

*David L. Porter*

ATLANTIC OCEAN ATLAS  
OF  
TEMPERATURE AND SALINITY  
PROFILES AND DATA  
FROM THE  
INTERNATIONAL GEOPHYSICAL YEAR  
OF 1957 - 1958

BY  
F. C. FUGLISTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION • WOODS HOLE • MASSACHUSETTS • 1960

**THE  
WOODS HOLE OCEANOGRAPHIC INSTITUTION  
ATLAS SERIES**

**PUBLISHED BY**

**THE WOODS HOLE OCEANOGRAPHIC INSTITUTION  
WOODS HOLE · MASSACHUSETTS**

**VOLUME I      JUNE 1960**

*Woods Hole Oceanographic Institution*



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# PREFACE

Within the framework of the observational program in physical oceanography which was executed during the International Geophysical Year of 1957-58, the WOODS HOLE OCEANOGRAPHIC INSTITUTION, Woods Hole, Massachusetts, in partial association with the NATIONAL INSTITUTE OF OCEANOGRAPHY, England, performed a methodical oceanographic survey covering most of the Atlantic Ocean. Supplemented with similar observations made in the western North Atlantic just prior to the IGY, the data obtained constitute a comprehensive new body of information pertaining to the circulation of the entire Atlantic. To summarize many of the observations in a particularly useful and efficient manner, as well as to perform a fundamental analysis upon them, the following atlas of Atlantic thermohaline structure has been prepared. Although distributions of other properties measured on these cruises might also have been depicted in this volume, it was felt that a more coherent and serviceable atlas would be produced if attention were concentrated exclusively upon temperature and salinity; the measurements of these two variables, moreover, are of consistent quality, since they were all made by a single small research group employing the same techniques and equipment throughout the survey period.

The most graphic and least ambiguous method of representing thermohaline structure described by survey data is to draw a series of profiles of temperature and salinity as functions of depth and ship track position. Spatial distributions in lines across entire oceans may then be seen at a glance. Although this method still involves much interpolation, and hence conceals many probable irregularities, nevertheless, the large number of observations and apparent gross regular behavior of the variables associated with these profiles preclude significantly erroneous interpretations of the data.

The surveys relevant to this atlas occurred between September, 1954, and July, 1959. The included profiles correspond to those ship track segments which were traverses of complete ocean basins. Of the zonal sections, twelve cross the entire Atlantic, while five are limited to its northeastern portion; of the meridional ones, two cut the western North Atlantic, and four others, the Caribbean.

The classical oceanographic station, involving serial observations from surface to bottom with reversing thermometers and Nansen bottles, was the principal source of thermohaline information. These station data were used to produce the profiles which extend over the entire depth of the ocean. The appropriate members of this set may profitably be compared with Wüst's profiles of temperature and salinity associated with sections run principally in the South Atlantic between 1925 and 1927 by the German Atlantic Expedition of the Research Vessel METEOR (Wüst and Defant, 1936). Such comparison provides dramatic evidence for the steady-state character of large-scale Atlantic Ocean dynamics.

Thermal structure was also probed during these cruises with the bathythermograph. Since this instrument is lowered from a moving ship, and produces a continuous record of temperature with depth through more than two hundred meters of water, it makes practical very much denser measurements of temperature in that upper layer than reversing thermometers could feasibly provide. Accordingly, in order to show in finer detail the surface layer structure associated with some of the above sections, this atlas presents for the first time transatlantic profiles drawn from bathythermograph data. Although many of the small-scale features of these particular profiles must be transient, it seemed worthwhile, nevertheless, to illustrate in this way the very complex character of the actual temperature distribution.

The cost of preparation and publication of this atlas was borne by a grant from the National Science Foundation, made in support of the International Geophysical Year Interdisciplinary Research Program. All data presented were collected under the personal supervision of L. V. Worthington, W. G. Metcalf, A. R. Miller, and F. C. Fuglister. G. G. Pasley, Jr. directed drafting and art work. The plotting and checking of the data were done by E. Soderland.

— F. C. FUGLISTER

Woods Hole, Mass.  
March, 1960

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WOODS HOLE OCEANOGRAPHIC INSTITUTION CONTRIBUTION NO. 1108  
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*During the International Geophysical Year, the observational program was supported by the National Science Foundation, Grant NSF Y/9.5/80, and by the Office of Naval Research, Contract Nonr-2196(00), NR 083-004. Reproduction in whole or in part is permitted for any purpose of the United States Government.*



Overall picture of the WOODS HOLE OCEANOGRAPHIC INSTITUTION and the NATIONAL INSTITUTE OF OCEANOGRAPHY Atlantic Ocean Survey. A detailed chart of the oceanographic station positions is shown on page 93 and charts showing the lines of bathythermograph observations on page 153.

## OBSERVATIONAL PROGRAM

In 1954, L. V. Worthington of the WOODS HOLE OCEANOGRAPHIC INSTITUTION began a survey of the western North Atlantic designed to repeat certain earlier stations and to determine in some detail deep and bottom water structure. His basic station pattern was a set of rays, diverging from Bermuda, which extended over the western basin of the North Atlantic from the coast of North America to the Mid-Atlantic Ridge. The work completed before the International Geophysical Year defined in the deep water a very precise correspondence be-

tween temperature and salinity, and, in the shallow levels, the region occupied by the 18°C. water (Worthington, 1959 a). This lenticular body, centered at a depth of 300 meters, and characterized by a temperature of  $17.9 \pm 0.3^\circ\text{C}$ . and a salinity of  $36.5 \pm 0.1\text{‰}$ , is easily recognized on all profiles passing through the western basin of the North Atlantic, seaward of the Gulf Stream and north of the Antilles.

Only a few of the many stations made during this pre-IGY study have been used in the compilation of this atlas.



On these observations are based the meridional profiles along 50°W.; the meridional profiles along 66°W. exclusive of the portions between Bermuda and the Antilles; and the parts of the zonal profiles along 32°N., east of longitude 50°W. All the data taken by Worthington are to appear in the "Bulletin Hydrographique".

In the late winter and spring of 1957, F. C. Fuglister began the International Geophysical Year research activities of the WOODS HOLE OCEANOGRAPHIC INSTITUTION by performing a survey in the tropical Atlantic which became prototypic for Woods Hole's subsequent contributions to the IGY program in oceanography (Fuglister, 1957). On the Research Vessel CRAWFORD, Captain David F. Casiles, Fuglister ran three transatlantic sections along latitudes 8°N., 8°S., and 16°S. Continuous recordings of bottom topography were made, temperatures measured, and collected water samples analyzed for salinity, and concentrations of dissolved oxygen and phosphorus (inorganic as well as total amount). To perform a grand examination of the time-scale of gross oceanic processes, the two South Atlantic sections and the 24°S. and 32°S. sections made later during the IGY were run along the latitudes of METEOR Profiles IV, VI, VII, VIII. The distributions of temperature and salinity are virtually identical to those found over thirty years earlier (Wüst and Defant, *op.cit.*). In general, the very small differences found indicate that the water at mid-depths has become slightly cooler and more saline, while the Antarctic water on the bottom of the western basin has become slightly warmer and more saline than at the time of the METEOR Expedition.

Although the Mid-Atlantic Ridge is less conspicuous along 8°N. than on any other transatlantic section, a change in bottom water types across the Ridge is still apparent. This striking feature is associated with the presence much farther south of the Walvis Ridge, which prevents entry of deep Antarctic water into the eastern basin of the Atlantic. It is to be noted that here the Antarctic Bottom Water of the western basin is pressed against the Mid-Atlantic Ridge, in contrast to its concentration along the basin's western boundary in the South Atlantic.

Throughout this and the greater number of succeeding IGY cruises, bathythermograph observations were made hourly. All the bathythermograph data obtained are reproduced in this atlas, but profiles have been drawn only for those transatlantic sections along which stations were also made.

While this first CRAWFORD cruise was underway, the Royal Research Ship DISCOVERY II, Captain S. S. F. Dalgliesh, of the NATIONAL INSTITUTE OF OCEANOGRAPHY, crossed the Atlantic to join the ATLANTIS in the measurement of deep currents off the coast of South Carolina

(Swallow and Worthington, 1957). Its return voyage to England started a new phase of the IGY survey, which exemplified notably the cooperative nature of IGY activities: American and British oceanographers, working on this vessel under the leadership of H. F. P. Herdman of the N.I.O., undertook a series of sections in the North Atlantic, beginning with one which ran from the southern tip of the Grand Banks of Newfoundland to the offing of the English Channel. Mr. Worthington participated on the cruise, because this 48°N. section contributed data of particular relevance to his continuing study of the western North Atlantic (Worthington, 1958). The associated profiles suggest the complexity of the flow pattern in the western portion of the section; from west to east one crosses in the surface layer the fresh cold water of the Labrador Current, the alternately warm and cold water of various currents, and finally the very marked temperature gradient associated with the Gulf Stream. The relatively high salinity values at 1000 meters in the eastern portion of the section are generally attributed to outflow from the Mediterranean Sea. These profiles suggest that some of this high salinity water may have been mixed down from the surface along the eastern boundary.

In October, 1957, the CRAWFORD and the DISCOVERY II started their second IGY cruises. The features of the 40°N. section, made by W. G. Metcalf on the CRAWFORD, resemble somewhat those of the 48°N. section, except that the deep water contrast between western and eastern basins is more marked (Metcalf, 1958). Again at 1000 meters near the eastern end of the section there is unmistakable evidence of Mediterranean outflow. Continuing its cruise, the CRAWFORD made a short run from the southern tip of Portugal west to longitude 18°W., and, turning south, another to latitude 24°N. These sections showed in further detail the spreading of Mediterranean water at a depth of 1200 meters but since they do not cross entire ocean basins, their profiles are not included in the atlas. The CRAWFORD finished this cruise in November by making the section from French West Africa to Guadeloupe along 16°N. The salinity profile displays the relative minimum at a depth of 800 meters which is a primary characteristic of the South Atlantic profiles previously discussed. Furthermore, the coldest bottom water is concentrated on the western side of the Mid-Atlantic Ridge, just as it is eight degrees southward.

When the DISCOVERY II undertook its cruise concurrent with the CRAWFORD'S, Mr. Worthington was again aboard, to assist with the section along 24°N. (Worthington, 1958). In these profiles the mid-depth salinity minimum prominent to the south has very nearly disappeared, and the 18°C. water is clearly apparent at a depth of 300 meters in the western basin. The undulatory



character of the isotherms and isohalines in the deep water near the western boundary may reflect deep currents. It is unfortunate that data of only one station point out the deepest of these troughs.

After Mr. Fuglister succeeded Mr. Worthington, the DISCOVERY II moved on in late November and early December to finish its trip by completing the 32°N. section, which had been begun in effect by Mr. Worthington on the Research Vessel ATLANTIS in 1954-55. Despite the three year time lapse, the profiles almost appear to represent a section made continuously. A curious feature of the section is the mass of relatively cool and fresh water found about 2000 meters below the surface at DISCOVERY II station 3628 (longitude 45°W.). At station 3631, on the Mid-Atlantic Ridge, the bottom water was found to be warmer and slightly more saline than that at the same depth on either side. Although no station was made on this section in the deepest rift in the Ridge, on the basis of data from station 3631, and from station 56 of the Research Vessel CHAIN, which was made in the deepest rift crossed at 36°N., it is inferred that these warmer, more saline conditions pertain also to the deepest rift at 32°N. Another point of interest here is that the concentration on the western side of the Ridge of water colder than 2.2°C., which was observed farther south and shown diminishing at 24°N., has developed only feebly at 32°N. No water as cold is found at all on the 36°N. section, nor does the meridional temperature profile along longitude 50°W. show water colder than 2.2°C. extending farther northward than latitude 35°N.

In accord with the IGY idea of repeating certain earlier surveys in order to study time-scales, as done in the South Atlantic with respect to the METEOR observations, Mr. Metcalf, in February, 1958, led the CRAWFORD on a new survey of the Caribbean Sea (Metcalf, 1959) to duplicate sections made by A. E. Parr on the Research Vessel ATLANTIS in 1933-34 (Parr, 1937). On the way he made a series of stations between Bermuda and the Mona Passage, i.e., the central portion of the 66°W. meridional section. The profiles show a wave structure in the deep water just north of the Antilles, which, combined with the similar structure seen in the 24°N. zonal profiles, suggests finger-like shapes in isothermal surfaces of the region. The temperature profile also displays the remarkable extent and continuity of the 18°C. water in the shallow layers of the western North Atlantic. In examining these 66°W. profiles, one should bear in mind that the portion of the section north of Bermuda was run in September, 1954, and that south of the Antilles, in December, 1954, so that a seasonal thermocline is associated with the northern part, but not with the rest; the deeper water, however, looks much the same on both sides of

Bermuda. The outstanding features of these profiles, of course, are the differences between the waters inside and outside the Caribbean: below sill depth in the Caribbean all water is warmer than 4°C. and has a salinity greater than 34.96‰.

After reaching the Caribbean, the CRAWFORD made four meridional sections during February and March. The temperature profiles show very little variation between sections, including the one of the ATLANTIS already mentioned as the Caribbean extension of the 66°W. section; on the other hand, the salinity profiles show a gradual increase in deep water salinity from east to west.

At this time the IGY plans called for the ATLANTIS to go to the South Atlantic for a transatlantic section at 32°S., but engine trouble and other commitments made it necessary to postpone this cruise for a year.

Consequently, the next cruise was not made until August of 1958, when, again with Mr. Worthington's participation, the DISCOVERY II, Captain James Gray, ran four more sections in the North Atlantic (Worthington, 1959 b). These were confined to the eastern basin, because at that time the German ships GAUSS and ANTON DOHRN were performing in the same latitudes a thorough survey of the western basin. A concentration of cold, saline bottom water on the eastern side of the Mid-Atlantic Ridge is seen clearly on the 58°N. profiles, and also indicated somewhat on those for 53°N. The sections along 43°N. and 46°N. resemble the 40°N. and 48°N. sections. The slightly warmer bottom water at stations 3891 and 3878, which are about 150 miles apart on longitude 20°W., indicates the presence in this area of a deep isolated valley lying on a north-south line.

Mr. Metcalf took the CRAWFORD on its final IGY cruise in September, 1958 (Metcalf, 1960). Its first section, run along latitude 24°S. in October, corresponds to METEOR Profile Number VII, which was made in July and August, 1926. The slight differences in distributions are principally of salinity: the CRAWFORD found the minimum value at depth 700-800 meters to be a little lower than did the METEOR, and the 34.9‰ isohaline in the salinity maximum layer which is centered about depth 2400 meters extends farther eastward in the METEOR'S profile than in the CRAWFORD'S. Both pairs of profiles show Antarctic Bottom Water near the African as well as the American continental slope, because this section is so far south that it crosses the Walvis Ridge.

The other section on this cruise lay along the equator. CRAWFORD station 482, made on that occasion in the Romanche Trench, was the deepest station of the entire IGY survey, since its bottom bottle was 7020 meters below the sea surface.

In January, 1959, Mr. A. R. Miller took the ATLANTIS,



Captain Scott Bray, on the longest cruise of the series (Miller, *in prep.*), principally to make the postponed section along latitude 32°S. (Because Bray subsequently fell ill, Arthur D. Colburn, Jr. assumed the captaincy of the ATLANTIS in Rio de Janeiro; Eugene J. Mysona acted as captain for its return from Capetown to Woods Hole.) While en route, observations were taken for the profiles along 28°N. between the Mid-Atlantic Ridge and the Canary Islands. Comparison of this section with the ones for the eastern basin at 24°N. and 32°N. suggests that these deep water salinities may be too low. On its way south, the ATLANTIS also ran two short sections across the Brazil Current at 12°S. and 20°S.

The section along 32°S. is approximately of the mean latitude of METEOR Profile Number IV, made in November and December, 1925. The ATLANTIS experienced some difficulty on this crossing, for it was prevented by stormy weather from occupying as many stations as planned at the western end of the section, and, shortly after, on station 5810, the deep cast of bottles and thermometers was lost. When the vessel reached longitude 1°E., it discontinued stations, and ran for Capetown to pick up new thermometers, with which it completed the section on its return trip. The isohalines near bottom on the eastern end of the salinity profile have not been drawn strictly according to the curves of salinity vs. depth for the stations in question, because the author feels that the values associated with the bottom bottles at stations 5839, 5840 and 5841 are suspiciously high. If those values

— printed on the profile — were correct, they would represent a unique situation in that the salinity of this bottom, Antarctic water would increase with depth. However, because double samples were taken and analyzed carefully, these anomalous observations cannot be disregarded.

While the ATLANTIS was in the South Atlantic, Mr. Worthington and Mr. Metcalf, aboard the WOODS HOLE OCEANOGRAPHIC INSTITUTION'S recent acquisition, the Research Vessel CHAIN, Captain Wallace S. Olivey, made the section along latitude 36°N. which was compared earlier with the 32°N. section. On many of their stations, especially those in the eastern basin, they made exceptionally close measurements near the bottom. Two further points of interest in the profiles are the water of the upper thousand meters between 50°W. and 60°W., which is cooler and fresher than one might have expected from neighboring sections, and the eastern high salinity tongue, which again reflects outflow from the Mediterranean.

These cruises of the ATLANTIS and CHAIN concluded the survey of the Atlantic Ocean undertaken during the IGY period by the WOODS HOLE OCEANOGRAPHIC INSTITUTION and the NATIONAL INSTITUTE OF OCEANOGRAPHY. The foregoing brief chronology of this grand enterprise has been supplied to set a context for the observations upon which are based the principal contents of the atlas, the profiles of temperature and salinity; it is hoped, moreover, that the very limited running commentary on some of their features may have served as a guide to their detailed study and interpretation.

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# TREATMENT OF DATA

The oceanographic station data tabulated in this atlas consist of temperatures, bottle depths, salinities, station position, time of observation, depth of the ocean at the station, and slide number of the station bathythermogram. The temperatures were measured by means of deep-sea reversing thermometers and are regarded as accurate to  $\pm 0.01^\circ\text{C}$ . The depths of bottles are based on readings of paired protected and unprotected reversing thermometers; (Sverdrup, Johnson, and Fleming, 1942) those members of a depth column marked with asterisks were determined directly in this fashion, the others interpolated. They are considered accurate within  $\pm 5$  meters. With the exception of data obtained by Worthington, all calculated depths have been rounded off to the nearest five meters; no difference in method of calculation is implied, only of personal taste.

The salinities for ATLANTIS stations 5176-5202, given to one hundredth of a part per thousand, were determined by titration, and are accurate to  $\pm 0.02\text{‰}$  (Sverdrup, Johnson, and Fleming, *ibid.*). Most salinities were measured on the Schleicher and Bradshaw salinometer (Schleicher and Bradshaw, 1956). The precision of a single measurement with this instrument is  $\pm 0.005\text{‰}$  in the sense that the range about their average value of a large number of determinations on one sample would be  $\pm 0.005\text{‰}$ . All tests to date on this salinometer have shown that between  $31.0\text{‰}$  and  $37.5\text{‰}$  its accuracy is  $\pm 0.01\text{‰}$ , or better, and between  $34.0\text{‰}$  and  $36.0\text{‰}$ , approximately equal to the precision, or  $\pm 0.005\text{‰}$ . While the accuracy outside the interval  $31.0\text{‰}$ - $37.5\text{‰}$  has not been firmly established, determinations are not believed to be in error by more than  $0.03\text{‰}$  at  $20\text{‰}$  and  $40\text{‰}$ . One should bear in mind that the accuracy of the conductivity method of measuring salinity is dependent upon the uniformity of composition of sea water, so that in regions where influx of river waters leads to low salinities, e.g. at CRAWFORD stations 180-183, measurements made with the salinometer may be subject to unknown errors. Since the sensitivity of the instrument is about  $0.001\text{‰}$ , salinometer determinations are reported in this atlas to the third decimal place in order to take advantage of the fact that a large fraction of the measurements will lie well within the precision limits stated above. The improvement in salinity determination made possible by development of the conductivity bridge salinometer is most vividly seen by comparing the northern ends of the salinity profiles along  $66^\circ\text{W}$ . (titration) and along  $50^\circ\text{W}$ . (salinometer).

The station positions were obtained by celestial navigation and dead reckoning except in those cases for the western North Atlantic where Loran was available. The time given for each station is the date and Greenwich Mean Time at which the messenger was sent down on the first, or shallow, cast.

The depth given for most stations is the sonic depth read during the second, or deep, cast, adjusted for variations in sound speed in the ocean according to Matthew's tables of corrections (Matthews, 1944). The correction for topographic slope was considered negligible, so not made. Frequent checks insured a power supply to the recorder of steady frequency 60 cycles per second. Most given sonic depths are probably not in error by more than 1%. For those stations at which mud indicated that the deepest bottle had rested on the bottom, the thermometric depth of the bottom bottle is given as ocean depth.

All tabulated salinities and temperatures are measured values; none represent interpolations. Whenever an observation appeared to be

seriously in error, because of pretripping or posttripping of bottles, malfunctioning of thermometers, evaporation of water samples, obvious blundering in making readings, or other easily discernible faults, the datum was omitted. If an observation looked suspect, but no reasonable source of error could be found, a question mark was placed beside the value.

The station numbers for the deep profiles of temperature and salinity based on these station data appear across the top of each profile and the latitude or longitude at  $5^\circ$  intervals along the bottom of the profile. The position of each observation is indicated by a black dot, which also serves as a decimal point for the numbers in small type. The depths of isopleths were plotted from curves of temperature and salinity as functions of depth, which were drawn for each station. Where space permitted, the maximum and minimum values for each station are shown, and also the maximum and minimum values along the surface. In all but the very shallow stations the deepest observed value is given. The heavy solid lines in the temperature profiles correspond to integral multiples of five Centigrade degrees, the light solid lines to whole degrees, and the dashed lines to multiples of two-tenths of a degree. The heavy solid isohalines represent multiples of one-half of a part per thousand; the light isohalines, tenths of a part; and the dashed isohalines, multiples of two-hundredths of a part. In the profiles of both parameters, four shades of two colors distinguish ranges of values.

The continuous bottom topography shown on these profiles is based on depth recordings made every fifteen minutes with the echo sounder. These depths, too, are probably accurate to 1%, although in regions of especially rough topography, the error may be greater. However, it is most likely that these profiles are displayed on a scale sufficiently small to render any depth errors of little consequence to the topography depicted; detailed bathymetry, after all, is not the subject of the atlas. For the few periods during which the echo sounder functioned improperly, e.g. between CRAWFORD stations 444 and 445 on latitude  $24^\circ\text{S}$ ., bottom depth is estimated by simple linear interpolation. Such instances are fairly obvious on the profiles. Inserts on the equatorial and  $66^\circ\text{W}$ . profiles show two regions of depth in excess of six thousand meters: the Romanche and Puerto Rico Trenches, respectively.

The accuracy of the bathythermograph temperatures and depths presented in the atlas has not been exactly determined. Generally, when a bathythermogram has been adjusted to the bucket surface temperature, the indicated trace temperatures are considered reliable to  $\pm 0.2^\circ\text{C}$ .

The technique, by which bathythermograph slides were reproduced for publication in the atlas, was devised by J. W. Stimpson of the Institution's reproduction department. (Fuglister, F.C. 1957.)

The vertical scale of the associated surface layer temperature profiles is expanded with respect to the horizontal scale by a factor of five thousand. In this case the bathythermograph traces themselves provided curves from which to read depths of isotherms. The solid line isopleths represent multiples of five Centigrade degrees; the dashed lines, multiples of one degree. The slide numbers are ranged along the tops of the profiles; five degree intervals of longitude are indicated along the bottom. On account of the complicated structure of the isopleths, no attempt was made to differentiate temperature ranges with color gradation.

TEMPERATURE  $^\circ\text{C}$

>20	4 - 5
15 - 20	3 - 4
10 - 15	2 - 3
5 - 10	<2

SALINITY  $\text{‰}$

>36.5	34.8 - 35.0
36.0 - 36.5	34.6 - 34.8
35.5 - 36.0	34.4 - 34.6
35.0 - 35.5	<34.4

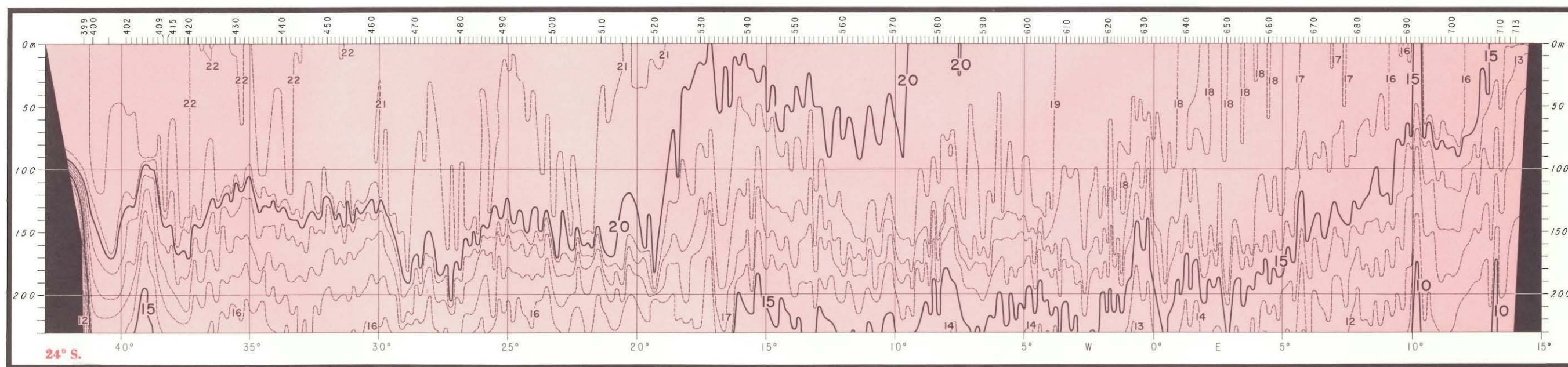
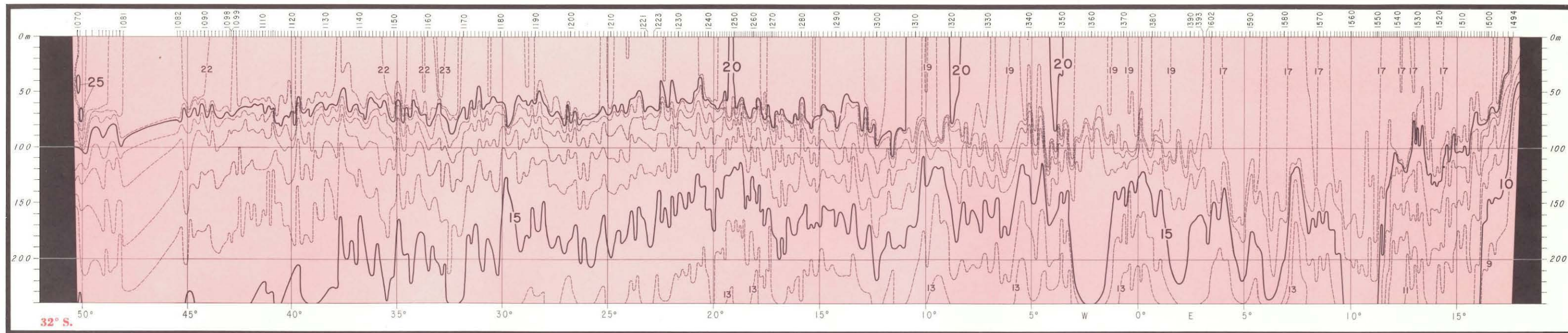


TRANSATLANTIC PROFILES  
OF  
SURFACE LAYER  
TEMPERATURES









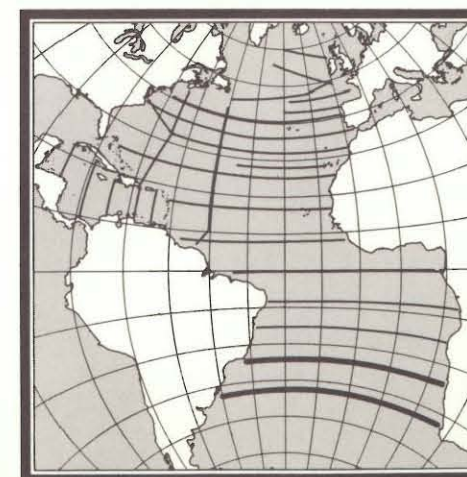
**32° S.**  
**24° S.**

TEMPERATURE °C

**32° S.** April 26 - May 16, 1959, Bathythermograms 1070-1393.  
May 27 - June 3, 1959, Bathythermograms 1494-1602.  
ATLANTIS Cruise 247.  
Brazil to Union of South Africa.  
Mean latitude, 32° 30' S.

**24° S.** October 1-26, 1958, Bathythermograms 399-713.  
CRAWFORD Cruise 22.  
Brazil to South-West Africa  
Mean latitude, 24° 15' S.

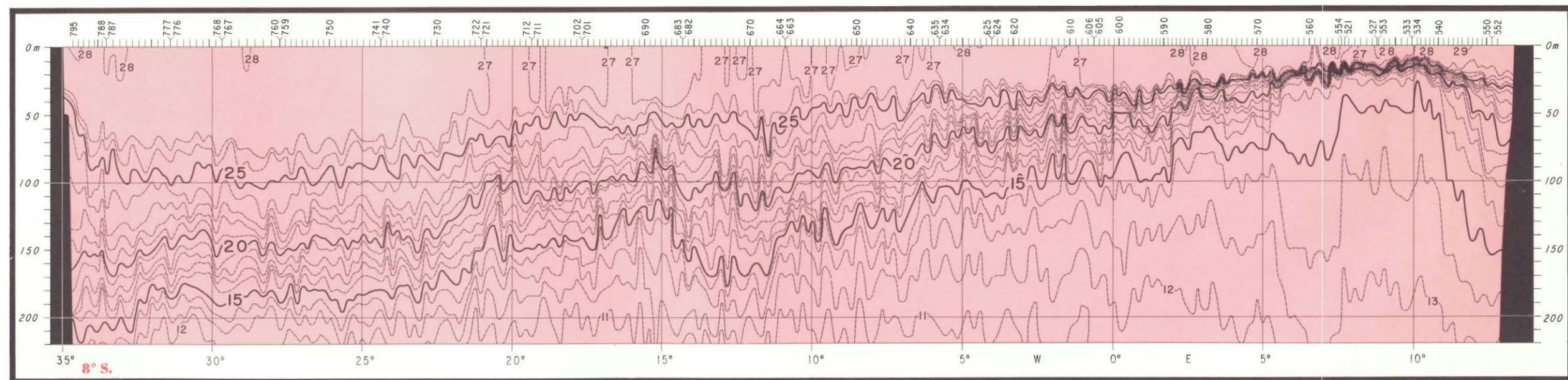
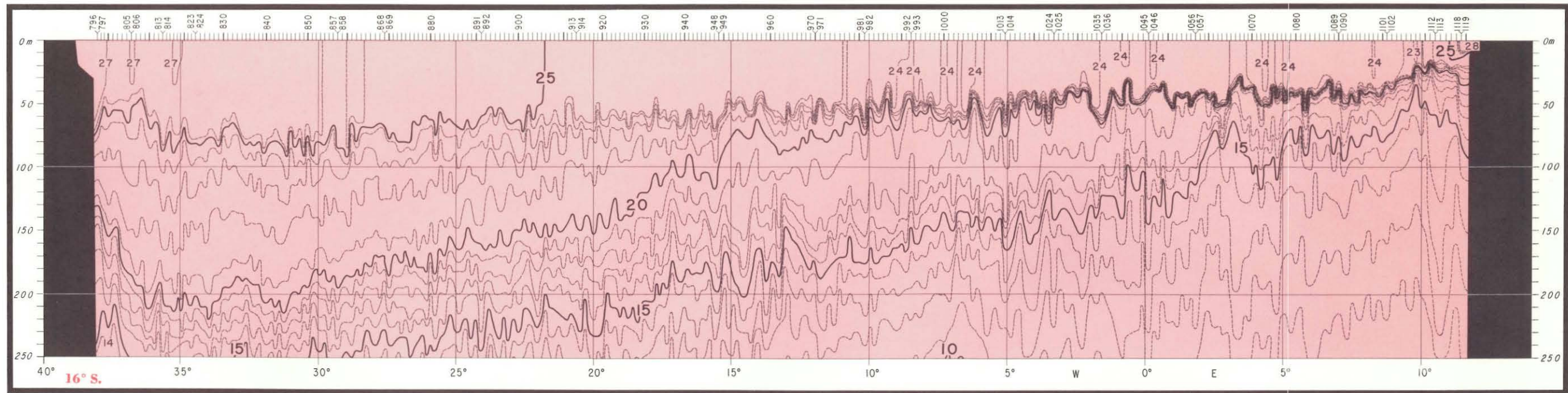
0 500 Kilometers











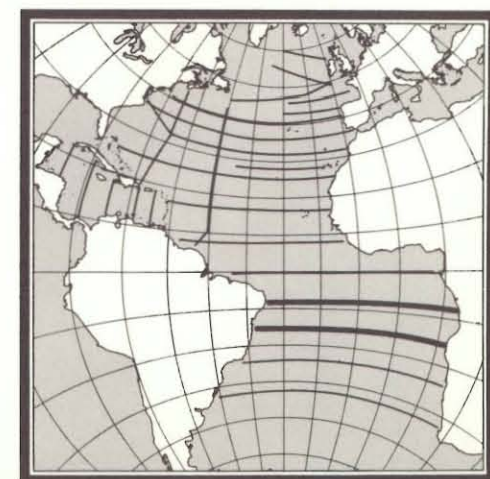
**16° S.**  
**8° S.**

TEMPERATURE °C

**16° S.** April 1-22, 1957, Bathythermograms 796-1120.  
CRAWFORD Cruise 10.  
Brazil to Angola.  
Mean latitude, 15° 45' S.

**8° S.** March 2-4, 1957, Bathythermograms 521-552.  
March 7-22, 1957, Bathythermograms 553-795.  
CRAWFORD Cruise 10.  
Brazil to Angola.  
Mean latitude, 8° 15' S.

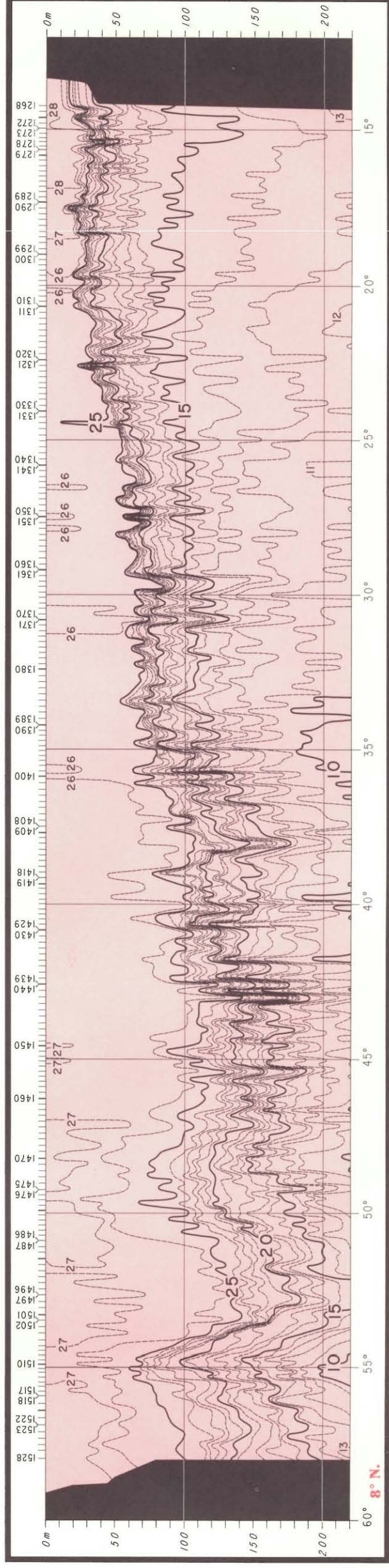
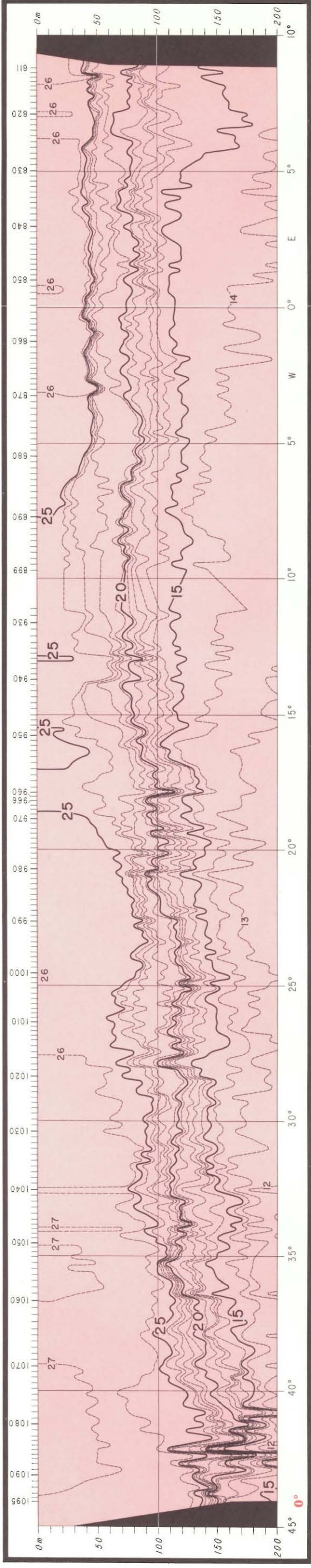
0 500 Kilometers









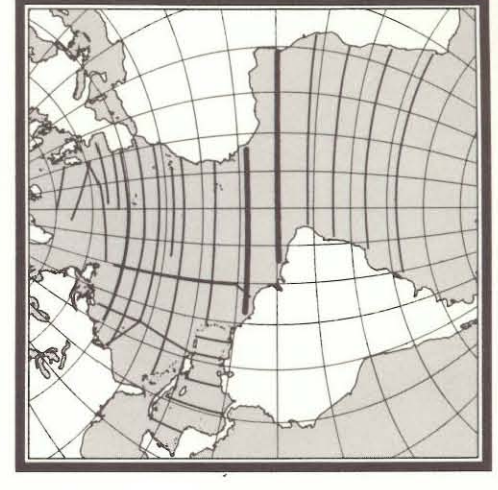


0°  
8° N.

8° N. May 6-21, 1957, Bathothermograms 1268-1528.  
CRAWFORD Cruise 10.  
Brazil to Sierra Leona.  
Mean latitude, 8° 15' N.

0°  
November 7-12, 1958, Bathothermograms 811-899.  
November 19-30, 1958, Bathothermograms 928-1095.  
CRAWFORD Cruise 22.  
Brazil to French Equatorial Africa.  
Mean latitude, 0° 15' S.

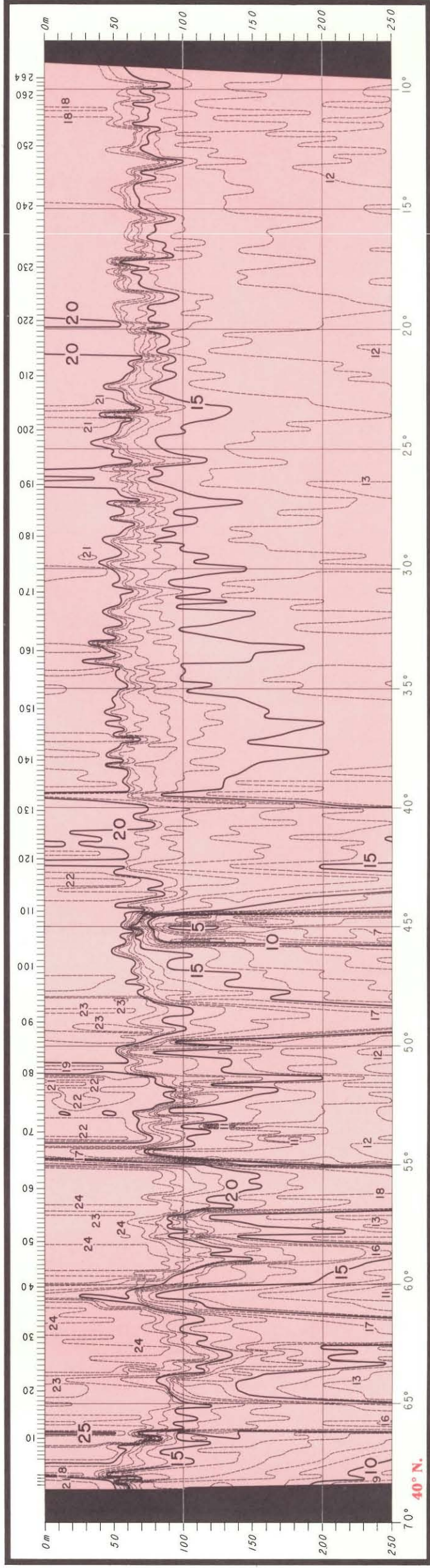
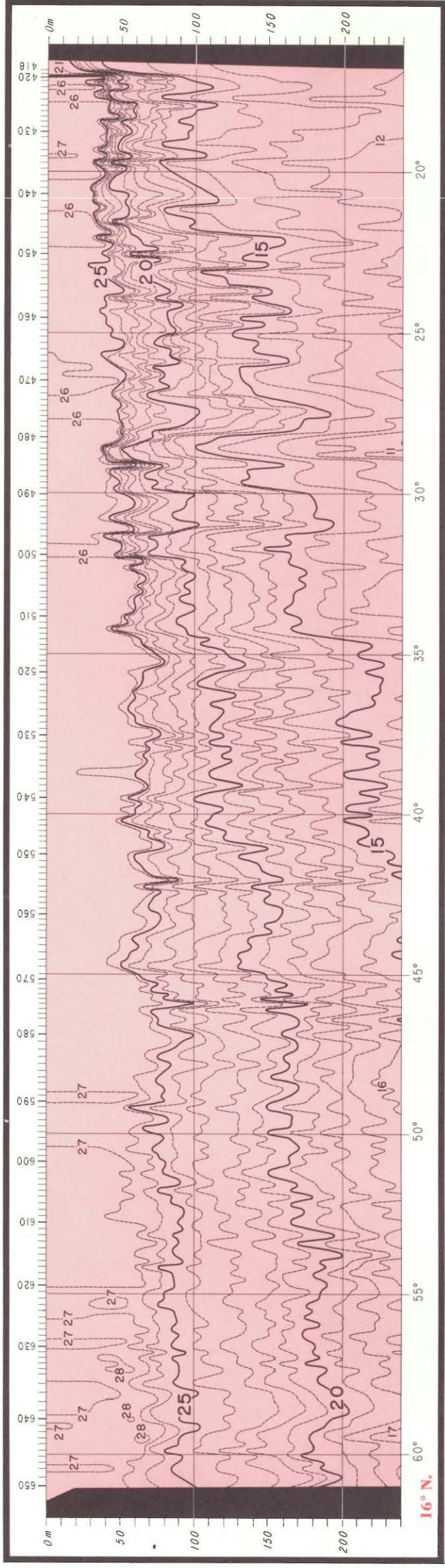
TEMPERATURE °C





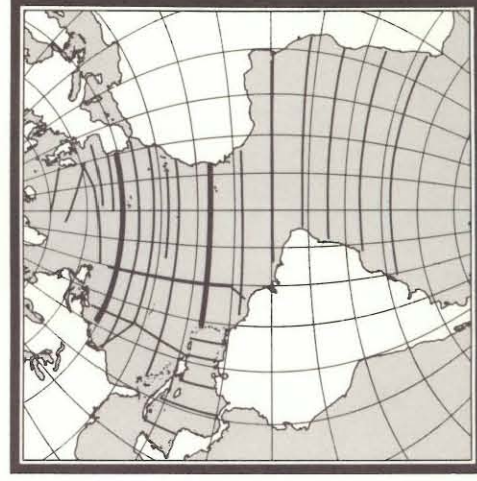






**16° N.**  
**40° N.**

TEMPERATURE °C



October 2-22, 1957, Bathythermograms 1-264.  
CRAWFORD Cruise 16.  
Georges Bank to Portugal.  
Mean latitude, 40° 15' N.

November 13-29, 1957, Bathythermograms 418-650.  
CRAWFORD Cruise 16.  
Guadeloupe to French West Africa.  
Mean latitude, 16° 15' N.

0 500 Kilometers







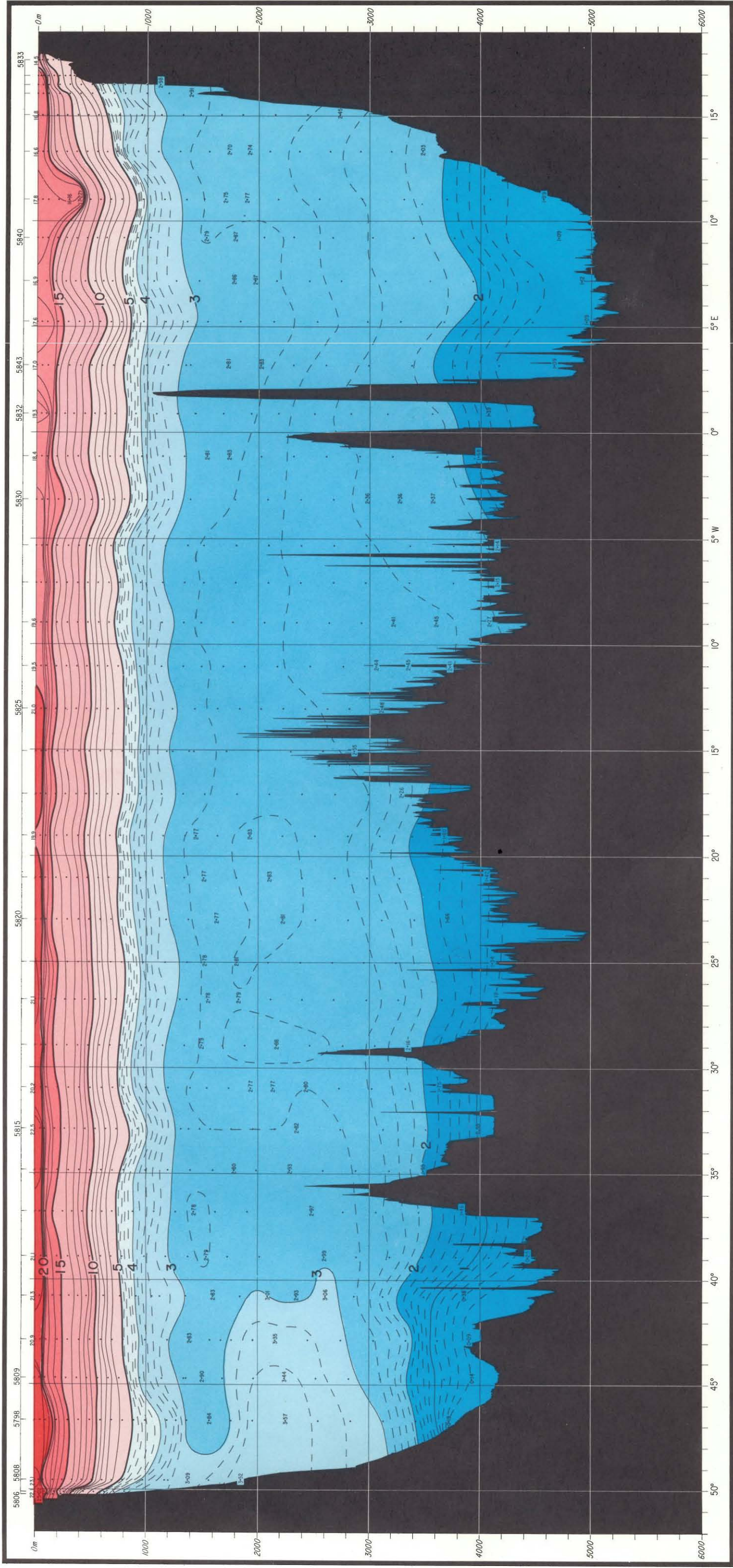
# TEMPERATURE PROFILES









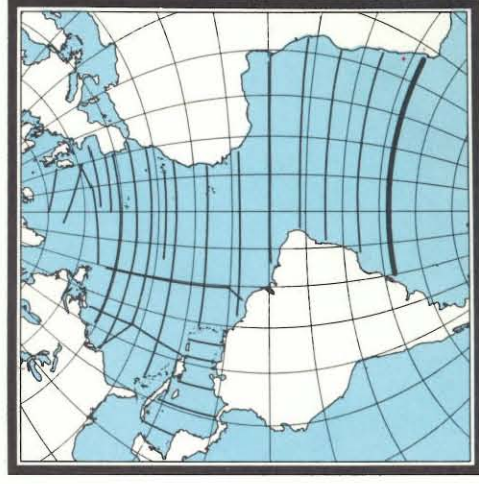


32° S.

