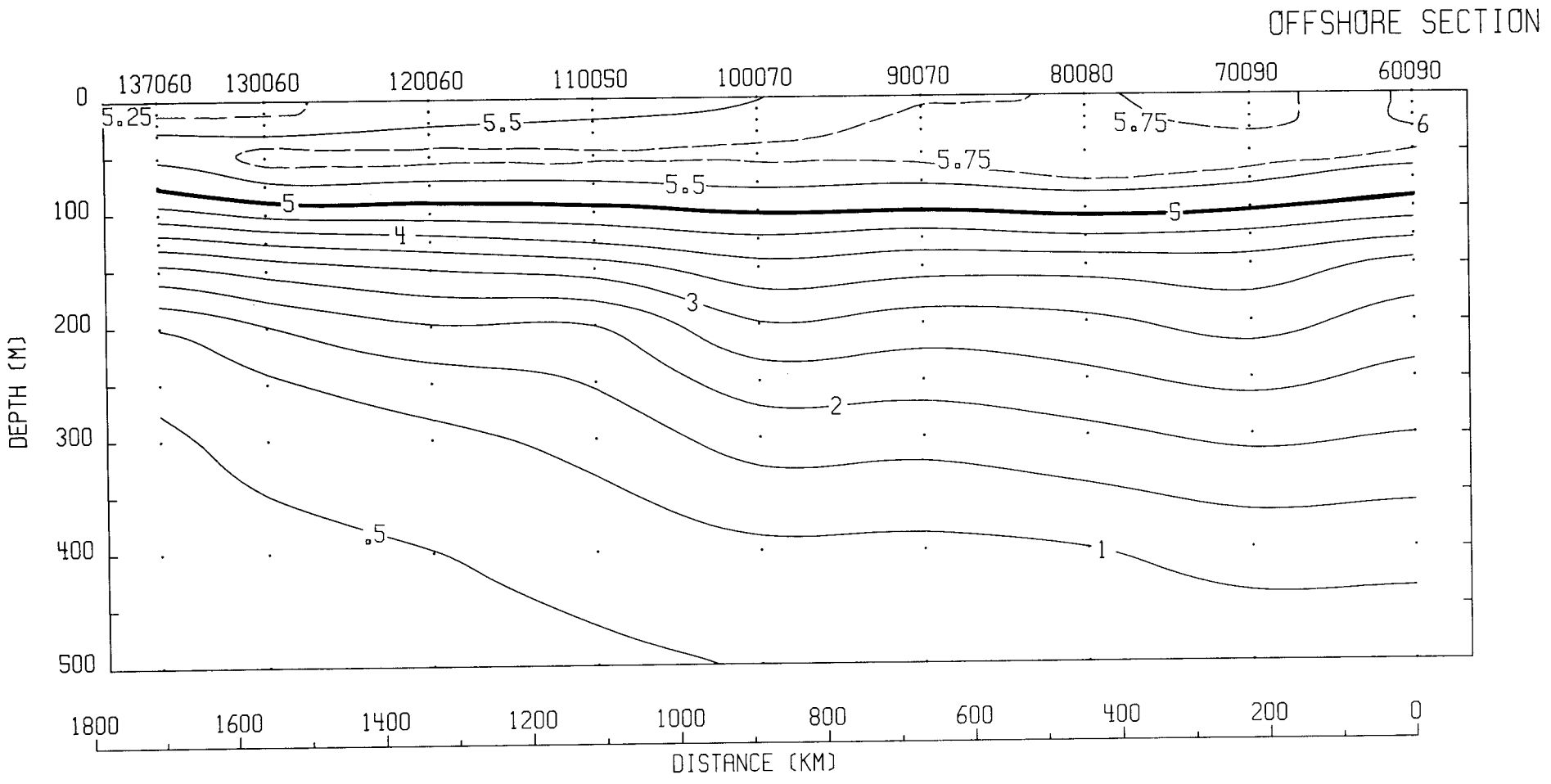
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	5.71	5.49	5.65	5.78	6.69	5.96	6.31	6.32	6.09	6.33	6.34	6.15
10	6.15	6.04	5.89	6.02	5.79	5.85	6.25	6.21	6.07	6.28	6.22	6.11
20	6.46	5.80	5.99	5.62	4.76	5.25	5.63	6.01	5.83	5.93	5.82	5.80
30	6.51	5.50	5.81	5.14	4.00	4.76	4.97	5.66	5.53	5.58	5.19	5.54
50	4.43	4.61	4.65	4.19	3.14	3.69	4.04	4.79	4.57	4.64	4.04	4.88
75	3.63	3.81	3.60	3.43	2.57	2.87	3.28	3.65	3.59	3.59	3.38	4.00
100	3.31	3.19	3.10	2.94	2.13	2.41	2.65	2.97	3.01	2.96	2.84	3.17
125	3.25	2.78	2.79	2.68	1.89	2.14	2.23	2.39	2.81	2.60	2.41	2.57
150	2.60	2.44	2.46	2.43	1.71	1.93	2.11	2.14	2.59	2.28	2.15	2.23
200	1.95	1.94	1.89	1.90	1.33	1.61	1.76	1.78	2.13	1.98		1.97
250	1.50	1.48	1.52	1.33	1.08	1.33	1.54	1.57	1.71	1.65		1.63
300	1.20	1.17	1.21	1.00	0.88	1.14	1.33	1.29	1.34	1.36		1.41
400	0.83	0.77	0.82	0.66		0.79	0.84	0.80	0.86	0.88		1.02
500	0.60	0.52	0.51	0.47		0.58	0.60	0.51	0.60	0.56		0.63


NEARSHORE SECTION
137040
133040
130040
127040
123042
120045
117040
113035
110035
107035
103035
100030
97032
93030
90032
87040
82047
80055
77055
73053
70053
67055
63055
60060
DEPTH (M)
0
100
200
300
400
500
5.5>
6
5.5
5
4
3
2
1
.5
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)

JULY
OXYGEN

OXYGEN (ML/L) OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	5.24	5.21	5.36	5.42	5.47	5.65	5.79	5.66	6.08
10	5.23	5.22	5.34	5.41	5.50	5.79	5.80	5.69	6.06
20	5.41	5.31	5.46	5.51	5.57	5.84	5.80	5.70	6.07
30	5.59	5.48	5.60	5.63	5.60	5.88	5.82	5.72	6.08
50	5.56	5.80	5.80	5.77	5.80	5.86	5.81	5.84	5.75
75	4.97	5.59	5.46	5.50	5.65	5.55	5.77	5.63	5.27
100	4.17	4.67	4.72	4.80	5.10	4.99	5.23	5.09	4.76
125	3.13	3.54	3.76	4.09	4.46	4.22	4.52	4.40	4.07
150	2.22	2.66	2.98	3.15	3.91	3.68	3.67	3.85	3.29
200	0.88	1.47	2.00	1.85	3.10	2.71	2.87	3.28	2.73
250	0.49	0.93	1.24	1.50	2.32	2.18	2.39	2.71	2.34
300	0.40	0.66	0.86	1.14	1.77	1.64	1.88	2.16	1.98
400	0.31	0.34	0.49	0.64	0.92	0.87	0.97	1.23	1.16
500	0.24	0.26	0.34	0.42	0.52	0.49	0.62	0.69	0.70


OFFSHORE SECTION
137060
130060
120060
110050
100070
90070
80080
70090
60090
0
100
200
300
400
500
DEPTH (M)
5.25
5.5
5.75
6
5
4
3
2
1
.5
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)

JULY
OXYGEN

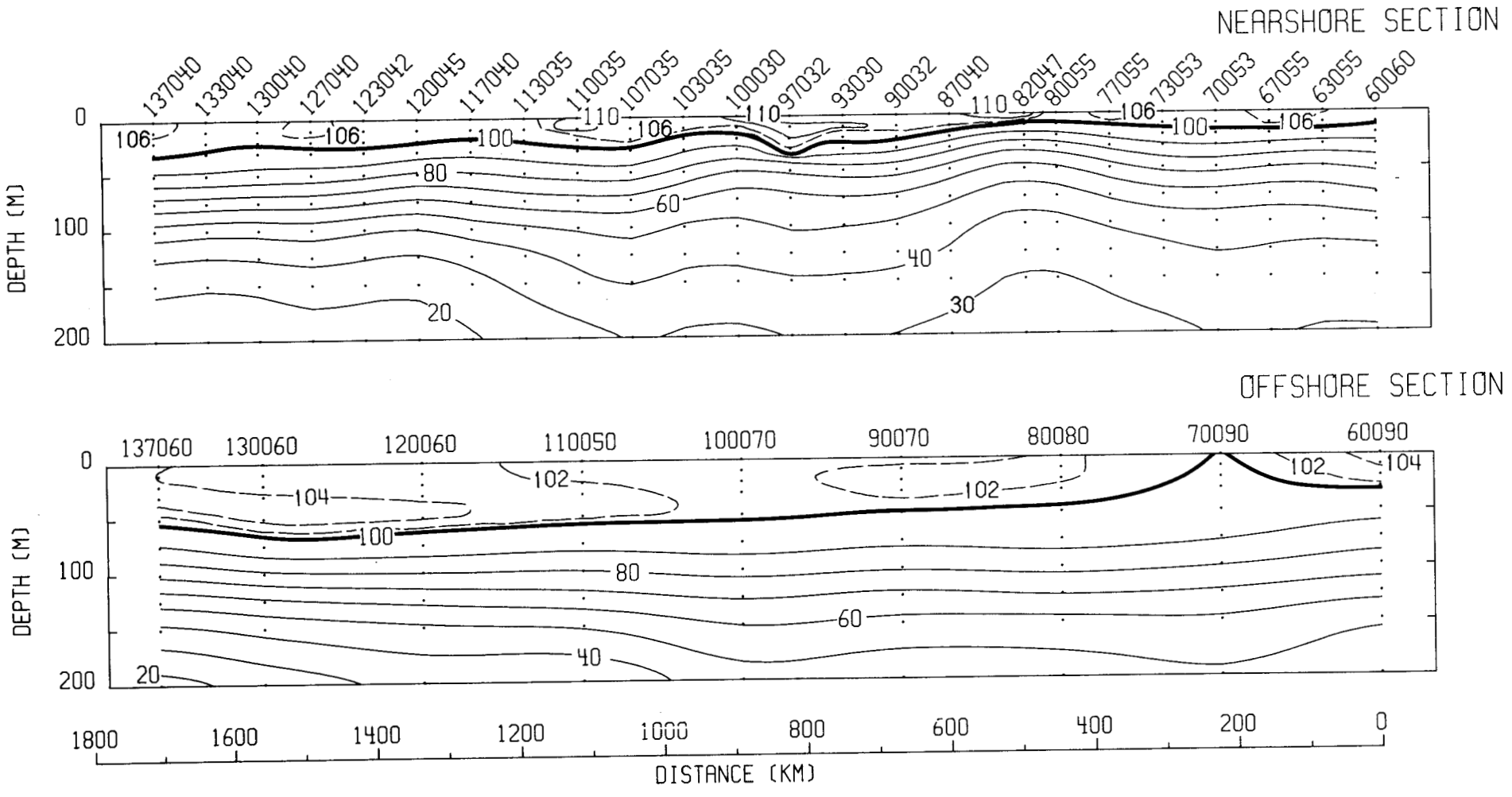
PERCENT OXYGEN SATURATION NEARSHORE LINE JULY

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	106.9	105.3	103.4	107.8	103.8	105.5	106.3	105.1	110.0	106.4	108.2	114.3
10	105.7	104.3	103.3	108.2	103.4	104.4	105.1	101.7	111.5	105.5	109.3	103.0
20	104.1	103.2	96.9	105.5	104.1	100.1	97.6	100.9	105.1	106.5	99.7	80.6
30	102.4	102.7	91.9	100.4	100.0	95.1	90.2	97.7	95.2	105.5	93.3	76.0
50	87.6	89.8	85.7	85.9	84.5	76.6	75.4	88.2	77.8	95.5	73.4	64.6
75	66.0	66.3	61.2	65.9	62.0	53.5	61.1	68.9	60.9	74.9	54.9	53.2
100	47.4	40.9	41.5	47.1	41.3	34.1	47.6	48.4	46.8	61.0	41.4	49.4
125	32.3	27.1	30.5	33.8	31.5	24.5	34.4	37.9	38.9	54.0	38.6	41.8
150	24.1	19.8	20.8	26.3	23.1	19.5	27.0	33.9	35.1	46.6	33.0	35.6
200	10.8	7.5	11.9	16.1	13.1	11.7	20.6	22.2	24.3	34.8	25.3	28.8
250	6.6	4.2	7.7	9.8	8.3	8.3	14.9	14.4	15.6	25.1	19.3	21.2
300	4.8	4.3	4.7	6.8	6.8	7.3	11.1	11.7	13.3	19.8	15.8	15.6
400	3.9	3.7	3.6	4.7	4.9	5.9	6.8	8.7	9.1	11.6	10.5	
500	3.1	3.3	3.0	4.0	4.2	4.5	5.3	5.8	6.0	7.6	8.1	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	109.4	105.0	107.4	109.2	116.6	101.2	107.1	105.4	102.1	108.2	106.7	103.7
10	113.4	110.4	109.5	107.7	98.2	98.6	105.3	103.2	101.0	107.6	103.7	102.2
20	112.3	100.9	105.1	96.4	78.8	86.4	93.5	99.1	95.9	99.3	95.0	95.4
30	108.8	92.3	98.1	85.6	65.0	77.2	80.9	92.4	89.9	90.9	82.6	89.8
50	71.4	74.3	75.6	67.2	49.8	58.4	64.1	76.4	72.5	72.0	62.9	77.0
75	57.2	60.2	57.1	53.9	40.1	44.7	51.2	57.2	55.9	54.9	52.3	62.1
100	51.6	49.9	48.6	45.8	32.9	37.3	41.1	45.7	46.5	44.4	43.7	48.6
125	50.5	43.2	43.4	41.5	29.2	33.0	34.4	36.8	43.0	38.5	36.9	39.2
150	40.3	37.8	38.1	37.3	26.4	29.7	32.3	32.8	39.4	33.5	32.8	33.7
200	30.0	30.0	29.1	29.0	20.3	24.5	26.6	26.8	32.0	29.3		29.5
250	23.0	22.7	23.3	20.1	16.4	20.2	23.2	23.4	25.5	24.2		24.2
300	18.3	17.9	18.4	15.0	13.3	17.2	19.8	19.0	19.8	19.8		20.8
400	12.5	11.5	12.2	9.8		11.7	12.3	11.6	12.5	12.7		14.8
500	8.8	7.6	7.5	6.8		8.4	8.7	7.3	8.7	8.0		8.9

PERCENT OXYGEN SATURATION OFFSHORE LINE JULY

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	104.6	102.2	102.3	101.7	100.5	101.2	102.3	99.2	105.0
10	103.7	102.3	101.3	101.2	100.7	103.3	102.2	99.6	104.2
20	105.1	102.7	103.0	102.1	101.3	103.8	102.1	99.4	103.2
30	106.1	104.2	103.9	103.1	101.1	103.5	101.8	99.0	101.5
50	101.8	106.5	104.2	102.3	101.8	100.3	99.4	98.3	93.4
75	87.9	99.0	96.7	93.5	96.0	92.2	95.2	91.9	84.0
100	70.5	79.1	80.6	79.2	84.4	80.9	83.7	80.9	74.8
125	51.2	57.7	62.2	65.7	71.7	66.6	71.1	68.7	63.1
150	35.9	42.9	48.2	49.8	61.3	56.9	56.8	59.3	50.4
200	14.2	23.1	32.6	28.8	47.4	41.2	43.7	49.6	41.0
250	7.8	14.1	20.1	23.1	35.0	32.6	35.8	40.3	34.8
300	6.3	10.1	13.7	17.4	26.3	24.3	28.0	31.8	29.1
400	4.7	5.1	7.2	9.5	13.4	12.6	14.1	17.7	16.6
500	3.5	3.7	4.9	6.1	7.4	7.0	9.0	9.7	9.9

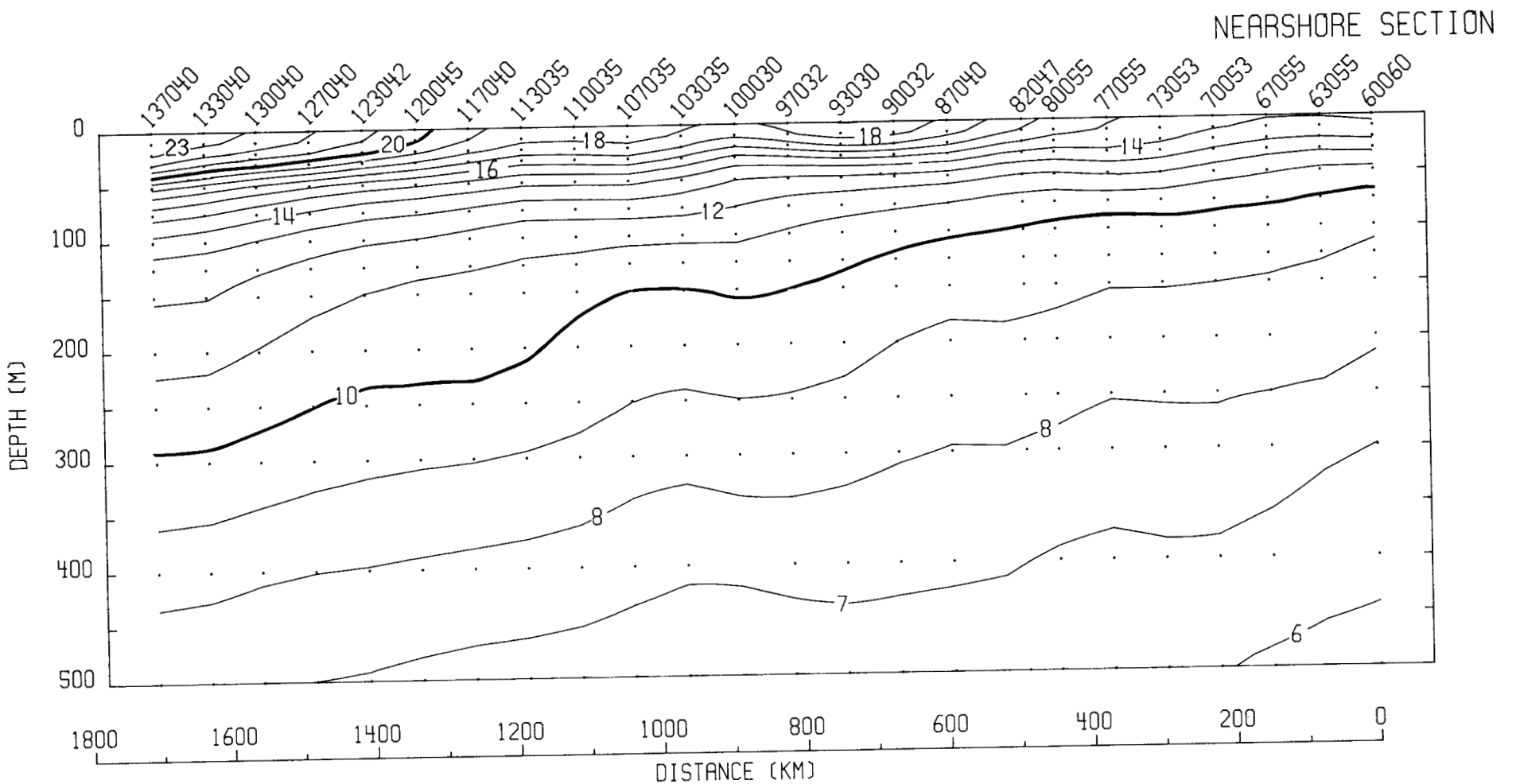


JULY
PERCENT OXYGEN SATURATION

TEMPERATURE (DEG. C) NEARSHORE LINE OCTOBER

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	24.07	24.08	23.20	22.37	21.22	20.67	19.06	18.38	18.44	18.48	18.70	17.18
10	24.07	23.87	23.11	22.31	21.16	20.60	18.95	18.19	18.38	18.42	18.70	16.29
20	23.87	22.55	22.25	21.63	19.89	19.87	18.12	17.21	17.92	18.00	18.04	14.53
30	23.62	20.79	20.71	20.05	18.50	18.19	17.19	15.77	16.66	16.96	16.39	13.52
50	18.63	17.81	16.74	16.01	15.11	15.19	14.69	13.74	14.39	14.26	13.86	12.54
75	15.97	15.46	14.30	13.85	13.09	13.21	12.81	12.05	12.69	12.31	12.55	12.06
100	13.73	13.57	12.95	12.42	12.11	11.97	11.86	11.07	11.77	11.14	11.12	11.54
125	12.45	12.51	12.08	11.76	11.46	11.08	11.24	10.76	11.02	10.48	10.27	11.08
150	12.01	12.23	11.72	11.24	11.02	10.73	10.94	10.42	10.42	9.87	9.80	10.46
200	11.27	11.48	10.90	10.59	10.21	10.50	10.51	10.17	9.78	9.17	9.16	9.85
250	10.53	10.65	10.22	10.10	9.73	9.89	9.84	9.49	9.44	8.96	8.76	9.26
300	9.84	9.84	9.61	9.34	9.25	9.10	9.16	8.81	8.90	8.40	8.03	8.73
400	8.38	8.36	8.10	7.97	8.00	7.82	7.78	7.60	7.62	7.32	7.02	
500	7.15	7.14	6.97	6.98	6.96	6.75	6.63	6.57	6.53	6.43	6.29	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	19.20	19.02	19.18	17.54	17.19	15.62	15.19	14.96	14.36	14.27	14.05	14.55
10	18.90	18.85	19.12	17.36	16.75	15.03	15.03	14.69	14.02	14.17	13.64	14.33
20	17.57	17.28	17.41	16.39	15.19	14.22	14.76	14.41	13.54	13.61	12.52	13.61
30	15.56	14.95	15.30	15.19	13.87	13.21	14.37	13.68	12.92	12.84	11.69	12.56
50	13.12	12.59	12.66	12.57	12.00	11.35	12.42	12.07	11.32	11.33	10.42	10.65
75	11.65	11.33	11.23	10.82	10.64	10.31	10.41	10.52	10.12	10.16	9.92	9.59
100	10.77	10.52	10.36	9.99	10.09	9.79	9.50	9.89	9.68	9.51	9.64	8.97
125	10.18	10.18	9.92	9.54	9.76	9.45	9.19	9.41	9.38	9.12	9.30	8.60
150	9.81	9.94	9.55	9.16	9.52	9.21	8.93	9.13	9.12	8.89	8.97	8.32
200	9.32	9.43	9.01	8.58	9.03	8.70	8.49	8.60	8.75	8.38		7.86
250	8.80	8.95	8.61	8.14	8.57	8.25	7.91	8.13	8.25	7.88		7.38
300	8.33	8.37	8.12	7.81	8.11	7.82	7.45	7.66	7.85	7.44		6.86
400	7.27	7.33	7.28	7.06		6.79	6.68	6.94	6.90	6.58		6.20
500	6.44	6.49	6.50	6.36		6.12	6.03	6.10	6.11	5.82		5.60

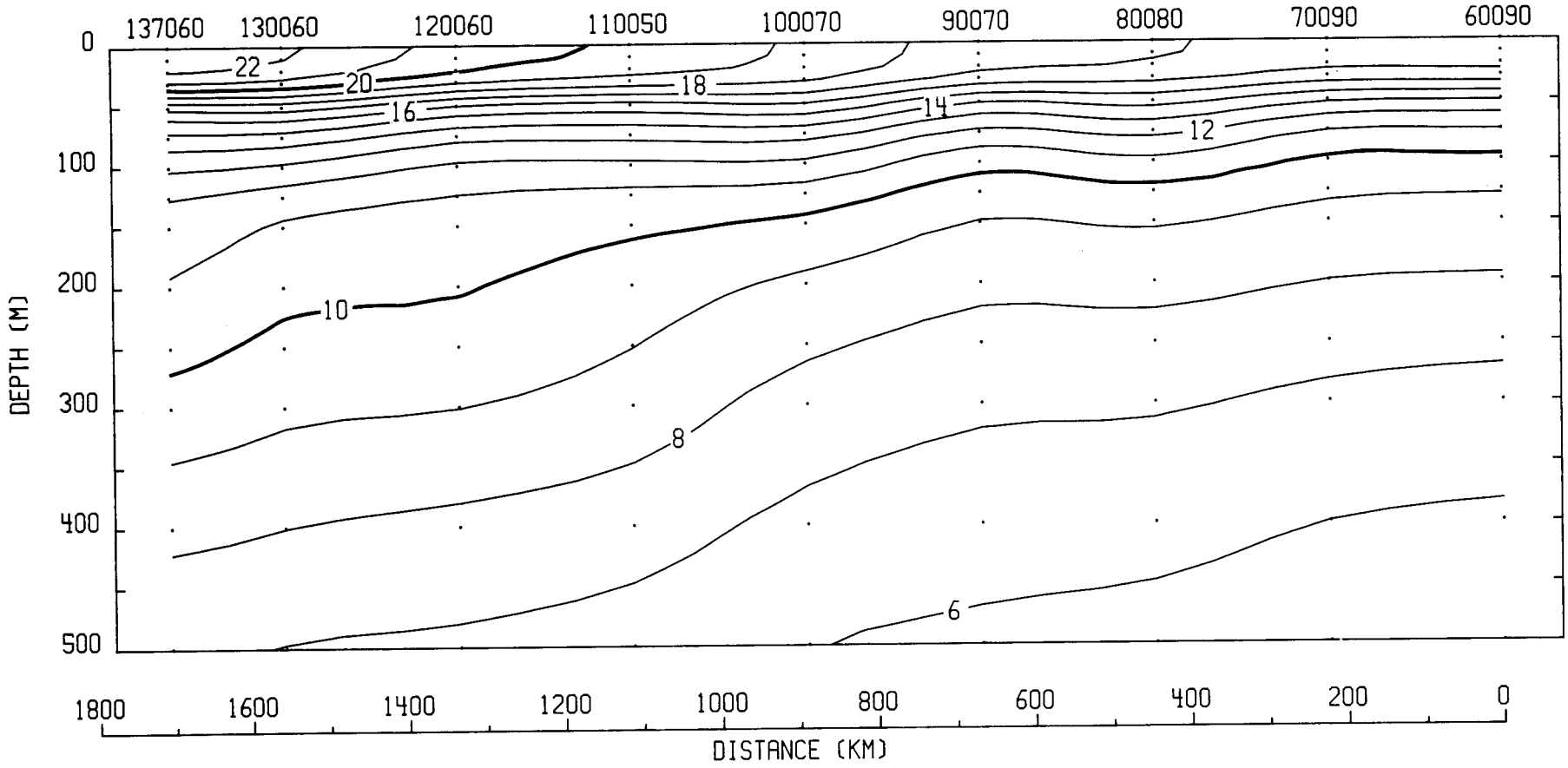


OCTOBER
TEMPERATURE

TEMPERATURE (DEG. C) OFFSHORE LINE OCTOBER

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	23.13	22.39	20.65	20.06	18.89	17.43	17.16	16.52	16.60
10	22.96	22.28	20.62	20.03	18.86	17.35	17.15	16.63	16.53
20	22.49	21.86	20.13	19.84	18.79	17.19	17.06	16.06	16.28
30	21.63	21.25	19.35	19.39	18.51	16.83	16.57	15.44	15.96
50	17.10	17.54	15.70	15.66	16.40	13.55	14.59	12.71	13.12
75	14.78	14.61	13.13	13.21	13.62	11.44	12.44	10.67	10.96
100	13.21	12.85	11.69	11.74	11.95	10.05	10.95	9.70	9.93
125	12.09	11.41	10.92	10.71	10.63	9.29	9.82	9.13	9.06
150	11.62	10.75	10.56	10.19	9.80	8.86	9.14	8.66	8.60
200	11.05	10.17	10.18	9.46	8.79	8.15	8.35	8.04	7.91
250	10.42	9.62	9.74	9.05	8.13	7.63	7.66	7.44	7.23
300	9.72	9.15	9.09	8.58	7.52	7.12	7.13	6.93	6.60
400	8.31	7.98	7.79	7.46	6.69	6.37	6.33	6.15	5.85
500	7.15	6.92	6.86	6.56	5.98	5.78	5.69	5.55	5.32

OFFSHORE SECTION

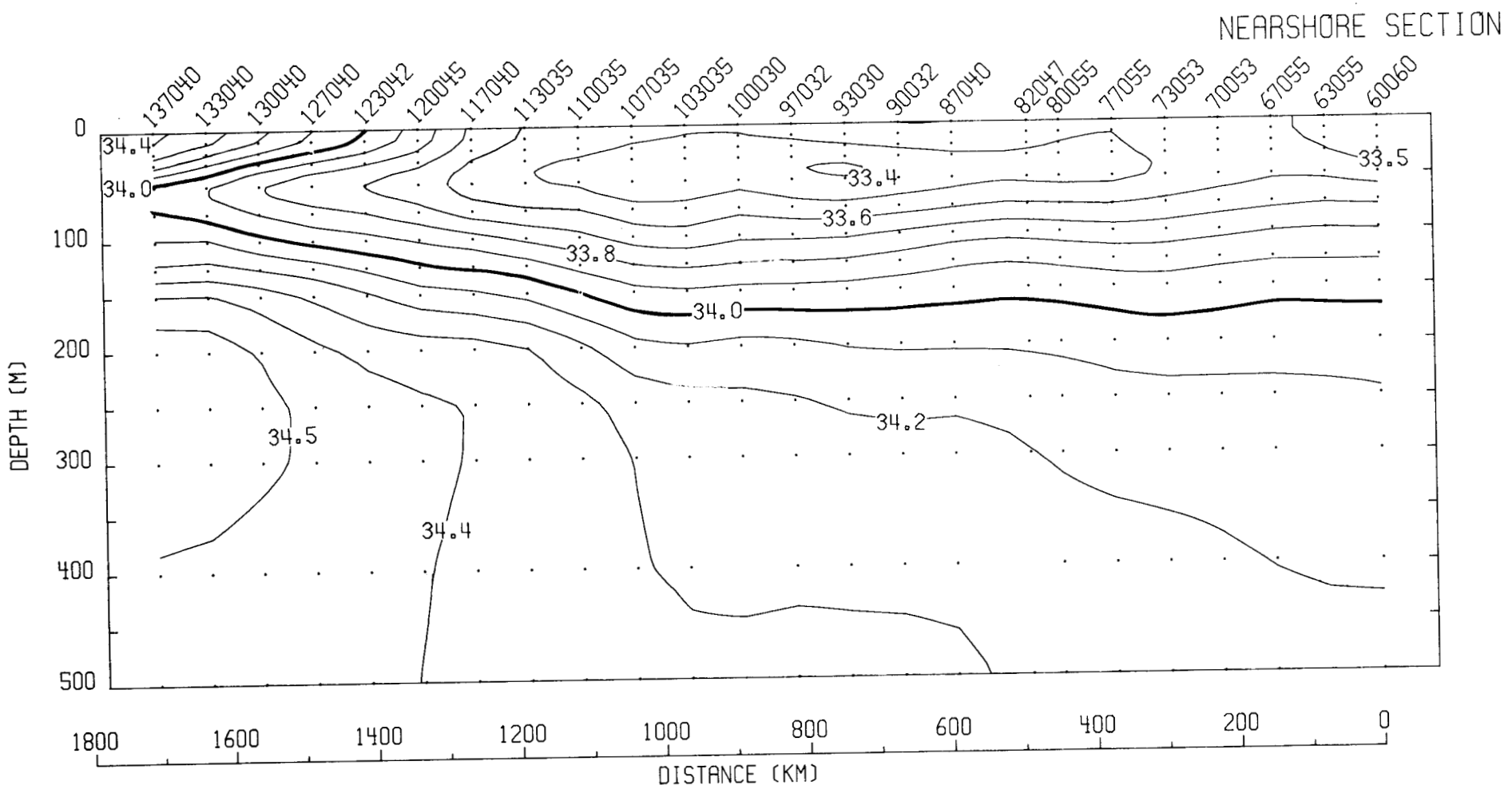


OCTOBER
TEMPERATURE

SALINITY (PPT) NEARSHORE LINE OCTOBER

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	34.46	34.41	34.26	34.15	34.02	33.94	33.60	33.60	33.59	33.50	33.53	33.50
10	34.46	34.40	34.25	34.14	33.99	33.94	33.61	33.60	33.59	33.50	33.52	33.47
20	34.44	34.22	34.16	34.02	33.89	33.90	33.57	33.54	33.58	33.46	33.48	33.45
30	34.42	34.09	34.03	33.87	33.80	33.77	33.54	33.49	33.51	33.41	33.43	33.46
50	33.94	33.92	33.77	33.72	33.67	33.67	33.51	33.49	33.54	33.33	33.39	33.55
75	34.03	34.04	33.88	33.85	33.83	33.76	33.62	33.57	33.67	33.51	33.49	33.66
100	34.08	34.15	33.99	33.99	33.98	33.87	33.89	33.75	33.76	33.64	33.56	33.76
125	34.18	34.24	34.16	34.19	34.11	33.96	34.03	33.97	33.86	33.81	33.73	33.84
150	34.39	34.45	34.35	34.29	34.24	34.12	34.14	34.10	33.98	33.92	33.88	33.96
200	34.55	34.58	34.47	34.46	34.34	34.39	34.33	34.35	34.21	34.11	34.09	34.16
250	34.57	34.59	34.50	34.51	34.42	34.44	34.39	34.38	34.32	34.26	34.20	34.24
300	34.55	34.54	34.51	34.49	34.45	34.42	34.40	34.38	34.36	34.31	34.21	34.27
400	34.48	34.47	34.45	34.44	34.43	34.40	34.38	34.36	34.34	34.31	34.27	
500	34.44	34.45	34.44	34.44	34.41	34.40	34.38	34.37	34.35	34.33	34.32	

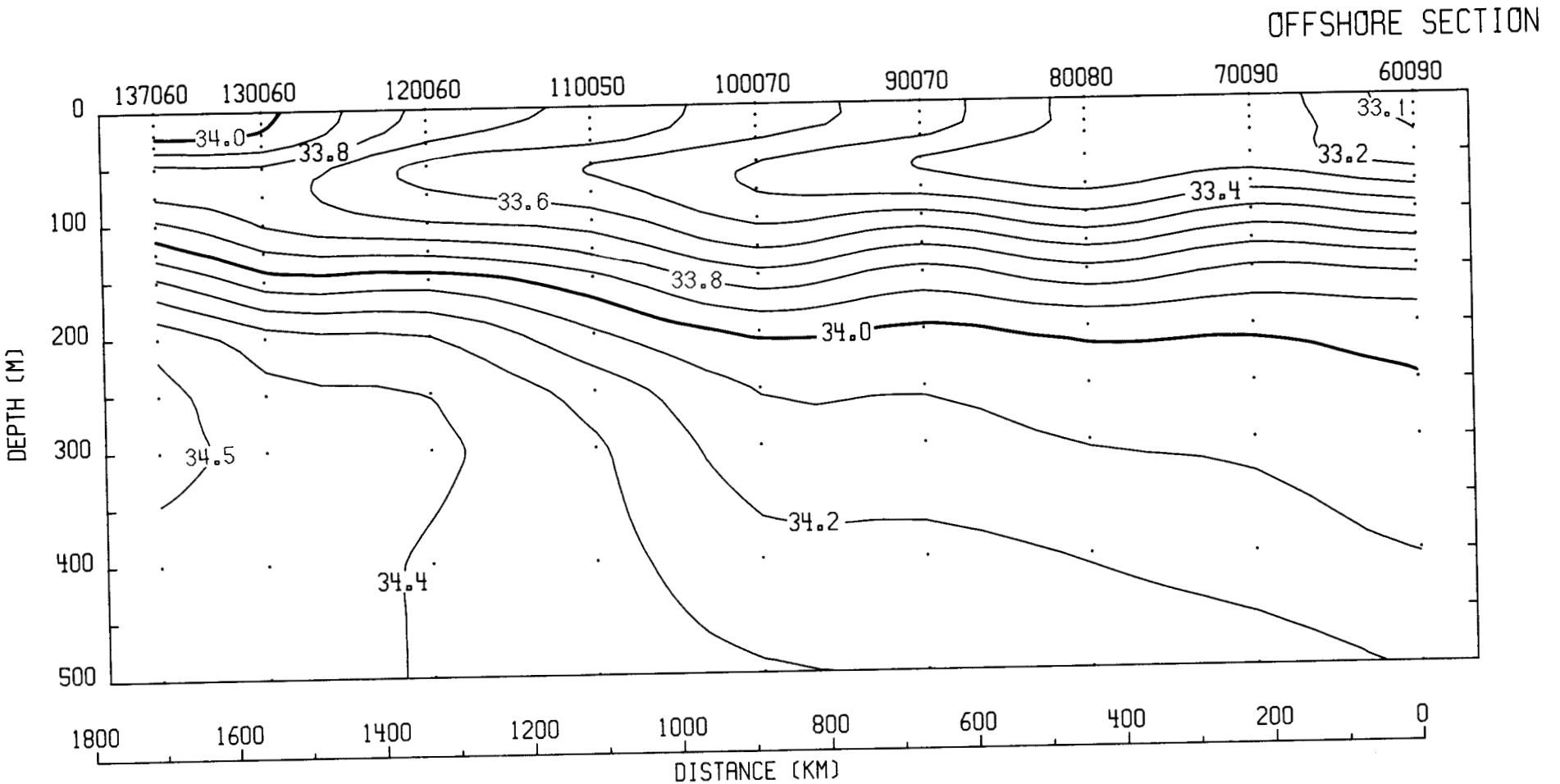
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	33.55	33.58	33.62	33.61	33.57	33.52	33.46	33.54	33.55	33.49	33.47	33.37
10	33.53	33.56	33.61	33.61	33.55	33.53	33.46	33.57	33.54	33.49	33.48	33.40
20	33.48	33.50	33.53	33.57	33.51	33.51	33.47	33.53	33.54	33.53	33.52	33.40
30	33.39	33.38	33.42	33.50	33.47	33.50	33.47	33.53	33.56	33.55	33.51	33.40
50	33.37	33.40	33.42	33.45	33.49	33.44	33.45	33.50	33.57	33.58	33.61	33.50
75	33.49	33.54	33.56	33.56	33.64	33.60	33.58	33.62	33.65	33.64	33.72	33.66
100	33.62	33.71	33.71	33.76	33.79	33.74	33.74	33.73	33.77	33.80	33.82	33.79
125	33.77	33.84	33.83	33.89	33.91	33.87	33.86	33.85	33.87	33.90	33.88	33.90
150	33.90	33.95	33.95	33.96	33.98	33.97	33.94	33.92	33.94	33.99	33.95	33.97
200	34.12	34.09	34.10	34.09	34.10	34.07	34.07	34.04	34.05	34.06		34.05
250	34.21	34.18	34.18	34.19	34.19	34.15	34.13	34.12	34.14	34.11		34.09
300	34.25	34.24	34.23	34.23	34.22	34.19	34.18	34.15	34.19	34.15		34.12
400	34.29	34.28	34.28	34.29		34.23	34.25	34.22	34.21	34.19		34.18
500	34.33	34.34	34.31	34.34		34.27	34.30	34.28	34.25	34.22		34.23



OCTOBER
SALINITY

SALINITY (PPT) OFFSHORE LINE OCTOBER

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	34.09	34.06	33.77	33.70	33.54	33.48	33.25	33.29	32.99
10	34.09	34.06	33.76	33.68	33.54	33.47	33.24	33.28	33.00
20	34.05	34.04	33.75	33.68	33.54	33.48	33.25	33.30	33.03
30	34.02	34.00	33.70	33.66	33.50	33.44	33.26	33.32	33.04
50	33.76	33.80	33.54	33.47	33.39	33.27	33.18	33.29	33.05
75	33.80	33.74	33.62	33.54	33.38	33.34	33.24	33.45	33.20
100	33.96	33.77	33.71	33.66	33.44	33.56	33.37	33.61	33.38
125	34.10	33.89	33.90	33.78	33.55	33.72	33.54	33.74	33.52
150	34.26	34.02	34.09	33.94	33.70	33.87	33.70	33.86	33.74
200	34.51	34.33	34.34	34.11	33.97	34.03	33.97	33.99	33.94
250	34.55	34.42	34.42	34.26	34.08	34.11	34.05	34.06	33.99
300	34.53	34.46	34.43	34.32	34.13	34.15	34.09	34.09	34.01
400	34.48	34.45	34.39	34.34	34.22	34.24	34.19	34.15	34.09
500	34.46	34.43	34.40	34.35	34.31	34.30	34.26	34.24	34.19

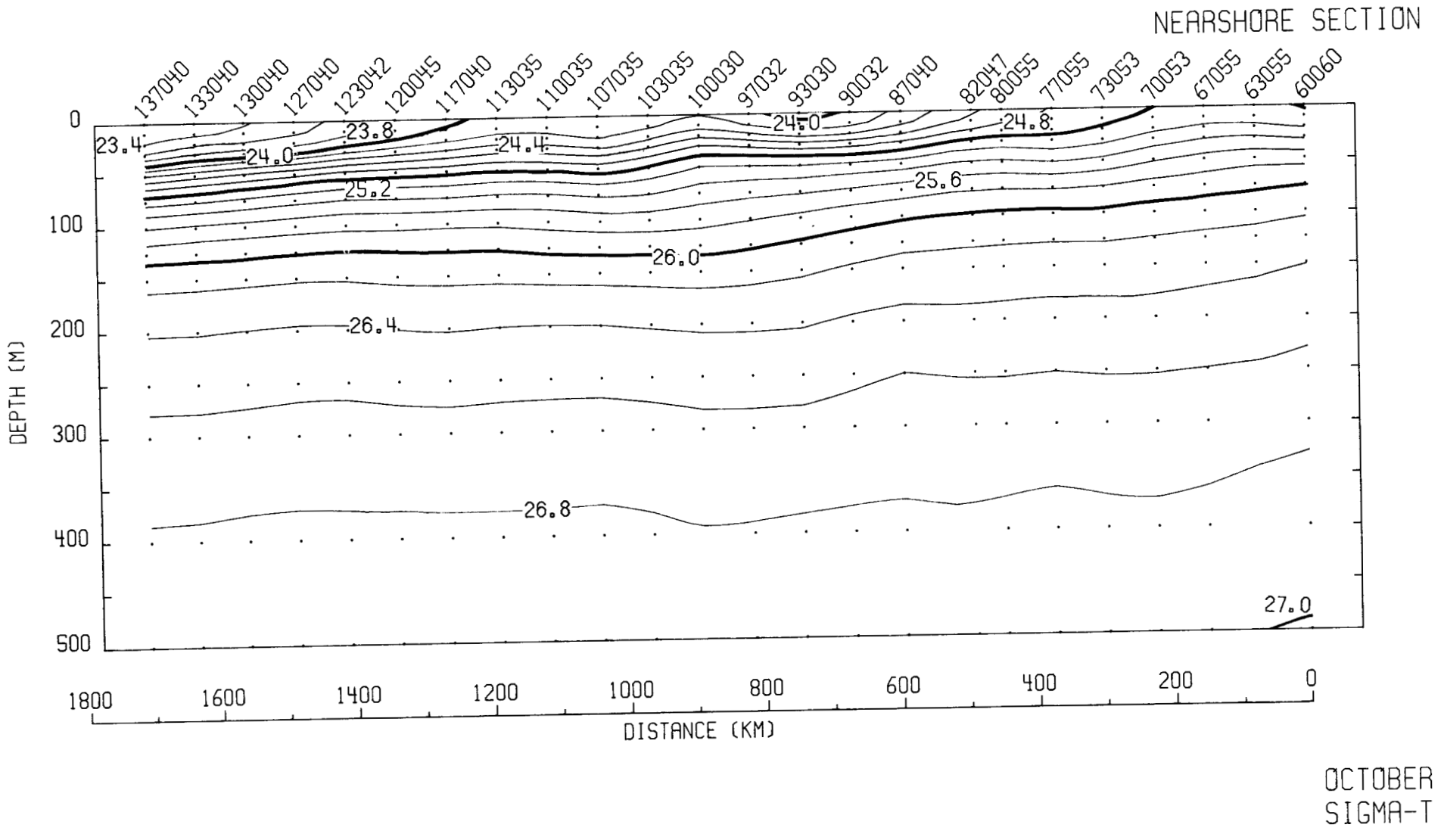


OCTOBER
SALINITY

SIGMA-T NEARSHORE LINE OCTOBER

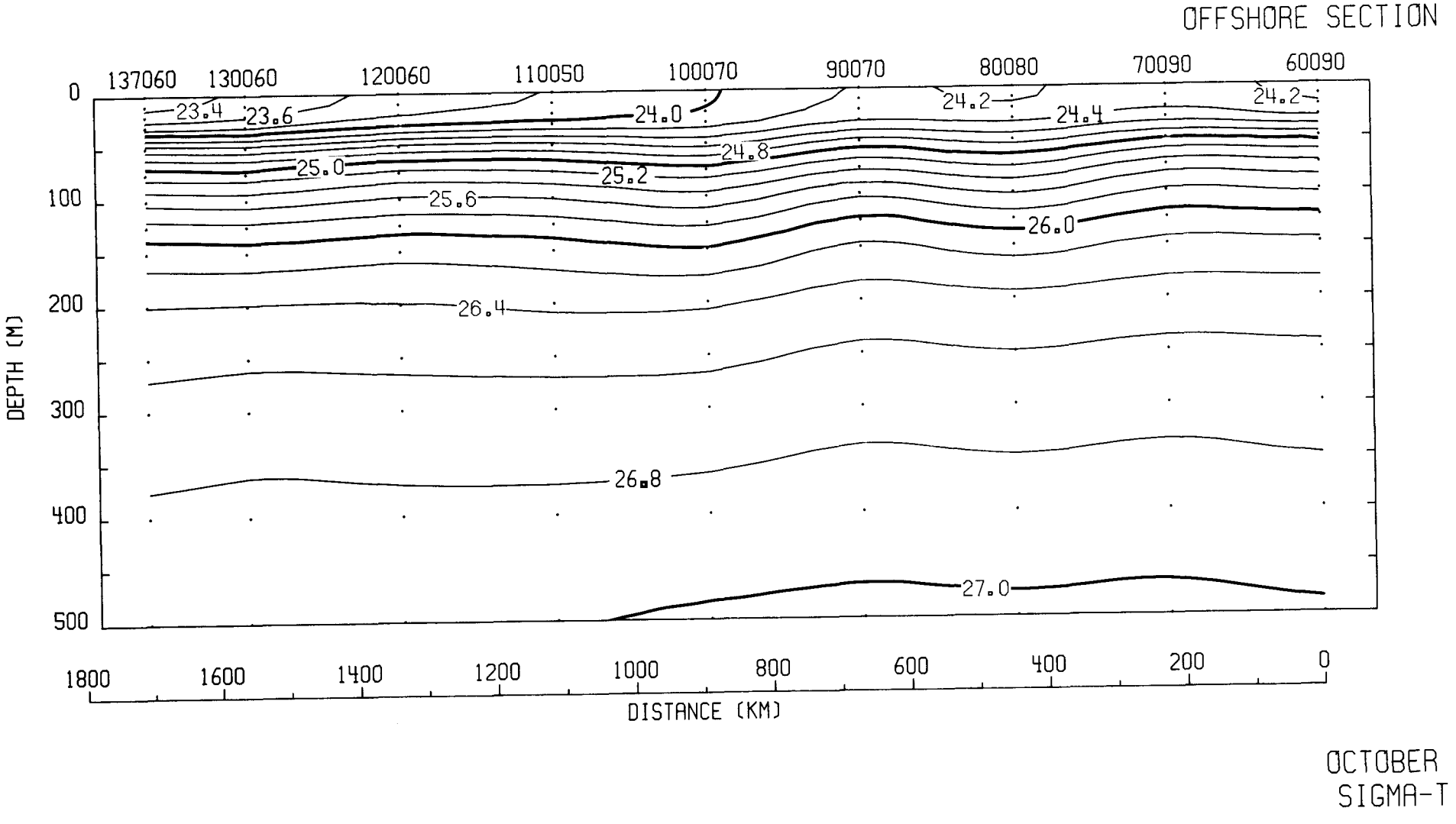
DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	23.22	23.18	23.34	23.48	23.69	23.83	23.94	24.11	24.06	24.03	24.00	24.32
10	23.22	23.24	23.33	23.49	23.69	23.80	23.98	24.15	24.11	24.02	23.98	24.51
20	23.26	23.48	23.51	23.58	23.94	23.96	24.15	24.35	24.22	24.10	24.11	24.88
30	23.32	23.84	23.82	23.89	24.23	24.27	24.35	24.64	24.46	24.31	24.45	25.11
50	24.30	24.48	24.63	24.77	24.94	24.91	24.90	25.08	24.99	24.86	24.97	25.37
75	25.02	25.14	25.27	25.34	25.48	25.40	25.38	25.48	25.44	25.39	25.32	25.55
100	25.55	25.64	25.63	25.74	25.79	25.73	25.77	25.81	25.69	25.71	25.65	25.73
125	25.88	25.92	25.94	26.02	26.02	25.97	26.00	26.04	25.90	25.95	25.93	25.87
150	26.13	26.13	26.15	26.20	26.20	26.15	26.14	26.20	26.10	26.15	26.13	26.08
200	26.39	26.38	26.40	26.44	26.41	26.41	26.36	26.44	26.39	26.42	26.40	26.34
250	26.54	26.54	26.54	26.57	26.57	26.55	26.52	26.57	26.54	26.56	26.55	26.50
300	26.65	26.64	26.66	26.68	26.67	26.67	26.64	26.68	26.65	26.69	26.67	26.61
400	26.83	26.83	26.85	26.86	26.84	26.85	26.84	26.85	26.83	26.85	26.86	
500	26.98	26.98	27.00	27.00	26.98	27.00	27.00	26.99	26.99	26.99	27.00	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	23.88	23.95	23.90	24.33	24.38	24.71	24.79	24.87	25.01	25.03	25.09	24.87
10	23.94	23.98	23.93	24.37	24.47	24.85	24.80	24.95	25.07	25.00	25.11	24.90
20	24.23	24.31	24.30	24.56	24.78	25.00	24.86	24.98	25.17	25.19	25.38	25.07
30	24.61	24.75	24.70	24.79	25.04	25.20	24.93	25.13	25.31	25.35	25.52	25.27
50	25.12	25.25	25.25	25.29	25.43	25.51	25.30	25.43	25.62	25.63	25.80	25.71
75	25.50	25.60	25.63	25.70	25.80	25.83	25.79	25.81	25.90	25.88	25.98	26.00
100	25.76	25.88	25.91	26.01	26.01	26.02	26.07	27.00	26.07	26.11	26.11	26.20
125	25.98	26.03	26.07	26.18	26.16	26.18	26.21	26.17	26.20	26.26	26.21	26.34
150	26.14	26.16	26.23	26.30	26.25	26.30	26.32	26.28	26.29	26.37	26.32	26.44
200	26.40	26.36	26.43	26.49	26.42	26.46	26.48	26.45	26.43	26.50		26.57
250	26.55	26.51	26.56	26.64	26.57	26.59	26.62	26.58	26.58	26.62		26.67
300	26.66	26.64	26.67	26.72	26.66	26.68	26.72	26.68	26.68	26.70		26.77
400	26.84	26.83	26.83	26.87		26.86	26.88	26.84	26.83	26.86		26.90
500	26.99	26.99	26.97	27.01		26.98	27.02	26.00	26.96	26.98		27.02


NEARSHORE SECTION
137040
133040
130040
127040
123042
120045
117040
113035
110035
107035
103035
100030
97032
93030
90032
87040
82047
80055
77055
73053
70053
67055
63055
60060
23.4
23.8
24.0
24.4
24.0
24.8
25.2
25.6
26.0
26.4
26.8
27.0
DEPTH (M)
0
100
200
300
400
500
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)
OCTOBER
SIGMA-T

SIGMA-T OFFSHORE LINE OCTOBER

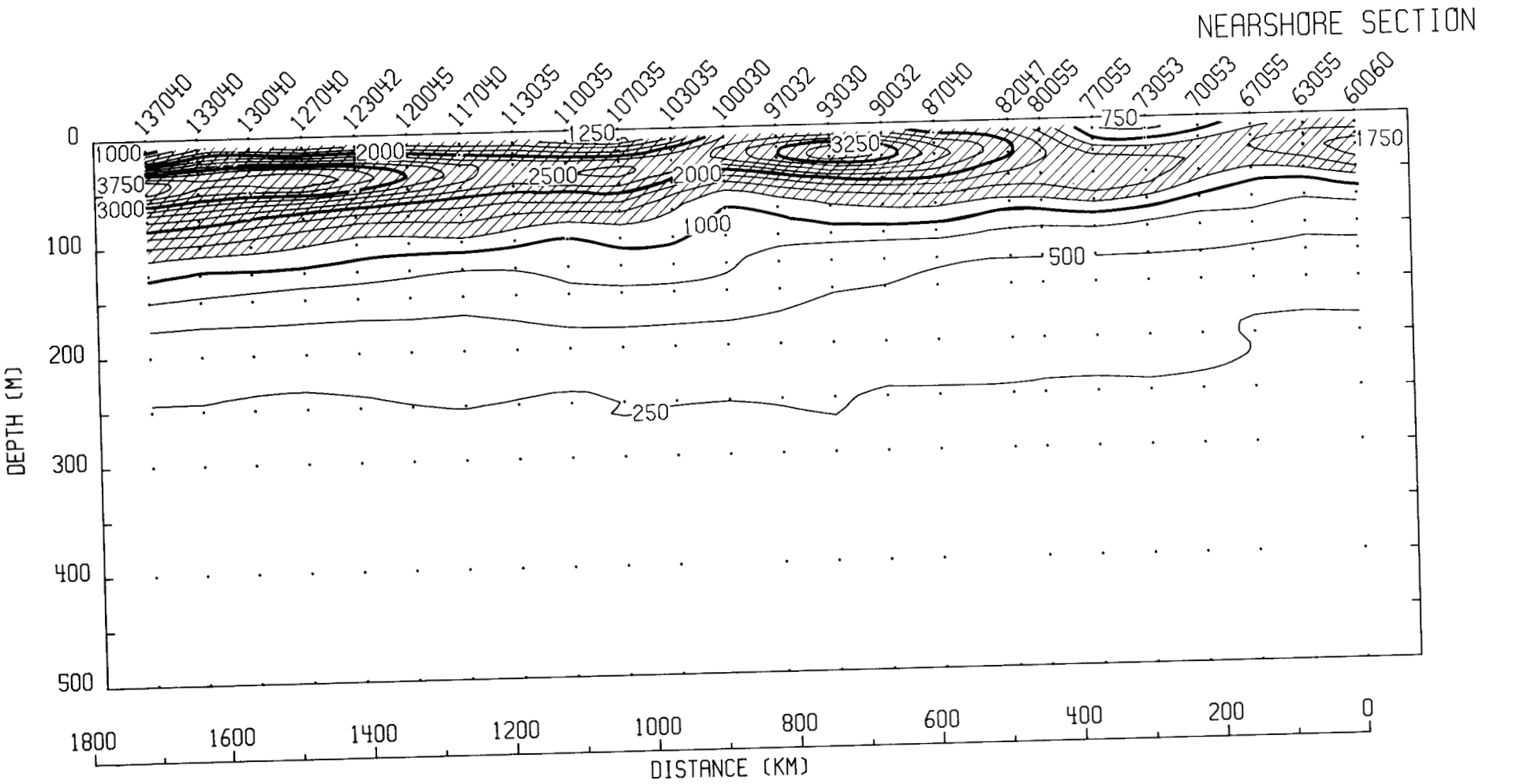
DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	23.22	23.43	23.67	23.76	23.95	24.26	24.15	24.33	24.09
10	23.27	23.44	23.67	23.77	23.96	24.28	24.14	24.34	24.11
20	23.38	23.54	23.78	23.81	23.98	24.32	24.18	24.45	24.19
30	23.59	23.68	23.95	23.91	24.02	24.37	24.29	24.57	24.23
50	24.55	24.46	24.71	24.66	24.43	24.95	24.66	25.12	24.82
75	25.10	25.09	25.32	25.24	25.03	25.42	25.15	25.63	25.36
100	25.56	25.48	25.66	25.62	25.40	25.84	25.53	25.92	25.70
125	25.89	25.85	25.95	25.90	25.73	26.09	25.86	26.12	25.96
150	26.11	26.08	26.16	26.11	25.99	26.28	26.10	26.29	26.20
200	26.40	26.42	26.43	26.36	26.36	26.51	26.43	26.49	26.47
250	26.55	26.58	26.56	26.55	26.55	26.65	26.60	26.63	26.61
300	26.66	26.69	26.68	26.67	26.68	26.75	26.70	26.73	26.71
400	26.84	26.87	26.85	26.85	26.87	26.92	26.89	26.89	26.86
500	26.99	27.00	26.98	26.99	27.03	27.05	27.03	27.02	27.01


OFFSHORE SECTION
137060
130060
120060
110050
100070
90070
80080
70090
60090
23.4
23.6
24.0
24.2
24.4
24.8
25.0
25.2
25.6
26.0
26.4
26.8
27.0
DEPTH (M)
0
100
200
300
400
500
1800
1600
1400
1200
1000
800
600
400
200
0
DISTANCE (KM)
OCTOBER
SIGMA-T

STABILITY (10E-8/M) NEARSHORE LINE OCTOBER

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0												
10	214	1508	829	525	1244	649	1031	1178	767	361	531	2810
20	492	3016	2449	2020	2723	2349	1862	2457	1753	1427	2343	2988
30	2477	3447	3601	3733	3232	3227	2378	2656	2549	2387	3131	1890
50	4368	2936	3480	3564	3005	2661	2428	1866	2337	2559	1982	953
75	2401	2350	1924	1822	1624	1570	1717	1444	1351	1688	1300	677
100	1691	1530	1290	1324	1019	1103	1244	1115	848	1080	1252	612
125	1126	946	1030	899	810	836	698	768	836	866	951	714
150	794	704	697	614	595	655	493	577	742	699	677	747
200	362	364	345	348	346	368	382	351	404	379	400	392
250	232	245	236	215	244	236	270	224	242	254	246	256
300	194	190	217	206	182	213	213	196	210	215	208	
400	168	172	169	156	155	163	181	153	160	141	170	
500												

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0												
10	1757	1836	1989	1149	2024	1454	349	524	841	816	1433	993
20	3378	3889	3835	2091	2858	1750	691	901	1200	1744	2080	1875
30	3372	3664	3557	2391	2322	1846	1164	1531	1445	1534	1457	2174
50	1966	1824	2101	2158	1720	1417	2051	1563	1410	1191	1083	1747
75	1222	1202	1258	1416	1142	1009	1569	1136	871	943	577	916
100	956	854	853	950	696	689	793	696	566	785	441	663
125	750	541	624	555	480	544	470	547	440	499	411	463
150	590	468	546	416	347	400	378	371	331	345		324
200	396	333	301	345	325	276	293	302	282	233		223
250	241	278	223	223	241	217	235	228	248	198		191
300	199	236	199	139		181	186	174	175	166		169
400	162	165	143	147		157	142	151	136	137		119
500												

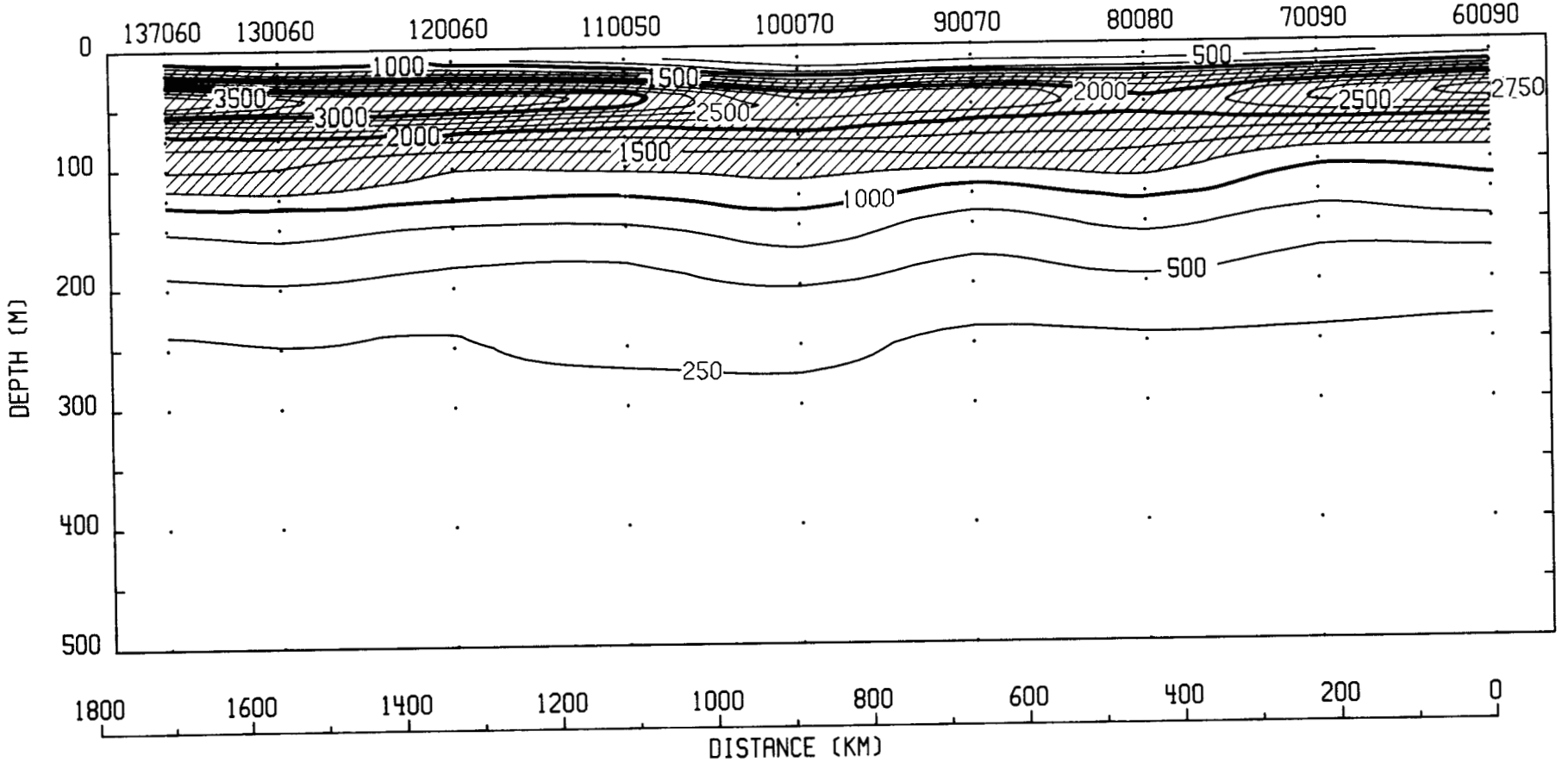


OCTOBER
STABILITY

STABILITY (10E-8/M) OFFSHORE LINE OCTOBER

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0									
10	755	523	569	253	150	319	131	568	506
20	1616	1203	1384	711	307	466	704	1162	640
30	3403	2522	2608	2205	1075	1537	1408	1928	1541
50	3812	3537	3416	3365	2406	2650	2019	2606	2826
75	1870	1949	1826	1841	1985	1740	1765	1566	1710
100	1583	1493	1221	1276	1356	1347	1410	929	1157
125	1077	1191	1002	974	1167	842	1125	735	997
150	753	803	707	706	936	617	840	560	792
200	410	478	366	409	536	346	472	304	361
250	225	245	227	297	279	221	235	230	222
300	194	202	203	204	220	190	201	175	180
400	165	151	146	156	169	148	165	144	142
500									

OFFSHORE SECTION

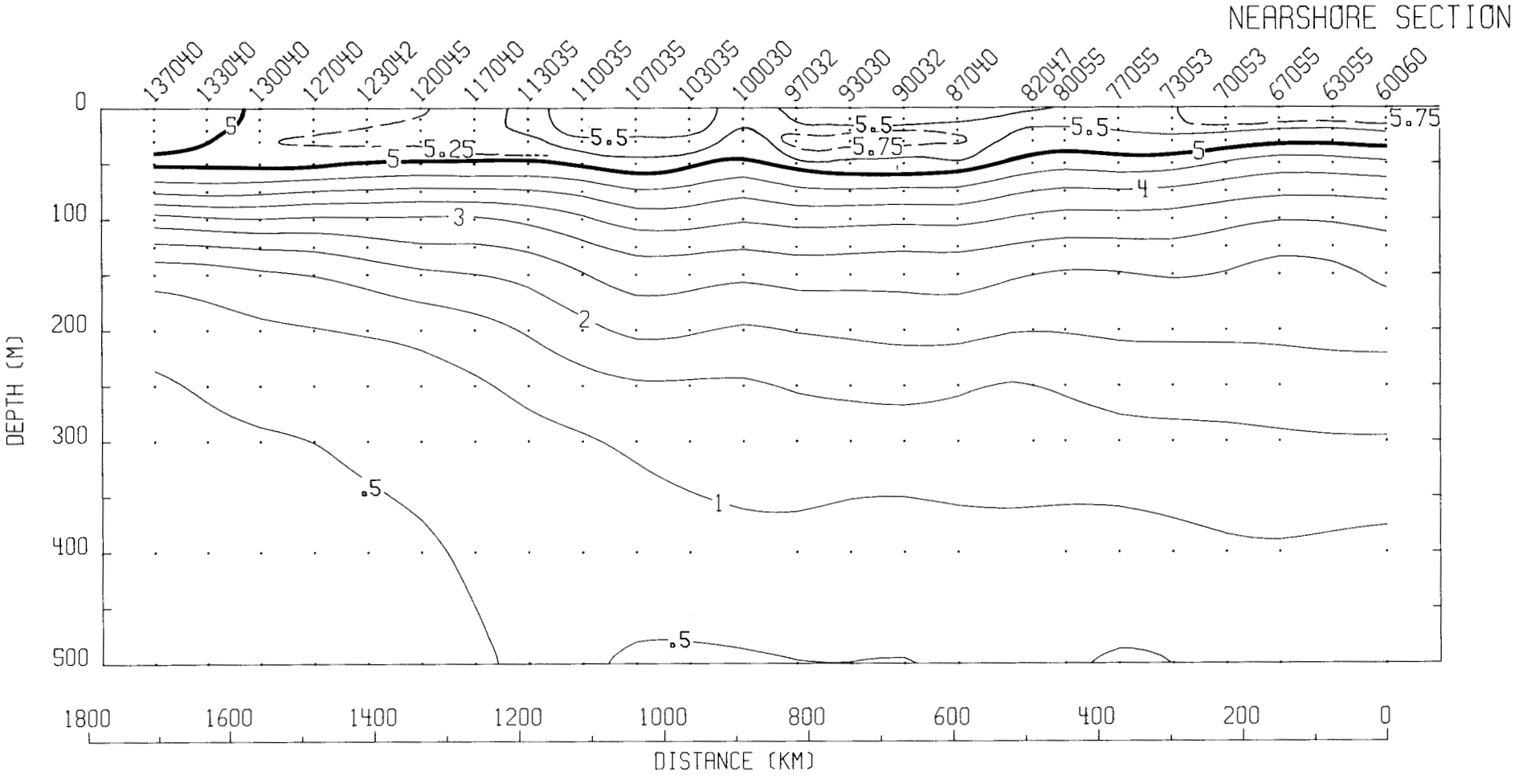


OCTOBER
STABILITY

OXYGEN (ML/L) NEARSHORE LINE OCTOBER

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	4.76	4.92	5.08	5.08	5.09	5.21	5.37	5.65	5.37	5.23	5.36	5.69
10	4.79	4.94	5.01	5.07	5.08	5.27	5.39	5.56	5.39	5.32	5.37	5.70
20	4.75	4.98	5.11	5.14	5.28	5.36	5.51	5.63	5.42	5.46	5.46	5.41
30	4.79	4.94	5.25	5.33	5.41	5.38	5.46	5.20	5.60	5.58	5.55	5.06
50	5.19	5.11	5.22	5.18	5.06	4.72	5.22	4.76	5.01	5.48	5.47	4.12
75	3.95	4.37	4.08	3.88	3.99	3.73	3.89	3.90	3.95	4.54	4.59	3.54
100	2.64	2.85	3.07	2.75	2.93	2.93	2.65	3.20	3.27	3.81	4.00	3.07
125	1.91	1.76	2.17	1.86	2.34	2.55	2.38	2.48	2.93	3.08	3.33	2.66
150	1.15	1.14	1.50	1.38	1.68	1.90	1.99	2.01	2.52	2.79	2.85	2.24
200	0.61	0.68	1.01	0.85	1.14	1.00	1.33	1.51	1.83	2.21	2.16	1.69
250	0.42	0.50	0.76	0.58	0.76	0.73	0.93	1.12	1.32	1.45	1.48	1.29
300	0.33	0.37	0.48	0.46	0.59	0.63	0.74	0.82	0.95	1.05	1.26	1.13
400	0.26	0.31	0.33	0.35	0.39	0.38	0.60	0.69	0.67	0.65	0.74	
500	0.26	0.23	0.25	0.21	0.30	0.26	0.39	0.69	0.49	0.46	0.43	

DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	5.46	5.33	5.49	5.40	5.47	5.77	5.59	5.72	5.93	5.90	5.78	5.79
10	5.50	5.41	5.50	5.47	5.74	5.70	5.59	5.72	5.99	5.96	5.80	5.84
20	5.63	5.73	5.78	5.64	5.43	5.37	5.57	5.59	5.70	5.45	5.40	5.68
30	5.83	5.98	5.91	5.82	5.24	5.07	5.49	5.36	5.32	4.92	5.00	5.41
50	5.71	5.32	5.28	5.56	4.77	4.51	4.94	4.80	4.36	4.16	4.23	4.42
75	4.82	4.30	4.21	4.71	3.83	3.92	3.93	3.95	3.66	3.64	3.54	3.73
100	4.05	3.45	3.57	3.81	3.34	3.33	3.30	3.42	3.11	2.98	3.00	3.21
125	3.46	2.96	3.04	3.17	2.89	2.86	2.84	2.96	2.80	2.50	2.64	2.95
150	3.01	2.49	2.68	2.82	2.48	2.41	2.40	2.59	2.53	2.22	2.27	2.70
200	2.20	1.99	2.14	2.32	1.83	2.14	2.00	2.15	2.06	2.09		2.19
250	1.65	1.55	1.63	1.69	1.23	1.68	1.70	1.69	1.70	1.81		1.76
300	1.33	1.22	1.25	1.37	1.02	1.26	1.31	1.43	1.35	1.45		1.48
400	0.89	0.75	0.71	0.78		0.82	0.73	0.84	0.95	0.97		0.83
500	0.48	0.52	0.44	0.55		0.57	0.40	0.46	0.64	0.68		0.56

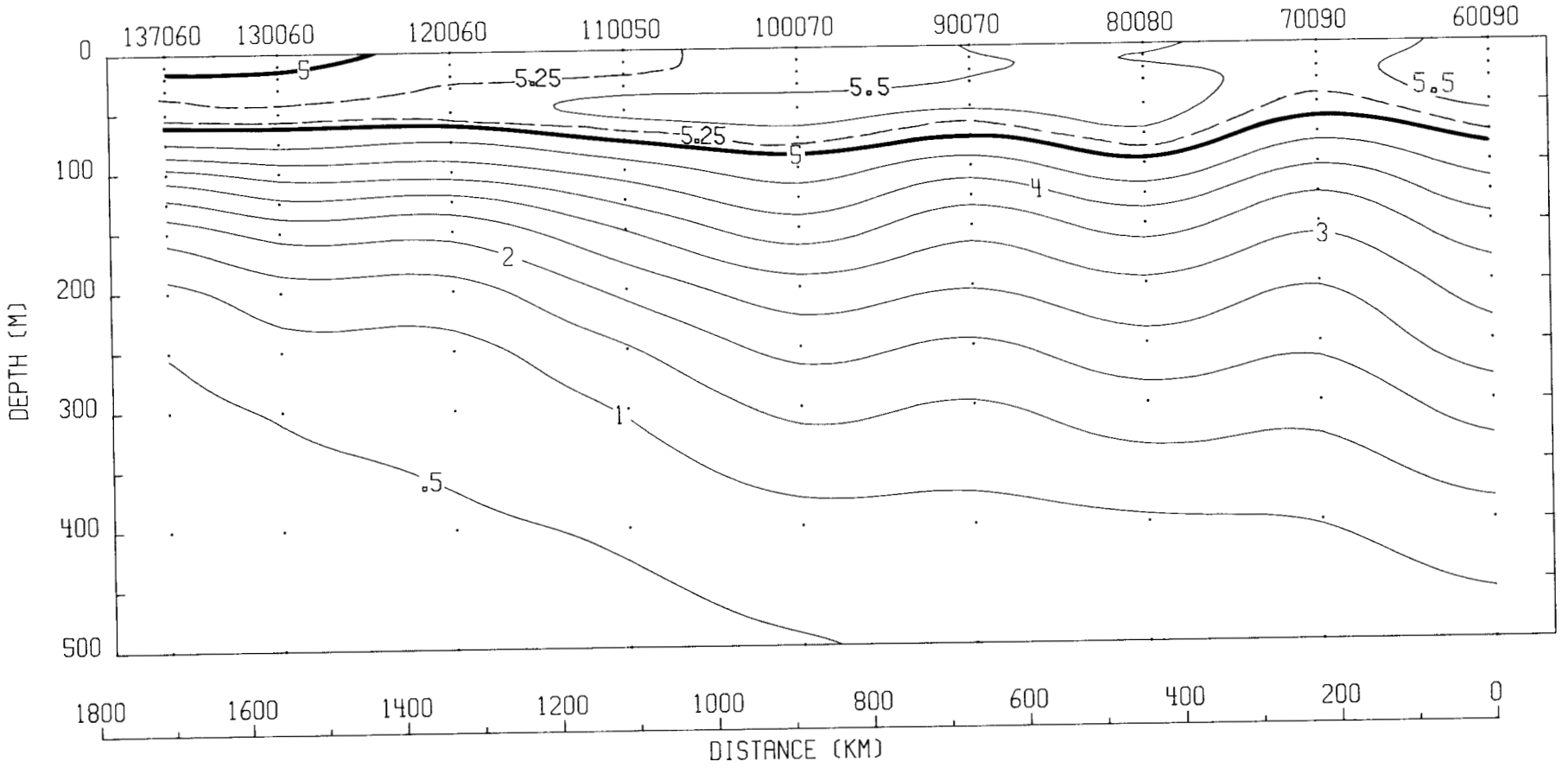


OCTOBER
OXYGEN

OXYGEN (ML/L) OFFSHORE LINE OCTOBER

DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	4.88	4.90	5.05	5.21	5.32	5.53	5.56	5.40	5.55
10	4.96	4.96	5.08	5.18	5.38	5.50	5.47	5.44	5.57
20	5.04	5.02	5.15	5.23	5.33	5.49	5.51	5.46	5.57
30	5.20	5.04	5.28	5.37	5.36	5.51	5.57	5.45	5.63
50	5.32	5.27	5.41	5.74	5.70	5.59	5.72	5.16	5.70
75	4.52	4.72	4.37	5.02	5.47	4.89	5.65	4.51	5.29
100	3.16	3.75	3.68	4.22	4.86	4.12	5.11	3.88	4.83
125	2.24	3.01	2.65	3.62	4.45	3.50	4.44	3.29	4.46
150	1.55	2.23	2.04	3.00	3.95	3.03	3.85	2.95	4.00
200	0.74	1.33	1.19	2.15	2.90	2.46	3.02	2.40	3.36
250	0.44	0.86	0.79	1.43	2.27	1.85	2.45	1.99	2.95
300	0.37	0.54	0.61	1.02	1.71	1.40	1.87	1.60	2.36
400	0.26	0.34	0.43	0.55	0.83	0.82	0.95	0.99	1.38
500	0.22	0.27	0.31	0.33	0.47	0.56	0.50	0.55	0.78

OFFSHORE SECTION



OCTOBER
OXYGEN

[redacted]

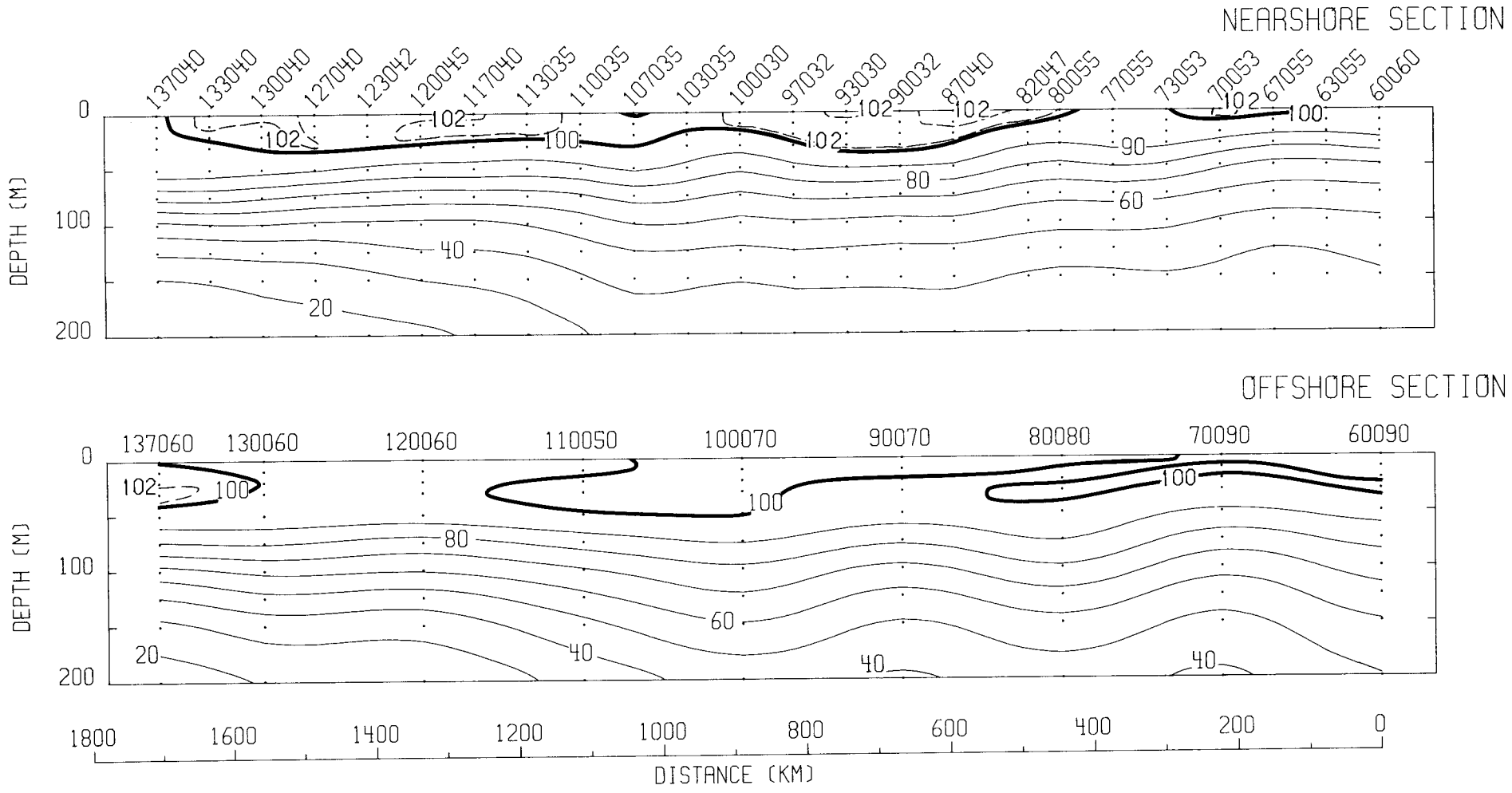
PERCENT OXYGEN SATURATION NEARSHORE LINE OCTOBER

DEPTH	137040	133040	130040	127040	123042	120045	117040	113035	110035	107035	103035	100030
0	98.7	102.9	102.8	101.7	100.9	101.2	101.7	105.2	100.2	98.7	100.7	103.9
10	99.3	102.6	101.4	101.4	99.9	102.3	102.2	103.3	100.6	100.3	100.9	102.3
20	98.1	101.2	101.7	101.8	101.0	102.6	102.2	103.3	100.1	102.0	101.2	93.6
30	98.3	97.5	101.3	103.7	101.1	99.6	99.2	93.0	100.9	102.0	99.8	86.1
50	97.6	96.1	93.9	92.7	88.7	82.3	90.7	82.1	86.6	94.8	93.5	68.6
75	70.4	77.9	70.2	66.2	66.8	62.6	65.3	64.9	65.6	75.5	76.6	58.4
100	44.8	48.5	51.1	45.5	47.7	48.0	43.7	51.7	53.3	61.3	64.5	50.1
125	31.5	29.2	35.4	30.2	37.6	40.9	38.5	39.6	46.8	48.8	52.7	42.9
150	18.7	18.8	24.1	22.1	26.9	30.2	31.9	31.9	39.7	43.5	44.7	35.6
200	9.8	11.0	16.1	13.6	18.0	16.0	21.0	23.7	28.5	34.1	33.5	26.4
250	6.7	8.0	11.9	9.1	11.9	11.5	14.5	17.4	20.4	22.2	22.6	19.9
300	5.3	5.8	7.4	7.2	9.1	9.7	11.5	12.6	14.6	15.9	19.1	17.3
400	3.9	4.7	4.9	5.2	5.9	5.7	9.0	10.3	10.0	9.6	10.9	
500	3.8	3.4	3.6	3.1	4.4	3.8	5.7	9.4	7.1	6.7	6.2	

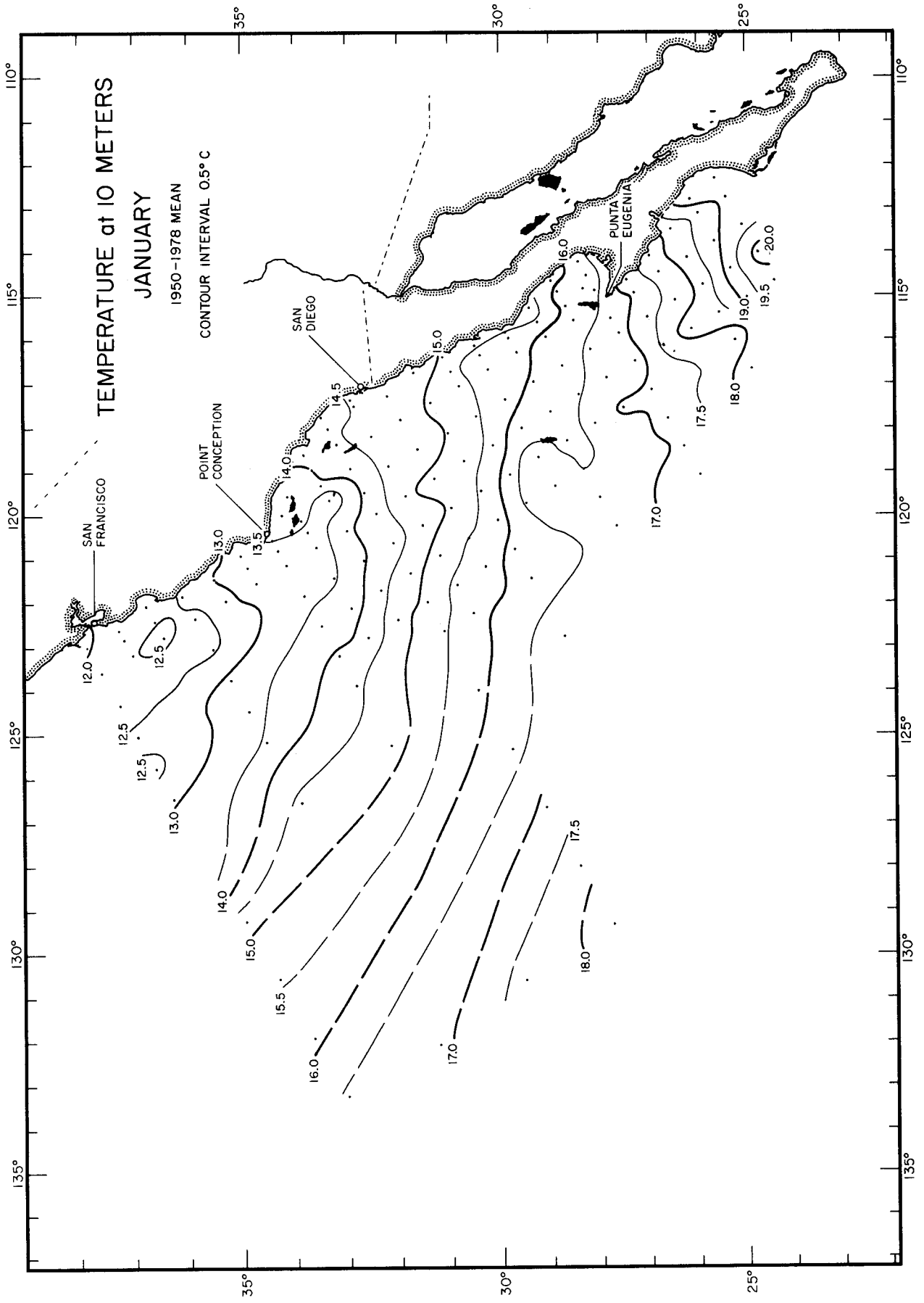
DEPTH	97032	93030	90032	87040	82047	80055	77055	73053	70053	67055	63055	60060
0	103.4	101.1	103.4	100.5	102.2	101.8	97.6	100.1	102.0	101.0	99.2	99.6
10	104.0	102.5	104.3	101.4	106.1	99.4	97.4	99.7	102.3	101.8	98.5	100.1
20	103.4	105.4	105.7	103.2	97.5	92.3	99.0	97.1	96.3	91.1	89.2	96.0
30	104.1	104.6	103.7	103.6	91.5	85.4	97.3	91.7	89.0	79.9	80.7	89.7
50	96.9	88.8	87.8	93.9	79.3	72.8	85.5	79.1	70.5	64.9	66.3	69.5
75	78.9	69.7	68.5	76.1	61.9	62.0	65.0	62.6	57.6	56.2	55.7	57.9
100	64.9	55.0	57.0	60.3	53.2	52.1	53.2	53.4	48.5	44.8	46.7	49.1
125	54.6	46.8	47.9	49.6	45.7	44.4	45.2	45.8	43.5	37.1	40.9	44.7
150	47.0	39.2	41.9	43.7	38.9	37.3	37.9	39.9	39.0	33.0	34.8	40.6
200	34.1	31.0	33.0	35.4	28.4	32.8	30.3	32.7	31.5	31.2		32.6
250	25.3	23.9	24.2	25.6	18.9	25.4	25.5	25.5	25.7	26.4		25.8
300	20.1	18.5	18.7	20.6	15.4	18.9	19.1	21.3	20.2	20.7		21.6
400	13.1	11.1	10.0	11.5		12.0	10.6	12.3	13.9	14.0		11.8
500	7.0	7.6	6.1	8.0		8.2	5.8	6.7	9.3	10.0		7.9

PERCENT OXYGEN SATURATION OFFSHORE LINE OCTOBER

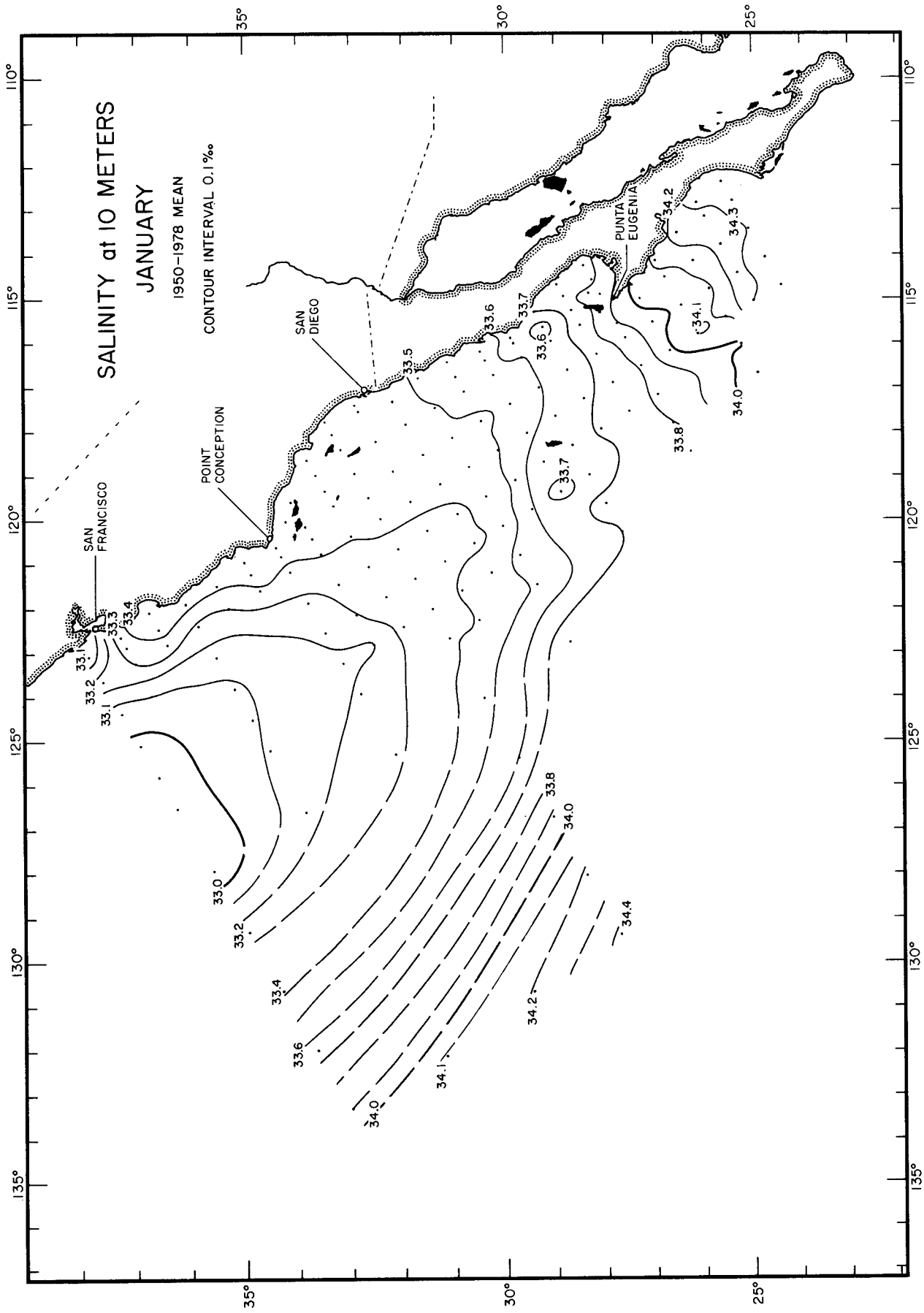
DEPTH	137060	130060	120060	110050	100070	90070	80080	70090	60090
0	99.8	98.5	98.2	100.1	99.9	101.1	101.0	99.6	99.3
10	101.0	99.6	98.8	99.6	100.9	100.4	99.5	100.3	99.5
20	101.9	99.9	99.2	100.1	99.8	100.0	99.9	99.2	99.5
30	103.2	99.2	99.9	101.7	100.2	99.6	100.4	97.7	100.5
50	97.2	97.3	95.5	101.3	102.0	94.9	99.5	87.1	96.0
75	79.4	82.5	73.4	84.4	93.0	79.4	93.9	72.3	85.1
100	53.4	63.2	59.8	68.7	80.2	64.8	82.2	60.5	76.3
125	36.9	48.8	42.4	57.4	71.2	54.3	69.7	50.8	69.1
150	25.1	35.7	32.3	47.1	62.0	46.5	59.4	45.2	61.0
200	11.9	21.1	18.9	33.2	44.4	37.1	45.8	36.1	50.7
250	7.0	13.5	12.3	22.0	34.2	27.6	36.6	29.4	44.3
300	5.7	8.3	9.5	15.4	25.4	20.6	27.6	23.6	35.1
400	4.0	5.1	6.5	8.1	12.2	11.8	13.8	14.7	20.3
500	3.3	4.0	4.6	4.8	6.8	8.0	7.2	8.1	11.4