TEMPERATURE °C

0 500 Kilometers

April 11, 1959, ATLANTIS station 5798.  
 April 26 - June 3, 1959, ATLANTIS stations 5806-5843.  
 Brazil to Union of South Africa.  
 Mean latitude, 32° 30' S.







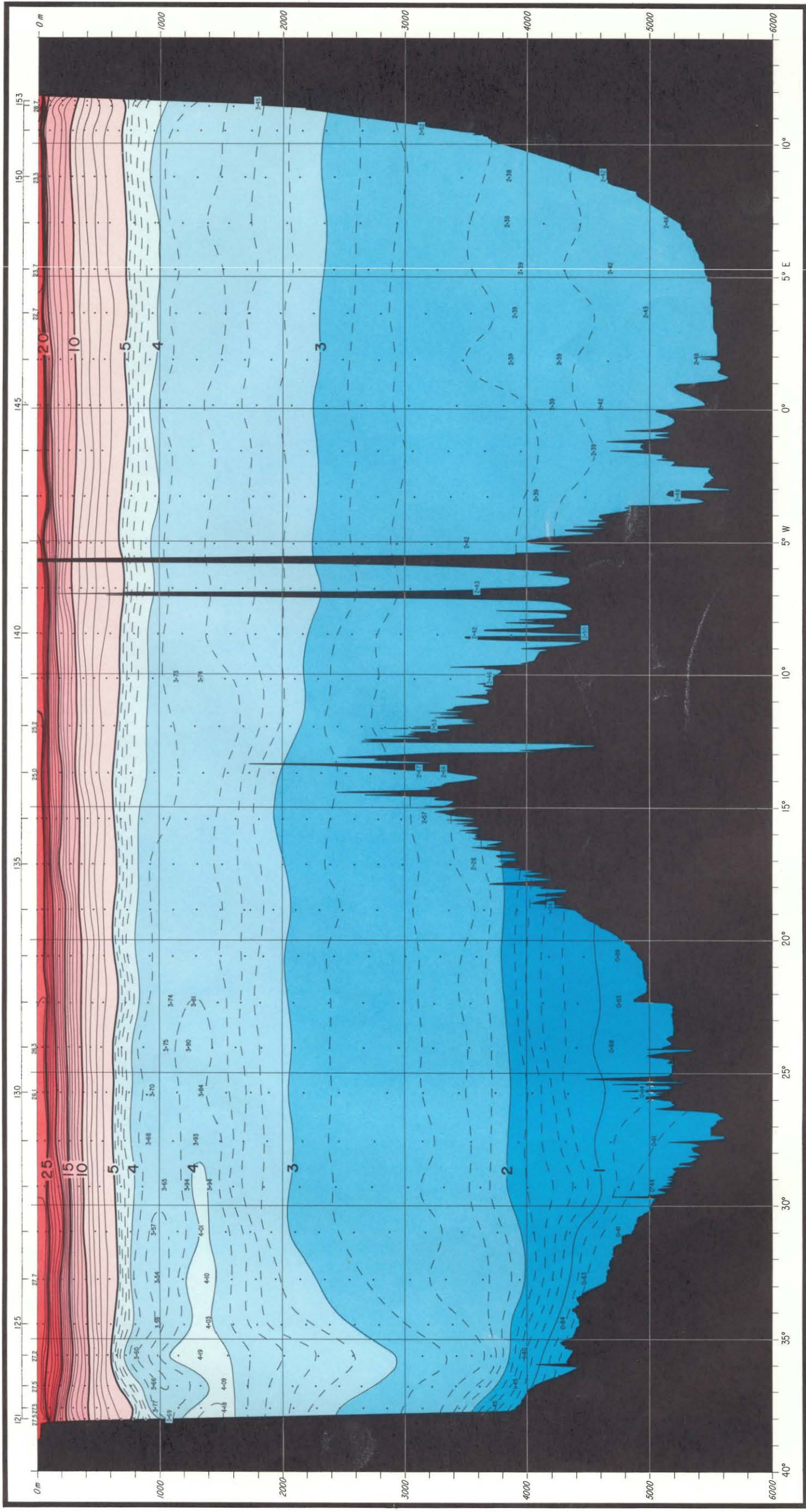










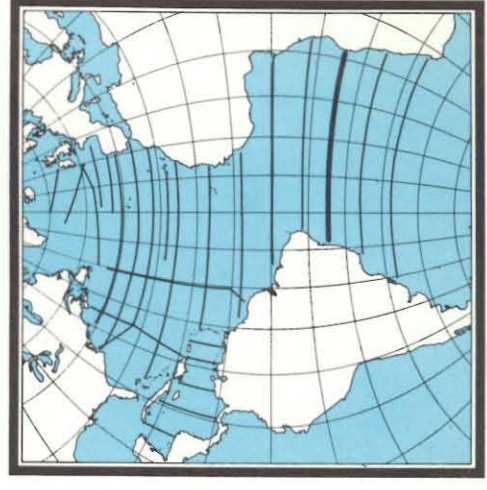


16°S.

TEMPERATURE °C

0 500 Kilometers

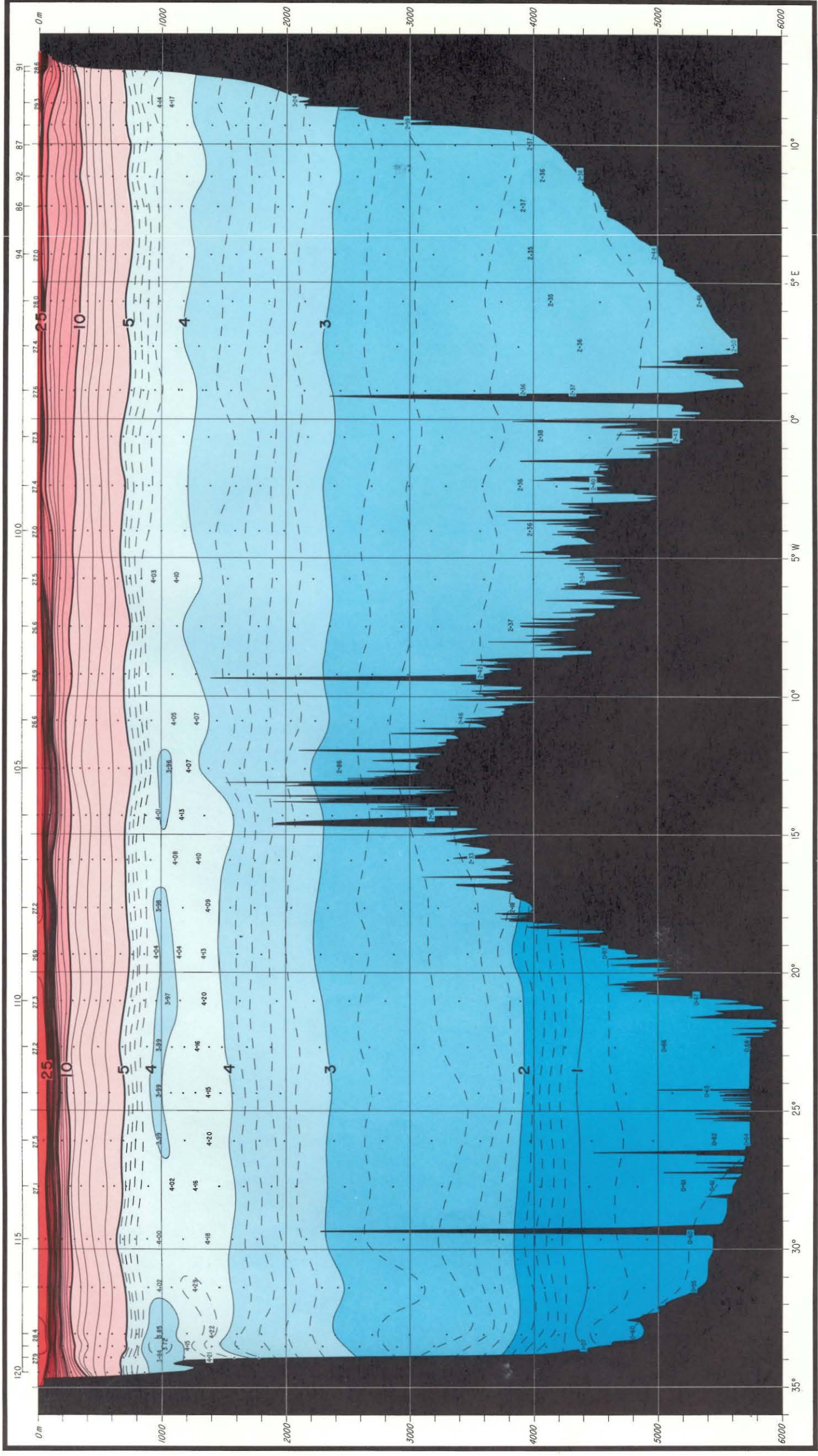
April 1-22, 1957, CRAWFORD stations 121-153.  
Brazil to Angola.  
Mean latitude, 15° 45' S.









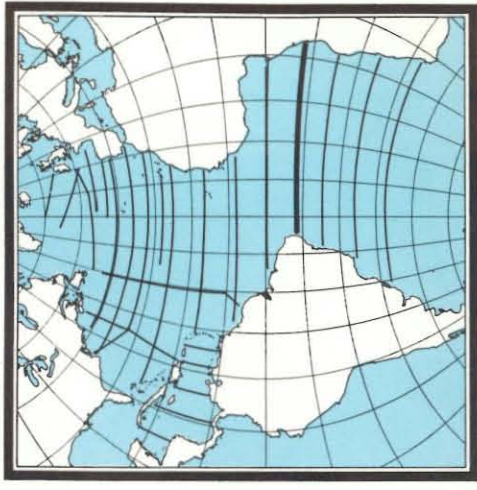


8°S.

TEMPERATURE °C

0 500 Kilometers

March 1-22, 1957, CRAWFORD stations 86-92, 94-120.  
Brazil to Angola.  
Mean latitude, 8° 15' S.







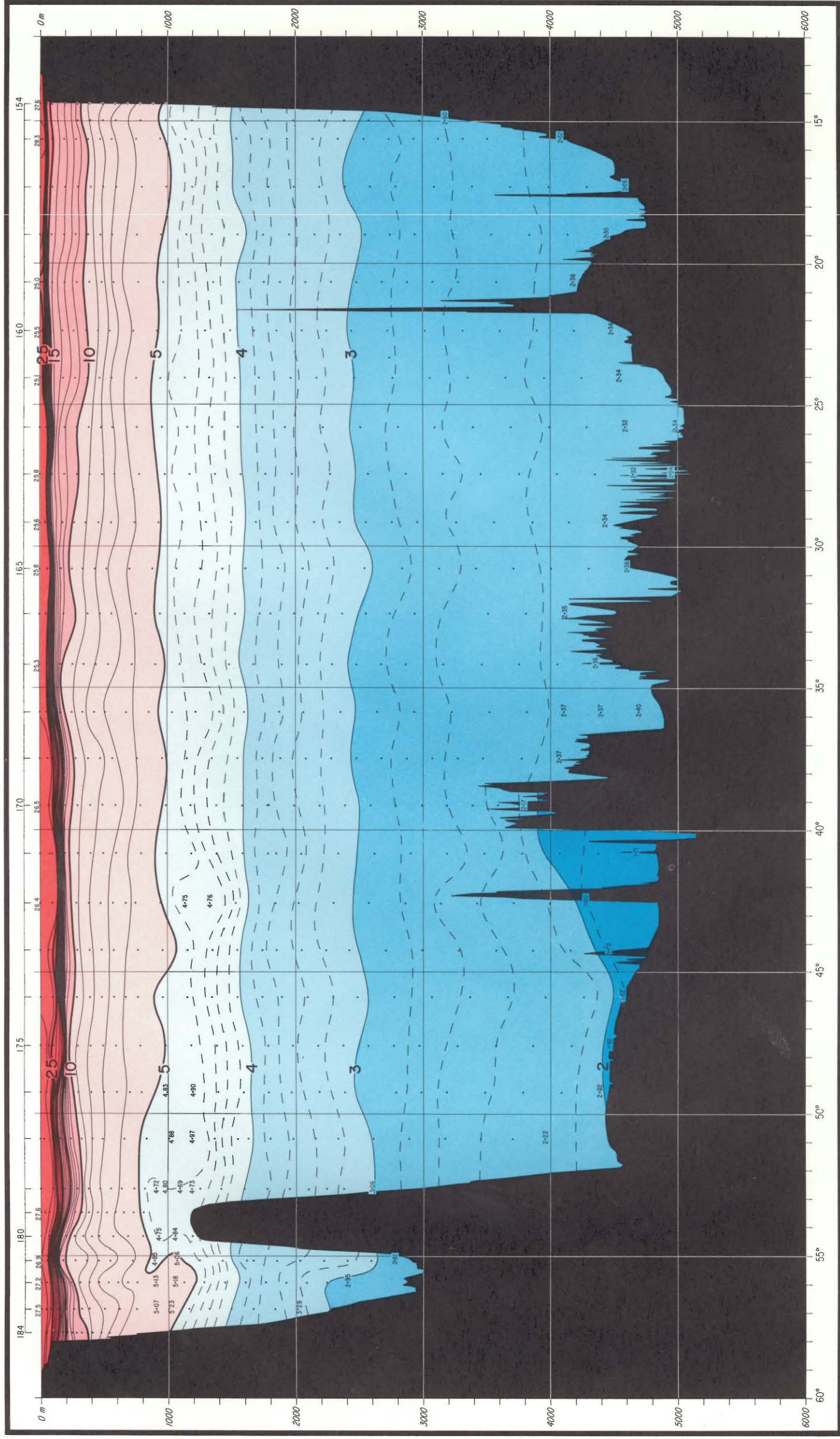










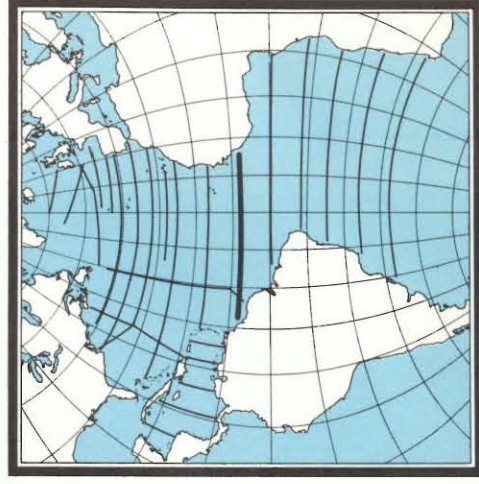


8°N.

TEMPERATURE °C

0 500 Kilometers

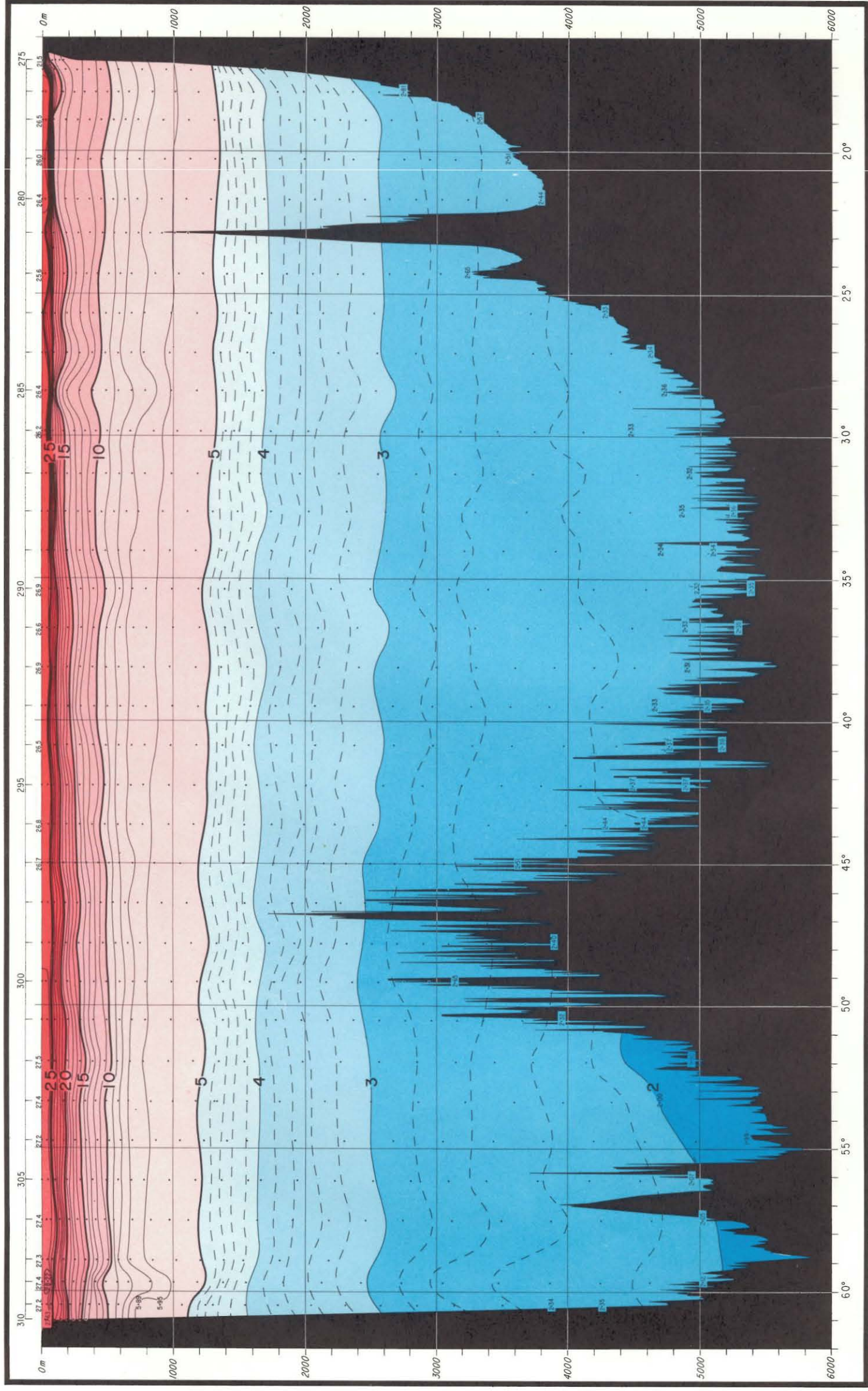
May 6-21, 1957, CRAWFORD stations 154-184.  
Brazil to Sierra Leona.  
Mean latitude, 8° 15' N.









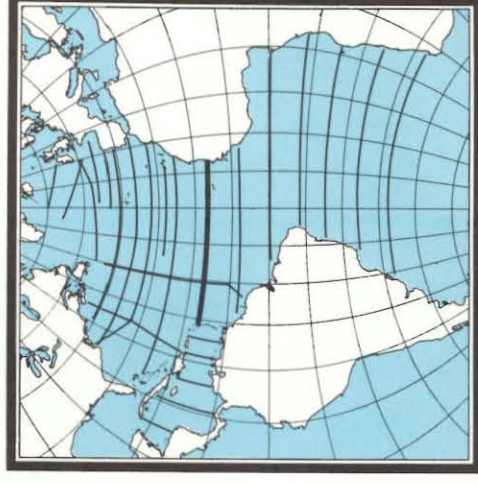


16° N.

TEMPERATURE °C

0 500 Kilometers

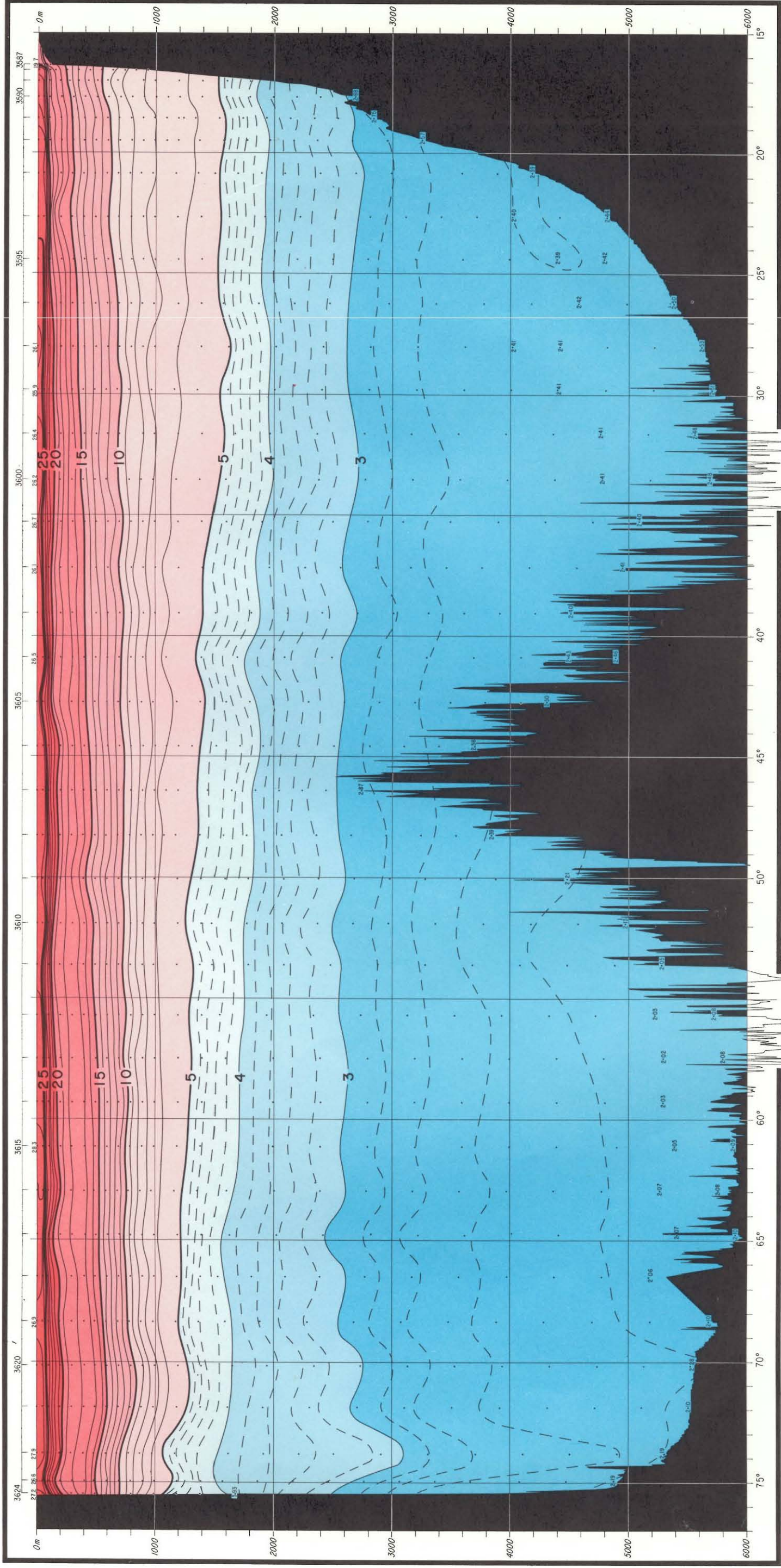
November 13-29, 1957, CRAWFORD stations 275-310.  
Guadeloupe to French West Africa.  
Mean latitude, 16° 15' N.









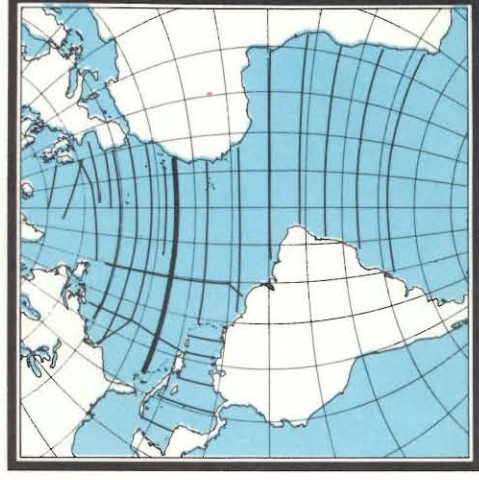


24° N.

TEMPERATURE °C

0 500 Kilometers

October 6-28, 1957, DISCOVERY II stations 3587-3624.  
Bahamas to Spanish Sahara.  
Mean latitude, 24° 30' N.



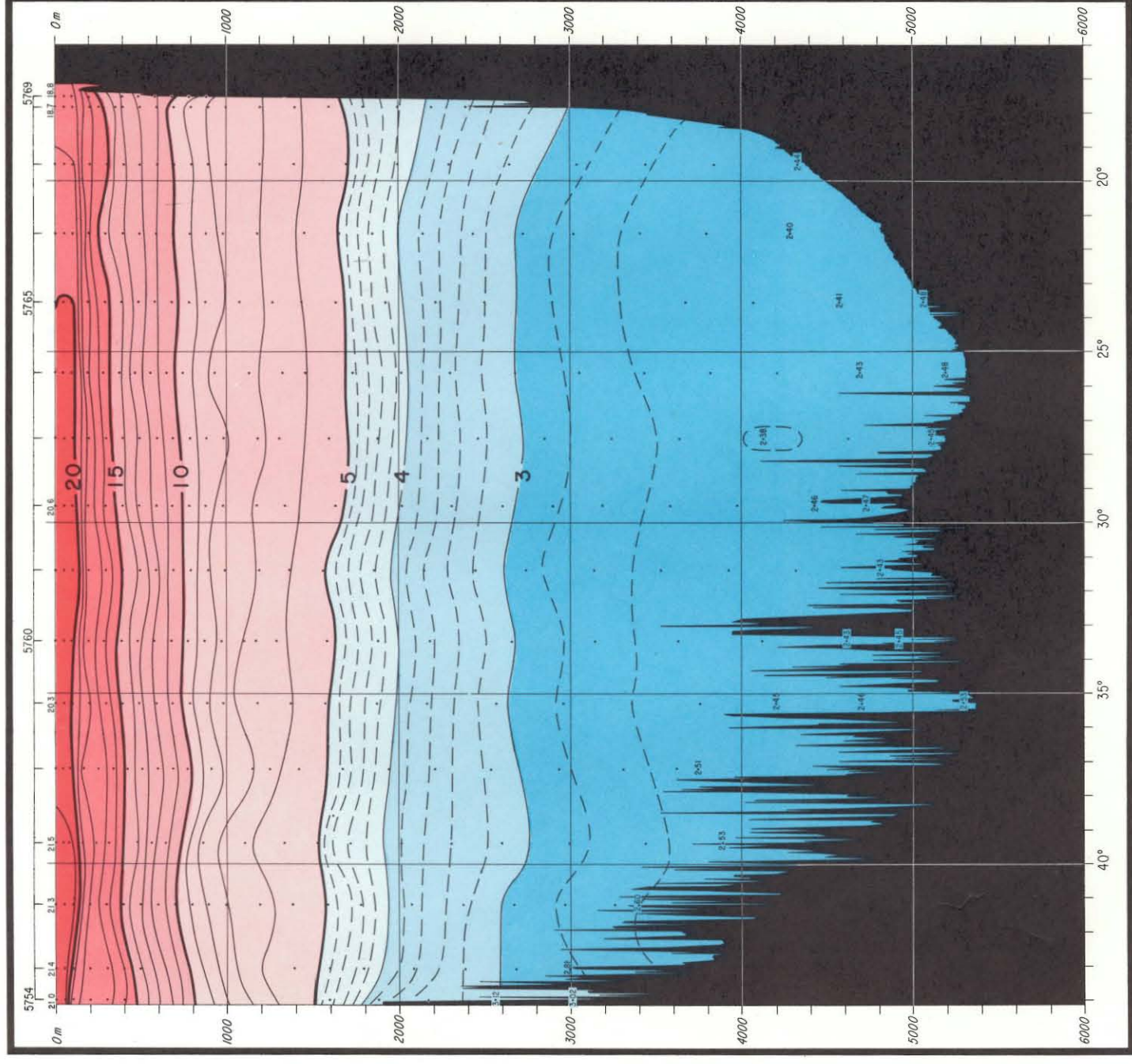






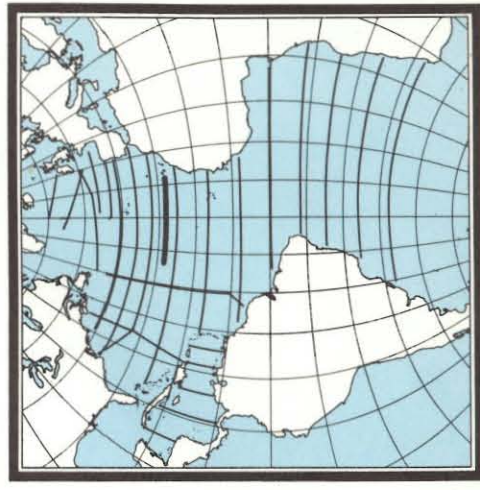
28° N.

TEMPERATURE • C



February 12-22, 1959, ATLANTIS stations 5754-5769.  
Mid-Atlantic Ridge to Canary Islands.  
Mean latitude, 28° 15' N.

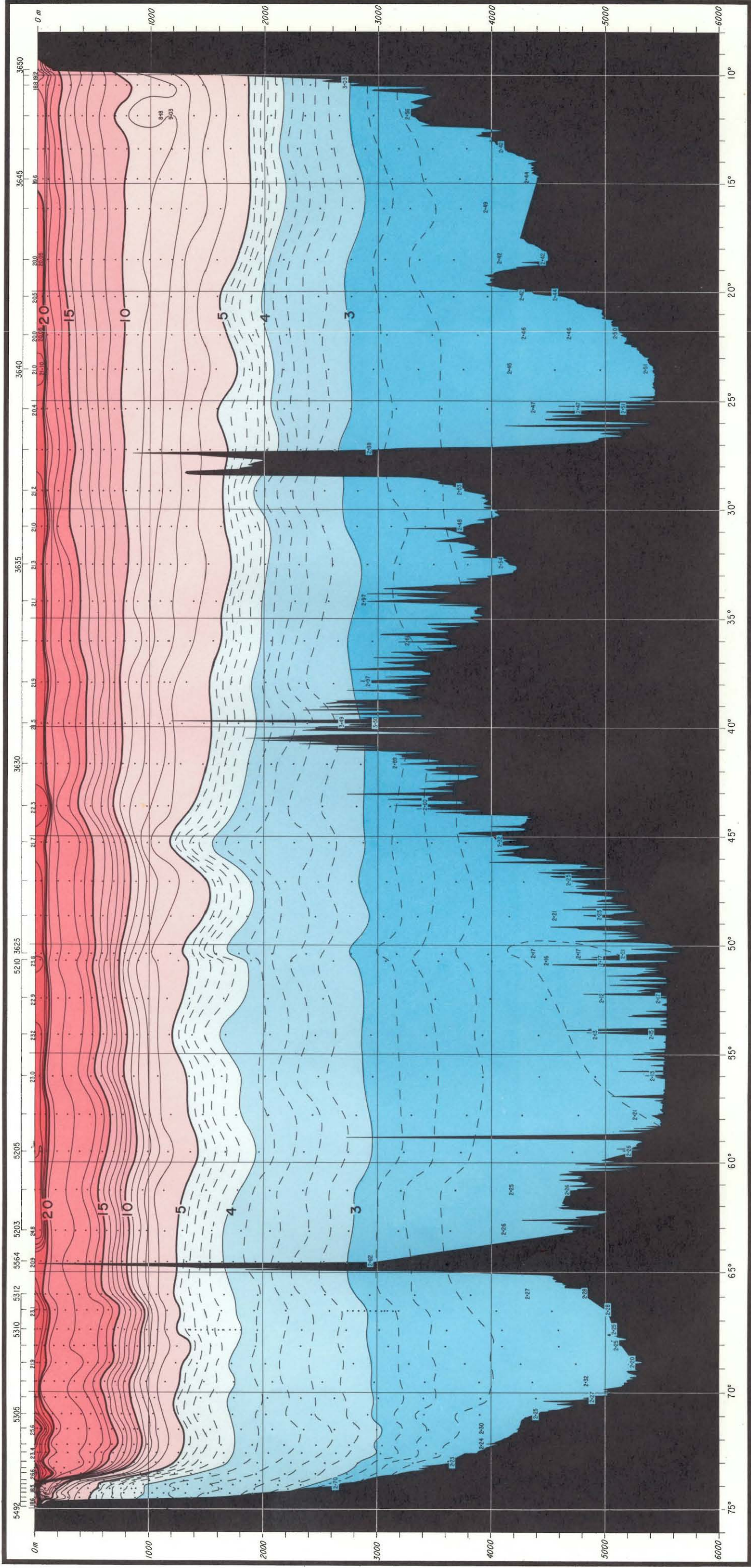
0 500 Kilometers









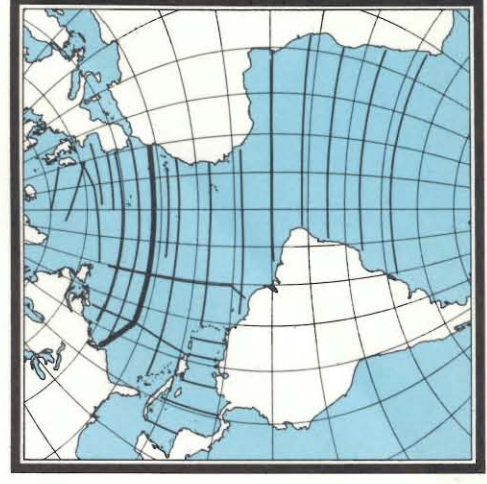


32° N.

TEMPERATURE °C

0 500 Kilometers

November 11-16, 1954, ATLANTIS stations 5203-5210.  
 June 9-14, 1955, ATLANTIS stations 5292-5312.  
 April 22, 1957, ATLANTIS station 5564.  
 November 24 - December 7, 1957, DISCOVERY II stations 3625-3650.  
 Chesapeake Bay to Bermuda to Morocco.  
 Mean latitude, Bermuda to Morocco 32° 15' N.







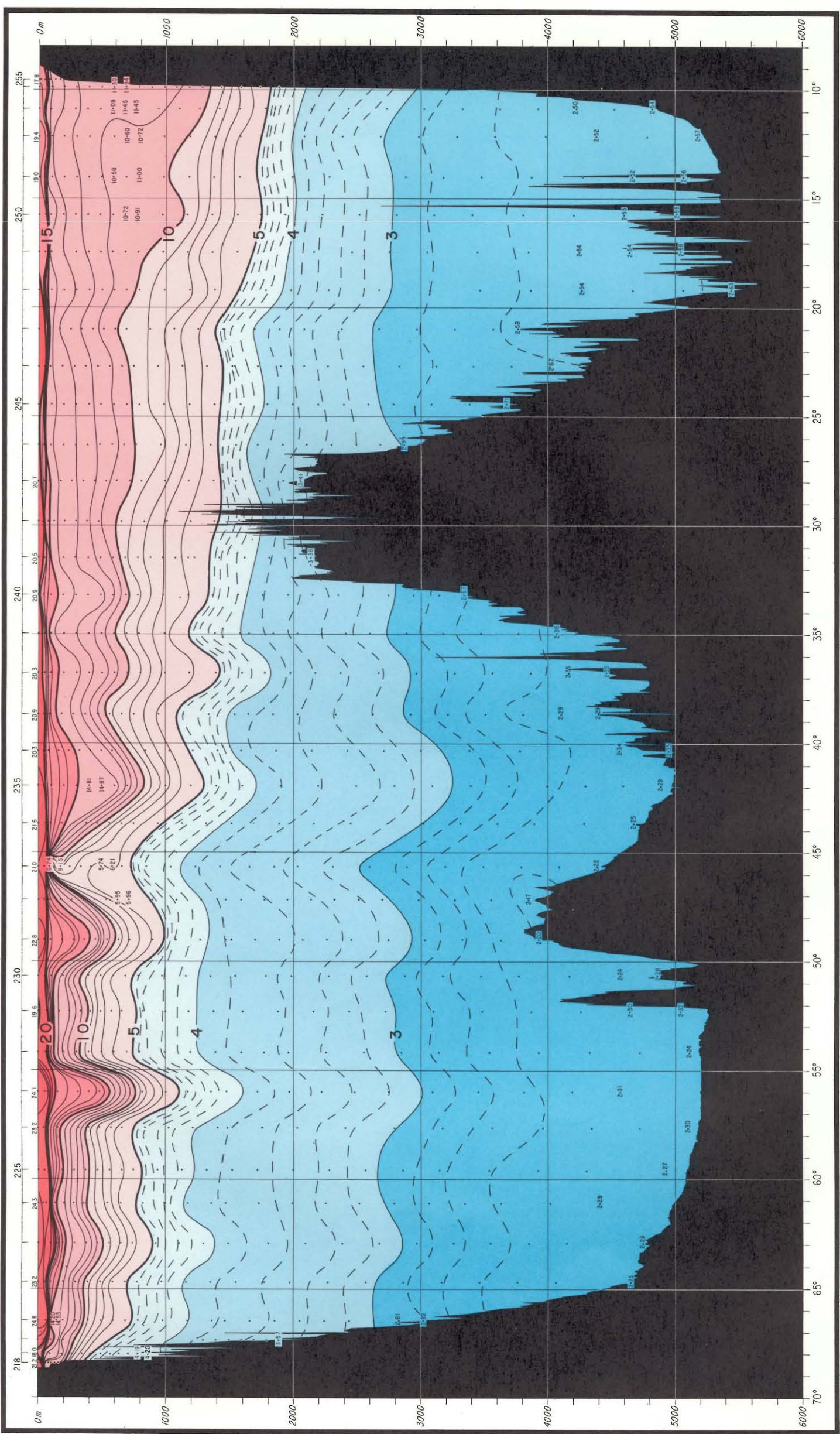










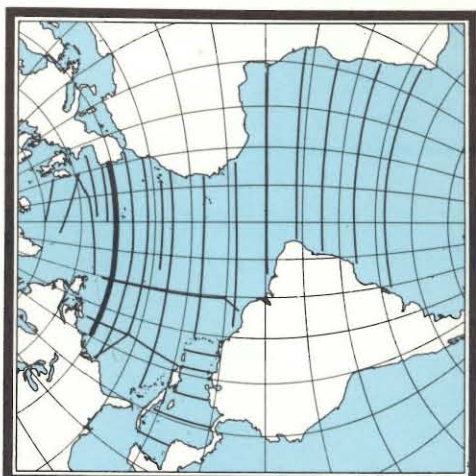


40° N.

TEMPERATURE °C

0 500 Kilometers

October 2-22, 1957, CRAWFORD stations 218-255.  
Georges Bank to Portugal.  
Mean latitude, 40° 15' N.



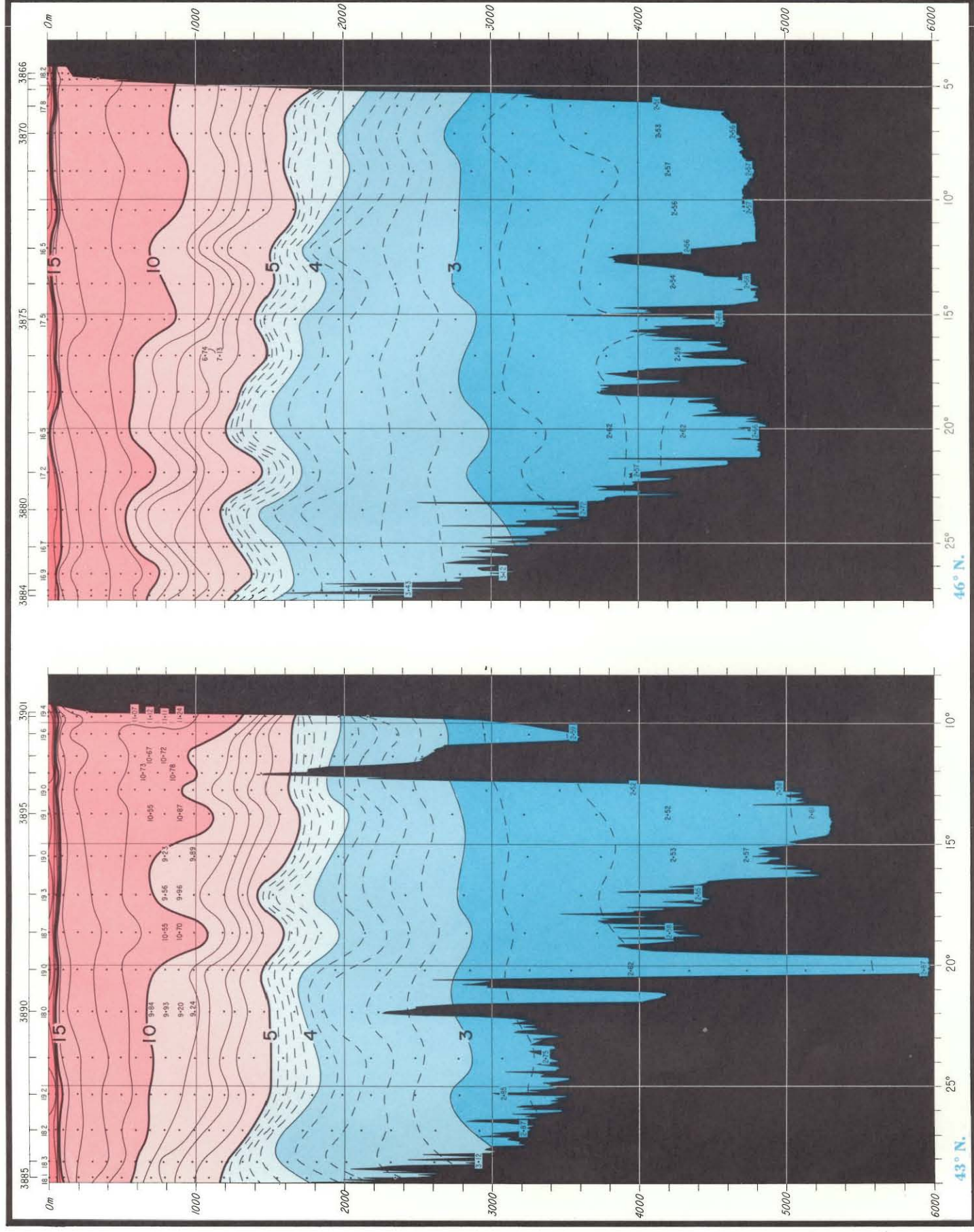






43° N.  
46° N.

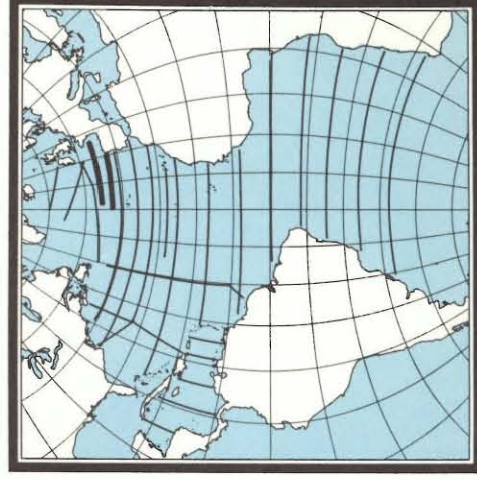
TEMPERATURE °C



43° N. September 11-16, 1958, DISCOVERY II stations 3885-3901.  
Mid-Atlantic Ridge to Cape Finisterre.  
Mean latitude, 43° 05' N.

46° N. September 4-10, 1958, DISCOVERY II stations 3866-3884.  
Mid-Atlantic Ridge to Bay of Biscay.  
Mean latitude, 46° 20' N.

0 500 Kilometers

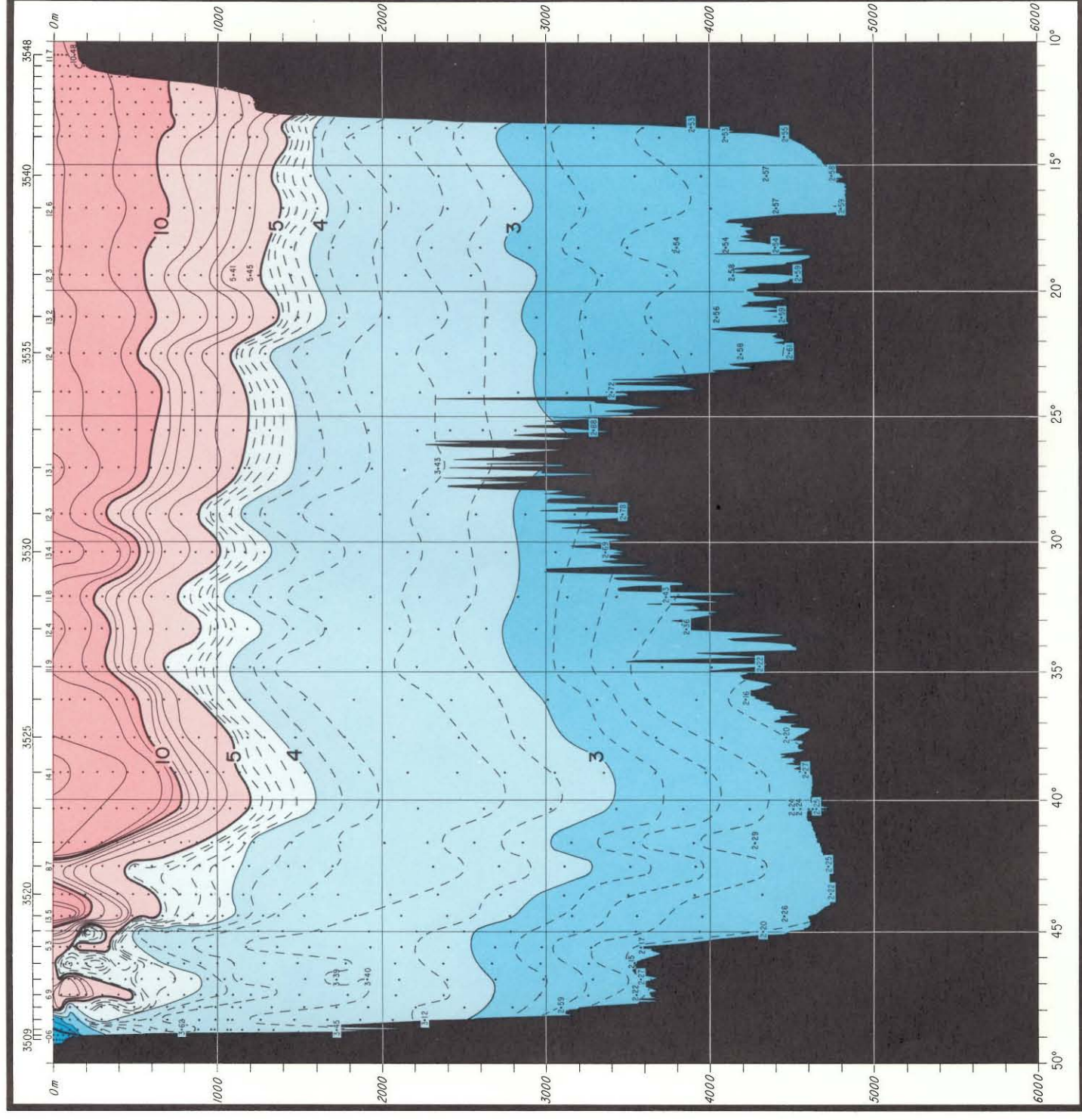






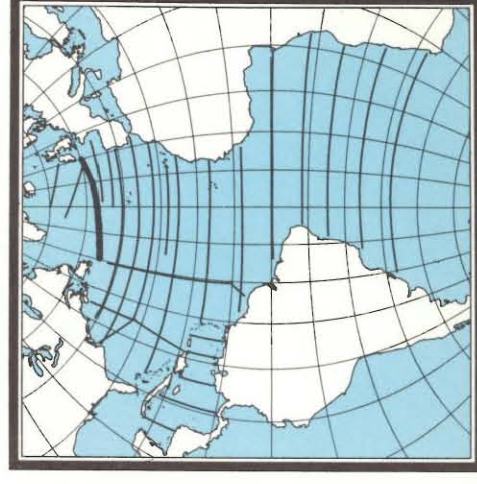
# 48° N.