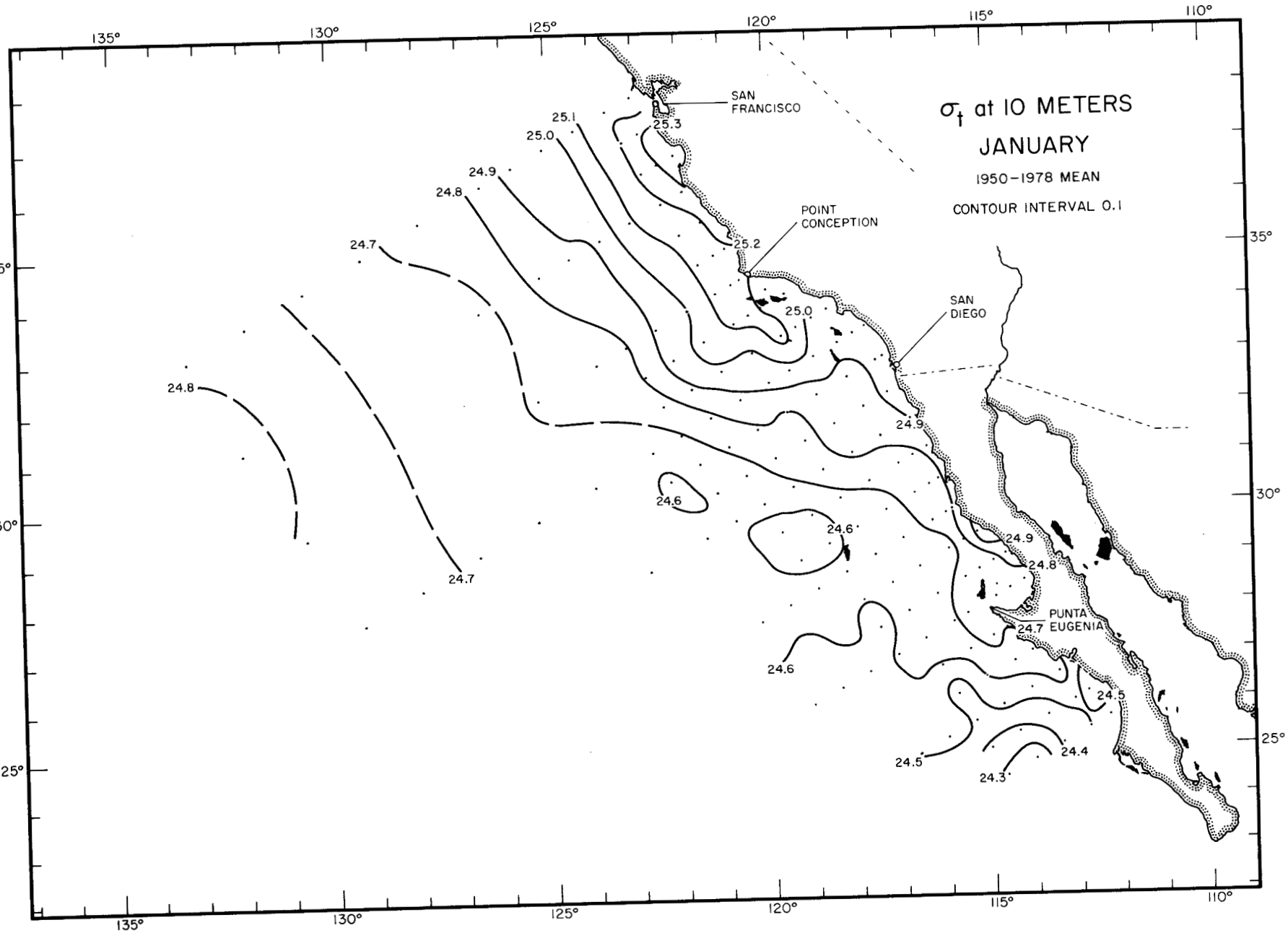
OCTOBER
PERCENT OXYGEN SATURATION



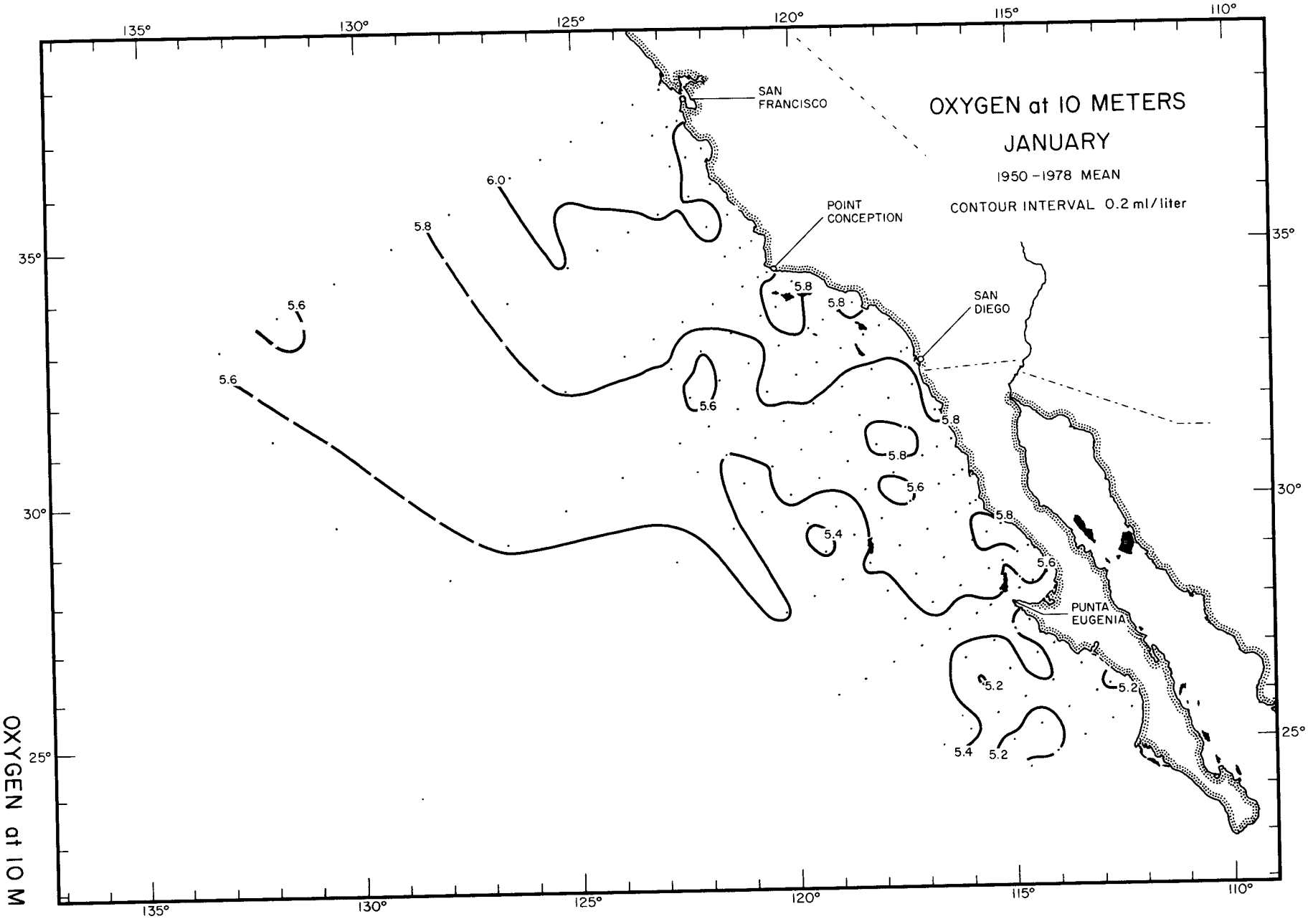
T at 10m
JANUARY



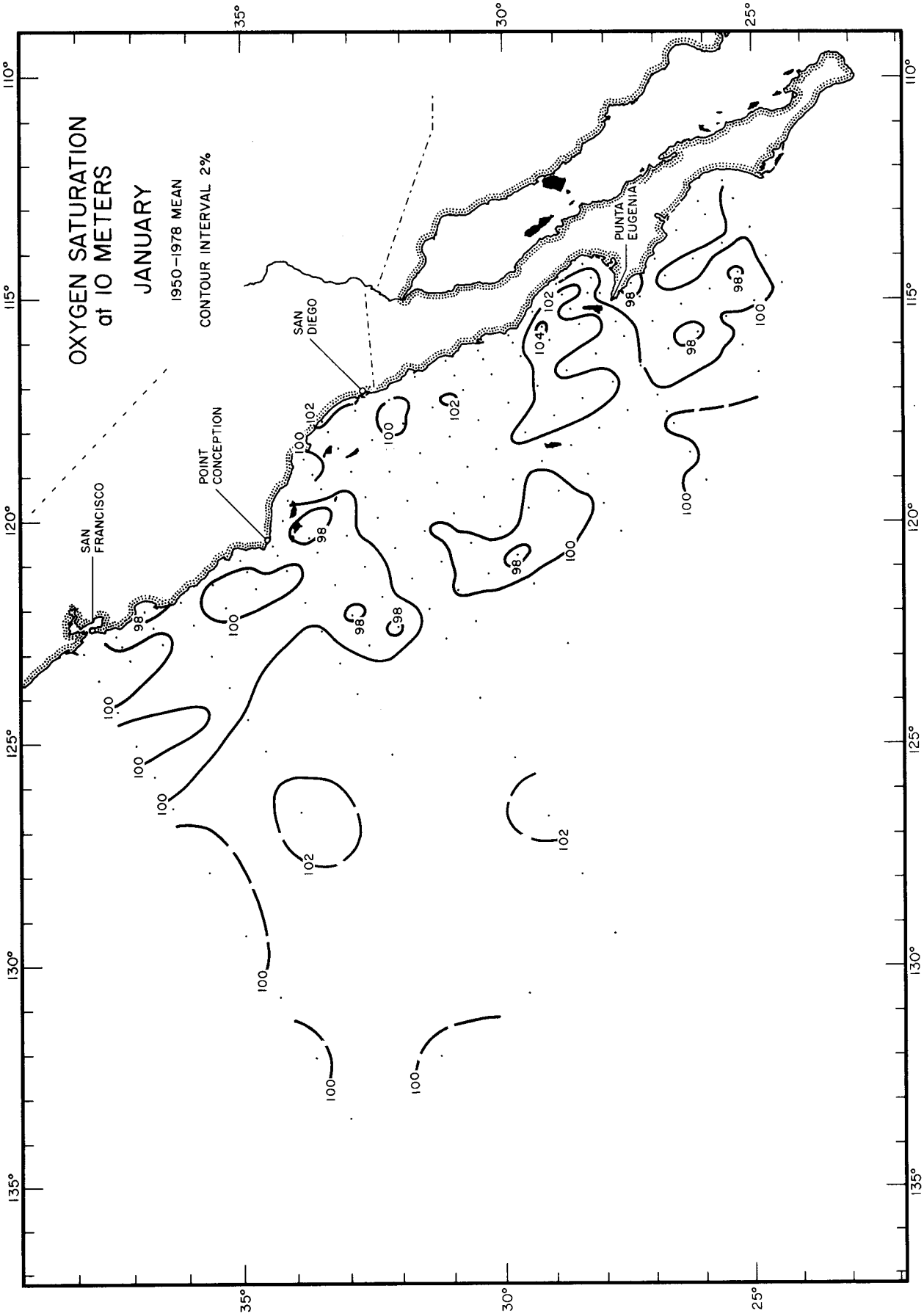
S at 10m
JANUARY



σt at 10m
JANUARY

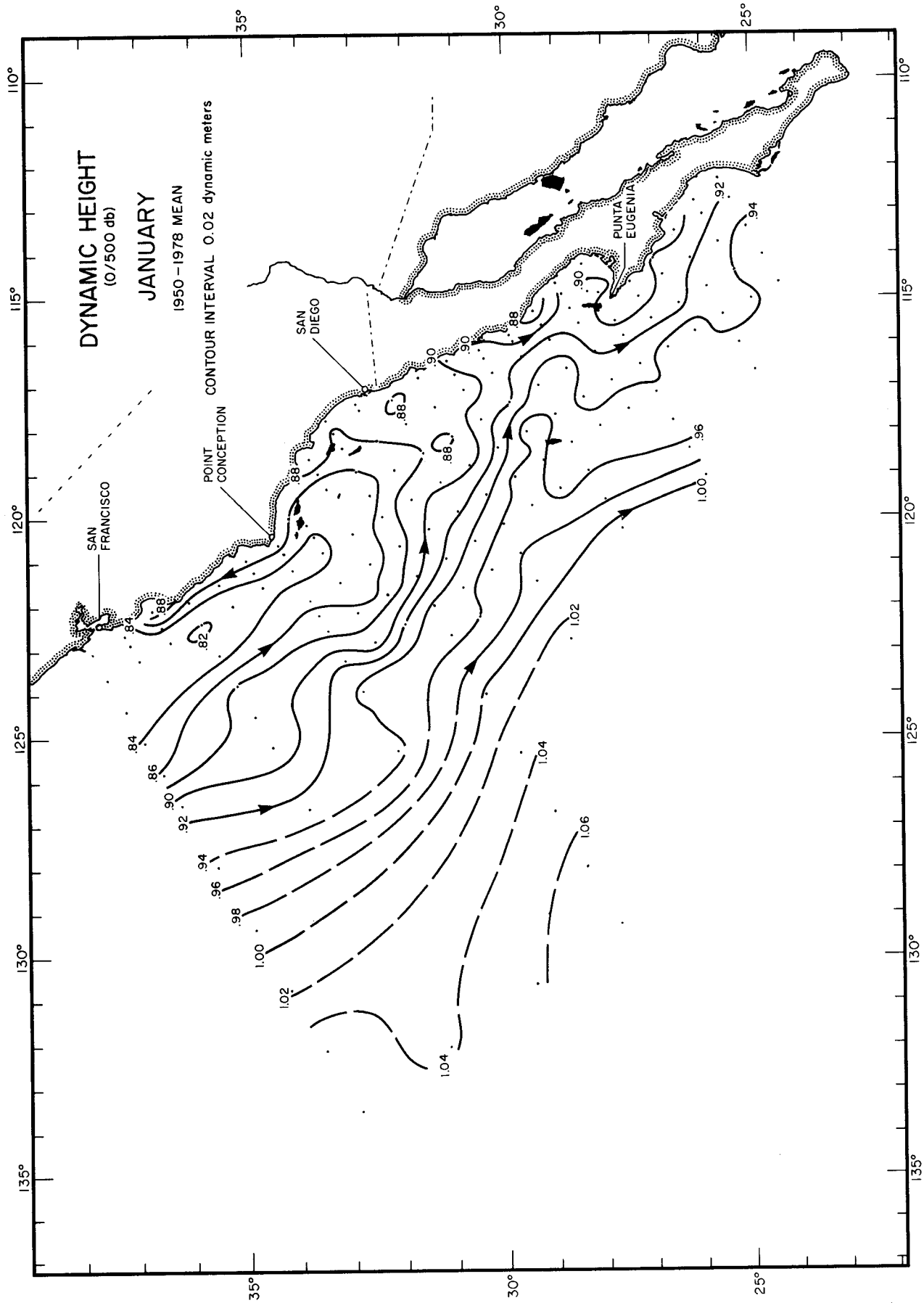


OXYGEN at 10 M
JANUARY

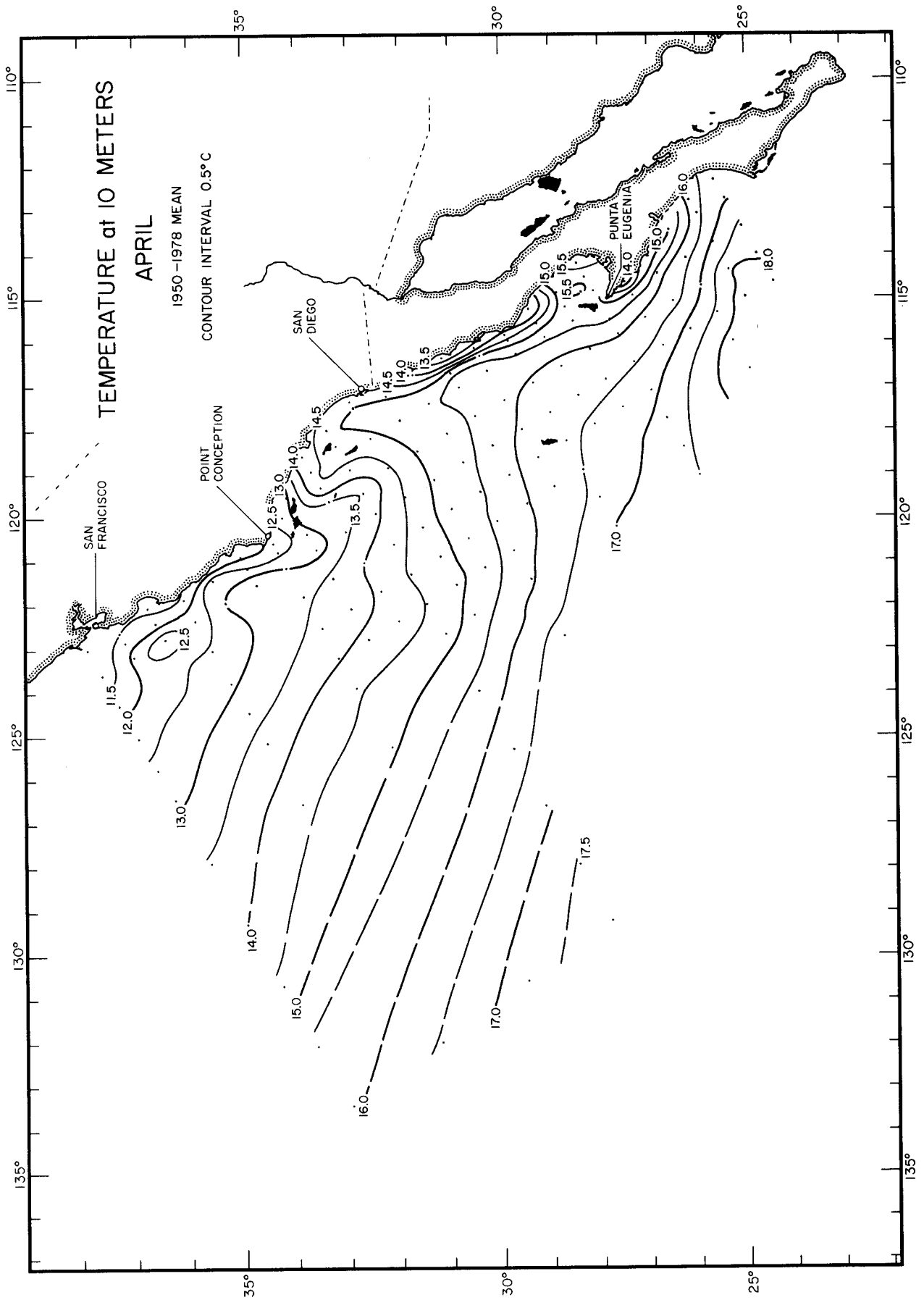


OXYGEN SATURATION at 10 M

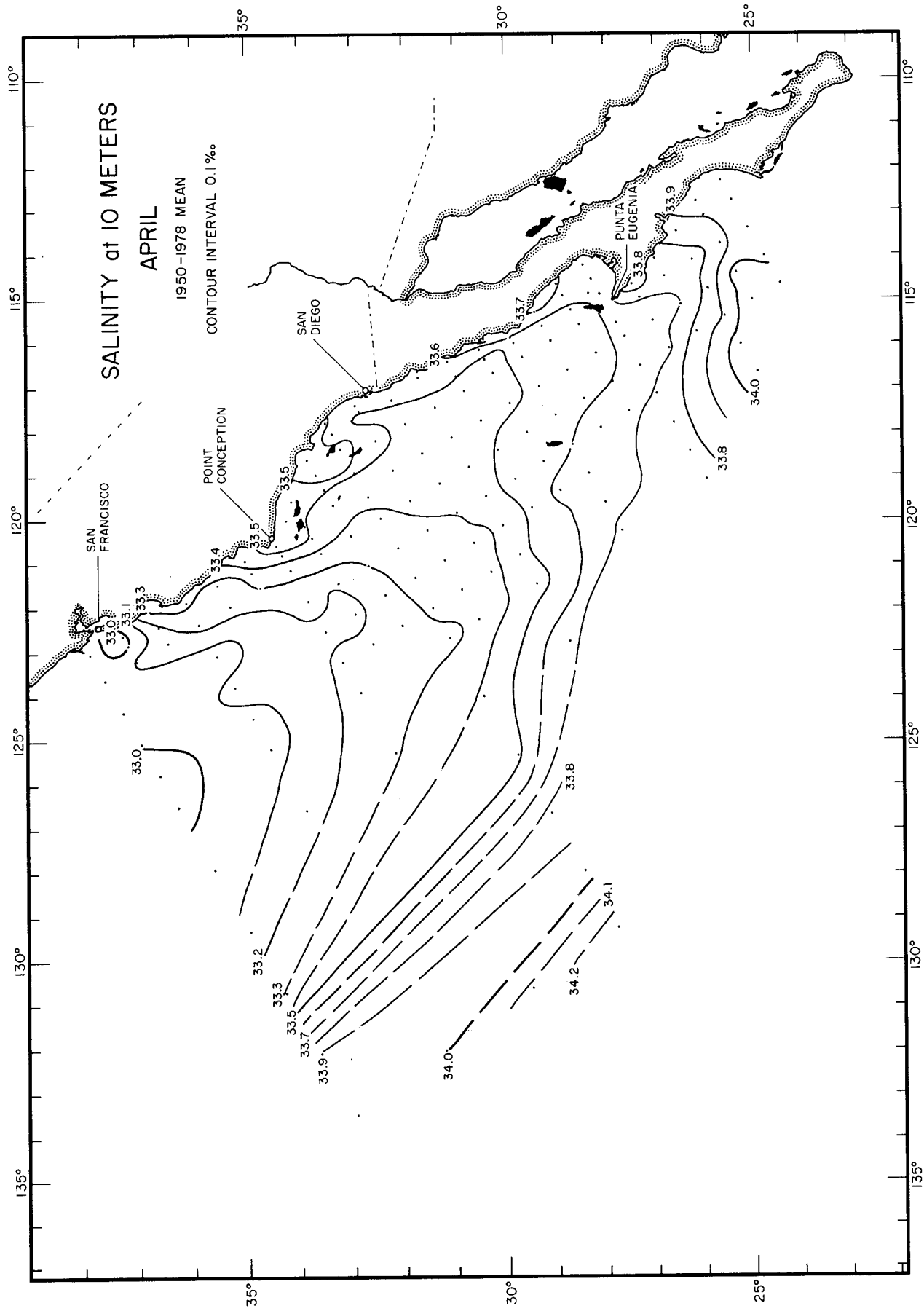
JANUARY



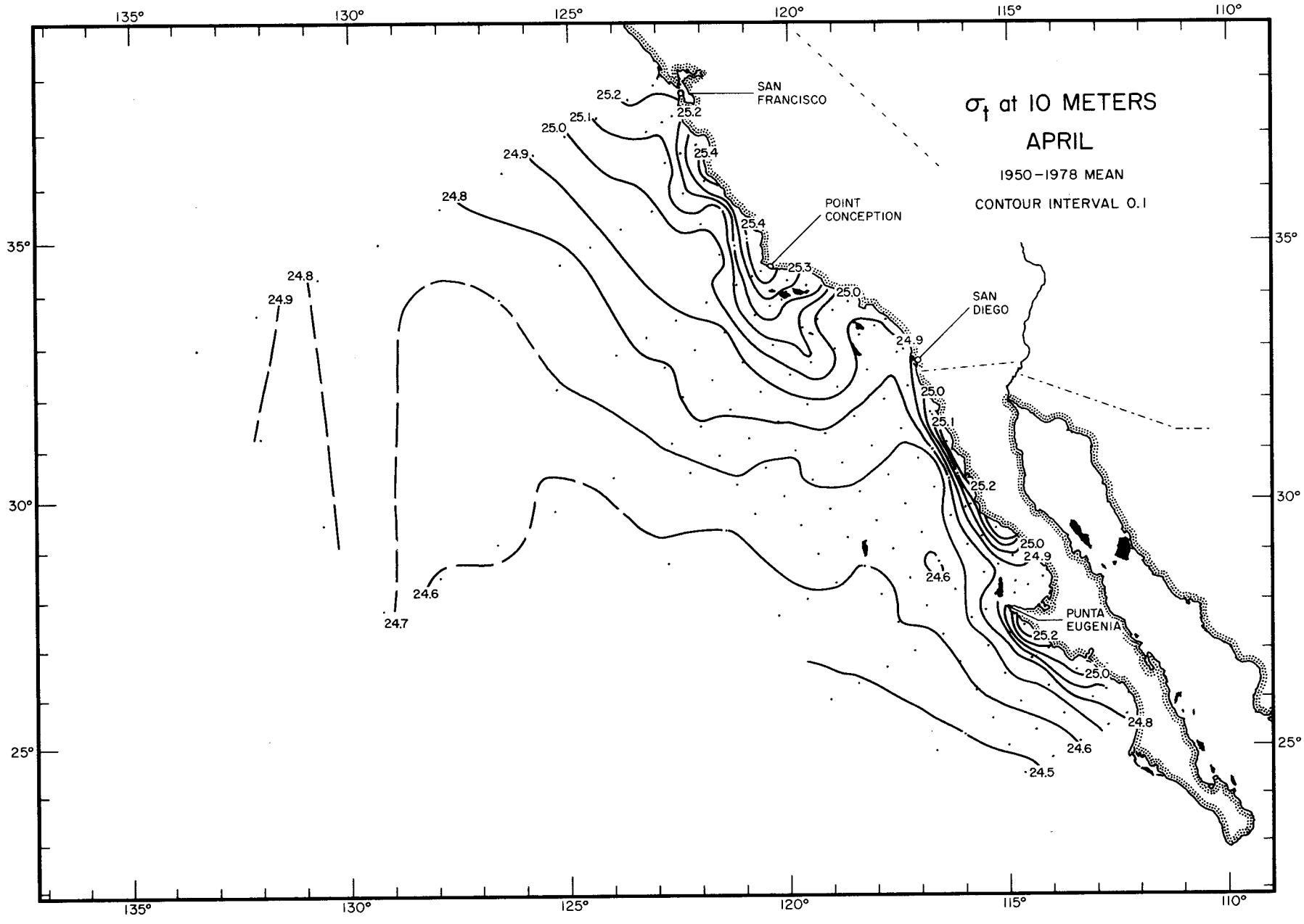
DYNAMIC HEIGHT
JANUARY



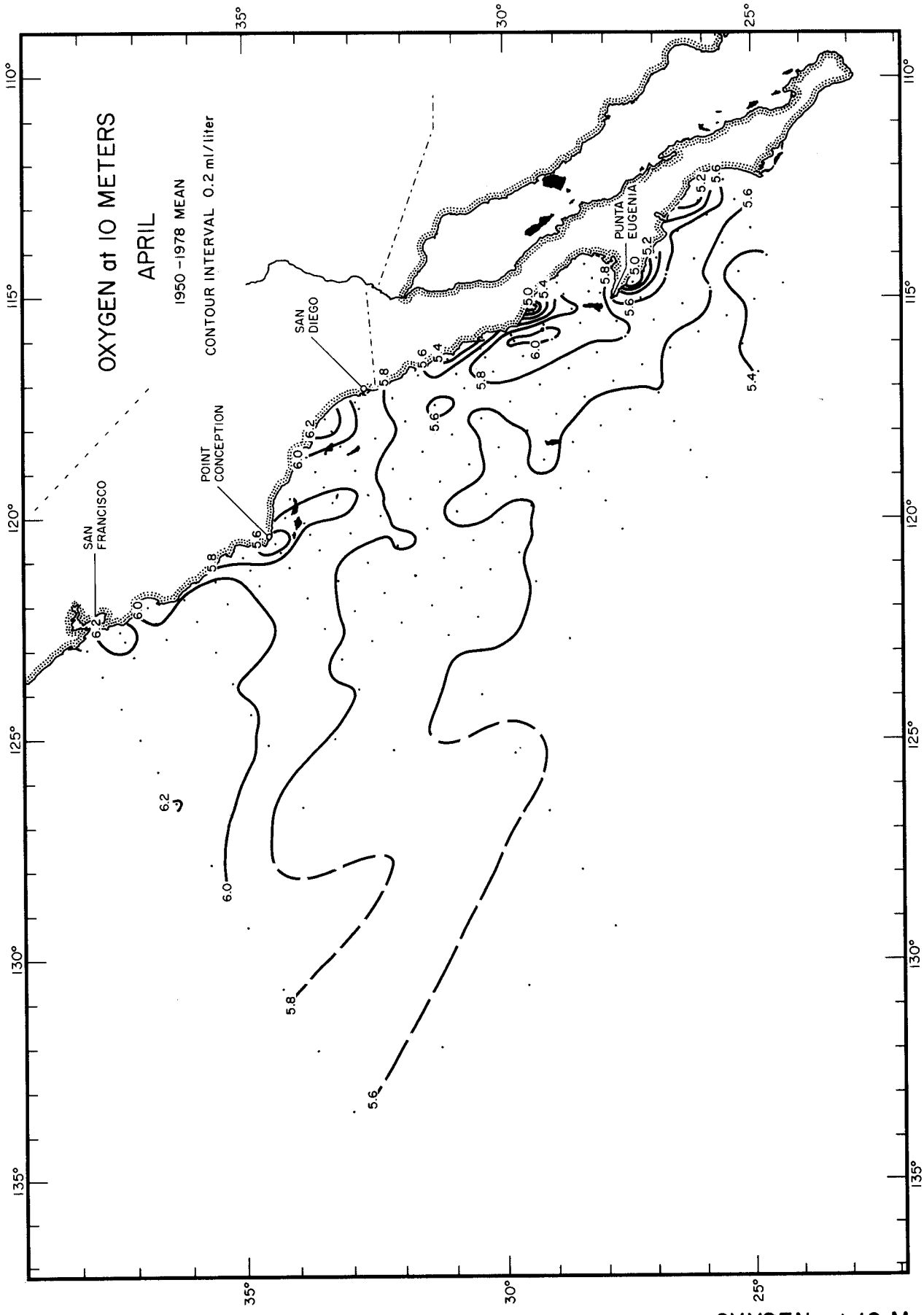
T at 10m
APRIL



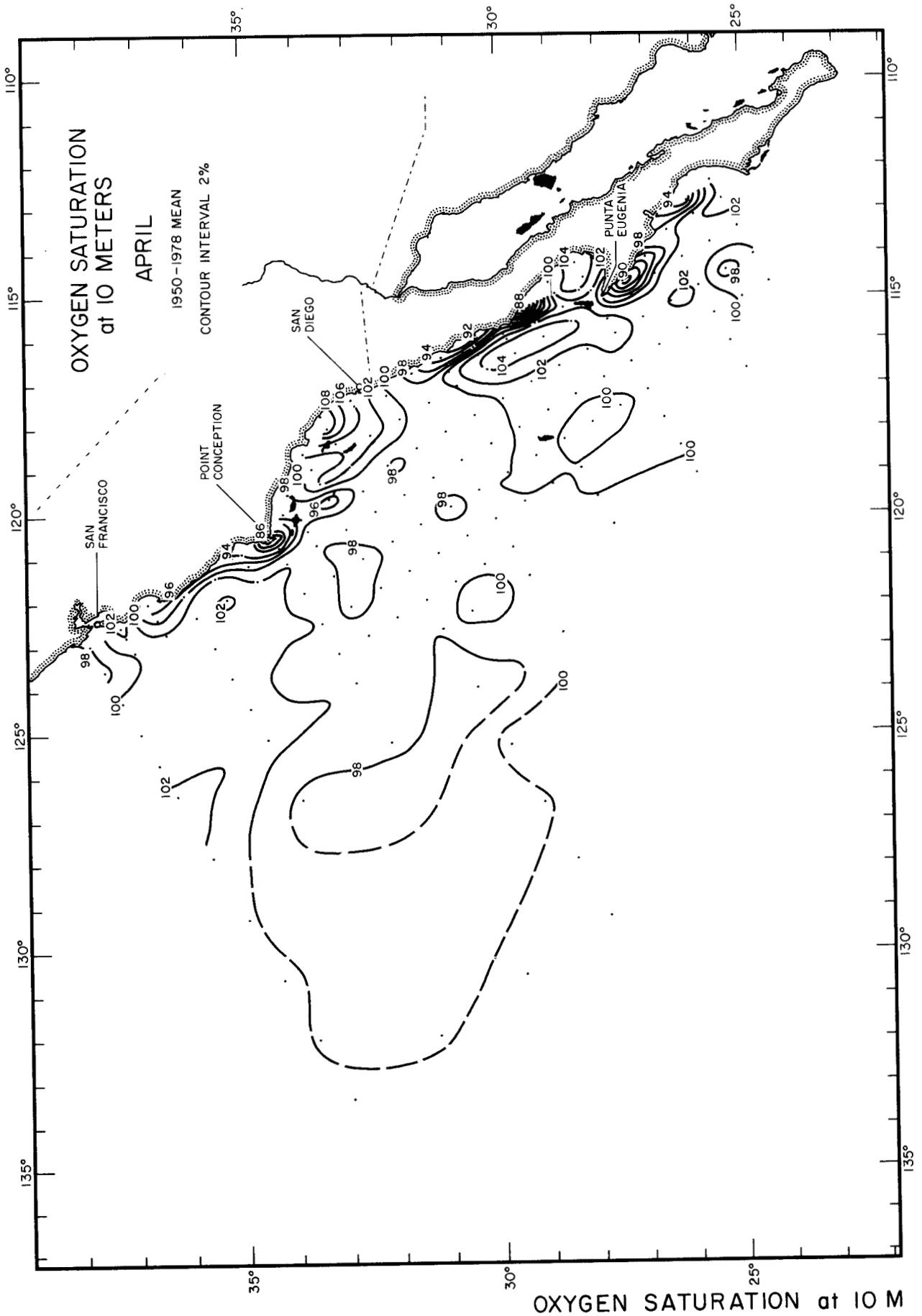
S at 10m
APRIL



σt at 10m
APRIL

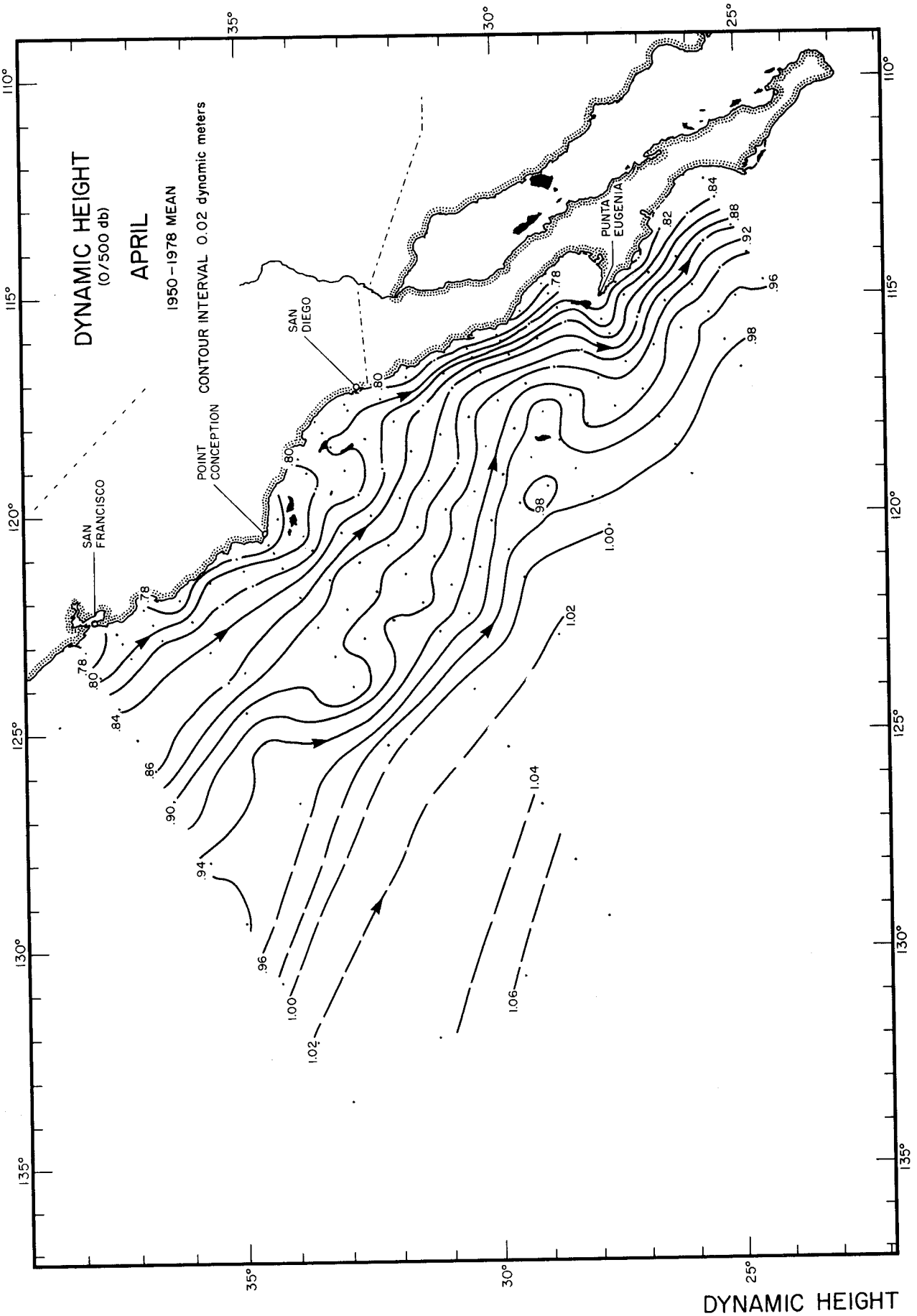


OXYGEN at 10 M
APRIL

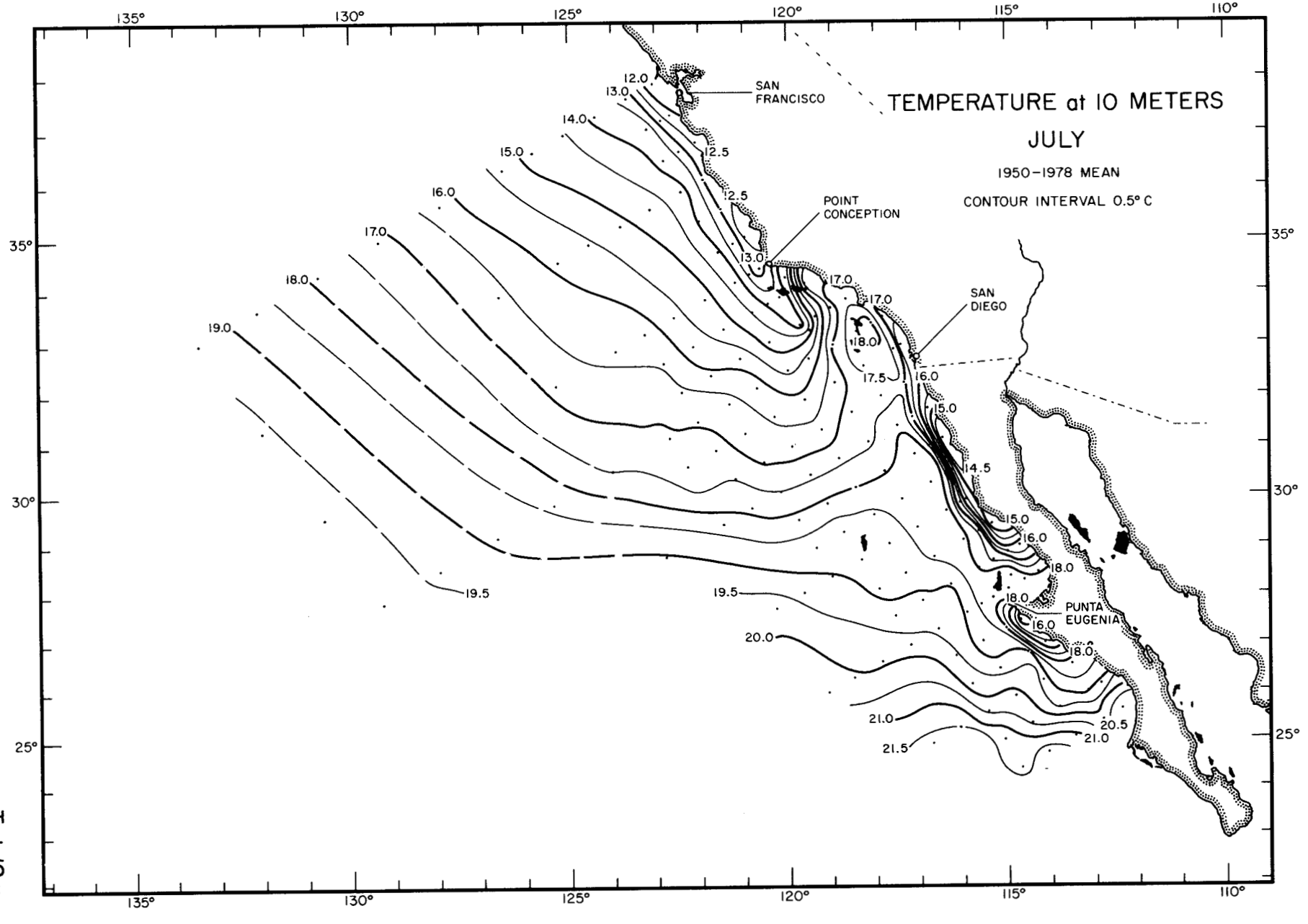


OXYGEN SATURATION at 10 M

APRIL



DYNAMIC HEIGHT
APRIL


TEMPERATURE at 10 METERS
JULY
1950–1978 MEAN
CONTOUR INTERVAL 0.5° C
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
135°
130°
125°
120°
115°
110°
35°
30°
25°
12.0
13.0
14.0
15.0
16.0
17.0
18.0
19.0
12.5
13.0
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18.0
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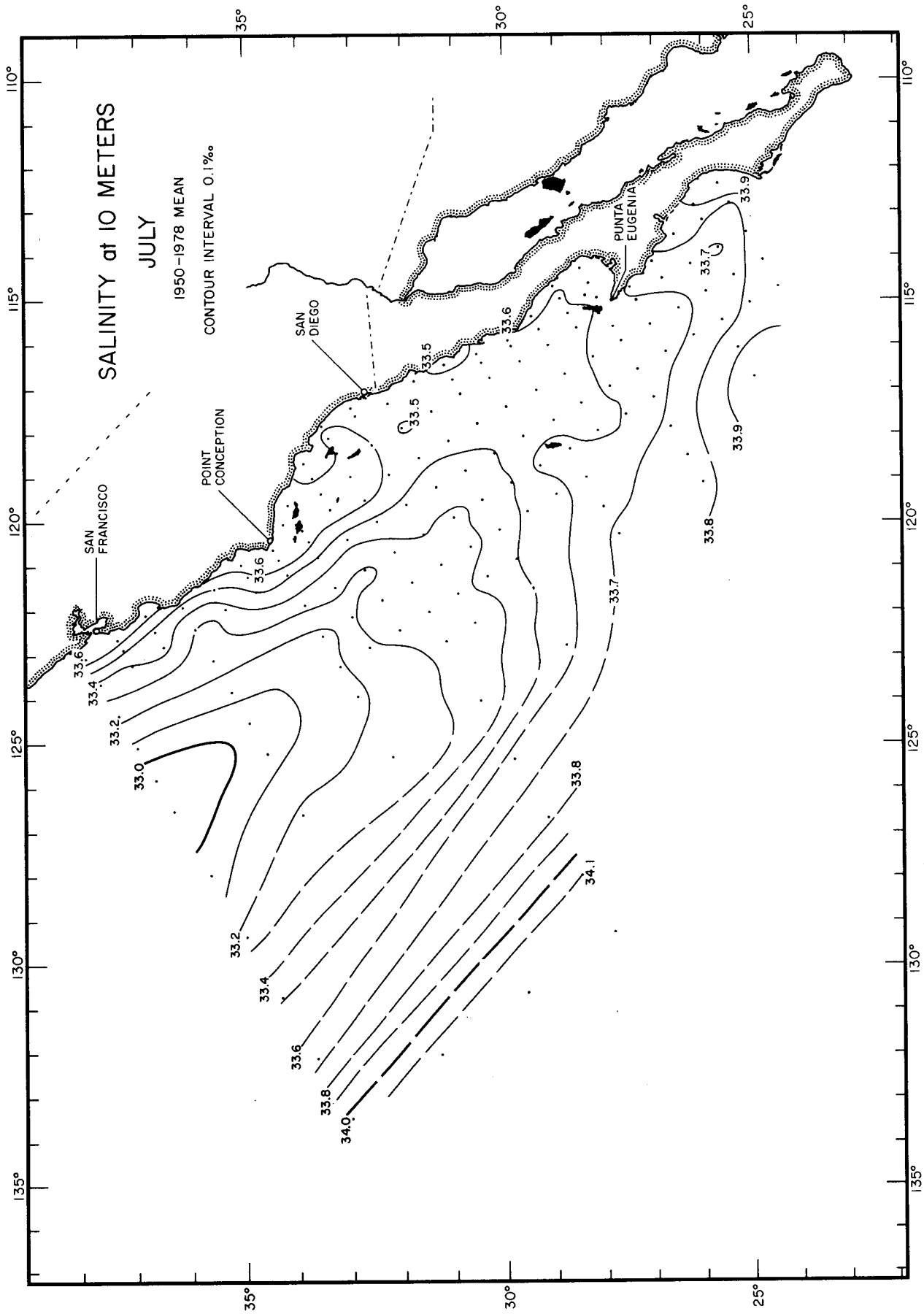
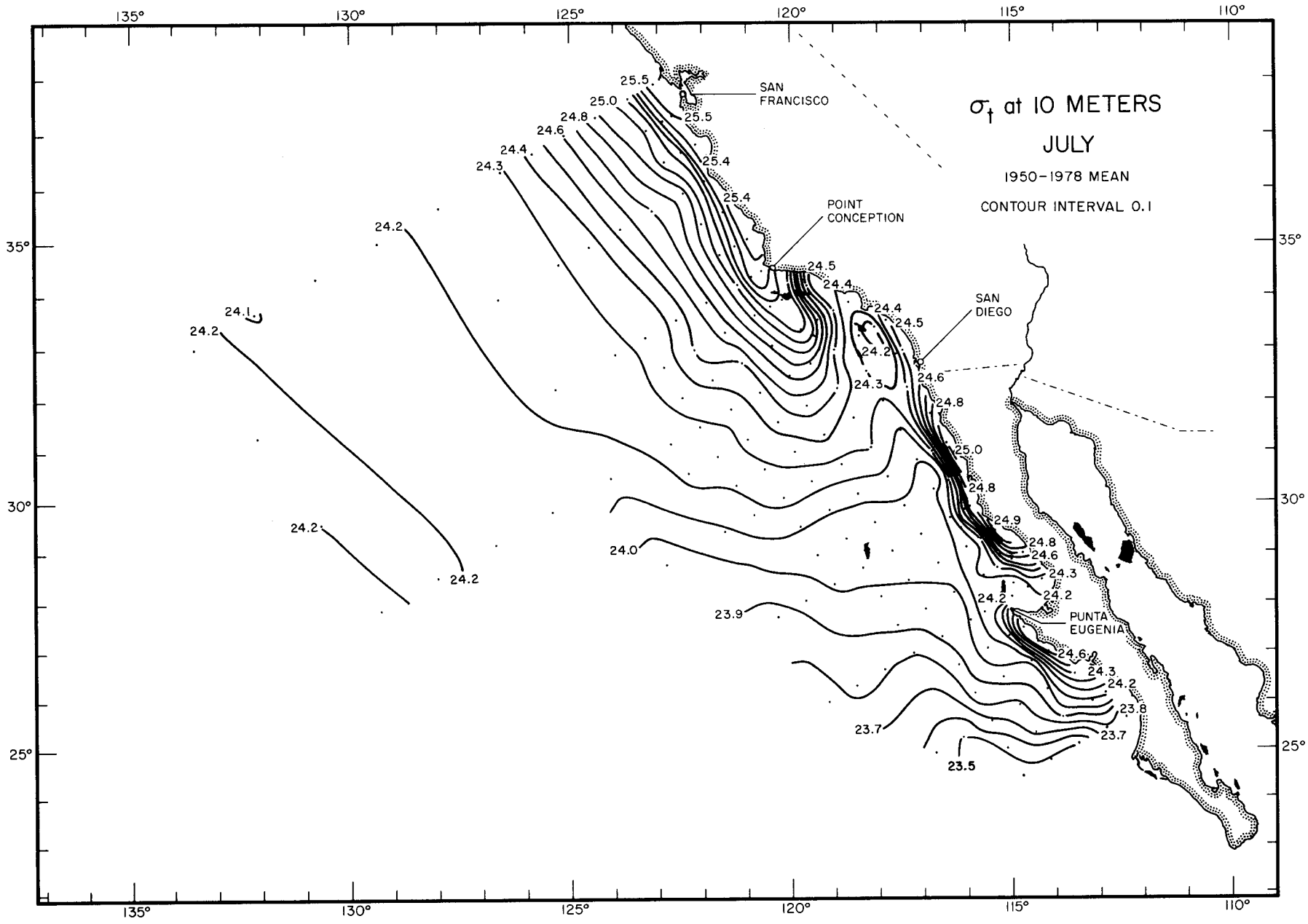
20.0
21.0
21.5
20.5
21.0

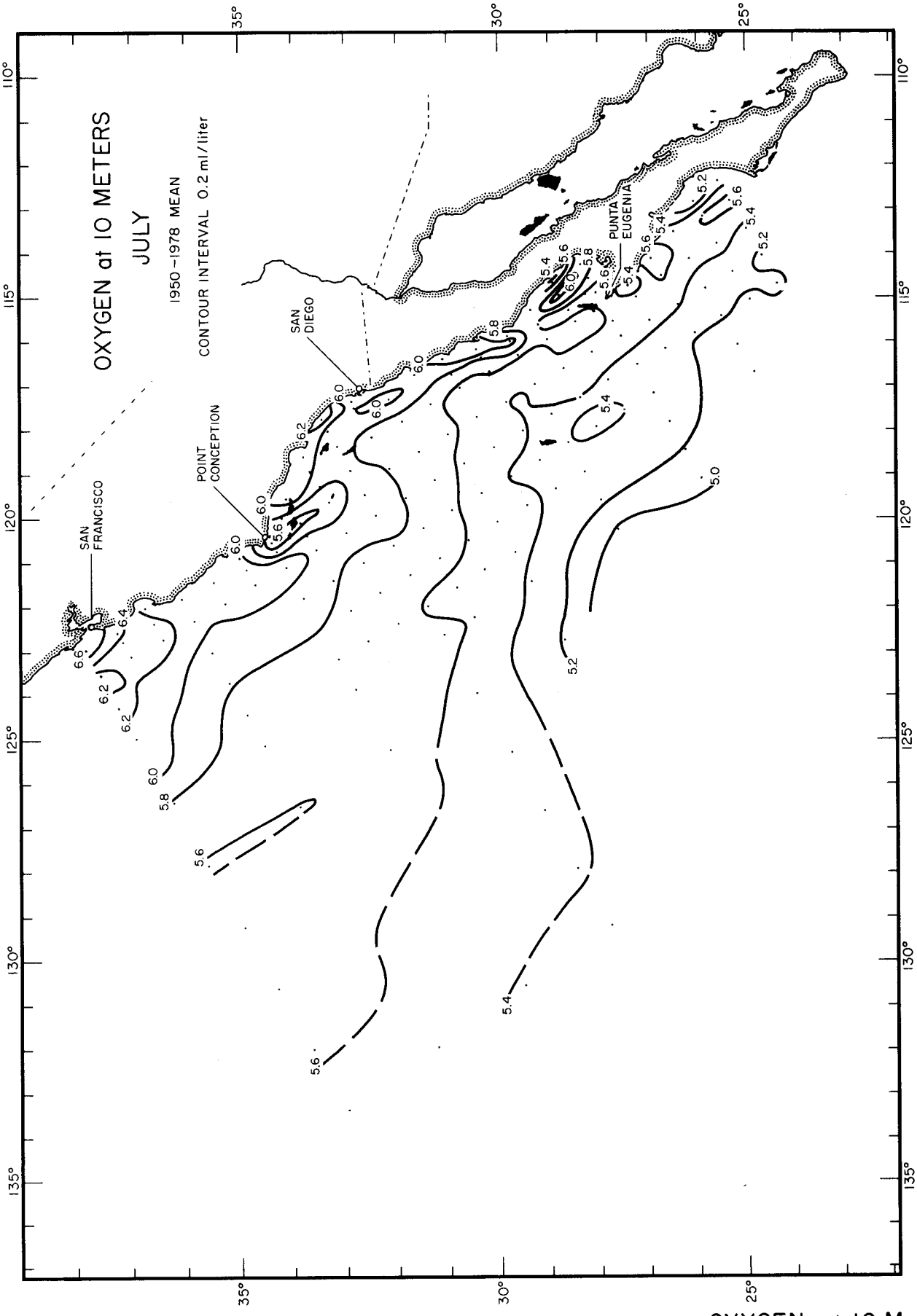
T at 10m
JULY


SALINITY at 10 METERS
JULY
1950–1978 MEAN
CONTOUR INTERVAL 0.1‰
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
33.0
33.2
33.4
33.6
33.8
34.0
34.1
33.5
33.7
33.9
110°
115°
120°
125°
130°
135°
35°
30°
25°