TEMPERATURE °C



April 16-27, 1957, Discovery II stations 3509-3548.  
Grand Banks to offing of English Channel.  
From 44° 39' N, 49° 08' W. to 49° 40' N, 10° 34' W.

0 500 Kilometers

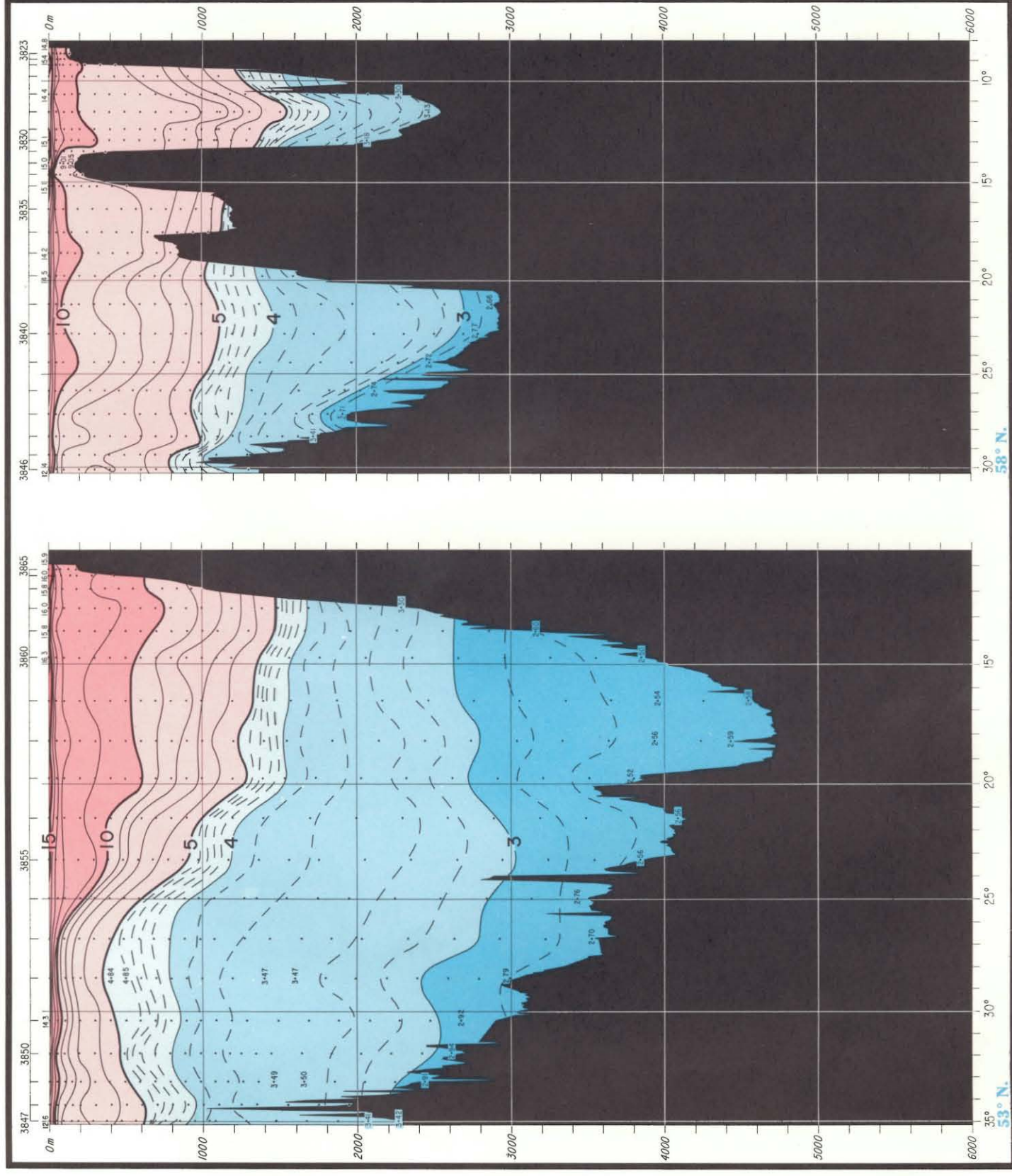






# 53° N. 58° N.

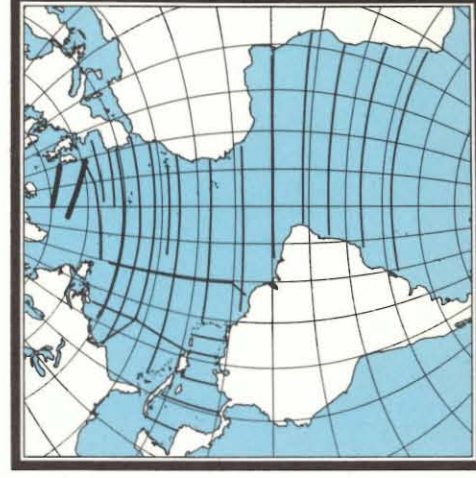
TEMPERATURE °C



**53° N.** August 24-30, 1958, DISCOVERY II stations 3847-3865.  
Mid-Atlantic Ridge to offing of English Channel.  
From 55° 57' N., 34° 59' W. to 49° 19' N., 11° 08' W.

**58° N.** August 18-22, 1958, DISCOVERY II stations 3823-3846.  
Mid-Atlantic Ridge to North Ireland.  
From 60° 01' N., 30° 05' W. to 56° 00' N., 8° 40' W.

0 500 Kilometers

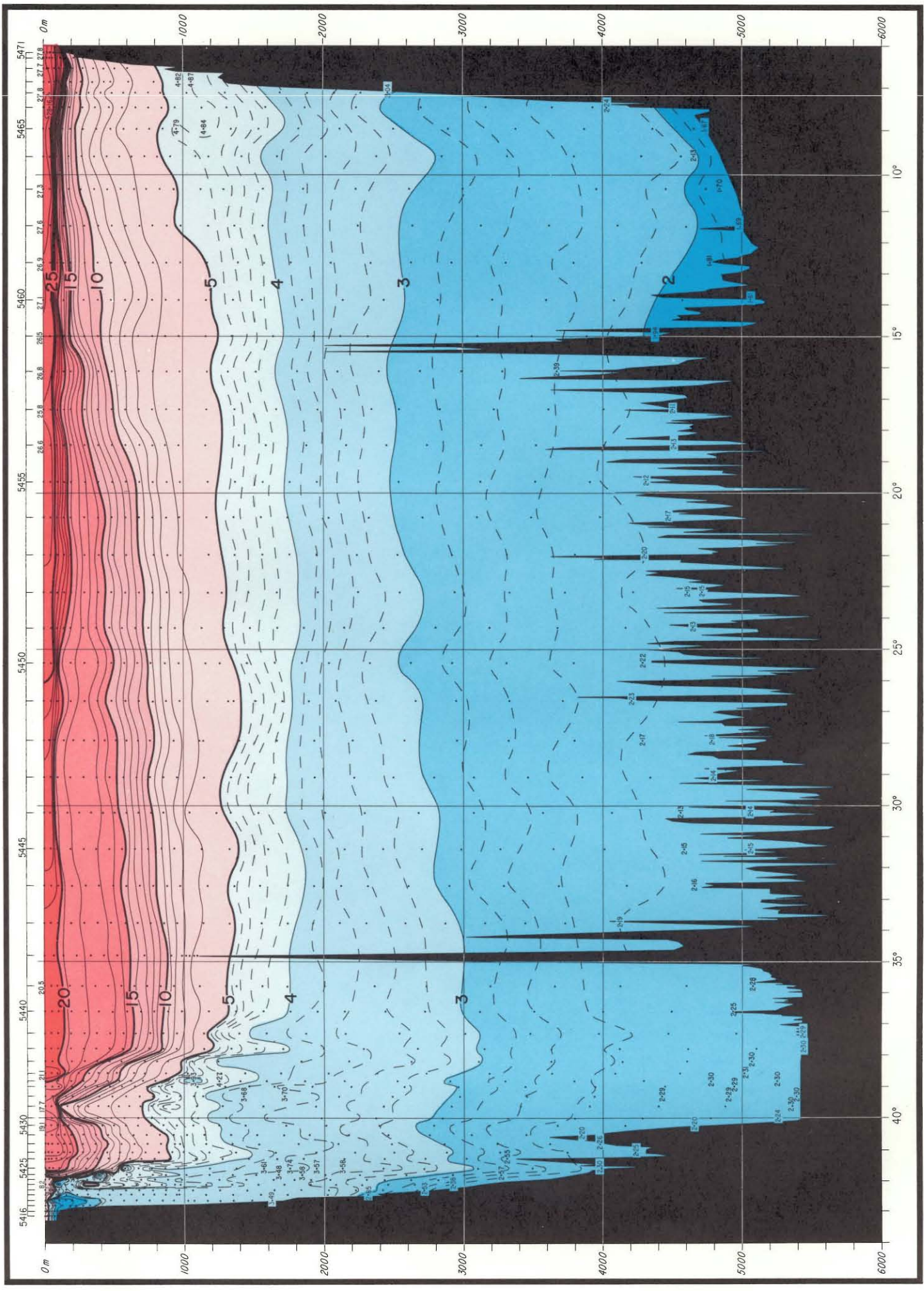




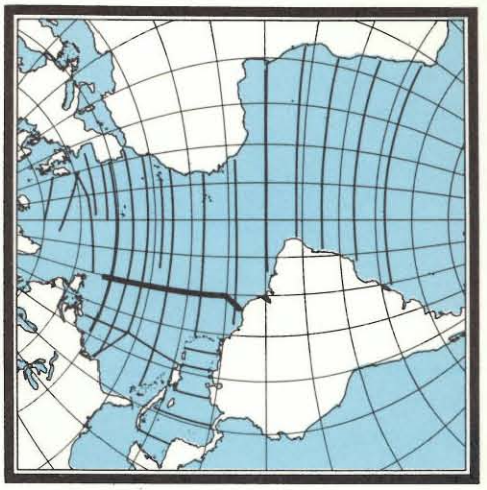


50° W.

TEMPERATURE • C



November 12 - December 2, 1956, ATLANTIS stations 5416-5471.  
Grand Banks to French Guiana.  
Mean longitude, 50° 30' W.

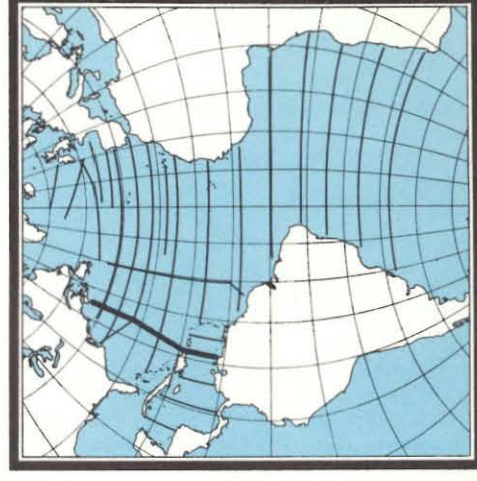






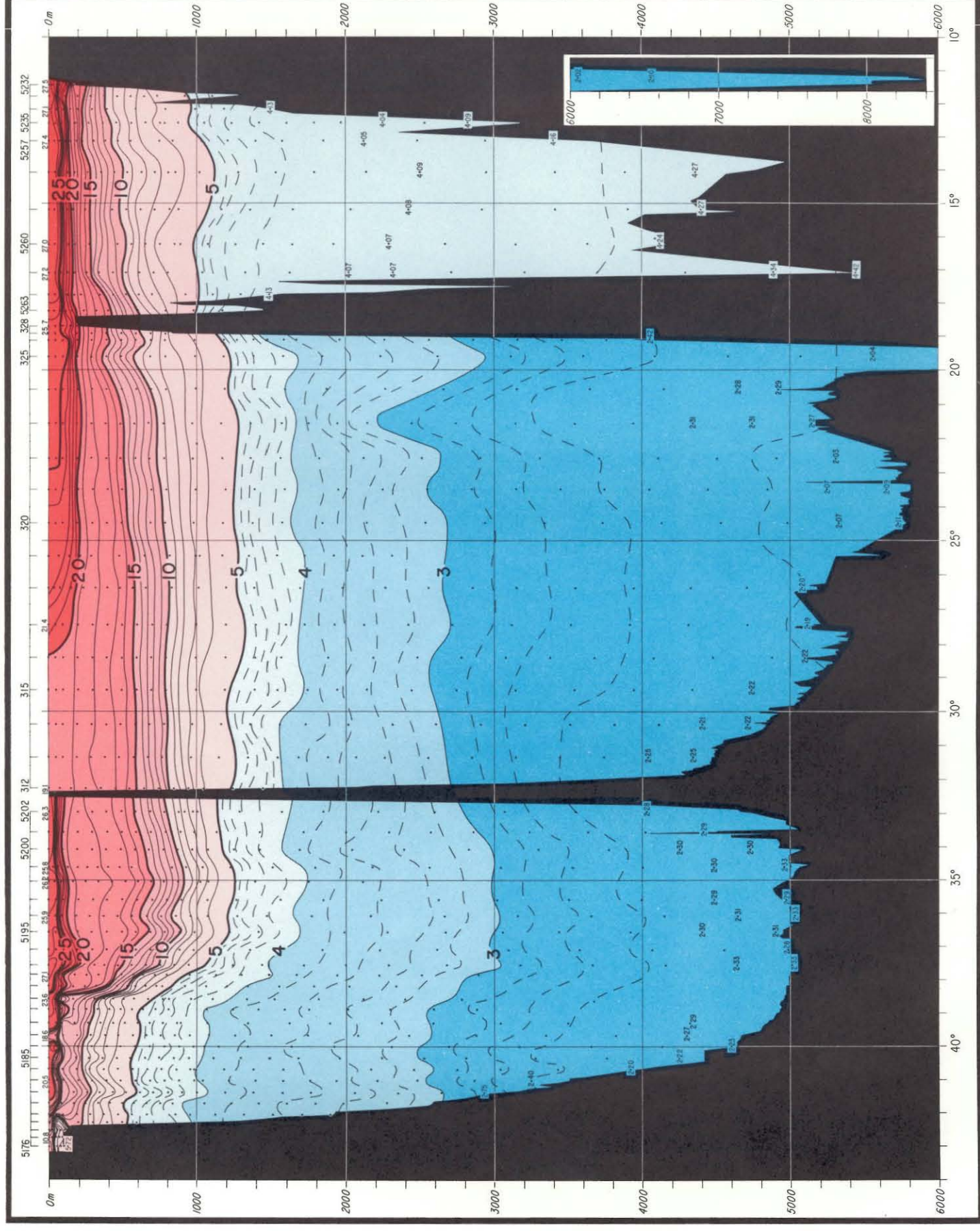
66° W.

TEMPERATURE • C



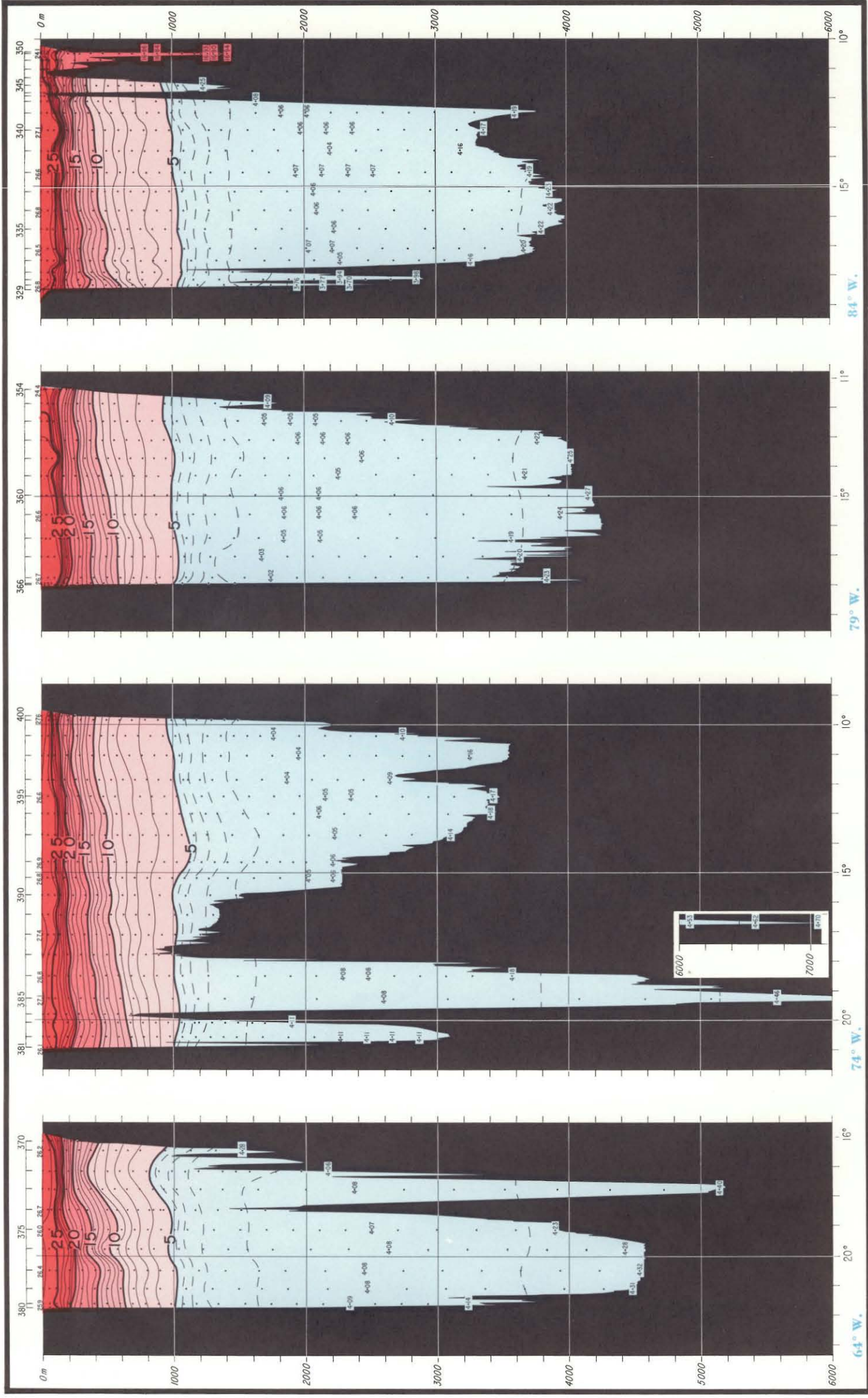
September 19-26, 1954, ATLANTIS stations 5176-5202.  
December 6-7, 1954, ATLANTIS stations 5232-5235.  
December 11-13, 1954, ATLANTIS stations 5257-5263.  
February 11-17, 1958, CRAWFORD stations 312-328.  
Nova Scotia to Bermuda to Mona Passage to Venezuela.

0 500 Kilometers









# Caribbean Sea

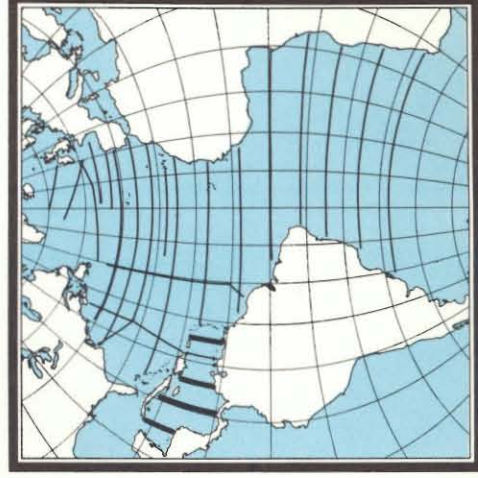
TEMPERATURE • C

**64° W.** February 21-25, 1958, CRAWFORD stations 329-350.  
Virgin Islands to Venezuela.  
Mean longitude, 64° 30' W.

**74° W.** February 27 - March 4, 1958, CRAWFORD stations 354-369.  
Haiti to Columbia.  
Mean longitude, 73° 45' W.

**79° W.** March 16-20, 1958, CRAWFORD stations 381-400.  
Cuba to Panama.  
Mean longitude, 79° 15' W.

**84° W.** March 13-15, 1958, CRAWFORD stations 370-380.  
Cuba to Honduras.  
Mean longitude, 84° 30' W.





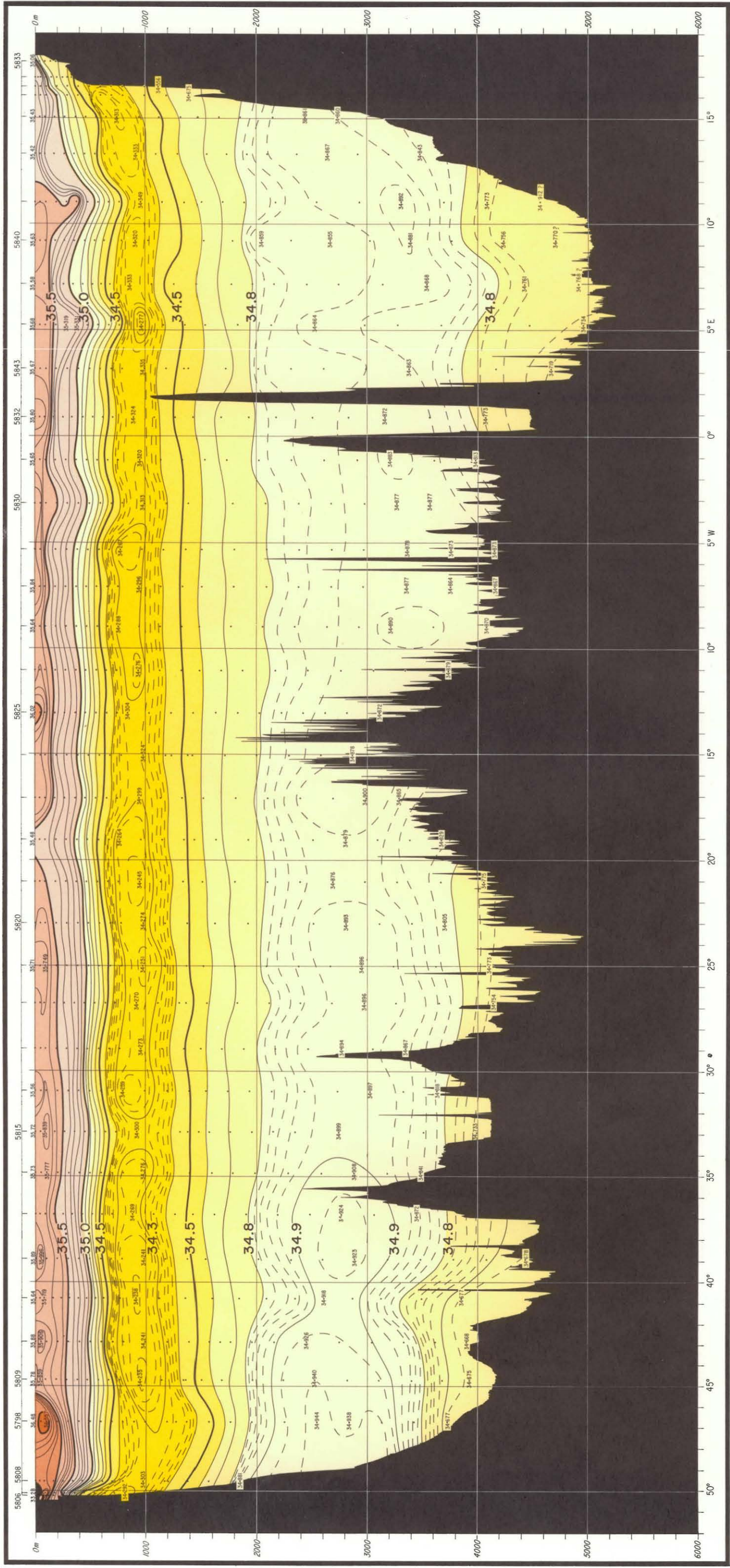


# SALINITY PROFILES



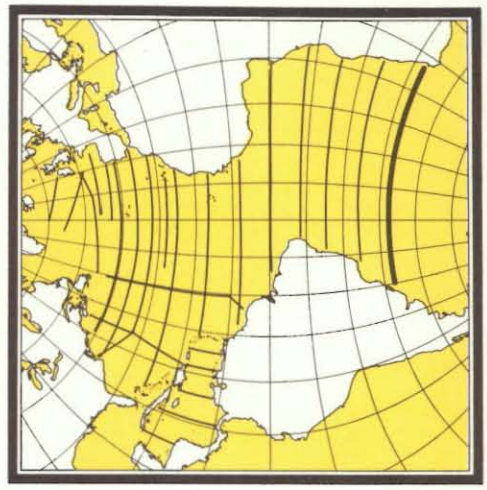
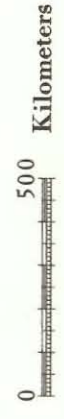






32° S.

SALINITY ‰



April 11, 1959, ATLANTIS station 5798.  
 April 26 - June 3, 1959, ATLANTIS stations 5806-5843.  
 Brazil to Union of South Africa.  
 Mean latitude, 32° 30' S.



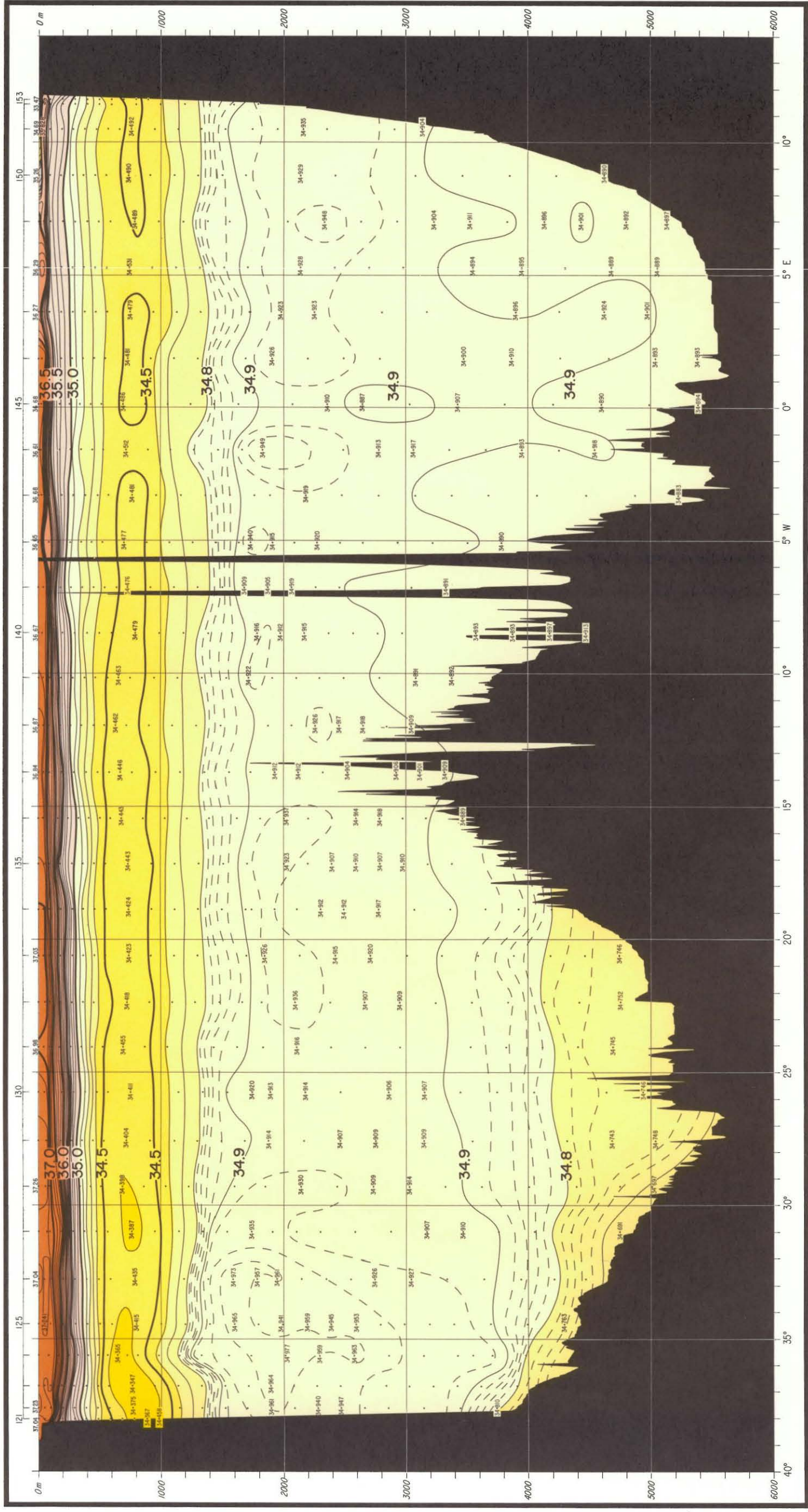






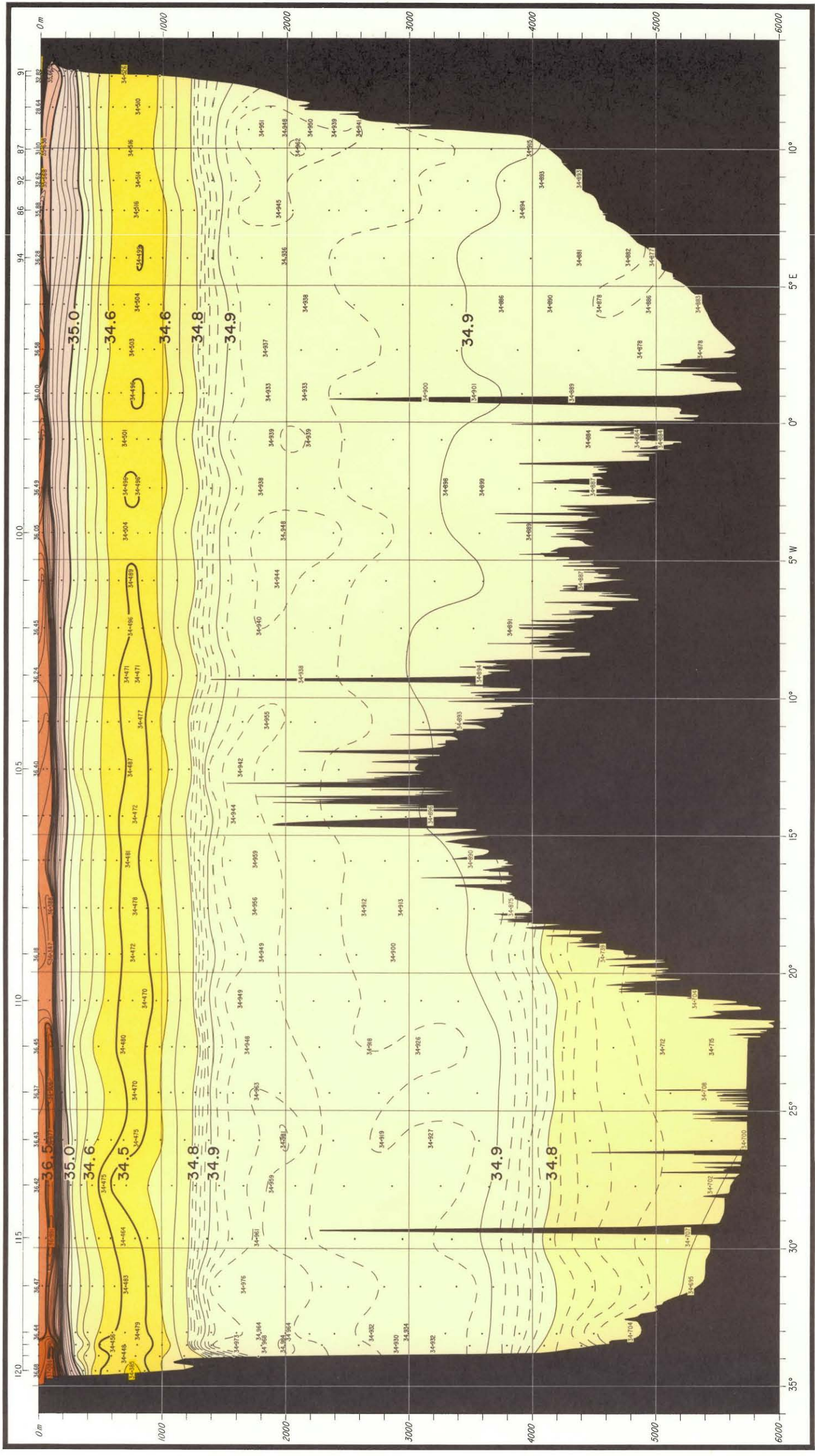










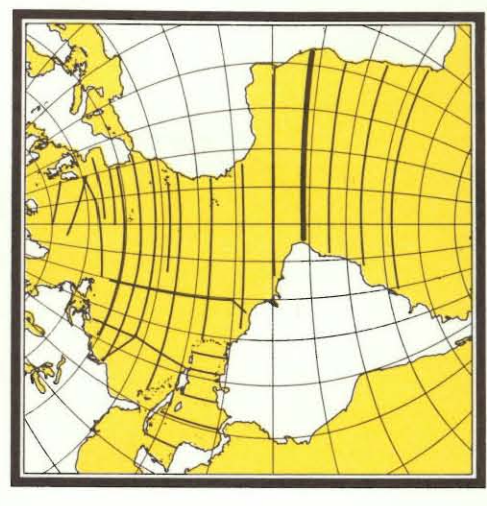


8° S.

SALINITY ‰

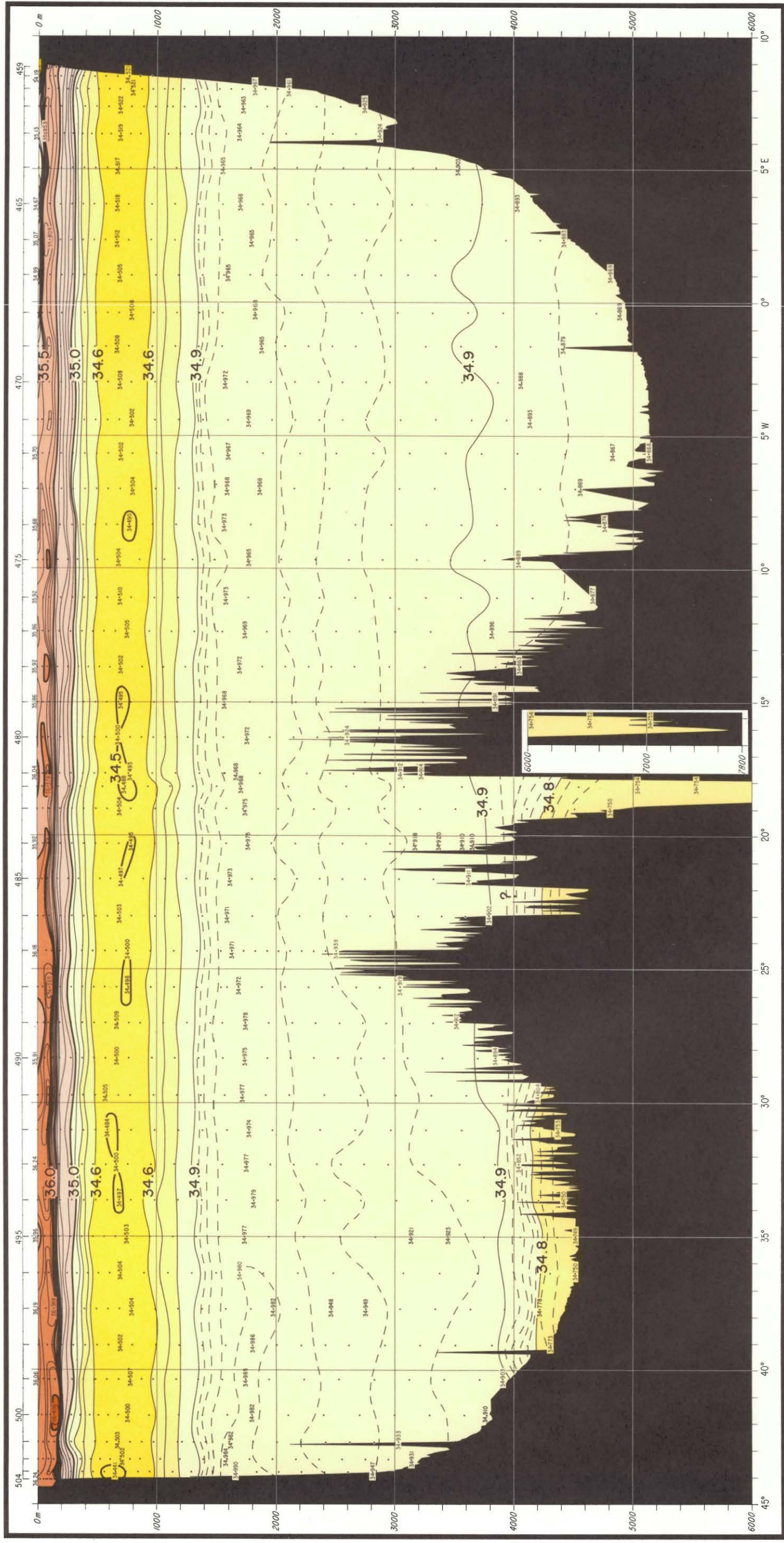
0 500 Kilometers

March 1-22, 1957, CRAWFORD stations 86-92, 94-120.  
Brazil to Angola.  
Mean latitude, 8° 15' S.







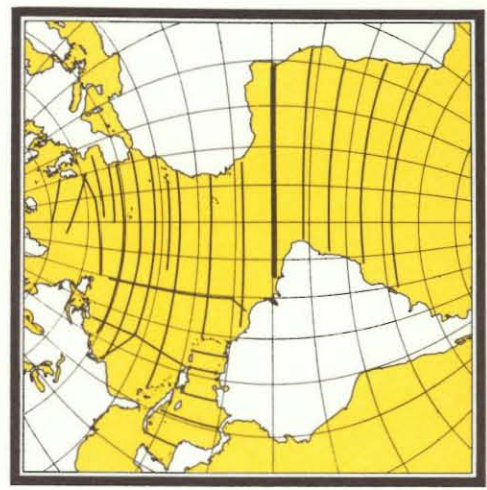


0°

SALINITY ‰

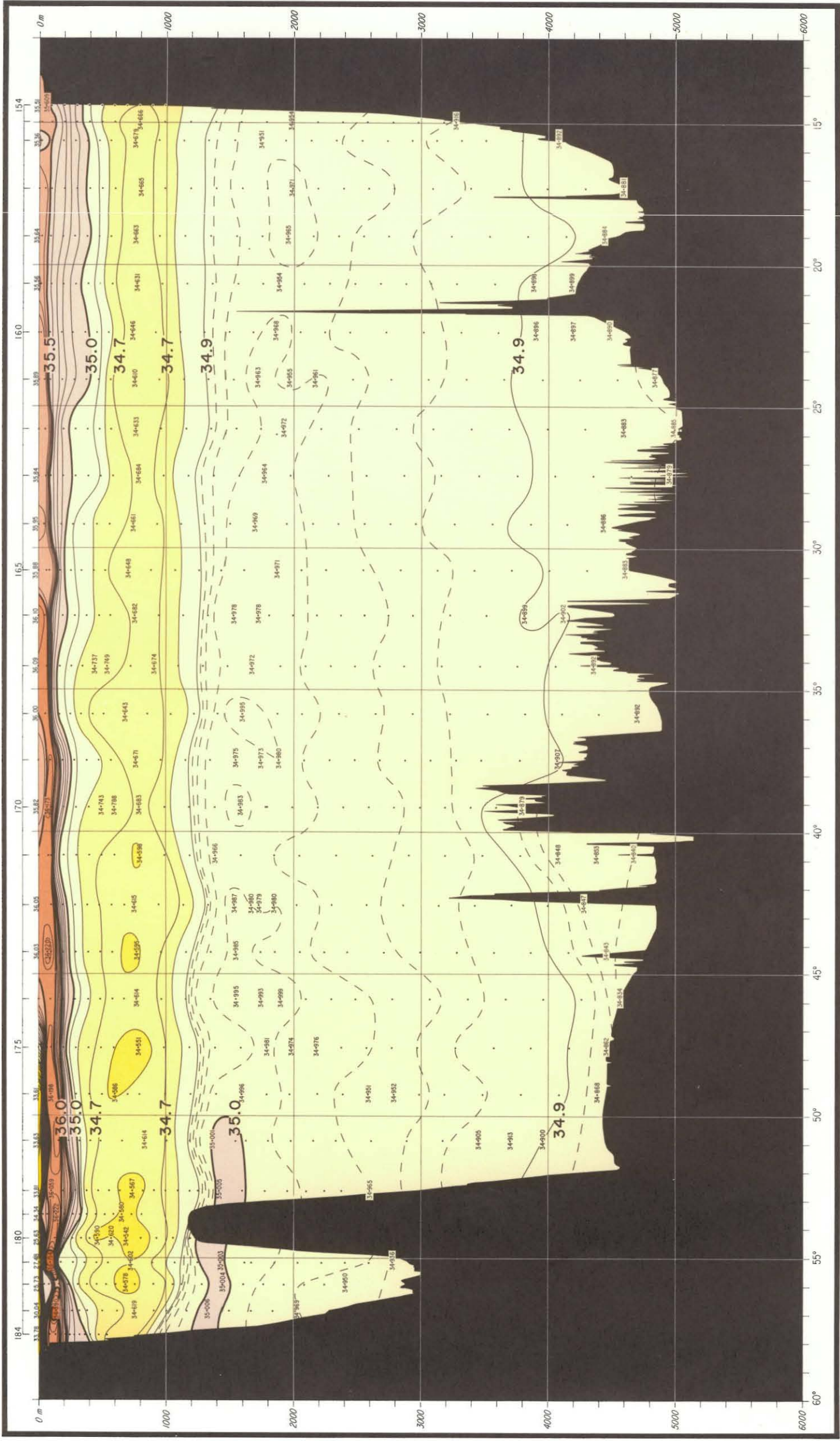
0 500 Kilometers

November 7-30, 1958, CRAWFORD stations 459-504.  
Brazil to French Equatorial Africa.  
Mean latitude, 0° 15' S.







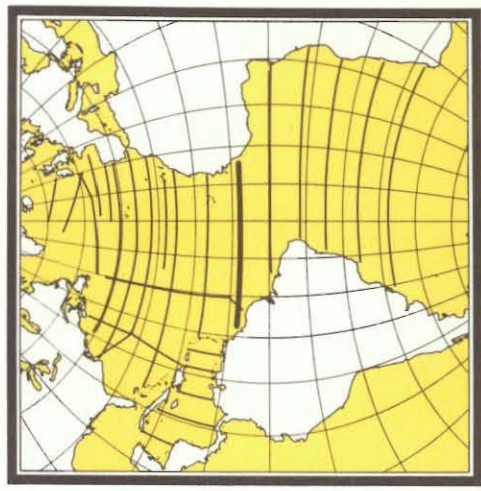


8°N.

SALINITY ‰

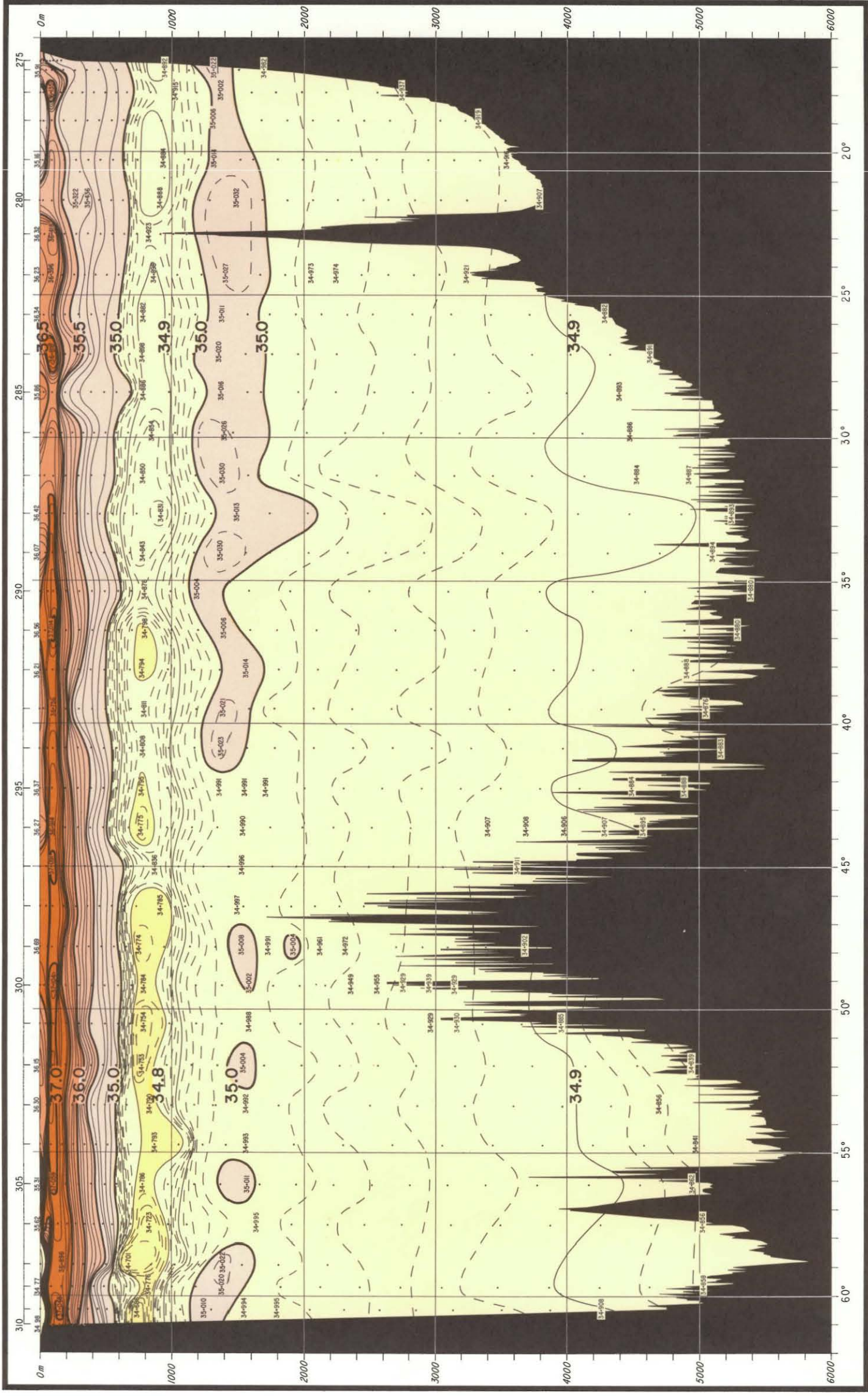
0 500 Kilometers

May 6-21, 1957, CRAWFORD stations 154-184.  
Brazil to Sierra Leona.  
Mean latitude, 8° 15' N.