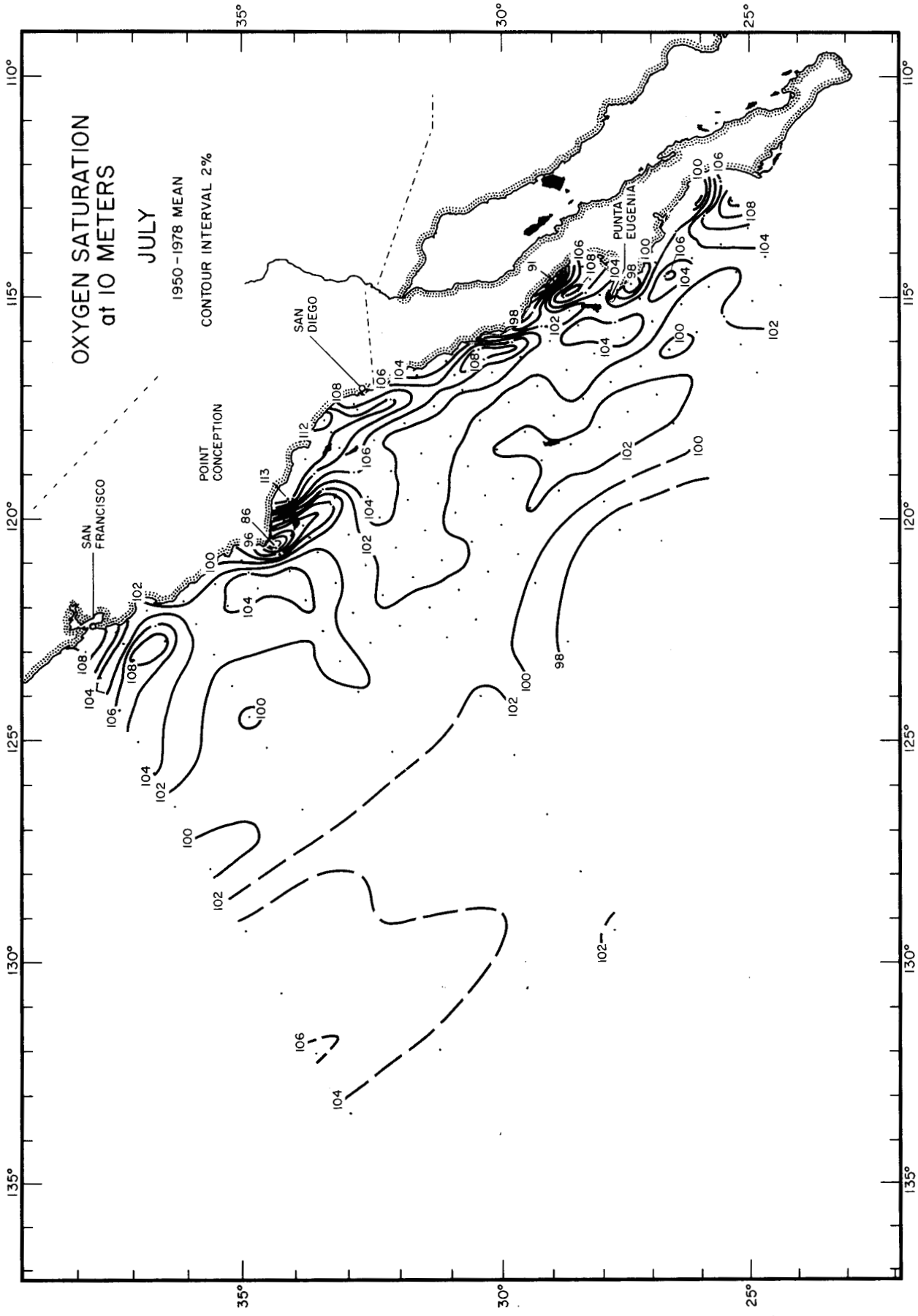
S at 10m
JULY



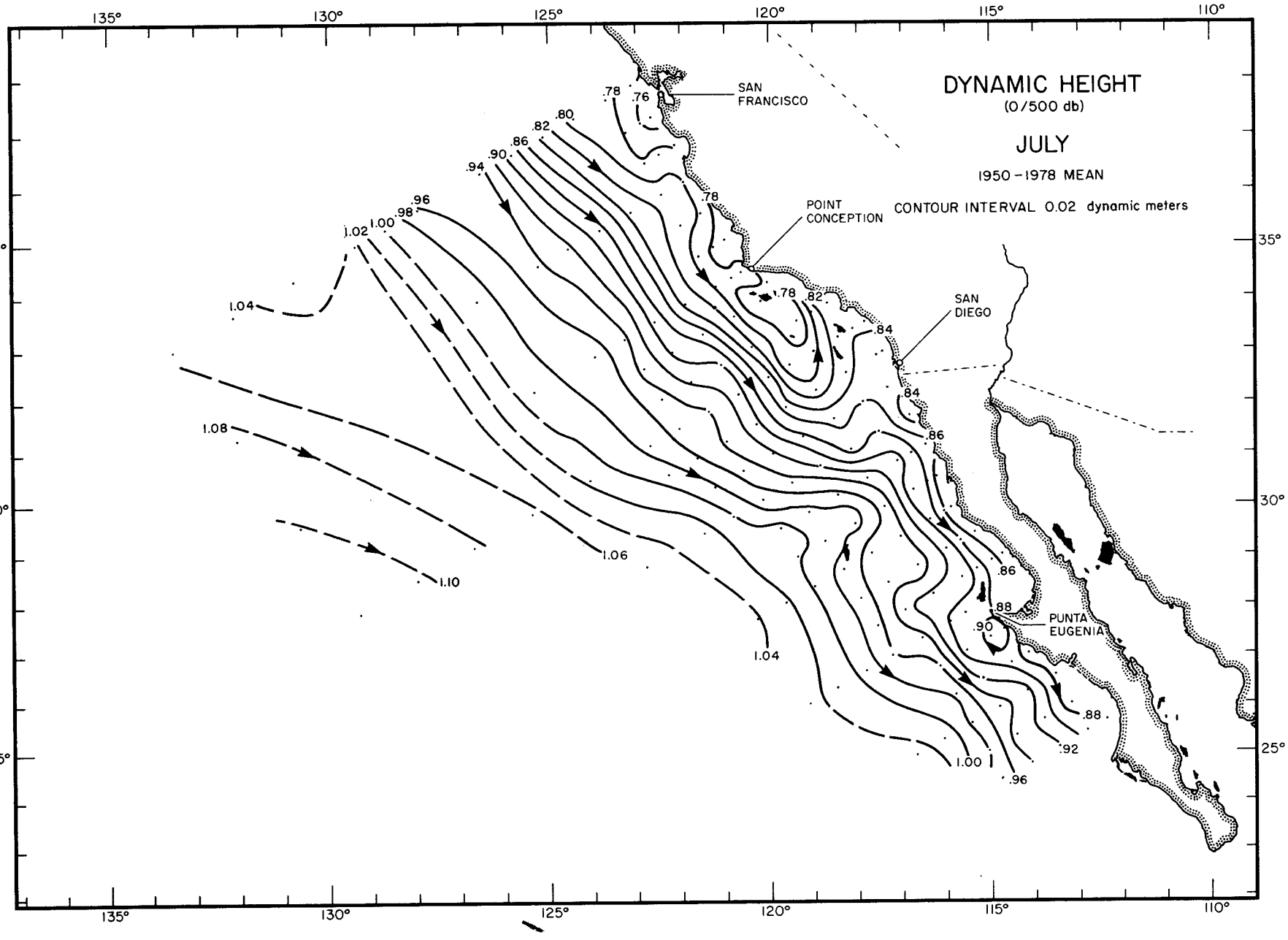
σt at 10m
JULY



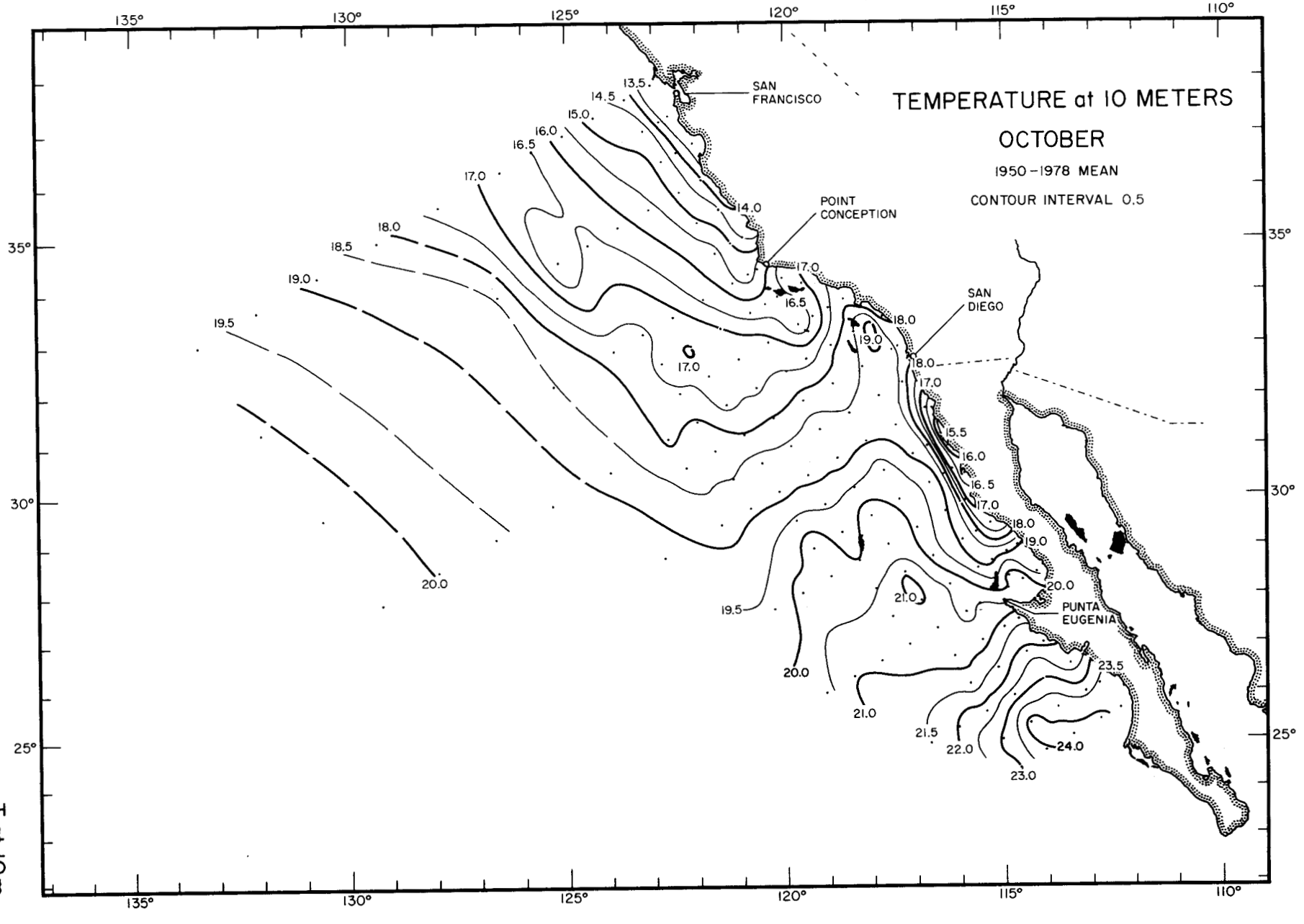
OXYGEN at 10 M
JULY



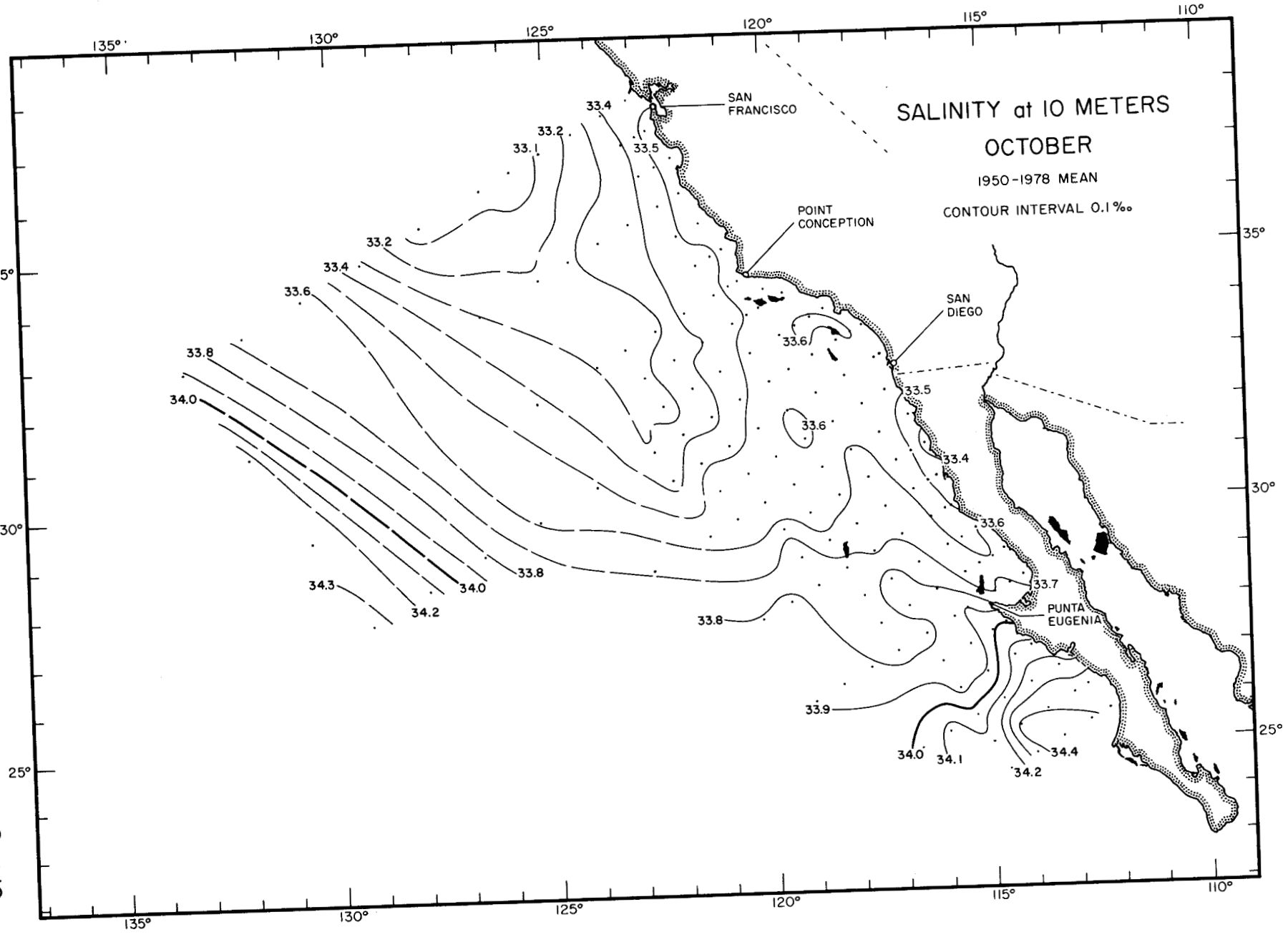
OXYGEN SATURATION at 10 M
JULY



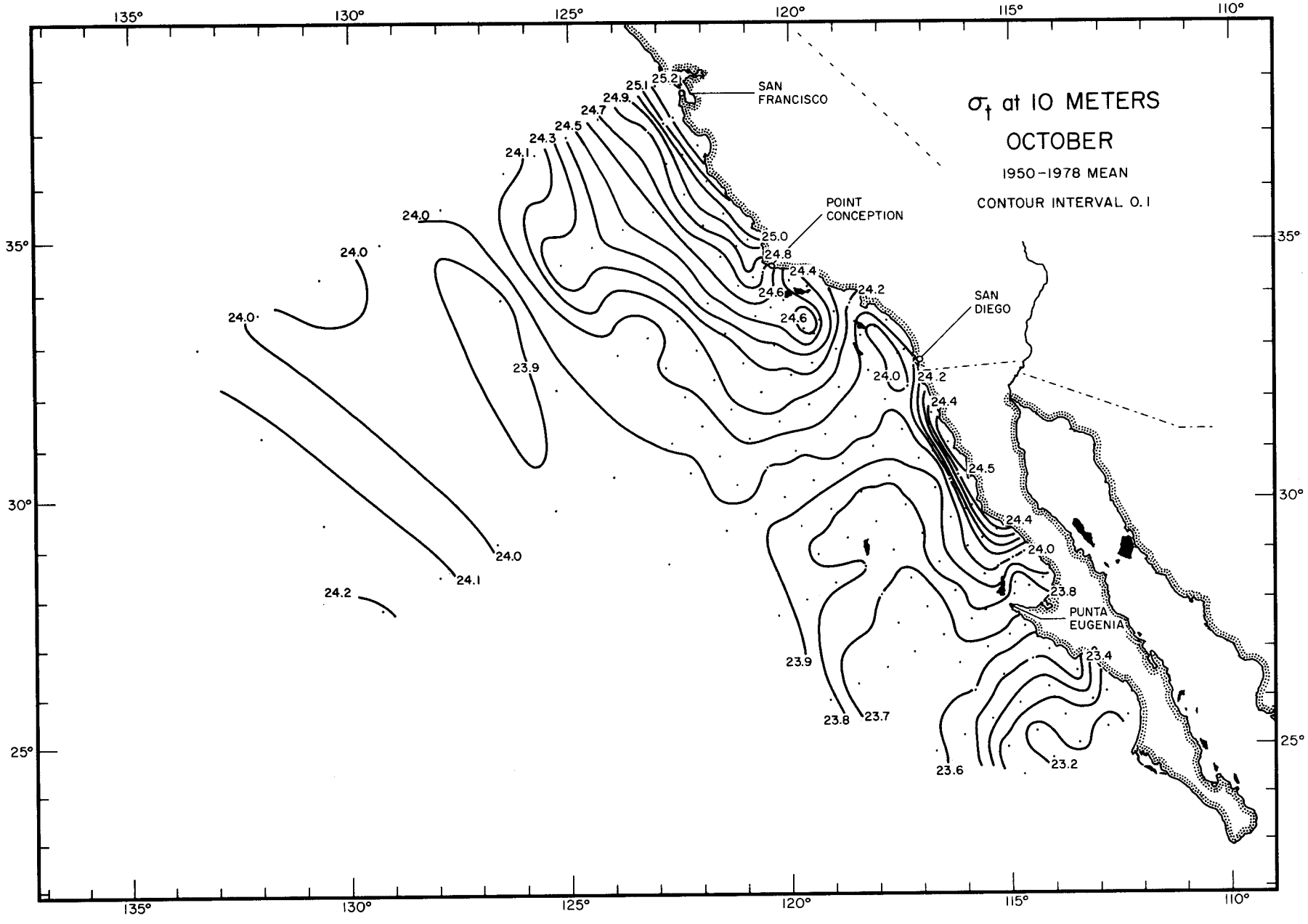
DYNAMIC HEIGHT
JULY



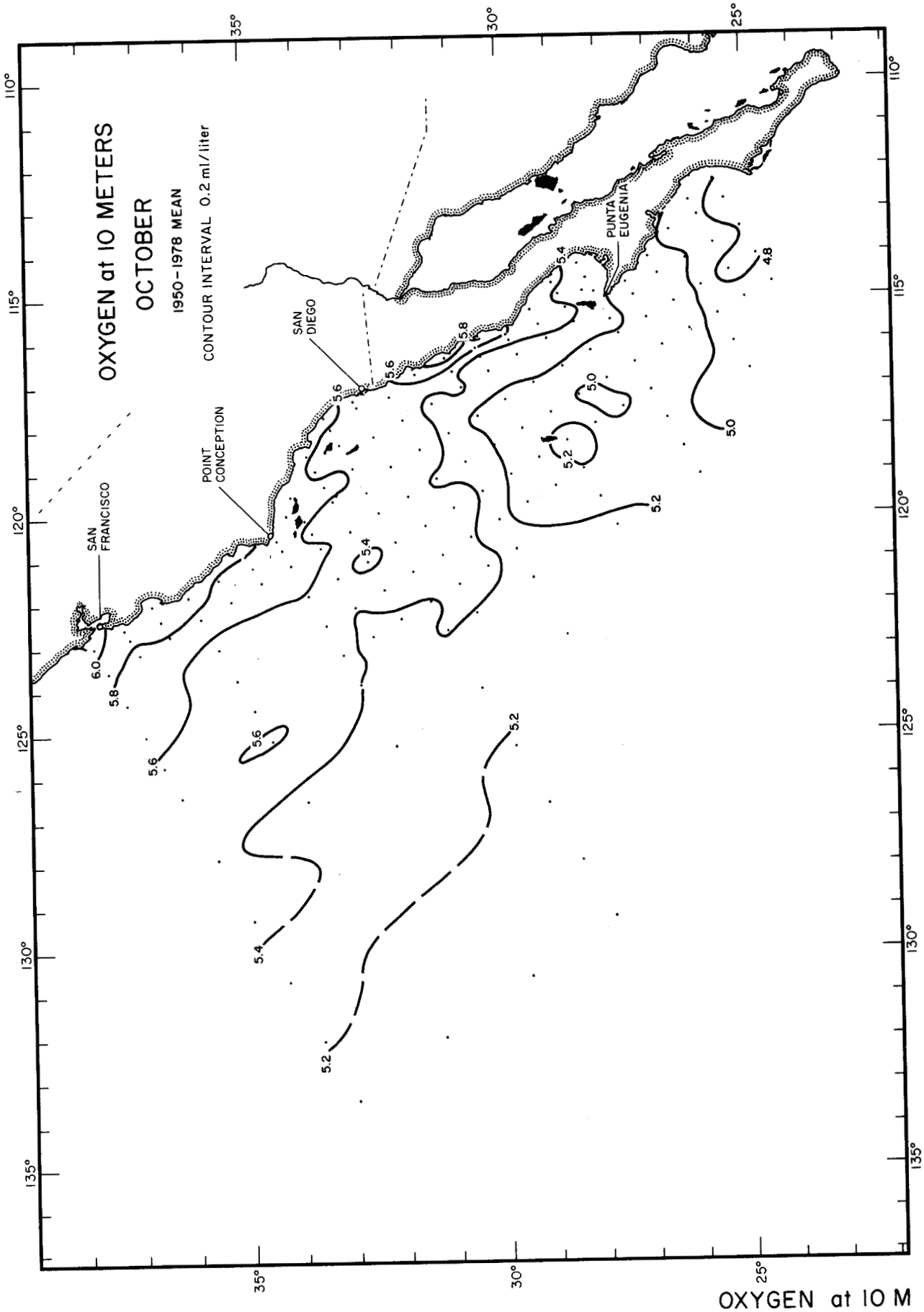
T at 10m
OCTOBER



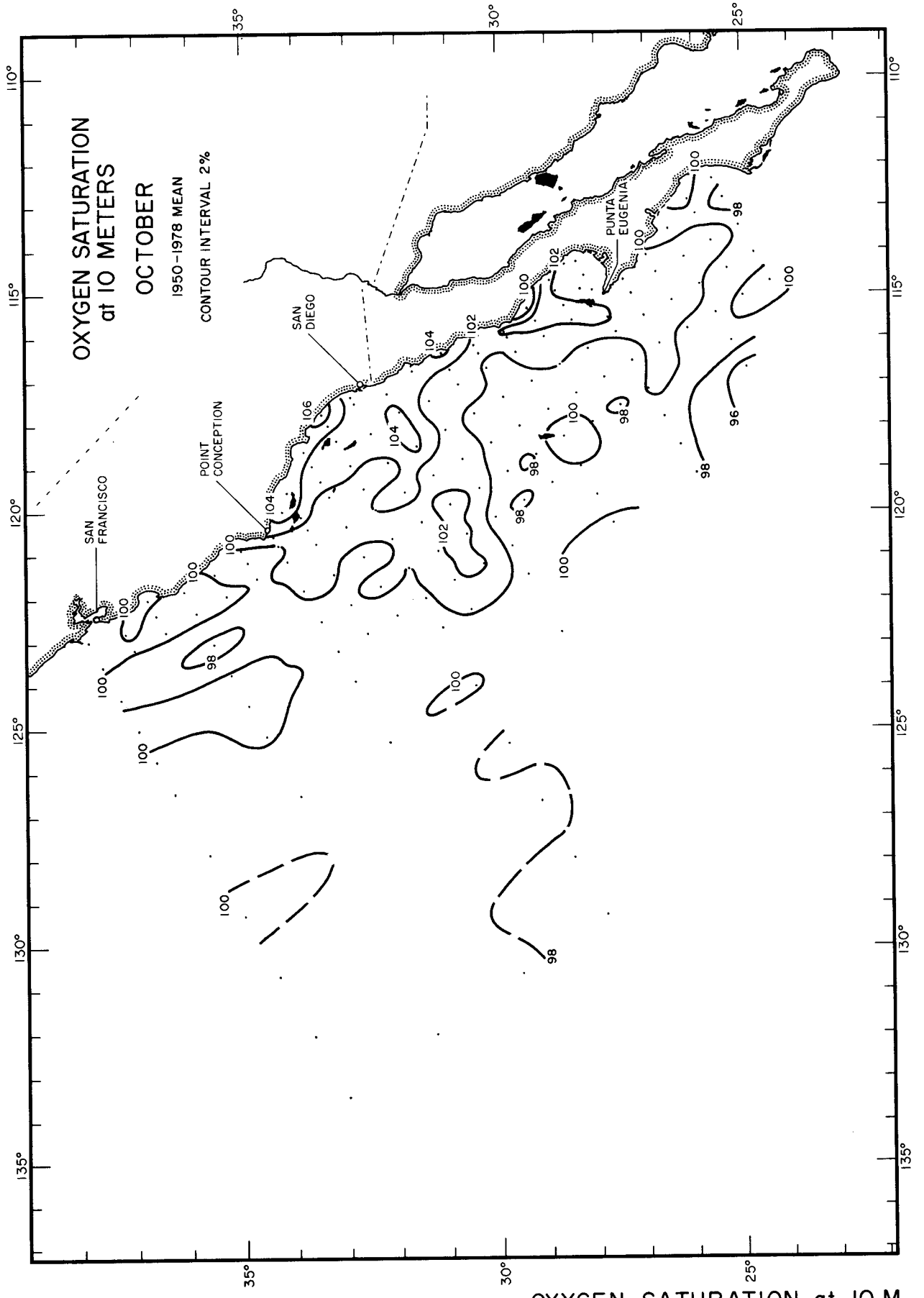
S at 10m
OCTOBER



σt at 10m
OCTOBER

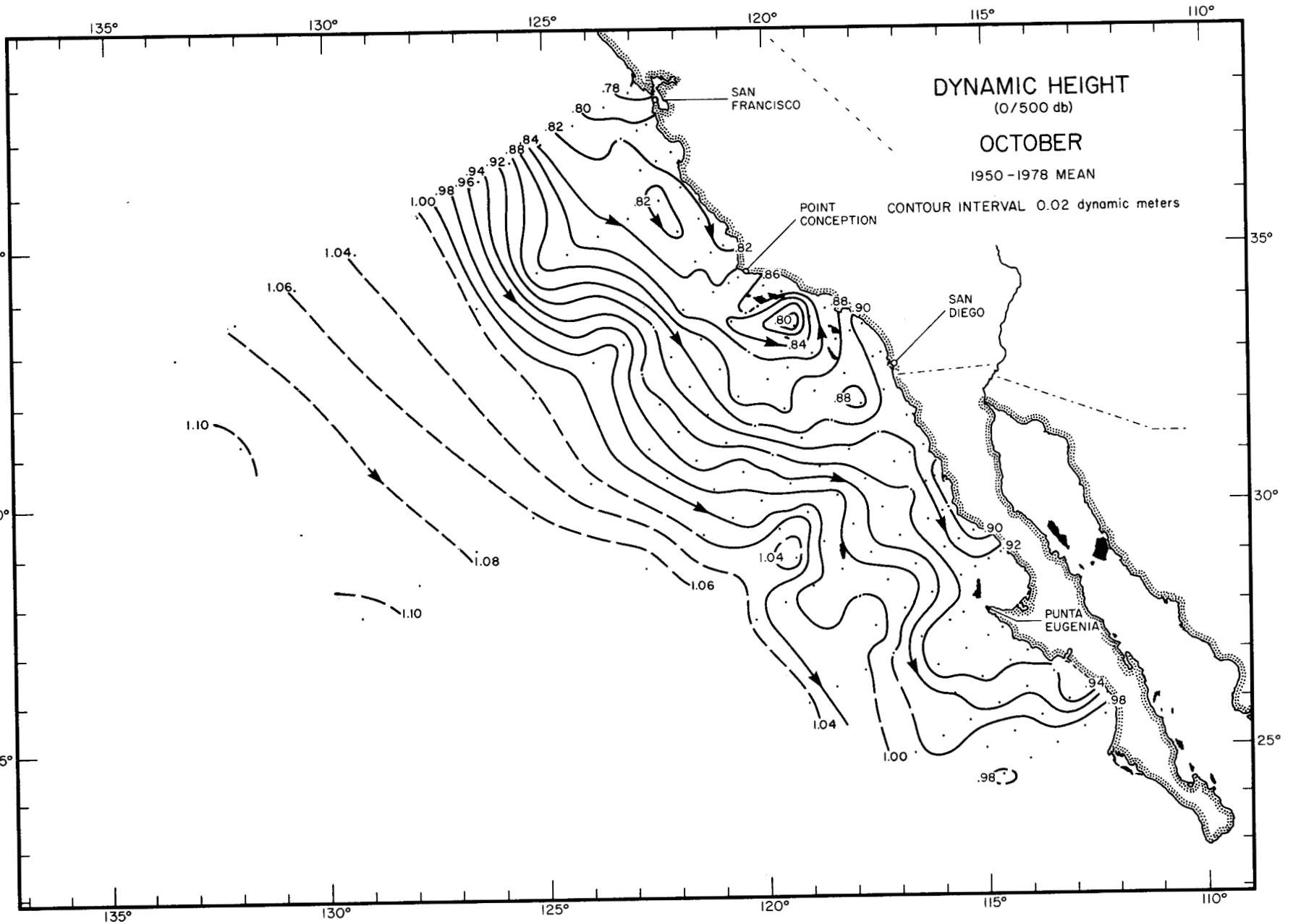


OXYGEN at 10 M
OCTOBER

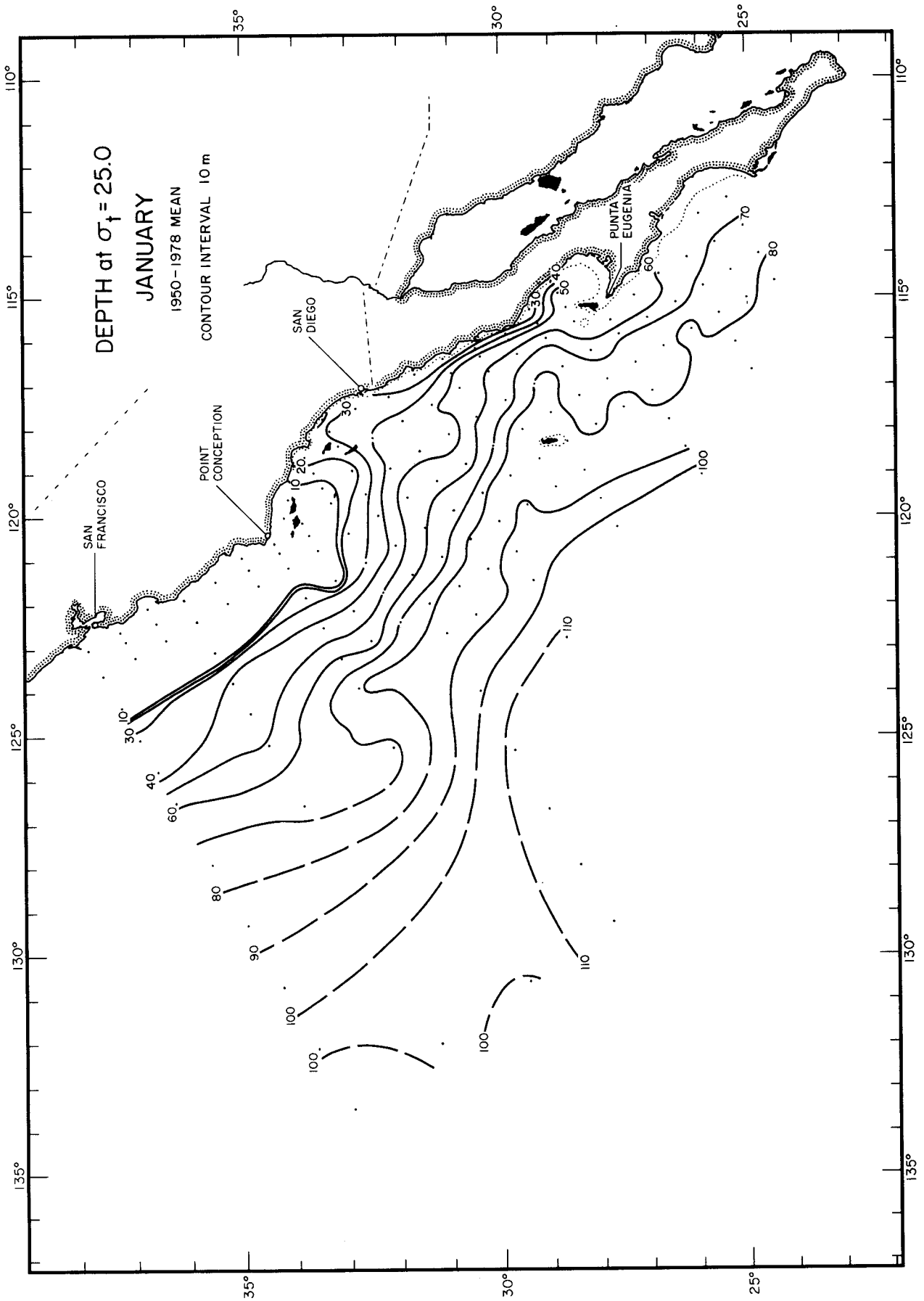


OXYGEN SATURATION at 10 M

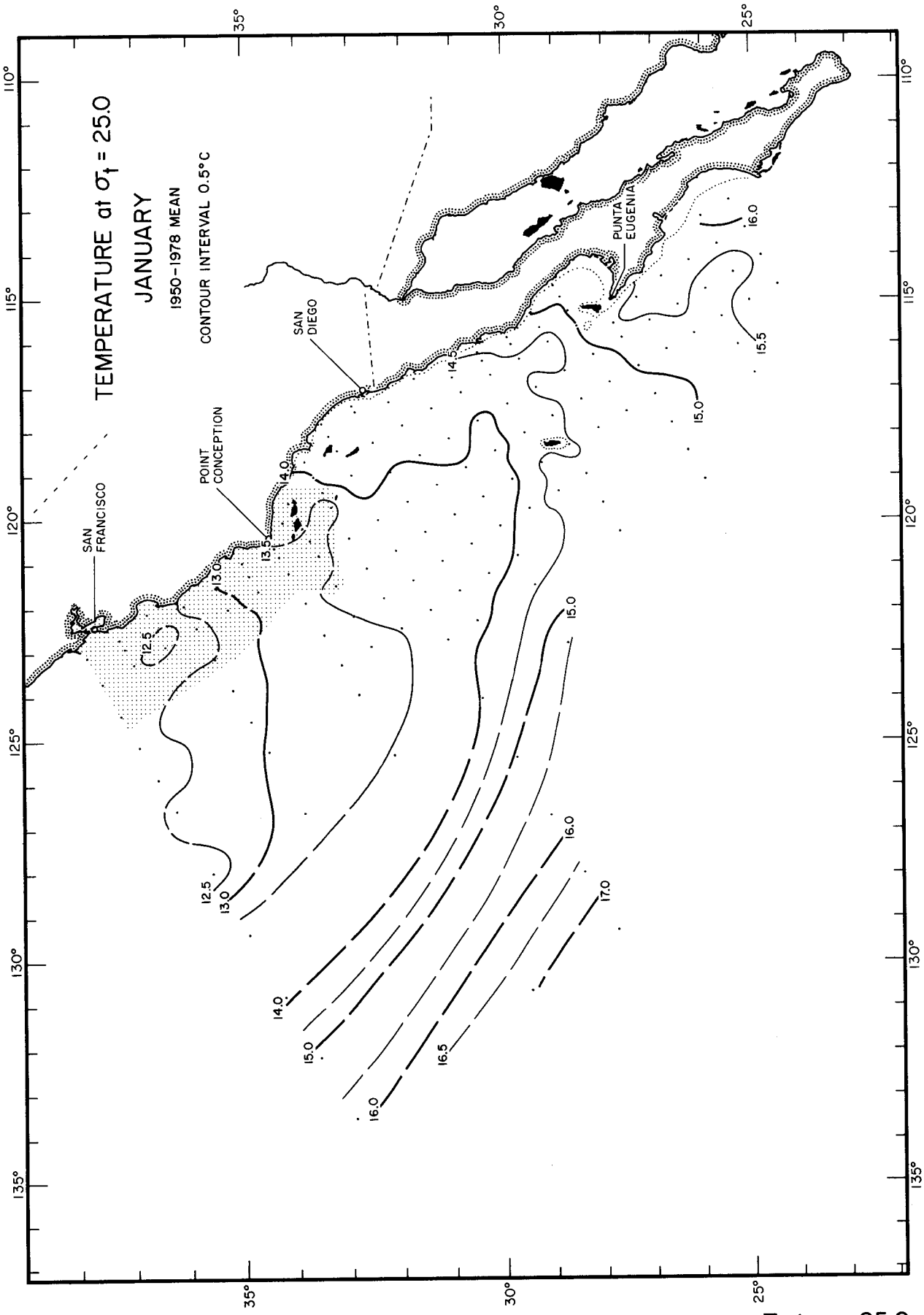
OCTOBER



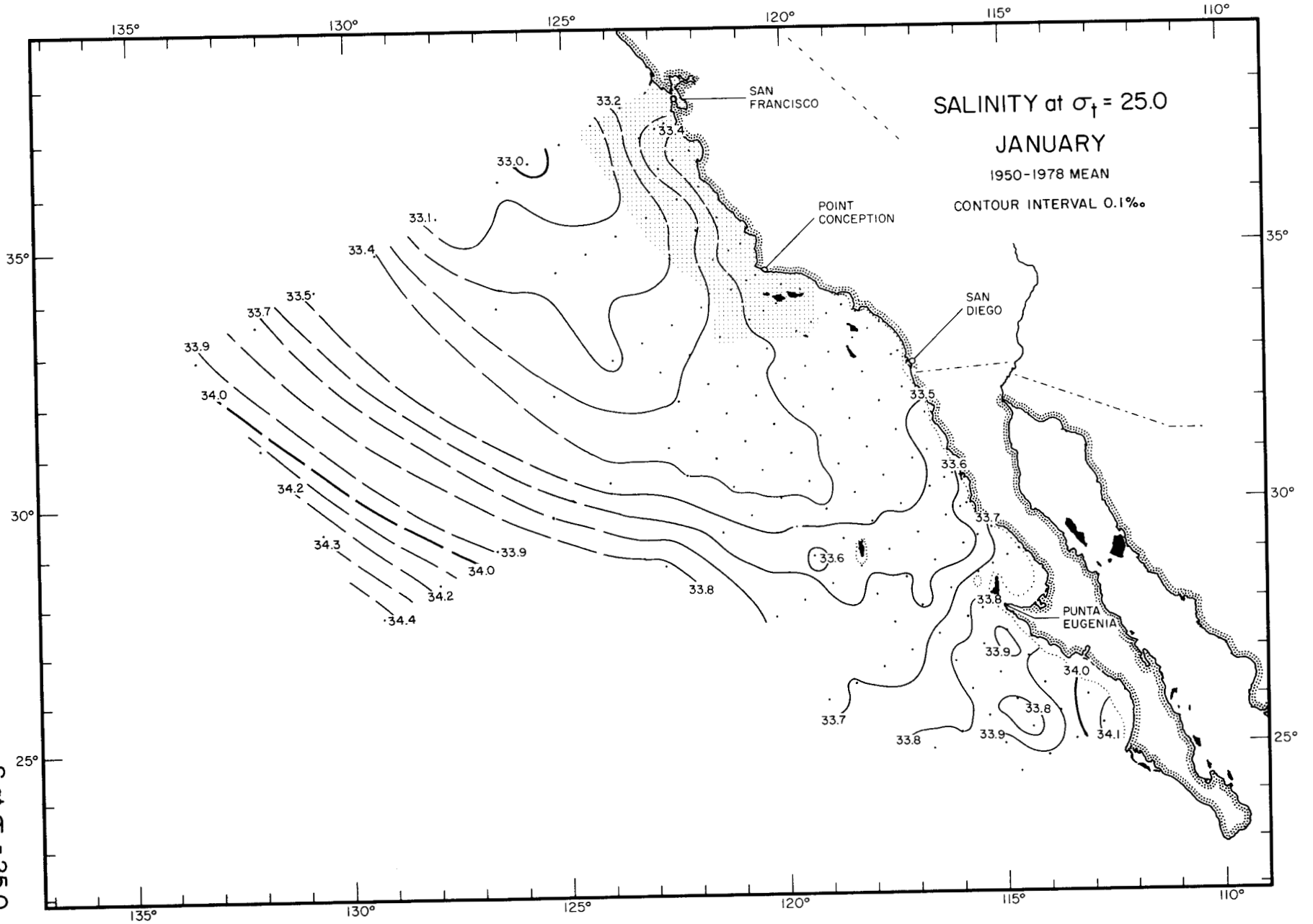
DYNAMIC HEIGHT
OCTOBER



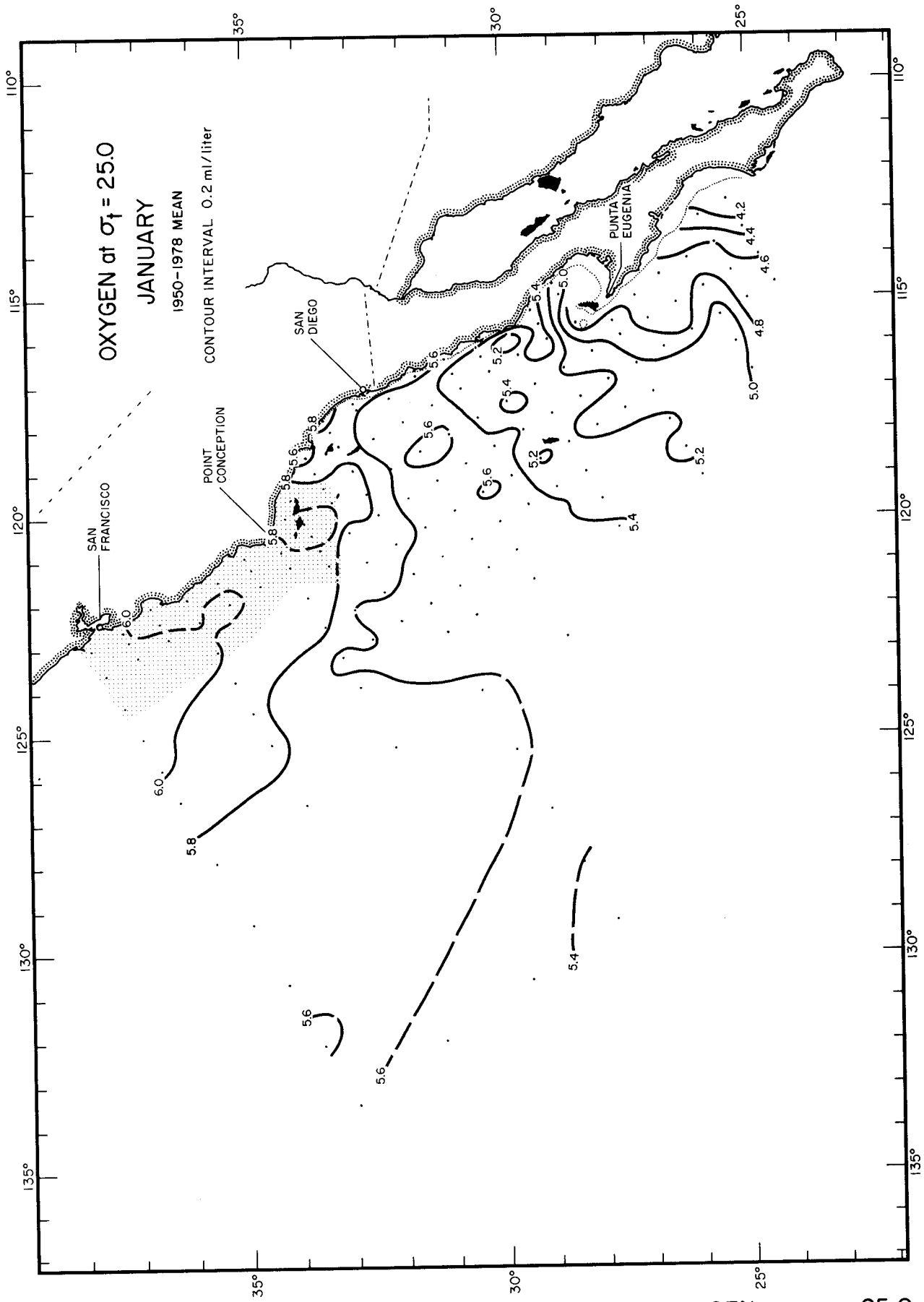
Depth at σ_t = 25.0
JANUARY



T at σ_t = 25.0
JANUARY



S at σ_t = 25.0
JANUARY



OXYGEN at σ_t = 25.0
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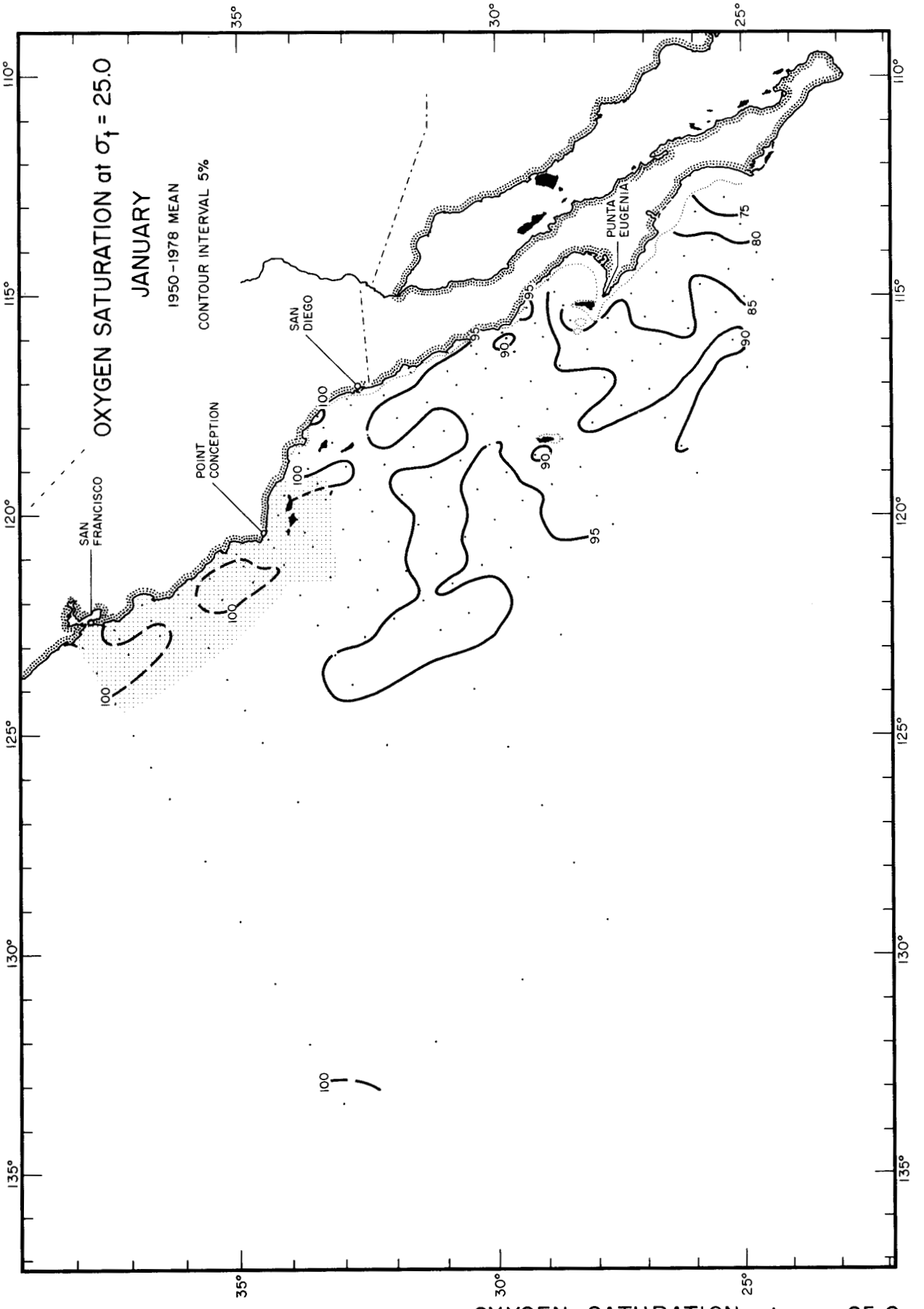
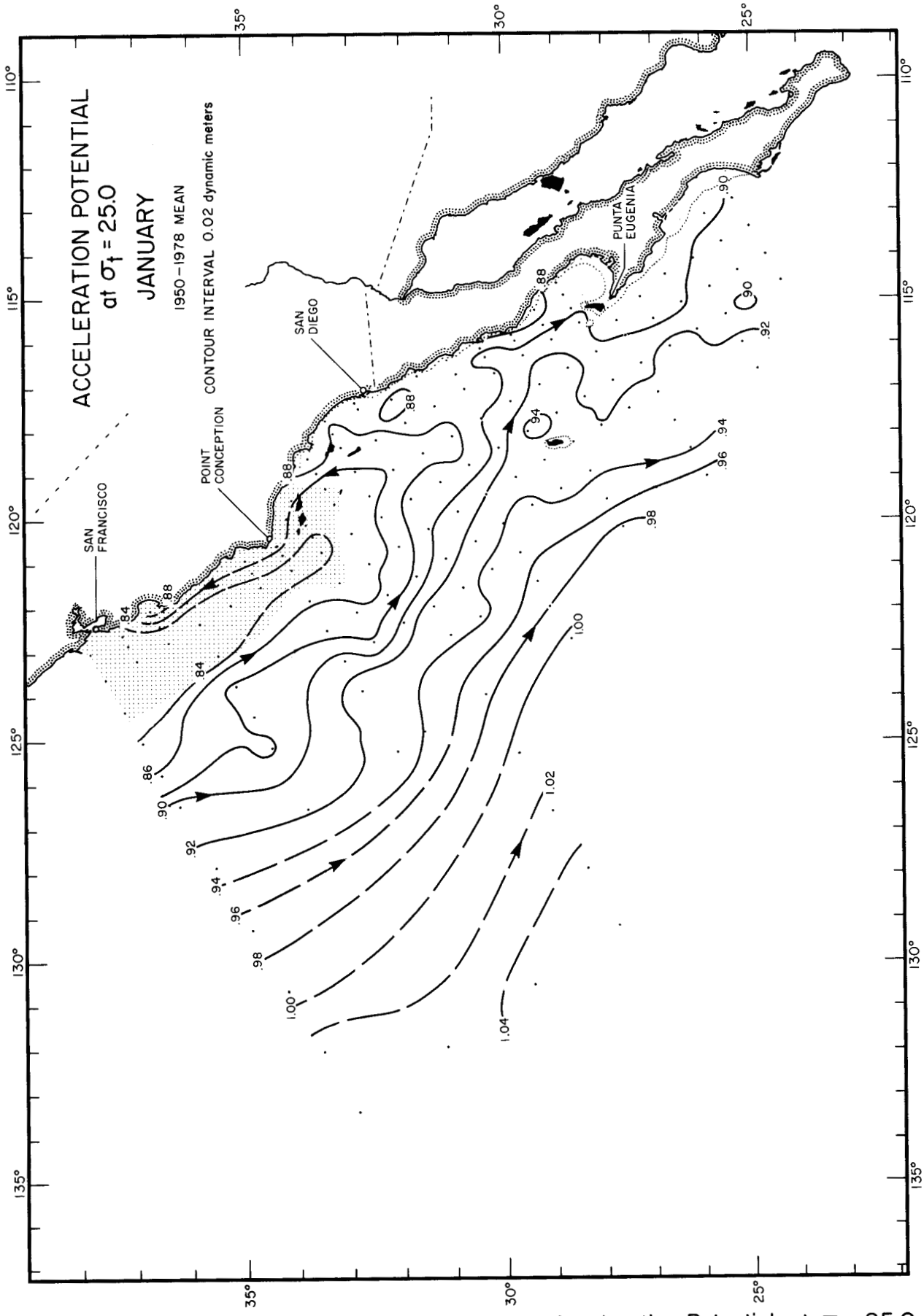
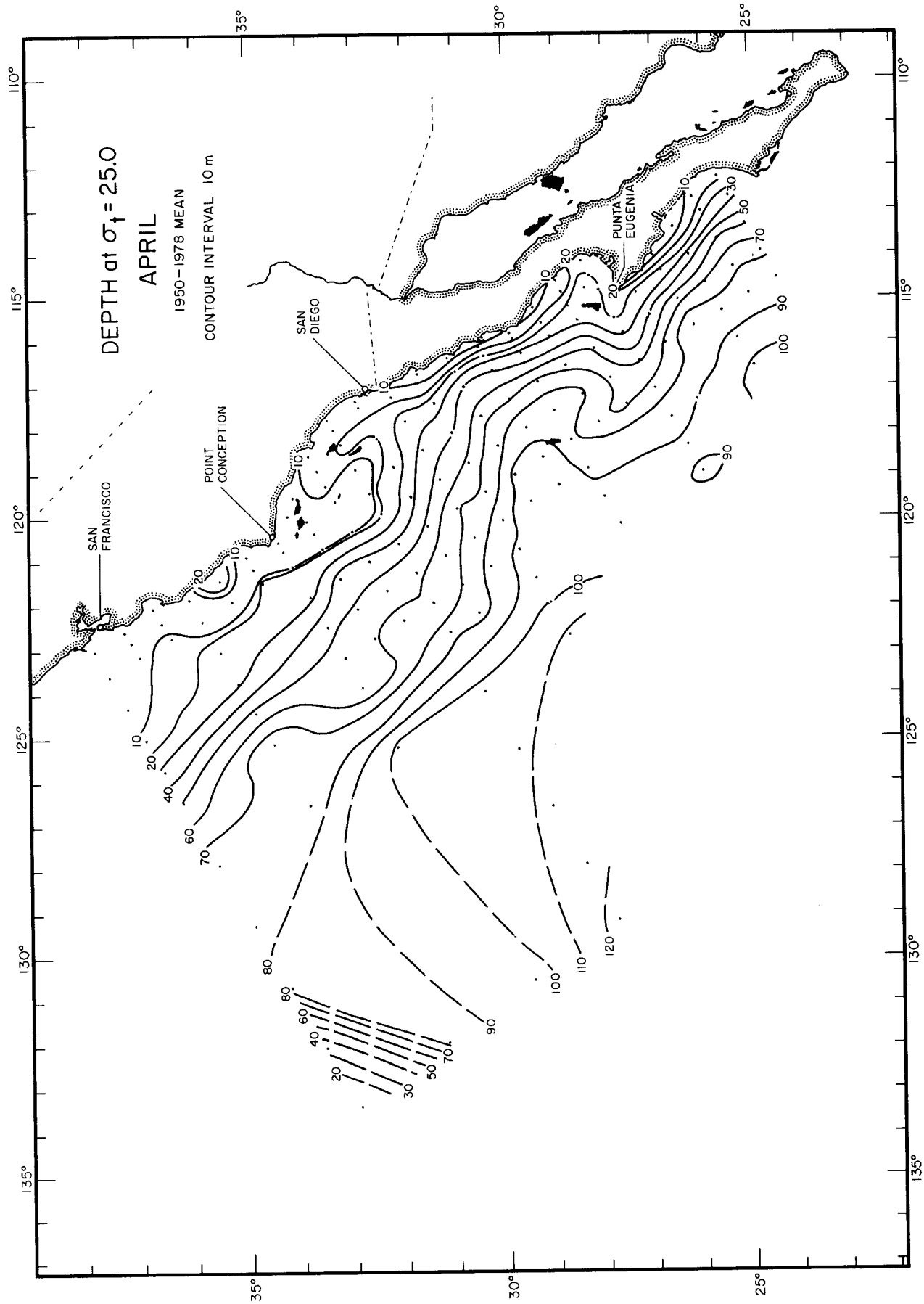


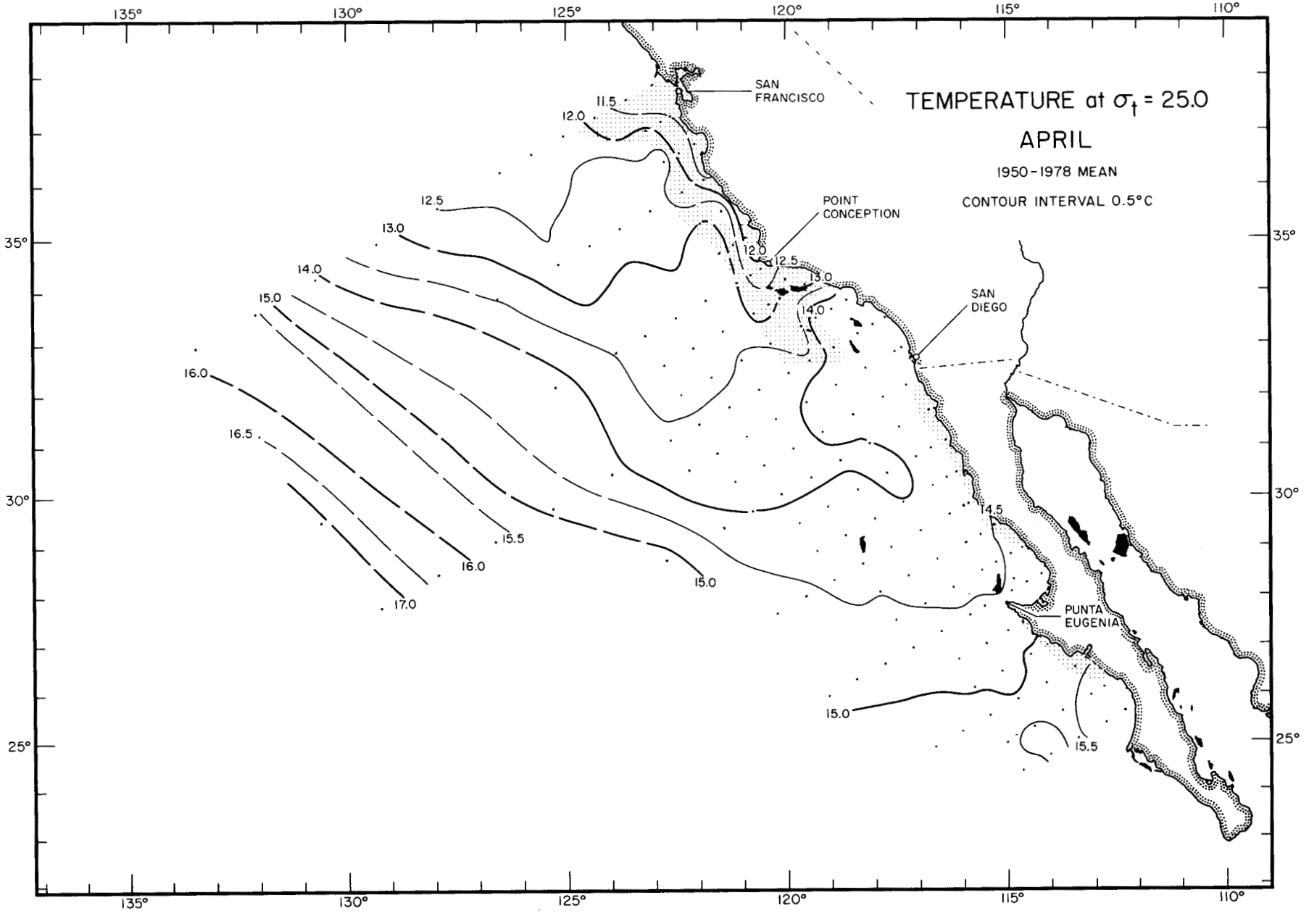
OXYGEN SATURATION at σ_t = 25.0
JANUARY



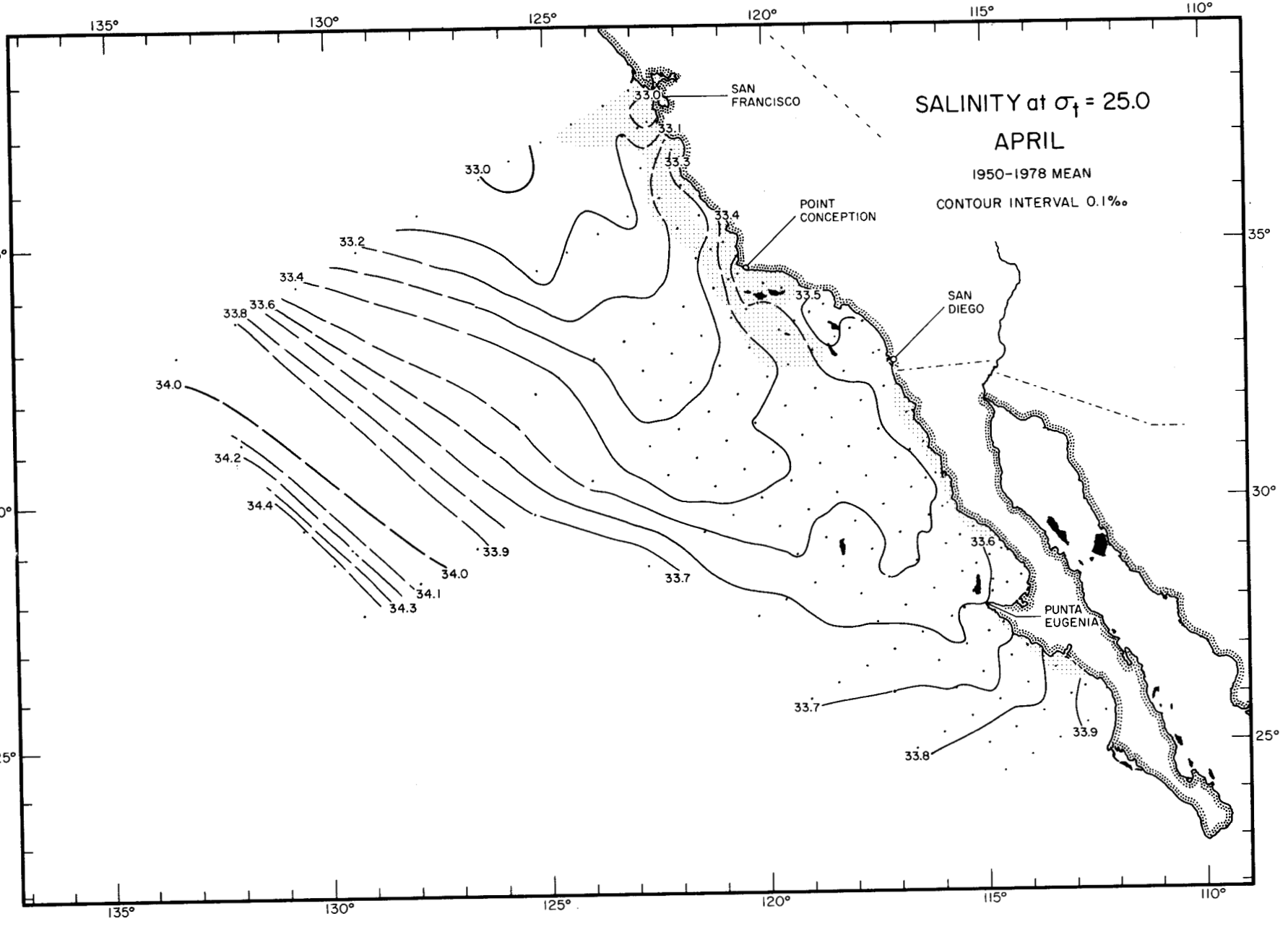
Acceleration Potential at σ_t = 25.0
JANUARY



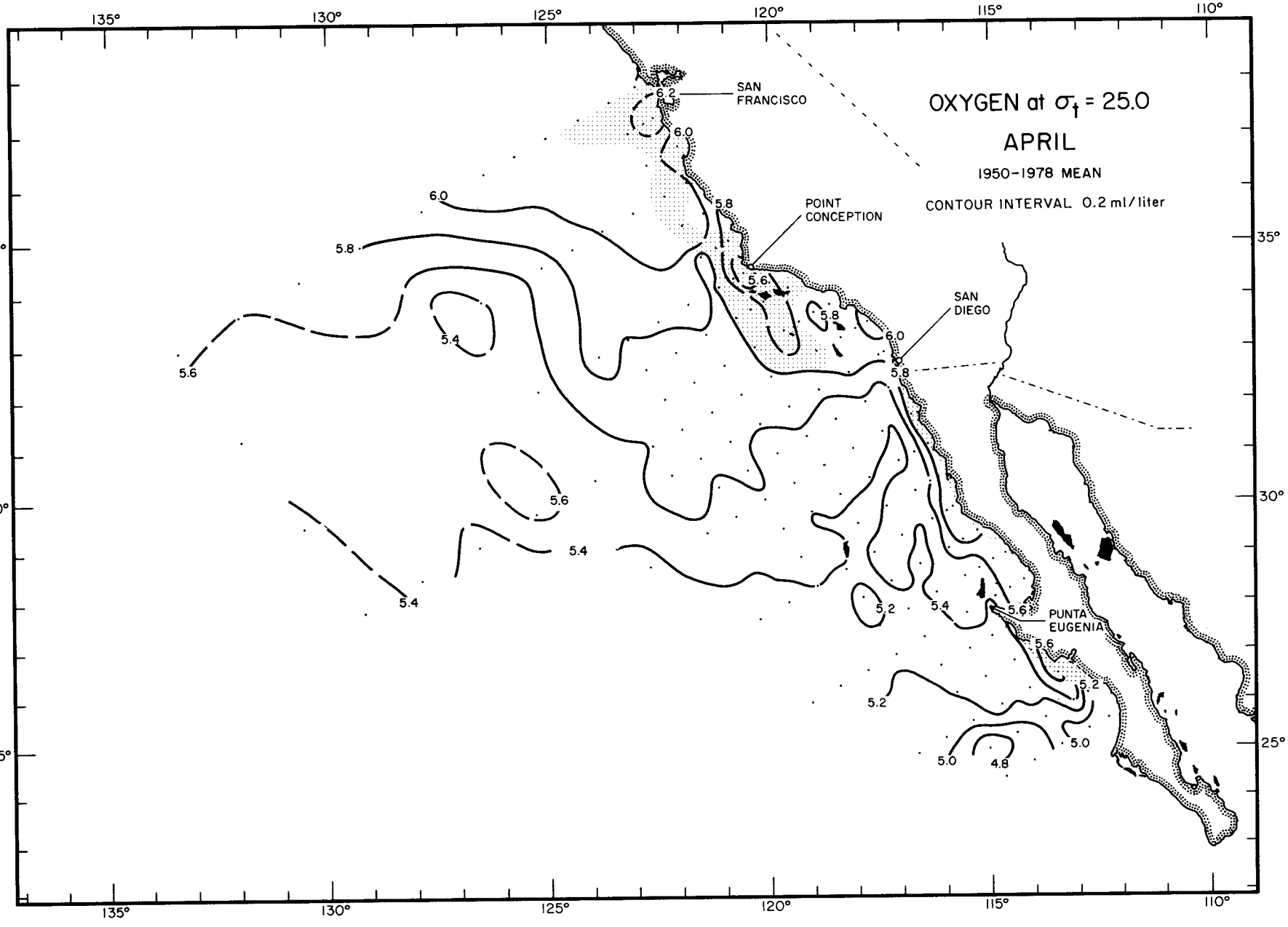
Depth at σ_t = 25.0
APRIL



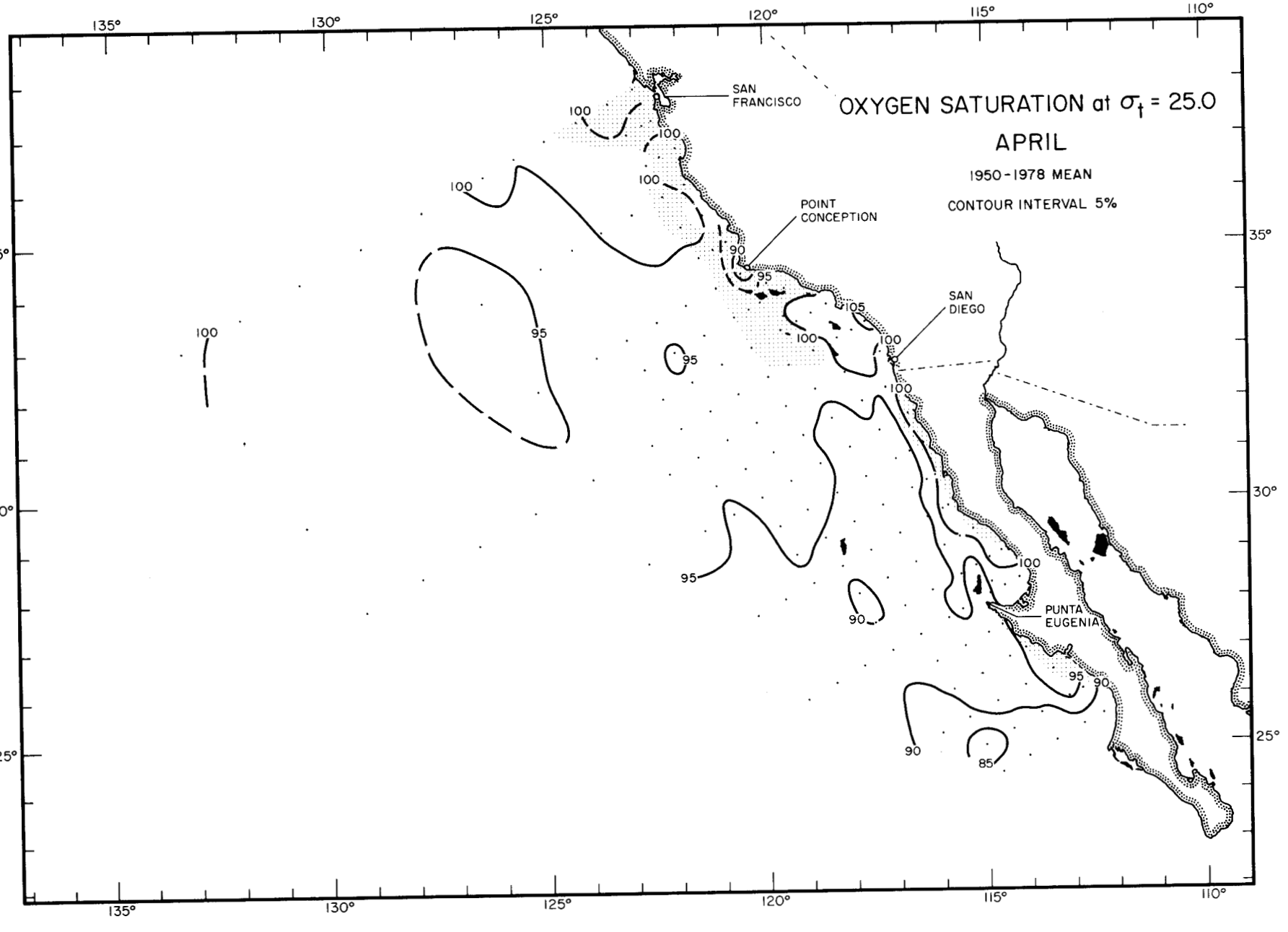
T at σ_t = 25.0
APRIL



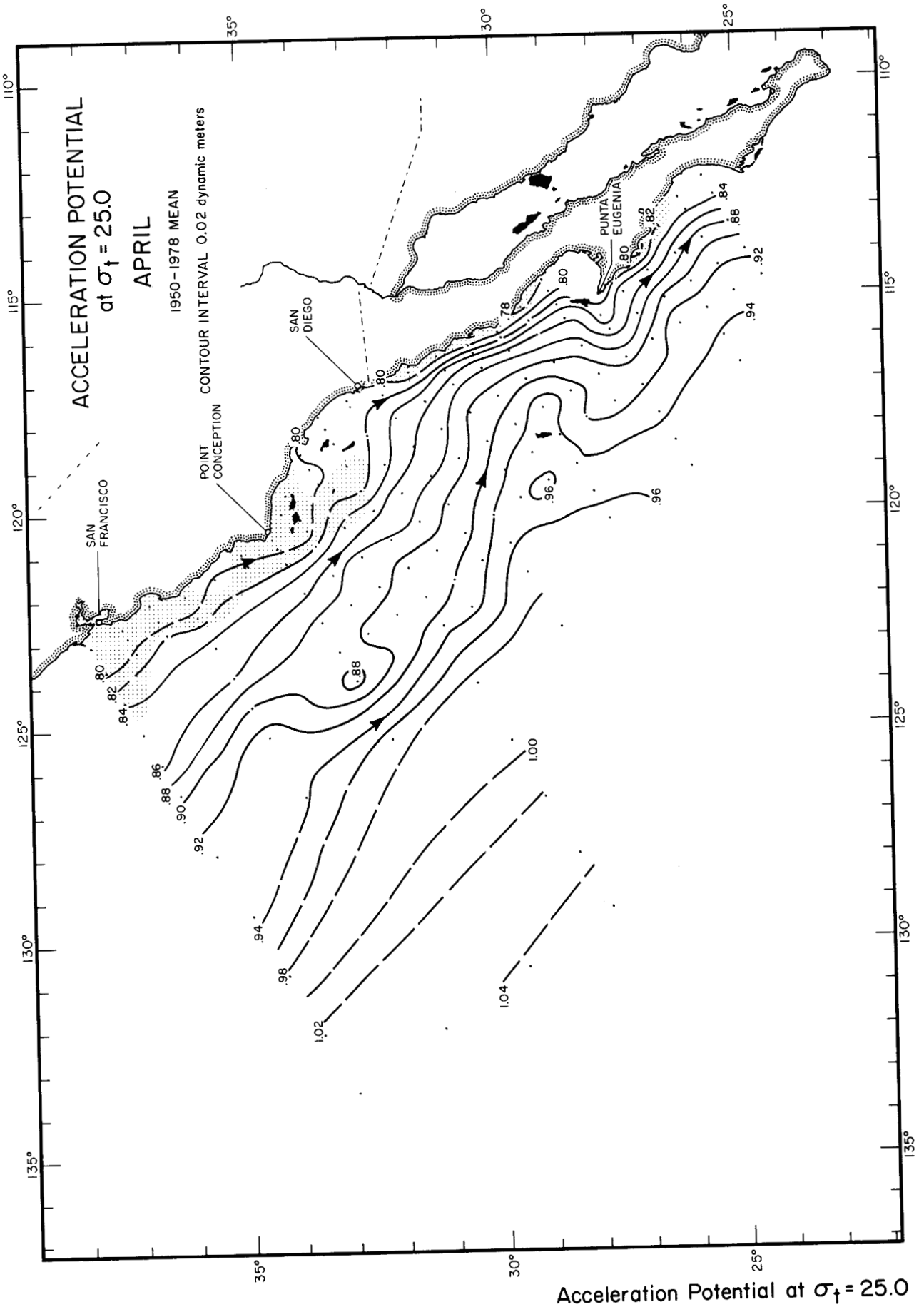
S at σ_t = 25.0
APRIL



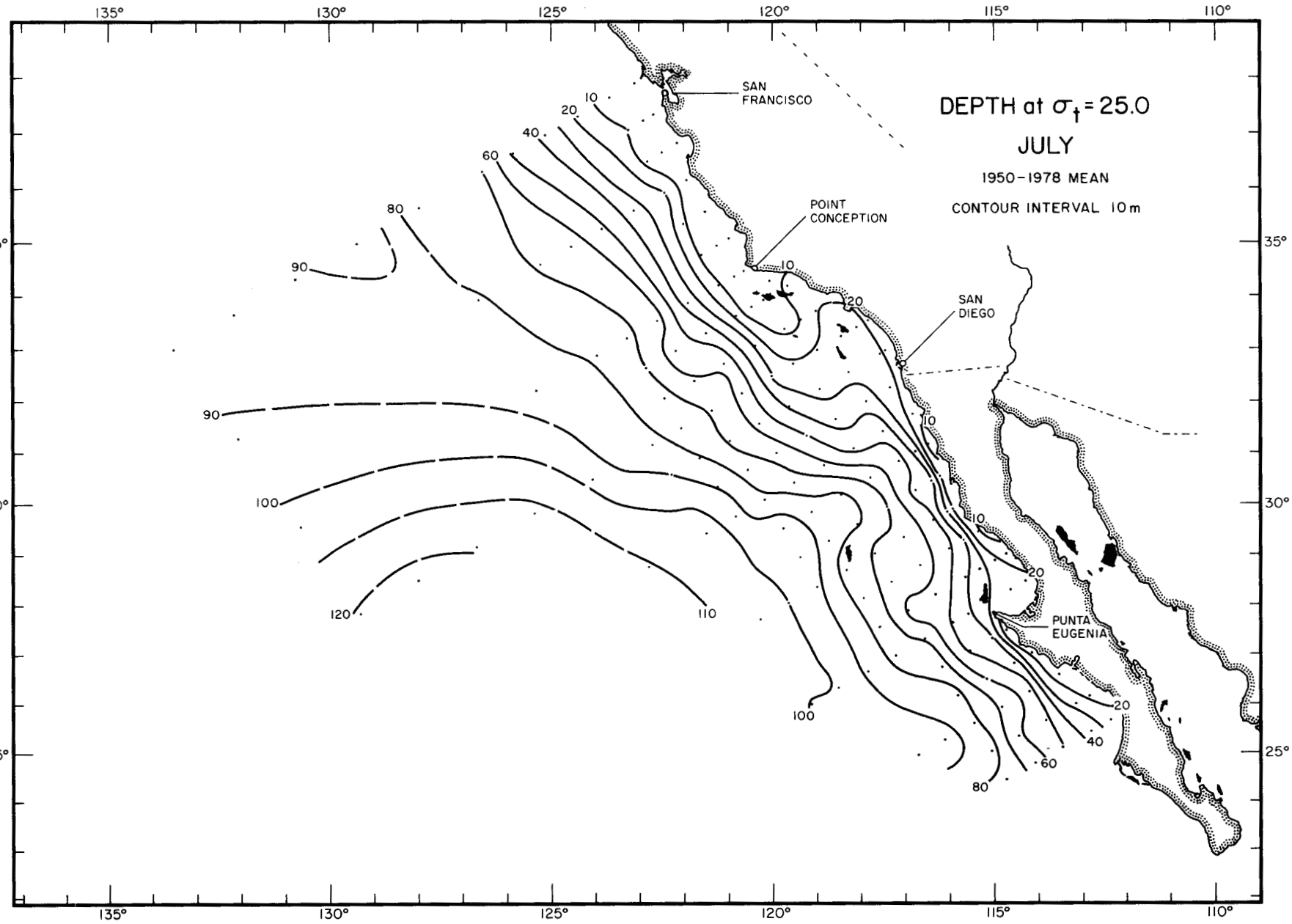
OXYGEN at σ_t = 25.0
APRIL



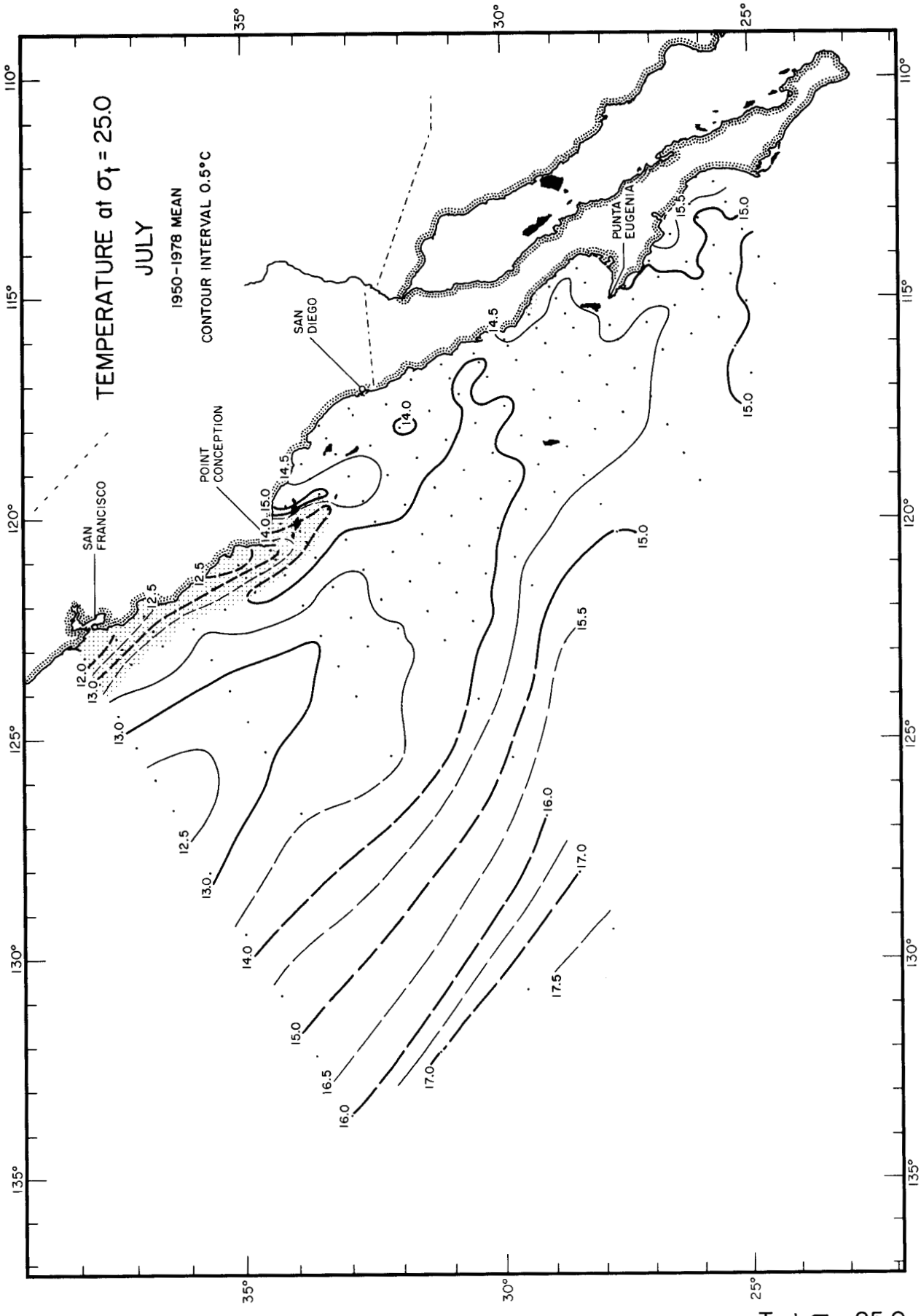
OXYGEN SATURATION at σ_t = 25.0
APRIL



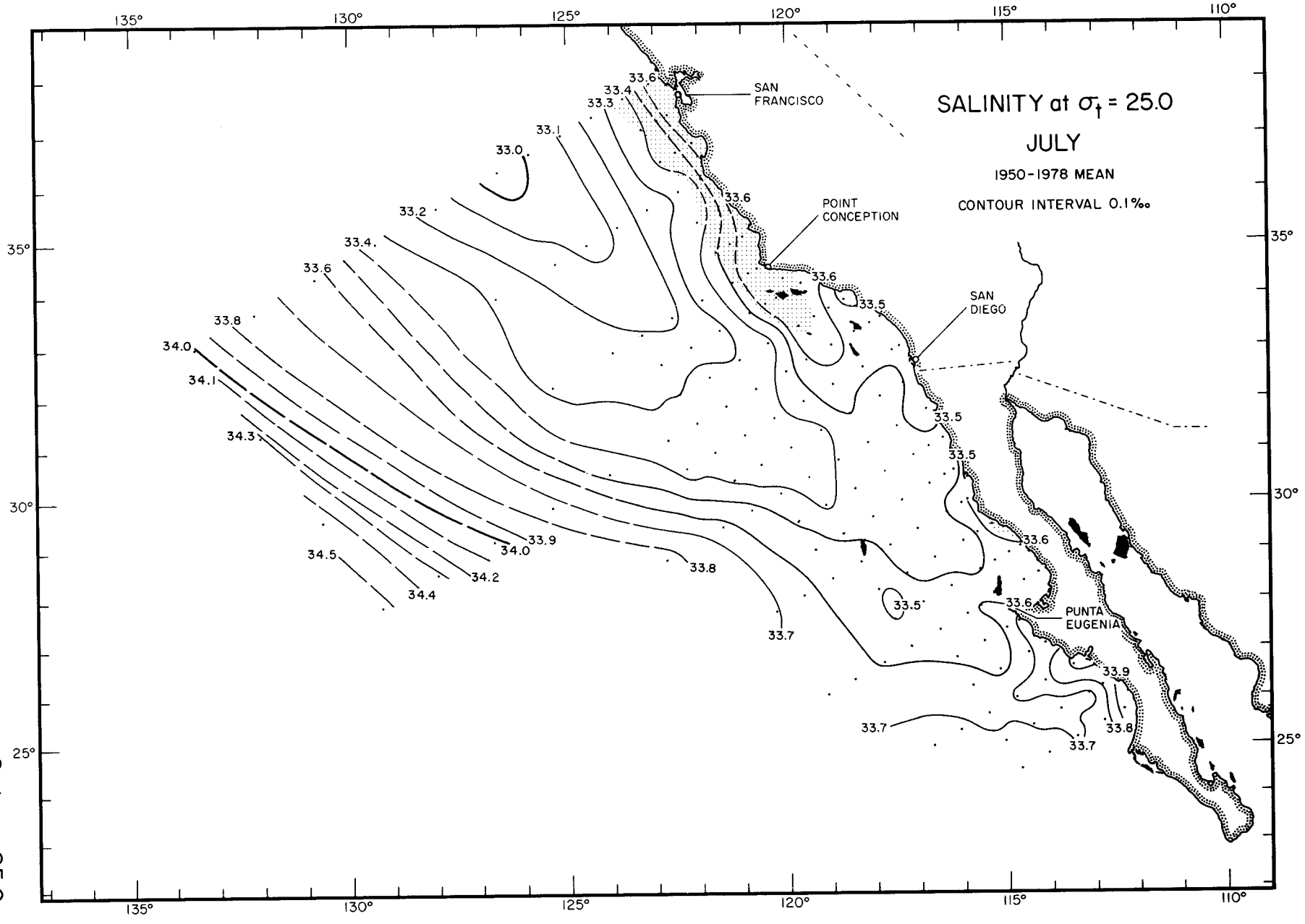
Acceleration Potential at σ_t = 25.0
APRIL