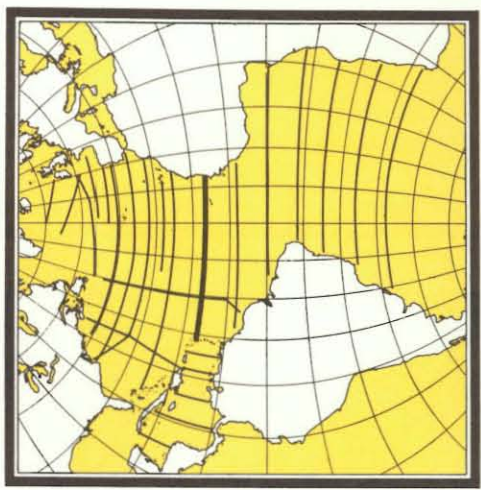


16° N.

SALINITY ‰

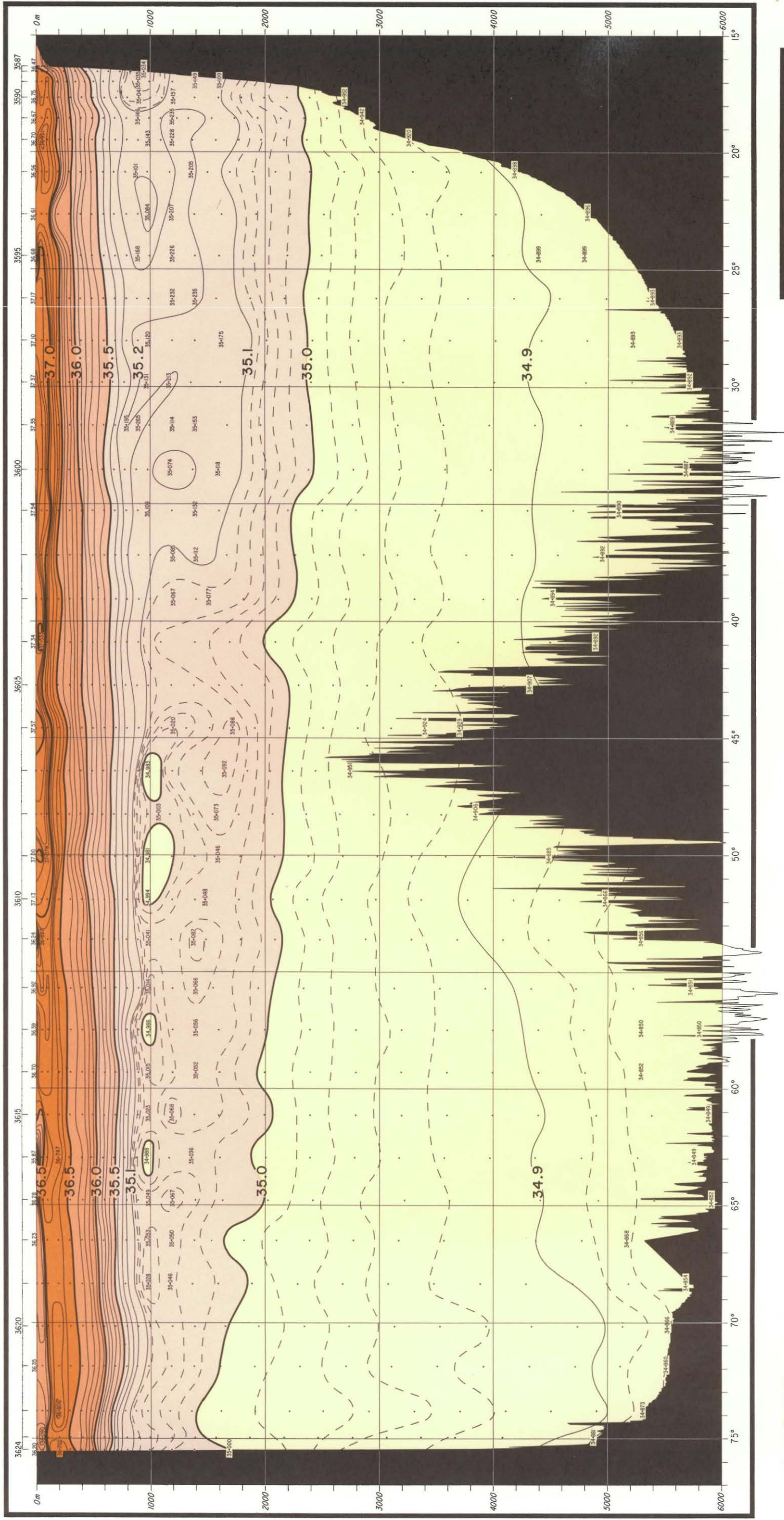
November 13-29, 1957, CRAWFORD stations 275-310.  
 Guadeloupe to French West Africa.  
 Mean latitude, 16° 15' N.

0 500 Kilometers







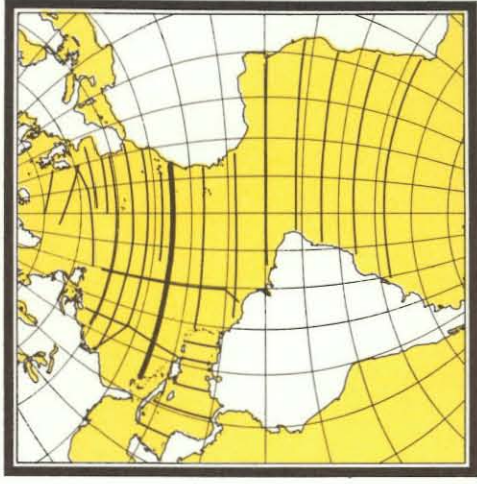


24° N.

SALINITY ‰

0 500 Kilometers

October 6-28, 1957, DISCOVERY II stations 3587-3624.  
Bahamas to Spanish Sahara.  
Mean latitude, 24° 30' N.





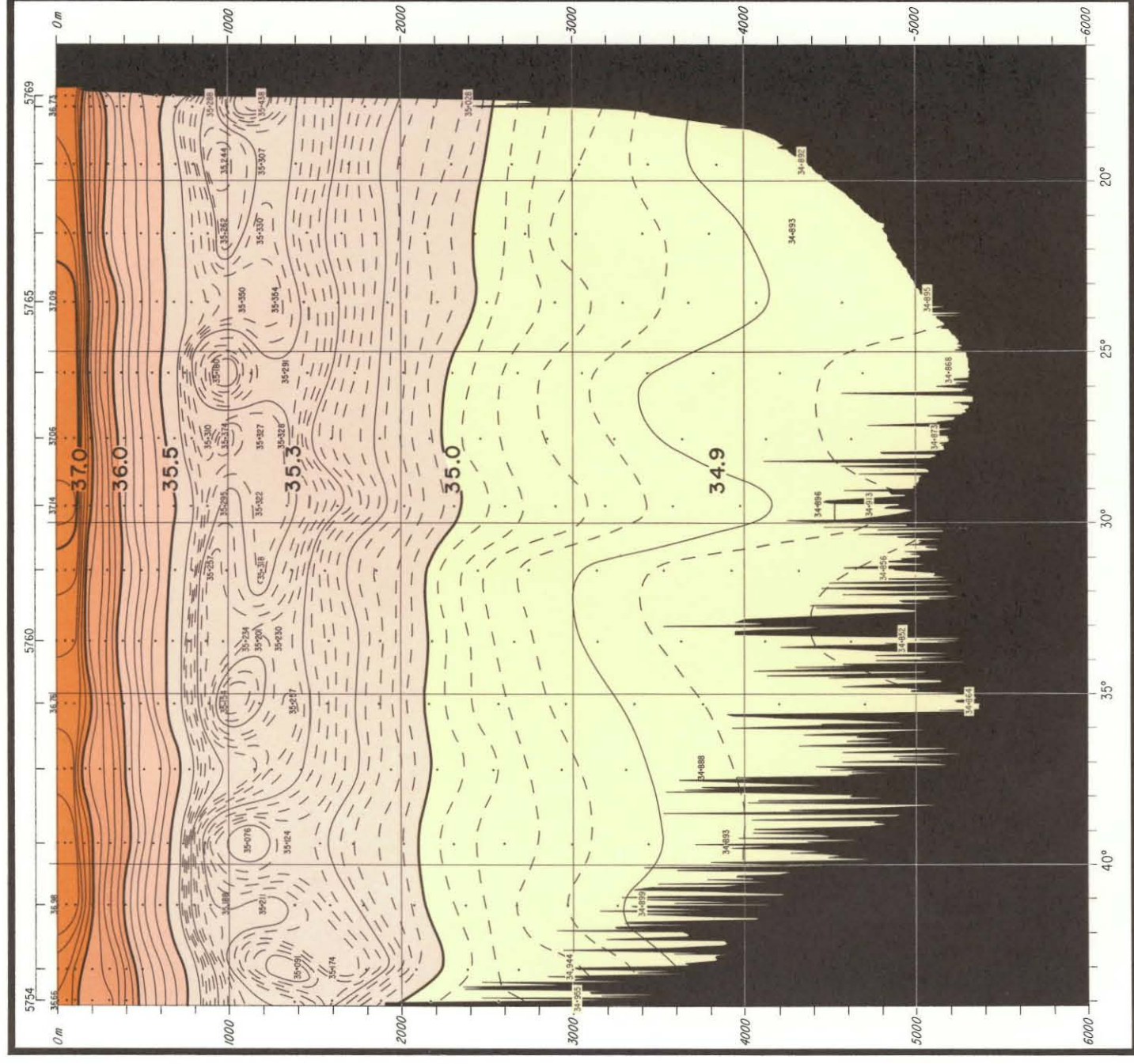
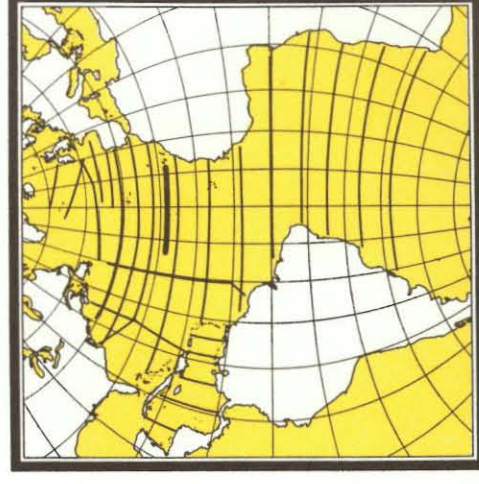


28° N.

SALINITY ‰

0 500 Kilometers

February 12-22, 1959, ATLANTIS stations 5754-5769.  
Mid-Atlantic Ridge to Canary Islands.  
Mean latitude, 28° 15' N.





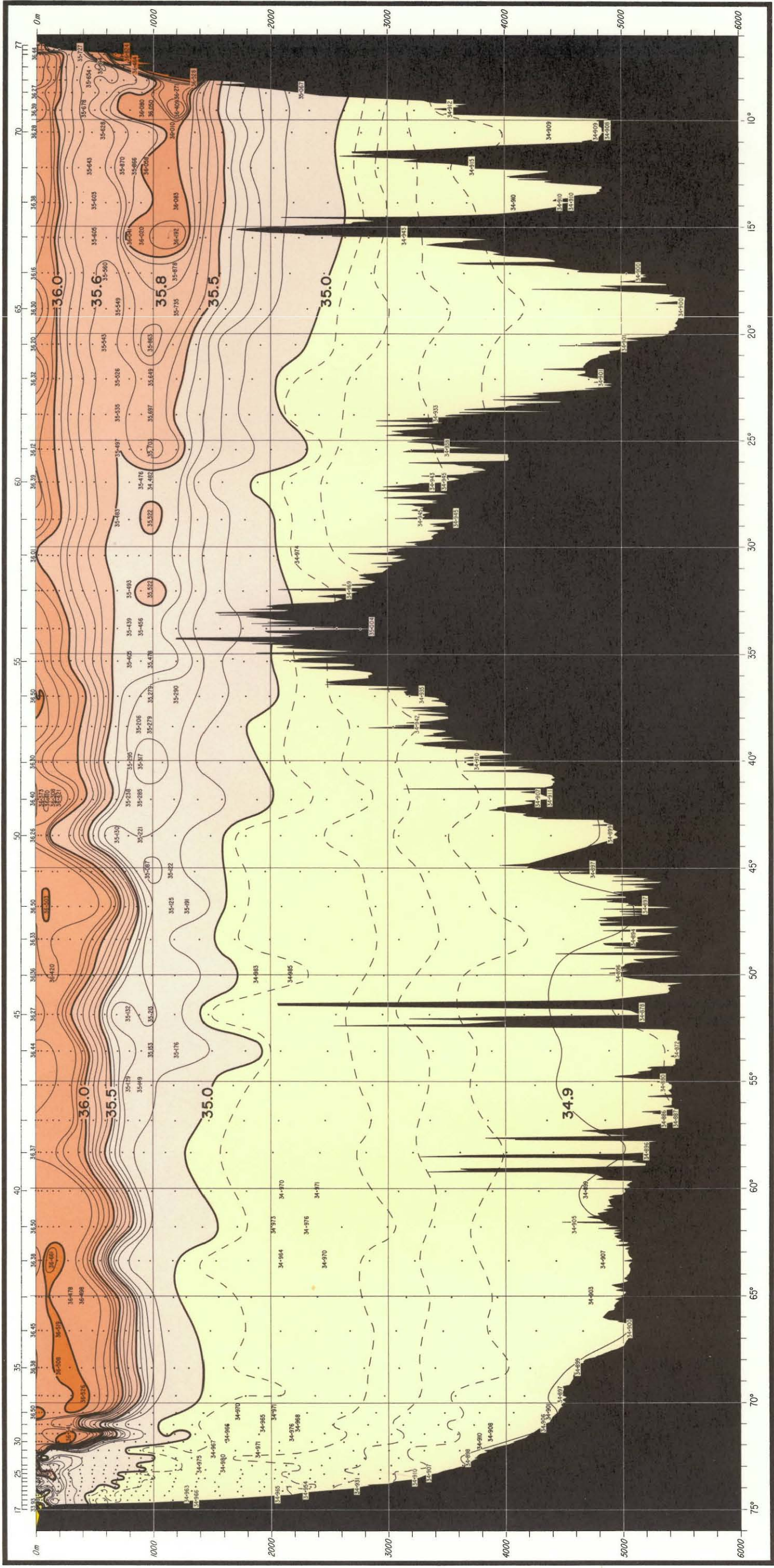










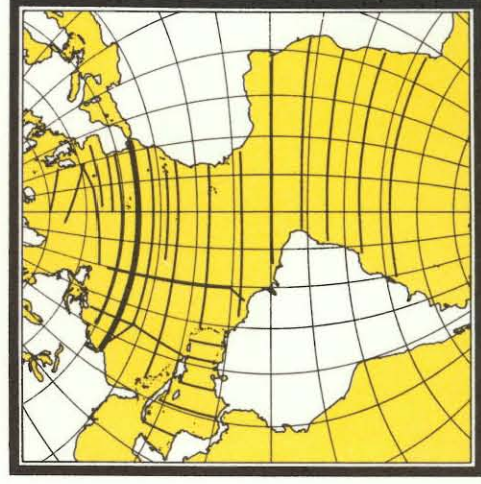


**36° N.**

**SALINITY ‰**

0 500 Kilometers

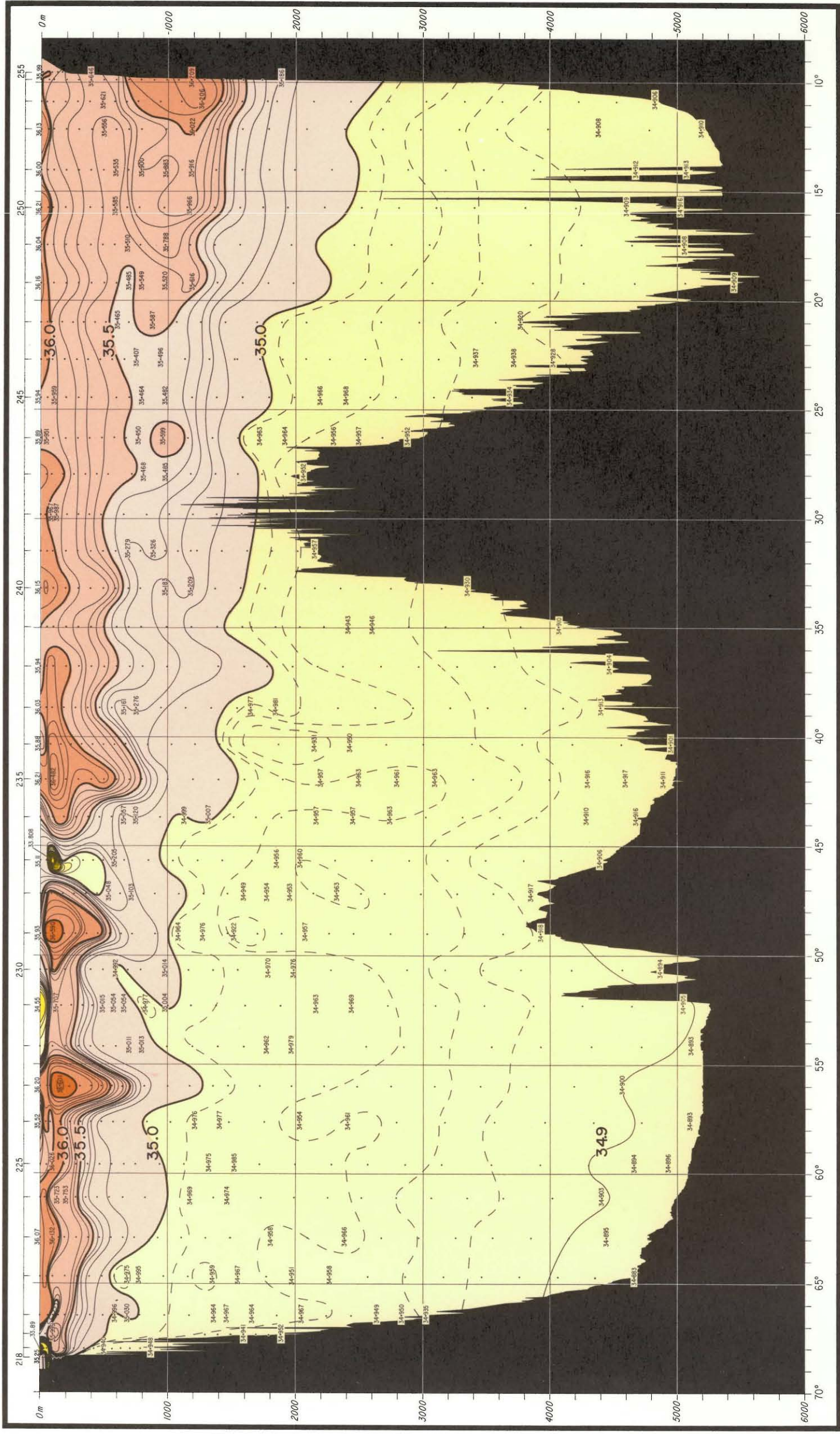
April 19 - May 12, 1959, CHAIN stations 17-77.  
North Carolina to Spain.  
Mean latitude, 36° 15' N.









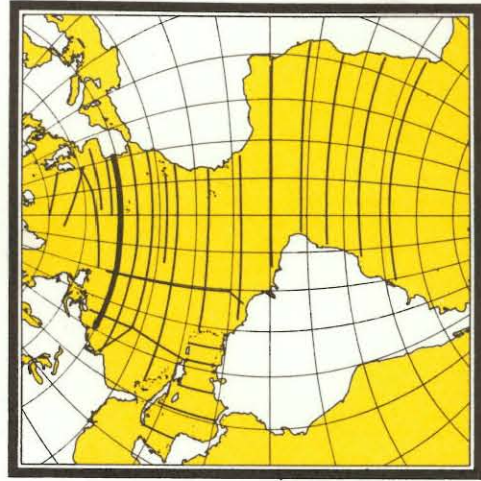


40° N.

SALINITY ‰

0 500 Kilometers

October 2-22, 1957, CRAWFORD stations 218-255.  
Georges Bank to Portugal.  
Mean latitude, 40° 15' N.

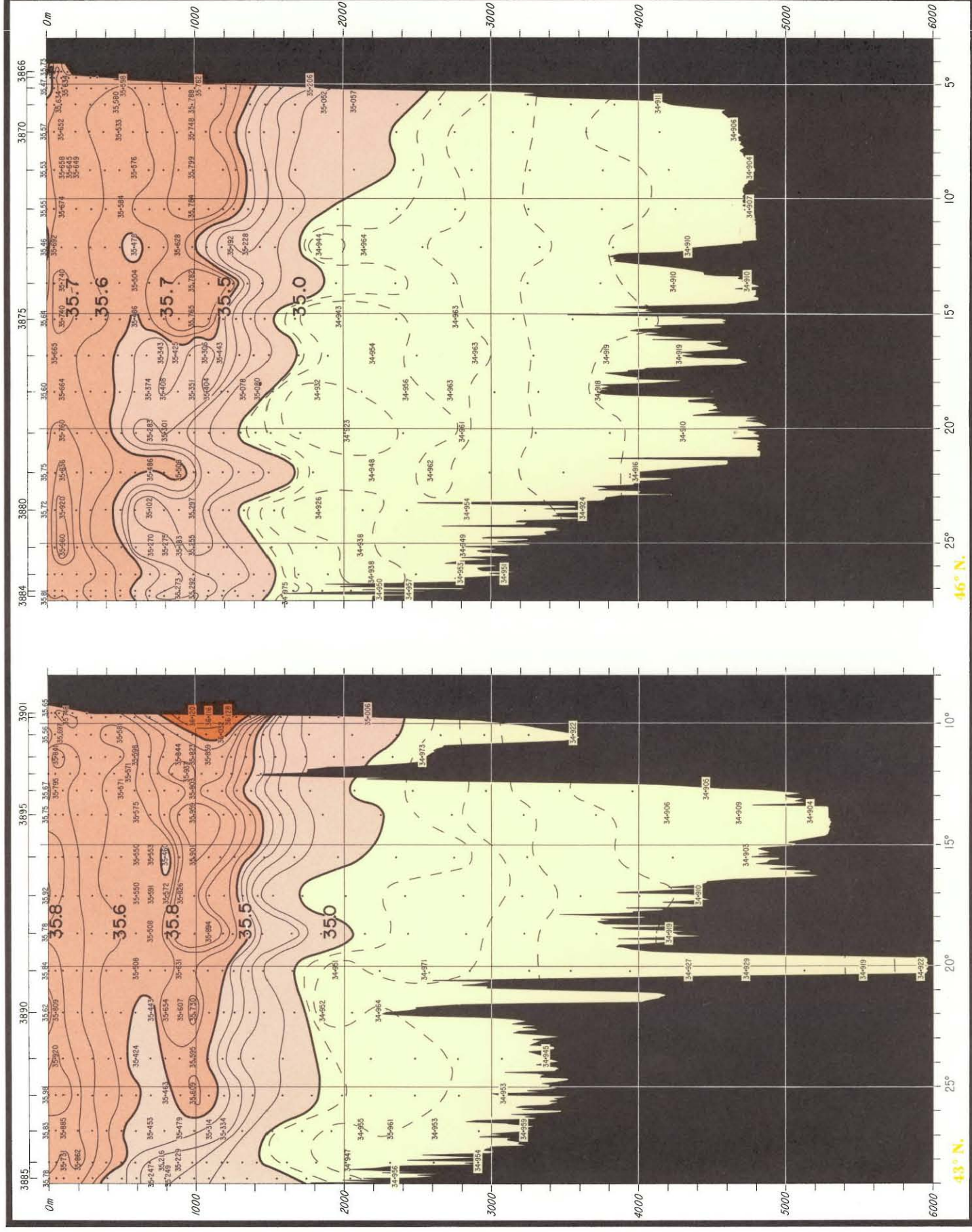






43° N.  
46° N.

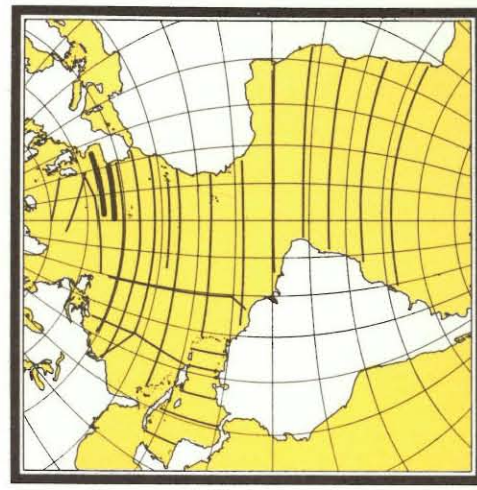
SALINITY ‰



43° N. September 11-16, 1958, DISCOVERY II stations 3885-3901.  
Mid-Atlantic Ridge to Cape Finisterre.  
Mean latitude, 43° 05' N.

46° N. September 4-10, 1958, DISCOVERY II stations 3866-3884.  
Mid-Atlantic Ridge to Bay of Biscay.  
Mean latitude, 46° 20' N.

0 500 Kilometers













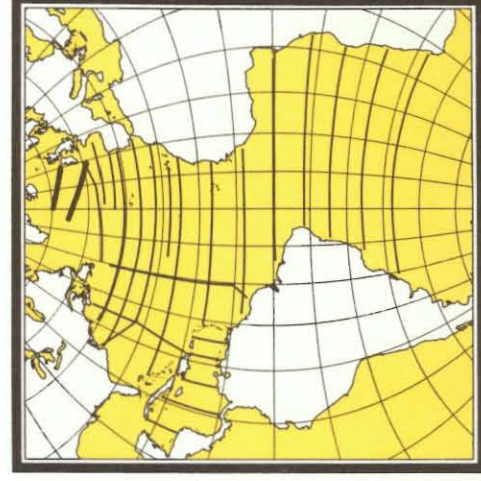
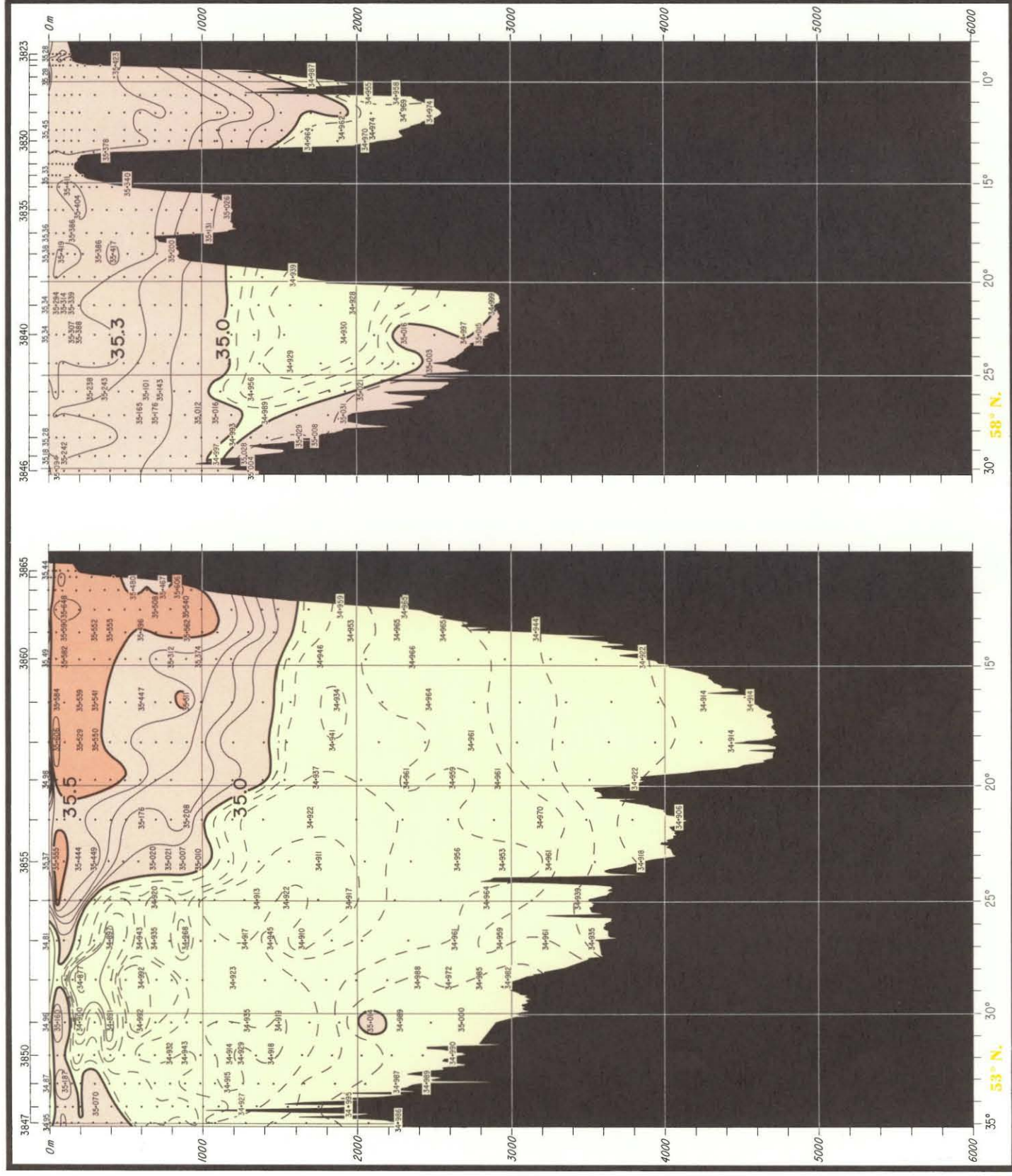
53° N.  
58° N.

SALINITY ‰

0 500 Kilometers

53° N. August 24-30, 1958, Discovery II stations 3847-3865.  
Mid-Atlantic Ridge to offing of English Channel.  
From 55° 57' N., 34° 59' W. to 49° 19' N., 11° 08' W.

58° N. August 18-22, 1958, Discovery II stations 3823-3846.  
Mid-Atlantic Ridge to North Ireland.  
From 60° 01' N., 30° 05' W. to 56° 00' N., 8° 40' W.

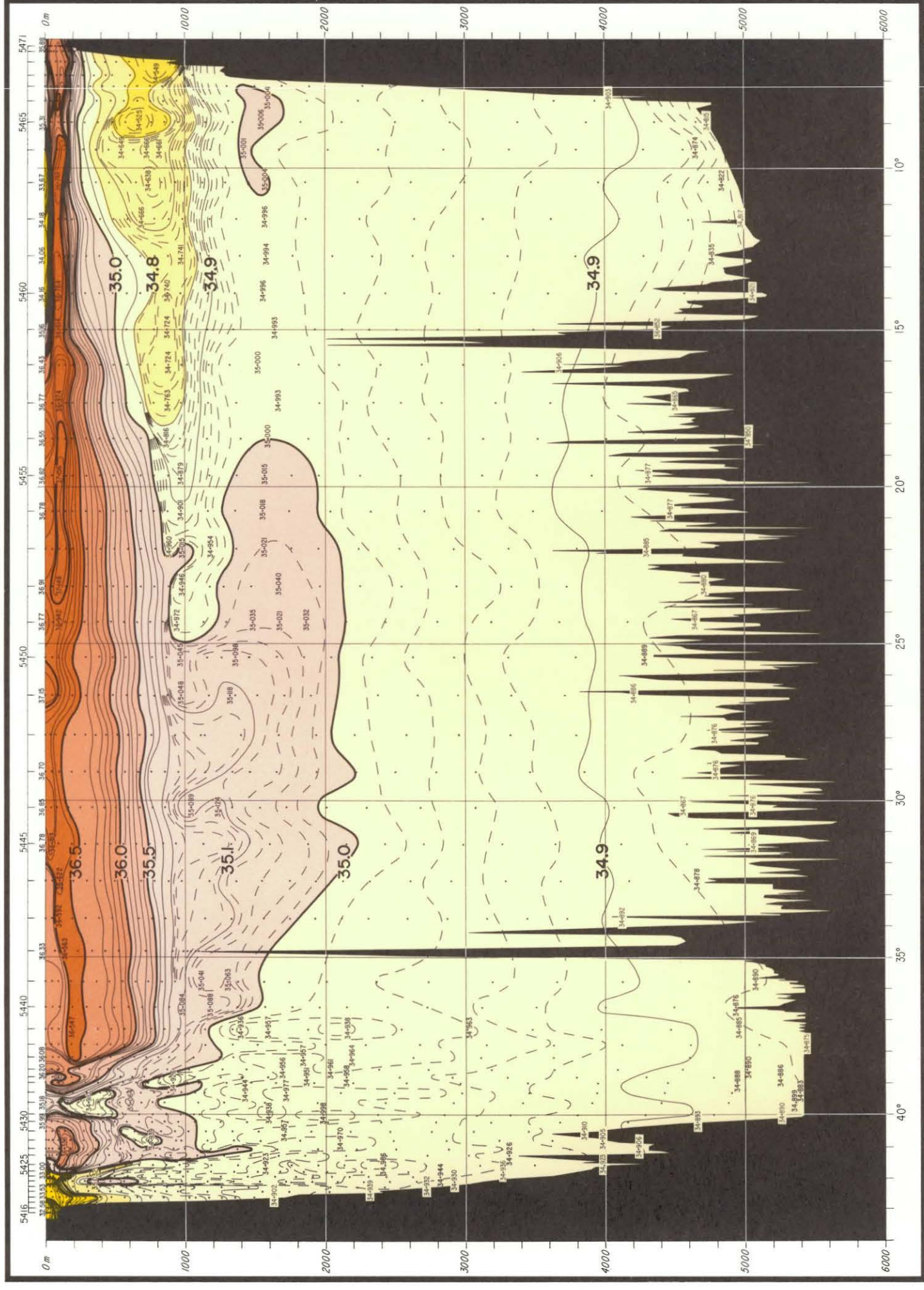




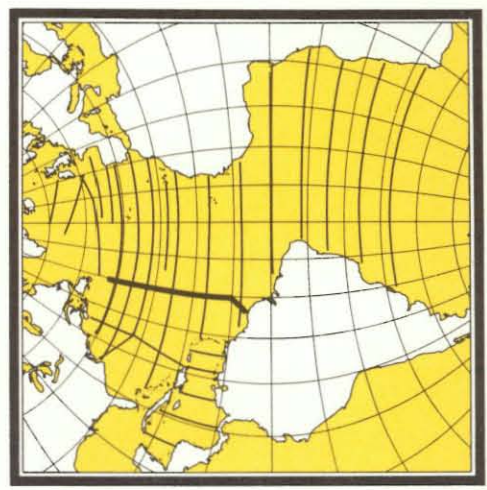


# 50° W.

SALINITY ‰



November 12 - December 2, 1956, ATLANTIS stations 5416-5471.  
Grand Banks to French Guiana.  
Mean longitude, 50° 30' W.

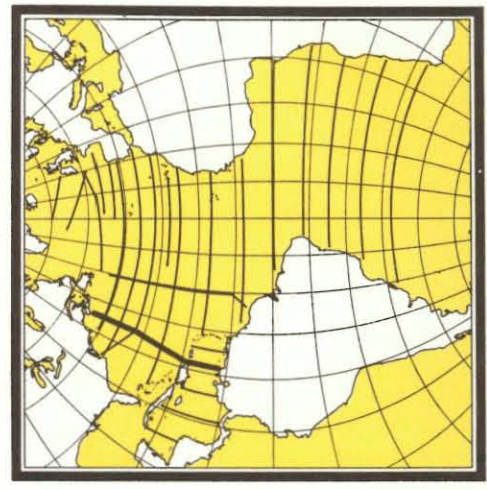
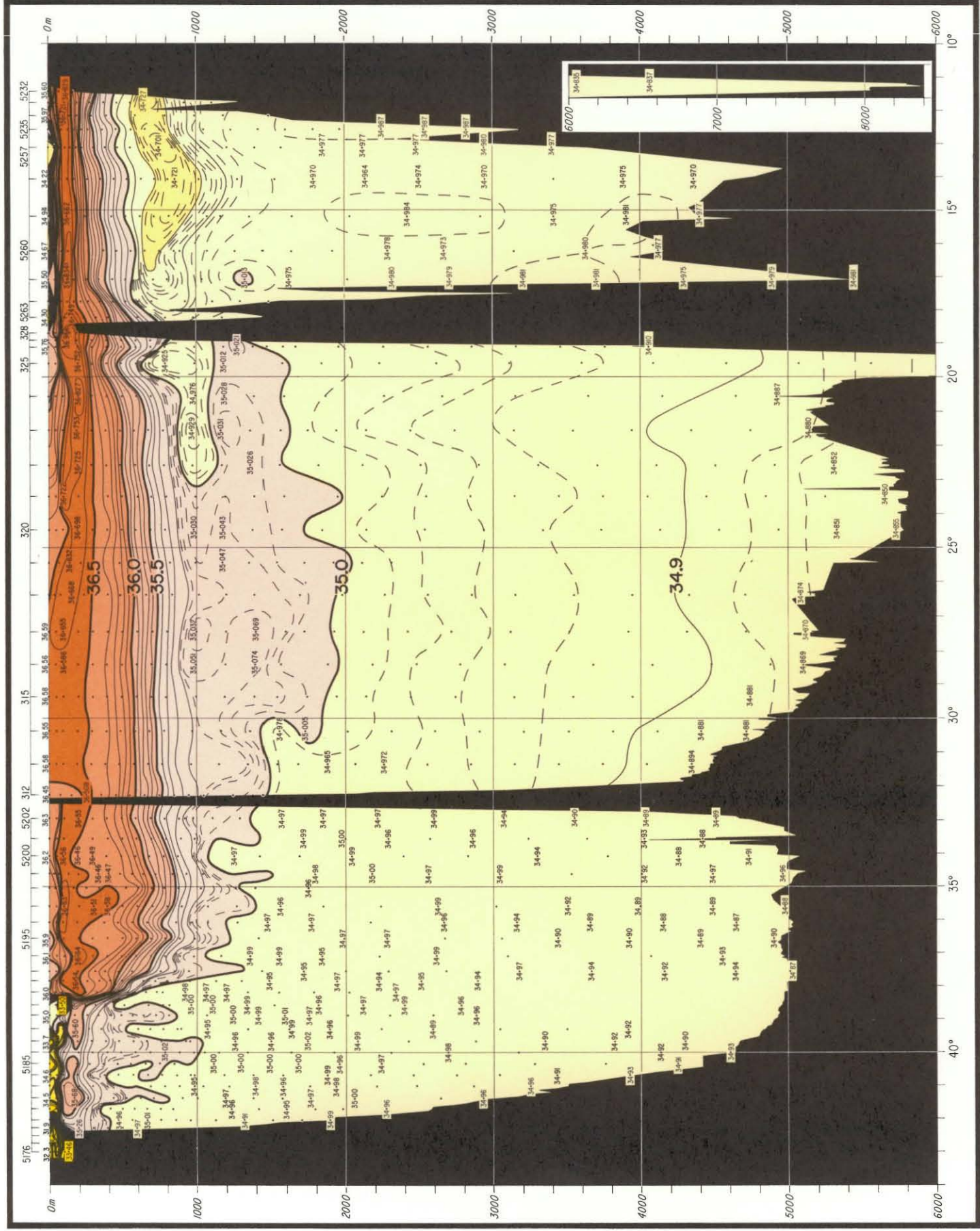






# 66° W.

SALINITY ‰

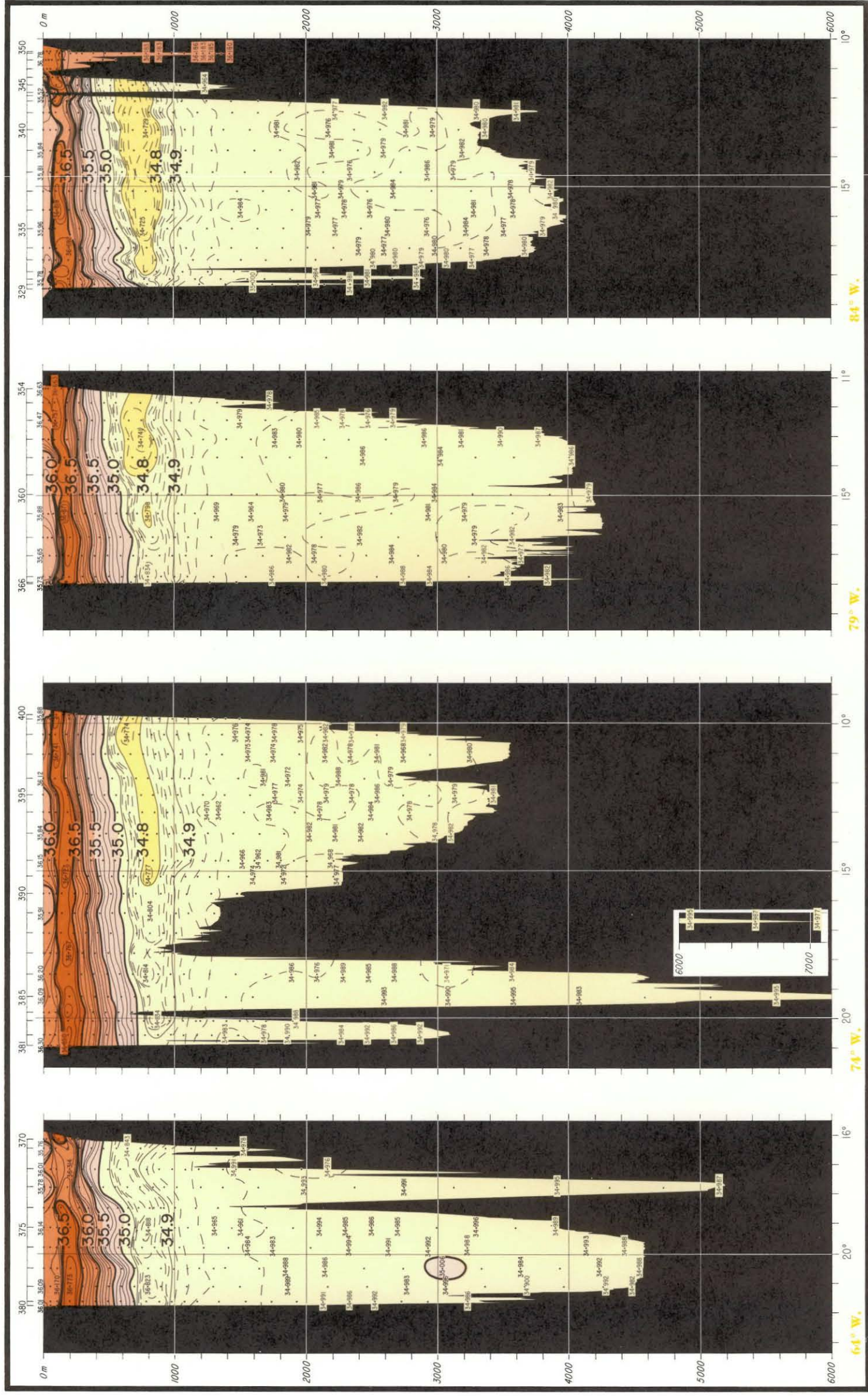


September 19-26, 1954, ATLANTIS stations 5176-5202.  
 December 6-7, 1954, ATLANTIS stations 5232-5235.  
 December 11-13, 1954, ATLANTIS stations 5257-5263.  
 February 11-17, 1958, CRAWFORD stations 312-328.  
 Nova Scotia to Bermuda to Mona Passage to Venezuela.