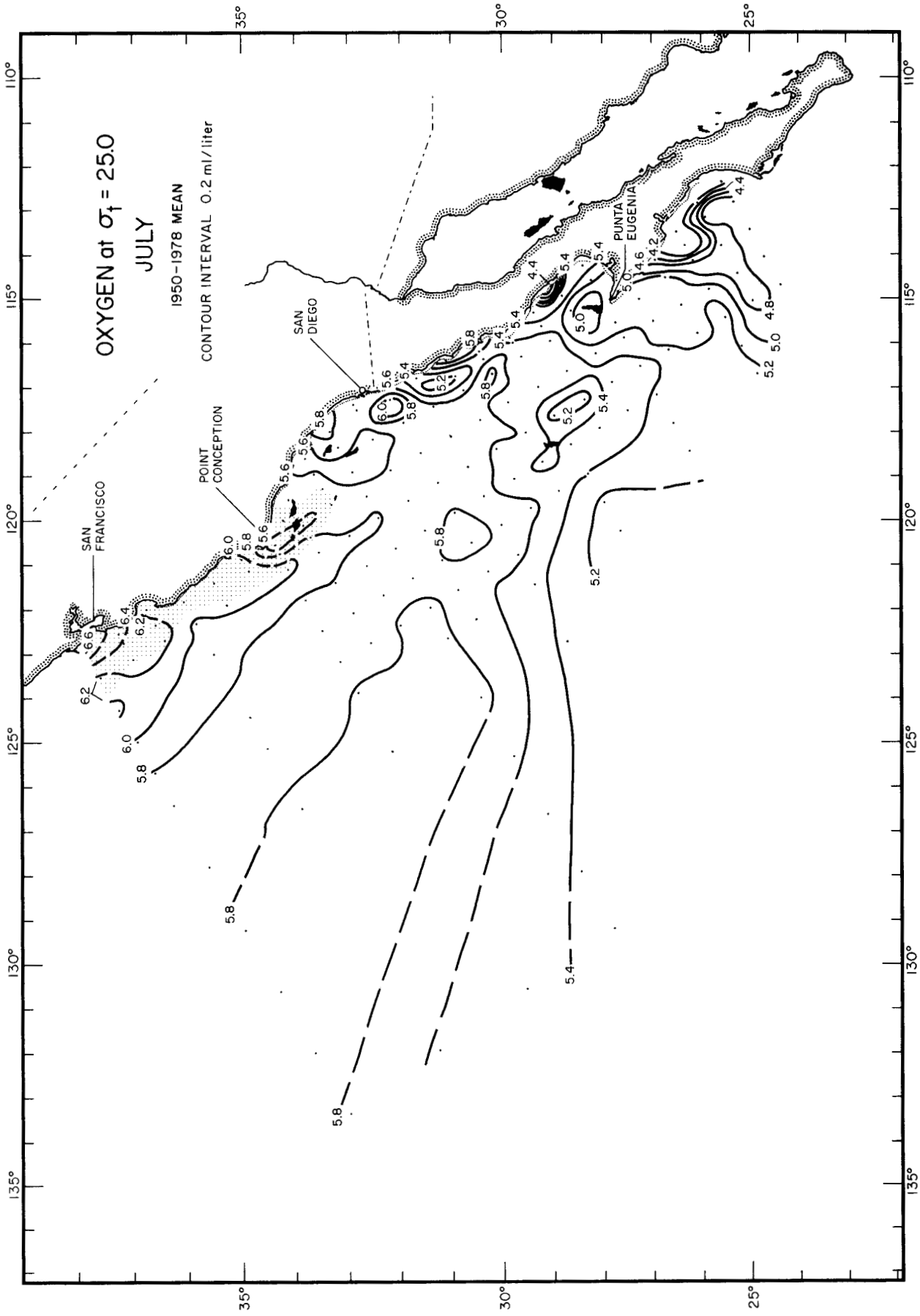
Depth at σ_t = 25.0
JULY



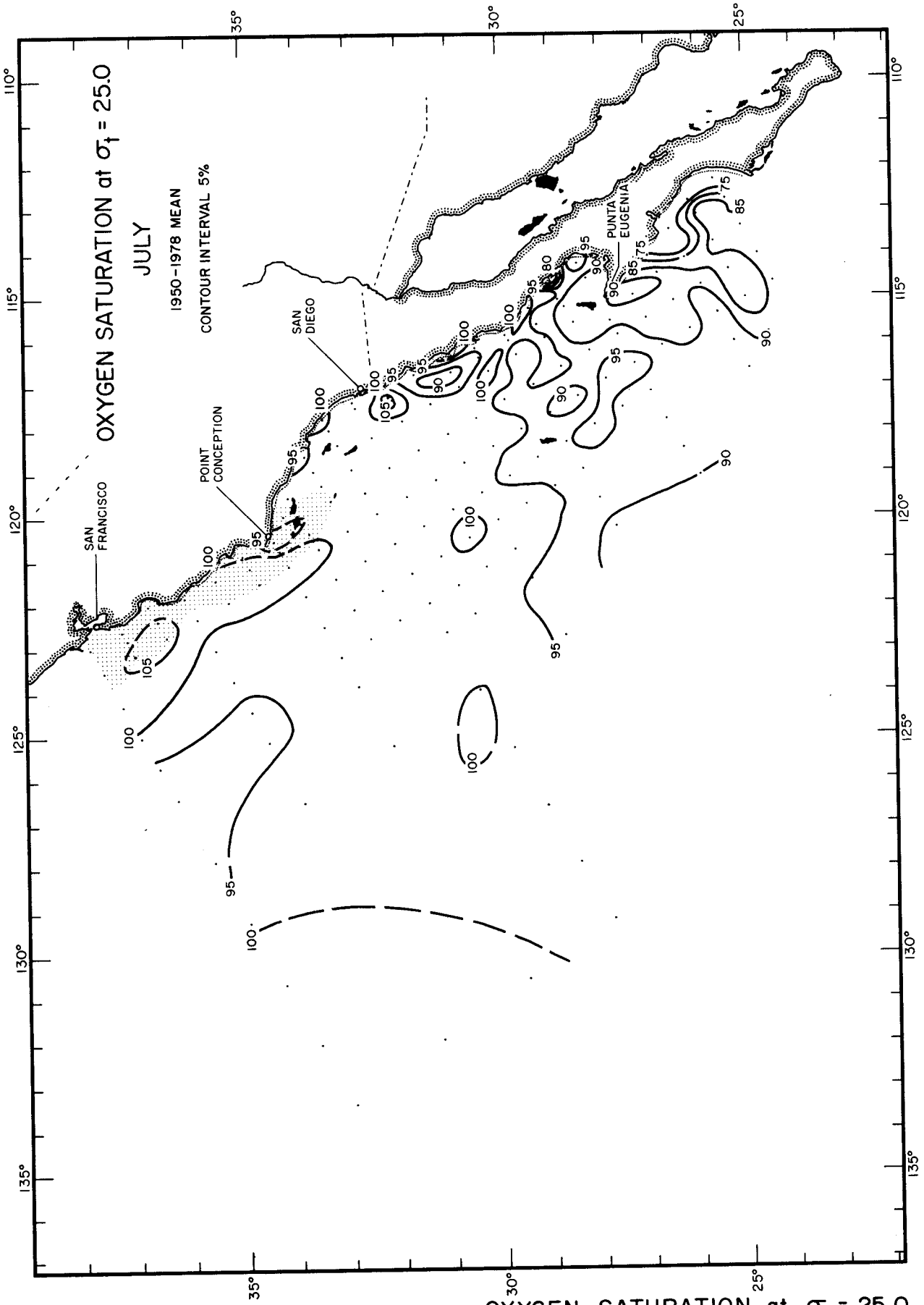
T at σ_t = 25.0
JULY



S at σ_t = 25.0
JULY

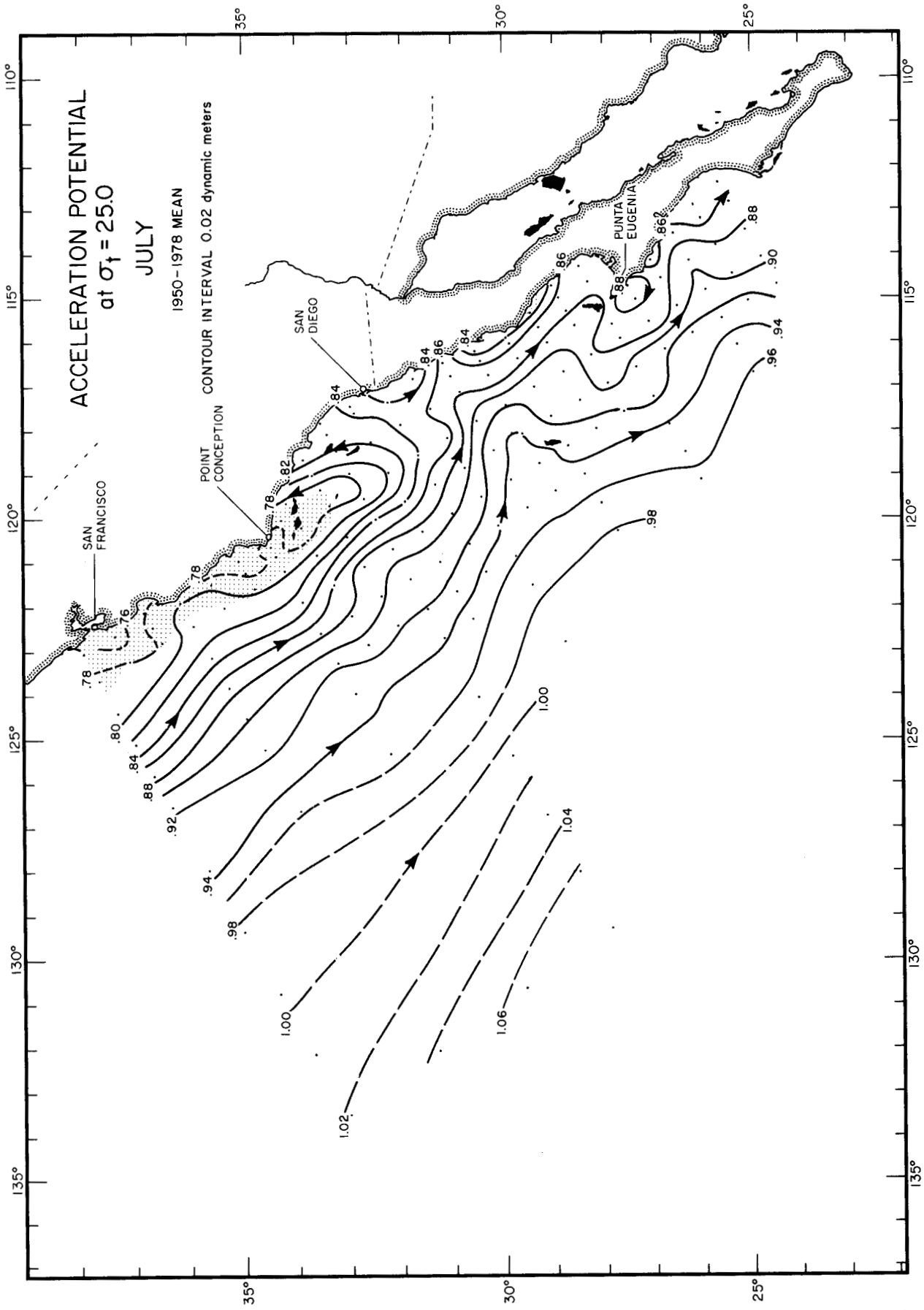


OXYGEN at σ_t = 25.0
JULY

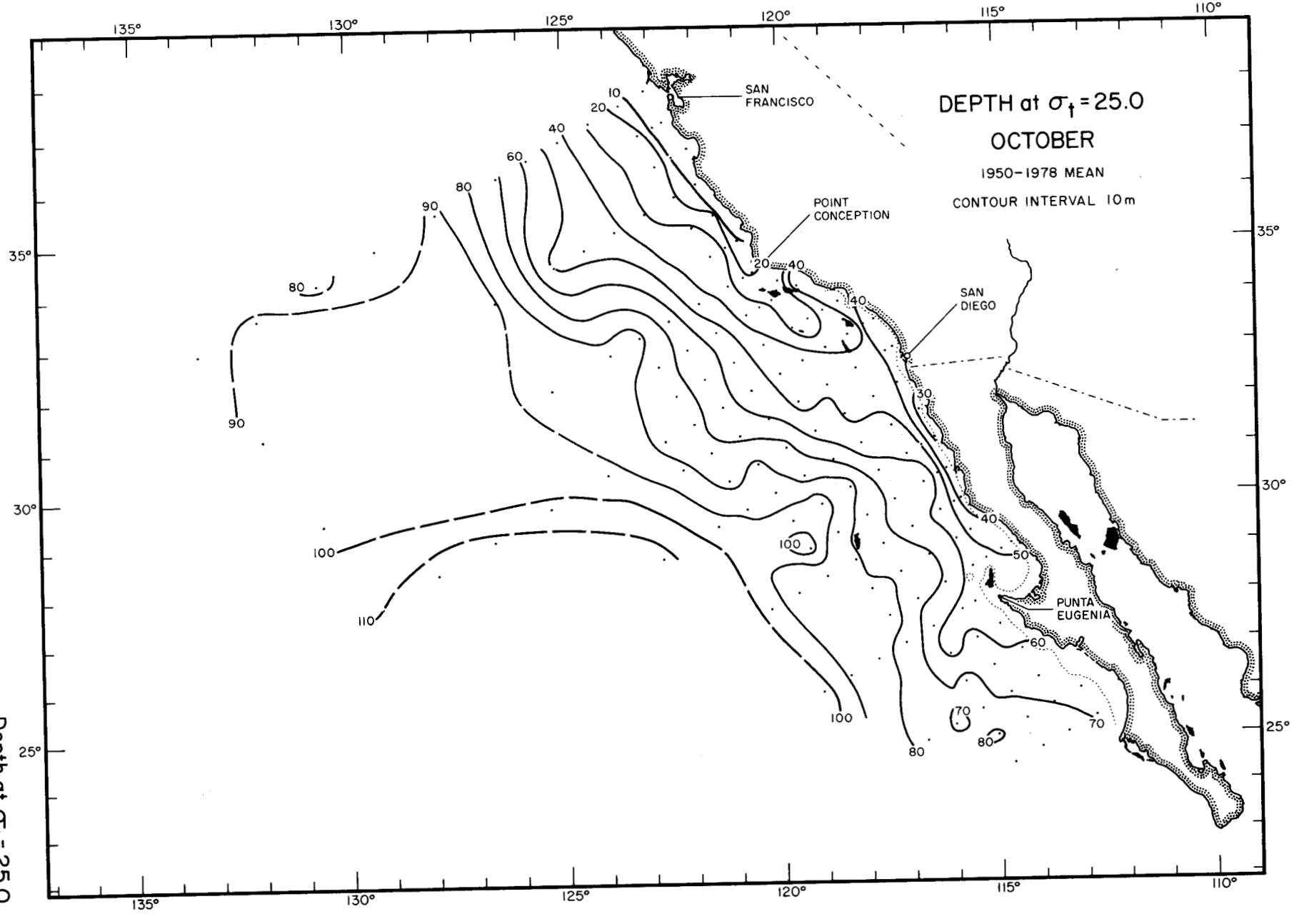


OXYGEN SATURATION at σ_t = 25.0

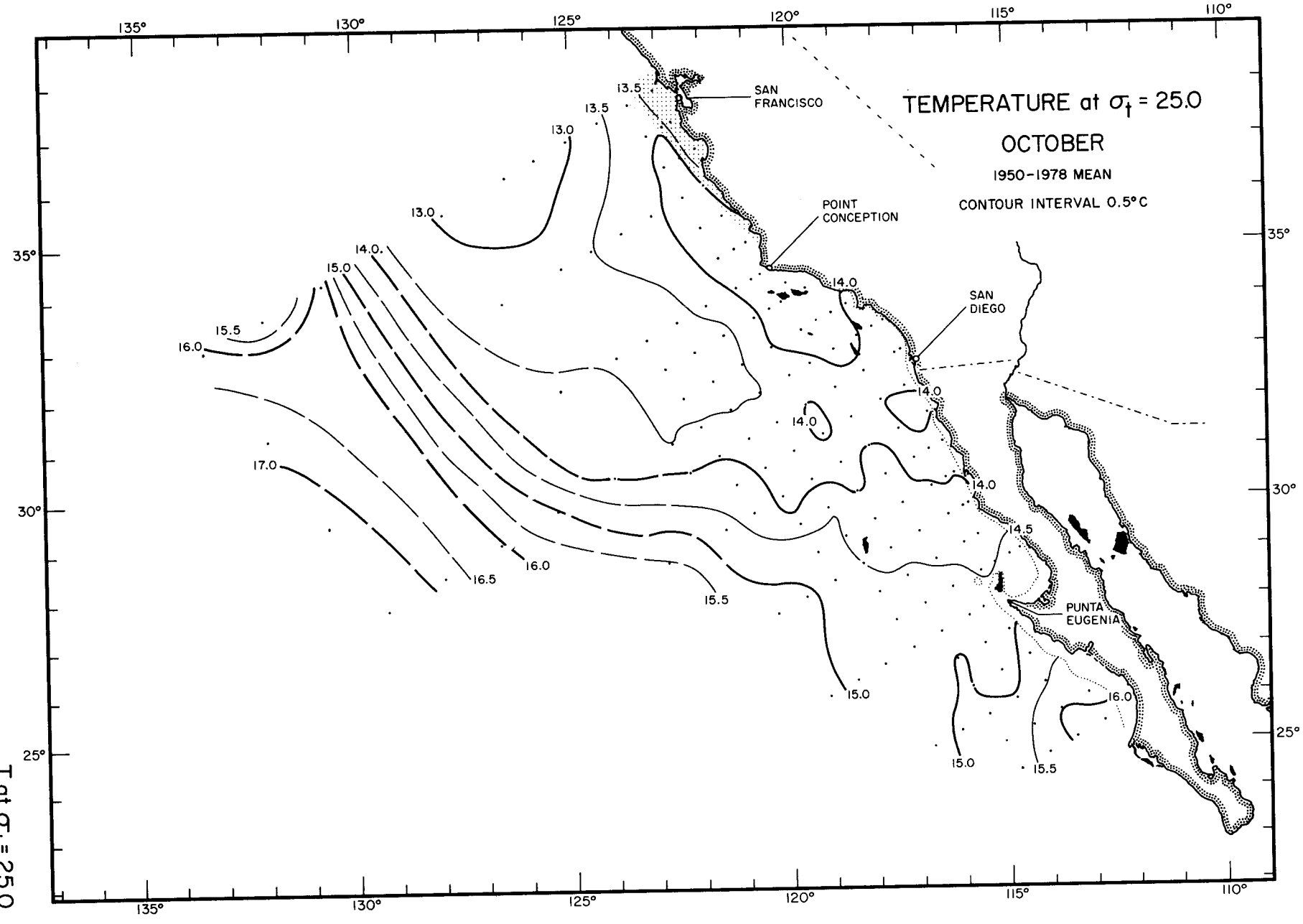
JULY



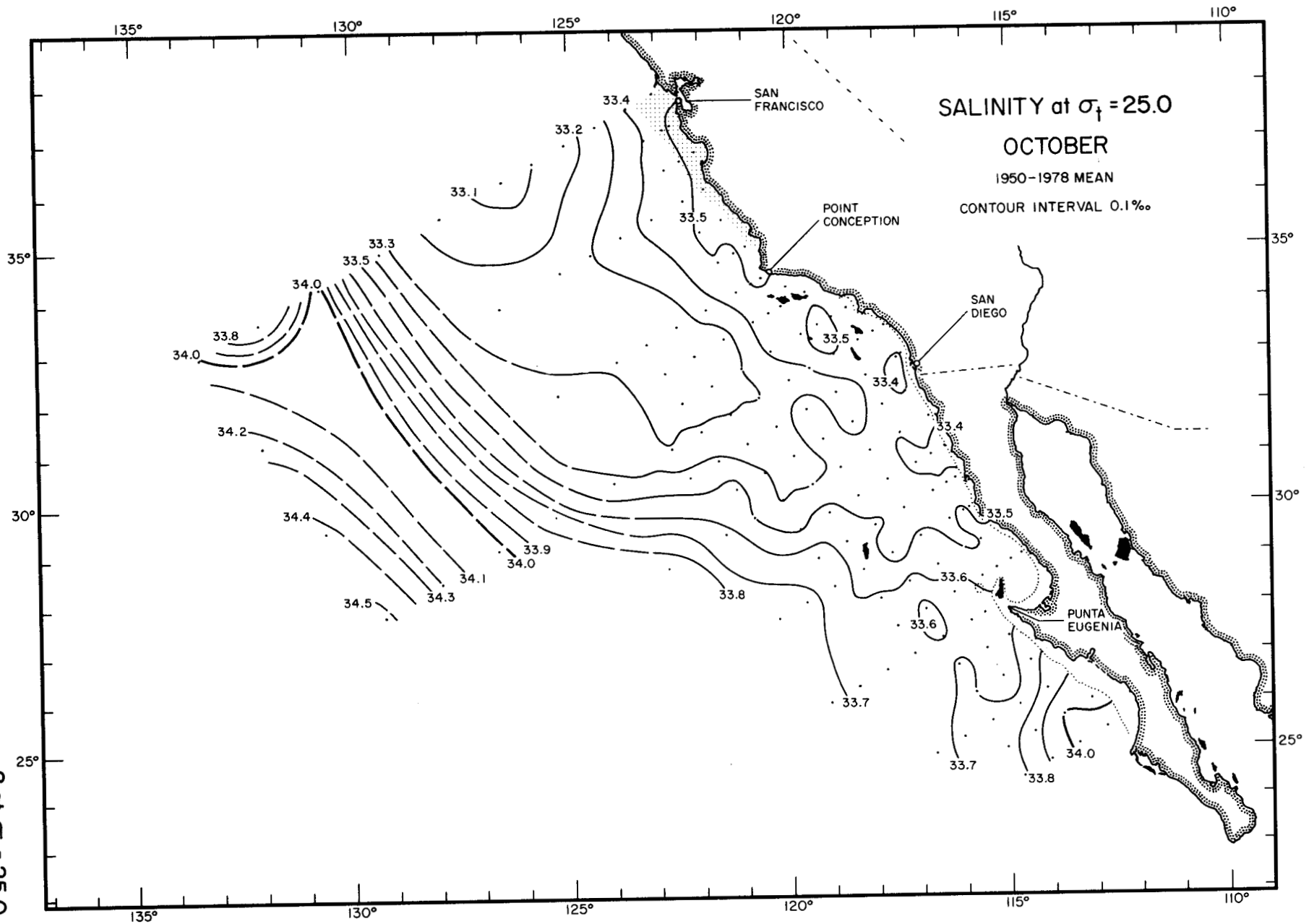
Acceleration Potential at σ_t = 25.0
JULY



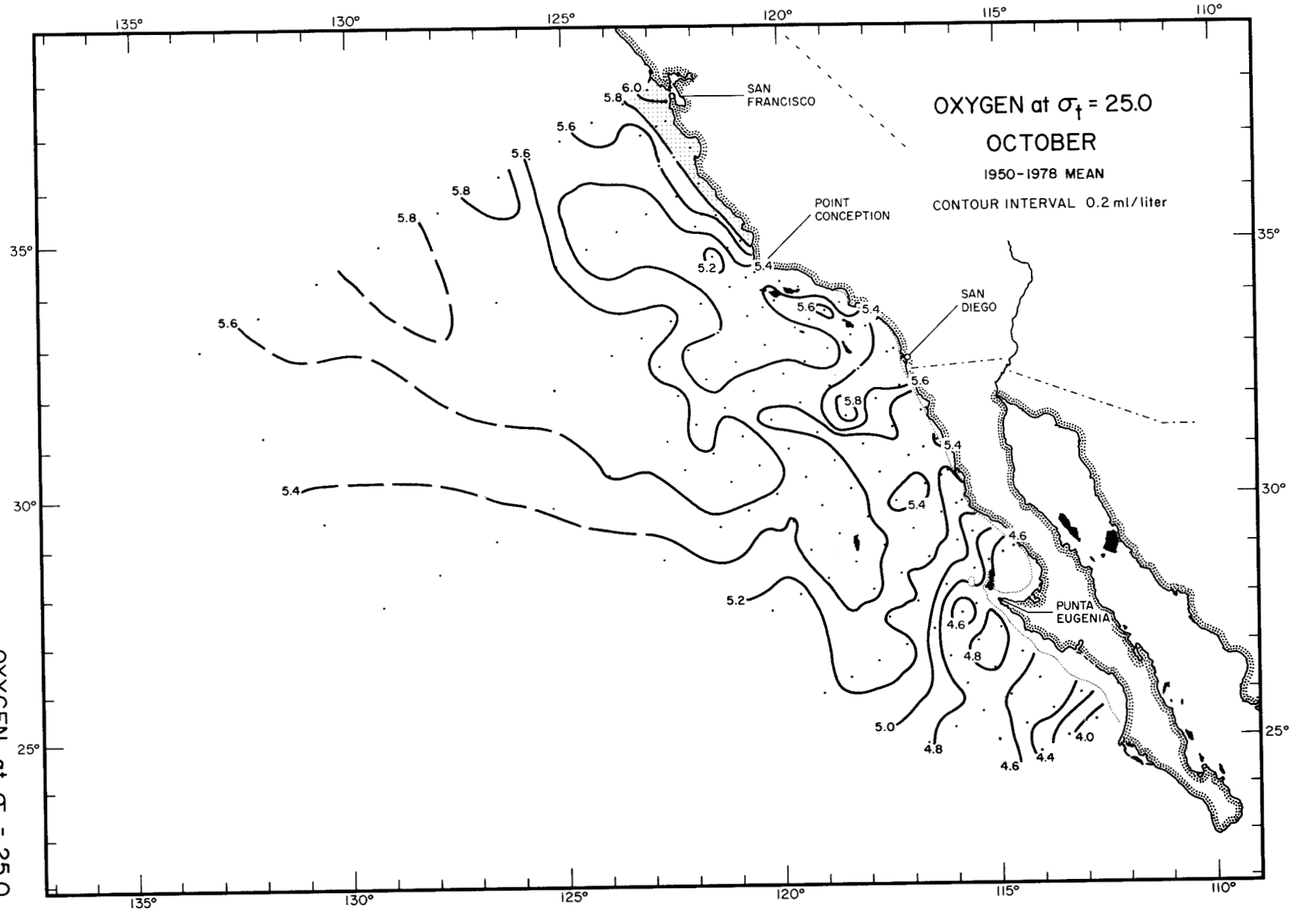
Depth at σ_t = 25.0
OCTOBER



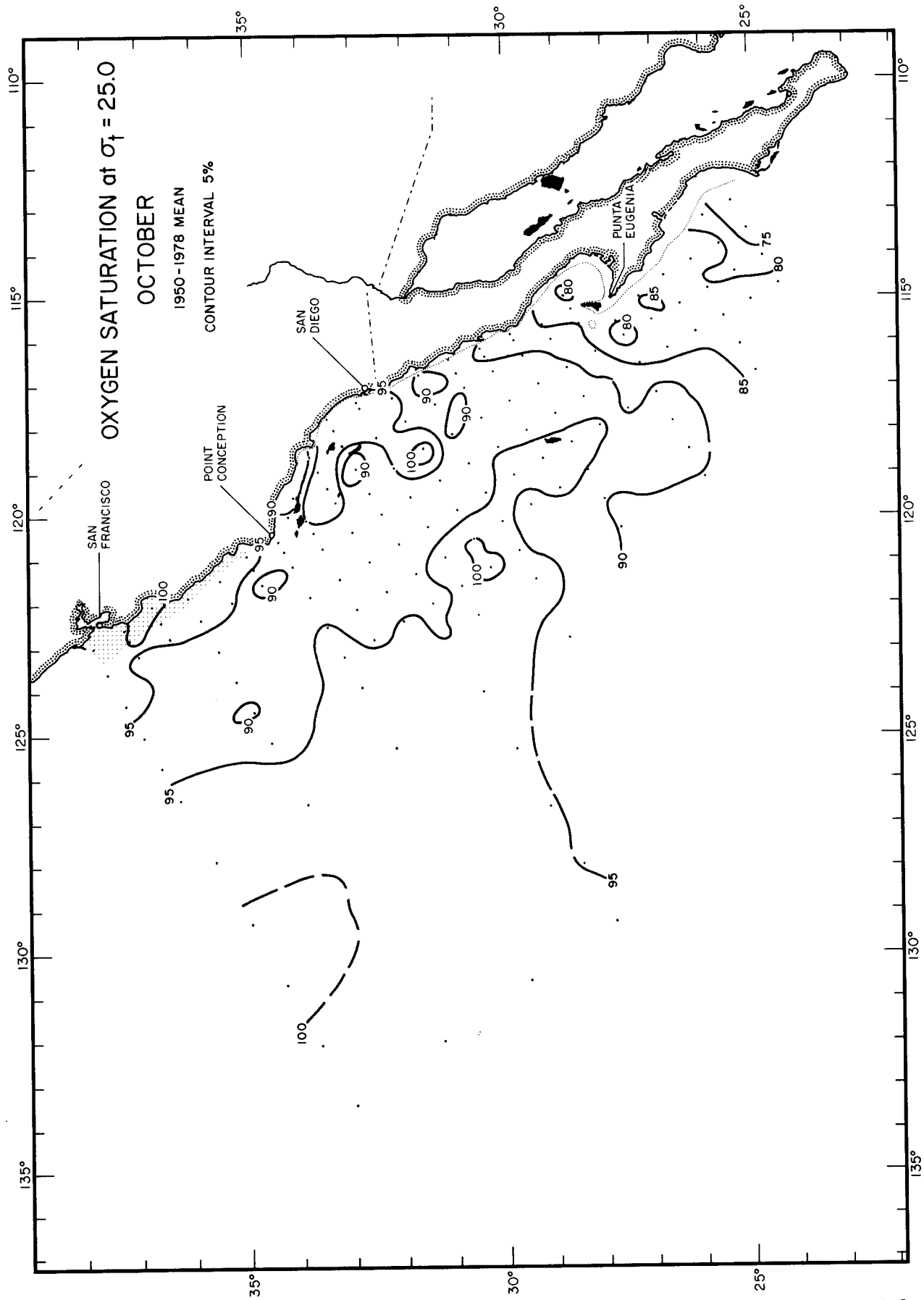
T at σ_t = 25.0
OCTOBER



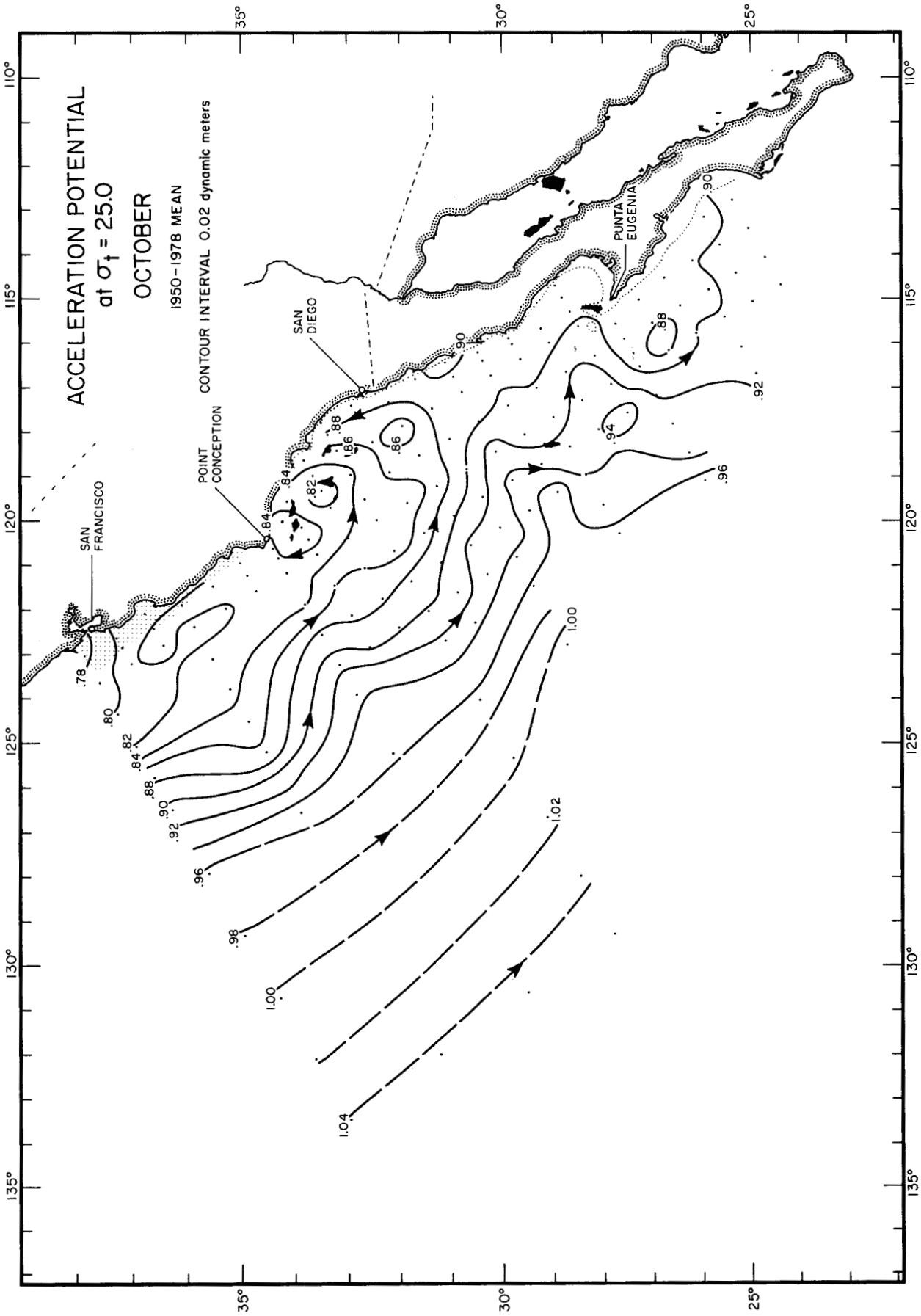
S at σ_t = 25.0
OCTOBER



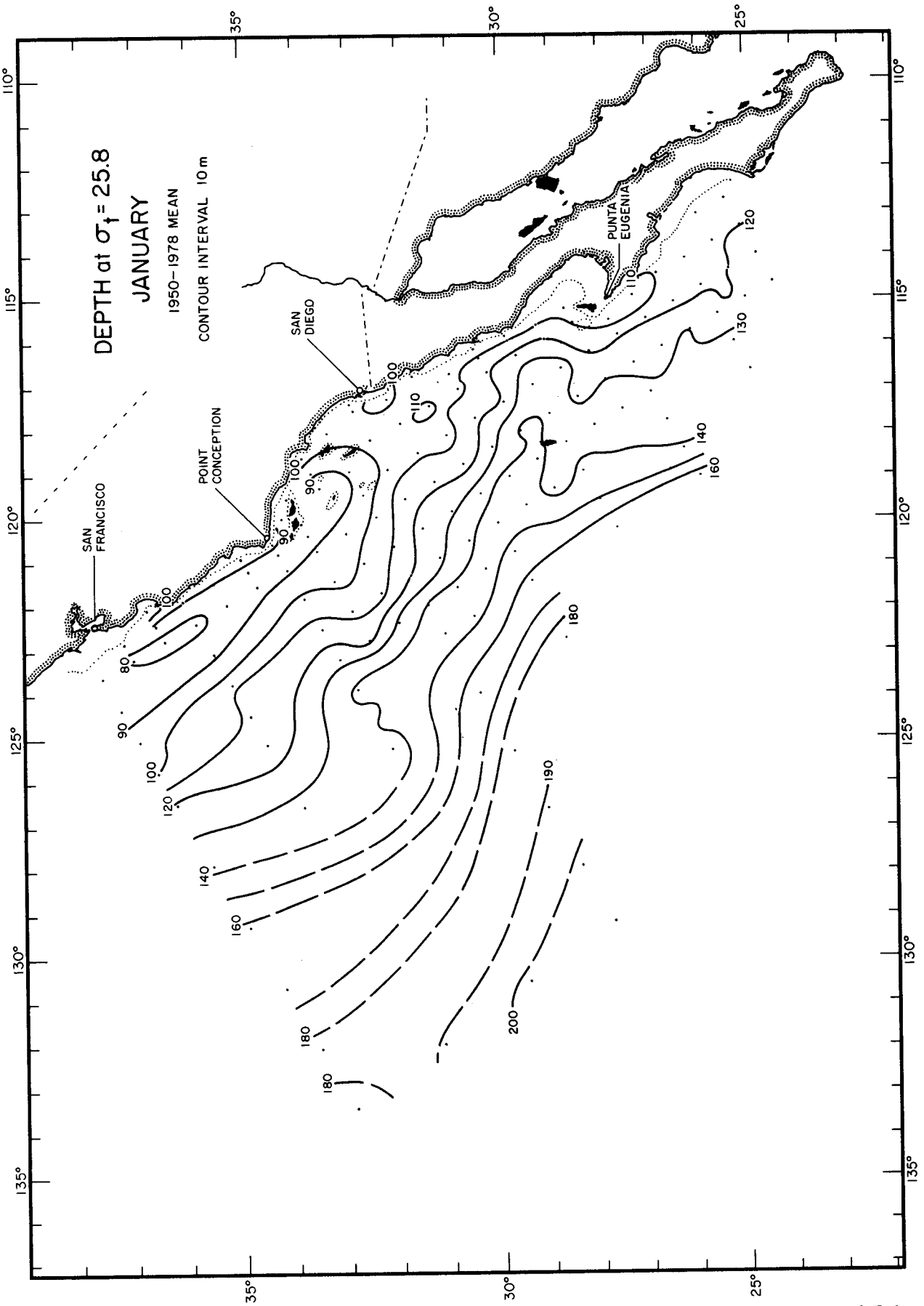
OXYGEN at σ_t = 25.0
OCTOBER



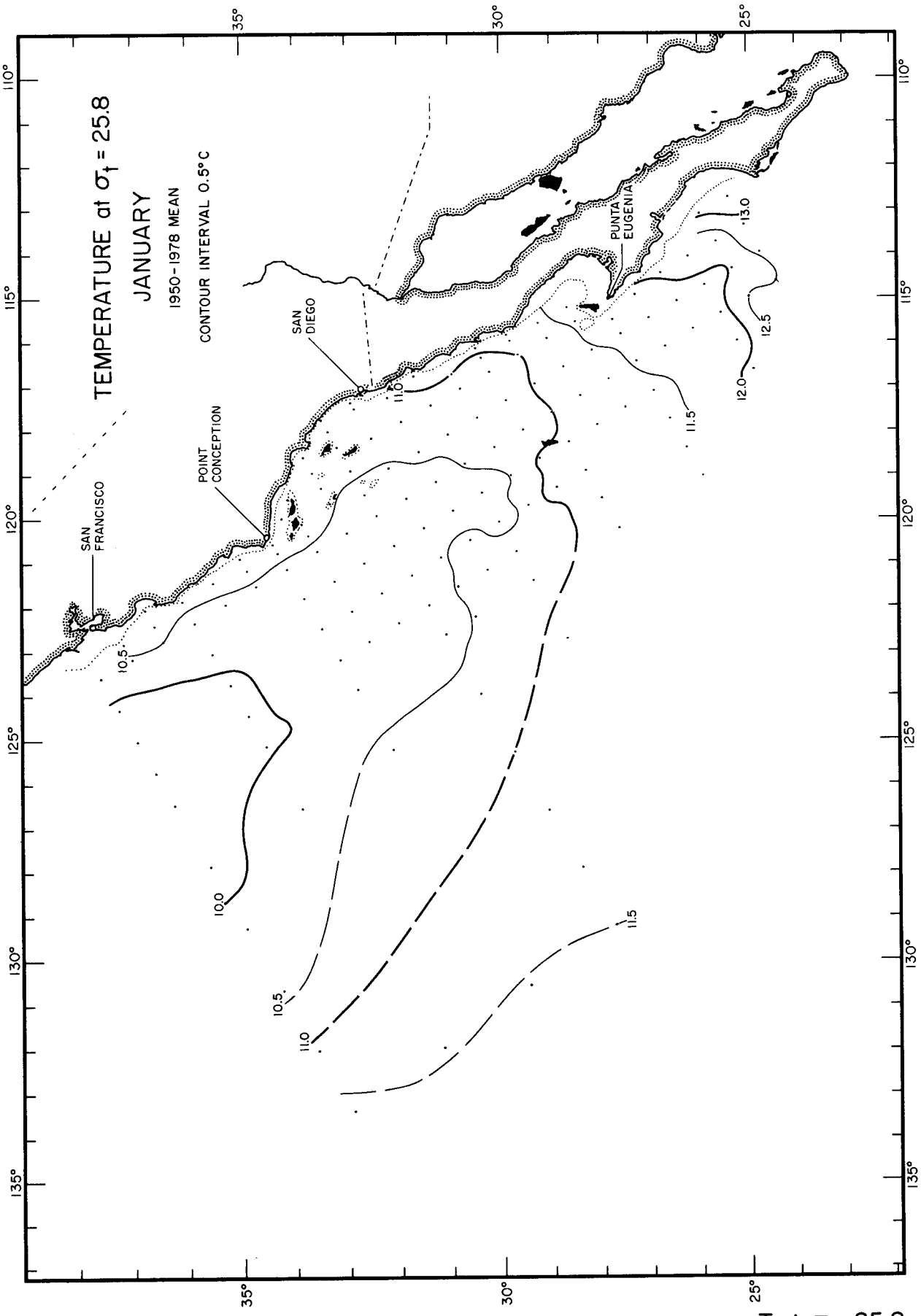
OXYGEN SATURATION at σ_t = 25.0
OCTOBER



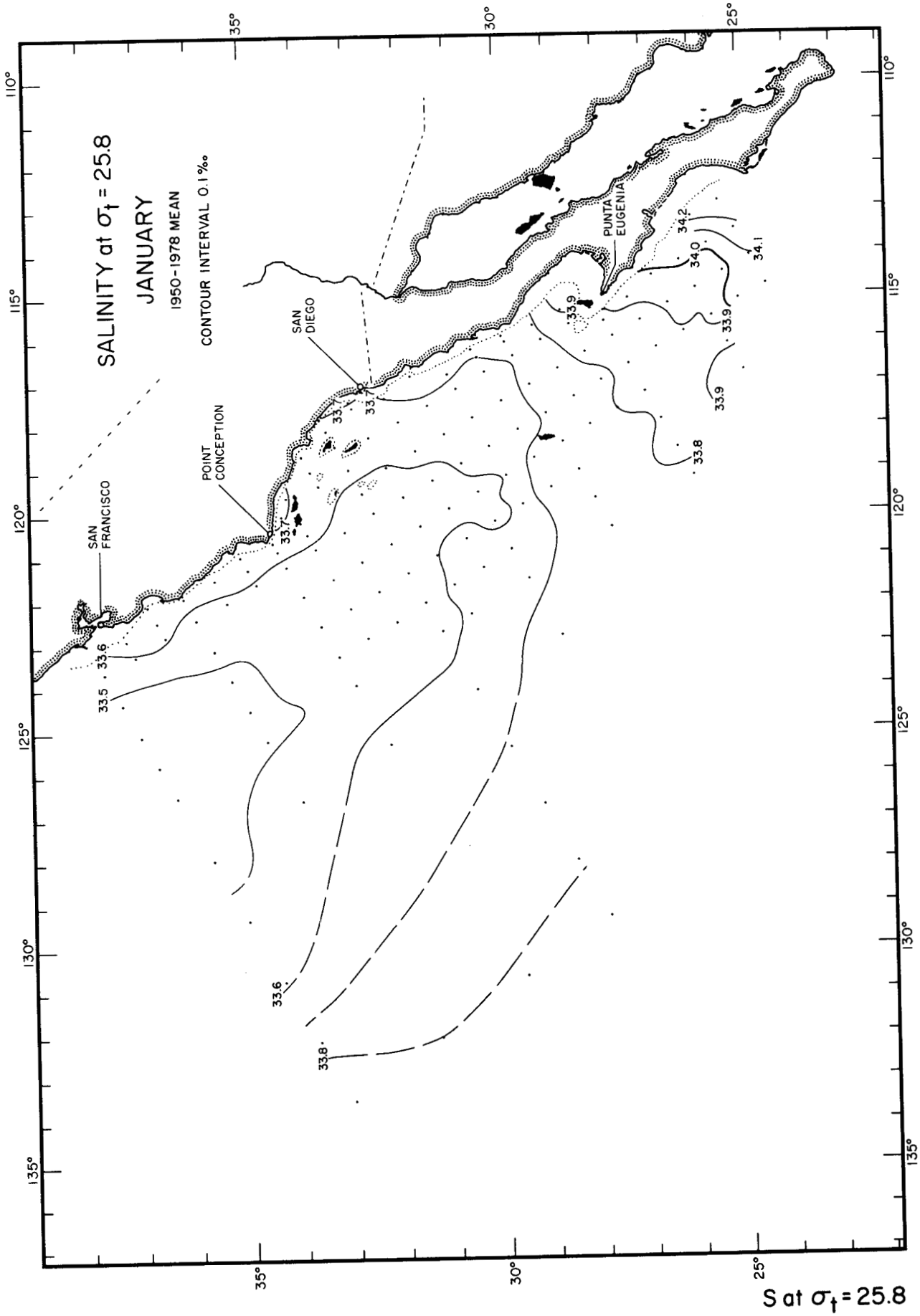
Acceleration Potential at σ_t = 25.0
OCTOBER