0 500 Kilometers







# Caribbean Sea

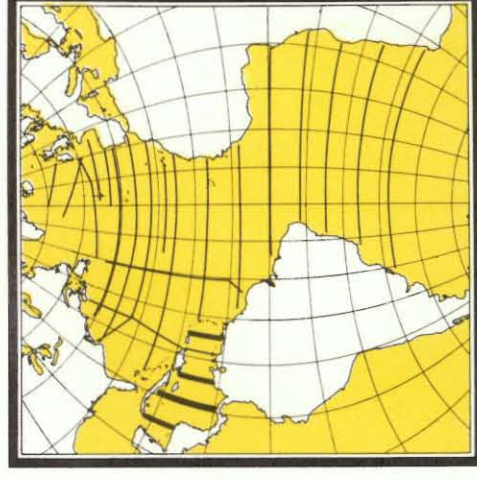
SALINITY ‰

**64° W.** February 21-25, 1958, CRAWFORD stations 329-350. Virgin Islands to Venezuela. Mean longitude, 64° 30' W.

**74° W.** February 27 - March 4, 1958, CRAWFORD stations 354-369. Haiti to Columbia. Mean longitude, 73° 45' W.

**79° W.** March 16-20, 1958, CRAWFORD stations 381-400. Cuba to Panama. Mean longitude, 79° 15' W.

**84° W.** March 13-15, 1958, CRAWFORD stations 370-380. Cuba to Honduras. Mean longitude, 84° 30' W.

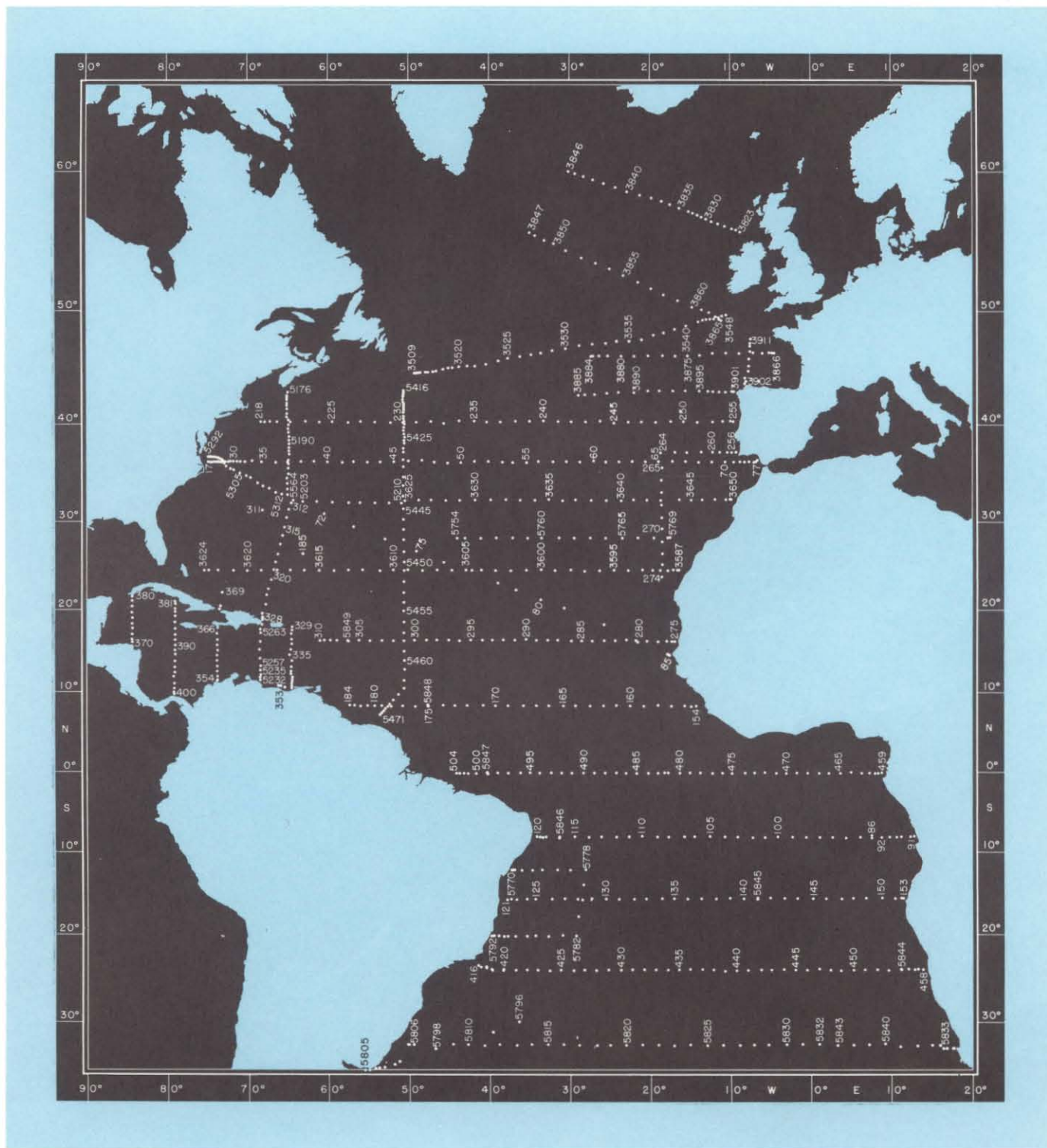








# STATION DATA



Detailed chart of oceanographic station positions.









LAT. 37° 52'N LONG. 64° 57'W DEPTH 4950 m GMT 0942  
 LAT. 37° 33'N LONG. 64° 57'W DEPTH 5012 m GMT 1350  
 LAT. 37° 06'N LONG. 65° 00'W DEPTH 4984 m GMT 1959  
 LAT. 36° 05'N LONG. 65° 00'W DEPTH 5036 m GMT 0930  
 LAT. 35° 35'N LONG. 65° 00'W DEPTH 5000 m GMT 2006  
 LAT. 35° 02'N LONG. 65° 01'W DEPTH 4900 m GMT 0242  
 LAT. 34° 36'N LONG. 65° 11'W DEPTH 5050 m GMT 0956

DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰
1	27.11	35.94	1	25.97	35.94	1	25.89	36.09	1	26.05	36.09	1	26.19	36.08
44	26.75	36.17	49	26.07	36.06	45	25.21	36.30	50	26.04	36.09	41	26.14	36.08
88	20.60	36.55	98	25.65	36.36	91	21.26	36.61	99	21.81	36.53	83	23.17	36.60
173*	18.49	36.54	195*	20.74	36.54	183	18.86	36.55	189*	18.87	36.51	166*	19.13	36.53
256	18.14	36.44	293	18.81	36.45	276	18.20	36.50	298	18.29	36.51	251	18.39	36.46
335*	17.60	36.38	390*	17.92	36.45	370*	17.83	36.46	397*	17.89	36.48	336*	18.16	36.48
414	15.57	36.24	488	17.51	36.45	465	17.19	36.35	497	17.29	36.36	424	18.01	36.50
482*	13.96	35.79	557*	13.72	35.77	586*	15.86	36.11	596*	15.98	36.12	514*	17.54	36.42
555	11.89	35.16	683	12.81	35.62	684	14.71	35.95	695	14.55	35.89	601	16.67	36.40?
634*	8.79	35.26	781*	12.68	35.64	756*	11.60	35.50	794*	12.30	35.64?	688*	15.19	36.04
715	7.16	35.07	880	10.05	35.31	854	9.55	35.31	894	9.59	35.26	776	13.42	35.77
796*	6.21	35.07	976*	7.82	35.10	953	8.06	35.07	1017*	6.27	35.03	868	---	35.44
948*	4.87	34.97	1161*	4.78	34.99	1122*	4.99	35.00	1266	4.81	35.04?	1039*	7.64	35.09
1123	4.43	34.98	1433	4.03	34.99	1413	4.42	34.99	1559*	4.14	34.96	1225	5.10	35.00
1298*	4.18	34.98	1714*	3.86	34.95	1701	---	34.98	1850	3.83	34.97	1507*	4.25	35.00
1479	4.02	34.95	2001	3.67	34.96	1990	3.74	34.97	2239*	3.59	34.97	1796	3.92	34.98
1662	3.86	34.95	2288*	3.49	34.96	2281	3.58	34.97	2627	3.27	34.99	2181*	3.63	35.00
1941	3.66	34.97	2682	3.26	34.96	2668	3.27	34.97	3019*	2.97	34.96	2566	3.36	34.97
2227*	3.49	34.94	3176*	2.90	34.97	3098*	2.94	34.96	3505	2.57	34.92	3047*	2.95	34.99
2512	3.27	34.95	3663	2.57	34.94	3442	2.62	34.90	3997*	2.36	34.89	3528	2.56	34.96
2894*	2.94	34.94	4154*	2.37	34.92	3921*	2.42	34.90	4485	2.29	34.89	4005	2.35	34.92
			4640	2.33	34.94	4405	2.30	34.89	4873*	2.29	34.88	4485	2.30	34.97?
			5012*	2.33	34.87?	4900*	2.31	34.90	5036*	2.33	---	4960	2.33	34.86?

STATION # 5200 DATE 25 IX 54 LAT. 34° 04'N LONG. 65° 02'W DEPTH 5000 m GMT 1722  
 STATION # 5201 DATE 25 IX 54 LAT. 33° 34'N LONG. 65° 03'W DEPTH 4500 m GMT 2341  
 STATION # 5202 DATE 26 IX 54 LAT. 32° 56'N LONG. 65° 02'W DEPTH 4650 m GMT 0751  
 STATION # 5203 DATE 11 XI 54 LAT. 32° 00'N LONG. 63° 03'W DEPTH 4709 m GMT 1342  
 STATION # 5204 DATE 12 XI 54 LAT. 32° 02'N LONG. 61° 16'W DEPTH 4672 m GMT 1154  
 STATION # 5205 DATE 13 XI 54 LAT. 32° 00'N LONG. 59° 25'W DEPTH 5228 m GMT 0630  
 STATION # 5206 DATE 13 XI 54 LAT. 31° 55'N LONG. 57° 48'W DEPTH 5404 m GMT 2019  
 STATION # 5207 DATE 14 XI 54 LAT. 31° 59'N LONG. 56° 02'W DEPTH 5516 m GMT 1330

DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰	DEPTH m	T °C	S ‰
1	26.14	36.22	1	24.80	36.625	1	24.86	36.723	1	23.87	36.390	1	23.27	36.344
48	22.74	36.54	44	24.75	36.523	45	24.64	36.723	50	24.23	36.592	38	23.01	36.471
96	19.87	36.56	89	21.05	36.559	91	20.13	36.629	99	21.18	36.681	77	20.73	36.603
192*	18.42	36.46	179*	18.56	36.508	183*	18.33	36.497	198*	18.73	36.529	156*	18.31	36.492
289	18.15	36.49	269	18.17	36.489	277	18.01	36.462	298	18.11	36.498	238	18.01	36.489
386*	17.92	36.45	391*	17.92	36.47	371*	17.50	36.420	397*	17.70	36.451	322*	17.55	36.427
483	17.43	36.40	482	17.49	36.415	466	16.40	36.231	486	17.51	36.416	407	---	36.385
580*	16.09	36.18	544*	16.28	36.214	563	14.93	36.016	595*	15.62	36.100	492*	15.62	36.117
677	14.37	35.88	684	12.93	35.94	660	12.92	35.691	694	14.00	35.850	582	14.10	35.865
774*	12.27	35.68?	781	10.53	35.624	731*	12.55	35.691	794*	11.98	35.557	771	10.21	35.360
872	9.82	35.26	879	8.52	35.315	855	8.94	35.247	893	9.96	35.328	869*	8.56	35.212
970*	7.62	35.10	977*	6.57	35.06	920*	8.01	35.141	992*	7.61	35.101	971*	7.61	35.101
1073*	5.89	35.00	1133*	7.46	35.09	987*	7.01	35.107	1170*	6.35	35.161	1078*	6.14	35.129
1250	4.66	34.97	1106	5.21	35.03	1143	5.46	35.064	1366	5.26	35.103	1355	4.95	35.097
1428*	4.18	34.98	1292*	4.42	35.01	1301*	4.89	35.054	1475	4.62	35.051	1636*	4.27	35.041
1691	3.86	34.97	1571	4.05	34.97	1550	4.21	34.998	1863*	4.42	35.068	2011	3.72	34.997
2044*	3.55	34.99	2289*	3.46	34.96	1804*	3.82	34.975	1958	3.95	34.994	2484*	3.24	34.983
2392	3.37	34.97	2221	3.20	34.97	2059	3.67	34.975	2354*	3.51	34.985	2860	2.94	34.961
2832*	3.12	34.97	2598*	3.57	34.97	2343	3.42	35.015	2747	3.18	34.978	3441*	2.66	34.934
3301	2.72	34.94	3072	2.74	34.94	2404*	3.39	34.976	3237*	2.78	34.949	3927	2.40	34.912
3775*	2.44	34.91	3548*	2.40	34.90	3751	3.02	34.955	3728	2.62	34.930?	4418*	2.30	34.902
4253	2.30	34.88	4028	2.26	34.89	3184*	2.64	34.918	4218	2.31	34.904	4909	2.19	34.877
4730*	2.30	34.91	4510	---	34.89	4103*	2.26	34.882	4760	2.27	34.888	5404*	2.13	34.868







L.A.T. 17° 45'N				L.A.T. 18° 14'N				L.A.T. 36° 49'N				L.A.T. 36° 44'N				L.A.T. 36° 40'N				L.A.T. 36° 35'N			
LONG. 68° 35'W				LONG. 68° 19'W				LONG. 74° 55'W				LONG. 74° 44'W				LONG. 74° 32'W				LONG. 74° 20'W			
DEPTH 1590 m				DEPTH 1440 m				DEPTH 33 m				DEPTH 97 m				DEPTH 1428 m				DEPTH 1906 m			
GMT 0312				GMT 1006				GMT 0546				GMT 0723				GMT 0918				GMT 1138			
DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo
m	oC			m	oC			m	oC			m	oC			m	oC			m	oC		
1	27.02	34.645	34.304	1	26.95	34.304	34.196	1	18.61	34.229	34.873	1	19.78	33.873	34.873	1	19.20	34.035	34.873				
44	---	35.930	35.930	40	26.60	35.983	34.471	5	19.74	34.471	34.874	25	19.22	34.790	34.790	24	15.86	34.664	34.664				
88	24.36	36.547	36.461	81	25.55	36.461	34.568	15	19.21	34.568	34.568	55	7.66	33.420	33.420	49	10.12	33.889	33.889				
131*	21.16	36.622	36.749	121*	22.97	36.749	33.762	25	---	33.762	---	85	---	---	---	98*	12.99	35.690	35.690				
175	19.53	36.531	36.749	162	21.29	36.749	---	---	---	---	---	---	---	---	---	197	9.33	35.188	35.188				
219	18.50	36.451	36.501	242*	18.23	36.501	---	---	---	---	---	---	---	---	295*	7.49	35.084	35.084					
263	---	36.282	36.299	323	16.80	36.299	---	---	---	---	---	---	---	---	393	5.56	35.014	35.014					
350*	15.74	36.111	36.079	404*	15.41	36.079	---	---	---	---	---	---	---	---	491*	4.99	35.002	35.002					
438	13.04	35.631	35.243	607	10.00	35.243	---	---	---	---	---	---	---	---	688	4.33	34.992	34.992					
525	10.26	35.155	34.928	790*	7.07	34.928	---	---	---	---	---	---	---	---	884*	4.02	34.976	34.976					
612	8.55	34.955	34.938	980	5.06	34.938	---	---	---	---	---	---	---	---	1081	3.84	34.969	34.969					
700*	7.56	34.899	34.970	1176*	4.35	34.970	---	---	---	---	---	---	---	---	1375*	3.76	34.963	34.963					
925	5.60	34.891	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1112*	4.71	34.946	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1298	4.29	34.964	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
1484*	4.13	34.973	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				

STATION # 5296				STATION # 5297				STATION # 5298				STATION # 5299				STATION # 5300				STATION # 5301				STATION # 5302				STATION # 5303							
DATE 9 VI 55				DATE 9 VI 55				DATE 9 VI 55				DATE 10 VI 55				DATE 10 VI 55				DATE 10 VI 55				DATE 10 VI 55				DATE 10 VI 55							
L.A.T. 36° 31'N				L.A.T. 36° 27'N				L.A.T. 36° 23'N				L.A.T. 36° 15'N				L.A.T. 36° 09'N				L.A.T. 36° 03'N				L.A.T. 35° 53'N				L.A.T. 35° 45'N							
LONG. 74° 08'W				LONG. 73° 58'W				LONG. 73° 45'W				LONG. 73° 29'W				LONG. 73° 16'W				LONG. 73° 01'W				LONG. 72° 37'W				LONG. 72° 15'W							
DEPTH 2318 m				DEPTH 2651 m				DEPTH 2837 m				DEPTH 3170 m				DEPTH 3430 m				DEPTH 3663 m				DEPTH 4023 m				DEPTH 4023 m							
GMT 1442				GMT 1743				GMT 2055				GMT 0050				GMT 0517				GMT 0953				GMT 1605				GMT 2108							
DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo
m	oC			m	oC			m	oC			m	oC			m	oC			m	oC			m	oC			m	oC			m	oC		
1	18.47	33.891	33.530	1	21.00	33.530	33.530	1	25.97	36.206	36.056	1	23.71	36.251	36.251	1	23.41	36.328	36.328																
23	16.75	34.736	---	24	23.11	34.736	---	17	25.83	36.381	36.055	24	23.68	36.255	36.255	25	23.39	36.325	36.325																
46	12.12	34.518	34.888	48	16.50	34.888	34.888	35	24.25	36.420	36.489	49	21.58	36.491	36.491	49	22.38	36.521	36.521																
93*	13.50	35.666	35.538	97*	13.88	35.538	35.538	71*	21.21	36.411	36.598	86	21.77	36.509	36.509	98*	20.89	36.576	36.576																
186	10.34	35.330	35.629	193	12.58	35.629	35.629	150	16.90	---	36.617	194	18.45	36.529	36.529	197	18.93	36.570	36.570																
280*	8.03	35.119	35.194	290*	9.13	35.194	35.194	233*	12.77	35.621	36.511	292	---	---	36.493	295*	18.26	36.515	36.515																
375	6.30	35.047	35.071	387	7.09	35.071	35.071	316	10.49	35.358	36.458	388	18.15	36.505	36.505	393	18.00	36.491	36.491																
465*	5.40	35.022	35.022	483*	5.74	35.022	35.022	409	17.41	36.400	36.400	486	17.54	36.415	36.415	492*	17.49	36.409	36.409																
565	4.93	35.020	35.020	580	4.90	35.020	35.020	472	7.50	35.082	35.700	503	16.11	36.148	36.148	590	16.46	36.238	36.238																
661	4.46	34.988	34.988	676*	4.66	34.988	34.988	540*	6.47	35.053	35.413	600*	14.15	35.854	35.854	688*	14.77	35.951	35.951																
758	4.24	34.988	34.988	774	4.32	34.988	34.988	608	5.57	35.030	35.132	777	12.09	35.558	35.558	786	13.06	35.689	35.689																
856*	4.15	34.998	34.998	870	4.15	34.998	34.998	679*	4.99	35.013	35.148	874*	9.86	35.284	35.284	885*	10.88	35.398	35.398																
890*	4.08	34.974	34.974	956*	4.04	34.977	34.977	747*	4.86	35.005	35.148	871*	9.70	35.271	35.271	1070*	7.13	35.091	35.091																
1074	3.90	34.972	34.972	1150	3.82	34.965	34.965	876	4.34	34.986	35.049	1067	6.25	35.065	35.065	1265	5.15	35.026	35.026																
1260*	3.78	34.966	34.966	1344*	3.74	34.965	34.965	1011*	4.11	34.984	35.026	1264*	4.87	35.023	35.023	1461*	4.42	35.000	35.000																
1448	3.67	34.965	34.965	1539	3.61	34.965	34.965	1156	3.97	34.974	34.985	1460	4.32	34.995	34.995	1657	4.10	34.984	34.984																
1637*	3.59	34.965	34.965	1735*	3.53	34.964	34.964	1309*	3.84	34.968	34.982	1656*	4.04	34.989	34.989	1852*	3.87	34.971	34.971																
1926	3.38	34.961	34.961	1933	3.44	34.963	34.963	1466	3.71	34.968	34.977	1950	3.71	34.971	34.971	2047	3.71	34.969	34.969																
2216*	3.13	34.954	34.954	2131*	3.30	34.968	34.968	1631*	3.65	34.969	34.977	2245*	3.51	34.967	34.967	2341*	3.52	34.965	34.965																
2329	3.10	34.954	34.954	2329	3.10	34.954	34.954	1799	3.54	34.965	34.965	2538	3.27	34.961	34.961	2638	3.30	34.962	34.962																
2626*	2.70	34.935	34.935	2626*	2.70	34.935	34.935	1969*	3.45	34.964	34.964	2829*	3.00	34.950	34.950	3031*	2.95	34.946	34.946																
---	---	---	---	---	---	---	---	2144	3.35	34.963	34.963	3315	2.42	34.920	34.920	3522	2.43	34.922	34.922																
---	---	---	---	---	---	---	---	2319*	3.23	34.960	34.960	3663*	2.23	---	---	---	---	---	---																

STATIONS 5262-5263				STATIONS 5292-5303			
DEPTH	T	S	o/oo	DEPTH	T	S	o/oo
m	oC			m	oC		
1	18.47	33.891	33.530	1	23.41	36.328	36.328
23	16.75	34.736	---	25	23.39	36.325	36.325
46	12.12	34.518	34.888	49	22.81	36.410	36.410
93*	13.50	35.666	35.538	98*	20.89	36.576	36.576
186	10.34	35.330	35.629	197	18.93	36.570	36.570
280*	8.03	35.119	35.194	292*	18.26	36.515	36.515
375	6.30	35.047	35.071	389	18.09	36.521	36.521
465*	5.40	35.022	35.022	487*	17.87	36.491	36.491
565	4.93	35.020	35.020	584	17.03	36.344	36.344
661	4.46	34.988	34.988	681*	15.92	35.798	35.798
758	4.24	34.988	34.988	779	13.82	35.689	35.689
856*	4.15	34.998	34.998	876*	11.52	35.469	35.469
890*	4.08	34.974	34.974	990*	8.96	35.147	35.147
1074	3.90	34.972	34.972	1173	6.02	35.060	35.060
1260*	3.78	34.966	34.966	1357*	4.84	35.026	35.026
1448	3.67	34.965	34.965	1631	4.18	34.993	34.993
1637*	3.59	34.965	34.965	1907*	3.83	34.964	34.964
1926	3.38	34.961	34.961	2186	3.67	34.970	34.970
2216*	3.13	34.954	34.954	2467*	3.49	34.968	34.968
2329	3.10	34.954	34.954	2754	3.23	34.964	34.964
2626*	2.70	34.935	34.935	3046*	2.92	34.940	34.940
---	---	---	---	3430	2.52	34.930	34.930
---	---	---	---	3913*	2.24	34.909	34.909







LAT. 42° 19'N	LAT. 42° 08'N	LAT. 42° 00'N	LAT. 41° 49'N	LAT. 41° 37'N	LAT. 41° 19'N	LAT. 41° 07'N	LAT. 40° 48'N
LONG. 50° 39'W	LONG. 50° 33'W	LONG. 50° 28'W	LONG. 50° 24'W	LONG. 50° 28'W	LONG. 50° 31'W	LONG. 50° 31'W	LONG. 50° 29'W
DEPTH 2750 m	DEPTH 3090 m	DEPTH 3460 m	DEPTH 3730 m	DEPTH ----- m	DEPTH 3530 m	DEPTH 4260 m	DEPTH 3976 m
GMT 1934	GMT 2330	GMT 0333	GMT 0817	GMT 1340	GMT 2013	GMT 0407	GMT 1503
DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m
T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C
S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo
1	1	1	1	1	1	1	1
9.31	8.16	8.63	10.07	16.82	17.85	18.39	18.60
33.566	33.329	33.635	33.001	34.915	35.632	35.823	35.856
24	23	24	24	24	22	21	21
33.555	33.357	33.638	33.434	35.304	35.636	35.832	35.873
48	46	48	49	48	44	43	43
33.661	33.378	33.628	35.219	36.152	35.812	35.812	35.898
96*	91*	98*	97*	95*	88*	86*	86*
34.092	34.139	34.655	35.468	36.152	35.637	35.840	35.962
144	137	147	145	143	132	129	129
34.453	34.572	34.337	35.434	35.990	36.206	36.333	36.256
183*	183*	196*	193*	191*	176*	174*	174*
34.685	34.656	34.622	35.286	35.822	36.085	36.284	36.214
288	275	294	290	286	263	263	263
34.762	34.988	34.803	34.966	35.435	35.766	35.740	35.539
384*	368*	392*	386*	381*	351*	351*	35.539
34.812	35.032	34.506	35.174	35.070	35.572	35.579	35.269
479	461	489	483	477	441	449	449
34.822	34.979	34.979	34.890	35.070	35.294	35.074	35.043
554*	554*	587*	578*	578*	532*	544*	7.90
34.841	34.841	34.969	34.933	34.660	35.184	35.074	35.043
649	649	685	674	660	626	639	648
34.861	34.861	34.957	34.941	34.838	35.109	35.015	34.984
743*	743*	783*	770*	764*	721*	735*	6.26
34.864	34.864	34.957	34.976	34.842	35.042	35.016	34.939
835	835	881	865	860	817	832	832
34.876	34.942	34.942	34.865	34.902	35.023	35.027	35.017
931*	931*	979*	960*	956*	915*	929*	929*
34.972	34.972	34.941	34.960	34.912	35.018	35.010	35.013
3.88	3.88	3.76	3.90	3.96	5.15	4.70	4.65
34.963	34.963	34.933	34.954	34.943	35.048	35.026	35.016
969*	1000	1252*	1184*	1184*	1180	1154	1154
34.880	34.963	34.933	34.941	34.952	1374	1374	1374
1255	1255	1448*	1448*	1564*	1274*	1368*	1368*
34.887	34.968	34.938	34.949	34.923	1486	1649	1649
1448*	1448*	1633*	1633*	1754	1486	1939*	1939*
3.46	3.46	3.54	3.54	3.74	3.98	3.79	3.70
34.899	34.958	34.951	34.935	34.944	3.98	34.978	34.951
1642	1642	1714*	1714*	1850*	1660*	1814*	1814*
3.45	3.45	3.52	3.48	3.57	3.65	3.66	3.66
34.902	34.961	34.953	34.926	34.944	3.65	34.974	34.974
1835*	1835*	1907*	1841	1945*	1850	2100	2100
3.49	3.49	3.39	3.38	3.58	3.51	3.44	3.48
34.921	34.960	34.957	34.966	34.968	3.51	34.961	34.970
2031	2031	2084*	2042	2132	2139*	2500*	2500*
3.46	3.46	3.26	3.26	3.48	3.48	3.28	3.28
34.940	34.961	34.961	34.946	34.986	3.48	34.958	34.958
2226*	2226*	2172*	2255	2426*	2431	2877	2877
3.23	3.23	3.11	3.11	3.27	3.03	34.950	34.950
34.943	34.943	34.953	34.964	34.960	3.11	34.948	34.948
2423	2423	2303	2586*	2726*	2726*	3258*	3258*
2.93	2.93	2.94	3.13	2.97	3.11	2.72	2.61
34.953	34.955	34.953	34.963	34.943	3.02*	34.940	34.931
2457*	2457*	2429*	2922	3496	3018	3744	3619
2.53	2.53	2.74	2.91	2.67	2.90	2.40	2.34
34.932	34.942	34.942	34.935	34.942	3311*	4234*	3976*
2645	2645	2618	3263*	3496*	2.55	34.926	34.905
2922*	2922*	2815*	3990*	3990*	2.30	34.926	34.905
2.38	2.38	2.76	2.57	2.30	2.55	2.25	2.25
34.930?	34.930?	34.945	34.935?	34.923?	34.923?	34.906?	34.886

STATION # 5429	STATION # 5430	STATION # 5431	STATION # 5432	STATION # 5433	STATION # 5434	STATION # 5435	STATION # 5436
DATE 14 XI 56	DATE 15 XI 56	DATE 15 XI 56	DATE 15 XI 56	DATE 15 XI 56	DATE 16 XI 56	DATE 16 XI 56	DATE 16 XI 56
LAT. 40° 32'N	LAT. 40° 14'N	LAT. 40° 00'N	LAT. 39° 37'N	LAT. 39° 18'N	LAT. 38° 59'N	LAT. 38° 49'N	LAT. 38° 34'N
LONG. 50° 31'W	LONG. 50° 32'W	LONG. 50° 28'W	LONG. 50° 37'W	LONG. 50° 26'W	LONG. 50° 25'W	LONG. 50° 18'W	LONG. 50° 24'W
DEPTH 3880 m	DEPTH 4690 m	DEPTH 5400 m	DEPTH 5390 m	DEPTH 5400 m	DEPTH 5400 m	DEPTH 5400 m	DEPTH 5400 m
GMT 2019	GMT 0118	GMT 0640	GMT 1248	GMT 1910	GMT 0212	GMT 0813	GMT 1530
DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m
T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C
S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo
1	1	1	1	1	1	1	1
18.97	18.14	18.23	17.69	18.11	19.31	20.11	21.10
35.856	35.992	35.424	35.177	35.414	35.946	35.920	36.203
45	42	45	40	49	48	46	42
35.842	35.930	35.515	35.102	35.422	36.063	35.936	36.200
90	83	91	79	97	92	92	83
36.091	35.902	35.636	35.217	35.677	36.106	35.736	36.203
135*	124*	137*	117*	146*	180*	183	163*
36.125	35.867	35.499	34.840	35.580	36.036	36.084	36.004
166	184	184	156	194	283	273	240
36.005	35.823	35.361	35.037	35.458	35.727	35.946	35.864
270*	270*	279*	232*	292*	374*	361*	314*
13.42	13.14	13.42	8.15	10.33	11.18	13.12	14.71
35.678	35.658	34.972	34.839	35.215	35.423	35.606	35.863
360	330	376	306	389	448	448	384
35.370	35.446	34.955	34.910	34.924	35.192	35.237	35.599
451*	412*	475*	380*	486*	534*	534*	451*
8.99	9.39	6.27	6.51	6.28	7.44	8.71	12.21
35.165	35.220	34.980	34.980	34.978	35.081	35.504	35.504
542	485	572	455	584	644	620	516
34.964	35.050	35.024	35.013	35.045	35.045	35.117	35.235
6.93	7.57	5.70	6.18	5.81	6.31	7.85	10.32
34.997	35.032	35.031	35.047	35.033	35.045	35.045	35.235
5.93	6.27	5.20	5.69	5.35	5.64	6.66	8.28
34.997	35.014	35.014	35.064	35.064	34.957	35.024	35.106
730	766	766	604	777	821	794	642
35.014	35.027	35.036	35.048	35.048	34.926	35.059	35.059
5.12	5.06	4.60	5.02	4.68	4.29	4.85	7.23
35.055	35.043	35.022	35.048	35.028	34.926	34.930	35.025
826*	851	963	764	971	1097	1064	870
35.030	35.033	35.008	35.031	35.011	35.002	34.885	35.025
4.79	4.77	4.39	4.72	4.42	4.39	3.93	5.57
1019*	947*	4.52?	852*	4.20	4.06	4.27	4.68
35.013	35.007	34.991	34.989	34.997	34.977	34.986	34.995
4.46	4.29	4.14	4.20	4.21	4.06	4.27	4.68
34.990	35.002	34.982	34.989	34.979	34.957	34.982	34.966
4.22	4.29	4.11	4.21	4.01	3.79	4.10	4.20
34.965	34.983	34.960	34.978	34.978	34.966	34.982	34.966
1252	1252	1298	1277	1425	1464*	1586	1433
34.965	34.983	34.963	34.978	34.978	34.944	34.965	34.966
1519*	1440*	1519*	1559*	1716*	1914*	1859*	1688*
3.74	3.80	3.80	3.68	3.70	3.56	3.84	3.84
34.959	34.963	34.963	34.958	34.977	34.952	34.951	34.956
3.66	3.65	3.65	3.72	3.50	3.44	3.64	3.64
34.957	34.968	34.968	34.968	34.973	34.957	34.958	34.961
2016*	2016*	2016*	2423*	2492*	2576*	2523*	2378*
3.55	3.47	3.47	3.24	3.25	3.26	3.26	3.40
34.958	34.958	34.972	34.956	34.966	34.953	34.947	34.958
3.55	3.47	3.30	3.496	3.496	2.99	2.73	3.18
34.957	34.957	34.953	34.949	34.956	34.939	34.936	34.952
2397	2397	2844	2914	2973	2960	2733	2607
3.21	3.21	2.95	2.95	2.95	2.99	2.73	3.18
34.957	34.957	34.953	34.949	34.956	34.939	34.936	34.952
3.39	3.39	3.18*	3.18*	3.456*	3.456*	3.298*	2.87
34.949	34.949	34.928	34.928	34.928	34.922	34.929	34.938
2459*	2459*	3800	3408*	3456*	3446*	3797	2.55
3.179	3.179	2.60	3.03	2.58	2.40	3.4912	34.919
34.928	34.928	34.912	34.912	34.905	34.905	34.902	34.904
2755	2755	4287*	4398*	4423*	4444*	4294*	4092*
2.71	2.71	2.35	2.31	2.20	2.31	2.34	2.36
34.935	34.935	34.912	34.904	34.894	34.894	34.898	34.904
3674*	3674*	4162	4775	4881	4775	4550	4550
2.20	2.20	2.25	2.28	2.28	2.30	2.32	2.32
34.923	34.899	34.899	34.892	34.892	34.882	34.894	34.896
4657*	4657*	5261*	5359*	5390*	5390*	5015*	34.890
2.20	2.20	2.24	2.30	2.24	2.30	2.31	2.31
34.910?	34.910?	34.893	34.899	34.880	34.888	34.886	34.890

STATION # 5429	STATION # 5430	STATION # 5431	STATION # 5432	STATION # 5433	STATION # 5434	STATION # 5435	STATION # 5436
DATE 14 XI 56	DATE 15 XI 56	DATE 15 XI 56	DATE 15 XI 56	DATE 15 XI			







LAT. 21° 58'N	LAT. 20° 46'N	LAT. 19° 39'N	LAT. 18° 27'N	LAT. 17° 20'N	LAT. 16° 07'N	LAT. 14° 58'N	LAT. 13° 49'N
LONG. 50° 30'W	LONG. 50° 33'W	LONG. 50° 32'W	LONG. 50° 32'W	LONG. 50° 32'W	LONG. 50° 28'W	LONG. 50° 27'W	LONG. 50° 28'W
DEPTH 4720 m	DEPTH 4930 m	DEPTH 4320 m	DEPTH 5006 m	DEPTH 4510 m	DEPTH 3700 m	DEPTH 4410 m	DEPTH 5140 m
GMT 0508	GMT 1715	GMT 0505	GMT 1658	GMT 0426	GMT 1657	GMT 0413	GMT 1550
DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S
m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo
1 26.03 36.891	1 26.47 36.782	1 26.38 36.819	1 26.55 36.554	1 25.81 36.768	1 26.79 36.431	1 26.49 35.158	1 27.13 34.165
49 26.06 36.878	49 26.44 36.812	49 26.44 36.812	48 26.42 36.558	49 25.76 36.779	48 26.42 36.558	48 26.64 36.460	48 26.85 36.304
98 24.51 37.105	97 24.21 37.139	98 24.52 37.156	97 24.43 37.035	98 21.74 36.974	98 23.68 36.967	97 23.98 36.614	97 20.97 36.764
147* 22.81 37.113	146* 21.14 36.908	147 21.76 36.988	145* 21.72 37.032	146* 19.24 36.717	147* 20.63 36.923	145* 18.54 36.370?	146* 18.15 36.515
196 20.33 36.862	194 19.20 36.670	196 19.25 36.714	193 18.92 36.877	195 17.23 36.390	195 18.74 36.643	194 14.72 35.870	194 14.80 35.867
294* 17.61 36.454	291* 17.48 36.414	294* 17.14 36.371	290* 15.77 36.143	293* 14.61 35.949	294* 15.35 36.066	291* 12.22 35.496	291* 11.29 35.238
393 15.70 36.144	393 16.01 36.184	391 14.96 36.011	388 13.27 35.734	388 12.18 35.565	388 10.31 35.221	388 10.31 35.148	388 10.33 35.148
491* 13.50 35.816	486* 13.96 35.861	486* 13.11 35.752	486* 11.12 35.410	488* 10.31 35.295	492* 9.41 35.116	486* 8.93 35.034	487* 9.23 35.034
589 11.93 35.611	583 11.93 35.584	586 11.19 35.487	584 9.72 35.212	585 8.22 34.991	589 7.93 34.906	584 7.66 34.866	584 8.36 34.844
687 --- 35.398	680* 9.83 35.321	684 9.26 35.247	683* 8.52 35.070	683* 6.99 34.915	687* 6.81 34.785	680* 6.74 34.770	681* 7.61 34.886
786 8.10 35.117	777 8.09 35.098	778 7.36 34.998	778 7.28 34.950	780 6.17 34.771	785 6.01 34.772	778 6.29 34.766	778 6.52 34.772
884* 6.69 34.960	874* 6.50 34.910	879* 6.40 34.902	868* 6.09 34.816	878* 5.67 34.763	874* 5.49 34.724	878* 5.66 34.724	875* 5.86 34.740
982 5.91 35.016	971 5.98 34.901	977 5.75 34.879	966 5.78 34.838	975 5.38 34.791	981 5.34 34.776	971 5.50 34.787	971 5.44 34.763
1178* 5.26 34.954	1165* 5.30 34.966	1174* 5.25 34.950	1162* 5.37 34.929	1170* 5.13 34.928	1177* 5.05 34.949	1166* 5.16 34.902	1164* 5.08 34.879
1367* 4.84 35.004	1359* 4.71 35.015	1369* 4.72 35.003	1399* 4.71 34.989	1372* 4.76 34.990	1323* 4.69 34.995	1351* 4.84 34.969	1362* 4.71 34.976
1582 4.39 35.021	1549 4.33 35.018	1585 4.30 35.015	1591 4.30 35.000	1666 4.09 34.993	1519 4.23 35.000	1641 4.12 34.993	1557 4.26 34.996
1753* 4.06 35.019	1741* 4.01 35.010	1761* 3.51 35.007	1878* 3.78 34.994	1813 3.73 34.986	1813 3.73 34.986	1930* 3.61 34.976	1849* 3.71 34.980
1948 3.81 35.016	2033 3.54 34.995	1956 3.63 34.998	2167 3.34 34.975	2154 3.35 34.978	2107 3.20 34.972	2125 3.28 34.965	2141 3.35 34.970
2240* 3.31 34.985	2233* 3.17 34.972	2249* 3.20 34.972	2455* 3.05 34.957	2350* 3.13 34.957	2402* 3.04 34.959	2321* 3.13 34.956	2433* 3.13 34.955
2532 3.03 34.965	2710 2.85 34.948	2540 2.95 34.960	2745 2.85 34.943	2543 2.99 34.948	2695 2.85 34.944	2517 3.00 34.959	2822 2.81 34.937
2922* 2.80 34.944	3099* 2.66 34.927	2830* 2.79 34.940	3133* 2.67 34.928	2989* 2.71 34.922	2989* 2.71 34.922	2809* 2.80 34.936	3211* 2.85 34.926
3315 2.60 34.928	3488 2.42 34.906	3126 2.44 34.925	3526 2.48 34.911	3234 2.61 34.922	3283 2.61 34.921	3104 2.67 34.929	3600 2.45 34.907
3805* 2.32 34.903	3981* 2.23 34.886	3520* 2.44 34.908	4017* 2.20 34.888	3617* 2.42 34.904	3675* 2.39 34.906	3496 2.50 34.911	4087* 2.29 34.895
4299 2.20 34.885	4471 2.17 34.877	3912 2.22 34.884	4511 2.13 34.874	4010 2.25 34.880	4501* 2.11 34.865	3888 2.30 34.890	4573 1.87 34.845
		4310* 2.12 34.877	5006* --- 34.850	4501* 2.11 34.865		4378* 1.94 34.852	5060* 1.81 34.821

STATION # 5461	STATION # 5462	STATION # 5463	STATION # 5464	STATION # 5465	STATION # 5466	STATION # 5467	STATION # 5468
DATE 29 XI 56	DATE 29 XI 56	DATE 30 XI 56	DATE 30 XI 56	DATE 1 XII 56	DATE 1 XII 56	DATE 1 XII 56	DATE 1 XII 56
LAT. 12° 38'N	LAT. 11° 27'N	LAT. 10° 17'N	LAT. 09° 35'N	LAT. 8° 56'N	LAT. 8° 29'N	LAT. 8° 08'N	LAT. 7° 50'N
LONG. 50° 31'W	LONG. 50° 34'W	LONG. 50° 31'W	LONG. 51° 14'W	LONG. 51° 53'W	LONG. 52° 23'W	LONG. 52° 41'W	LONG. 52° 54'W
DEPTH 4830 m	DEPTH 5010 m	DEPTH 4920 m	DEPTH 4820 m	DEPTH 4729 m	DEPTH 4080 m	DEPTH 1250 m	DEPTH 1250 m
GMT 0359	GMT 1558	GMT 0351	GMT 1431	GMT 0023	GMT 0809	GMT 1314	GMT 1759
DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S
m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo
1 26.92 34.063	1 27.65 34.179	1 27.27 33.666	1 27.58 33.718	1 27.46 35.307	1 27.82 35.364	1 27.83 35.448	1 27.81 35.462
49 26.90 36.553	49 26.49 36.150	45 27.20 36.282	46 26.43 36.255	47 26.15 36.057	45 28.16 35.614	39 27.44 35.690	40 27.63 35.957
98 21.63 36.747	97 20.39 36.652	90 20.37 36.749	91 20.51 36.515	94 19.20 36.347	91 23.22 36.537	79 25.80 36.159	79 25.83 36.172
147* 17.82 36.401	146* 15.93 36.052	135* 15.38 35.976	137* 14.85 36.788?	142* 14.25 35.712	137* 16.28 35.995	119 21.13 36.426	117* 23.32 36.324
196 14.26 35.754	195 13.66 35.698	180 12.55 35.449	182 11.75 35.292	190 11.42 35.279	184 12.72 35.486	159 16.16 35.996	156 15.25 35.741
294* 11.00 35.195	294* 10.87 35.235	272* 9.81 34.979	273* 9.29 34.923	286* 8.89 34.876	278* 9.82 35.000	241* 10.61 35.118	194* 12.73 35.421
392 9.63 35.057	393 8.99 34.954	364 8.61 34.861	363 7.63 34.711	382 7.98 34.790	372 8.53 34.857	324 8.77 34.856	271 10.18 35.056
490* 8.94 35.000	492* 7.67 34.790	492* 7.43 34.742	484* 6.83 34.651	478* 6.29 34.618	468* 7.34 34.729	408* 7.38 34.686	350* 8.70 34.860
588 7.88 34.885	591 6.92 34.723	553 6.82 34.680	544 6.38 34.649	573 5.61 34.540	563 6.41 34.647	492 6.70 34.629	434 7.74 34.750
690* 6.95 34.828	690* 6.01 34.666	648* 6.16 34.652	634* 5.92 34.651	668* 5.28 34.525	658* 5.84 34.567	576 6.43 34.608	478* 7.16 34.691
784 6.13 34.768	881* 5.60 34.667	742 5.51 34.638	726 5.55 34.666	762 5.21 34.556	752 5.27 34.588	662 5.61 34.588	609 6.20 34.622
885* 5.10 34.763	837* 5.12 34.641	837* 5.12 34.641	857* 5.09 34.661	857* 4.90 34.578	846* 5.03 34.650	749* 5.17 34.587	788 5.19 34.549
979 5.31 34.741	983 4.97 34.756	933 5.02 34.706	908 4.91 34.723	952 4.79 34.644	941 4.94 34.707	837 5.08 34.637	966 4.82 34.714
1173* 4.96 34.911	1179* 4.89 34.945	1123* 4.86 34.862	1092* 4.83 34.868	1145* 4.84 34.864	1132* 4.91 34.895	1024* 4.87 34.816	1054* 4.87 34.892
1393* 4.58 34.990	1369* 4.49 34.994	1289* 4.65 34.964	1182* 4.74 34.953	1339* 4.68 34.983	1310* 4.72 34.984	1302* 4.54 34.994	1486 4.16 34.999
1582 4.17 34.994	1565 4.07 34.996	1571 4.14 35.004	1421 4.20 35.001	1533 4.31 35.006	1587 4.15 35.004	1496 4.16 34.999	1557 4.26 34.996
1770* 3.77 34.982	1858* 3.60 34.976	1854* 3.63 34.974	1672* 3.82 34.980	1823* 3.83 34.992	1868* 3.66 34.986	1692* 3.83 34.990	1849* 3.71 34.980
2056* 3.42 34.967	2249 3.21 34.961	2234 3.28 34.964	2020 3.55 34.977	2119 3.50 34.977	2237 3.17 34.966	1886 3.58 34.985	2141 3.35 34.970
2342 3.16 34.964	2640* 2.93 34.948	2617* 3.02 34.954	2382* 3.27 34.961	2507* 3.04 34.959	2699* 2.79 34.947	2079* 3.40 35.014?	2433* 3.13 34.955
2632 2.94 34.945	3130 2.68 34.925	2998 2.82 34.938	2849 2.97 34.950	2895 2.75 34.941	3167 2.54 34.928	2270 3.19 34.964	2822 2.73 34.928
2922* 2.73 34.928	248 2.48 34.916	3478* 2.55 34.917	3322* 2.62 34.928	2895 2.75 34.941	3167 2.54 34.928	2463* 3.04 34.961	3211* 2.85 34.926
3309 2.56 34.925	4108 2.31 34.900	3961 2.34 34.902	3802 2.38 34.917	3868 2.31 34.909	3641* 2.33 34.916		
3796* 2.33 34.901	4602* 2.07 34.866	4453* 2.13 34.878	4280* 2.30 34.899	4360* 2.21 34.889	4029* 2.24 34.903		
4285 2.19 34.889	4885 1.73 34.826	4740 1.76 34.830	4563 2.19 34.888	4656 1.76 34.833			
4770* 1.81 34.835	4891* 1.69 34.817	4838* 1.70 34.822	4654* 2.13 34.874	4729* 1.67 34.815			



STATION # 5469  
DATE 1 XII 56  
LAT. 7° 29'N  
LONG. 53° 09'W  
DEPTH 770 m  
GMT 2126

DEPTH m	T °C	S ‰
1	27.67	35.474
19	27.45	35.988
37	26.79	36.119
73*	25.95	36.176
108	24.04	36.224
143*	20.70	36.056?
212	12.43	35.407
281*	9.66	34.970
353	8.32	34.803
429*	7.54	34.706
512	6.59	34.645
598*	5.84	34.589

STATION # 5470  
DATE 2 XII 56  
LAT. 7° 15'N  
LONG. 53° 22'W  
DEPTH 245 m  
GMT 0013

DEPTH m	T °C	S ‰
1	27.75	35.692
21	27.18	36.039
41	26.50	36.135
62*	26.08	36.172
83	25.19	36.203
126*	22.99	36.164
169	14.38	35.745
213*	11.04	35.162

STATION # 5471  
DATE 2 XII 56  
LAT. 7° 09'N  
LONG. 53° 28'W  
DEPTH 144 m  
GMT 0140

DEPTH m	T °C	S ‰
1	27.83	35.875
23	27.07	36.070
47	26.36	36.169
70*	25.57	36.187
93	24.84	36.205
116*	22.78	36.149
140*	16.12	35.968

STATION # 5564  
DATE 22 IV 57  
LAT. 32° 15'N  
LONG. 64° 30'W  
DEPTH 2979  
GMT 2161

DEPTH m	T °C	S ‰
1	20.96	36.735
48	20.53	36.712
95	20.15	36.673
190	18.45	36.527
286*	17.92	36.474
382	17.56	36.418
478	16.74	36.279
574*	15.35	36.048
671	13.54	35.769
770	10.93	35.412
868	---	35.239
967	7.38	35.126
1067	6.17	35.081
1167*	5.52	35.134?
1345*	4.64	35.031
1445	4.44	35.032
1542	4.19	35.004
1641*	4.03	34.994
1739	3.90	34.988
1836	3.72	34.987
2134*	3.56	34.981
2333	3.33	34.971
2532*	3.19	34.965
2733	3.01	34.957
2934*	2.82	34.946

STATION # 5472  
DATE 2 XII 56  
LAT. 7° 09'N  
LONG. 53° 22'W  
DEPTH 245 m  
GMT 0013

DEPTH m	T °C	S ‰
1	27.75	35.692
21	27.18	36.039
41	26.50	36.135
62*	26.08	36.172
83	25.19	36.203
126*	22.99	36.164
169	14.38	35.745
213*	11.04	35.162

STATION # 5471  
DATE 2 XII 56  
LAT. 7° 09'N  
LONG. 53° 28'W  
DEPTH 144 m  
GMT 0140

DEPTH m	T °C	S ‰
1	27.83	35.875
23	27.07	36.070
47	26.36	36.169
70*	25.57	36.187
93	24.84	36.205
116*	22.78	36.149
140*	16.12	35.968

STATION # 5564  
DATE 22 IV 57  
LAT. 32° 15'N  
LONG. 64° 30'W  
DEPTH 2979  
GMT 2161

DEPTH m	T °C	S ‰
1	20.96	36.735
48	20.53	36.712
95	20.15	36.673
190	18.45	36.527
286*	17.92	36.474
382	17.56	36.418
478	16.74	36.279
574*	15.35	36.048
671	13.54	35.769
770	10.93	35.412
868	---	35.239
967	7.38	35.126
1067	6.17	35.081
1167*	5.52	35.134?
1345*	4.64	35.031
1445	4.44	35.032
1542	4.19	35.004
1641*	4.03	34.994
1739	3.90	34.988
1836	3.72	34.987
2134*	3.56	34.981
2333	3.33	34.971
2532*	3.19	34.965
2733	3.01	34.957
2934*	2.82	34.946

STATION # 5754  
DATE 12 II 59  
LAT. 28° 15'N  
LONG. 43° 59'W  
DEPTH 3070 m  
GMT 1216 BT 184

DEPTH m	T °C	S ‰
1	21.01	36.656
50	21.01	36.656
100	18.63	36.528
200	17.66	36.434
300*	17.46	36.417
400	16.19	36.180
---	---	---
1380	4.69	35.122
1590*	3.72	35.021
1875	3.32	34.984
2170	3.12	34.964
2565	3.02	34.955
3020*	3.02	34.955

STATION # 5755  
DATE 12 II 59  
LAT. 28° 16'N  
LONG. 43° 04'W  
DEPTH 3027 m  
GMT 2043 BT 189

DEPTH m	T °C	S ‰
1	21.38	36.716
50	21.25	36.713
100	19.41	36.594
200	17.67	36.432
300*	17.23	36.370
400	16.01	36.164
495*	14.27	35.890
1390*	5.33	35.091
1590	4.83	35.174
1790*	4.29	35.144
2085	3.62	35.020
2385*	3.18	34.984
2680	2.94	34.949
2995*	2.81	34.944

STATION # 5756  
DATE 13 II 59  
LAT. 28° 16'N  
LONG. 41° 09'W  
DEPTH 3431 m  
GMT 1003 BT 201

DEPTH m	T °C	S ‰
1	21.34	36.976
50	21.27	36.980
100	21.04	36.967
200	17.90	36.518
295*	16.29	36.237
395	14.69	35.970
495*	13.08	35.736
595	11.58	35.560
695*	10.33	35.422
795	8.78	35.282
890*	7.88	35.214
990	7.11	35.188
1190*	6.26	35.211
1380*	5.62	35.191
1580	4.98	35.134
1775*	4.43	35.082
2075	3.70	35.010
2375*	3.27	34.973
2670	2.94	34.940
2970*	2.77	34.920
3260	2.63	34.911
3400*	2.60	34.899

STATION # 5757  
DATE 13 II, 14 II 59  
LAT. 28° 16'N  
LONG. 39° 18'W  
DEPTH 3890 m  
GMT 0103 BT 212

DEPTH m	T °C	S ‰
1	21.47	36.956
40	20.45	36.860
80	20.33	36.828
155	19.13	36.672
235	17.64	36.424
310	16.56	36.255
395*	15.23	36.032
475	14.05	35.869
555*	12.63	35.674
640	11.35	35.517
730*	10.00	35.388
860	7.80	35.172
1105*	6.12	35.076
1335*	5.59	35.124
1525	5.02	35.116
1720*	4.36	35.062
2015	3.80	35.018
2305*	3.40	34.971
2600	3.13	34.951
2895*	2.86	34.927
3140	2.65	34.904
3440	2.53	34.891
3890*	2.53	34.891

Mud in bottom bottle.

STATION # 5758  
DATE 14 II 59  
LAT. 28° 15'N  
LONG. 37° 11'W  
DEPTH 4160 m  
GMT 2037 BT 213

DEPTH m	T °C	S ‰
1	20.40	36.859
40	20.45	36.860
80	20.33	36.828
165	17.93	36.431
250*	17.45	36.371
335	16.57	36.263
420*	14.70	35.951
505	13.46	35.777
595*	12.36	35.706
685	11.31	35.526
770*	10.43	35.422
910	8.42	35.305
1150*	7.18	35.289
1250*	6.31	35.237
1420	5.65	35.201
1670*	4.77	35.120
1940	4.02	35.047
2210	3.56	34.997
2535	3.16	34.964
2935*	2.84	34.926
3310	2.65	34.906
3745*	2.51	34.888

STATION # 5759  
DATE 15 II 59  
LAT. 28° 16'N  
LONG. 35° 21'W  
DEPTH 5373 m  
GMT 1157 BT 224

DEPTH m	T °C	S ‰
1	20.27	36.758
50	20.16	36.765
100	19.97	36.765
195	18.01	36.507
295*	16.57	36.246
390	14.92	35.979
490*	13.61	35.799
590	11.91	35.570
685*	10.61	35.443
785	9.40	35.346
885*	8.14	35.244
980	7.27	35.154
1180*	6.66	35.197
1375*	6.04	35.257
1570	5.13	35.166
1870*	4.24	35.067
2165	3.68	34.996
2565*	3.08	34.945
2960	2.76	34.914
3360*	2.60	34.896
3755	2.50	34.880
4200*	2.46	34.874
4700	2.46	34.866
5305*	2.53	34.864

STATION # 5760  
DATE 16 II 59  
LAT. 28° 16'N  
LONG. 33° 28'W  
DEPTH 5065 m  
GMT 0511 BT 237

DEPTH m	T °C	S ‰
1	20.28	36.804
50	20.32	36.820
95	20.14	36.855
195	17.50	36.394
285*	16.34	36.212
385	14.65	35.934
480*	13.38	35.751
575	11.96	35.577
675*	10.84	35.461
770	9.80	35.359
870*	8.53	35.263
970	7.86	35.252
1170*	6.57	35.201
1100*	6.99	35.234
1290	6.25	35.230
1580*	5.16	35.157
1880	4.28	35.064
2180*	3.66	34.998
2660	3.02	34.929
3145*	2.69	34.895
3630	2.53	34.877
4120*	2.46	34.869
4620	2.43	34.856
4920*	2.45	34.852

STATION # 5761  
DATE 16 II 59  
LAT. 28° 15'N  
LONG. 31° 24'W  
DEPTH 4881 m  
GMT 2317 BT 251

DEPTH m	T °C	S ‰
1	20.53	36.939
50	20.54	36.942
100	20.54	36.942
195	17.72	36.411
295*	16.69	36.253
395	14.93	35.976
495*	13.69	35.794
590	12.23	35.603
690*	10.69	35.457
790	9.49	35.373
890*	8.18	35.257
990	7.55	35.266
1190*	6.97	35.318
1365*	6.02	35.270
1560	5.07	35.152
1855*	4.22	35.057
2150	3.60	35.000
2445*	3.19	34.947
2745	2.90	34.916
3140*	2.69	34.895
3530	2.55	34.877
3925*	2.48	34.870
4315	2.46	34.865
4810*	2.43	34.856



L.A.T. 28° 15'N L.O.N.G. 29° 30'W D.E.P.T.H. 4804 m G.M.T. 1600 BT 265				L.A.T. 28° 15'N L.O.N.G. 25° 32'W D.E.P.T.H. 5310 m G.M.T. 0432 BT 292				L.A.T. 28° 14'N L.O.N.G. 23° 29'W D.E.P.T.H. 5065 m G.M.T. 2314 BT 307				L.A.T. 28° 15'N L.O.N.G. 21° 30'W D.E.P.T.H. 4821 m G.M.T. 1507 BT 319				L.A.T. 28° 14'N L.O.N.G. 19° 28'W D.E.P.T.H. 4363 m G.M.T. 0738 BT 332				L.A.T. 28° 16'N L.O.N.G. 17° 48'W D.E.P.T.H. 2610 m G.M.T. 2113 BT 340				L.A.T. 28° 16'N L.O.N.G. 17° 30'W D.E.P.T.H. 891 m G.M.T. 0208 BT 342							
DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo				
m	°C			m	°C			m	°C			m	°C			m	°C			m	°C			m	°C			m	°C		
1	20.63	37.137	37.057	1	20.13	37.070	37.089	1	19.99	37.089	37.089	1	19.52	36.926	36.814	19.05	36.814	1	18.66	36.731	36.731	1	18.77	36.770	36.770						
50	20.58	37.132	37.057	45	20.03	37.073	37.082	45	20.03	37.082	37.082	50	19.27	36.907	36.815	19.10	36.815	50	18.59	36.720	36.720	50	18.83	36.763	36.763						
100	20.56	37.126	37.060	95	20.17	37.073	37.087	95	20.06	37.087	37.087	100	19.23	36.894	36.790	19.01	36.790	100	18.55	36.708	36.708	95	18.72	36.756	36.756						
195	17.67	36.538	36.567	190	17.33	36.438	36.470	190	17.22	36.470	36.470	195	16.23	36.319	36.270	16.12	36.270	200	16.29	36.282	36.282	195	15.95	36.268	36.268						
295*	15.94	36.220	36.180	280*	15.41	36.118	36.136	290*	15.43	36.136	36.136	290*	14.45	35.980	35.979	15.21	35.979	300	---	35.994	35.994	300	---	35.944	35.944						
395	14.28	35.936	35.920	375	14.13	35.906	35.906	385	14.01	35.906	35.906	390	13.16	35.800	35.760	13.20	35.760	395	12.93	35.772	35.772	390	12.93	35.772	35.772						
490	12.85	35.719	35.719	465*	12.68	35.706	35.706	485*	12.62	35.716	35.680	490*	12.27	35.680	35.648	12.11	35.648	495*	11.84	35.620	35.620	485*	11.73	35.614	35.614						
590	11.58	35.594	35.563	555	11.58	35.567	35.554	580	11.31	35.554	35.548	585	11.04	35.542	35.524	11.06	35.524	595	11.07	35.529	35.529	580	11.15	35.550	35.550						
685*	10.47	35.452	35.452	650*	10.57	35.455	35.458	680*	10.38	35.458	35.458	685*	10.08	35.448	35.415	9.92	35.415	695*	9.44	35.404	35.404	680*	10.32	35.451	35.451						
785	9.53	35.365	35.365	745	9.48	35.342	35.332	780	9.40	35.332	35.332	785	9.10	35.362	35.344	9.05	35.344	795	8.71	35.341	35.341	780	9.39	35.379	35.379						
880*	8.71	35.310	35.310	875*	8.75	35.318	35.318	880*	8.44	35.340	35.340	885*	8.05	35.258	35.288	8.05	35.288	895*	7.98	35.288	35.288	880*	8.65	35.304	35.304						
980	8.22	35.374	35.374	1130	7.19	35.255	35.255	1075	7.52	35.255	35.255	980	7.64	35.262	35.244	7.50	35.244	995	7.98	35.362	35.362	980	7.98	35.362	35.362						
1180*	6.95	35.322	35.322	1325*	6.54	35.291	35.291	1270*	6.78	35.354	35.354	1180*	7.05	35.330	35.307	7.03	35.307	1195*	7.13	35.386	35.386	1195*	7.13	35.386	35.386						
1340*	6.32	35.315	35.328	1455*	6.11	35.271	35.295	1435*	6.00	35.295	35.295	1455*	5.77	35.247	35.296	6.28	35.296	250*	15.26	36.127	36.127	250*	15.26	36.127	36.127						
1590	5.39	35.162	35.162	1730	4.87	35.143	35.204	1630	5.24	35.204	35.204	1650	4.95	35.164	35.172	5.04	35.172	350	13.81	35.894	35.894	350	13.81	35.894	35.894						
2020*	3.99	35.067	35.067	2015*	4.11	35.065	35.084	1920*	4.22	35.084	35.084	1845*	4.35	35.124	35.078	4.17	35.078	1195	7.00	35.438	35.438	1195	7.00	35.438	35.438						
2310	3.47	35.007	35.007	2165	3.48	34.996	35.036	2210	3.66	35.036	35.042	2295	3.75	35.042	35.026	3.62	35.026	1395	6.22	35.300	35.300	1395	6.22	35.300	35.300						
2605*	3.06	34.972	34.972	2460*	3.26	34.972	34.987	2680*	3.20	34.987	34.987	2730	3.30	34.989	34.978	3.18	34.978	1590*	5.32	35.224	35.224	1590*	5.32	35.224	35.224						
2900	2.80	34.939	34.939	2850	2.90	34.939	34.954	2900*	2.80	34.954	34.954	2925	2.96	34.963	34.949	2.84	34.949	1790	4.62	34.939	34.939	1790	4.62	34.939	34.939						
3190*	2.68	34.934	34.949	3240*	2.70	34.918	34.901	3055	2.74	34.924	34.924	3020*	2.72	34.924	34.914	2.62	34.914	1990*	3.94	35.093	35.093	1990*	3.94	35.093	35.093						
3585	2.56	34.914	34.889	3820	2.51	34.888	34.914	3290*	2.60	34.931	34.924	3440*	2.49	34.898	34.888	2.49	34.888	2190	3.94	35.062	35.062	2190	3.94	35.062	35.062						
3975*	2.38	34.889	34.889	4205*	2.46	34.884	34.902	3675	2.50	34.914	34.902	3795*	2.56	34.908	34.892	2.56	34.908	2390*	3.61	35.028	35.028	2390*	3.61	35.028	35.028						
4425	2.46	34.896	34.877	4690	2.43	34.876	34.896	4570	2.41	34.896	34.896	4280	2.40	34.893	34.882	2.44	34.882														
4725*	2.47	34.913	34.873	5190*	2.48	34.868	34.895	5065*	2.48	34.895	34.895																				

STATION # 5770 DATE 13 III 59 L.A.T. 12° 15'S L.O.N.G. 37° 33'W DEPTH 369 GMT 2318 BT 656				STATION # 5771 DATE 13-14 III 59 L.A.T. 12° 15'S L.O.N.G. 37° 24'W DEPTH 2028 GMT 0019 BT 656				STATION # 5772 DATE 14 III 59 L.A.T. 12° 14'S L.O.N.G. 37° 04'W DEPTH 2881 GMT 0600 BT 660				STATION # 5773 DATE 14 III 59 L.A.T. 12° 18'S L.O.N.G. 36° 12'W DEPTH 3920 GMT 1435 BT 666				STATION # 5774 DATE 15 III 59 L.A.T. 12° 18'S L.O.N.G. 34° 48'W DEPTH 4429 m GMT 0359 BT 676				STATION # 5775 DATE 15 III 59 L.A.T. 12° 16'S L.O.N.G. 33° 31'W DEPTH 3988 m GMT 1601 BT 686				STATION # 5776 DATE 16 III 59 L.A.T. 12° 15'S L.O.N.G. 31° 40'W DEPTH 4987 m GMT 0859 BT 699				STATION # 5777 DATE 16-17 III 59 L.A.T. 12° 16'S L.O.N.G. 30° 02'W DEPTH 5510 m GMT 0157 BT 712							
DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo	DEPTH	T	S	o/oo				
m	°C			m	°C			m	°C			m	°C			m	°C			m	°C			m	°C			m	°C			m	°C		
1	28.35	36.939	36.990	1	28.53	36.990	37.112	1	28.44	37.143	37.143	1	28.12	37.159	36.874	28.01	36.874	1	27.50	36.945	36.945	1	27.46	36.836	36.836										
70	23.88	37.106	37.077	50	26.17	37.077	37.092	50	27.73	37.091	37.094	50	26.90	36.935	36.935	26.90	36.935	50	27.42	37.010	37.010	50	27.07	36.788	36.788										
115	21.59	36.699	37.143	95	23.87	37.143	37.129	95	24.27	37.138	37.138	95	23.67	37.019	37.072	23.97	37.072	145	22.72	36.861	36.861	145	22.72	36.779	36.779										
165	17.24	35.903	35.785	185	16.63	35.785	36.332	190	19.19	36.227	36.227	195	17.64	35.948	35.990	17.89	35.990	235	14.82	35.455	35.455	235	14.82	35.740	35.740										
215*	14.52	35.448	35.188	275*	13.97	35.341	35.341	290*	12.49	35.133	35.088	290*	11.73	35.088	35.100	11.93	35.100	330*	10.78	34.978	34.978	330*	10.78	34.736	34.736										
265	14.15	35.388	34.929	370	10.75	34.929	34.938	385	8.55	34.726	34.705	390	8.46	34.705	34.701	8.56	34.701	420	7.64	34.620	34.620	420	7.64	34.488	34.488										
315*	13.99	35.384	34.633	460*	8.13	34.633	34.638	485*	6.48	34.543	34.503	485*	6.15	34.503	34.494	6.16	34.494	510*	6.05	34.482	34.482	510*	6.05	34.451	34.451										
				585	5.54	34.419	34.466	580	5.34	34.469	34.471	585	5.44	34.471	34.468	5.52	34.468	605	5.05	34.436	34.436	605	5.05	34.438	34.438										
				660*	4.60	34.419	34.466	660*	4.68	34.427	34.435	660*	4.70	34.435	34.421	4.68	34.421	700*	4.35	34.406	34.406	700*	4.35	34.438	34.438										
				790	4.22	34.384	34.378	760	4.11	34.451	34.438	775	4.15	34.438	34.422	4.25	34.422	795	3.67	34.374	34.374	795	3.67	34.493	34.493										
				890*	3.85	34.401	34.421	855*	3.75	34.421	34.466	870*	3.88	34.466	34.462	3.94	34.462	895*	3.52	34.392	34.392	895*	3.52	34.648	34.648										
				990	3.67	34.430	34.480	955	3.77	34.480	34.533	975	3.78	34.533	34.507	3.80	34.507	990	3.85	34.528	34.528	990	3.85	34.801	34.801										
				1185*	3.88	34.643	34.632	1150*	3.84	34.632	34.719	1175*	3.98	34.684	34.698	3.94	34.698	1185*	3.85	34.589	34.589	1185*	3.85	34.800	34.800										
				1280*	3.90	34.708	34.650	1385*	4.26	34.850	34.841	1325*	3.93	34.760	34.829	4.11	34.829	1285*	3.93	34.782	34.782	1285*	3.93	34.906	34.906										
				1370	4.04	34.796	34.928	1585	4.12	34.928	34.928	1520	4.17	34.910	34.918	4.07	34.918	1470	3.88	34.874	34.874	1470	3.88	34.944	34.944										
				1560*	4.12	34.913	34.959	1785*	3.82	34.962	34.962	1690*	3.82	34.959	34.942	3.73	34.942	1755*	3.60	34.874	34.874	1755*	3.60	34.934	34.934										
				1755	3.77	34.959	34.957	2075	3.47	34.957	34.957	1880</																							



STATION # 5778  
 DATE 17 III 59  
 LAT. 12° 13'S  
 LONG. 28° 16'W  
 DEPTH 5561 m  
 GMT 2005 BT 726

STATION # 5779  
 DATE 18 III 59  
 LAT. 14° 02'S  
 LONG. 28° 27'W  
 DEPTH 5119 m  
 GMT 1216 BT 739

STATION # 5780  
 DATE 19 III 59  
 LAT. 15° 49'S  
 LONG. 28° 40'W  
 DEPTH 5189 m  
 GMT 0434 BT 752

STATION # 5781  
 DATE 19 III 59  
 LAT. 18° 00'S  
 LONG. 29° 00'W  
 DEPTH 5077 m  
 GMT 2228 BT 766

STATION # 5782  
 DATE 20 III 59  
 LAT. 20° 15'S  
 LONG. 29° 18'W  
 DEPTH 4931 m  
 GMT 2249 BT 782

STATION # 5783  
 DATE 21 III 59  
 LAT. 20° 14'S  
 LONG. 30° 57'W  
 DEPTH 4537 m  
 GMT 1231 BT 791

STATION # 5784  
 DATE 22 III 59  
 LAT. 20° 17'S  
 LONG. 32° 46'W  
 DEPTH 4171 m  
 GMT 0325 BT 800

STATION # 5785  
 DATE 22 III 59  
 LAT. 20° 14'S  
 LONG. 34° 14'W  
 DEPTH 4162 m  
 GMT 1556 BT 810

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	27.64	36.843	1	28.08	37.491
50	27.18	36.823	50	27.31	37.451
100	23.80	36.883	100	22.77	36.904
150	17.86	35.982	150	18.36	36.076
185	17.55	35.951	200	18.36	36.076
285*	11.75	35.120	300*	14.18	35.355
395	9.16	34.776	400	11.50	34.986
470*	8.45	34.716	495*	8.91	34.694
370*	6.75	34.545	590	6.59	34.482
470*	5.54	34.471	690	5.08	34.391
755*	4.34	34.436	795	4.18	34.381
955	4.13	34.424	890*	3.67	34.422
1150*	3.88	34.662	990	3.42	34.474
1340	3.99	34.823	1190*	3.57	---
1535*	3.93	34.828	1380*	3.64	34.851
1575*	3.77	34.912	1590*	3.48	34.944
1770	3.49	34.923	1785	3.39	34.933
1995	3.20	34.930	2085*	3.16	34.944
2290*	2.96	34.925	2380	2.97	34.935
2360	2.84	34.903	2680*	2.83	34.929
2580	2.79	34.910	2975	2.73	34.924
2970	2.74	34.903	3275*	2.62	34.910
3355	2.52	34.889	3770*	2.41	34.898
3745*	2.11	34.889	4170*	1.87	34.844
3745*	2.11	34.862	4565	1.27	34.781
4140	1.32	34.787	4865*	0.55	34.700
4540*	0.89	34.739			
5045	0.70	34.711			

STATION # 5786  
 DATE 23 III 59  
 LAT. 20° 14'S  
 LONG. 35° 26'W  
 DEPTH 4114 m  
 GMT 0303 BT 818

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	28.39	37.261	1	27.65	37.002
45	27.15	37.226	45	23.81	36.914
95	24.17	37.083	95	20.59	36.443
195	19.91	36.390	195	16.19	35.710
290*	15.03	35.489	290*	13.70	35.312
390	12.02	35.050	390*	11.26	34.975
490*	9.87	34.795	485*	8.56	34.656
585	7.46	34.584	585	6.36	34.420
680*	5.56	34.409	680*	5.12	34.385
775	4.30	34.368	780	4.05	34.361
875*	3.76	34.384	875*	3.55	34.387
975	3.44	34.425	970	3.28	34.414
1170*	3.52	34.611	1070	3.40	34.620
1335*	3.97	34.808	1265*	3.40	34.792
1625	3.88	34.937	1460	3.78	34.792
1915*	3.47	34.947	1645*	3.85	34.899
2210	3.19	34.937	1795	3.63	34.947
2505	2.97	34.930	1925*	3.43	34.880
2800	2.82	34.919			
3200*	2.58	34.906			
3600	1.84	34.835			
4005*	0.90	34.736			

STATION # 5787  
 DATE 23 III 59  
 LAT. 20° 14'S  
 LONG. 36° 50'W  
 DEPTH 2690 m  
 GMT 1449 BT 826

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	28.36	37.302	1	28.05	37.207
50	28.20	37.298	50	25.72	36.998
100	23.77	36.951	95	19.92	36.352
195	16.52	35.754	195	15.94	35.654
295*	13.84	35.316	290*	13.67	35.292
395	11.66	35.010	390	11.70	35.026
490*	9.87	34.795	485*	9.91	34.807
585	7.82	34.584	585	6.94	34.519
690*	6.32	34.450	680*	5.55	34.402
785	4.70	34.338	780	4.05	34.355
885*	3.92	34.359	875*	3.35	34.437
985	3.44	34.424	970	3.49	34.398
1185	3.32	34.525	1165	3.33	34.487
1000*	3.61	34.386	1370	3.43	34.623
1380*	3.51	34.668	1560*	3.66	34.743
1570	4.01	34.902	1755	3.83	34.867
1765*	3.72	34.954	1955	3.15	34.941
2150*	3.32	34.956			
2500	3.11	34.947			
2840	2.93	34.934			
3200*	2.58	34.906			
3600	1.84	34.835			
4005*	0.90	34.736			

STATION # 5788  
 DATE 23 III 59  
 LAT. 20° 15'S  
 LONG. 37° 50'W  
 DEPTH 1988 m  
 GMT 2340 BT 832

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	28.27	37.195	1	27.65	37.002
50	25.32	36.998	95	20.59	36.443
95	21.56	36.655	195	16.19	35.710
195	15.37	35.572	290*	13.67	35.292
290*	13.07	35.215	390	11.70	35.026
390	11.12	34.957	485*	9.91	34.807
490*	9.52	34.765	585	6.94	34.519
585	7.85	34.578	680*	5.55	34.402
690*	6.32	34.419	780	4.05	34.355
785	4.65	34.353	875*	3.35	34.437
885*	3.82	34.354	970	3.49	34.398
985	3.59	34.390	1165	3.33	34.487
1185	3.42	34.359	1370	3.43	34.623
1385	3.44	34.639	1560*	3.66	34.743
1585*	3.89	34.764	1755	3.83	34.867
1780	3.80	34.948	1955	3.15	34.941
1980	3.22	34.954			

STATION # 5789  
 DATE 24 III 59  
 LAT. 20° 15'S  
 LONG. 39° 39'W  
 DEPTH 1390 m  
 GMT 1708 BT 844

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	27.66	36.914	1	27.53	36.952
45	23.81	36.911	50	23.16	36.785
95	20.19	36.325	100*	17.86	35.932
190	14.71	35.474	150	15.83	35.617
285*	13.23	35.242	200*	14.37	35.405
380	11.62	35.001			
475*	9.42	34.751			
570	7.27	34.539			
665	5.34	34.375			
760	4.53	34.333			
855*	3.62	34.350			
950*	3.62	34.350			
1135	---	---			
1320*	3.35	34.584			

STATION # 5790  
 DATE 24 III 59  
 LAT. 20° 14'S  
 LONG. 38° 55'W  
 DEPTH 1988 m  
 GMT 1035 BT 839

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	27.65	37.002	1	28.08	37.491
95	20.59	36.443	50	27.96	37.452
195	16.19	35.710	95	23.61	36.936
290*	13.67	35.292	195	18.98	36.194
390	11.70	35.026	295	14.67	35.426
485*	9.91	34.807	390	11.82	35.034
585	6.94	34.519	490	9.41	34.754
680*	5.55	34.402	590	7.14	34.545
780	4.05	34.355	685*	5.36	34.420
875*	3.35	34.437	785	4.29	34.391
970	3.49	34.398	895*	3.46	34.475
1165	3.33	34.487	1180	3.52	34.651
1370	3.43	34.623	1380*	3.51	34.798
1560*	3.66	34.743			
1755	3.83	34.867			
1955	3.15	34.941			

STATION # 5791  
 DATE 24 III 59  
 LAT. 20° 15'S  
 LONG. 39° 39'W  
 DEPTH 188 m  
 GMT 1853 BT 845

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	27.53	36.952	1	28.09	37.506
50	23.16	36.785	50	27.31	37.451
100*	17.86	35.932	100	22.77	36.904
150	15.83	35.617	200	18.36	36.076
200*	14.37	35.405	300*	14.18	35.355
295	15.06	35.547	400	11.50	34.986
385*	12.90	35.217	495*	8.91	34.694
495	10.58	34.897	590	6.59	34.482
595*	8.28	34.637	690	5.08	34.391
695	6.24	34.455	795	4.18	34.381
795*	4.83	34.359	890*	3.67	34.422
895*	4.02	34.362	990	3.42	34.474
1095*	3.34	34.459	1190*	3.57	---
1290*	3.27	34.611	1380*	3.91	34.851
1490	3.77	34.811	1575	3.78	34.935
1680	3.72	34.801	1770*	3.53	34.952
1890*	3.63	34.953	1970	3.06	34.936
2085	3.38	34.953	2290	2.96	34.932
2285*	3.05	34.936	2590	2.74	34.919
2480	2.83	34.930	2890	2.60	34.909
2765*	2.47	34.805	3285*	2.26	34.876

STATION # 5792  
 DATE 24 III 59  
 LAT. 20° 16'S  
 LONG. 39° 48'W  
 DEPTH 188 m  
 GMT 1853 BT 845

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	27.53	36.952	1	28.25	37.469
50	23.16	36.785	50	26.53	37.170
100*	17.86	35.932	100	23.21	36.914
150	15.83	35.617	195	18.28	36.067
200*	14.37	35.405	295*	14.13	35.336
295	15.06	35.547	395	11.58	34.990
385*	12.90	35.217	495*	8.91	34.694
495	10.58	34.897	590	6.59	34.482
595*	8.28	34.637	690	5.08	34.391
695	6.24	34.455	795	4.18	34.381
795*	4.83	34.359	890*	3.67	34.422
895*	4.02	34.362	990	3.42	34.474
1095*	3.34	34.459	1190*	3.57	---
1290*	3.27	34.611	1380*	3.91	34.851
1490	3.77	34.811	1575	3.78	34.935
1680	3.72	34.801	1770*	3.53	34.952
1890*	3.63	34.953	1970	3.06	34.936
2085	3.38	34.953	2290	2.96	34.932
2285*	3.05	34.936	2590	2.74	34.919
2480	2.83	34.930	2890	2.60	34.909
2765*	2.47	34.805	3285*	2.26	34.876

STATION # 5793  
 DATE 5 IV 59  
 LAT. 23° 54'S  
 LONG. 40° 30'W  
 DEPTH 2765 m  
 GMT 0546 BT 879

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	26.82	37.086	1	28.71	37.097
50	26.26	37.111	50	26.10	36.999
100	23.38	36.821	100	23.24	36.955
150	20.39	36.428	195</		



STATION # 5802				STATION # 5803				STATION # 5804				STATION # 5805				STATION # 5806				STATION # 5807				STATION # 5808				STATION # 5809																							
DATE 13 IV 59				DATE 13 IV 59				DATE 13-14 IV 59				DATE 14 IV 59				DATE 26 IV 59				DATE 26 IV 59				DATE 26 IV 59				DATE 27 IV 59																							
LAT. 34° 48' W				LAT. 34° 58' S				LAT. 29° 59' S				LAT. 31° 02' S				LAT. 32° 04' S				LAT. 32° 31' S				LAT. 32° 32' S				LAT. 32° 33' S				LAT. 32° 29' S																			
LONG. 53° 46' W				LONG. 54° 14' W				LONG. 55° 00' W				LONG. 55° 35' W				LONG. 50° 16' W				LONG. 50° 08' W				LONG. 49° 32' W				LONG. 44° 42' W																							
DEPTH 38 m				DEPTH 40 m				DEPTH 29 m				DEPTH 18 m				DEPTH 235 m				DEPTH 933 m				DEPTH 1855 m				DEPTH 4151 m																							
GMT 1537 BT 1038				GMT 1912				GMT 0017				GMT 0442				GMT 0435 BT 1070				GMT 0556 BT 1071				GMT 1015 BT 1073				GMT 2151 BT 1087																							
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S					
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo	
1	26.84	37.021		1	27.52	37.066		1	24.40	36.401		1	23.86	35.603		1	22.48	36.483		1	22.65	34.407		1	18.06	33.100		1	18.97	30.725																					
50	26.05	36.999		50	24.15	36.126		50	23.96	35.917		50	23.96	35.917		50	22.53	36.533		45	24.39	36.587		25	18.46	33.591		10	17.68	32.749																					
95	21.84	36.585		100	22.65	36.684		95	20.32	36.144		95	18.34	35.808		100	21.73	36.557		100	19.35	36.153		45	15.40	33.835		20	16.68	33.293																					
195	17.09	35.866		200	18.00	36.016		190	15.55	35.600		195	15.46	35.631		200	17.68	36.045		185	14.98	35.536		70	12.84	33.782		30	16.15	33.489																					
290*	14.45	---		295*	14.65	---		280*	14.18	35.395		290*	13.99	35.420		300*	15.19	35.820		280*	13.07	35.258		90*	11.88	33.683		40	16.09	33.614																					
390	12.40	35.129		395	12.35	35.107		375	12.75	35.184		385	12.41	35.163		400	13.31	35.282		375	11.01	34.966		140	11.49	34.540		50	16.09	33.617																					
485*	10.36	34.853		495*	9.95	34.805		465*	10.93	34.937		485*	10.30	34.863		500*	11.36	34.996		470	7.66	34.551																													
585	8.10	34.615		595	7.74	34.575		560	9.10	34.711		580	7.78	34.544		595	9.01	34.681		560*	5.65	34.350																													
685*	5.98	34.426		695*	6.19	34.444		675*	6.19	34.399		680*	6.19	34.399		695*	6.93	34.883		655*	4.22	34.208																													
780	4.69	34.350		795	4.88	34.357		745*	5.31	34.339		750	4.91	34.294		795	5.76	34.375		750	3.74	34.202																													
880*	3.58	34.409		895*	3.48	34.393		1125	3.16	34.385		875*	4.14	34.270		895	4.99	34.326		845*	3.28	34.188																													
1175*	3.18	34.522		1195	3.24	34.539		1320*	2.95	34.525		975*	3.70	34.296		995	4.45	34.300		1035*	2.93	34.230																													
1375*	3.63	34.750		1395	3.46	34.703		1515*	2.85	34.605		1175*	3.10	34.383		1195	3.76	34.305		1225*	3.00	34.370																													
1585	3.84	34.901		1590*	3.70	34.863		1770	2.81	34.577		1475*	2.81	34.577		1275*	3.48	34.326																																	
1685*	3.77	34.923		1790*	3.63	34.935		1770	2.89	34.743		1770	2.89	34.743		1370	2.98	34.341																																	
1785	3.64	34.947		1990*	3.50	34.955		2065	3.08	34.868		2065	3.08	34.868		1570*	2.84	34.477																																	
1885	3.53	34.949		2185	3.34	34.949		2365*	3.10	34.924		2365*	3.10	34.924		1765*	3.04	34.654																																	
1990	3.42	34.953		2385	3.18	34.941		2660*	3.02	34.931		2660*	3.02	34.931		1960	3.54	34.826																																	
2090	3.34	34.946		2685	3.02	34.935		2960	2.82	34.925		2960	2.82	34.925		2255	3.57	34.916																																	
2185	3.24	34.944		2980*	2.71	34.922		3260	2.61	34.915		3260	2.61	34.915		2550	3.37	34.944																																	
2485*	2.96	34.931		3280	2.50	34.900		3555	2.06	34.864		3555	2.06	34.864		2840	3.17	34.938																																	
2680	2.82	34.926		3680*	1.37	34.785		3855*	1.28	34.776		3855*	1.28	34.776		2840	3.17	34.938																																	
3065*	2.50	34.911						4140	0.27	34.682		4140	0.27	34.682		3430	1.99	34.833																																	



STATION # 5810  
 DATE 28 IV 59  
 LAT. 32° 29'S  
 LONG. 42° 50'W  
 DEPTH 3900 m  
 GMT 1250 BT 1098-1099

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
1	20.87	35.882	1	21.27	35.648	1	21.13	35.893	1	21.54	35.727
50	20.89	35.906	40	21.30	35.651	50	21.17	35.996	40	21.55	35.727
100	17.73	35.887	75	20.33	35.719	100	17.22	35.789	85	17.89	35.777
200	15.75	35.693	155	16.07	35.695	195	15.41	35.653	165	14.99	35.557
295*	14.38	35.477	230	15.25	35.621	295	14.24	35.461	250	14.35	35.442
395	13.13	35.250	305	14.33	35.470	390	12.78	35.224	335	13.14	35.287
495*	10.75	34.909	385	13.49	35.339	490	10.73	34.921	425	11.28	34.984
595	8.47	34.611	460	12.34	35.149	590	7.72	34.527	515	9.07	34.686
695*	5.94	34.323	540	---	34.879	685	5.83	34.344	671	6.71	34.430
795	4.93	34.277	615	8.22	34.586	785	4.54	34.251	755	5.78	34.349
890	3.70	34.241	765*	5.15	34.294	885*	3.46	34.241	835*	4.01	34.269
1190*	3.05	34.323	910	3.88	34.238	1180	3.04	34.356	1075	3.40	34.349
1390*	2.83	34.451	1055*	3.39	34.330	1380*	2.83	34.476	1270*	2.89	34.438
1570	2.85	34.576	1125	3.34	34.321	1540	2.79	34.584	1430*	2.78	34.541
1670	2.94	34.646	1360	2.97	34.439	1730	2.88	34.701	1620	2.82	34.654
1765*	3.06	34.653	1600*	2.83	34.597	2020*	2.91	34.813	1910*	2.95	34.790
1960	3.31	34.829	1845*	2.97	34.722	2310	---	34.883	2195	---	34.881
2160	3.25	34.895	2090*	3.01	34.808	2600	2.99	34.922	2480	2.97	34.914
2455	3.25	34.926	2350	2.93	34.850	2890	2.82	34.923	2765	2.85	34.924
2750	3.03	34.923	2610	3.06	34.918	3190	2.55	34.900	3060	2.65	34.915
3045	2.83	34.901	2870	2.85	34.911	3485	1.95	34.841	3180	2.56	34.890
3335*	2.31	34.865	3130*	2.30	34.849	3785*	1.33	34.775	3445	2.20	34.872
3620	0.75	34.719	3495	1.29	34.749	4080	0.67	34.708	3830*	1.46	---
3900	0.09	34.668	3855	0.38	34.677	4430*	0.25	34.678	3990	0.95	34.733

STATION # 5811  
 DATE 29-30 IV 59  
 LAT. 32° 42'S  
 LONG. 40° 45'W  
 DEPTH 4454 m  
 GMT 0056 BT 1115

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
1	20.87	35.882	1	21.27	35.648	1	21.13	35.893	1	21.54	35.727
50	20.89	35.906	40	21.30	35.651	50	21.17	35.996	40	21.55	35.727
100	17.73	35.887	75	20.33	35.719	100	17.22	35.789	85	17.89	35.777
200	15.75	35.693	155	16.07	35.695	195	15.41	35.653	165	14.99	35.557
295*	14.38	35.477	230	15.25	35.621	295	14.24	35.461	250	14.35	35.442
395	13.13	35.250	305	14.33	35.470	390	12.78	35.224	335	13.14	35.287
495*	10.75	34.909	385	13.49	35.339	490	10.73	34.921	425	11.28	34.984
595	8.47	34.611	460	12.34	35.149	590	7.72	34.527	515	9.07	34.686
695*	5.94	34.323	540	---	34.879	685	5.83	34.344	671	6.71	34.430
795	4.93	34.277	615	8.22	34.586	785	4.54	34.251	755	5.78	34.349
890	3.70	34.241	765*	5.15	34.294	885*	3.46	34.241	835*	4.01	34.269
1190*	3.05	34.323	910	3.88	34.238	1180	3.04	34.356	1075	3.40	34.349
1390*	2.83	34.451	1055*	3.39	34.330	1380*	2.83	34.476	1270*	2.89	34.438
1570	2.85	34.576	1125	3.34	34.321	1540	2.79	34.584	1430*	2.78	34.541
1670	2.94	34.646	1360	2.97	34.439	1730	2.88	34.701	1620	2.82	34.654
1765*	3.06	34.653	1600*	2.83	34.597	2020*	2.91	34.813	1910*	2.95	34.790
1960	3.31	34.829	1845*	2.97	34.722	2310	---	34.883	2195	---	34.881
2160	3.25	34.895	2090*	3.01	34.808	2600	2.99	34.922	2480	2.97	34.914
2455	3.25	34.926	2350	2.93	34.850	2890	2.82	34.923	2765	2.85	34.924
2750	3.03	34.923	2610	3.06	34.918	3190	2.55	34.900	3060	2.65	34.915
3045	2.83	34.901	2870	2.85	34.911	3485	1.95	34.841	3180	2.56	34.890
3335*	2.31	34.865	3130*	2.30	34.849	3785*	1.33	34.775	3445	2.20	34.872
3620	0.75	34.719	3495	1.29	34.749	4080	0.67	34.708	3830*	1.46	---
3900	0.09	34.668	3855	0.38	34.677	4430*	0.25	34.678	3990	0.95	34.733

STATION # 5812  
 DATE 30 IV 59  
 LAT. 32° 26'S  
 LONG. 38° 53'W  
 DEPTH 4480 m  
 GMT 1634 BT 1127

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
1	21.13	35.893	1	21.54	35.727	1	21.13	35.893	1	21.54	35.727
50	21.17	35.996	50	22.26	35.727	50	21.17	35.996	50	22.26	35.727
100	17.22	35.789	100	17.89	35.777	100	17.22	35.789	100	17.89	35.777
195	15.41	35.653	195	15.26	35.557	195	15.41	35.653	195	15.26	35.557
295	14.24	35.461	295	14.35	35.442	295	14.24	35.461	295	14.35	35.442
390	12.78	35.224	390	13.83	35.354	390	12.78	35.224	390	13.83	35.354
490	10.73	34.921	490	10.50	34.880	490	10.73	34.921	490	10.50	34.880
590	7.72	34.527	595	8.16	34.597	590	7.72	34.527	595	8.16	34.597
685	5.83	34.344	695*	6.71	34.430	685	5.83	34.344	695*	6.71	34.430
785	4.54	34.251	795	4.75	34.279	785	4.54	34.251	795	4.75	34.279
885*	3.46	34.241	895*	4.01	34.269	885*	3.46	34.241	895*	4.01	34.269
1180	3.04	34.356	1195	3.06	34.352	1180	3.04	34.356	1195	3.06	34.352
1380*	2.83	34.476	1395*	2.84	34.497	1380*	2.83	34.476	1395*	2.84	34.497
1540	2.79	34.584	1590*	2.81	34.612	1540	2.79	34.584	1590*	2.81	34.612
1730	2.88	34.701	1785	2.80	34.711	1730	2.88	34.701	1785	2.80	34.711
2020*	2.91	34.813	2070*	2.84	34.788	2020*	2.91	34.813	2070*	2.84	34.788
2310	---	34.883	2360*	2.93	34.870	2310	---	34.883	2360*	2.93	34.870
2600	2.99	34.922	2650*	2.91	34.907	2600	2.99	34.922	2650*	2.91	34.907
2890	2.82	34.923	2940*	2.77	34.908	2890	2.82	34.923	2940*	2.77	34.908
3190	2.55	34.900	3240*	2.56	34.890	3190	2.55	34.900	3240*	2.56	34.890
3485	1.95	34.841	3535*	1.99	34.841	3485	1.95	34.841	3535*	1.99	34.841
3785*	1.33	34.775	3835*	1.46	---	3785*	1.33	34.775	3835*	1.46	---
4080	0.67	34.708	4130*	0.95	34.733	4080	0.67	34.708	4130*	0.95	34.733
4430*	0.25	34.678	4480*	0.25	34.678	4430*	0.25	34.678	4480*	0.25	34.678

STATION # 5813  
 DATE 1 V 59  
 LAT. 32° 39'S  
 LONG. 36° 47'W  
 DEPTH 3860 m  
 GMT 1001 BT 1140

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
1	21.54	35.727	1	22.23	35.727	1	21.54	35.727	1	22.23	35.727
40	21.55	35.727	45	22.52	35.718	40	21.55	35.727	45	22.52	35.718
85	17.46	35.777	85	19.30	35.839	85	17.46	35.777	85	19.30	35.839
165	14.99	35.557	175	15.79	35.630	165	14.99	35.557	175	15.79	35.630
250	14.35	35.442	265	14.56	35.476	250	14.35	35.442	265	14.56	35.476
335	13.14	35.287	355	13.34	35.300	335	13.14	35.287	355	13.34	35.300
425	11.28	34.984	450	11.79	35.058	425	11.28	34.984	450	11.79	35.058
515	9.07	34.686	540	9.87	34.800	515	9.07	34.686	540	9.87	34.800
671	6.71	34.430	695*	7.84	34.572	671	6.71	34.430	695*	7.84	34.572
755	5.78	34.349	730	6.16	34.404	755	5.78	34.349	730	6.16	34.404
835*	4.01	34.269	920*	4.41	34.300	835*	4.01	34.269	920*	4.41	34.300
1075	3.40	34.349	1115	---	34.341	1075	3.40	34.349	1115	---	34.341
1270*	2.89	34.438	1310*	2.90	34.449	1270*	2.89	34.438	1310*	2.90	34.449
1430*	2.78	34.541	1380*	2.85	34.489	1430*	2.78	34.541	1380*	2.85	34.489
1620	2.82	34.711	1475	2.83	34.564	1620	2.82	34.711	1475	2.83	34.564
1910*	2.95	34.790	1570*	2.80	34.775	1910*	2.95	34.790	1570*	2.80	34.775
2195	---	34.881	1760	2.80	34.702	2195	---	34.881	1760	2.80	34.702
2480	2.97	34.914	1955*	2.80	34.774	2480	2.97	34.914	1955*	2.80	34.774
2765	2.85	34.924	2150	2.80	34.826	2765	2.85	34.924	2150	2.80	34.826
3060	2.65	34.915	2345	2.82	34.864	3060	2.65	34.915	2345	2.82	34.864
3445	2.20	34.872	2740	2.8							







STATION # 5842				STATION # 5843				STATION # 5844				STATION # 5845				STATION # 5846				STATION # 5847				STATION # 5848				STATION # 5849			
DATE 2 VI 59		DATE 3 VI 59		DATE 6 VI 59		DATE 19 VI 59		DATE 27 VI 59		DATE 3 VII 59		DATE 7 VII 59		DATE 10 VII 59		DATE 10 VII 59															
LAT. 32° 31'S		LAT. 32° 25'S		LAT. 24° 12'S		LAT. 15° 43'S		LAT. 8° 16'S		LAT. 0° 15'S		LAT. 8° 14'N		LAT. 16° 15'N		LAT. 16° 15'N															
LONG. 5° 14'E		LONG. 3° 12'E		LONG. 11° 20'E		LONG. 6° 46'W		LONG. 31° 24'W		LONG. 40° 21'W		LONG. 47° 25'W		LONG. 57° 31'W		LONG. 57° 31'W															
DEPTH 4969 m		DEPTH 4834 m		DEPTH 3630 m		DEPTH 3620 m		DEPTH 5327 m		DEPTH 3935 m		DEPTH 4488 m		DEPTH 5159 m		DEPTH 5159 m															
GMT 1559 BT 1590		GMT 1201 BT 1602		GMT 1948 BT 1676		GMT 1624 BT 1839		GMT 0425 BT 2012		GMT 1143 BT 2096		GMT 0623 BT 2182		GMT 2106 BT 2264																	
DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S														
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo														
1	17.61	35.682	1	16.96	35.667	1	16.79	35.237	1	27.05	36.304	1	25.95	36.314	1	26.97	36.211	1	27.59	34.901											
45	17.64	35.683	50	16.96	35.670	100	14.50	35.321	85	25.18	36.767	50	24.59	36.407	70	26.95	36.204	35	27.30	35.657											
95	17.63	35.682	100	16.97	35.664	195	12.28	35.054	175	16.06	35.711	95	21.00	36.335	95	21.73	36.456	65	25.99	36.595											
190	15.85	35.458	195	14.64	35.355	295	10.11	34.841	265	10.37	34.969	190	12.86	35.266	195	10.58	35.046	145	21.22	36.663											
285	14.55	35.319	295	12.92	35.141	395*	8.15	34.634	355*	8.34	34.747	285*	9.84	34.895	285*	9.04	34.870	145	21.22	36.663											
380	13.58	35.331	395	11.35	34.978	495	6.36	34.489	450	7.04	34.611	380	8.37	34.747	380	7.99	34.764	380	11.01	35.169											
475*	12.47	35.117	495	9.73	34.777	595*	5.34	34.435	545*	6.07	34.537	480	7.51	34.652	490	7.21	34.711	475*	9.64	35.003											
570	10.83	34.916	590	7.98	34.595	695	4.65	34.419	640	5.38	34.494	580	5.85	34.512	590	6.37	34.639	565	8.28	34.829											
670*	9.25	34.754	690*	6.10	34.422	790*	4.14	34.424	735	4.78	34.481	680*	5.05	34.489	790*	5.34	34.646	665*	7.28	34.717											
765	7.47	34.543	790	4.98	34.336	890	3.70	34.531	830	3.94	34.476	775	4.90	34.502	985	5.06	34.717	760	6.76	34.724											
865*	4.10	34.277	990*	3.69	34.335	1190*	3.46	34.660	1120*	4.00	34.642	975*	4.39	34.535	1180*	4.83	34.876	960*	5.70	34.777											
1160	3.58	34.386	1185	3.12	34.440	1390	3.34	34.760	1315	4.21	34.839	1170	4.47	34.800	1380	4.45	34.986	1160	5.22	34.913											
1355*	3.11	34.507	1385*	2.90	34.552	1590*	3.37	34.839	1510*	4.09	34.952	1365*	4.36	34.917	1580*	4.08	34.986	1360	4.73	34.997											
1535*	2.91	34.607	1345	2.95	34.524	1675*	3.34	34.846	1370*	4.20	34.891	1575*	4.06	34.976	1960*	3.45	34.975	1550*	4.28	35.006											
1630	2.91	34.759	1720	2.81	34.664	1870	3.29	34.885	1775	3.75	34.965	1775	3.73	34.983	2160	3.26	34.962	980	5.47	34.780											
2130*	2.90	34.838	2015*	2.83	34.836	2070*	3.14	34.887	1915*	3.32	34.917	1975*	3.40	34.986	2355	3.13	34.954	1205*	5.08	34.926											
2525	2.69	34.884	2310	2.68	34.846	2370	3.00	34.898	2110	3.13	34.917	2365	3.14	34.958	2555	3.00	34.958	1430	4.54	34.998											
2575*	2.46	34.859	2605*	2.52	34.855	2665*	2.88	34.900	2280	2.92	34.944	2765*	2.88	34.945	2755*	2.88	34.945	1725*	3.93	34.997											
3275	2.35	34.859	2990	2.36	34.860	2865	2.75	34.887	2495	2.80	34.916	3175	2.60	34.932	2950	2.74	34.962	2015	3.56	34.979											
3670*	2.18	34.850	3380*	2.22	34.863	2860*	2.64	34.882	3175	2.64	34.939	3360*	2.50	34.932	3240*	2.58	34.926	2295*	3.26	34.971											
4065	1.59	34.785	3765	1.78	34.811	3055	2.57	34.876	3570*	2.48	34.915	3555	2.44	34.910	3535	2.47	34.910	2575	3.04	34.950											
4465*	1.13	34.751	4160*	1.17	34.766	3250*	2.48	34.875	3970	1.93	34.862	3745*	2.37	34.910	4125*	2.24	34.905	2855*	2.77	34.937											
4850*	1.09	34.734	4655*	1.09	34.719	3450*	2.41	34.868	4360*	1.12	34.770	3935*	2.30	34.903	4420*	2.04	34.887	3285*	2.57	34.921											