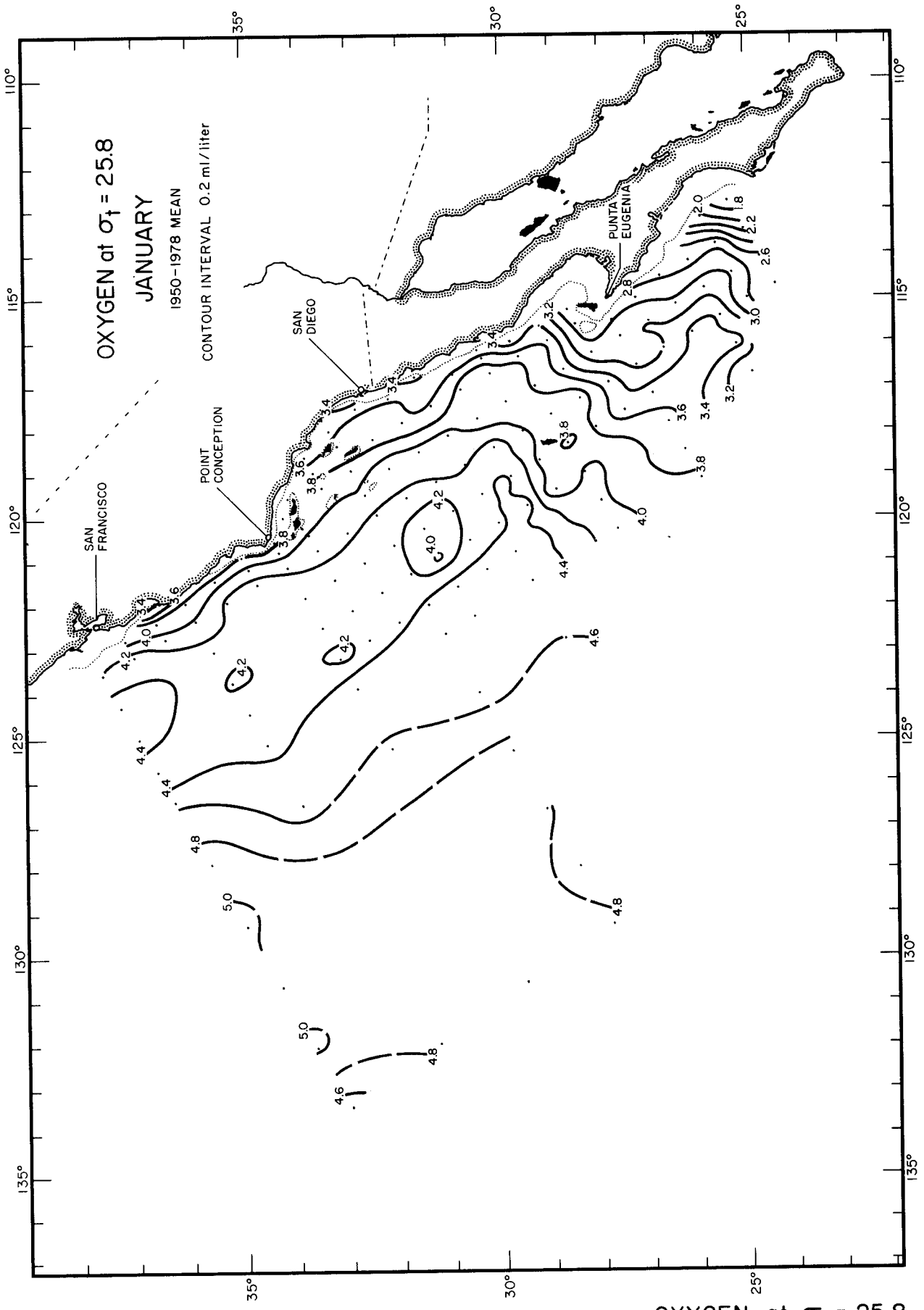
Depth at σ_t = 25.8
JANUARY



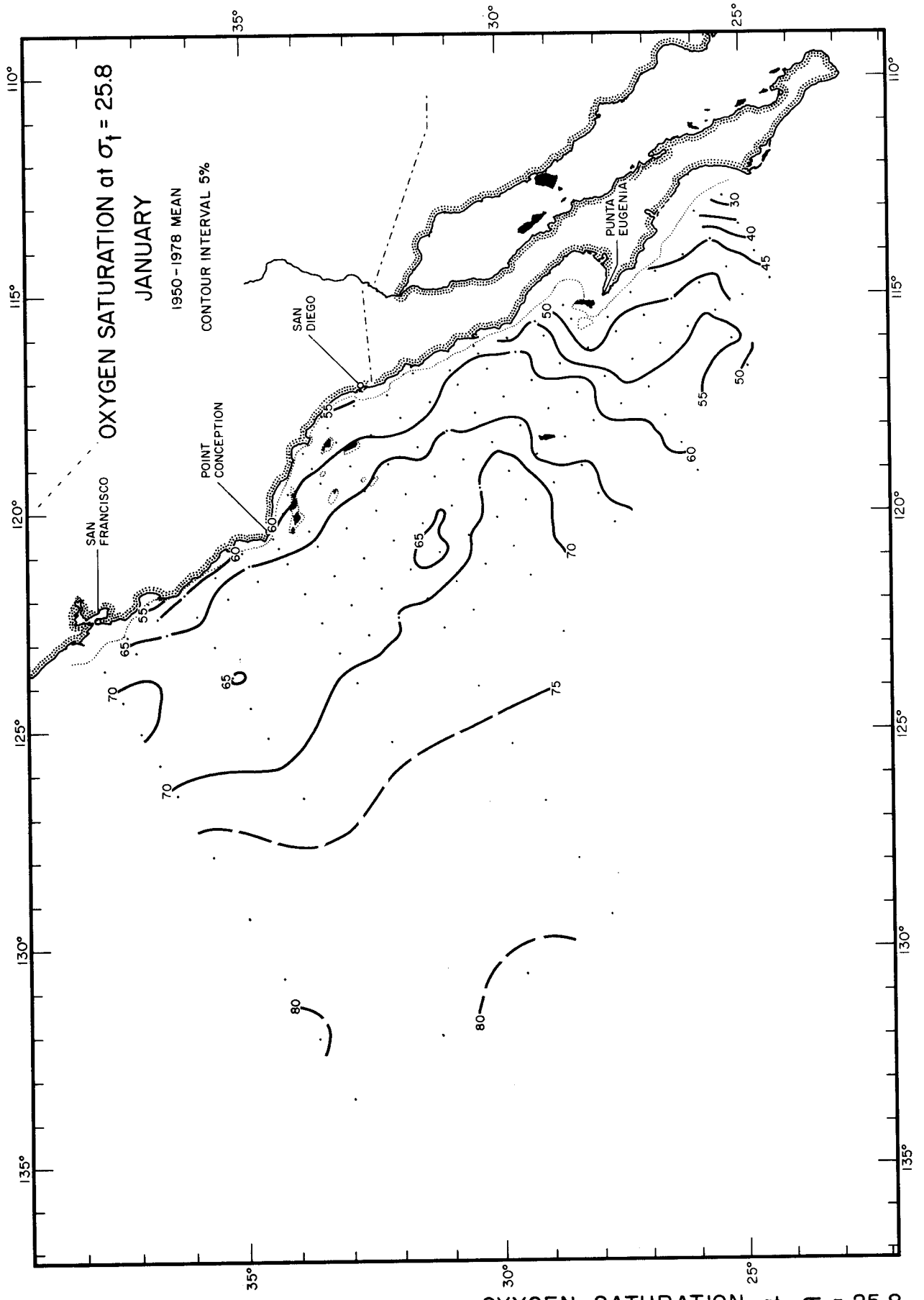
T at σ_t = 25.8
JANUARY



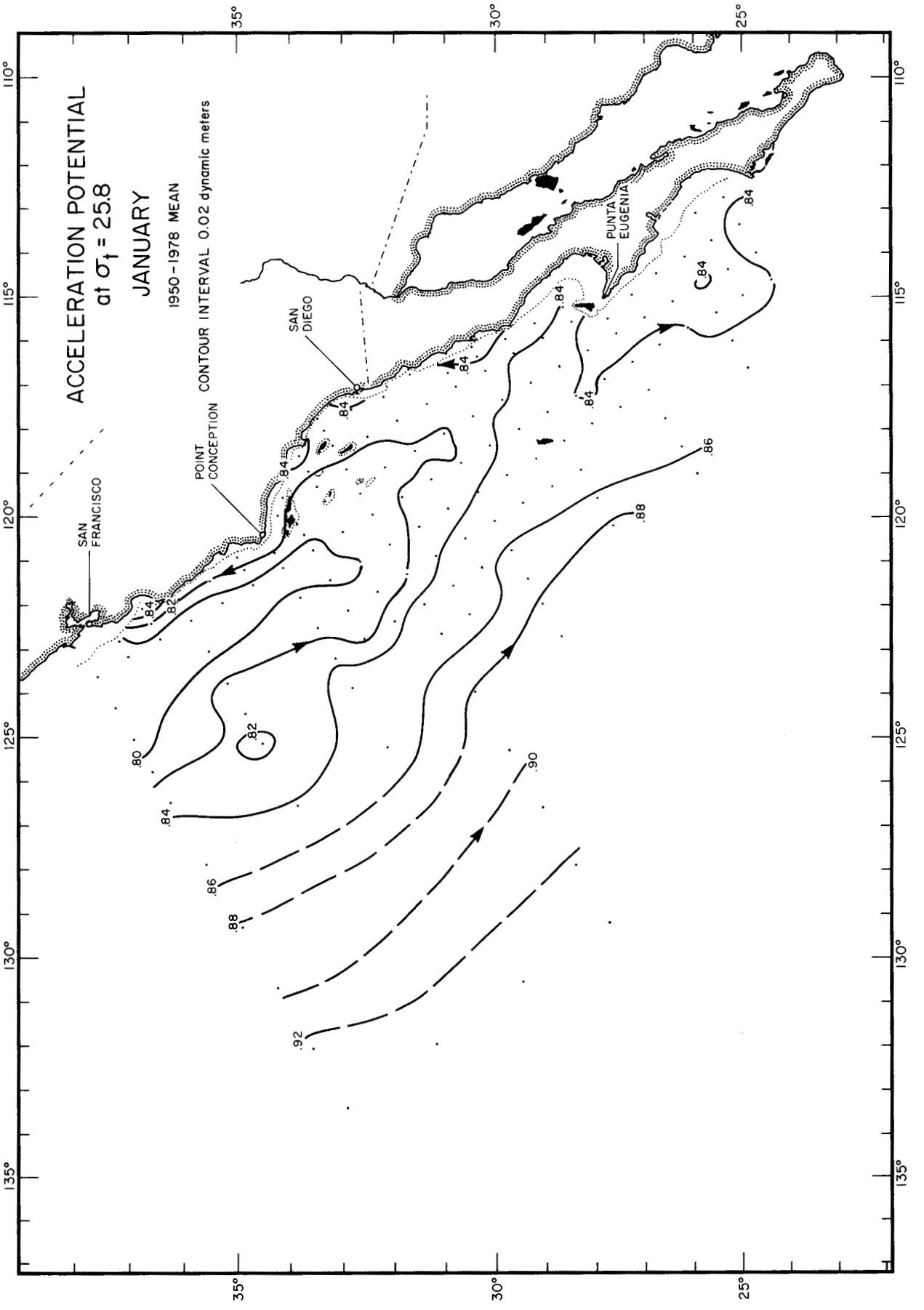
S at σ_t = 25.8
JANUARY



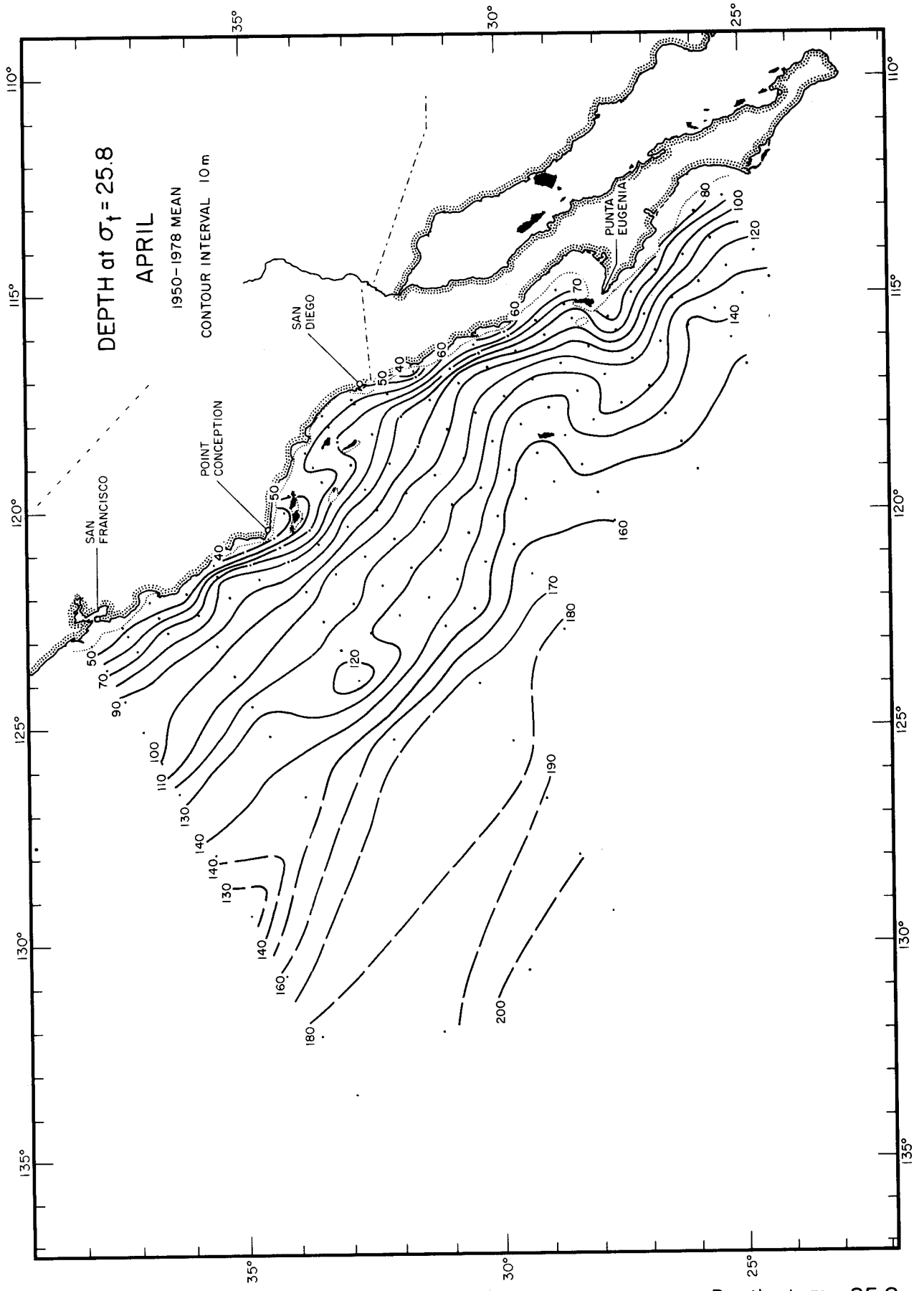
OXYGEN at σ_t = 25.8
JANUARY



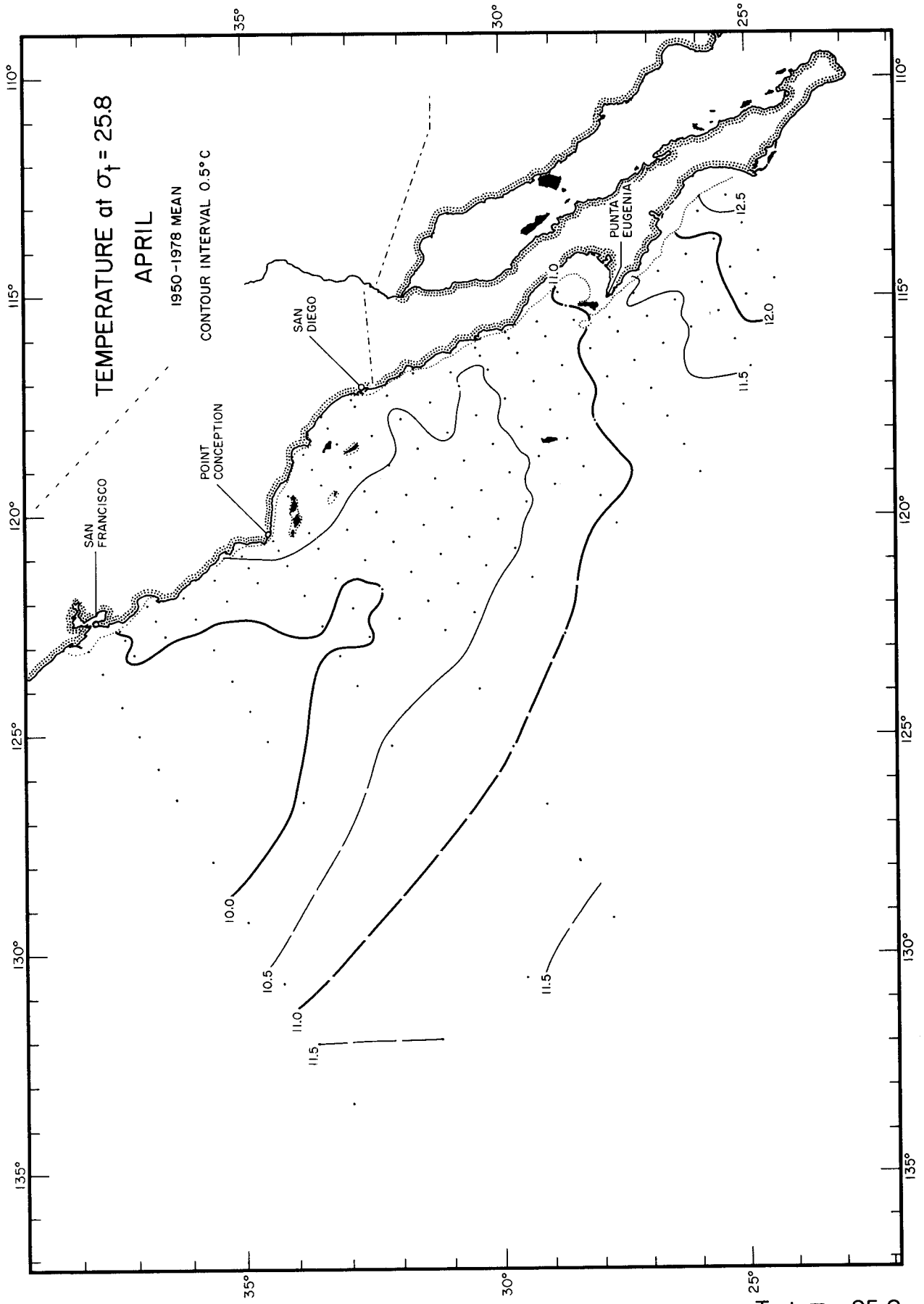
OXYGEN SATURATION at σ_t = 25.8
JANUARY



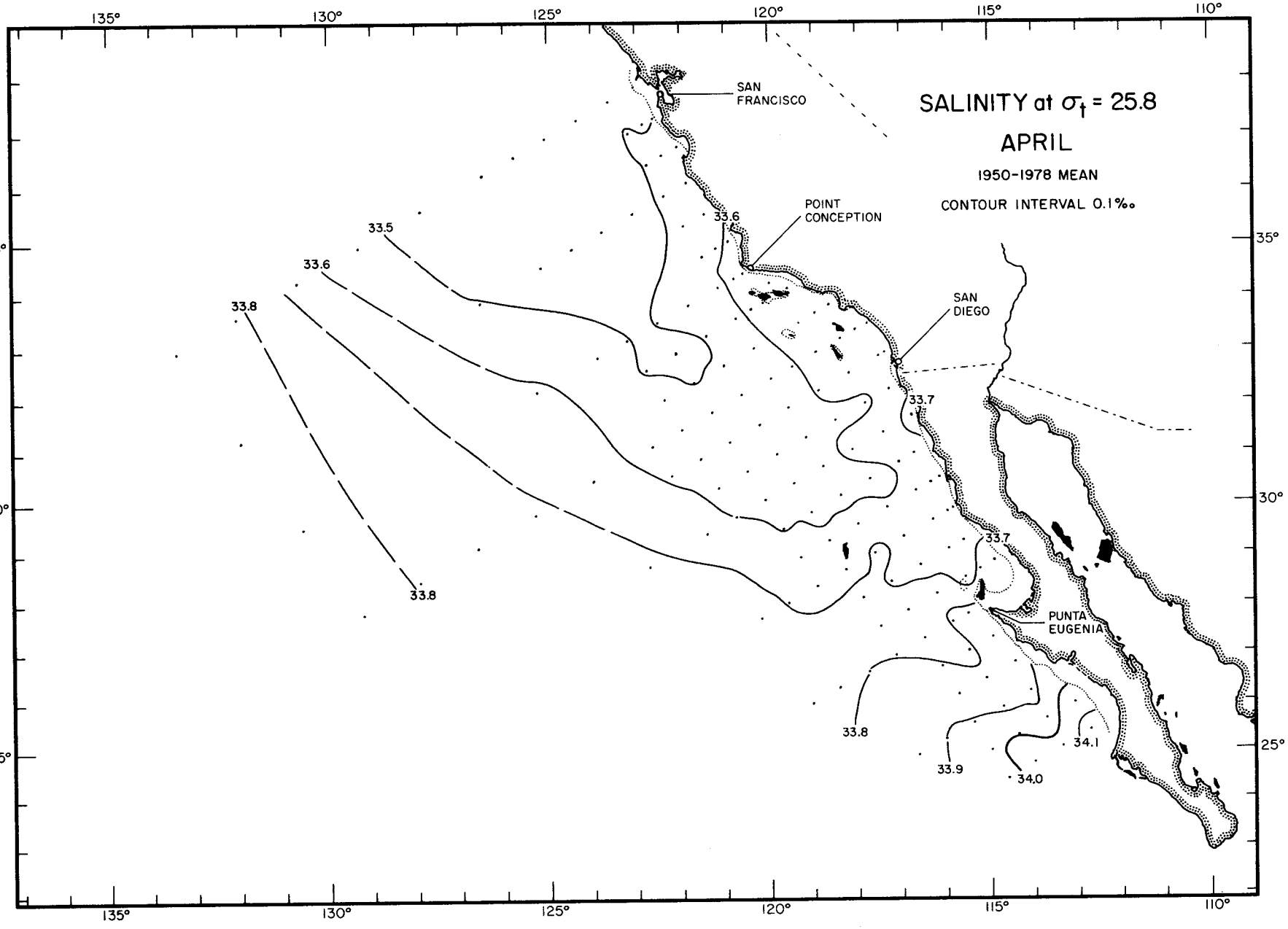
Acceleration Potential at σ_t = 25.8
JANUARY



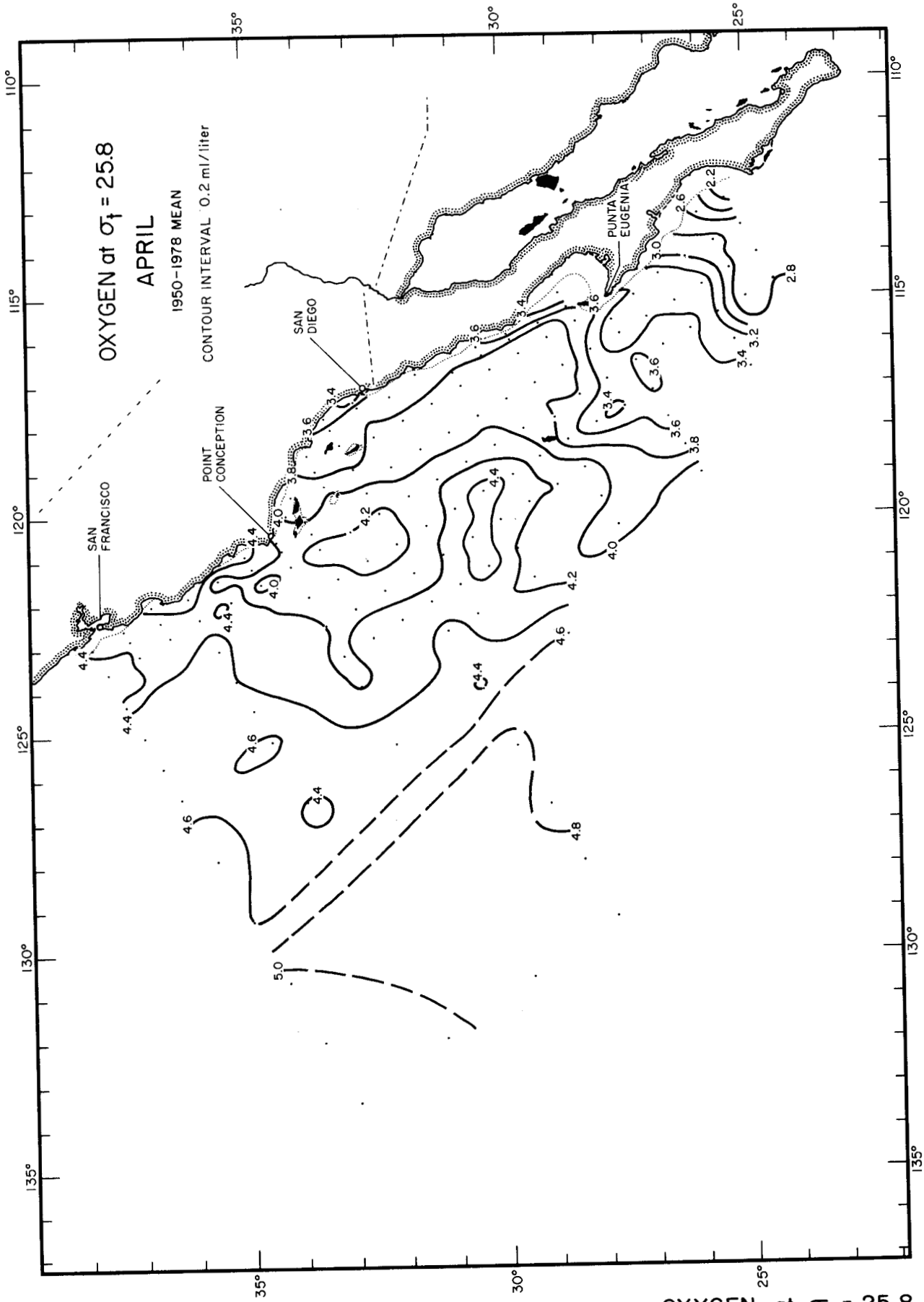
Depth at σ_t = 25.8
APRIL



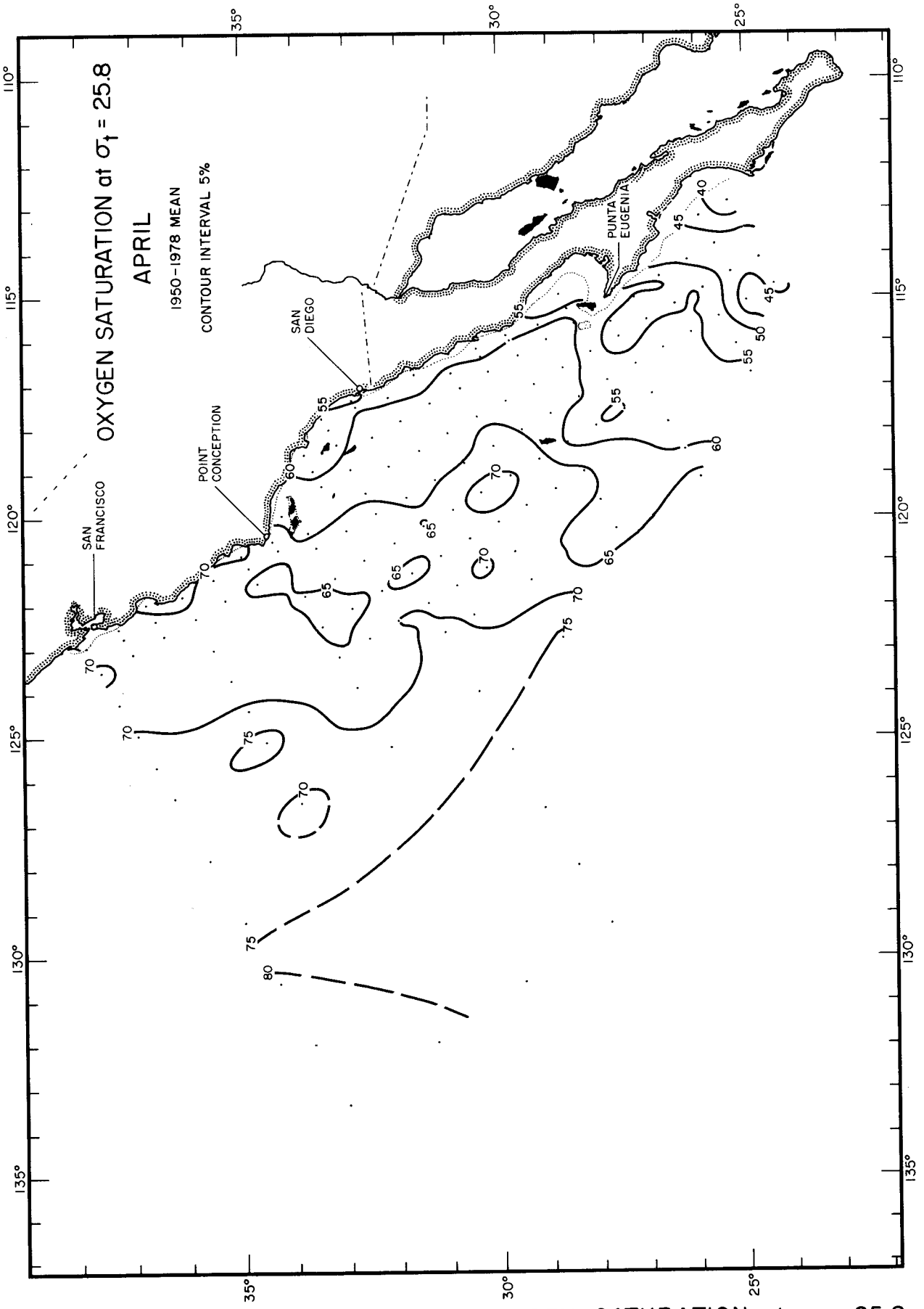
T at σ_t = 25.8
APRIL



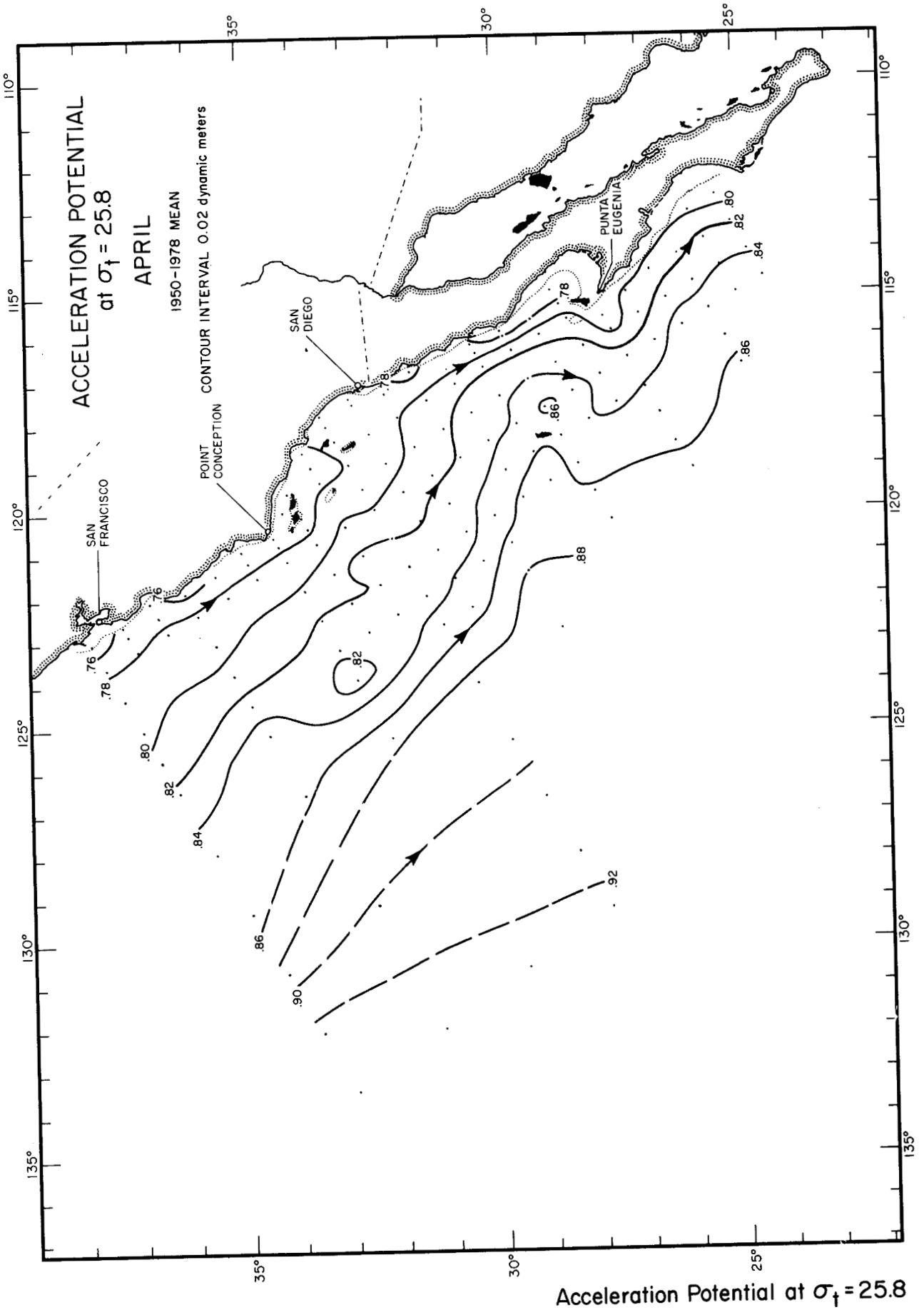
S at σ_t = 25.8
APRIL



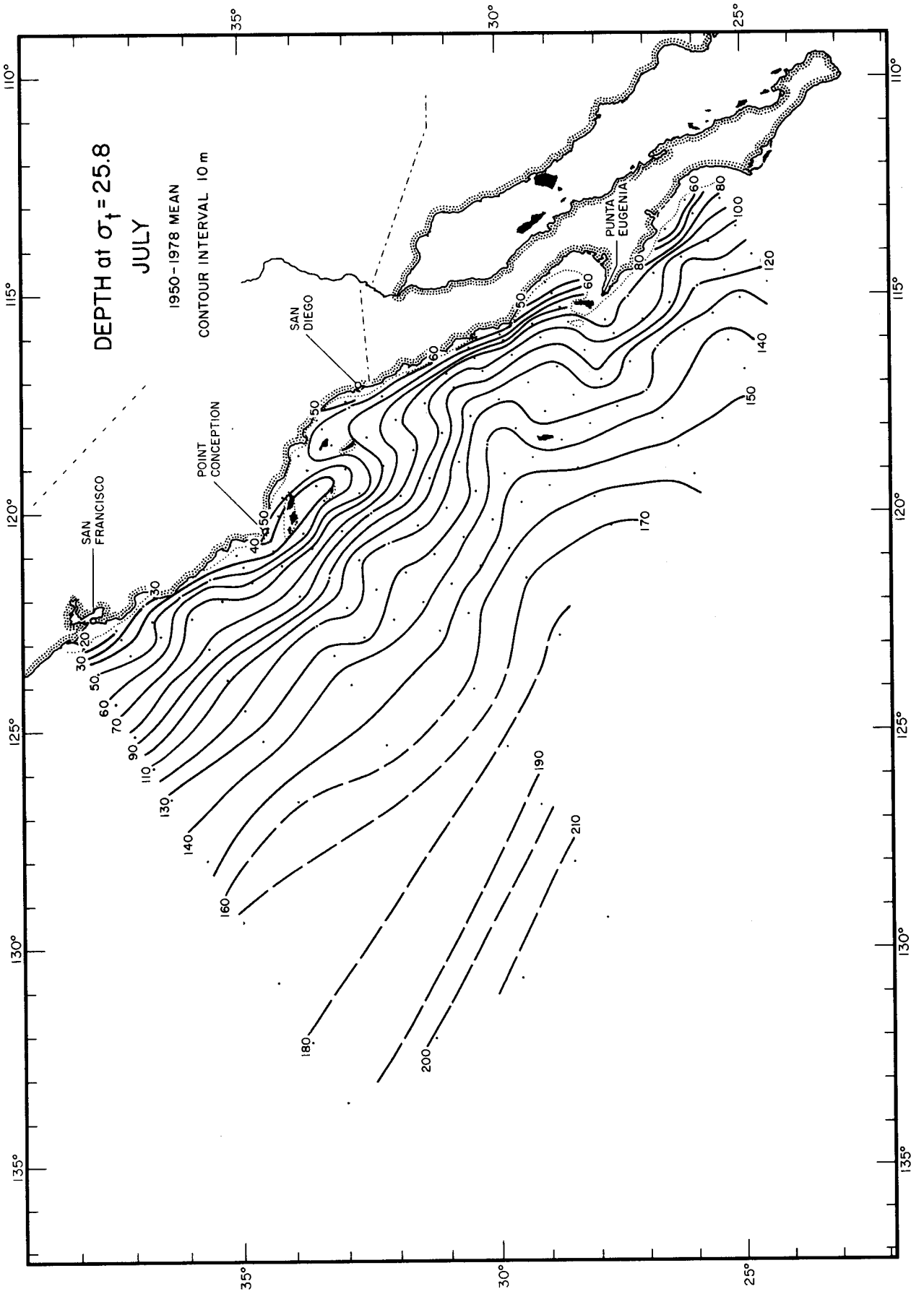
OXYGEN at σ_t = 25.8
APRIL



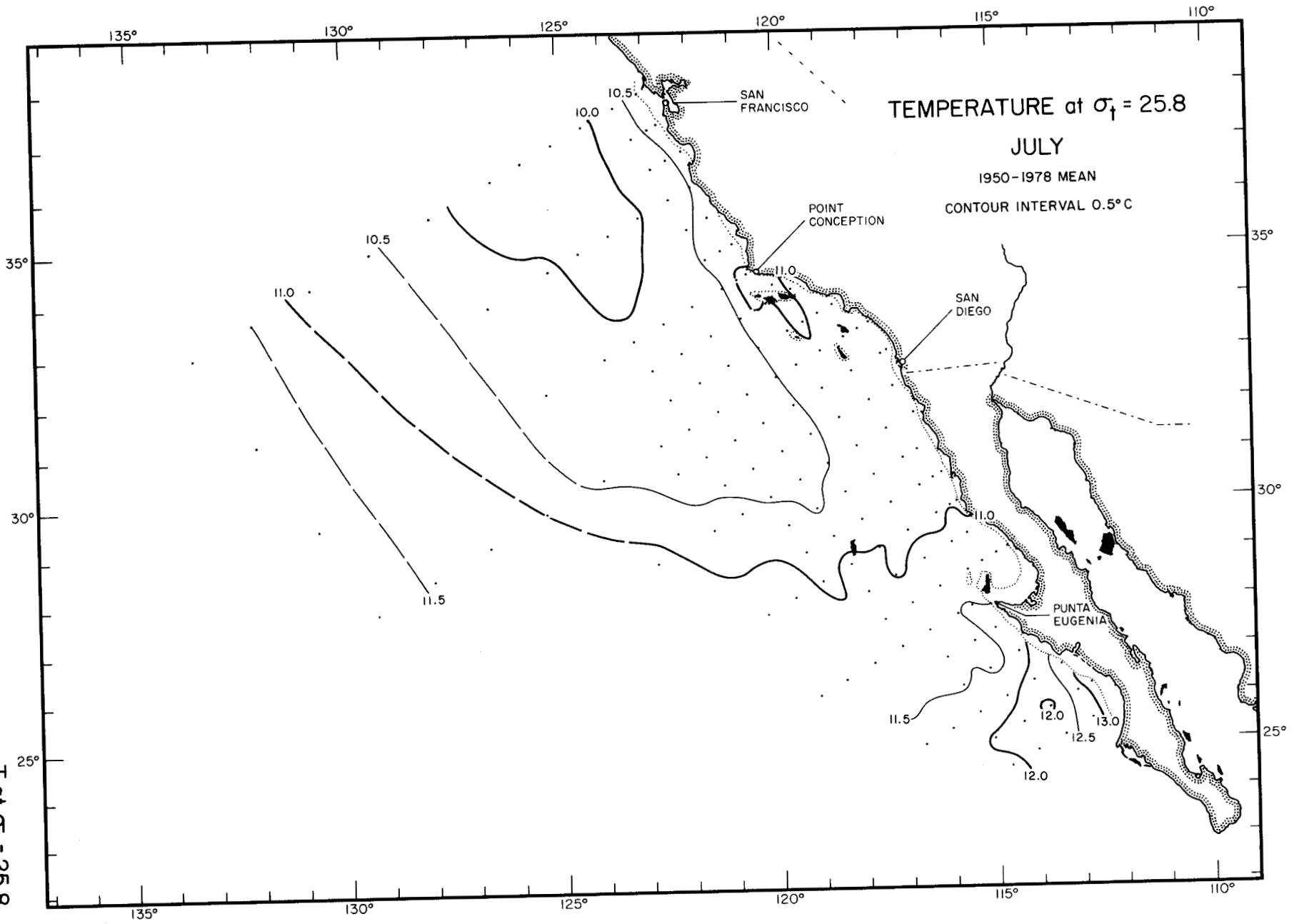
OXYGEN SATURATION at σ_t = 25.8
APRIL



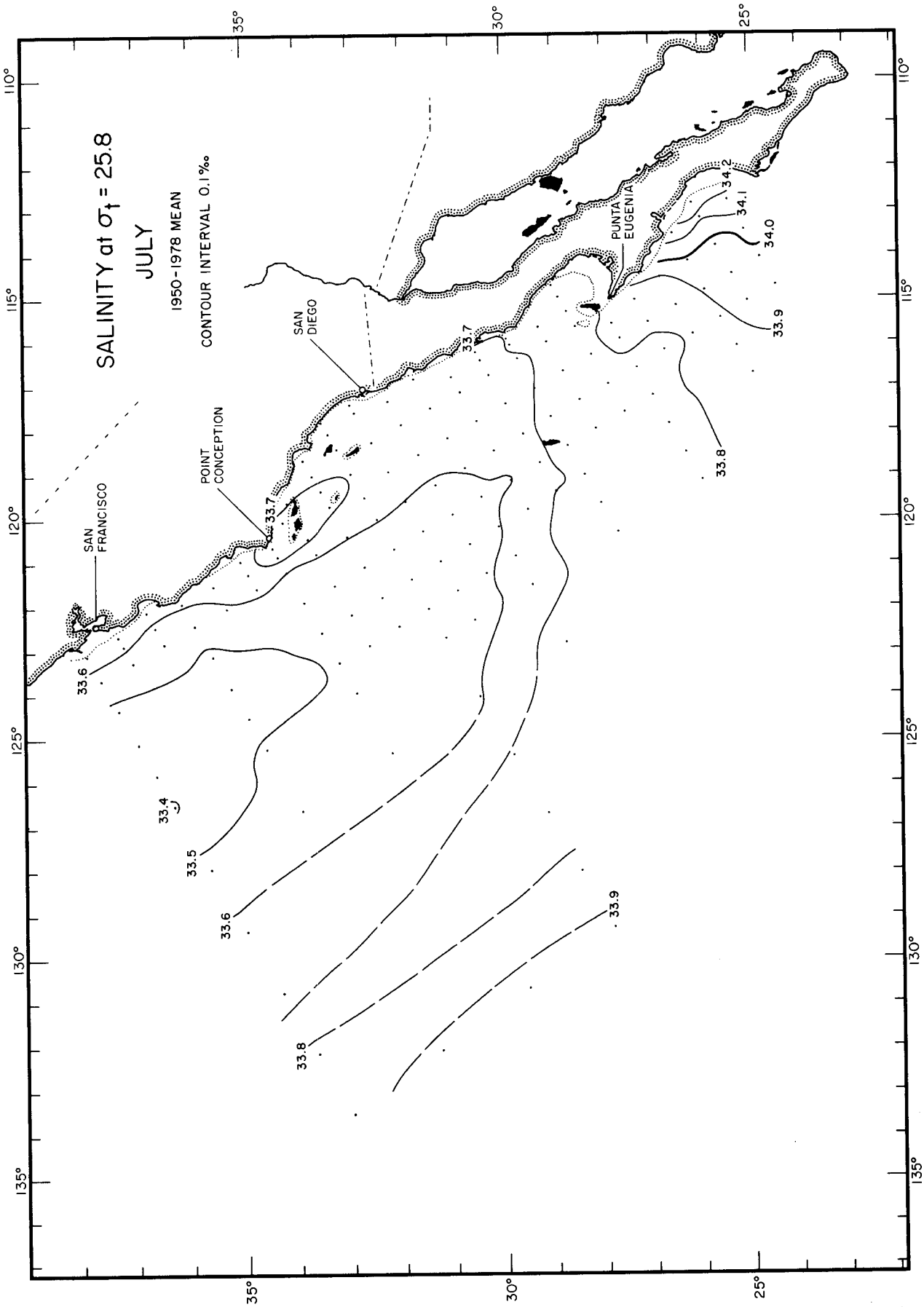
Acceleration Potential at σ_t = 25.8
APRIL



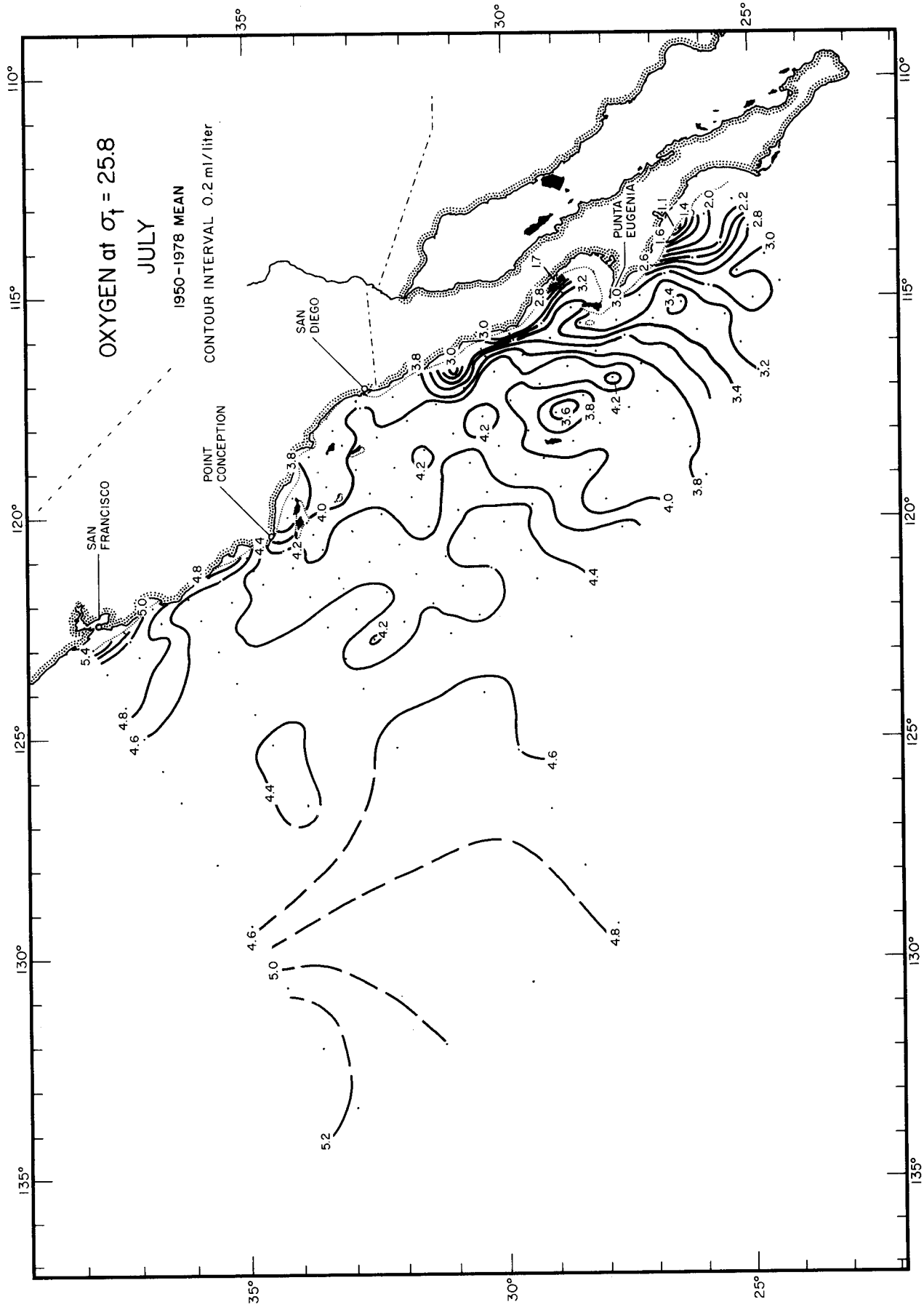
Depth at σ_t = 25.8
JULY



T at σ_t = 25.8
JULY



S at σ_t = 25.8
JULY



OXYGEN at σ_t = 25.8
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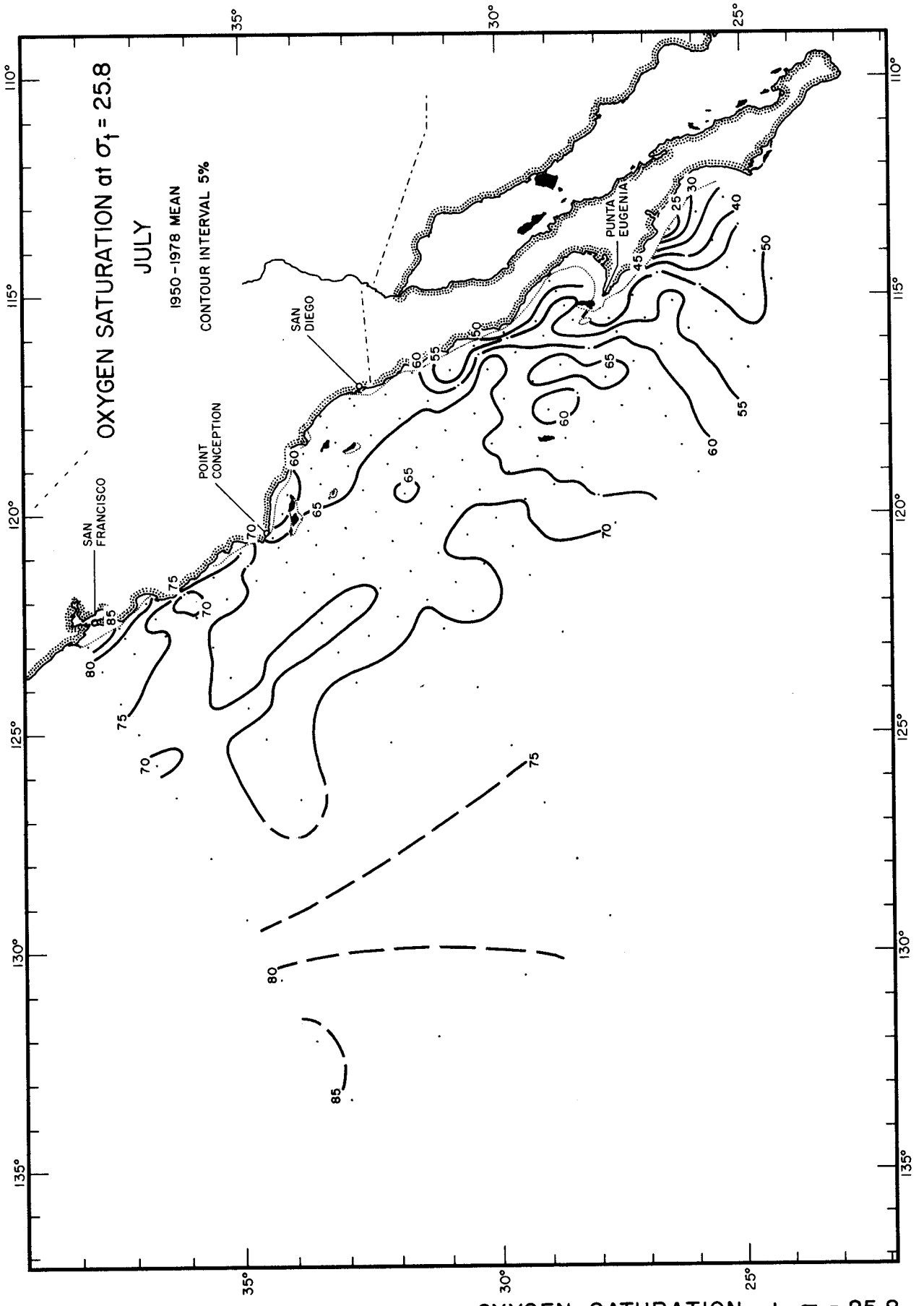
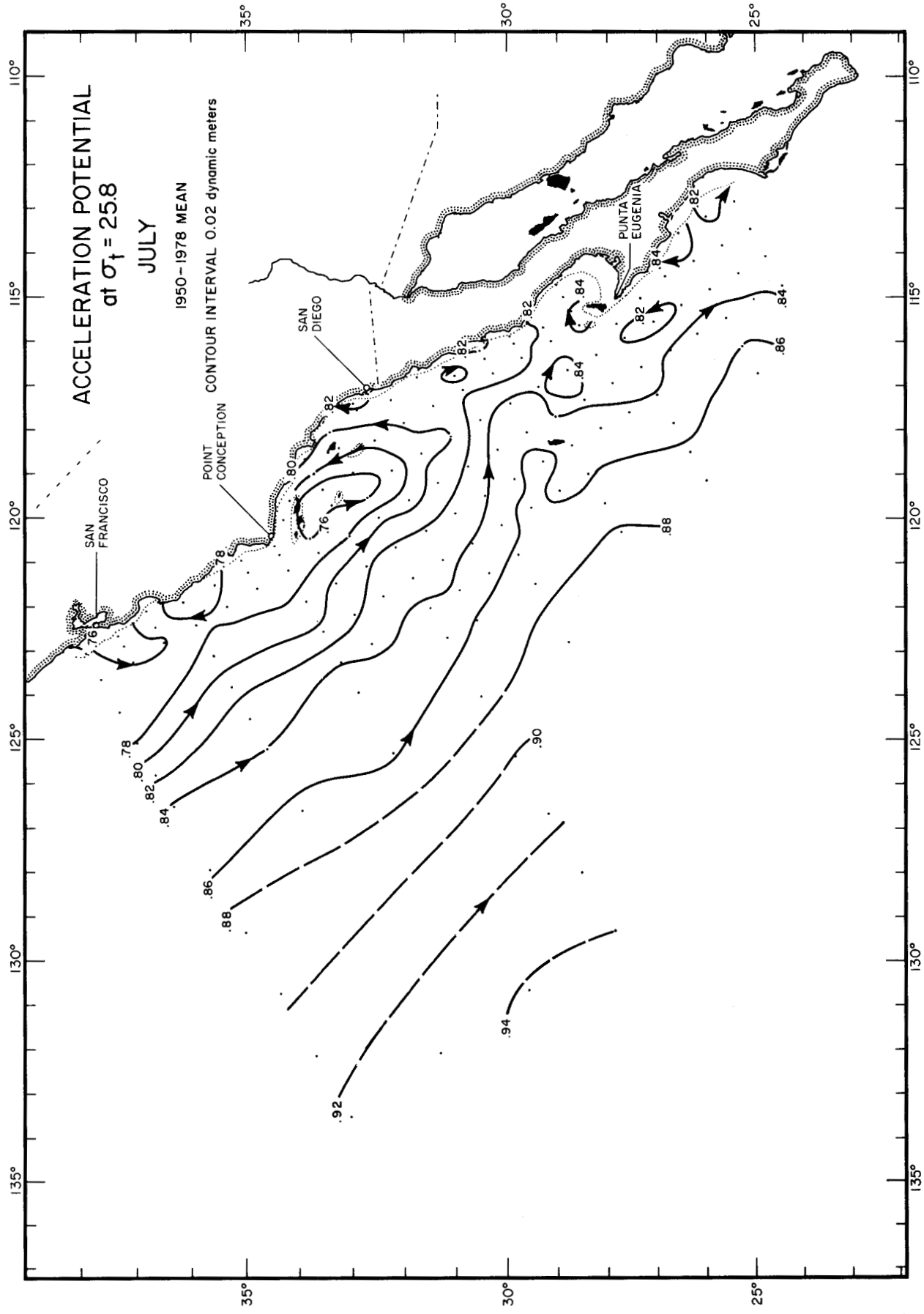


OXYGEN SATURATION at σ_t = 25.8

JULY



Acceleration Potential at σ_t = 25.8
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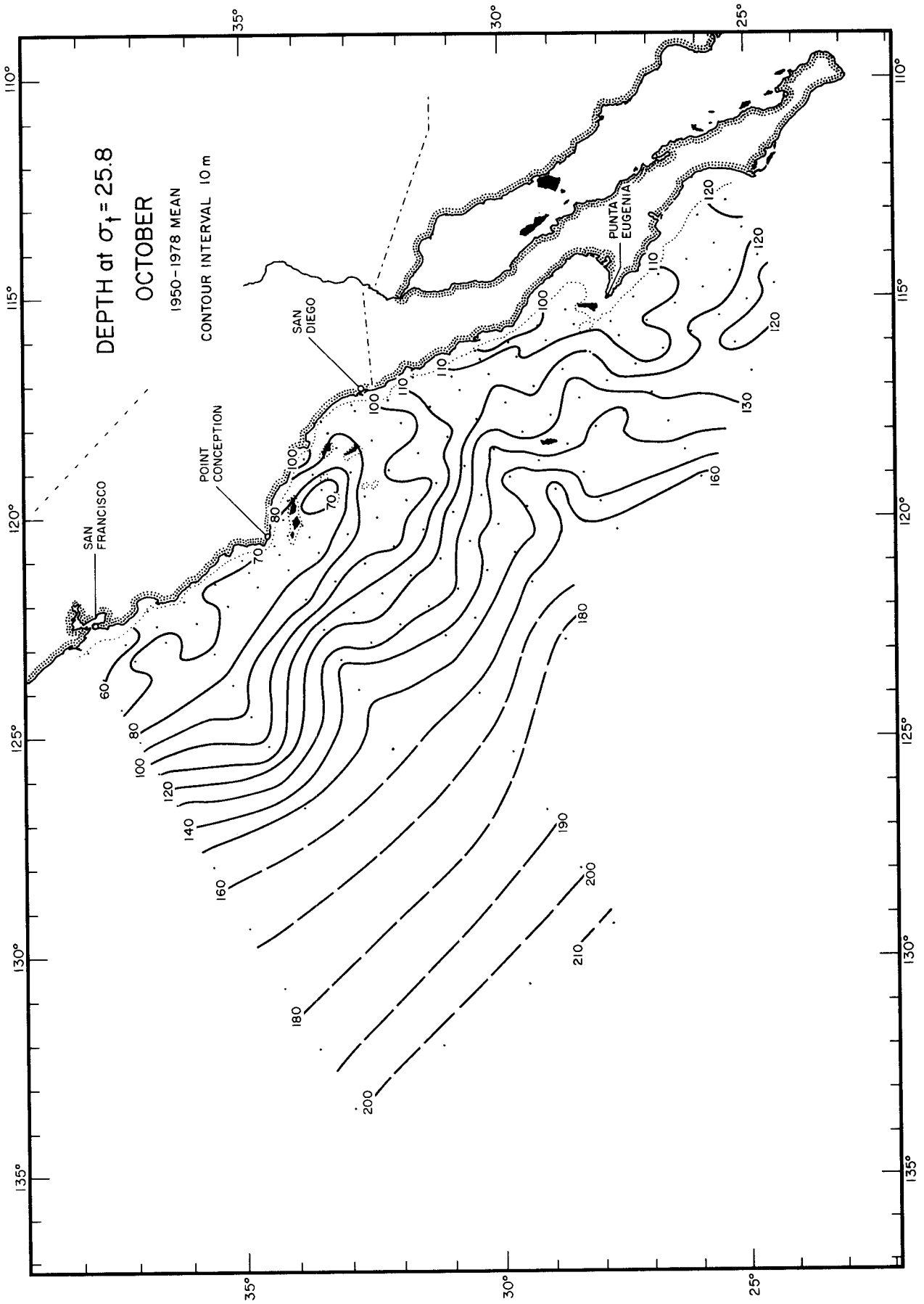
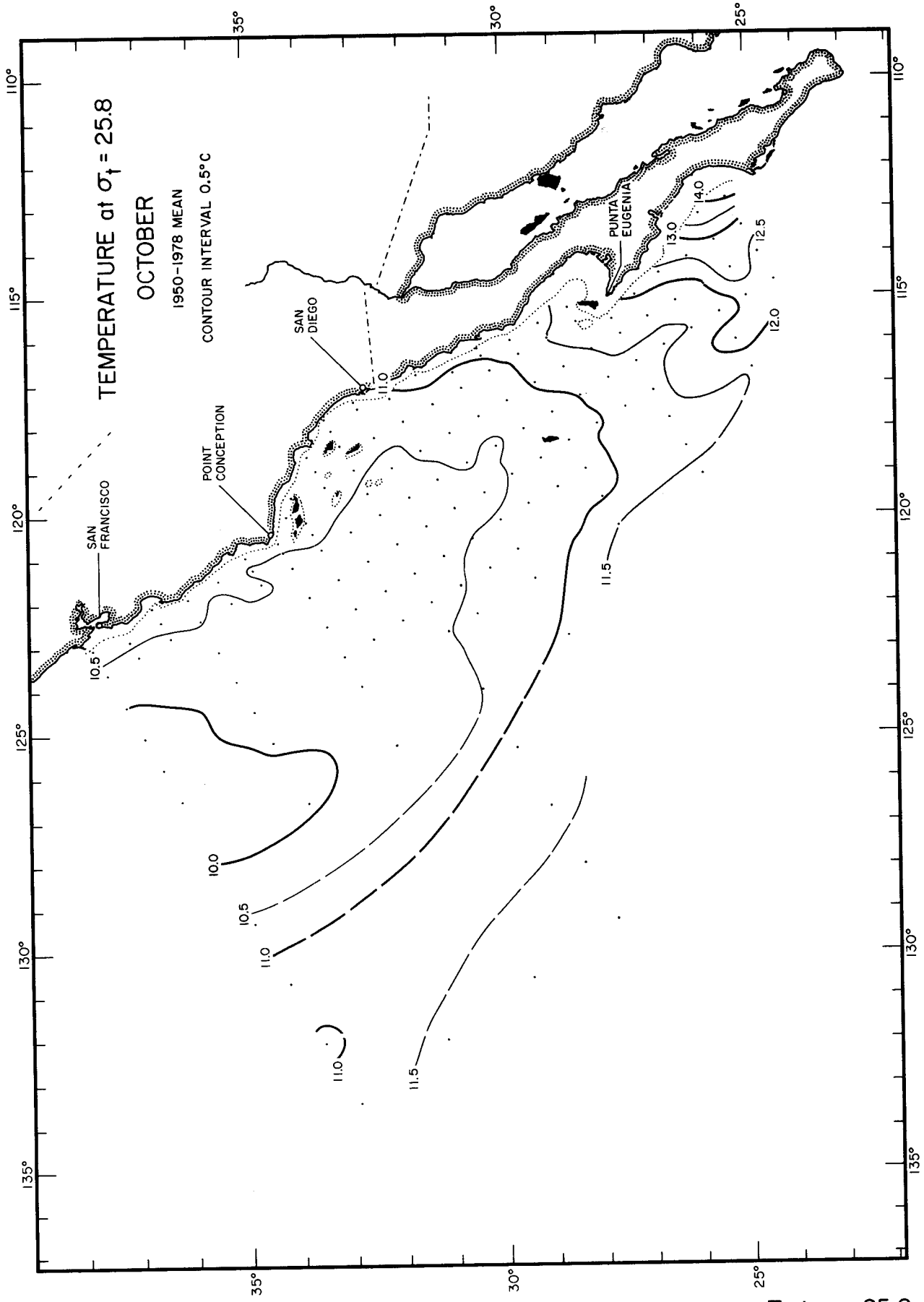