LAT. 36° 16'N  
LONG. 75° 00'W  
DEPTH 39 m  
GMT 2024

DEPTH	T	S
m	oC	o/oo
1	11.25	33.934
5	11.20	33.943
10	10.41	34.103
15	9.86	34.514
20*	9.68	34.288
25	9.59	34.322
35*	9.52	34.344

LAT. 36° 15'N  
LONG. 74° 34'W  
DEPTH 1394 m  
GMT 2340

DEPTH	T	S
m	oC	o/oo
1	11.97	34.848
24	11.37	34.915
49	11.24	34.937
97	11.23	35.123
146*	11.71	35.330
195	11.08	35.291
292*	8.84	35.156
390	6.73	35.037
487*	5.23	34.954
584	4.72	34.954
682	4.67	34.981
779*	4.34	34.969
877	4.21	34.961
974*	4.18	34.966
1169*	3.99	34.965
1364*	3.86	34.966

LAT. 36° 14'N  
LONG. 74° 21'W  
DEPTH 2059 m  
GMT 0137

DEPTH	T	S
m	oC	o/oo
1	12.12	34.731
22	11.00	34.737
44	10.49	34.710
80	11.39	35.051
134	10.87	35.088
178	11.03	35.254
268*	9.07	35.169
358	7.30	35.058
449*	5.89	34.985
540	5.52	34.971
632	4.89	34.994
724	4.51	34.971
816*	4.30	34.970
909	---	34.967
1097	4.02	34.970
1285*	3.82	34.963

LAT. 36° 14'N  
LONG. 74° 08'W  
DEPTH 2403 m  
GMT 0502

DEPTH	T	S
m	oC	o/oo
1	12.46	34.789
23	12.41	35.188
46	12.26	35.178
93	10.70	34.969
140*	11.06	35.150
187	---	35.442
282*	8.95	35.153
376	6.99	35.079
471*	5.52	35.002
565	4.86	34.979
660	4.67	34.990
754	4.42	34.971
850*	4.21	34.979
945	---	34.975
1136	3.93	34.973
1329*	3.77	34.967

LAT. 36° 14'N  
LONG. 73° 55'W  
DEPTH 2783 m  
GMT 0814

DEPTH	T	S
m	oC	o/oo
1	14.17	35.173
24	13.22	35.231
47	12.78	35.220
95	11.81	35.263
142*	11.86	35.368
190	11.40	35.428
287	---	35.141
384	6.92	35.047
482*	5.76	35.004
580	5.06	34.997
677	5.23	35.001
785	4.34	34.991
883*	4.16	34.983
981	---	34.974
1177*	3.85	34.970
1374*	3.71	34.967

LAT. 36° 14'N  
LONG. 73° 43'W  
DEPTH 3034 m  
GMT 1120

DEPTH	T	S
m	oC	o/oo
1	13.90	35.198
24	11.61	35.081
49	12.04	35.220
98	11.88	35.333
147*	12.15	35.479
196	11.41	35.418
294*	8.54	35.122
392	6.39	35.034
491*	5.29	35.003
589	4.85	35.005
687	4.57	34.995
785	4.34	34.991
883*	4.16	34.983
981	---	34.974
1177*	3.85	34.970
1374*	3.71	34.967

LAT. 36° 14'N  
LONG. 73° 32'W  
DEPTH 3237 m  
GMT 1426

DEPTH	T	S
m	oC	o/oo
1	13.82	35.296
25	13.34	35.384
50	12.70	35.317
99	12.35	35.443
149*	12.34	35.532
198	10.56	35.330
297*	8.44	35.112
396	6.45	35.034
496*	5.23	35.004
595	4.70	35.006
694	4.52	35.007
793	4.31	34.996
892*	4.13	34.988
991	4.04	34.982
1189*	3.82	34.971
1387*	3.68	34.972

LAT. 36° 14'N  
LONG. 71° 02'W  
DEPTH 4334 m  
GMT 2130

DEPTH	T	S
m	oC	o/oo
1	18.83	36.347
25	18.55	36.346
50	18.48	36.348
99	18.12	36.330
149*	17.82	36.284
199	17.66	36.262
298*	17.39	36.215
397	14.51	35.860
495*	12.83	35.636
593	10.75	35.365
691*	8.58	35.150
789	7.12	35.083
886*	5.99	35.046
983	5.17	35.030
1177*	4.42	34.997

STATION # 25  
DATE 20 IV 59  
LAT. 36° 13'N  
LONG. 73° 20'W  
DEPTH 3363 m  
GMT 1711

DEPTH	T	S
m	oC	o/oo
1	15.49	35.935
24	15.47	35.743
48	12.47	35.915
96	12.55	35.797
143*	12.19	35.527
191	11.23	35.409
277*	8.89	35.134
382	6.43	35.033
478*	5.50	35.060
573	4.91	35.010
669	4.60	35.003
764	4.27	34.994
860*	4.17	34.983
955	4.02	34.973
1146*	3.87	34.966

STATION # 26  
DATE 20 IV 59  
LAT. 36° 15'N  
LONG. 73° 07'W  
DEPTH 3524 m  
GMT 2041

DEPTH	T	S
m	oC	o/oo
1	19.21	36.022
22	16.12	35.645
44	13.33	35.424
89	11.92	35.330
134*	12.04	35.444
181	11.23	35.409
277*	8.89	35.134
377	6.68	35.045
478*	5.50	35.060
579	4.71	35.003
681	4.61	35.016
782	4.39	35.011
884*	4.23	35.005
987	4.11	34.996
1190*	3.87	34.985

STATION # 27  
DATE 20 IV 59  
LAT. 36° 14'N  
LONG. 72° 56'W  
DEPTH 3641 m  
GMT 2342

DEPTH	T	S
m	oC	o/oo
1	19.21	36.004
25	16.62	35.707
50	13.68	35.333
100	12.02	35.326
149*	11.77	35.452
198	11.05	35.206
298*	9.38	35.201
397	7.77	35.076
496*	6.19	35.034
595	5.18	35.035
694	4.65	35.022
794	4.38	35.007
893*	4.24	35.001
992	4.16	35.001
1194	3.86	34.983

STATION # 28  
DATE 21 IV 59  
LAT. 36° 16'N  
LONG. 72° 35'W  
DEPTH 3731 m  
GMT 0316

DEPTH	T	S
m	oC	o/oo
1	15.99	35.401
25	14.40	35.158
50	11.04	34.843
99	10.91	34.928
148*	11.30	35.174
198	11.05	35.206
298*	9.38	35.201
397	7.77	35.076
496*	6.19	35.034
595	5.18	35.035
694	4.65	35.022
794	4.38	35.007
893*	4.24	35.001
992	4.16	35.001
1190*	3.89	34.978

STATION # 29  
DATE 21 IV 59  
LAT. 36° 19'N  
LONG. 72° 14'W  
DEPTH 3820 m  
GMT 0733

DEPTH	T	S
m	oC	o/oo
1	22.50	36.238
23	21.71	36.200
46	20.87	36.168
91	17.12	36.099
137*	11.62	35.044
182	11.05	35.063
271*	11.32	35.220
360	10.67	35.335
448*	8.85	35.168
530	6.90	35.053
623	5.68	35.060
710	5.00	35.039
797*	4.68	34.990
890	4.29	34.981
1085*	4.08	34.973

STATION # 30  
DATE 21 IV 59  
LAT. 36° 15'N  
LONG. 71° 50'W  
DEPTH 4085 m  
GMT 1307

DEPTH	T	S
m	oC	o/oo
1	24.55	36.335
25	24.57	36.335
46	24.56	36.336
98	24.53	36.351
147*	21.58	36.432
196	20.65	36.558
293*	18.76	36.517
390	17.21	36.314
486*	13.25	35.710
577	9.92	35.257
666*	7.93	35.090
757	6.26	35.016
848*	5.42	35.011
941	5.13	35.044
1130*	4.38	35.001

STATION # 31  
DATE 21 IV 59  
LAT. 36° 15'N  
LONG. 71° 28'W  
DEPTH 4217 m  
GMT 1705

DEPTH	T	S
m	oC	o/oo
1	24.54	36.357
23	24.54	36.356
46	24.48	36.367
92	22.38	36.486
138*	20.77	36.495
184	18.88	36.486
276*	18.67	36.541
368	17.91	36.471
461*	17.33	36.376
554	15.72	36.085
646*	12.75	35.633
741	10.31	35.341
835*	8.31	35.160
930	6.41	35.088
1119*	4.75	34.994

STATION # 32  
DATE 21 IV 59  
LAT. 36° 14'N  
LONG. 71° 02'W  
DEPTH 4334 m  
GMT 2130

DEPTH	T	S
m	oC	o/oo
1	18.83	36.347
25	18.55	36.346
50	18.48	36.348
99	18.12	36.330
149*	17.82	36.284
199	17.66	36.262
298*	17.39	36.215
397	14.51	35.860
495*	12.83	35.636
593	10.75	35.365
691*	8.58	35.150
789	7.12	35.083
886*	5.99	35.046
983	5.17	35.030
1177*	4.42	34.997

STATION # 33  
DATE 21 IV 59  
LAT. 36° 14'N  
LONG. 71° 02'W  
DEPTH 4334 m  
GMT 2130

DEPTH	T	S
m	oC	o/oo
1	18.83	36.347
25	18.55	36.346
50	18.48	36.348
99	18.12	36.330
149*	17.82	36.284
199	17.66	36.262
298*	17.39	36.215
397	14.51	35.860
495*	12.83	35.636
593	10.75	35.365
691*	8.58	35.150
789	7.12	35.083
886*	5.99	35.046
983	5.17	35.030
1177*	4.42	34.997



STATION # 33				STATION # 34				STATION # 35				STATION # 36				STATION # 37				STATION # 38				STATION # 39				STATION # 40											
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S	
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo	
1	19.75	36.505		1	21.16	36.384		1	20.20	36.438		1	20.80	36.438		1	22.73	36.380		1	19.09	36.496		1	18.68	36.424		1	19.09	36.496		1	18.68	36.424		1	18.68	36.424	
25	19.57	36.500		24	21.09	36.404		24	20.19	36.449		24	20.78	36.450		23	22.72	36.382		23	19.10	36.493		25	18.54	36.425		25	19.10	36.493		25	18.54	36.425		25	18.54	36.425	
50	19.50	36.504		48	19.82	36.448		48	20.19	36.460		48	20.60	36.471		46	22.60	36.403		46	18.09	36.494		50	18.54	36.443		50	18.09	36.494		50	18.54	36.443		50	18.54	36.443	
100	19.00	36.494		97	19.56	36.474		95	20.08	36.477		95	20.08	36.477		92	21.89	36.502		92	18.96	36.499		99	18.41	36.450		99	18.96	36.499		99	18.41	36.450		99	18.96	36.499	
150*	18.93	36.494		145*	19.22	36.493		143*	19.44	36.499		147*	19.19	36.496		137*	20.42	36.661		137*	18.54	36.485		149*	18.23	36.454		149*	18.54	36.485		149*	18.23	36.454		149*	18.54	36.485	
200	18.93	36.494		194	18.97	36.508		194	19.20	36.519		191	19.20	36.519		183	19.44	36.591		183	18.11	36.466		199	18.01	36.454		199	18.11	36.466		199	18.01	36.454		199	18.11	36.466	
300*	18.32	36.501		293*	18.02	36.492		291*	18.41	36.480		287*	18.41	36.480		287*	18.41	36.480		287*	18.41	36.480		298*	17.85	36.452		298*	17.85	36.452		298*	17.85	36.452		298*	17.85	36.452	
399	17.74	36.453		399	18.62	36.526		390	18.11	36.491		383	18.00	36.468		383	18.00	36.468		383	18.00	36.468		397	17.59	36.428		397	17.59	36.428		397	17.59	36.428		397	17.59	36.428	
499*	16.92	36.308		489*	17.93	36.458		480*	17.67	36.444		458*	17.69	36.444		458*	17.69	36.444		458*	17.69	36.444		496*	16.60	36.253		496*	16.60	36.253		496*	16.60	36.253		496*	16.60	36.253	
598	15.21	36.020		598	17.07	36.319		588	16.77	36.297		577	17.25	36.369		577	17.25	36.369		577	17.25	36.369		596	15.84	36.120		596	15.84	36.120		596	15.84	36.120		596	15.84	36.120	
698	13.11	35.690		698	15.72	36.100		674	15.69	36.088		674	15.69	36.088		674	15.69	36.088		674	15.69	36.088		695	14.00	35.835		695	14.00	35.835		695	14.00	35.835		695	14.00	35.835	
797	10.72	35.379		788	13.42	35.732		788	13.42	35.732		772	13.48	35.760		772	13.48	35.760		772	13.48	35.760		794	12.12	35.558		794	12.12	35.558		794	12.12	35.558		794	12.12	35.558	
897*	8.61	35.161		888*	11.46	35.475		888*	11.29	35.429		870*	11.53	35.478		870*	11.53	35.478		870*	11.53	35.478		883*	10.04	35.300		883*	10.04	35.300		883*	10.04	35.300		883*	10.04	35.300	
995	---	35.044		997	8.85	35.137		986	9.47	35.214		981	7.90	35.120		981	7.90	35.120		981	7.90	35.120		992	6.83	35.078		992	6.83	35.078		992	6.83	35.078		992	6.83	35.078	
1194*	4.61	35.002		1182*	5.98	35.052		1182*	5.98	35.052		1177*	5.69	35.032		1177*	5.69	35.032		1177*	5.69	35.032		1191*	5.39	35.025		1191*	5.39	35.025		1191*	5.39	35.025		1191*	5.39	35.025	
1423*	4.19	34.986		1484*	4.39	34.992		1484*	4.39	34.992		1487*	4.37	34.990		1487*	4.37	34.990		1487*	4.37	34.990		1423*	4.54	35.012		1423*	4.54	35.012		1423*	4.54	35.012		1423*	4.54	35.012	
1717	3.84	34.970		1781	4.01	34.980		1781	4.01	34.980		1784	3.96	34.980		1784	3.96	34.980		1784	3.96	34.980		1717	4.03	34.985		1717	4.03	34.985		1717	4.03	34.985		1717	4.03	34.985	
2013*	3.68	34.971		2078*	3.77	34.980		2078*	3.77	34.980		2081*	3.77	34.972		2081*	3.77	34.972		2081*	3.77	34.972		2012*	3.76	34.973		2012*	3.76	34.973		2012*	3.76	34.973		2012*	3.76	34.973	
2306	3.49	34.969		2376	3.55	34.972		2376	3.55	34.972		2115	3.73	34.968		2115	3.73	34.968		2115	3.73	34.968		2306	3.58	34.976		2306	3.58	34.976		2306	3.58	34.976		2306	3.58	34.976	
2601*	3.25	34.963		2674*	3.32	34.964		2674*	3.32	34.964		2401*	3.52	34.966		2401*	3.52	34.966		2401*	3.52	34.966		2603*	3.28	34.975		2603*	3.28	34.975		2603*	3.28	34.975		2603*	3.28	34.975	
2893	2.98	34.951		2972	3.03	34.952		2972	3.03	34.952		2779	3.24	34.960		2779	3.24	34.960		2779	3.24	34.960		2896	3.09	34.952		2896	3.09	34.952		2896	3.09	34.952		2896	3.09	34.952	
3185*	2.72	34.938		3270*	2.73	34.940		3270*	2.73	34.940		3469*	2.62	34.932		3469*	2.62	34.932		3469*	2.62	34.932		3394*	2.68	34.937		3394*	2.68	34.937		3394*	2.68	34.937					
3481	2.49	34.926		3568	2.48	34.918		3568	2.48	34.918		3865	2.40	34.919		3865	2.40	34.919		3865	2.40	34.919		3789	2.42	34.922		3789	2.42	34.922		3789	2.42	34.922		3789	2.42	34.922	
3773*	2.35	34.915		3865*	2.34	34.915		3865*	2.34	34.915		4261*	2.34	34.909		4261*	2.34	34.909		4261*	2.34	34.909		4189*	2.31	34.914		4189*	2.31	34.914		4189*	2.31	34.914		4189*	2.31	34.914	
4066	2.28	34.907		4162	2.28	34.907		4162	2.28	34.907		4658	2.32	34.902		4658	2.32	34.902		4658	2.32	34.902		4030*	2.27	34.914		4030*	2.27	34.914		4030*	2.27	34.914		4030*	2.27	34.914	
4358*	2.23	34.901		4460*	2.23	34.897		4460*	2.23	34.897		5054*	2.34	34.900		5054*	2.34	34.900		5054*	2.34	34.900		4430	2.32	34.908		4430	2.32	34.908		4430	2.32	34.908		4430	2.32	34.908	



LAT. 36° 18'N  
LONG. 33° 49'W  
DEPTH 2889 m  
GMT 0615

LAT. 36° 15'N  
LONG. 35° 22'W  
DEPTH 2193 m  
GMT 1723

LAT. 36° 08'N  
LONG. 36° 59'W  
DEPTH 3312 m  
GMT 0936

LAT. 36° 11'N  
LONG. 38° 24'W  
DEPTH ----- m  
GMT 0224

LAT. 36° 15'N  
LONG. 40° 06'W  
DEPTH 3773 m  
GMT 1604

LAT. 36° 22'N  
LONG. 41° 50'W  
DEPTH 4382 m  
GMT 0657

LAT. 36° 11'N  
LONG. 43° 30'W  
DEPTH 4952 m  
GMT 2009

LAT. 36° 10'N  
LONG. 45° 11'W  
DEPTH 4750 m  
GMT 1002

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.55	36.475	1	18.16	36.331
24	18.55	36.478	25	17.81	36.329
48	18.53	36.491	50	17.43	36.333
96	18.28	36.481	100	16.52	36.250
144*	18.11	36.483	150*	16.06	36.180
192*	17.93	36.488	200	15.53	36.115
240*	17.66	36.440	300*	14.75	35.982
288*	17.14	36.350	400	13.57	35.819
336*	16.12	35.988	500*	12.59	35.702
384*	15.26	35.785	600	11.46	35.562
432*	13.76	35.785	700*	10.07	35.477
480*	11.50	35.473	800	9.11	35.439
528*	8.97	35.176	900*	8.57	35.456
576*	7.29	35.087	1000	7.94	35.430
624*	5.78	35.122	1200*	6.65	35.317

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.63	36.458	1	16.93	36.318
24	18.59	36.467	25	16.96	36.327
48	18.19	36.472	50	15.95	36.221
96	17.60	36.401	100	15.09	36.061
144*	17.16	36.323	150*	14.41	35.955
192*	16.93	36.295	200*	13.24	35.807
240*	16.84	36.279	300*	12.07	35.664
288*	16.04	36.149	400*	12.43	35.704
336*	14.87	35.987	500	11.74	35.591
384*	13.74	35.834	600*	10.94	35.538
432*	12.12	35.615	700	10.42	35.526
480*	10.61	35.432	800*	10.01	35.587
528*	9.08	35.311	900	9.57	35.617
576*	7.50	35.206	1000*	9.10	35.649
624*	7.25	35.279	1200	7.81	35.552
1170*	6.20	35.251	1400*	6.22	35.347

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.63	36.458	1	16.62	36.167
24	18.59	36.467	25	16.59	36.157
48	18.19	36.472	50	15.40	36.130
96	17.60	36.401	100	15.17	36.092
144*	17.16	36.347	150*	14.20	35.937
192*	16.93	36.295	200*	13.00	35.777
240*	16.84	36.279	300*	12.43	35.704
288*	16.04	36.149	400*	12.14	35.679
336*	14.87	35.987	500	11.47	35.586
384*	13.74	35.834	600*	10.83	35.546
432*	12.12	35.615	700	10.22	35.535
480*	10.61	35.432	800*	9.98	35.623
528*	9.08	35.311	900	9.36	35.650
576*	7.50	35.206	1000*	9.00	35.697
624*	7.25	35.279	1200	7.32	35.478
1170*	6.20	35.251	1400*	6.09	35.323

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.63	36.458	1	16.89	36.125
24	18.59	36.467	25	16.26	36.104
48	18.19	36.472	50	15.64	36.053
96	17.60	36.401	100	15.18	36.056
144*	17.16	36.347	150*	14.78	36.022
192*	16.93	36.295	200*	14.23	35.937
240*	16.84	36.279	300*	13.20	35.808
288*	16.04	36.149	400*	13.20	35.849
336*	14.87	35.987	500	12.34	35.683
384*	13.74	35.834	600*	11.47	35.586
432*	12.12	35.615	700	10.83	35.546
480*	10.61	35.432	800*	10.22	35.535
528*	9.08	35.311	900	10.91	35.528
576*	7.50	35.206	1000*	10.16	35.497
624*	7.25	35.279	1200	9.81	35.588
1170*	6.20	35.251	1400*	8.06	35.323

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	17.50	36.299	1	16.89	36.125
23	17.13	36.258	25	16.26	36.104
46	16.39	36.213	50	15.64	36.053
91	15.93	36.157	100	15.18	36.056
137*	15.59	36.118	150*	14.78	36.022
183	15.28	36.057	200*	14.23	35.937
274*	14.96	36.040	300*	13.20	35.808
348	14.78	36.013	400*	13.20	35.849
437*	14.00	35.870	500	12.34	35.683
527	12.55	35.659	600*	11.47	35.586
618*	11.07	35.468	700	10.83	35.546
710	9.98	35.374	800*	10.22	35.535
803*	8.75	35.295	900	10.91	35.528
896	7.90	35.317	1000*	10.16	35.497
1086*	6.73	35.310	1200	9.81	35.588
1378*	4.86	35.099	1400*	8.06	35.323
1551	4.48	35.064	1621*	6.81	35.423
1751*	4.00	35.006	1820	5.43	35.227
1951	3.72	34.987	2019*	4.80	35.151
2151*	3.57	34.980	2216*	4.01	35.057
2451	3.29	34.969	2414*	3.50	35.002
2851*	3.07	34.957	2614*	3.03	34.957
3051	2.83	34.942	2814*	2.85	34.951
3251*	2.78	34.942	3014*	2.75	34.944
3663	2.55	34.927	3214*	2.75	34.944
3762*	2.39	34.910	3414*	2.70	34.938

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.30	36.404	1	17.87	36.225
25	18.30	36.396	25	17.40	36.276
49	17.84	36.373	50	16.70	36.252
99	17.81	36.410	100	16.02	36.163
148*	17.10	36.308	150*	15.33	36.063
197	17.45	36.421	200	14.89	36.015
296	16.66	36.267	300*	13.87	35.871
395	15.55	36.048	400	12.85	35.733
494	14.20	35.881	500*	11.89	35.627
592	12.29	35.583	600	11.07	35.546
691	10.50	35.407	700*	10.02	35.483
790	8.76	35.238	800	9.26	35.487
888*	7.78	35.285	900*	8.41	35.476
987	6.49	35.221	1000*	8.31	35.522
1184*	5.98	35.219	1200*	7.00	35.417
1386*	5.05	35.134	1384*	5.82	35.258
1586	4.66	35.105	1584	4.71	35.131
1784*	3.90	35.007	1784*	4.13	35.048
2182*	3.21	34.992	2182*	3.43	34.994
2581*	3.03	34.954	2581*	3.23	34.963
2980*	2.85	34.965	2980*	3.02	34.956
3379	2.56	34.929	3379*	2.87	34.951
3778	2.42	34.917	3778*	2.84	34.945
4177	2.34	34.907	4177*	2.83	34.945
4576	2.33	34.911	4576*	2.83	34.945

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	17.89	36.256	1	17.04	36.006
25	16.80	36.225	25	15.84	35.989
49	16.70	36.246	49	14.92	35.995
99	16.27	36.181	99	14.74	35.988
149*	15.16	35.960	148*	14.55	35.974
199*	15.10	35.992	197	14.27	35.942
299*	14.31	35.884	296*	13.10	35.778
399	12.65	35.640	398*	12.18	35.664
498*	10.65	35.383	497	11.39	35.571
598	8.75	35.192	592	10.53	35.501
698	7.43	35.130	690	9.75	35.480
797	6.73	35.160	789	8.98	35.477
897*	6.49	35.221	887*	8.29	35.472
997	5.84	35.168	986	7.83	35.459
1196*	5.17	35.127	1183*	6.90	35.392
1492*	4.24	35.037	1234*	6.63	35.358
1792	3.73	34.976	1433	5.36	35.199
2092*	3.53	34.974	1632*	4.55	35.095
2393	3.25	34.961	1831	4.03	35.040
2693*	3.03	34.954	2030*	3.65	35.006
3094	2.70	34.938	2229	3.32	34.974
3494*	2.43	34.921	2671*	3.23	34.969
3894	2.29	34.907			
4295*	2.28	34.905			
4695	2.32	34.899			
4895	2.32	34.899			

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	18.00	36.179	1	18.00	36.179
25	16.42	36.165	25	16.42	36.165
50	15.79	36.113	50	15.79	36.113
100	15.41	36.077	100	15.41	36.077
150*	15.06	36.028	150*	15.06	36.028
200	14.63	35.986	200	14.63	35.986
250*	13.54	35.824	250*	13.54	35.824
300*	12.67	35.711	300*	12.67	35.711
350	11.95	35.632	350	11.95	35.632
400	11.02	35.537	400	11.02	35.537
450	10.23	35.494	450	10.23	35.494
500	9.62	35.493	500	9.62	35.493
550*	8.96	35.518	550*	8.96	35.518
600	8.39	35.522	600	8.39	35.522
650*	7.25	35.446	650*	7.25	35.446

STATION # 64  
DATE 6 V 59  
LAT. 36° 15'N  
LONG. 20° 31'W  
DEPTH 5115 m  
GMT 2145

STATION # 63  
DATE 6 V 59  
LAT. 36° 15'N  
LONG. 22° 08'W  
DEPTH 4824 m  
GMT 1100

STATION # 62  
DATE 6 V 59  
LAT. 36° 18'N  
LONG. 23° 48'W  
DEPTH 3542 m  
GMT 0143

STATION # 61  
DATE 5 V 59  
LAT. 36° 16'N  
LONG. 25° 26'W  
DEPTH 3612 m  
GMT 1718

STATION # 60  
DATE 5 V 59  
LAT. 36° 19'N  
LONG. 26° 59'W  
DEPTH 3488 m  
GMT 0934

STATION # 59  
DATE 4 V 59  
LAT. 36° 16'N  
LONG. 28° 44'W  
DEPTH 3584 m  
GMT 2005

STATION # 58  
DATE 4 V 59  
LAT. 36° 15'N  
LONG. 30° 24'W  
DEPTH 2807 m  
GMT 0637

STATION # 57  
DATE 3 V 59  
LAT. 36° 15'N  
LONG. 32° 03'W  
DEPTH 2681 m  
GMT 2005

DEPTH m	T °C	S o/oo	DEPTH m	T °C	S o/oo
1	16.21	36.197	1	16.21	36.197
48	15.55	36.139	48	15.55</	



STATION # 65  
 DATE 7 V 59  
 LAT. 36° 19'N  
 LONG. 18° 53'W  
 DEPTH 5516 m  
 GMT 0801

STATION # 66  
 DATE 7 V 59  
 LAT. 36° 15'N  
 LONG. 17° 12'W  
 DEPTH 5143 m  
 GMT 2314

STATION # 67  
 DATE 8 V 59  
 LAT. 36° 15'N  
 LONG. 15° 31'W  
 DEPTH 3189 m  
 GMT 1732

STATION # 68  
 DATE 9 V 59  
 LAT. 36° 11'N  
 LONG. 13° 53'W  
 DEPTH 4573 m  
 GMT 0620

STATION # 69  
 DATE 9 V 59  
 LAT. 36° 15'N  
 LONG. 12° 14'W  
 DEPTH 3723 m  
 GMT 1530

STATION # 70  
 DATE 11 V 59  
 LAT. 36° 15'N  
 LONG. 10° 34'W  
 DEPTH 4881 m  
 GMT 0929

STATION # 71  
 DATE 11 V 59  
 LAT. 36° 16'N  
 LONG. 9° 33'W  
 DEPTH 3532 m  
 GMT 1700

STATION # 72  
 DATE 11 V 59  
 LAT. 36° 15'N  
 LONG. 8° 43'W  
 DEPTH 2258 m  
 GMT 2223

STATION # 73  
 DATE 12 V 59  
 LAT. 36° 16'N  
 LONG. 8° 08'W  
 DEPTH 1357 m  
 GMT 0253

STATION # 74  
 DATE 12 V 59  
 LAT. 36° 15'N  
 LONG. 7° 31'W  
 DEPTH 850 m  
 GMT 0609

STATION # 75  
 DATE 12 V 59  
 LAT. 36° 15'N  
 LONG. 6° 55'W  
 DEPTH 781 m  
 GMT 0907

STATION # 76  
 DATE 12 V 59  
 LAT. 36° 21'N  
 LONG. 6° 42'W  
 DEPTH 203 m  
 GMT 1138

STATION # 77  
 DATE 12 V 59  
 LAT. 36° 26'N  
 LONG. 6° 30'W  
 DEPTH 63 m  
 GMT 1257

STATION # 78  
 DATE 11 V 59  
 LAT. 36° 15'N  
 LONG. 10° 34'W  
 DEPTH 4881 m  
 GMT 0929

STATION # 79  
 DATE 11 V 59  
 LAT. 36° 16'N  
 LONG. 9° 33'W  
 DEPTH 3532 m  
 GMT 1700

STATION # 80  
 DATE 11 V 59  
 LAT. 36° 15'N  
 LONG. 8° 43'W  
 DEPTH 2258 m  
 GMT 2223

DEPTH m	T °C	S o/oo
1	16.55	36.305
50	16.54	36.303
100	15.72	36.205
150	15.10	36.104
200*	14.03	35.925
300	12.96	35.779
400*	12.09	35.668
500	11.51	35.603
599*	10.86	35.579
699	10.16	35.549
799*	10.08	35.679
899	9.70	35.713
999*	9.20	35.716
1199	8.60	35.735
1399*	7.38	35.583

DEPTH m	T °C	S o/oo
1	15.92	36.161
49	15.84	36.161
99	15.04	36.115
148	15.00	36.112
197	14.43	35.995
296	13.32	35.840
395*	12.40	35.720
493	11.74	35.626
592*	10.96	35.560
691	10.60	35.580
790	10.62	35.734
888	10.29	35.806
987*	10.08	35.875
1184	9.34	35.878
1382*	7.99	35.699

DEPTH m	T °C	S o/oo
1	16.27	36.224
50	16.10	36.218
100	15.12	36.143
150	14.50	36.043
200*	13.43	35.874
300	12.51	35.737
400*	11.78	35.650
500	11.18	35.605
600*	10.80	35.643
700	10.62	35.711
800*	11.43	36.041
900	10.79	36.020
1000*	10.88	36.141
1200	10.52	36.192
1400*	8.08	35.743

DEPTH m	T °C	S o/oo
1	16.78	36.378
50	16.65	36.353
99	15.59	36.217
148	15.07	36.148
197*	14.22	36.004
296	12.75	35.754
396*	12.05	35.664
495	11.38	35.603
595*	10.98	35.632
694	10.49	35.654
793*	10.63	35.848
893	10.69	35.964
993*	10.39	36.000
1191	10.10	36.083
1389*	8.51	35.832

DEPTH m	T °C	S o/oo
1	16.73	36.289
43	16.46	36.288
87	15.42	36.240
131	15.21	36.200
176*	14.18	36.007
266	12.55	35.759
358*	11.68	35.660
451	11.31	35.643
545*	11.01	35.677
641	10.87	35.736
737	10.87	35.870
835	10.44	35.866
933*	10.82	36.058
1131	10.17	36.053
1329*	9.03	35.877

DEPTH m	T °C	S o/oo
1	16.74	36.275
46	16.54	36.276
93	15.92	36.269
139	15.17	36.165
186*	14.43	36.018
281	13.29	35.862
376*	12.38	35.726
473	11.72	35.653
570*	11.15	35.628
668	10.88	35.703
766*	10.67	35.785
864	10.38	35.841
963*	9.90	35.849
1160	9.87	36.010
1357*	8.76	35.870

DEPTH m	T °C	S o/oo
1	17.70	36.392
50	16.99	36.380
100	15.53	36.269
150	14.48	36.059
200*	13.74	35.930
300	12.85	35.809
400*	11.98	35.678
500	11.68	35.755
600*	11.38	35.848
700	11.40	36.000
800	11.10	36.067
900	10.79	36.080
1000*	10.30	36.050
1200	11.04	36.409
1400*	7.91	35.746

DEPTH m	T °C	S o/oo
1	17.37	36.270
50	16.17	36.223
100	15.21	36.178
150	14.74	36.121
200*	14.09	36.003
300	12.83	35.802
400*	11.96	35.697
500	11.41	35.692
600*	11.01	35.740
700	11.03	35.883
800	11.05	36.000
900	10.38	35.943
1000*	10.67	36.125
1200	10.68	36.271
1400*	7.97	35.754

STATION # 81  
 DATE 12 V 59  
 LAT. 36° 16'N  
 LONG. 8° 08'W  
 DEPTH 1357 m  
 GMT 0253

STATION # 82  
 DATE 12 V 59  
 LAT. 36° 15'N  
 LONG. 7° 31'W  
 DEPTH 850 m  
 GMT 0609

STATION # 83  
 DATE 12 V 59  
 LAT. 36° 15'N  
 LONG. 6° 55'W  
 DEPTH 781 m  
 GMT 0907

STATION # 84  
 DATE 12 V 59  
 LAT. 36° 21'N  
 LONG. 6° 42'W  
 DEPTH 203 m  
 GMT 1138

STATION # 85  
 DATE 12 V 59  
 LAT. 36° 26'N  
 LONG. 6° 30'W  
 DEPTH 63 m  
 GMT 1257

DEPTH m	T °C	S o/oo
1	17.53	36.409
48	17.20	36.401
97	16.01	36.332
145	15.53	36.246
194*	14.39	36.038
244	13.68	35.923
343*	12.47	35.741
442	11.82	35.654
543*	11.56	35.713
643	10.86	35.684
743	10.55	35.751
844	10.21	35.795
945*	10.16	35.872
1145	11.31	36.382
1346	11.40?	36.528

DEPTH m	T °C	S o/oo
1	17.56	36.421
25	17.33	36.421
50	17.14	36.422
99	15.85	36.296
149*	15.52	36.268
198	14.75	36.122
248*	13.60	35.903
347	12.70	35.770
446*	11.79	35.651
545	11.05	35.594
644	10.89	35.591
743	12.16	36.355
842*	12.32	36.464

DEPTH m	T °C	S o/oo
1	17.67	36.437
25	17.43	36.426
50*	16.94	36.403
75	16.12	36.356
175*	14.79	36.122
275	13.41	35.873
375*	12.38	35.727
475	12.52	36.015
575*	11.82	36.133
673	12.75	36.737
770*	12.82	36.824

DEPTH m	T °C	S o/oo
1	17.47	36.053
25	16.51	36.108
49	14.95	36.080
74	14.23	36.033
98*	13.73	35.956
147	12.82	35.831
196*	12.72	35.829

DEPTH m	T °C	S o/oo
1	17.84	36.061
19	16.34	36.111
38	15.64	36.106
57*	14.50	36.065



LAT. 30° 56'N	LAT. 29° 27'N	LAT. 28° 03'N	LAT. 26° 51'N	LAT. 25° 37'N	LAT. 24° 32'N	LAT. 23° 04'N	LAT. 22° 18'N
LONG. 60° 33'W	LONG. 56° 46'W	LONG. 52° 48'W	LONG. 49° 01'W	LONG. 45° 38'W	LONG. 42° 12'W	LONG. 38° 56'W	LONG. 36° 35'W
DEPTH 5210 m	DEPTH 5860 m	DEPTH 5280 m	DEPTH 5180 m	DEPTH 3135 m	DEPTH 3595 m	DEPTH 5560 m	DEPTH 5310 m
GMT 1331 BT 65	GMT 1244 BT 83-84	GMT 1241 BT 104-105	GMT 1155 BT 124-125	GMT 1140 BT 135	GMT 1148 BT 155-156	GMT 1151 BT 177-178	GMT 0800 BT 194
1 21.72 36.842	1 21.14 36.804	1 22.09 37.040	1 22.07 37.017	1 22.91 37.210	1 22.54 37.288	1 22.23 37.282	1 22.22 37.121
135 21.52 36.845	110 20.60 36.720	95 37.043	95 21.19 36.893	100 22.86 36.988	100 21.98 37.169	105 21.75 37.220	85 22.02 37.112
160 21.22 36.794	130 20.38 36.717	120 19.53 36.652	120 19.46 36.672	125 22.02 37.076	125 20.32 36.830	125 19.81 36.862	105 21.47 37.091
185 19.89 36.658	175 18.38 36.530	175 18.28 36.513	195 18.47 36.537	200 18.63 36.567	200 18.35 36.556	165 17.95 36.536	170 19.46 36.765
275 18.22 36.498	295 17.75 36.459	265 17.67 36.453	290 17.31 36.402	300 17.46 36.420	300 16.97 36.346	250 15.47 36.105	260 17.09 36.396
365* 17.70 36.454	395* 17.21 36.378	360* 17.22 36.346	395 16.46 36.263	400 16.22 36.200	400* 15.22 36.067	335* 14.26 35.926	345 14.73 36.012
460 17.42 36.413	495 15.94 36.096	455 15.71 36.116	490 16.00 ---	500 14.30 35.920	500 13.58 35.822	445 12.99 35.753	445 12.99 35.753
550 16.59 36.264	595 --- 35.865	550* 13.77 35.832	585 13.27 35.780	600 12.41 35.653	600 11.93 35.614	535 11.34 35.550	535 11.34 35.550
645 15.17 36.030	690 12.01 35.604	650 11.73 35.554	685 11.58 ---	700 10.67 35.446	700 10.34 35.416	595 9.79 35.372	595 9.79 35.372
735* 13.48 35.780	790* 10.19 35.389	750* 10.33 35.419	780* 10.17 ---	800* 8.96 35.244	800* 8.69 35.236	725* 8.64 35.224	725* 8.64 35.224
830 11.83 35.574	890 8.48 35.251	850 8.86 35.272	880 --- ---	900 7.31 35.086	895 7.27 35.087	770 8.85 35.272	770 8.85 35.272
920* 10.15 35.398	985* 7.08 35.150	950* 7.03 35.076	975* 7.43 35.173	1000* 6.54 35.050	995* 6.50 35.040	860* 6.47 34.984	860* 6.47 34.984
1110 7.29 35.172	1185 5.70 35.130	1145 5.76 35.107	1170 5.93 35.118	1200 5.65 35.123	1195 5.44 35.044	1045 5.72 35.022	1045 5.72 35.022
1295* 5.75 ---	1380* 4.97 35.101	1340* 5.22 35.128	1365* 5.47 35.172	1400* 5.11 35.137	1395* 5.05 35.094	1230* 5.32 35.058	1230* 5.32 35.058
1385* 5.42 35.122	1745* 4.13 35.056	1550* 4.55 35.093	1565* 4.70 35.126	1595* 4.51 35.092	1595* 4.59 35.090	1580* 4.41 35.056	1580* 4.41 35.056
1570 4.80 35.091	1570 4.03 35.047	1750 4.29 35.086	1760 4.29 35.086	1795 4.06 35.061	1795 4.01 35.046	1760 4.06 35.033	1760 4.06 35.033
1750* 4.32 35.061	2035 --- 34.982	1945 --- 35.018	1960* 3.84 ---	1995 --- 35.015	1995* 3.63 35.022	1800* 3.74 35.021	1800* 3.74 35.021
1935 3.97 35.035	2630 --- 34.964	2240 3.35 34.992	2355 3.22 35.000	2195 3.33 34.998	2195 3.28 34.990	2305 3.31 34.986	2305 3.31 34.986
2210* 3.59 35.004	2930 3.20 34.984	2635* 3.05 34.982	2750* 2.96 34.977	2395* 3.13 34.976	2395* 3.09 34.973	2680* 2.96 34.966	2680* 2.96 34.966
2675 3.20 34.984	3225 --- 34.937	3030 --- 34.952	3145 --- 34.947	2595 3.01 34.963	2595 2.94 34.960	3055 2.72 34.944	3055 2.72 34.944
3145* 2.87 34.953	3620* 2.44 34.923	3425* 2.51 34.938	3540* 2.51 34.938	2795* 2.64 34.942	2795* 2.77 34.950	3430* 2.54 34.930	3430* 2.54 34.930
3610 2.57 34.932	4110 2.27 34.896	3825 2.33 34.909	3935 2.33 34.914	2995 2.64 34.942	2995 2.64 34.942	3745 2.44 34.908	3745 2.44 34.908
4085* 2.37 34.916	4610* 2.13 34.883	4330* 2.25 ---	4330* 2.25 ---	3195 2.56 34.934	3195 2.56 34.934	4220* 2.41 34.902	4220* 2.41 34.902
4565 2.30 34.901	5100 2.09 34.867	4600 2.11 34.879	4725 2.25 34.896	3395 2.52 34.921	3395 2.52 34.921	4855 2.36 34.896	4855 2.36 34.896
5600 2.13 34.862	5600 2.13 34.862	5060* 2.11 34.876	5020* 2.25 34.897	3395 2.52 34.921	3395 2.52 34.921	5345* 2.39 34.886	5345* 2.39 34.886

STATION # 80	STATION # 81	STATION # 82	STATION # 83	STATION # 84	STATION # 85	STATION # 86	STATION # 87
DATE 13 II 57	DATE 14 II 57	DATE 16 II 57	DATE 17 II 57	DATE 21 II 57	DATE 21 II 57	DATE 1 III 57	DATE 3 III 57
LAT. 21° 13'N	LAT. 20° 13'N	LAT. 18° 07'N	LAT. 16° 26'N	LAT. 14° 39'N	LAT. 14° 40'N	LAT. 8° 18'S	LAT. 8° 14'S
LONG. 33° 25'W	LONG. 30° 31'W	LONG. 25° 53'W	LONG. 21° 32'W	LONG. 17° 38'W	LONG. 17° 44'W	LONG. 7° 42'E	LONG. 9° 58'E
DEPTH 5265 m	DEPTH 4605 m	DEPTH 3940 m	DEPTH 3750 m	DEPTH -- m	DEPTH 930 m	DEPTH 4605 m	DEPTH 4160 m
GMT 1044 BT 217	GMT 1654 BT 237-238	GMT 0651 BT 272-273	GMT 1615 BT 302-303	GMT 0643 BT 326	GMT 0854 BT 327	GMT 1512 BT 521	GMT 0231 BT 533-534
1 21.84 37.078	1 21.41 36.855	1 21.68 36.091	1 20.19 35.482	1 18.50 35.540	1 18.65 35.536	1 28.53 31.105	1 28.53 31.105
145 --- 36.902	130 17.94 36.311	25 21.64 36.071	45 20.11 35.479	50 16.22 35.557	65 14.88 35.506	25 16.24 35.638	25 16.24 35.638
170 19.10 36.766	155 16.88 36.151	50 21.09 36.331	90 14.31 35.564	100 13.97 35.402	135 13.32 35.334	95 14.62 35.481	95 14.62 35.481
195 17.88 36.524	175 16.77 36.124	190 14.23 35.797	185 12.65 35.576	145 13.19 35.324	680 5.46 34.543	185 13.66 35.327	185 13.66 35.327
295 15.95 36.194	265 14.96 36.014	285 12.58 35.567	275 11.67 35.341	195 12.86 35.288	205 12.53 35.249	280 11.69 35.107	280 11.69 35.107
395 13.93 35.866	355 13.25 35.747	385 10.72 35.318	365* 10.74 35.283	245* 12.64 35.290	275 11.89 35.220	370* 9.51 34.894	370* 9.51 34.894
495 12.31 35.635	445 11.90 35.574	480 9.64 35.176	455 9.59 35.227	345* 11.25 35.290	460 11.89 35.220	460 7.57 34.726	460 7.57 34.726
595* 10.73 35.464	535* 10.56 35.434	575* 8.72 35.077	550* 8.68 35.064	420 10.42 35.219	420 10.42 35.219	550* 6.37 34.600	550* 6.37 34.600
690 9.01 35.264	625 9.14 35.289	675 7.78 34.997	640 7.86 34.998	495* 8.67 35.120	495* 8.67 35.120	640 5.57 34.550	640 5.57 34.550
790* 7.88 35.141	720* 7.78 35.112	770* 7.20 34.890	735 7.20 34.934	575 8.55 35.045	575 8.55 35.045	735* 5.02 34.516	735* 5.02 34.516
890 6.89 35.046	810 7.23 35.077	870 6.41 34.883	830 6.57 34.898	665 7.87 34.950	665 7.87 34.950	825 4.58 34.526	825 4.58 34.526
985* 6.29 35.035	900* 6.61 35.050	965* 6.09 34.901	925* 6.25 34.903	750 7.27 34.902	750 7.27 34.902	915* 4.31 34.595	915* 4.31 34.595
1185 5.56 35.069	1090 5.87 35.052	1165 5.65 34.939	1120 5.68 34.997	830* 6.74 34.868	830* 6.74 34.868	1105 4.14 34.701	1105 4.14 34.701
1385* 5.03 35.078	1280* 5.26 35.080	1360 5.08 35.069	1310* 5.06 35.039	2045* 3.28 34.940	2045* 3.28 34.940	1305* 4.02 34.850	1305* 4.02 34.850
1460* 4.92 35.092	1380* 4.88 35.083	1560* 4.54 35.051	1470* 4.32 35.014	2345 3.05 34.933	2345 3.05 34.933	1510* 3.84 34.922	1510* 3.84 34.922
1755 4.25 35.052	1560 4.31 35.051	1760 4.01 35.031	1665 3.86 34.983	2645* 2.82 34.930	2645* 2.82 34.930	1705 3.59 34.950	1705 3.59 34.950
2050* 3.61 35.016	1835* 3.77 35.015	2055* 3.53 35.003	1865* 3.59 34.983	2945 2.66 34.923	2945 2.66 34.923	1895* 3.37 34.956	1895* 3.37 34.956
2445 3.17 34.984	2115 3.45 34.990	2350 3.25 34.977	2160 3.33 34.976	3345* 2.54 34.916	3345* 2.54 34.916	2090 3.28 34.962	2090 3.28 34.962
2840* 2.86 34.964	2840* 3.17 34.984	2650* 3.00 34.961	2650* 3.08 34.953	3845* 2.46 34.907	3845* 2.46 34.907	2285* 3.10 34.952	2285* 3.10 34.952
3235 2.60 34.942	2680 2.93 34.977	2945 2.84 34.945	2750 2.89 34.945	3845* 2.38 34.895	3845* 2.38 34.895	2480 2.93 34.940	2480 2.93 34.940
3635* 2.45 34.910	2965* 2.72 34.944	3245* 2.66 34.942	3050* 2.71 34.934	1 27.11 35.876	1 27.11 35.876	2775* 2.75 34.936	2775* 2.75 34.936
4035 2.40 34.908	3245 2.54 34.925	3540 2.52 34.923	3340 2.57 34.919	25 16.75 35.608	25 16.75 35.608	3070 2.59 34.926	3070 2.59 34.926
4120* 2.39 34.913	3520 2.44 34.921	3840 2.43 34.917	3610* 2.45 34.910	50 15.22 35.550	50 15.22 35.550	3370* 2.50 34.920	3370* 2.50 34.920
4515 2.40 34.902	3795 2.40 ---	4065* 2.37 34.902	4065* 2.37 34.902	100 14.60 35.486	100 14.60 35.486	3670 2.43 34.916	3670 2.43 34.916
5000* 2.44 34.903	4065* 2.37 34.902	4065* 2.37 34.902	4065* 2.37 34.902	200 13.38 35.328	200 13.38 35.328	3870* 2.37 34.915	3870* 2.37 34.915
				300* 11.23 35.062	300* 11.23 35.062		
				500 7.44 34.680	500 7.44 34.680		
				800* 4.80 34.529	800* 4.80 34.529		
				3915* 2.37 34.894	3915* 2.37 34.894		