Depth at σ_t = 25.8
OCTOBER



T at σ_t = 25.8
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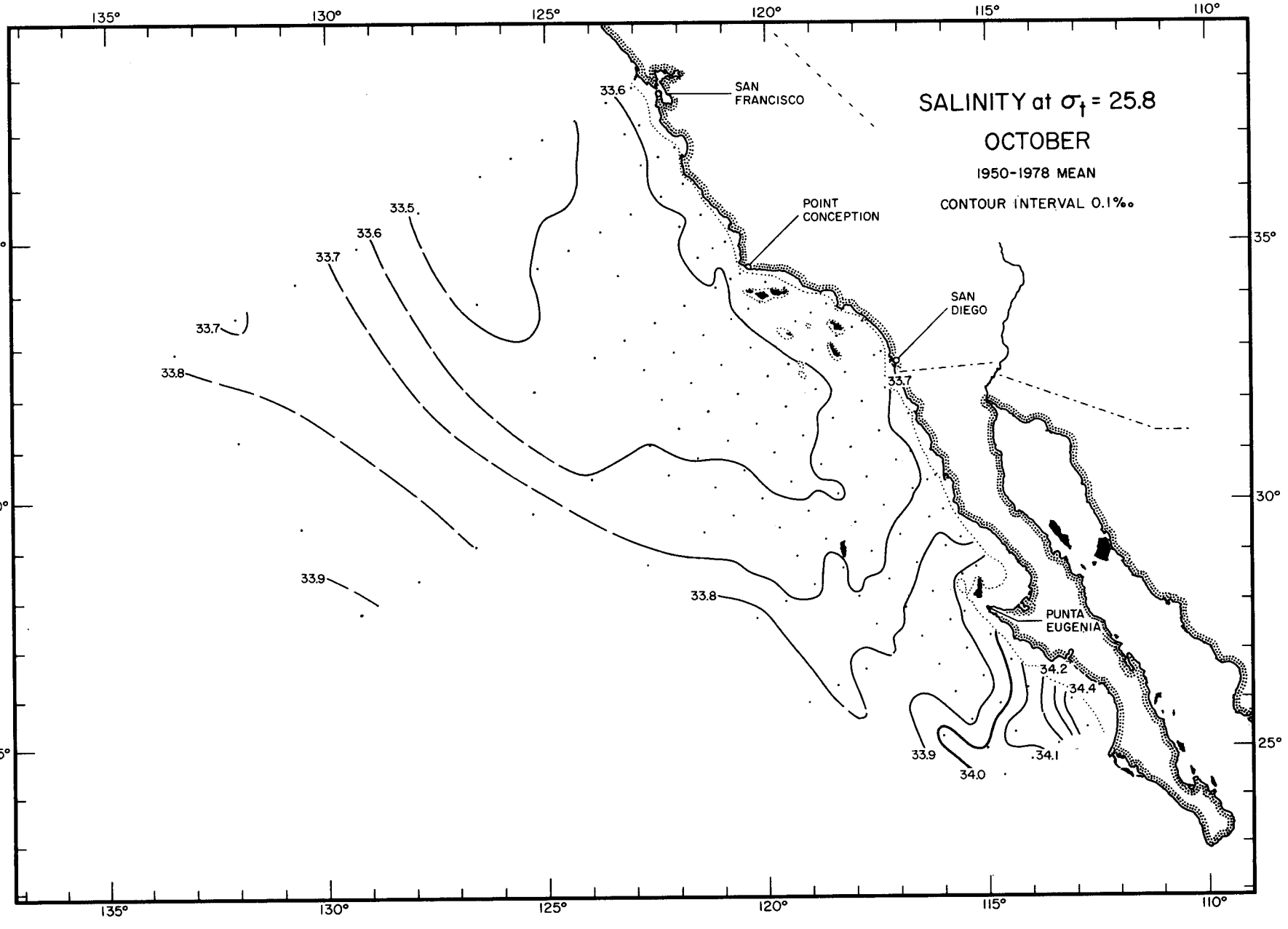

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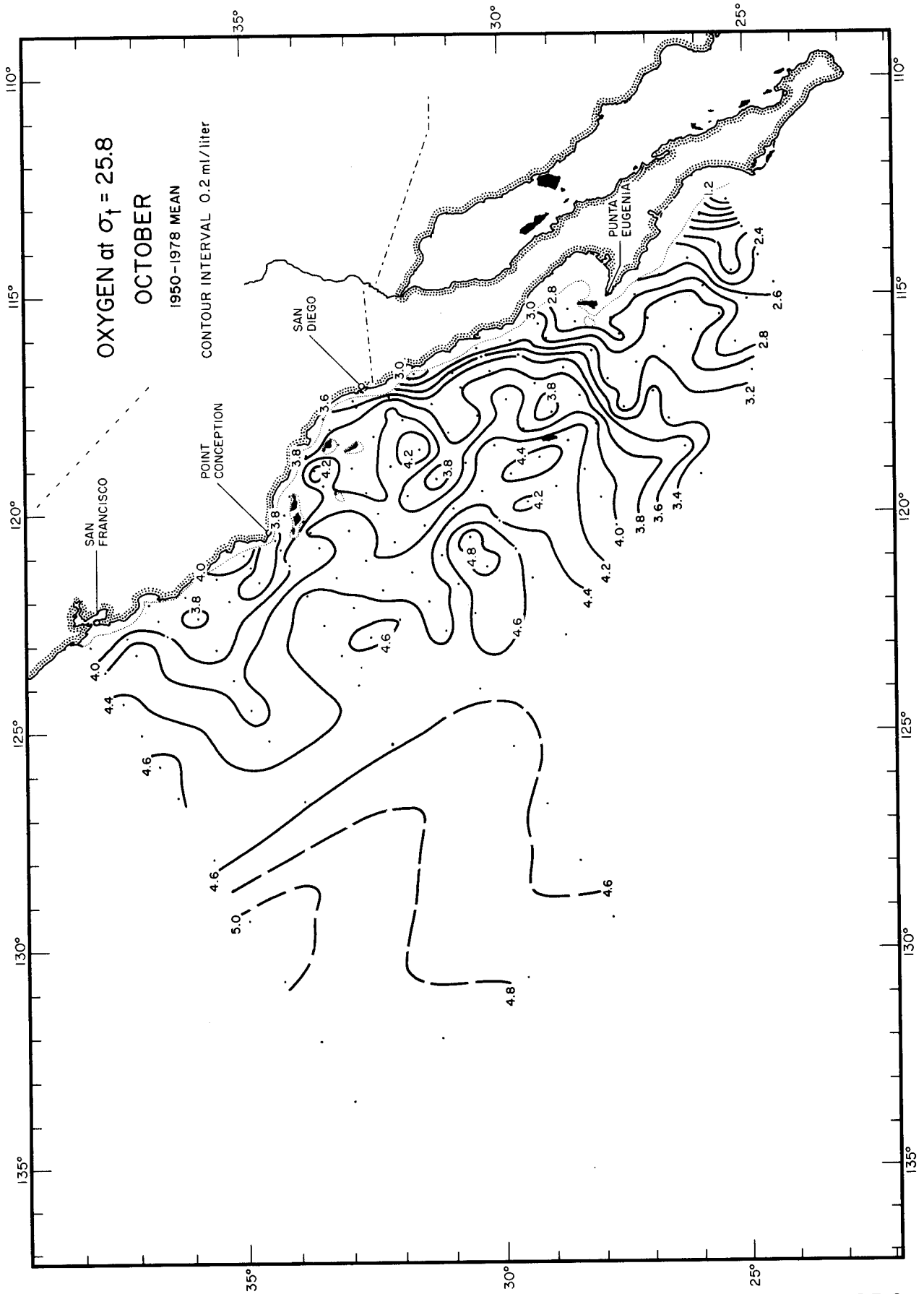

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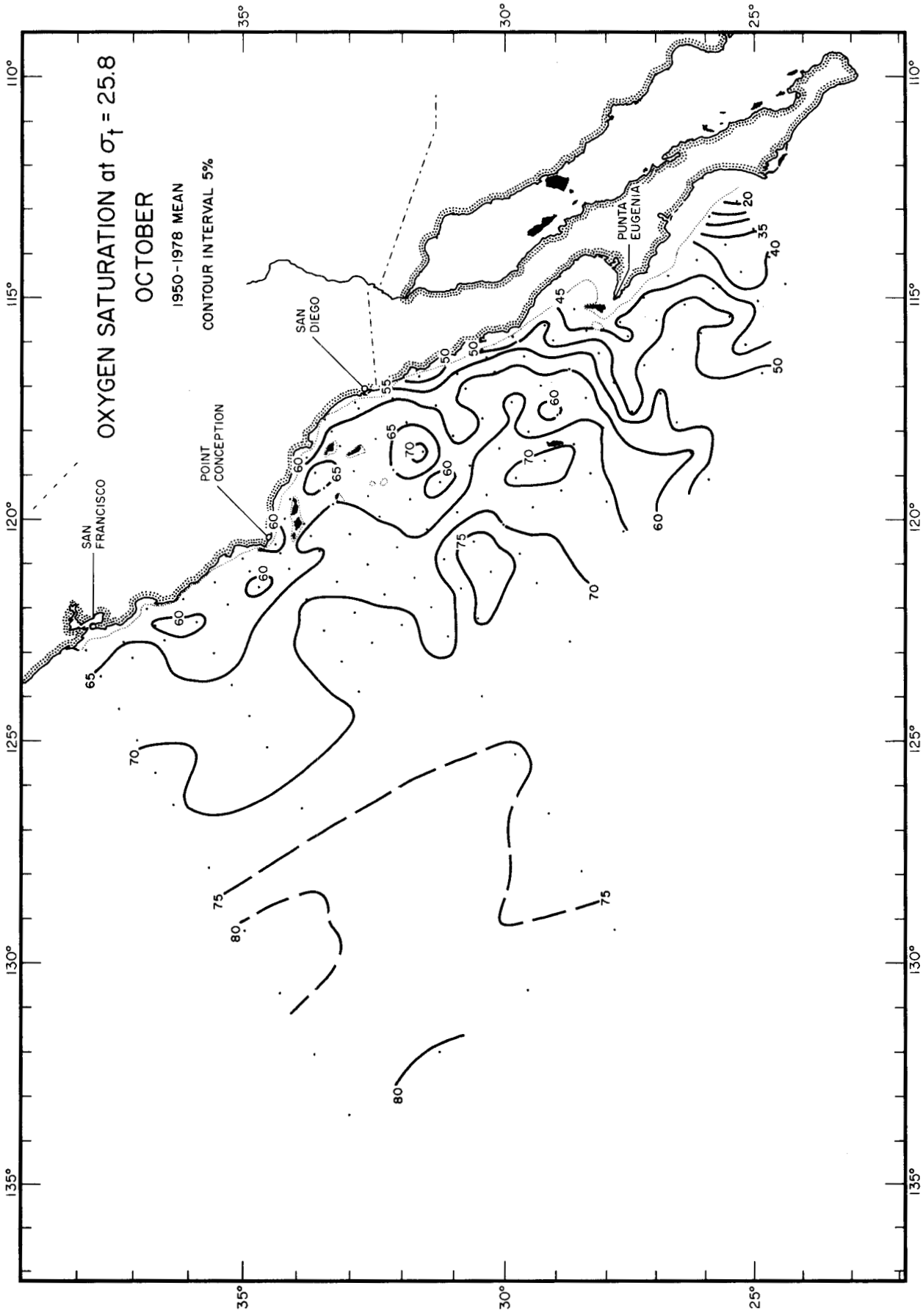

OXYGEN SATURATION at σ_t = 25.8
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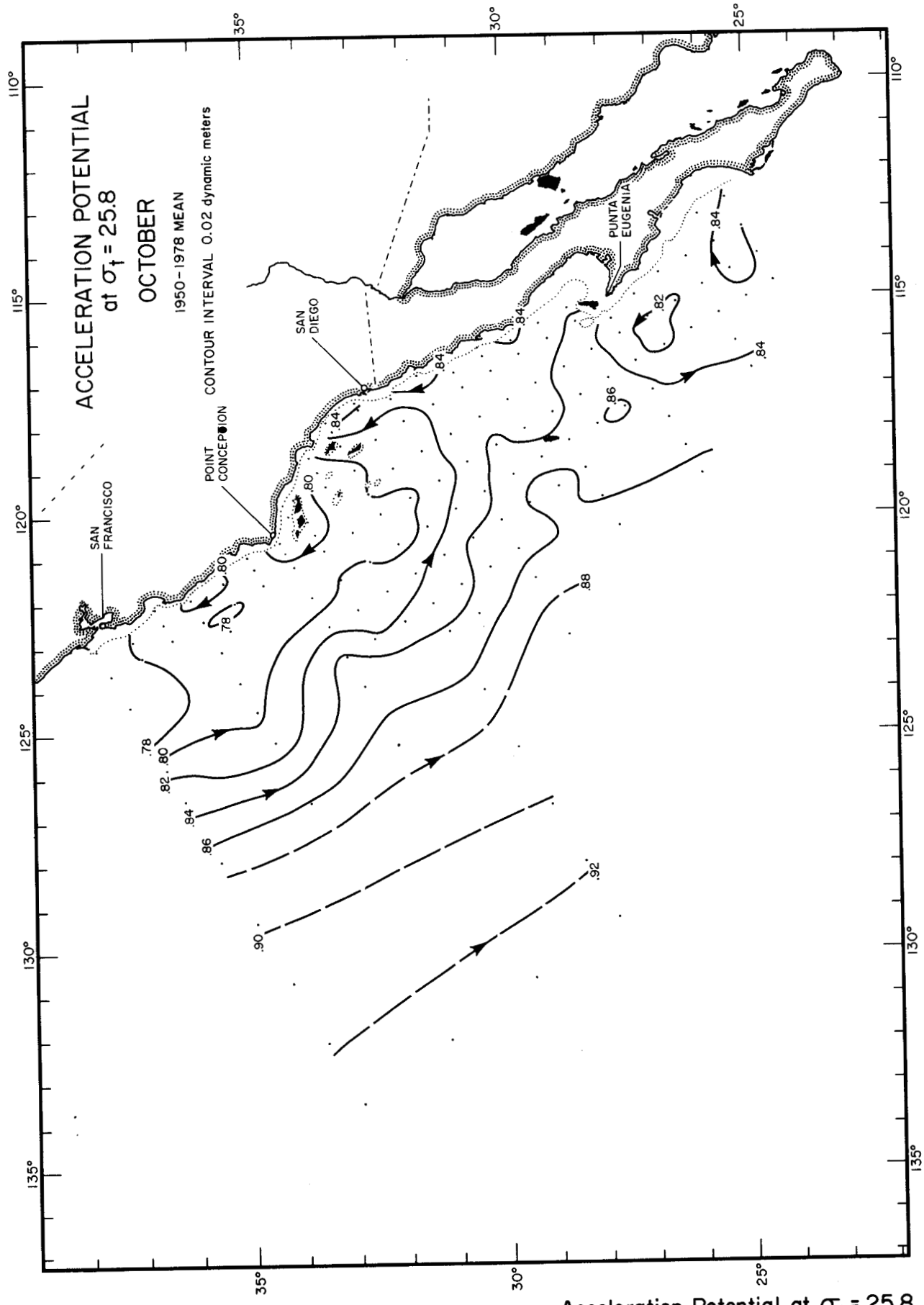

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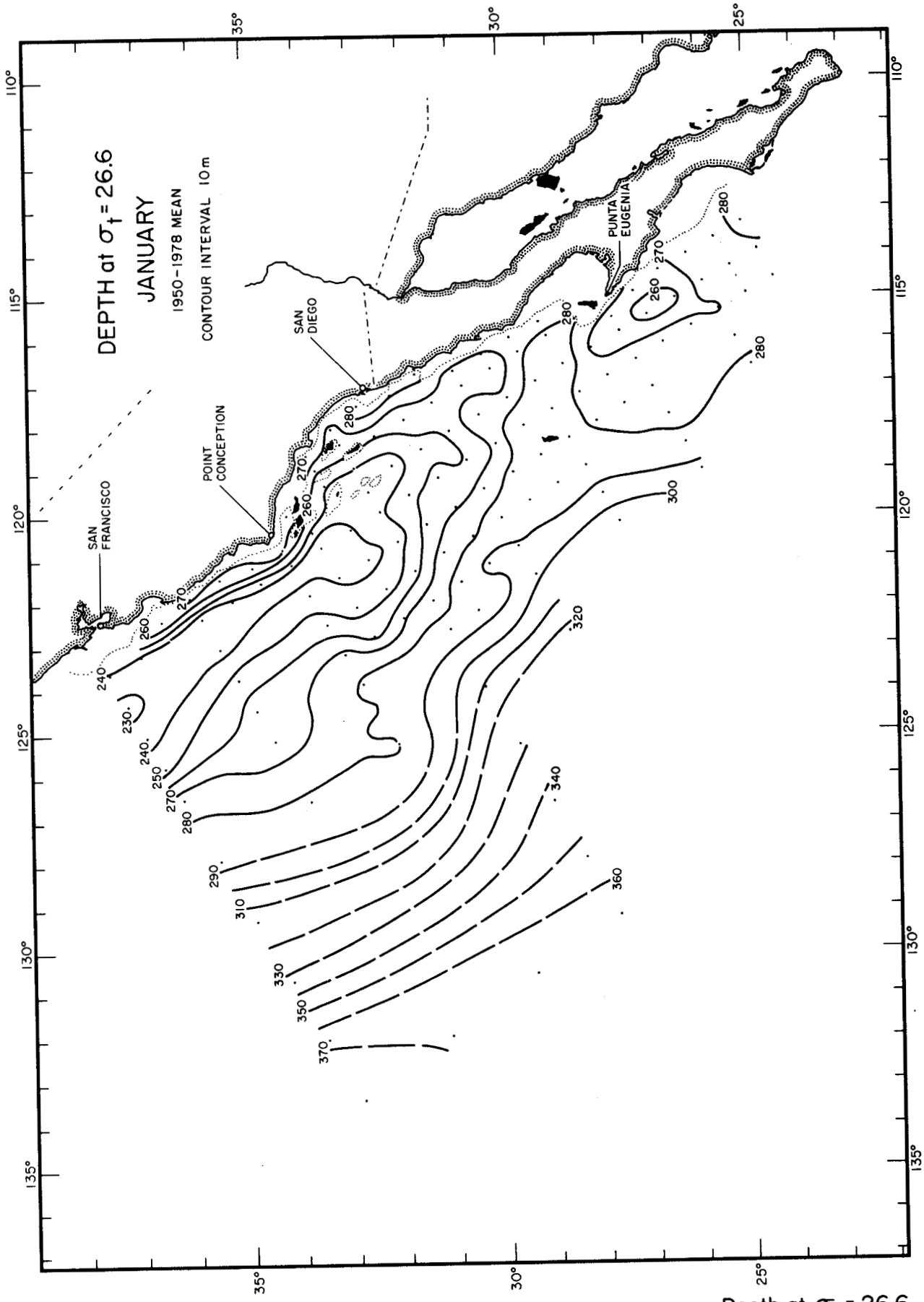
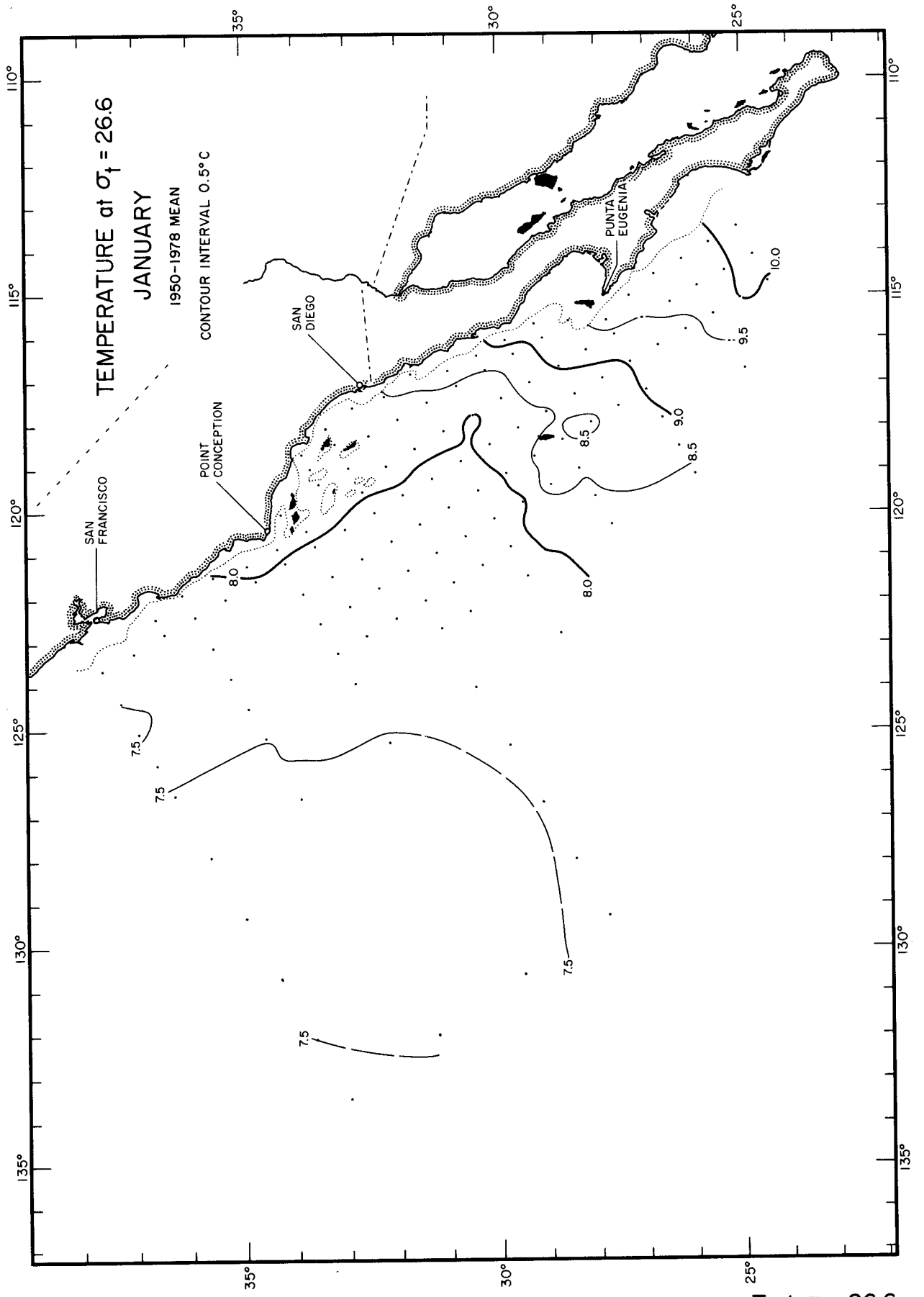


Depth at σ_t = 26.6
JANUARY



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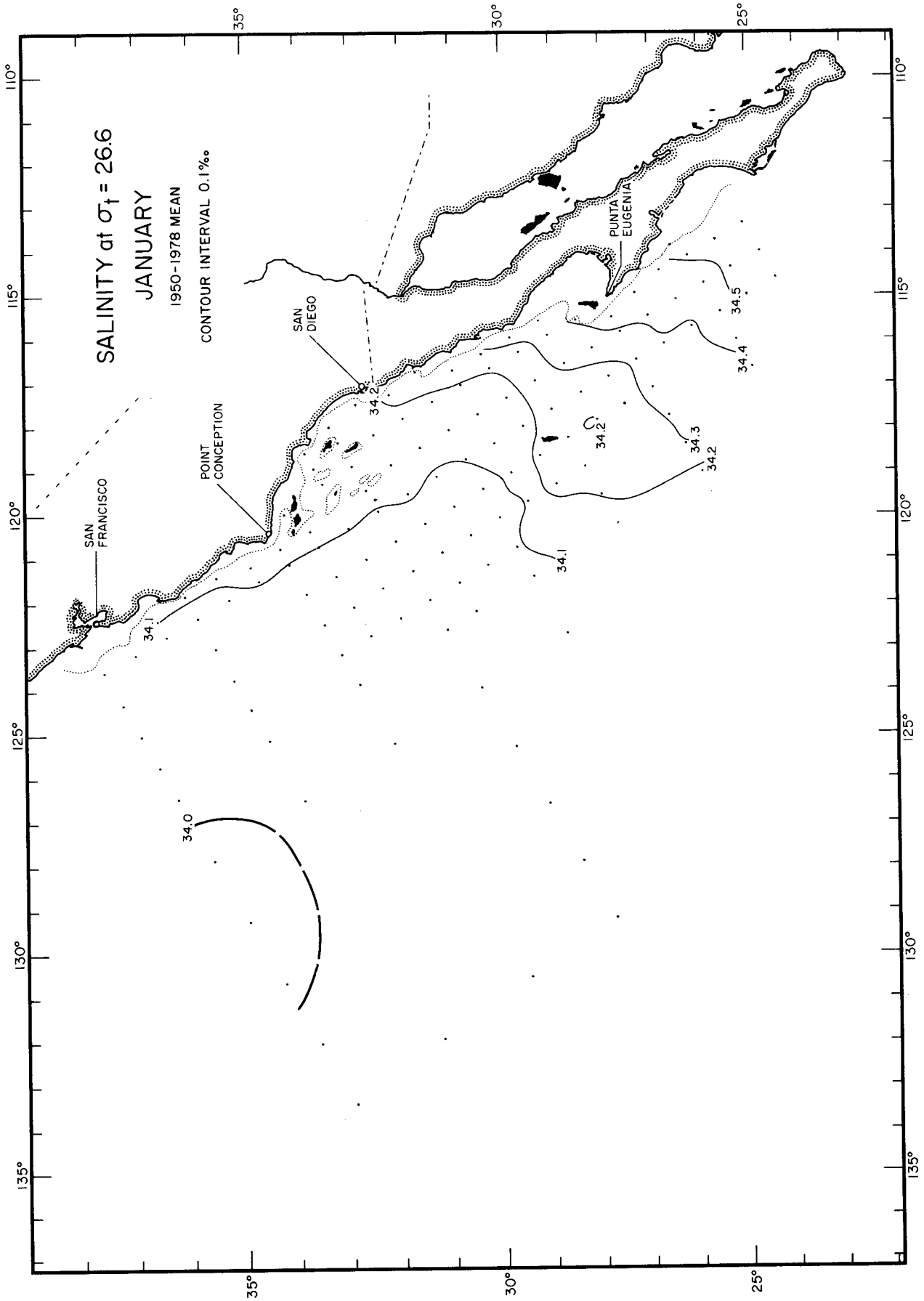

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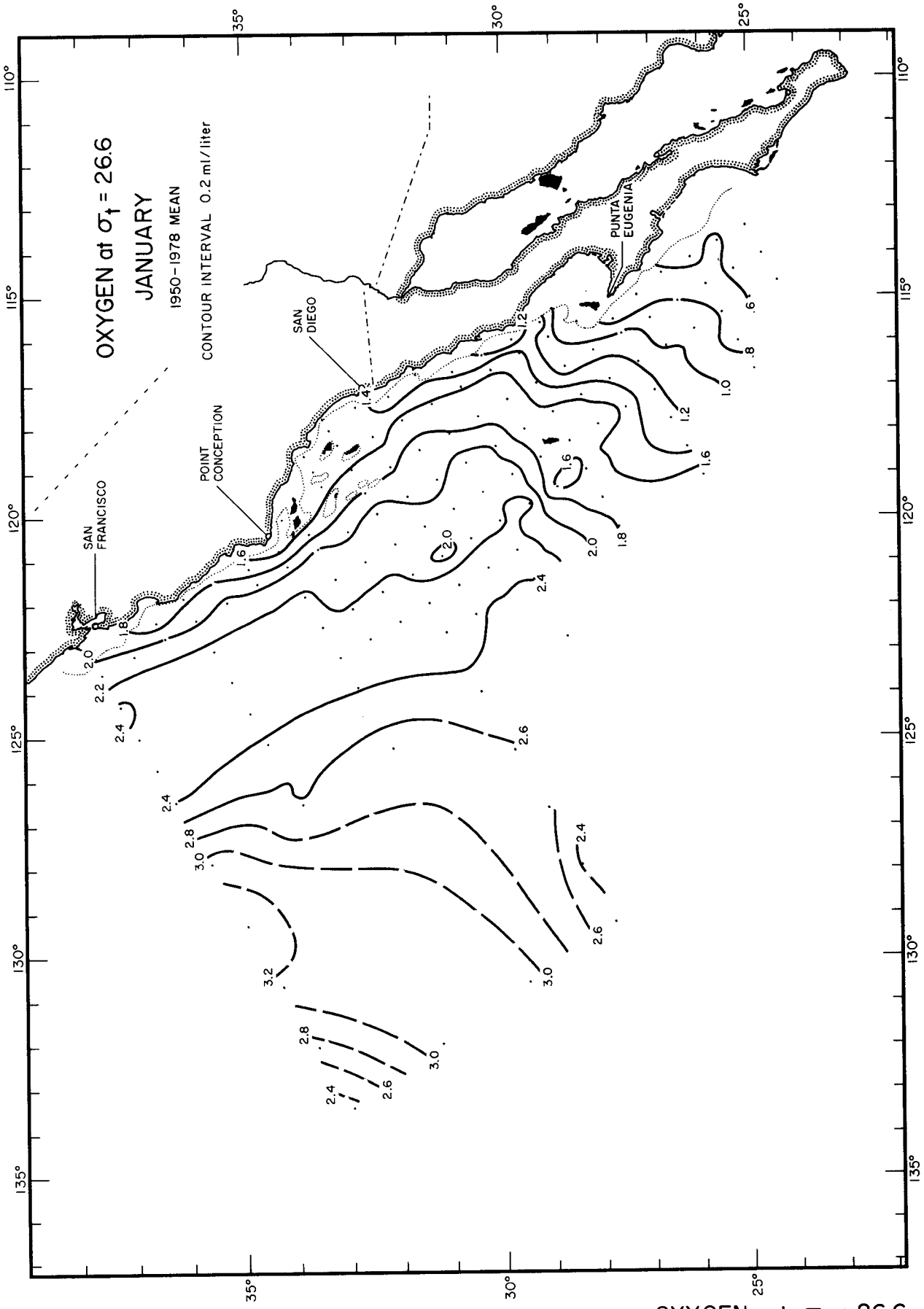

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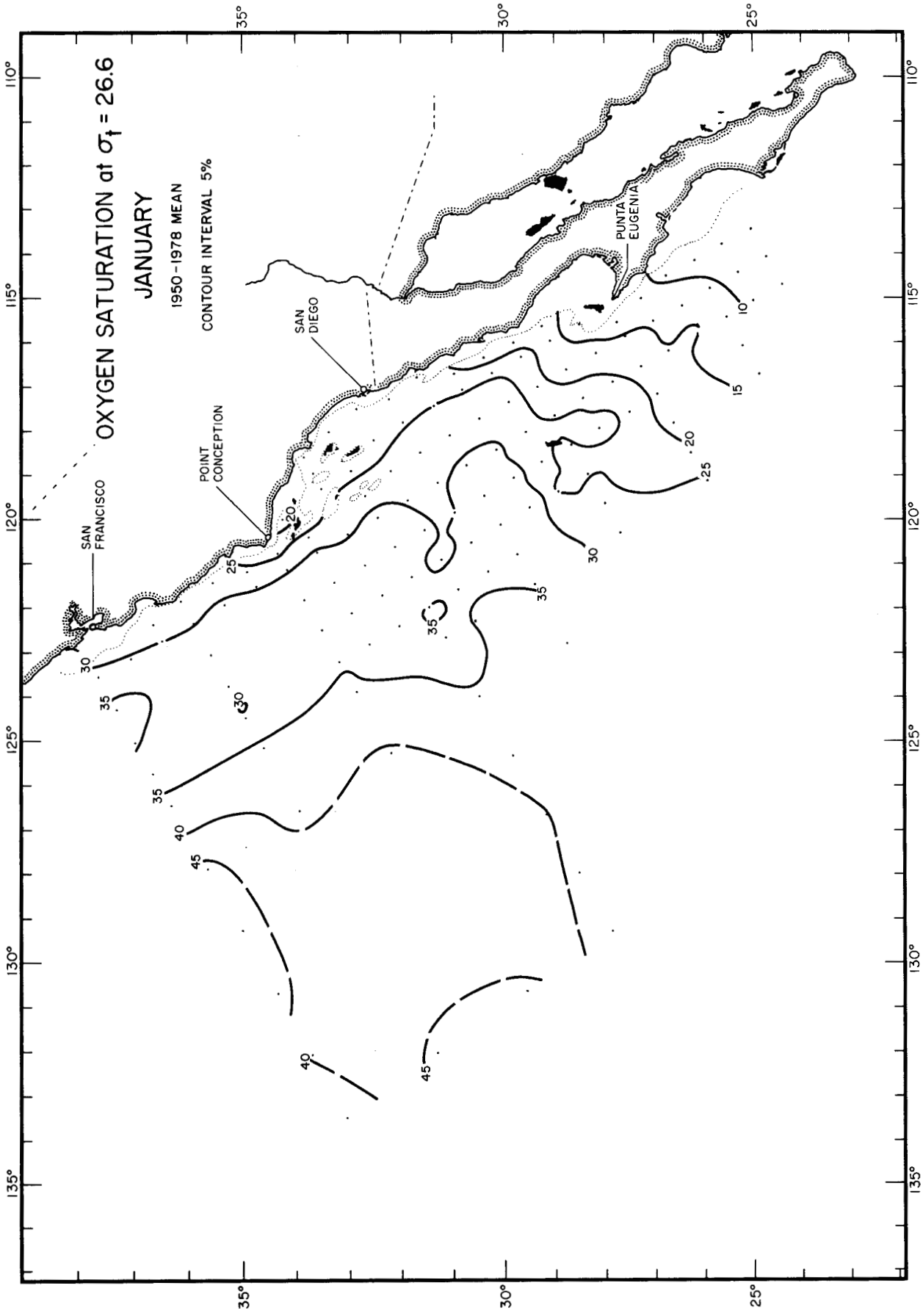

OXYGEN SATURATION at σ_t = 26.6
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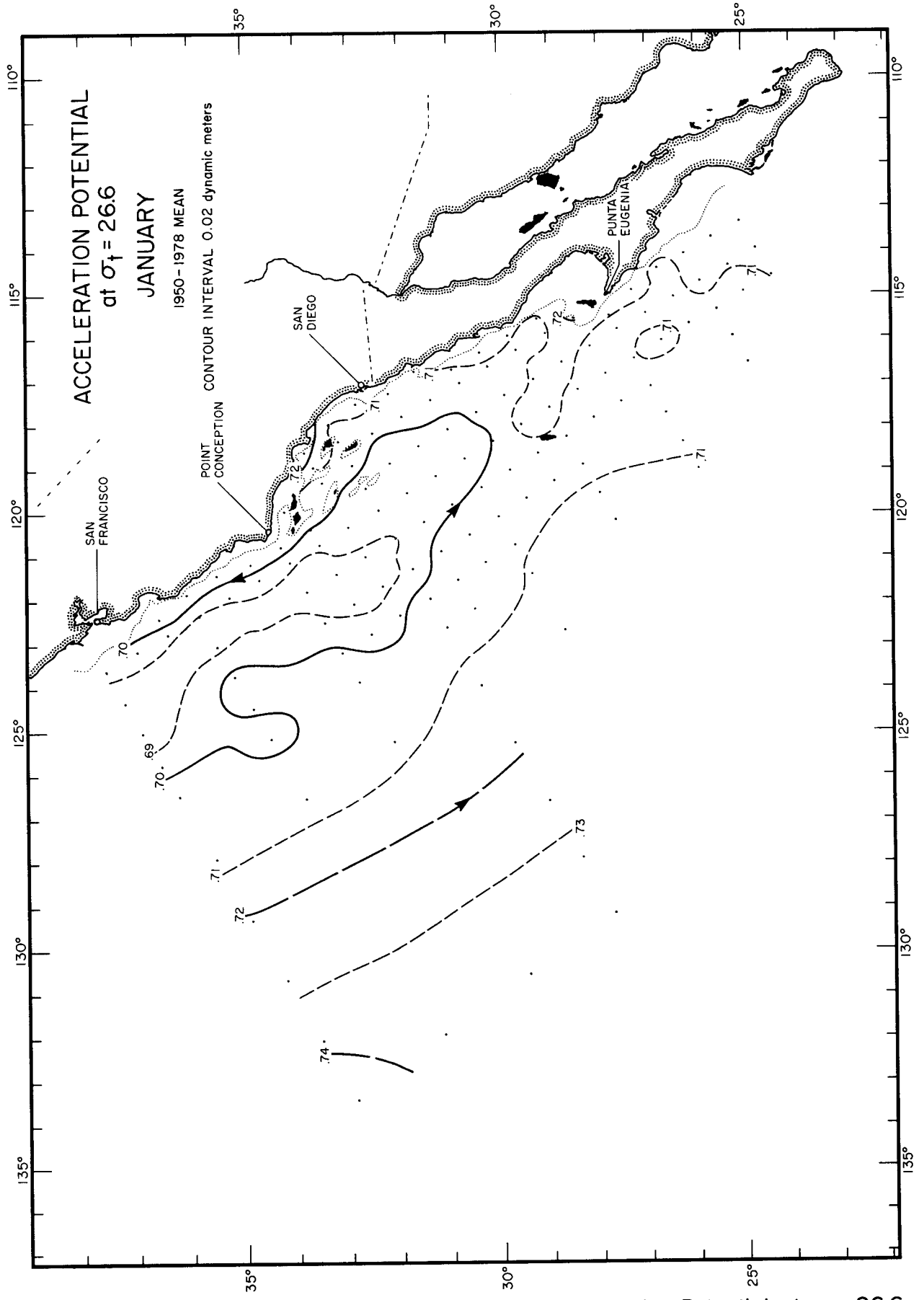

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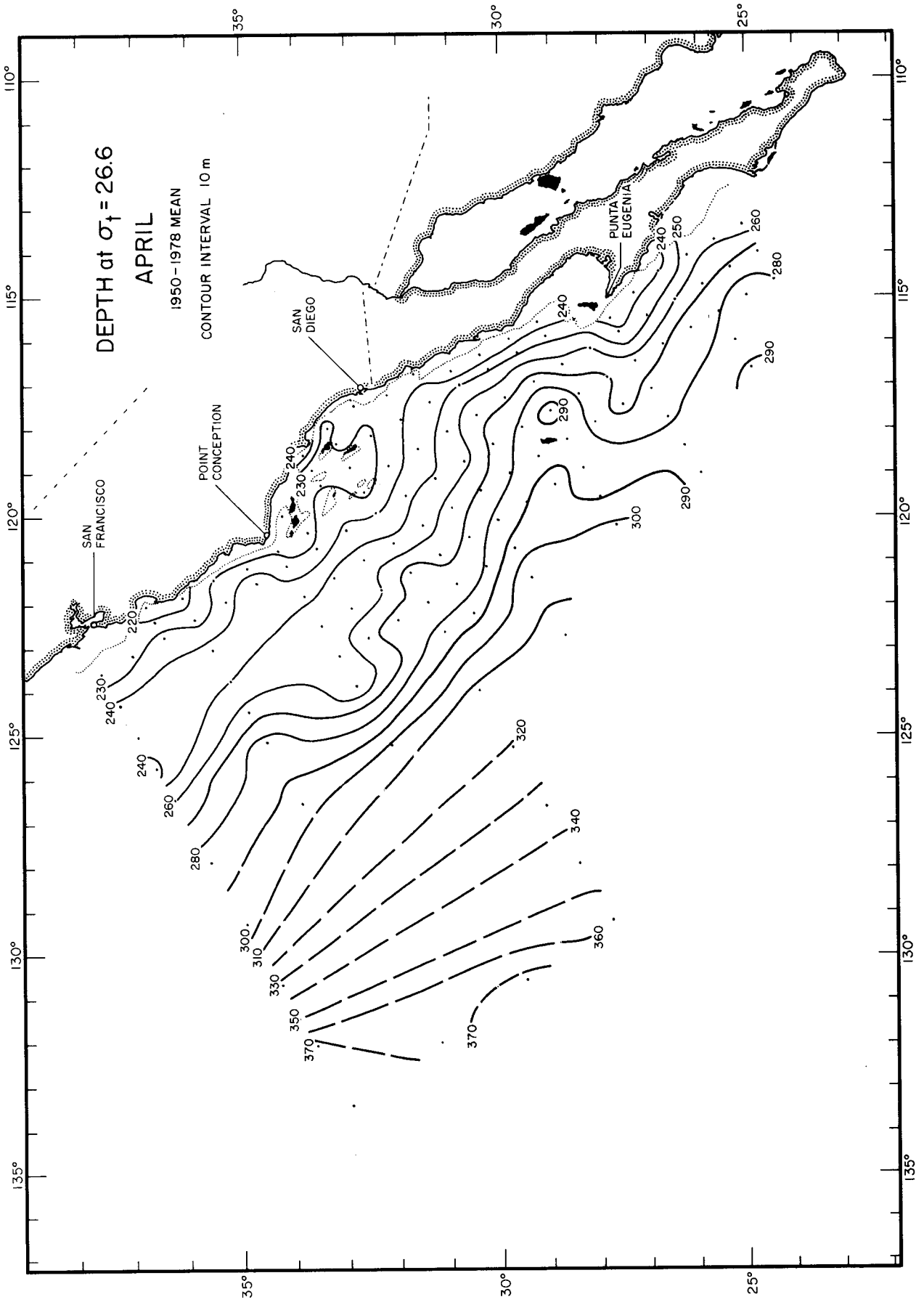
JANUARY



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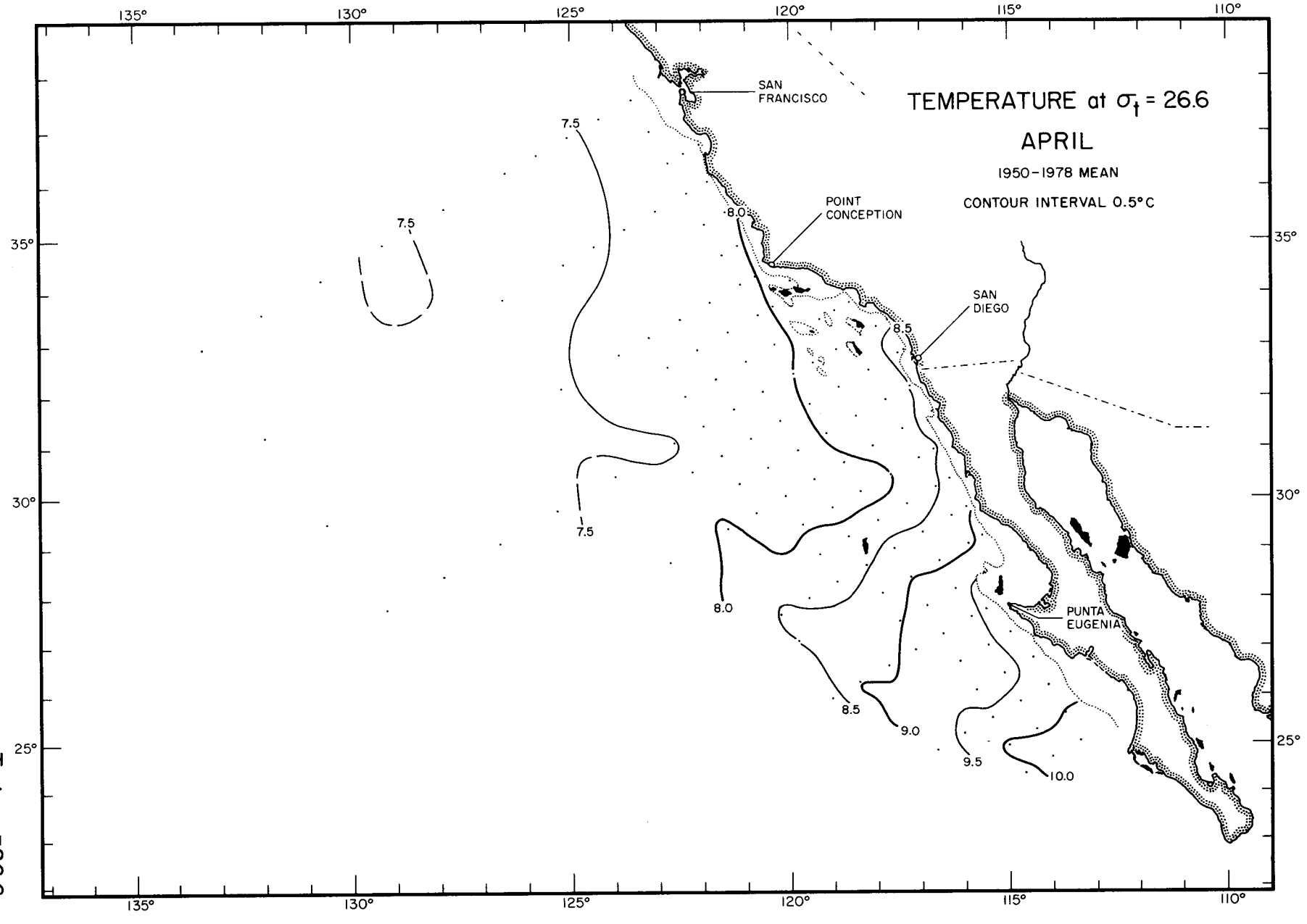

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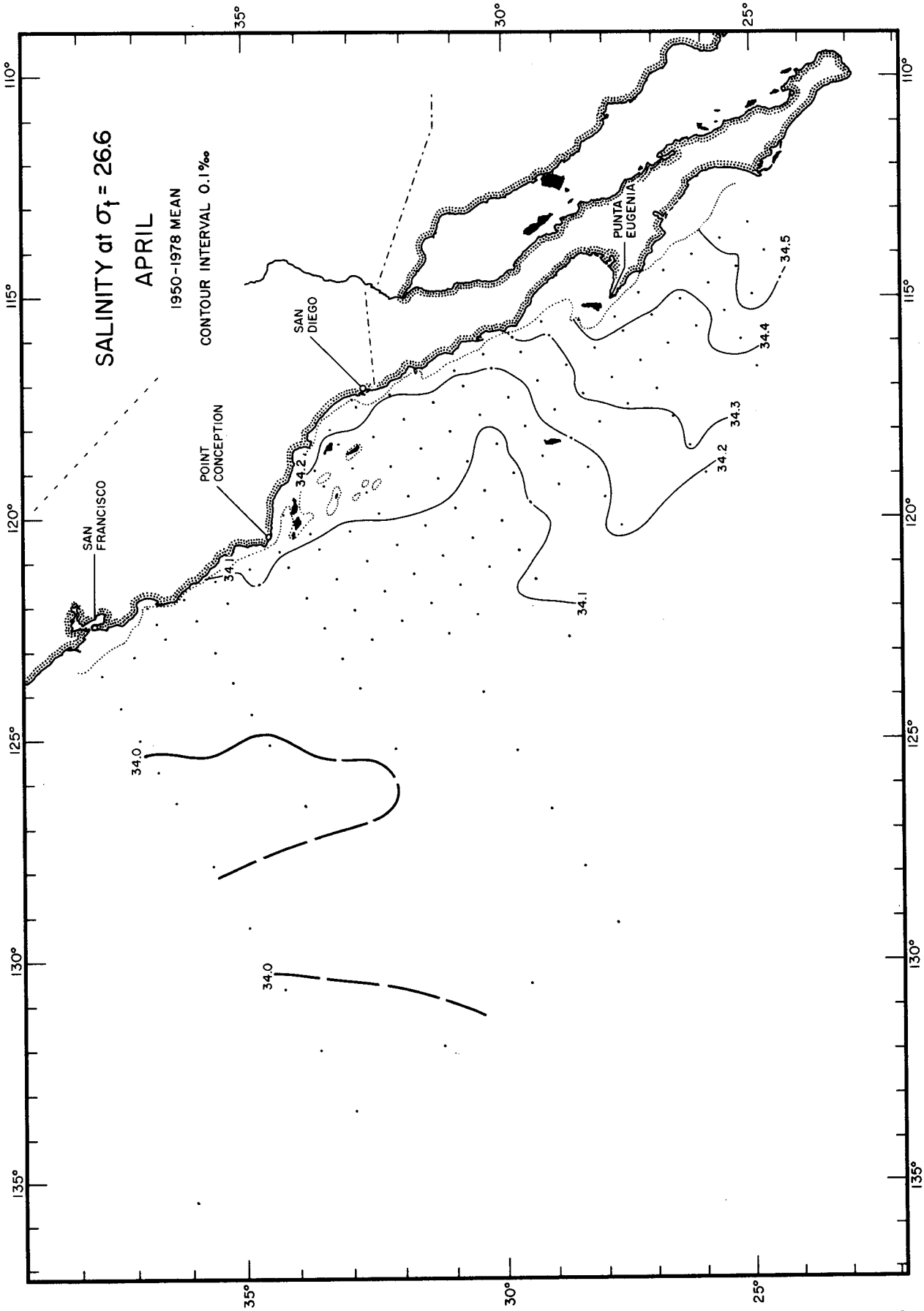

S at σ_t = 26.6
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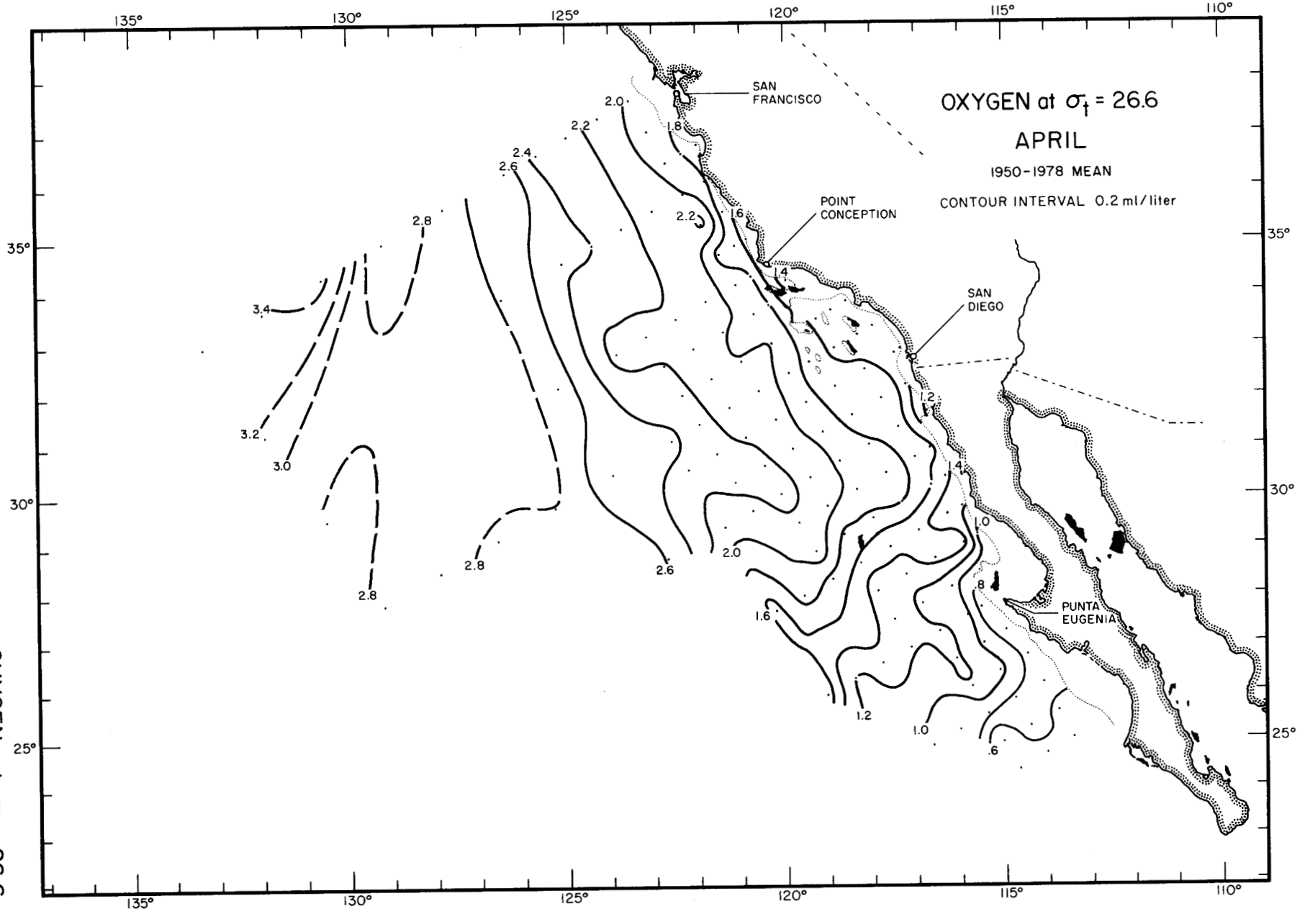

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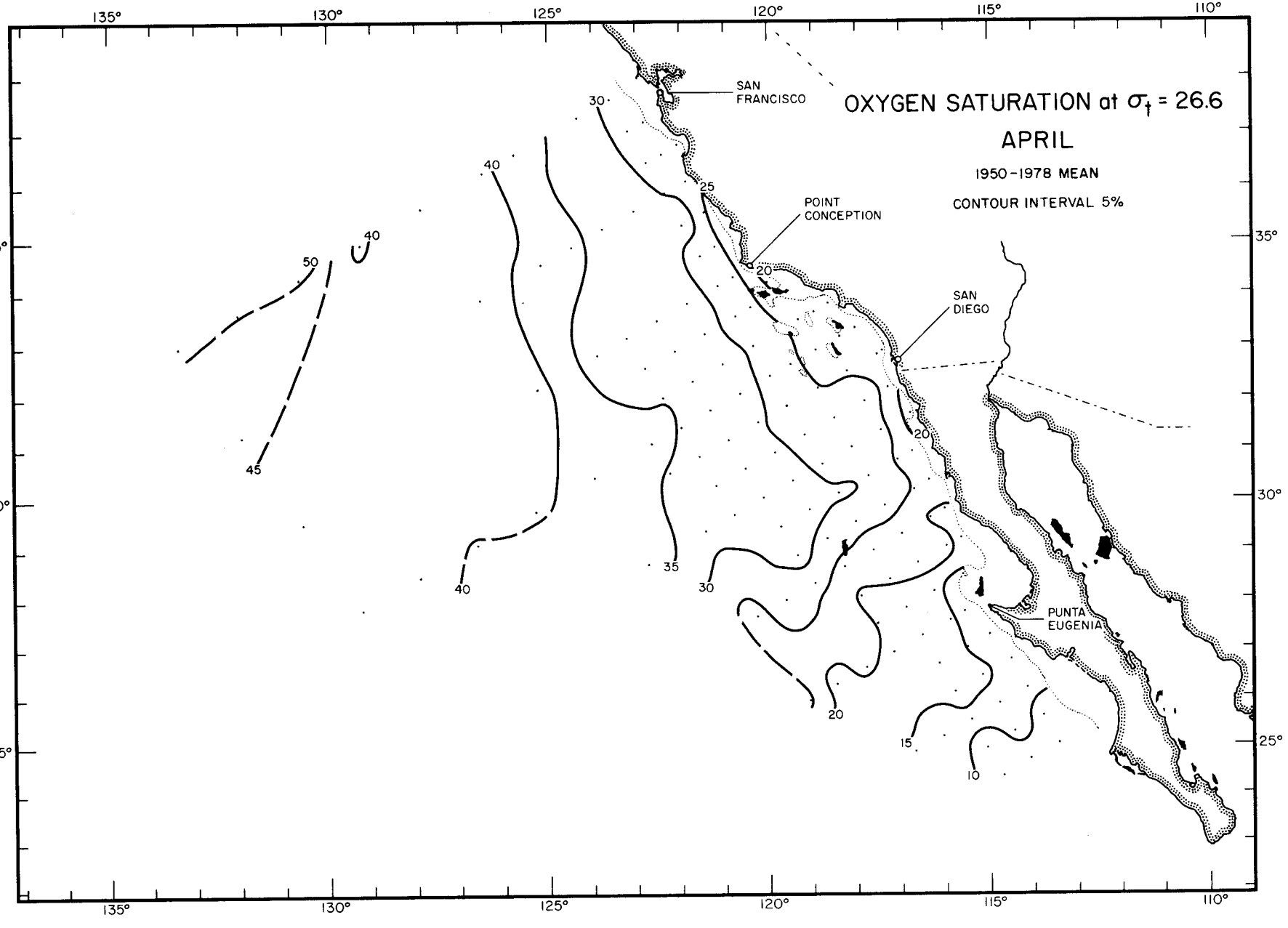

OXYGEN SATURATION at σ_t = 26.8
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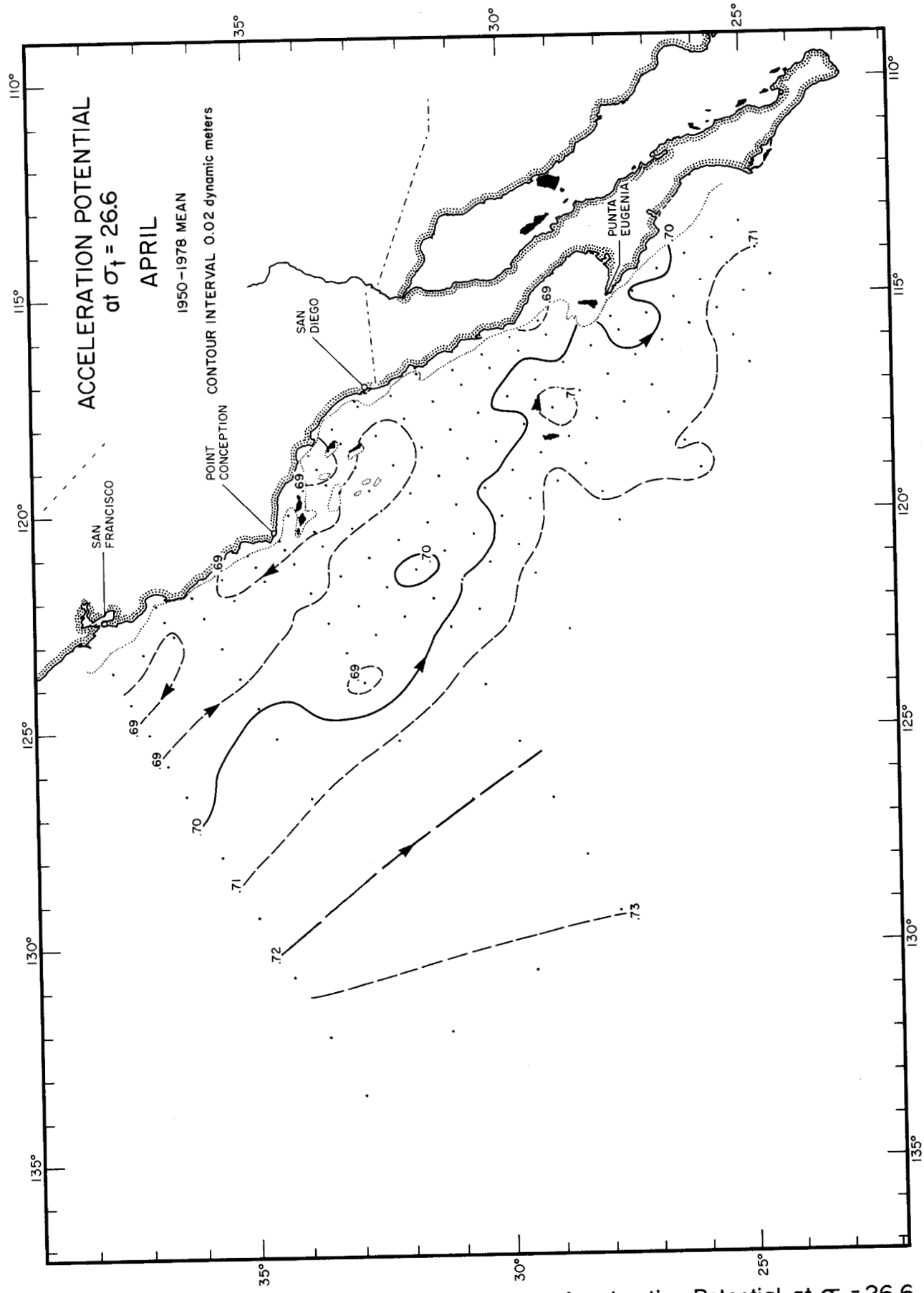

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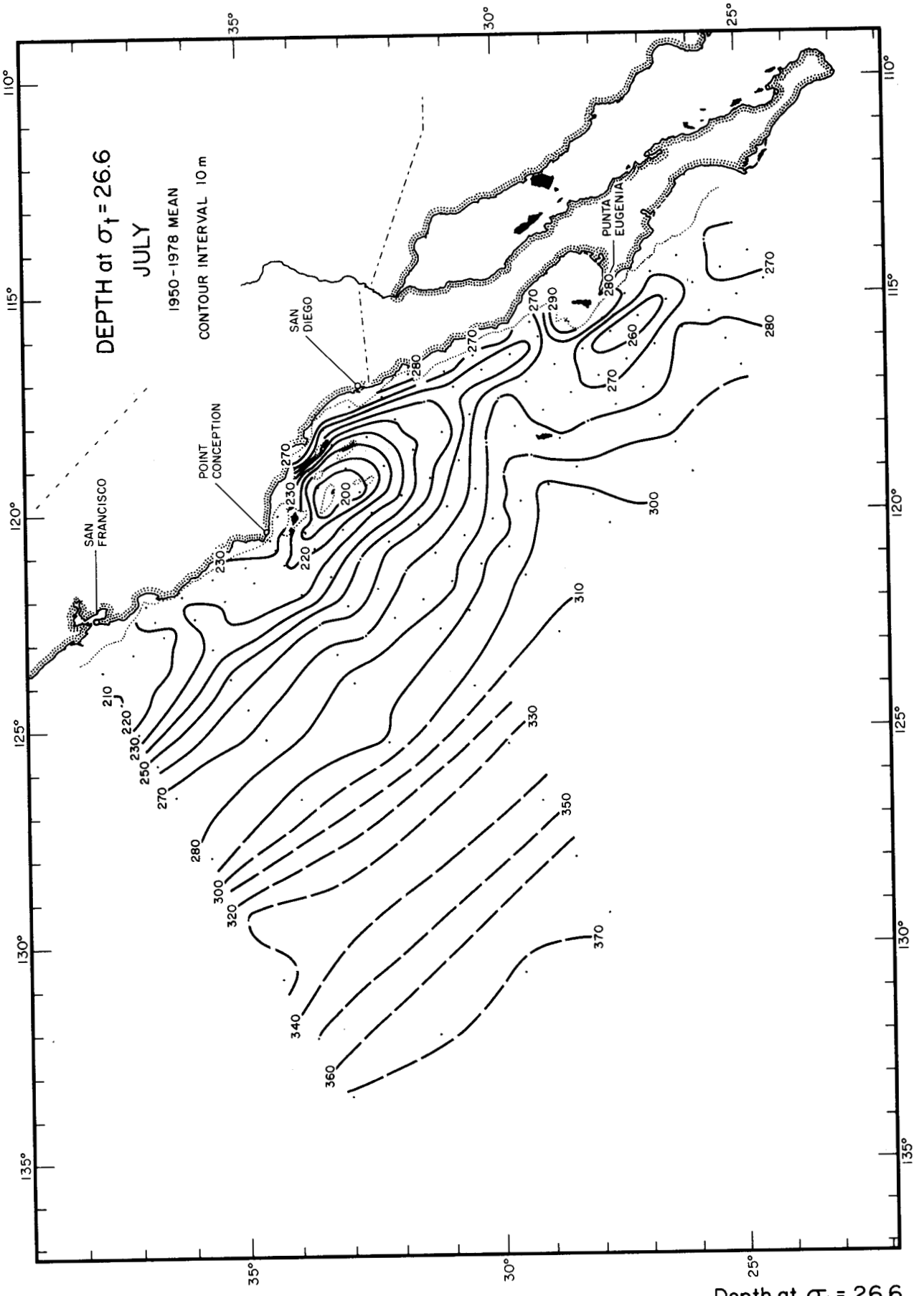

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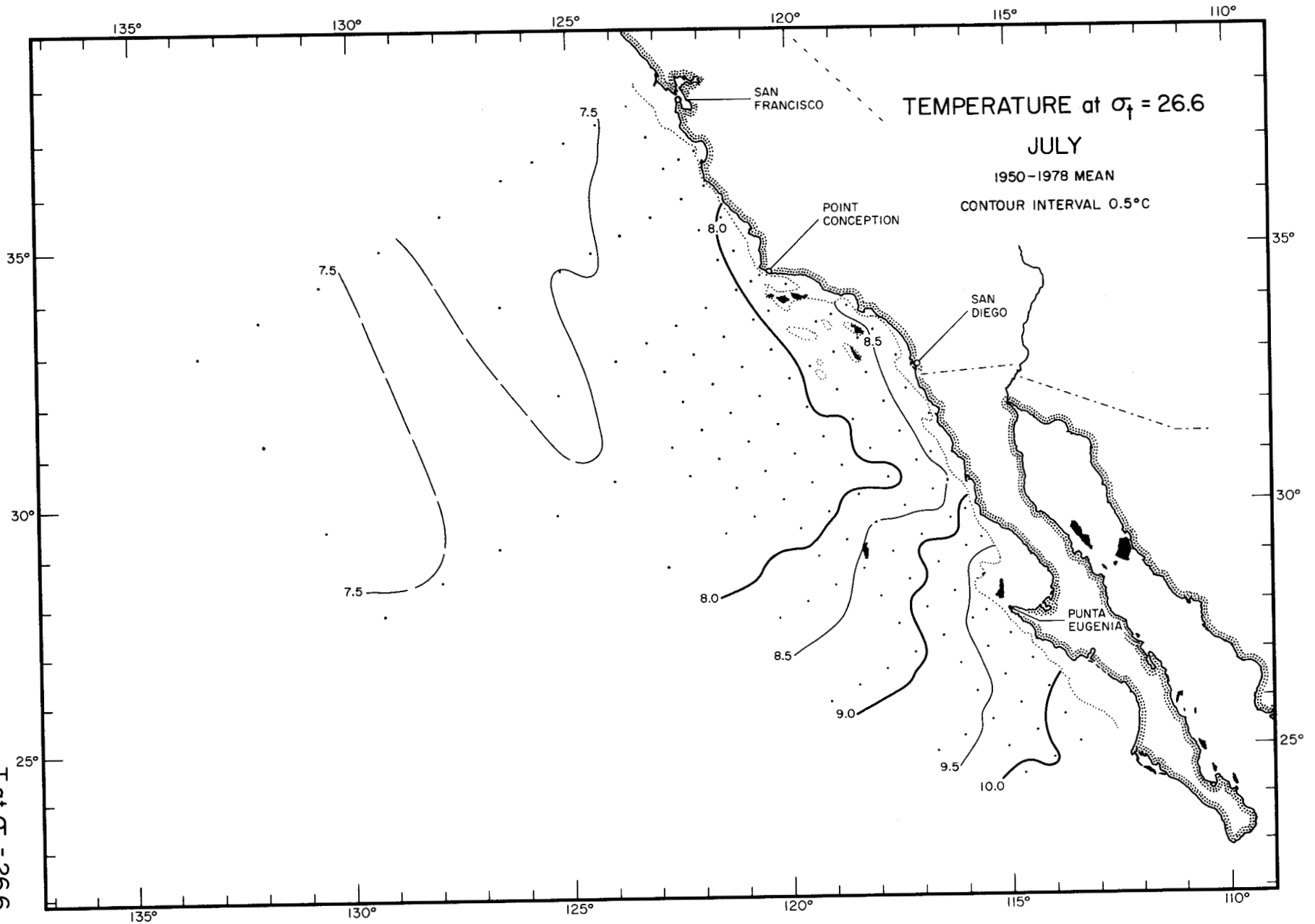

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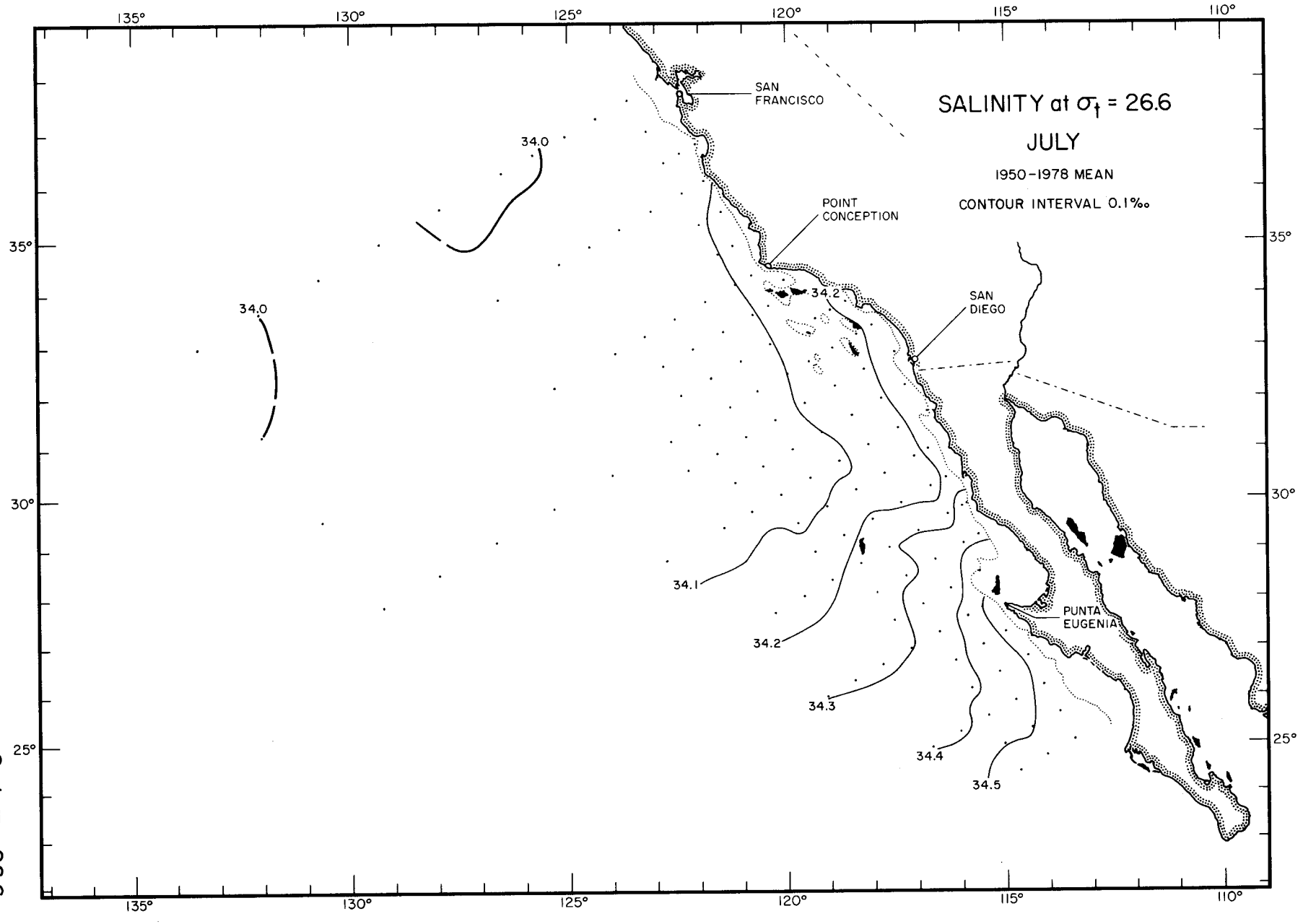

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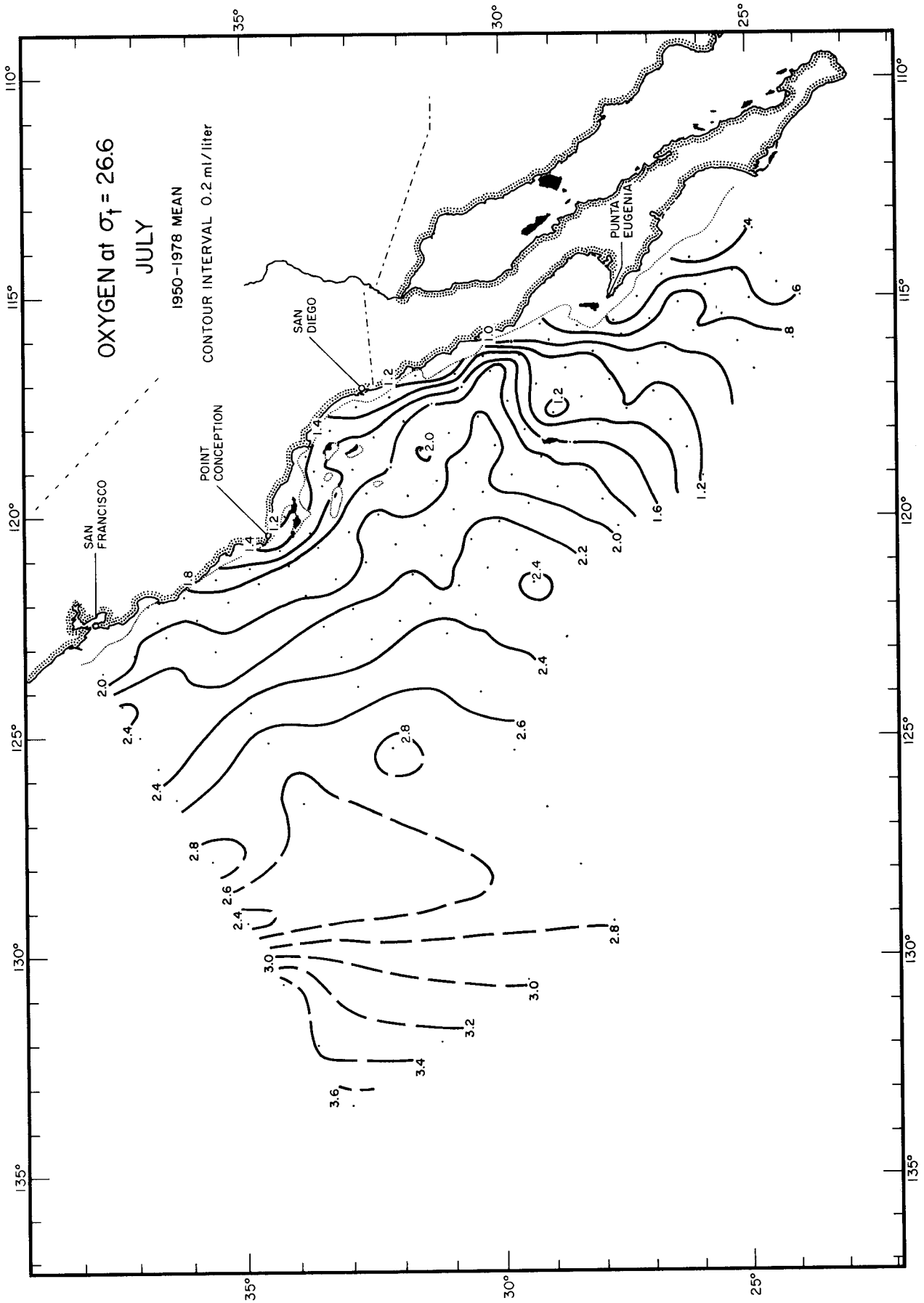

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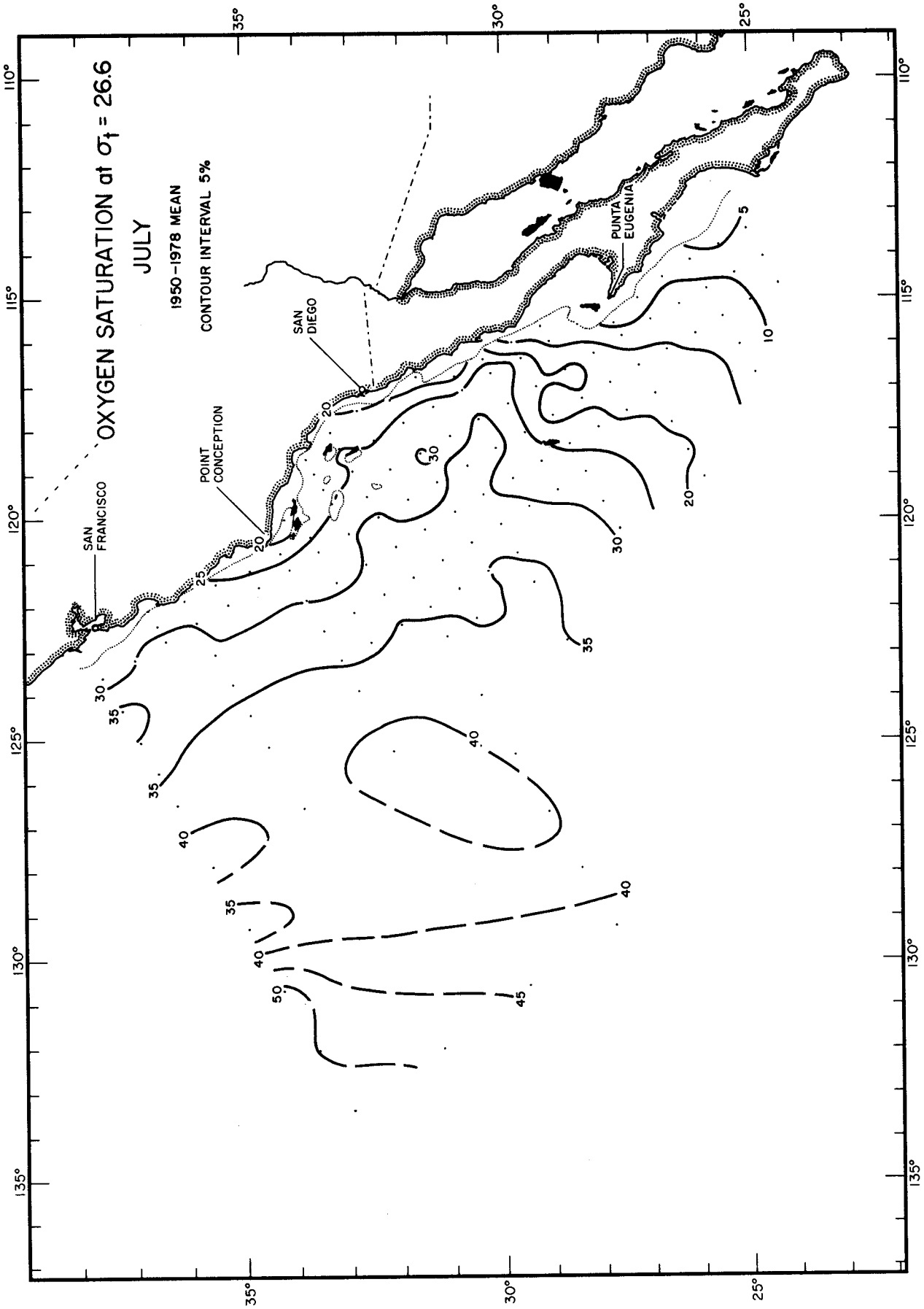

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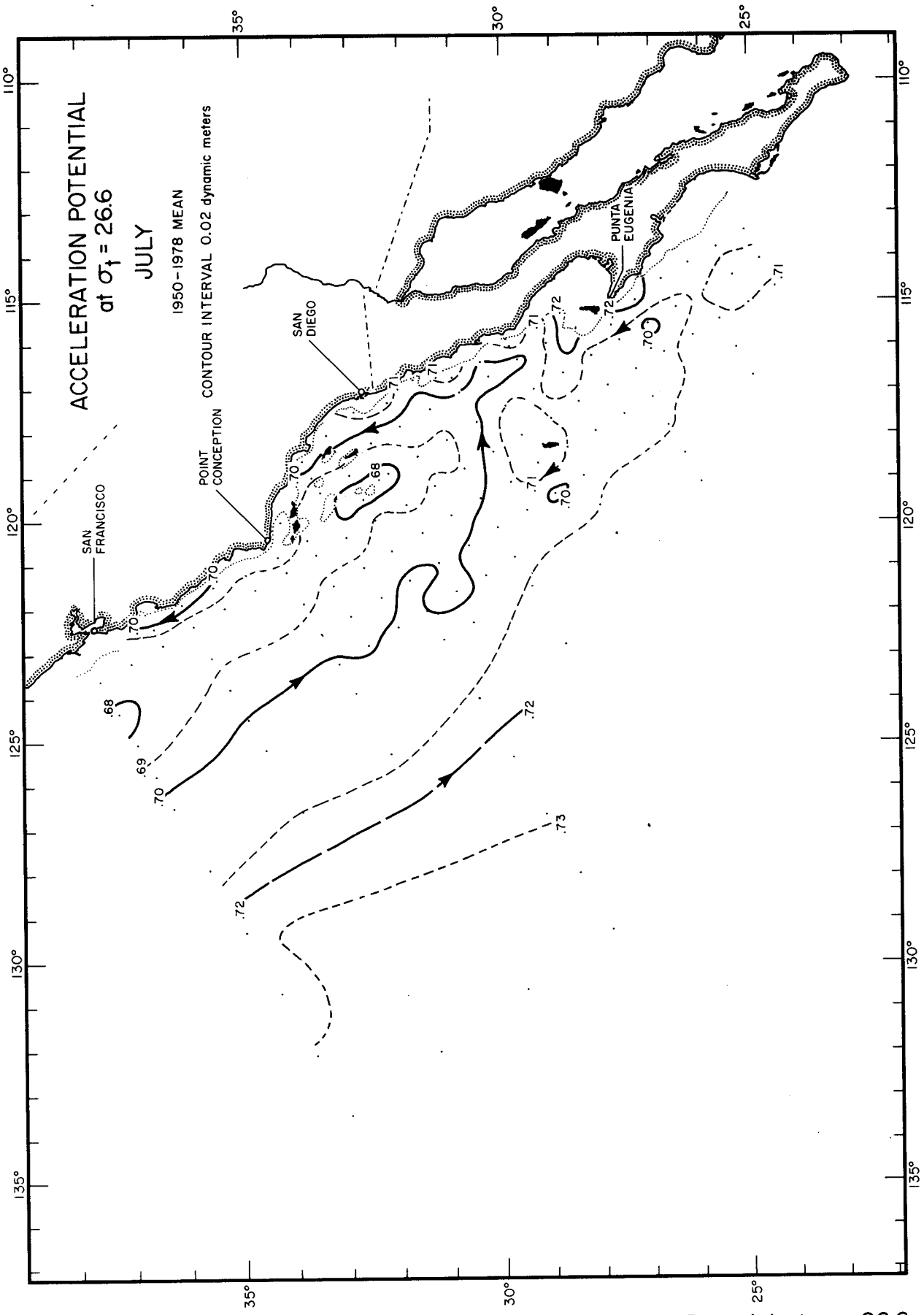

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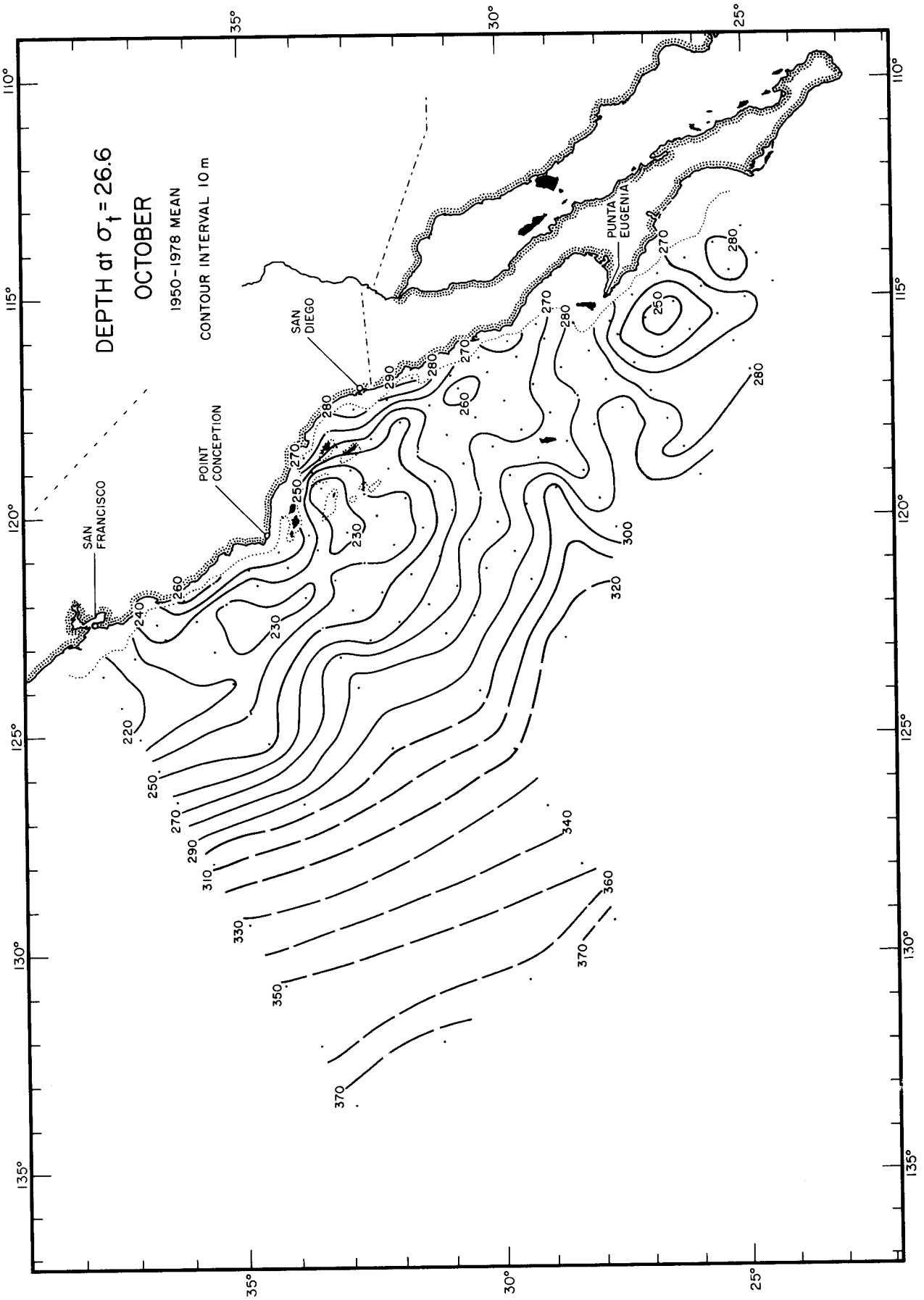
JULY



Depth at σ_t = 26.6
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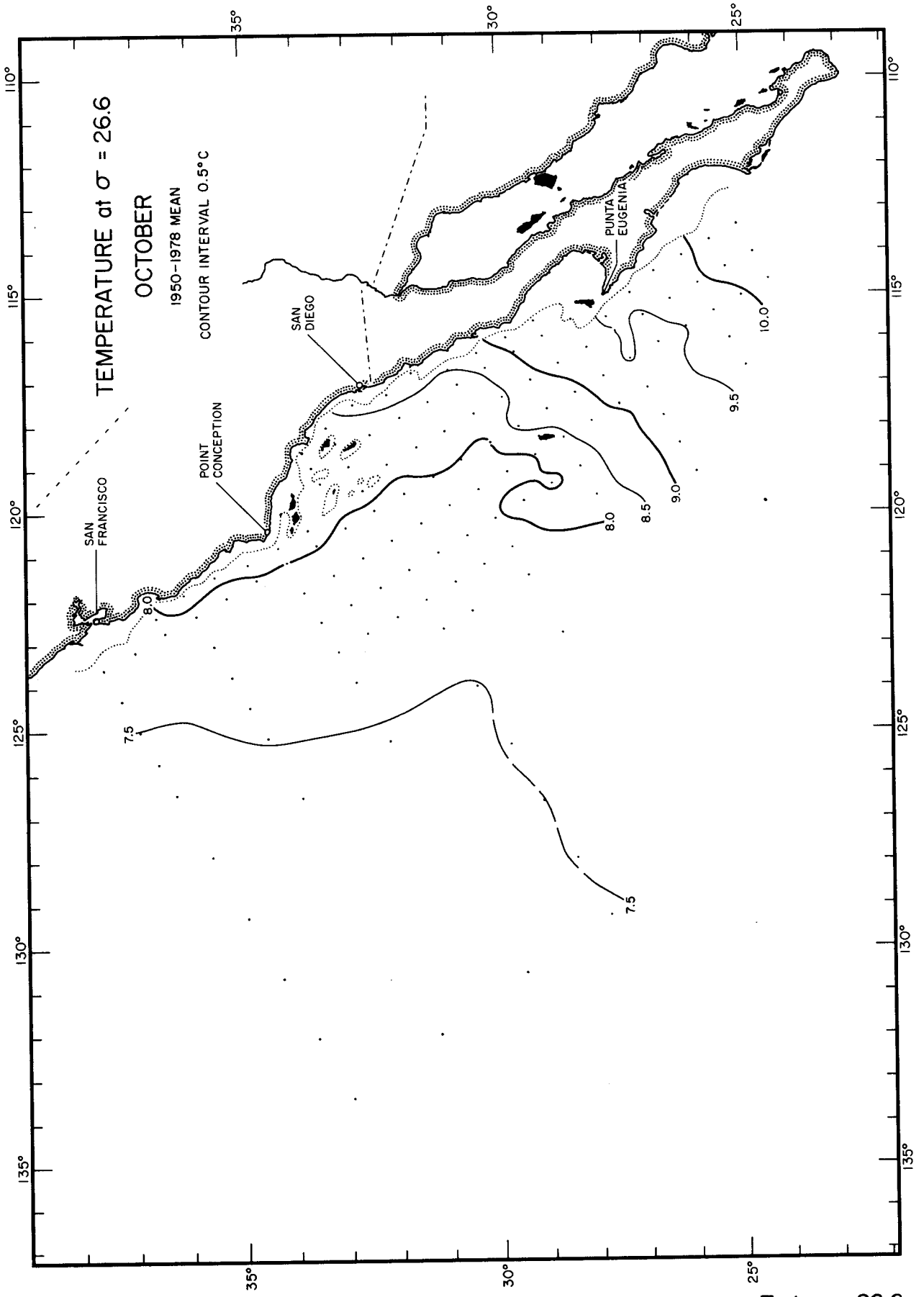

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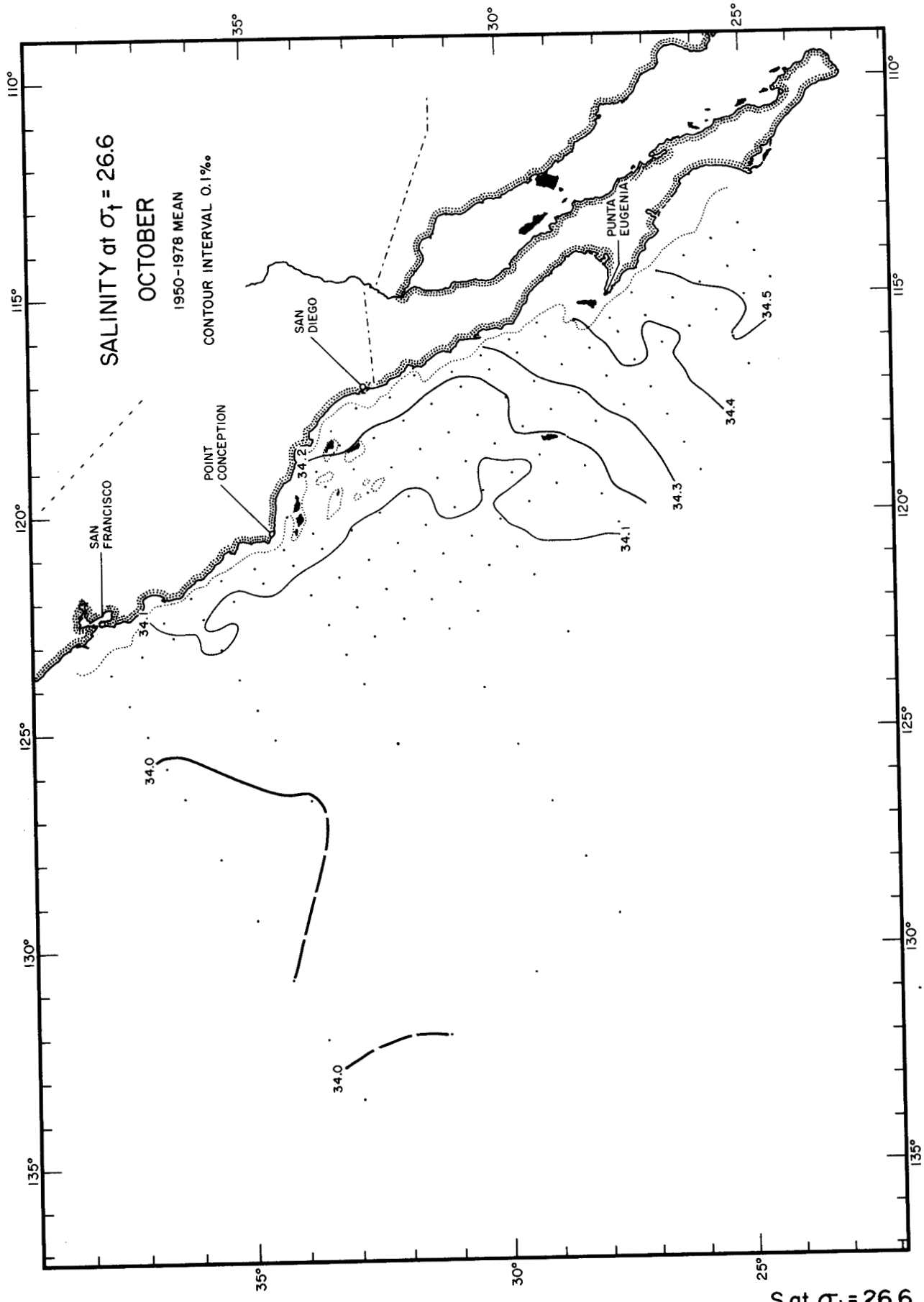

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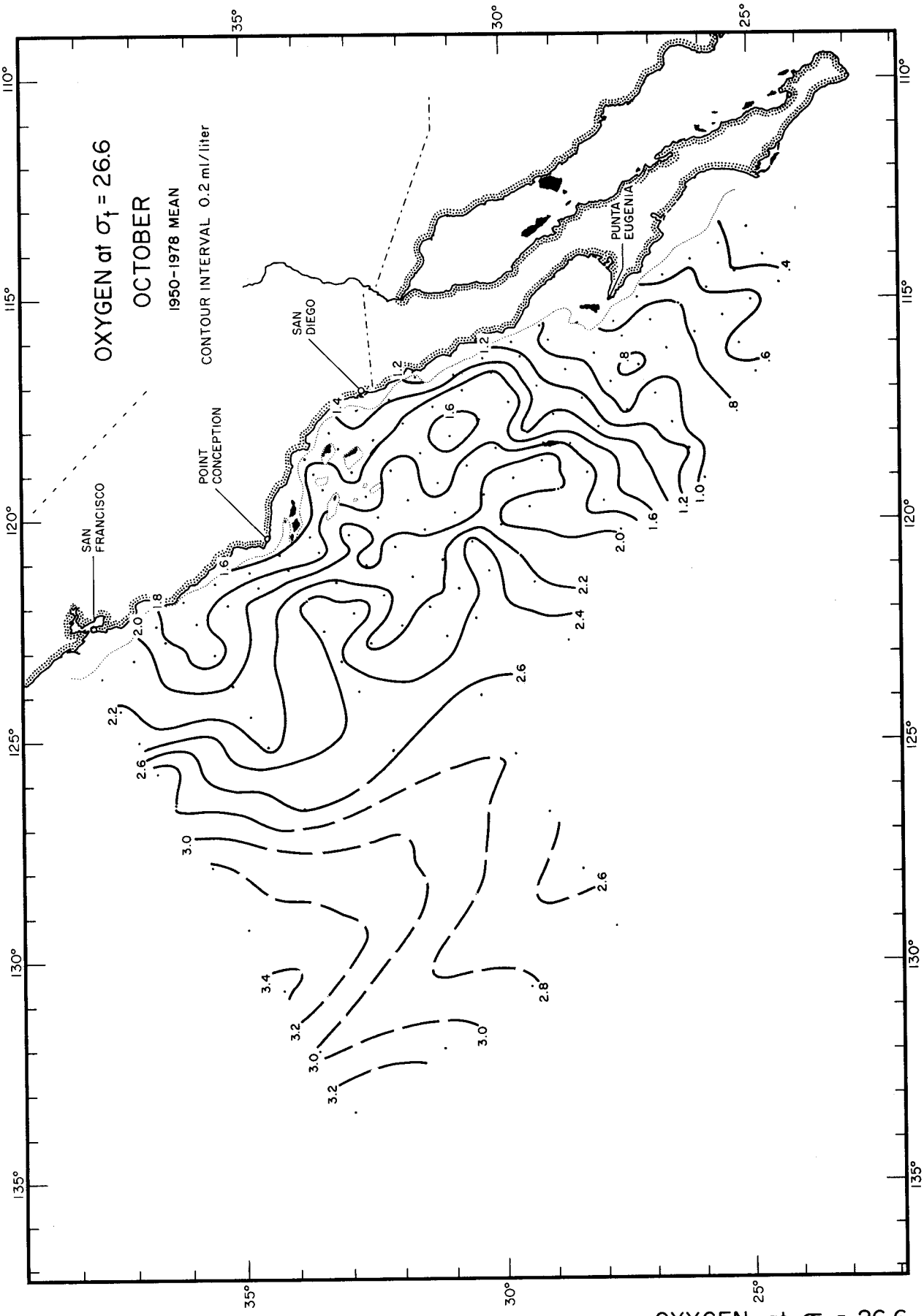

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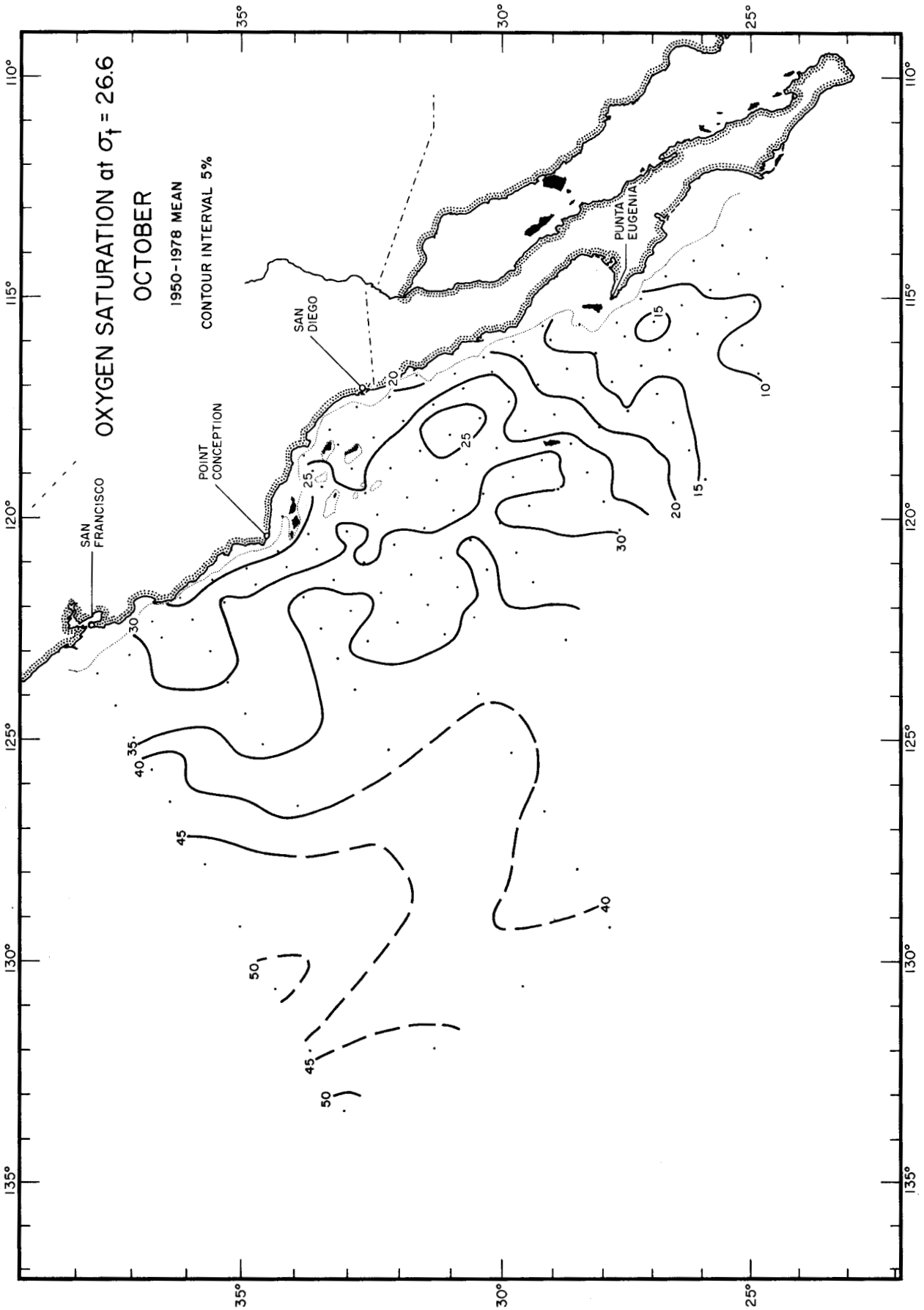

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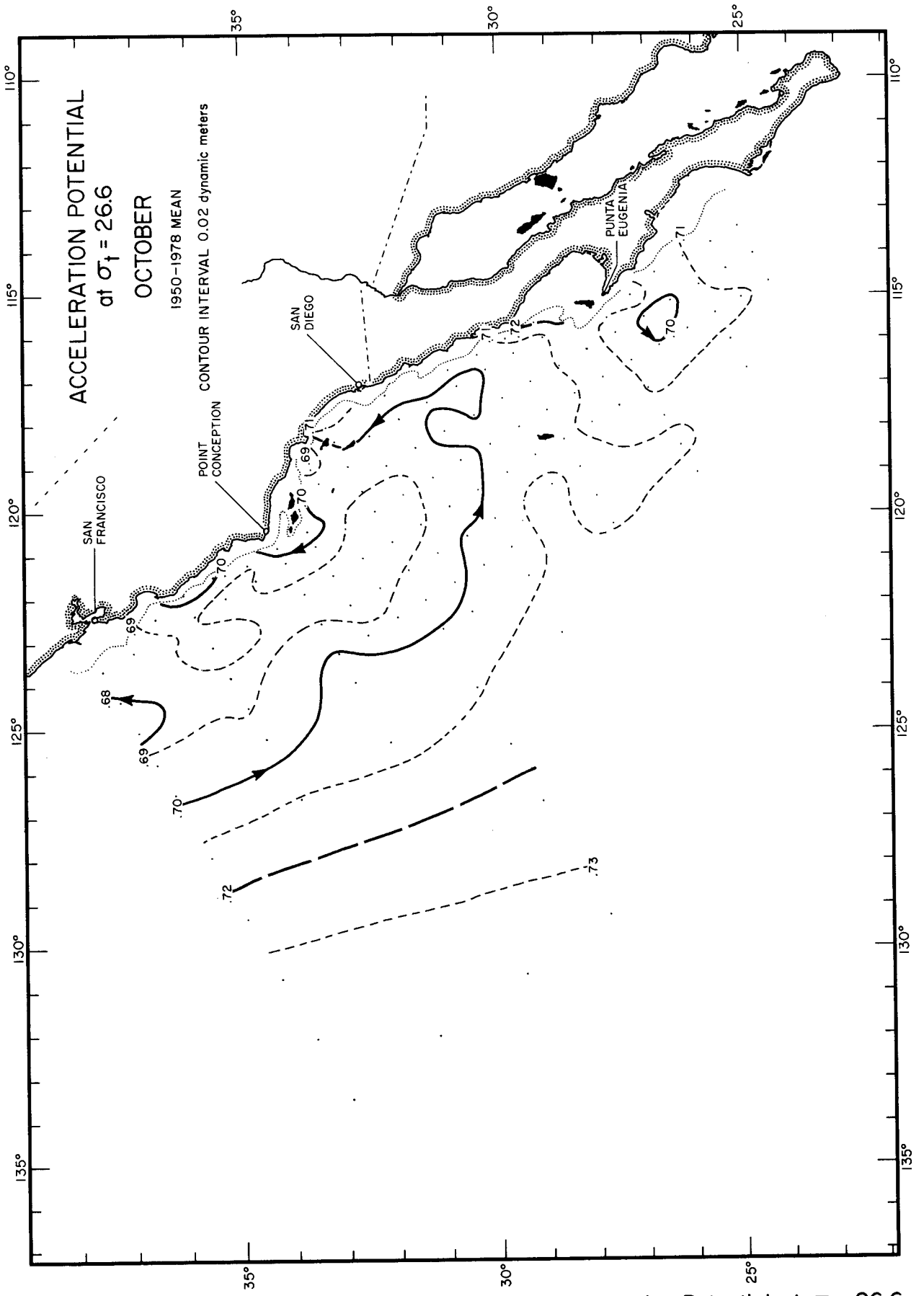

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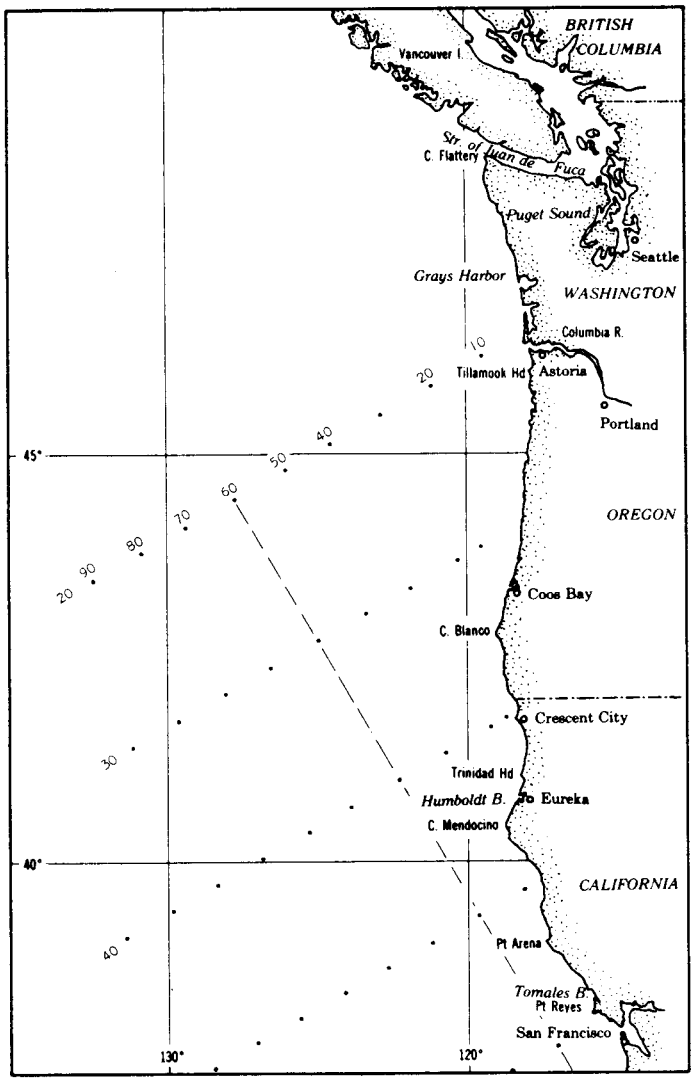

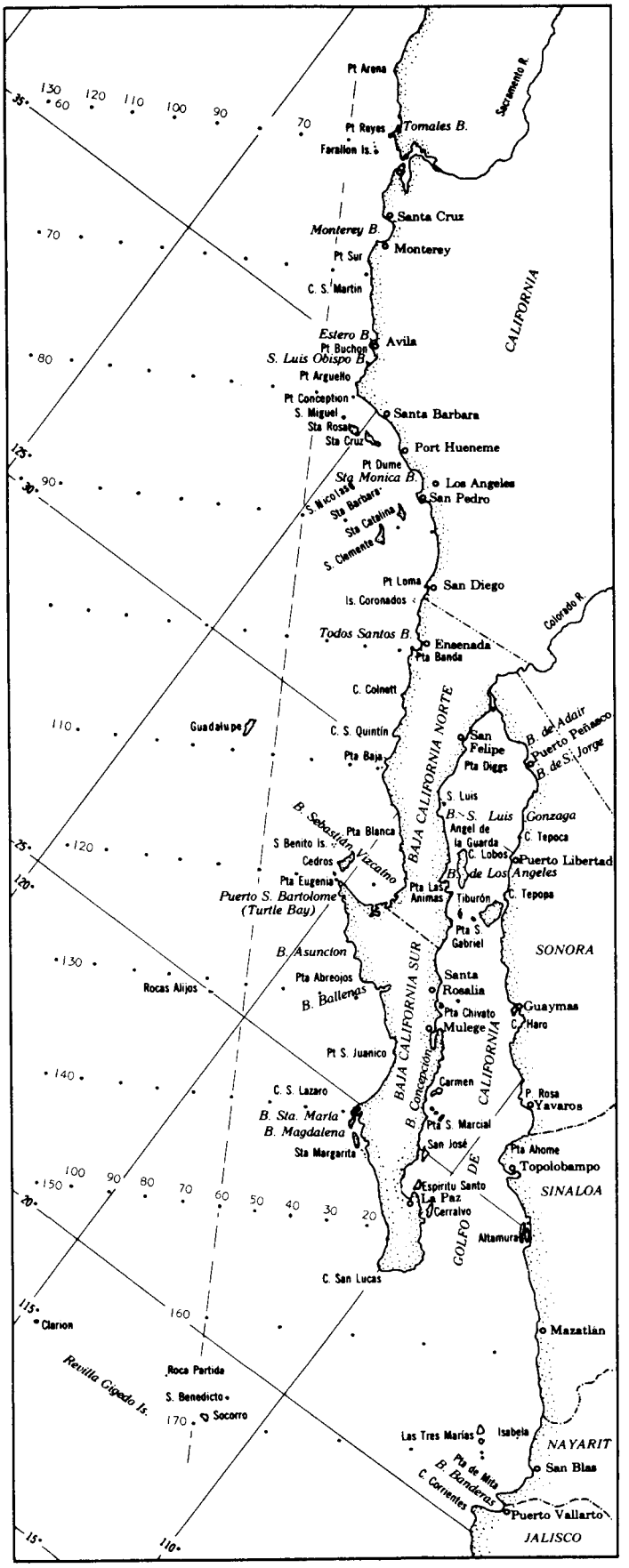

These maps are designed to show essential details of the area most intensively studied by the California Cooperative Oceanic Fisheries Investigations. This is approximately the same area as is shown in color on the front cover. Geographical place names are those most commonly used in the various publications emerging from the research. The cardinal station lines extending southwestward from the coast are shown. They are 120 miles apart. Additional lines are utilized as needed and can be as closely spaced as 12 miles apart and still have individual numbers. The stations along the lines are numbered with respect to the station 60 line, the numbers increasing to the west and decreasing to the east. Most of them are 40 miles apart, and are numbered in groups of 10. This permits adding stations as close as 4 miles apart as needed. An example of the usual identification is 120.65. This station is on line 120, 20 nautical miles southwest of station 60.

The projection of the front cover is Lambert's Azimuthal Equal Area Projection. The detail maps are a Mercator projection.

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R. J. Lynn, K. A. Bliss and L. E. Eber

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