STATION # 88  
 DATE 3 III 57  
 LAT. 8° 14'S  
 LONG. 10° 41'E  
 DEPTH 3055 m  
 GMT 1050 BT 539

STATION # 89  
 DATE 3 III 57  
 LAT. 8° 14'S  
 LONG. 11° 28'E  
 DEPTH 2135 m  
 GMT 1803 BT 544

STATION # 90  
 DATE 4 III 57  
 LAT. 8° 15'S  
 LONG. 12° 36'E  
 DEPTH 1070 m  
 GMT 0146 BT 551

STATION # 91  
 DATE 4 III 57  
 LAT. 8° 15'S  
 LONG. 12° 48'E  
 DEPTH 330 m  
 GMT 0334 BT 552

STATION # 92  
 DATE 7 III 57  
 LAT. 8° 14'S  
 LONG. 8° 49'E  
 DEPTH 4375 m  
 GMT 0633 BT 553

STATION # 94  
 DATE 8 III 57  
 LAT. 8° 16'S  
 LONG. 6° 00'E  
 DEPTH 5035 m  
 GMT 0245 BT 563

STATION # 95  
 DATE 8 III 57  
 LAT. 8° 18'S  
 LONG. 4° 19'E  
 DEPTH 5400  
 GMT 1607 BT 573

STATION # 96  
 DATE 9 III 57  
 LAT. 8° 11'S  
 LONG. 2° 42'E  
 DEPTH 5585 m  
 GMT 0435 BT 583

STATION # 97  
 DATE 9 III 57  
 LAT. 8° 08'S  
 LONG. 1° 03'E  
 DEPTH 5190 m  
 GMT 1826 BT 595

STATION # 98  
 DATE 10 III 57  
 LAT. 8° 15'S  
 LONG. 0° 38'W  
 DEPTH 5245 m  
 GMT 0703 BT 605-606

STATION # 99  
 DATE 10 III 57  
 LAT. 8° 12'S  
 LONG. 2° 22'W  
 DEPTH 4390 m  
 GMT 1933 BT 615

STATION # 100  
 DATE 11 III 57  
 LAT. 8° 14'S  
 LONG. 4° 02'W  
 DEPTH 4320 m  
 GMT 0716 BT 624-625

STATION # 101  
 DATE 11 III 57  
 LAT. 8° 15'S  
 LONG. 5° 48'W  
 DEPTH 4585 m  
 GMT 2004 BT 634-635

STATION # 102  
 DATE 12 III 57  
 LAT. 8° 14'S  
 LONG. 7° 27'W  
 DEPTH 3955 m  
 GMT 0700 BT 644

STATION # 103  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 104  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 105  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 106  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 107  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 108  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 109  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 110  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 111  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 112  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 113  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 114  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 115  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 116  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 117  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 118  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 119  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 120  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 121  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 122  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 123  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 124  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 125  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 126  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 127  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 128  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 129  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654

STATION # 130  
 DATE 12 III 57  
 LAT. 8° 13'S  
 LONG. 9° 11'W  
 DEPTH 3590 m  
 GMT 1953 BT 654







STATION # 120				STATION # 121				STATION # 122				STATION # 123				STATION # 124				STATION # 125				STATION # 126				STATION # 127																							
DATE 22 III 57				DATE 1 IV 57				DATE 1 IV 57				DATE 1 IV 57				DATE 2 IV 57				DATE 3 IV 57				DATE 3 IV 57				DATE 4 IV 57																							
LAT. 8° 14'S				LAT. 15° 53'S				LAT. 15° 52'S				LAT. 15° 55'S				LAT. 15° 48'S				LAT. 15° 45'S				LAT. 15° 47'S				LAT. 15° 45'S																							
LONG. 34° 28'W				LONG. 38° 00'W				LONG. 37° 36'W				LONG. 36° 46'W				LONG. 35° 36'W				LONG. 34° 25'W				LONG. 32° 43'W				LONG. 30° 59'W																							
DEPTH 930 m				DEPTH 1100 m				DEPTH 3940 m				DEPTH 4050 m				DEPTH 4335 m				DEPTH 4435 m				DEPTH 4655 m				DEPTH 4860 m																							
GMT 0849 BT 794				GMT 0456 BT 796-797				GMT 0729 BT 800				GMT 1545 BT 805-806				GMT 0304 BT 813-814				GMT 0039 BT 823-824				GMT 1344 BT 834				GMT 0408 BT 846																							
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S					
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo					
1	27.93	36.680		1	27.46	37.045		1	27.30	37.230		1	27.20	37.112		1	27.20	37.112		1	27.38	37.111		1	27.70	37.045		1	27.70	37.045		1	27.24	37.106		1	27.24	37.106		1	27.13	37.115		1	27.13	37.115					
90	23.76	37.086		50	27.48	37.107		50	25.81	37.167		80	25.48	37.085		80	25.48	37.085		50	27.20	37.241		50	27.20	37.241		70	27.30	37.151		70	27.30	37.151		50	27.13	37.115		50	27.13	37.115		95	24.90	37.084		95	24.90	37.084	
180	17.99	36.050		100	23.04	37.053		100	23.28	37.106		165	22.16	36.858		165	22.16	36.858		100	23.87	37.099		100	23.87	37.099		190	21.40	36.746		190	21.40	36.746		190	21.40	36.746		190	21.40	36.746		285	13.72	35.328		285	13.72	35.328	
270	13.08	35.224		195	16.20	35.718		200	16.49	35.808		245	17.14	35.890		245	17.14	35.890		200	18.77	36.222		200	18.77	36.222		285	13.00	35.224		285	13.00	35.224		380*	10.00	34.859		380*	10.00	34.859									
365	10.16	34.863		295	13.04	35.224		295	12.55	35.160		325	13.28	35.251		325	13.28	35.251		295	13.00	35.224		295	13.00	35.224		475	7.54	34.621		475	7.54	34.621		475	7.54	34.621		475	7.54	34.621									
460*	7.00	34.535		390*	10.68	34.913		390*	10.40	34.882		405*	10.34	34.868		405*	10.34	34.868		495	7.21	34.566		495	7.21	34.566		570*	5.82	34.473		570*	5.82	34.473		570*	5.82	34.473		570*	5.82	34.473									
560*	5.18	34.412		490	8.56	34.674		485	8.50	34.674		485	8.16	34.632		485	8.16	34.632		590*	5.02	34.458		590*	5.02	34.458		765	4.02	34.387		765	4.02	34.387		765	4.02	34.387		765	4.02	34.387									
760	4.40	34.385		590*	6.83	34.501		770	5.05	34.375		765	4.30	34.347		765	4.30	34.347		790	3.79	34.435		790	3.79	34.435		955*	3.57	34.464		955*	3.57	34.464		955*	3.57	34.464		955*	3.57	34.464									
860*	4.01	34.406		785*	4.83	34.369		960	3.77	34.390		810	3.60	34.436		810	3.60	34.436		990*	3.54	34.512		990*	3.54	34.512		1150	3.70	34.658		1150	3.70	34.658		1150	3.70	34.658		1150	3.70	34.658									
				885	4.30	34.367		1150	3.81	34.578		1140	3.67	34.427		1140	3.67	34.427		1190	3.95	34.750		1190	3.95	34.750		1345*	4.01	34.850		1345*	4.01	34.850		1345*	4.01	34.850		1345*	4.01	34.850									
				1080*	3.69	34.458		1335*	4.14	34.772		1520	4.18	34.915		1520	4.18	34.915		1590	3.83	34.933		1590	3.83	34.933		1540	3.78	34.931		1540	3.78	34.931		1540	3.78	34.931		1540	3.78	34.931									
								1520	4.18	34.915		1710*	3.80	34.954		1710*	3.80	34.954		1785*	3.45	34.957		1785*	3.45	34.957		1740*	3.46	34.935		1740*	3.46	34.935		1740*	3.46	34.935		1740*	3.46	34.935									
								1895*	3.56	34.961		1895*	3.56	34.961		1895*	3.56	34.961		1895*	3.56	34.961		1910*	3.11	34.928		1910*	3.11	34.928		1910*	3.11	34.928		1910*	3.11	34.928													
								2090	3.36	34.954		2090	3.36	34.954		2090	3.36	34.954		2090	3.36	34.954		2105	2.97	34.916		2105	2.97	34.916		2105	2.97	34.916		2105	2.97	34.916													
								2280*	3.13	34.940		2270*	3.27	34.953		2270*	3.27	34.953		2270*	3.27	34.953		2300*	2.87	34.912		2300*	2.87	34.912		2300*	2.87	34.912		2300*	2.87	34.912													
								2470	3.00	34.947		2460	3.15	34.947		2460	3.15	34.947		2550	2.75	34.909		2550	2.75	34.909		2585	2.75	34.909		2585	2.75	34.909		2585	2.75	34.909		2585	2.75	34.909									
								2660*	2.91	34.937		2645*	3.04	34.940		2645*	3.04	34.940		2745*	2.77	34.926		2745*	2.77	34.926		2875*	2.69	34.909		2875*	2.69	34.909		2875*	2.69	34.909		2875*	2.69	34.909									
								2855	2.84	34.933		2835	---	34.937		2835	---	34.937		3040	2.65	34.927		3040	2.65	34.927		3170	2.64	34.907		3170	2.64	34.907		3170	2.64	34.907		3170	2.64	34.907									
								3145*	2.73	34.932		3145*	2.82	34.927		3145*	2.82	34.927		3335*	2.56	34.918		3335*	2.56	34.918		3465*	2.52	34.910		3465*	2.52	34.910		3465*	2.52	34.910		3465*	2.52	34.910									
								3440	2.33	34.901		3220	2.74	34.926		3220	2.74	34.926		3380	2.65	34.926		3380	2.65	34.926		3755	2.27	34.900		3755	2.27	34.900		3755	2.27	34.900		3755	2.27	34.900									
								3735*	1.45	34.810		3415*	2.60	34.916		3415*	2.60	34.916		3690*	2.40	34.903		3690*	2.40	34.903		4050*	1.81	34.842		4050*	1.81	34.842		4050*	1.81	34.842		4050*	1.81	34.842									
												3610	2.32	34.892		3610	2.32	34.892		3975	1.64	34.834		3975	1.64	34.834		4205	1.38	34.812		4205	1.38	34.812		4345	1.13	34.762		4345	1.13	34.762		4345	1.13	34.762		4345	1.13	34.762	
												3900*	1.45	34.801		3900*	1.45	34.801		3545	2.70	34.925		3545	2.70	34.925		4465*	0.63	34.728		4465*	0.63	34.728		4465*	0.63	34.728		4465*	0.63	34.728									



LAT.	15° 45'S	LAT.	15° 43'S	LAT.	15° 41'W	LAT.	15° 48'S	LAT.	15° 44'S	LAT.	15° 43'S	LAT.	15° 44'S	LAT.	15° 43'S	LAT.	15° 43'S	LAT.	15° 43'S	
LONG.	15° 25'W	LONG.	13° 41'W	LONG.	11° 57'W	LONG.	10° 09'W	LONG.	8° 28'W	LONG.	6° 46'W	LONG.	5° 03'W	LONG.	3° 19'W	LONG.	15° 43'S	LONG.	3° 19'W	
DEPTH	3595 m	DEPTH	3330 m	DEPTH	3365 m	DEPTH	3695 m	DEPTH	4470 m	DEPTH	3670 m	DEPTH	4130 m	DEPTH	5230 m	DEPTH	1024-1025	DEPTH	5230 m	
GMT	1551 BT 948-949	GMT	0524 BT 959	GMT	1831 BT 970-971	GMT	0621 BT 981-982	GMT	2018 BT 992-993	GMT	0850 BT 1003	GMT	1107 BT 1013-1014	GMT	0047 BT 1024-1025	GMT	0047 BT 1024-1025	GMT	0047 BT 1024-1025	
DEPTH	1	25.17	36.876	1	25.21	36.867	1	24.77	36.670	1	24.57	36.672	1	24.11	36.646	1	23.90	36.676	1	23.90
T °C	25.14	23.70	36.653	45	24.95	36.860	45	24.57	36.672	45	24.62	36.670	45	20.10	36.109	30	23.93	36.674	30	23.93
S o/oo	36.870	36.653	36.860	35	36.682	36.672	35	36.682	36.672	35	36.682	36.672	35	36.682	36.672	35	36.682	36.672	35	36.682
T °C	20.86	19.49	36.296	90	19.76	36.294	90	19.01	36.109	90	19.32	36.199	90	18.47	36.052	95	17.02	35.819	95	17.02
S o/oo	35.828	35.550	35.439	180	35.311	35.260	180	35.311	35.260	180	35.311	35.260	180	35.311	35.260	180	35.311	35.260	180	35.311
T °C	12.56	10.45	34.912	270	11.16	34.994	285	10.91	34.912	300	10.32	34.912	300	10.29	34.908	280	10.12	34.910	280	10.12
S o/oo	34.912	34.912	34.912	360	34.711	34.790	360	34.711	34.790	360	34.711	34.790	360	34.711	34.790	360	34.711	34.790	360	34.711
T °C	8.20	6.24	34.536	455	7.07	34.614	475	6.65	34.578	500	6.62	34.578	500	7.30	34.649	445	5.85	34.532	445	5.85
S o/oo	34.536	34.473	34.473	545	5.82	34.514	545	5.82	34.514	545	5.82	34.514	545	5.82	34.514	545	5.82	34.514	545	5.82
T °C	6.59	5.22	34.473	585	5.22	34.473	585	5.22	34.473	585	5.22	34.473	585	5.22	34.473	585	5.22	34.473	585	5.22
S o/oo	34.473	34.446	34.446	635	5.13	34.462	635	5.13	34.462	635	5.13	34.462	635	5.13	34.462	635	5.13	34.462	635	5.13
T °C	5.36	4.65	34.446	675	4.65	34.446	675	4.65	34.446	675	4.65	34.446	675	4.65	34.446	675	4.65	34.446	675	4.65
S o/oo	34.446	34.443	34.443	720	4.44	34.468	720	4.44	34.468	720	4.44	34.468	720	4.44	34.468	720	4.44	34.468	720	4.44
T °C	4.54	3.91	34.553	910	3.97	34.535	950	3.91	34.535	950	3.91	34.535	950	3.91	34.535	950	3.91	34.535	950	3.91
S o/oo	34.553	34.553	34.553	965	3.91	34.553	965	3.91	34.553	965	3.91	34.553	965	3.91	34.553	965	3.91	34.553	965	3.91
T °C	3.81	3.79	34.677	1100	3.81	34.634	1140	3.73	34.666	1190	3.69	34.690	1190	3.69	34.690	1190	3.69	34.690	1190	3.69
S o/oo	34.677	34.827	34.827	1295	3.72	34.787	1340	3.51	34.880	1305	3.56	34.754	1305	3.56	34.754	1305	3.56	34.754	1305	3.56
T °C	3.67	3.67	34.827	1490	3.68	34.851	1535	3.63	34.871	1500	3.56	34.848	1500	3.56	34.848	1500	3.56	34.848	1500	3.56
S o/oo	34.827	34.886	34.886	1685	3.56	34.922	1715	3.50	34.922	1715	3.50	34.922	1715	3.50	34.922	1715	3.50	34.922	1715	3.50
T °C	3.30	3.30	34.902	1875	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31
S o/oo	34.902	34.912	34.912	1875	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31	34.914	1910	3.31
T °C	2.94	2.90	34.912	2070	2.87	34.926	2295	2.72	34.909	2570	2.72	34.909	2570	2.72	34.909	2570	2.72	34.909	2570	2.72
S o/oo	34.912	34.906	34.906	2455	2.71	34.917	2490	2.74	34.906	2770	2.60	34.906	2770	2.60	34.906	2770	2.60	34.906	2770	2.60
T °C	2.79	2.79	34.904	2720	2.74	34.918	2875	2.60	34.896	2970	2.52	34.896	2970	2.52	34.896	2970	2.52	34.896	2970	2.52
S o/oo	34.904	34.914	34.914	2845	2.56	34.910	3080	2.45	34.891	3270	2.42	34.891	3270	2.42	34.891	3270	2.42	34.891	3270	2.42
T °C	2.69	2.67	34.906	3115	2.67	34.901	3375	2.47	34.892	3570	2.45	34.892	3570	2.45	34.892	3570	2.45	34.892	3570	2.45
S o/oo	34.906	34.901	34.901	3240	2.53	34.909	3695	2.46	34.893	3870	2.45	34.893	3870	2.45	34.893	3870	2.45	34.893	3870	2.45
T °C	2.68	2.68	34.909	3460	2.53	34.909	4470	2.50	34.913	4470	2.50	34.913	4470	2.50	34.913	4470	2.50	34.913	4470	2.50
S o/oo	34.909	34.889	34.889	4470	2.50	34.913	4470	2.50	34.913	4470	2.50	34.913	4470	2.50	34.913	4470	2.50	34.913	4470	2.50

STATION #	144	STATION #	145	STATION #	146	STATION #	147	STATION #	148	STATION #	149	STATION #	150	STATION #	151
DATE	17 IV 57	DATE	18 IV 57	DATE	18 IV 57	DATE	19 IV 57	DATE	20 IV 57	DATE	20 IV 57	DATE	21 IV 57	DATE	22 IV 57
LAT.	15° 44'S	LAT.	15° 40'S	LAT.	15° 44'S	LAT.	15° 41'S	LAT.	15° 43'S	LAT.	15° 43'S	LAT.	15° 40'S	LAT.	15° 42'S
LONG.	0° 08'E	LONG.	1° 50'E	LONG.	1° 50'E	LONG.	3° 38'E	LONG.	5° 18'E	LONG.	6° 59'E	LONG.	8° 46'E	LONG.	10° 30'E
DEPTH	4670 m	DEPTH	5540 m	DEPTH	5540 m	DEPTH	5520 m	DEPTH	5440 m	DEPTH	5270 m	DEPTH	4620 m	DEPTH	3440 m
GMT	1433 BT 1035-1036	GMT	0407 BT 1045-1046	GMT	1901 BT 1056-1057	GMT	0921 BT 1068	GMT	0012 BT 1079	GMT	1435 BT 1089-1090	GMT	1726 BT 1101-1102	GMT	0942 BT 1112-1113
DEPTH	1	23.64	36.611	1	23.28	36.660	1	22.72	36.272	1	23.61	36.046	1	23.28	35.262
T °C	23.60	16.77	35.979	30	23.30	36.665	40	17.49	35.711	40	19.78	35.813	25	23.32	35.273
S o/oo	36.611	36.676	36.676	85	17.16	35.946	95	14.42	35.393	95	13.70	35.309	95	13.34	35.282
T °C	12.77	12.87	35.234	175	12.87	35.234	190	12.05	35.138	190	11.54	35.095	185	11.59	35.066
S o/oo	35.011	35.025	35.025	260	11.14	35.025	280	10.42	34.924	280	10.08	34.926	280	9.57	34.850
T °C	9.52	9.53	34.864	345	9.53	34.864	370	8.51	34.772	370	7.95	34.709	370	7.82	34.710
S o/oo	34.864	34.780	34.780	430	8.12	34.711	460	7.42	34.672	460	6.72	34.618	460	6.72	34.618
T °C	6.72	6.72	34.595	520	6.44	34.582	550	6.52	34.586	550	5.82	34.550	550	5.82	34.550
S o/oo	34.595	34.486	34.486	695	5.24	34.486	735	4.89	34.479	735	4.89	34.479	735	4.89	34.479
T °C	4.99	4.99	34.512	875	4.16	34.495	920	4.10	34.519	920	4.10	34.519	920	4.10	34.519
S o/oo	34.512	34.535	34.535	1060	3.74	34.699	1110	3.80	34.721	1110	3.80	34.721	1110	3.80	34.721
T °C	3.81	3.81	34.700	1275	3.65	34.736	1305	3.64	34.770	1305	3.66	34.780	1305	3.66	34.780
S o/oo	34.700	34.846	34.846	1440	3.56	34.836	1500	3.59	34.878	1500	3.59	34.878	1500	3.59	34.878
T °C	3.59	3.59	34.846	1665	3.46	34.886	1725	3.45	34.890	1725	3.45	34.890	1725	3.45	34.890
S o/oo	34.846	34.935	34.935	1830	3.34	34.949	1910	3.40	34.922	1910	3.40	34.922	1910	3.40	34.922
T °C	3.34	3.34	34.949	2075	3.31	34.909	2200	3.27	34.926	2200	3.27	34.926	2200	3.27	34.926
S o/oo	34.909	34.910	34.910	2360	2.92	34.910	2495	2.84	34.922	2495	2.84	34.922	2495	2.84	34.922
T °C	2.85	2.85	34.922	2650	2.73	34.887	2790	2.66	34.912	2790	2.66	34.912	2790	2.66	34.912
S o/oo	34.922	34.913	34.913	3035	2.54	34.888	3080	2.54	34.907	3080	2.54	34.907	3080	2.54	34.907
T °C	2.56	2.56	34.917	3425	2.43	34.907	3475	2.41	34.900	3475	2.41	34.900	3475	2.41	34.900
S o/oo	34.917	34.906	34.906	3810	2.41	34.905	3870	2.39	34.910	3870	2.39	34.910	3870	2.39	34.910
T °C	2.48	2.48	34.906	4205	2.39	34.895	4265	2.39	34.901	4265					



STATION # 152				STATION # 153				STATION # 154				STATION # 155				STATION # 156				STATION # 157				STATION # 158				STATION # 159																							
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S													
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo													
1	28.70	33.473		1	28.70	33.988		1	27.56	35.507		1	28.33	35.361		1	27.51	35.623		1	26.57	35.635		1	26.57	35.635		1	24.95	35.557		1	24.95	35.557		1	26.57	35.635		1	26.57	35.635		1	24.95	35.557		1	24.95	35.557	
50	16.98	35.855		50	16.06	35.618		50	17.84	35.699		20	28.26	35.434		50	16.91	35.635		25	25.42	35.645		25	25.42	35.645		20	24.39	35.615		20	24.39	35.615		25	25.42	35.645		25	25.42	35.645		20	24.39	35.615		20	24.39	35.615	
100	13.69	35.408		100	14.35	35.449		100	14.57	35.445		95	15.08	35.503		100	14.46	35.450		95	14.40	35.441		95	14.40	35.441		100	13.96	35.395		100	13.96	35.395		95	14.40	35.441		95	14.40	35.441		100	13.96	35.395		100	13.96	35.395	
200	11.38	35.096		200	12.24	35.197		200	13.07	35.299		190	13.38	35.328		200	13.07	35.301		190	13.18	35.290		190	13.18	35.290		195	12.04	35.184		195	12.04	35.184		190	13.18	35.290		190	13.18	35.290		195	12.04	35.184		195	12.04	35.184	
300	10.12	34.936		300	10.26	34.952		295	10.69	35.074		285	11.67	35.139		300	11.22	35.115		285	11.50	35.128		285	11.50	35.128		290	10.59	35.038		290	10.59	35.038		285	11.50	35.128		285	11.50	35.128		290	10.59	35.038		290	10.59	35.038	
400*	8.55	34.783		400*	8.55	34.781		390	8.96	34.913		380*	9.71	35.001		400*	9.40	34.979		380*	9.79	35.029		380*	9.79	35.029		390*	9.46	34.944		390*	9.46	34.944		380*	9.79	35.029		380*	9.79	35.029		390*	9.46	34.944		390*	9.46	34.944	
500	7.05	34.640		500	6.97	34.630		490	8.12	34.801		475	8.20	34.864		500	7.97	34.861		475	8.29	34.898		475	8.29	34.898		485	8.46	34.835		485	8.46	34.835		475	8.29	34.898		475	8.29	34.898		485	8.46	34.835		485	8.46	34.835	
600*	6.06	34.558		600*	5.82	34.539		590*	7.37	34.775		575	5.88	34.779		600*	6.94	34.742		570*	5.54	34.663		570*	5.54	34.663		580*	6.79	34.728		580*	6.79	34.728		570*	5.54	34.663		570*	5.54	34.663		580*	6.79	34.728		580*	6.79	34.728	
700	4.49	34.483		700	4.98	34.498		690	6.74	34.731		790	5.51	34.666		800	5.69	34.665		760	5.54	34.663		760	5.54	34.663		775	5.29	34.711		775	5.29	34.711		760	5.54	34.663		760	5.54	34.663		775	5.29	34.711		775	5.29	34.711	
800*	4.03	34.582		800*	4.55	34.492		790*	5.80	34.699		990*	4.85	34.729		995*	5.05	34.754		950*	5.03	34.733		950*	5.03	34.733		970*	4.91	34.711		970*	4.91	34.711		950*	5.03	34.733		950*	5.03	34.733		970*	4.91	34.711		970*	4.91	34.711	
1200	3.88	34.794		1200	3.88	34.794		1190	4.50	34.836		1140	4.69	34.839		1195	4.67	34.859		1150	4.69	34.844		1150	4.69	34.844		1165	4.71	34.851		1165	4.71	34.851		1150	4.69	34.844		1150	4.69	34.844		1165	4.71	34.851		1165	4.71	34.851	
1400*	3.67	34.889		1400*	3.67	34.889		1390*	4.17	34.910		1335*	4.27	34.907		1595	3.87	34.949		1350*	4.26	34.916		1350*	4.26	34.916		1365*	4.30	34.916		1365*	4.30	34.916		1350*	4.26	34.916		1350*	4.26	34.916		1365*	4.30	34.916		1365*	4.30	34.916	
1595*	3.57	34.887		1595*	3.57	34.887		1585	3.81	34.941		1735	3.70	34.951		1790*	3.59	34.960		1750*	3.59	34.957		1750*	3.59	34.957		1560	3.96	34.944		1560	3.96	34.944		1550	4.17	34.939		1550	4.17	34.939		1560	3.96	34.944		1560	3.96	34.944	
1795*	3.45	34.927		1795*	3.45	34.927		1785*	3.57	34.948		1935*	3.40	34.945		1990*	3.38	34.971		1950*	3.46	34.965		1950*	3.46	34.965		1880*	3.51	34.954		1880*	3.51	34.954		1950*	3.46	34.965		1950*	3.46	34.965		1880*	3.51	34.954		1880*	3.51	34.954	



LAT.	8° 14'N	LAT.	8° 11'N	LAT.	8° 16'N	LAT.	8° 13'N	LAT.	8° 12'N	LAT.	8° 14'N	LAT.	8° 15'N
LONG.	35° 51'W	LONG.	37° 29'W	LONG.	39° 08'W	LONG.	40° 50'W	LONG.	42° 33'W	LONG.	44° 13'W	LONG.	47° 36'W
DEPTH	4785 m	DEPTH	4075 m	DEPTH	3825 m	DEPTH	4840 m	DEPTH	4800 m	DEPTH	4570 m	DEPTH	4470 m
GMT	2122 BT 1400	GMT	0952 BT 1408-1409	GMT	2340 BT 1418-1419	GMT	1106 BT 1429-1430	GMT	2327 BT 1439-1440	GMT	0104 BT 1458	GMT	1343 BT 1467
DEPTH	1	1	1	1	1	1	1	1	1	1	1	1	1
T °C	25.90	26.18	26.47	26.43	26.42	26.42	26.43	26.42	26.67	26.76	26.76	27.07	27.07
S ‰	36.000	35.851	35.817	36.044	36.054	36.054	36.044	36.054	36.034	35.968	35.968	35.968	35.968
DEPTH	60	65	70	80	100	100	100	100	95	95	95	70	70
T °C	24.61	26.20	26.00	26.30	26.46	26.46	26.30	26.46	25.37	25.37	25.37	25.42	25.42
S ‰	36.099	35.971	36.173	36.050	36.053	36.053	36.050	36.053	36.220	36.220	36.220	36.033	36.033
DEPTH	85	190	200	200	290	290	290	290	195	195	195	100	100
T °C	19.20	13.44	11.04	10.45	9.19	9.19	10.45	9.19	25.06	11.84	11.84	10.83	10.83
S ‰	35.994	35.355	35.100	34.935	34.861	34.861	34.935	34.861	35.211	35.211	35.211	34.975	34.975
DEPTH	170	285	295	300	385	385	300	385	290	290	290	200	200
T °C	10.27	9.64	9.34	9.05	8.02	8.02	9.05	8.02	12.41	9.52	9.52	10.83	10.83
S ‰	34.990	34.945	34.875	34.819	34.758	34.758	34.819	34.758	34.892	34.816	34.816	34.824	34.824
DEPTH	255	340*	380*	400*	480*	480*	400*	480*	390*	485*	485*	285	285
T °C	8.21	8.79	8.38	8.07	7.33	7.33	8.07	7.33	8.16	7.35	7.35	7.82	7.82
S ‰	34.755	34.829	34.762	34.731	34.700	34.700	34.731	34.700	34.862	34.721	34.721	34.729	34.729
DEPTH	430	475	495	500	575	575	500	575	485	580*	580*	490	490
T °C	8.27	8.27	7.82	7.55	6.69	6.69	7.55	6.69	7.47	6.71	6.71	7.06	7.06
S ‰	34.814	34.743	34.743	34.692	34.654	34.654	34.692	34.654	34.709	34.672	34.672	34.670	34.670
DEPTH	515*	570*	595*	600*	675*	675*	600*	675*	580*	675*	675*	590*	590*
T °C	6.98	7.27	7.49	6.66	5.80	5.80	6.66	5.80	6.60	5.84	5.84	6.43	6.43
S ‰	34.660	34.739	34.788	34.648	34.620	34.620	34.648	34.620	34.644	34.634	34.634	34.608	34.608
DEPTH	680	765	790	795	860*	860*	795	860*	770	860*	860*	785	785
T °C	5.91	5.91	5.73	5.38	4.62	4.62	5.38	4.62	5.59	5.29	5.29	5.17	5.17
S ‰	34.643	34.671	34.693	34.598	34.562	34.562	34.671	34.562	34.595	34.614	34.614	34.551	34.551
DEPTH	1040	1155	1185	1190	1250*	1250*	1190	1250*	1160	1155	1155	1185	1185
T °C	4.84	4.77	4.70	4.85	5.01	5.01	4.85	5.01	4.89	4.89	4.89	4.92	4.92
S ‰	34.739	34.879	34.892	34.822	34.836	34.836	34.879	34.836	34.860	34.899	34.899	34.846	34.846
DEPTH	1225*	1350	1385*	1390*	1440	1440	1390*	1440	1355*	1350*	1350*	1385*	1385*
T °C	4.78	4.37	4.28	4.40	4.75	4.75	4.40	4.75	4.48	4.50	4.50	4.55	4.55
S ‰	34.868	34.968	34.972	34.965	34.966	34.966	34.968	34.966	34.964	34.977	34.977	34.967	34.967
DEPTH	1410	1410	1580	1585	1740*	1740*	1585	1740*	1545	1545	1545	1585	1585
T °C	4.47	4.09	4.02	4.03	3.67	3.67	4.03	3.67	4.07	4.06	4.06	4.10	4.10
S ‰	34.970	34.975	34.983	34.983	34.965	34.965	34.983	34.965	34.985	34.985	34.985	34.978	34.978
DEPTH	1600*	1740*	1780*	1785*	1850*	1850*	1785*	1850*	1740*	1740*	1740*	1785	1785
T °C	4.04	3.72	3.66	3.67	3.88	3.88	3.67	3.88	3.65	3.73	3.73	3.76	3.76
S ‰	34.995	34.973	34.982	34.982	34.979	34.979	34.982	34.979	34.977	34.983	34.983	34.981	34.981
DEPTH	1875*	1880*	1790*	1850*	1725*	1725*	1850*	1725*	1855*	1855*	1855*	1975*	1975*
T °C	3.65	3.51	3.67	3.65	3.88	3.88	3.65	3.88	3.52	3.57	3.57	3.44	3.44
S ‰	34.973	34.980	34.971	34.960	34.979	34.979	34.980	34.979	34.972	34.984	34.984	34.974	34.974
DEPTH	2065	2080	1990	2045	2050	2050	2045	2050	2095	2095	2095	2175	2175
T °C	3.38	3.30	3.44	3.45	3.45	3.45	3.45	3.45	3.35	3.38	3.38	3.24	3.24
S ‰	34.967	34.967	34.967	34.959	34.959	34.959	34.959	34.959	34.965	34.975	34.975	34.976	34.976
DEPTH	2355*	2280*	2190*	2335*	1665*	1665*	2335*	1665*	2295*	2295*	2295*	2375*	2375*
T °C	3.08	3.14	3.24	3.09	3.80	3.80	3.09	3.80	3.16	3.20	3.20	3.09	3.09
S ‰	34.952	34.950	34.960	34.947	34.980	34.980	34.952	34.980	34.968	34.968	34.968	34.971	34.971
DEPTH	2645	2480	2390	2620	1845	1845	2620	1845	2425	2485	2485	2570	2570
T °C	2.89	2.97	3.06	2.92	3.58	3.58	2.92	3.58	3.03	3.05	3.05	2.95	2.95
S ‰	34.941	34.946	34.950	34.943	34.980	34.980	34.943	34.980	34.951	34.964	34.964	34.963	34.963
DEPTH	2935*	2675*	2590*	2905	2025*	2025*	2905	2025*	2710*	2775*	2775*	286	286
T °C	2.75	2.85	2.95	2.76	3.35	3.35	2.76	3.35	2.91	2.87	2.87	2.86	2.86
S ‰	34.932	34.932	34.936	34.936	34.973	34.973	34.936	34.973	34.943	34.954	34.954	34.948	34.948
DEPTH	3230	2875	2790	3190*	2300	2300	3190*	2300	2995	3070	3070	2970	2970
T °C	2.59	2.73	2.79	2.67	3.09	3.09	2.67	3.09	2.76	2.73	2.73	2.75	2.75
S ‰	34.919	34.930	34.943	34.926	34.985	34.985	34.926	34.985	34.934	34.945	34.945	34.920	34.920
DEPTH	3525*	3075*	2990*	3485	2575*	2575*	3485	2575*	3285*	3370*	3370*	3270*	3270*
T °C	2.49	2.63	2.69	2.51	2.94	2.94	2.51	2.94	2.61	2.56	2.56	2.55	2.55
S ‰	34.909	34.925	34.927	34.917	34.944	34.944	34.917	34.944	34.924	34.924	34.924	34.920	34.920
DEPTH	3820	3275	3190	3780	2860	2860	3780	2860	3575	3665	3665	3570	3570
T °C	2.44	2.56	2.61	2.23	2.78	2.78	2.23	2.78	2.43	2.42	2.42	2.40	2.40
S ‰	34.906	34.919	34.924	34.889	34.932	34.932	34.889	34.932	34.914	34.914	34.914	34.915	34.915
DEPTH	4110*	3475*	3390*	4075*	3140*	3140*	4075*	3140*	3865*	3960*	3960*	3865*	3865*
T °C	2.37	2.46	2.48	1.86	2.57	2.57	1.86	2.57	2.30	2.32	2.32	2.31	2.31
S ‰	34.886	34.915	34.906	34.848	34.930	34.930	34.848	34.930	34.884	34.908	34.908	34.892	34.892
DEPTH	4400	4000	3775	4375	3425	3425	4375	3425	4160	4260	4260	4165	4165
T °C	2.37	2.42	2.33	1.76	2.41	2.41	1.76	2.41	2.17	2.26	2.26	2.24	2.24
S ‰	34.893	34.908	34.894	34.853	34.912	34.912	34.853	34.912	34.884	34.896	34.896	34.899	34.899
DEPTH	4695*	4070*	3790*	4670*	3995	3995	4670*	3995	4455*	4560*	4560*	4460*	4460*
T °C	2.40	2.37	2.17	1.71	2.19	2.19	1.71	2.19	1.72	1.82	1.82	1.92	1.92
S ‰	34.892	34.907	34.879	34.840	34.909	34.909	34.840	34.909	34.843	34.834	34.834	34.862	34.862

STATION #	176	STATION #	177	STATION #	178	STATION #	179	STATION #	180	STATION #	181	STATION #	182	STATION #	183
DATE	18 V 57	DATE	19 V 57	DATE	19 V 57	DATE	19 V 57	DATE	20 V 57	DATE	20 V 57	DATE	20 V 57	DATE	20 V 57
LAT.	8° 15'N	LAT.	8° 11'N	LAT.	8° 14'N	LAT.	8° 17'N	LAT.	8° 19'N	LAT.	8° 25'N	LAT.	8° 26'N	LAT.	8° 19'N
LONG.	49° 15'W	LONG.	50° 54'W	LONG.	52° 38'W	LONG.	53° 28'W	LONG.	54° 18'W	LONG.	55° 10'W	LONG.	55° 57'W	LONG.	56° 52'W
DEPTH	4470 m	DEPTH	4480 m	DEPTH	2915 m	DEPTH	1210 m	DEPTH	1220 m	DEPTH	2910 m	DEPTH	2805 m	DEPTH	2250 m
GMT	1345 BT 1475-1476	GMT	0010 BT 1486-1487	GMT	1201 BT 1496-1497	GMT	1949 BT 1501-1502	GMT	0042 BT 1506	GMT	0403 BT 1512	GMT	1204 BT 1517-1518	GMT	1650 BT 1522-1523
DEPTH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
T °C	27.18	27.27	27.30												























LAT. 16° 13'N  
 LONG. 40° 52'W  
 DEPTH 5165 m  
 GMT 1156 BT 548

DEPTH m	T °C	S ‰
0	26.49	36.330
60	24.49	36.366
100	21.36	36.893
195	15.91	36.091
290	13.26	35.684
390*	11.30	35.403
490	9.11	35.114
585*	7.71	34.952
685	6.71	34.848
785*	6.20	34.808
980	5.74	34.899
1175	5.28	34.980
1375	4.67	35.023
1570*	4.06	34.998

LAT. 16° 15'N  
 LONG. 42° 16'W  
 DEPTH 5036 m  
 GMT 2243 BT 555

DEPTH m	T °C	S ‰
0	26.55	36.366
50	26.41	36.512
95	23.10	36.996
195	17.48	36.386
290	13.78	35.684
390*	11.68	35.485
485	9.97	35.263
580*	7.84	34.942
680	6.75	34.832
775	6.24	34.795
970	5.58	34.836
1165*	5.20	34.949
1360	4.72	34.991
1550*	4.17	34.991

LAT. 16° 15'N  
 LONG. 43° 38'W  
 DEPTH 4595 m  
 GMT 0908 BT 563

DEPTH m	T °C	S ‰
0	26.80	36.270
50	26.80	36.283
95	22.79	36.914
190	17.72	36.462
290	14.16	35.832
385*	11.07	35.686
480	9.29	35.404
580*	7.70	34.905
675	6.74	34.808
770	6.17	34.775
965	5.52	34.839
1155*	5.23	34.937
1350	4.64	34.983
1540*	4.18	34.990

LAT. 16° 14'N  
 LONG. 45° 01'W  
 DEPTH 3970 m  
 GMT 1624 BT 569

DEPTH m	T °C	S ‰
0	26.69	36.634
45	26.63	36.630
85	22.88	37.091
170	18.30	36.567
255	15.18	36.023
345*	12.99	35.686
430	11.05	35.404
515*	9.32	35.175
605	7.98	34.918
695	7.11	34.836
780	6.34	34.791
965	5.78	34.836
1105*	5.28	34.932
1300	4.80	34.989
1495*	4.38	34.997

LAT. 16° 14'N  
 LONG. 46° 25'W  
 DEPTH 2715 m  
 GMT 0308 BT 578

DEPTH m	T °C	S ‰
0	26.75	36.676
55	26.74	36.685
90	24.07	36.950
185	18.20	36.471
280	14.73	35.933
370*	12.74	35.666
465	10.38	35.308
550*	8.59	35.055
635	7.33	34.892
720	6.34	34.791
905	5.65	34.785
1105*	5.32	34.911
1300	4.86	34.979
1495*	4.48	34.997

LAT. 16° 14'N  
 LONG. 47° 48'W  
 DEPTH 3895 m  
 GMT 1223 BT 584

DEPTH m	T °C	S ‰
0	26.75	36.691
55	26.74	36.685
90	24.07	36.950
185	18.20	36.471
280	14.73	35.933
370*	12.74	35.666
465	10.38	35.308
550*	8.59	35.055
635	7.33	34.892
720	6.34	34.791
905	5.65	34.785
1105*	5.32	34.911
1300	4.86	34.979
1495*	4.48	34.997

LAT. 16° 14'N  
 LONG. 49° 10'W  
 DEPTH 3150 m  
 GMT 2250 BT 591

DEPTH m	T °C	S ‰
0	27.29	36.525
30	27.29	36.530
100	22.76	37.104
195	17.60	36.426
295	14.93	35.961
390*	12.21	35.567
490	10.04	35.272
590*	8.55	35.061
685	7.02	34.882
785*	6.04	34.784
985	5.45	34.855
1185*	5.05	34.960
1380	4.50	34.987
1580*	4.11	35.002

LAT. 16° 14'N  
 LONG. 50° 32'W  
 DEPTH 3995 m  
 GMT 0846 BT 598

DEPTH m	T °C	S ‰
0	27.48	36.356
40	27.49	36.424
100	23.54	37.029
195	19.06	36.700
295	14.95	35.974
390*	12.01	35.492
490	10.74	35.380
590*	8.35	35.020
685	7.37	34.821
785*	6.05	34.754
980	5.33	34.816
1180*	5.04	34.945
1375	4.71	34.983
1575*	4.13	34.988

LAT. 16° 14'N  
 LONG. 51° 58'W  
 DEPTH 4935 m  
 GMT 1911 BT 606

DEPTH m	T °C	S ‰
0	27.52	36.154
50	27.51	36.417
80	24.08	37.159
165	20.16	36.836
245	16.44	36.242
330*	13.50	35.692
410	11.37	35.371
495*	9.94	35.215
580	8.13	34.970
660*	6.94	34.850
770*	5.97	34.753
830	5.75	34.790
995*	5.41	34.858
1150*	5.16	34.933
1345	4.72	34.989
1535*	4.25	35.004

LAT. 16° 14'N  
 LONG. 53° 22'W  
 DEPTH 5385 m  
 GMT 0543 BT 613

DEPTH m	T °C	S ‰
0	27.35	36.302
50	27.34	36.297
80	24.60	37.108
165	20.16	36.836
245	16.49	36.242
330*	13.50	35.692
410	11.37	35.371
495*	9.94	35.215
580	8.13	34.970
660*	6.94	34.850
770*	5.97	34.753
830	5.75	34.790
995*	5.41	34.858
1150*	5.16	34.933
1345	4.72	34.989
1535*	4.25	35.004

LAT. 16° 14'N  
 LONG. 55° 31'W  
 DEPTH 5015 m  
 GMT 1507 BT 635

DEPTH m	T °C	S ‰
0	27.45	35.622
35	27.33	36.546
65	27.08	36.408
135	23.27	36.972
205	19.12	36.760
270*	16.39	36.312
340	14.48	35.985
410*	12.16	35.608
480	11.03	35.460
550*	8.99	35.130
690	6.76	34.830
830	5.70	34.723
970	5.43	34.814
1115*	5.16	34.927

LAT. 16° 16'N  
 LONG. 58° 54'W  
 DEPTH 5461 m  
 GMT 1349 BT 640

DEPTH m	T °C	S ‰
0	27.28	34.850
40	27.24	34.980
80	25.34	36.758
165	20.79	36.896
250	17.60	36.442
330	15.71	36.084
415	13.10	35.704
500*	11.12	35.446
585	7.98	34.866
675*	6.66	34.701
845	5.72	34.720
1025*	5.24	34.848
1205	5.03	34.967
1385*	4.61	35.022

LAT. 16° 16'N  
 LONG. 59° 42'W  
 DEPTH 5015 m  
 GMT 2115 BT 644

DEPTH m	T °C	S ‰
0	27.42	34.766
45	28.22	36.278
80	25.23	36.891
160	20.83	36.866
240	17.54	36.436
320*	15.09	36.011
405	11.38	35.302
485*	9.72	35.042
570	9.02	34.964
655	8.18	34.866
825	7.03	34.776
1000*	5.89	34.942
1185	5.03	35.002
1380*	4.49	35.020

LAT. 16° 16'N  
 LONG. 59° 42'W  
 DEPTH 5015 m  
 GMT 2115 BT 644

DEPTH m	T °C	S ‰
0	27.42	34.766
45	28.22	36.278
80	25.23	36.891
160	20.83	36.866
240	17.54	36.436
320*	15.09	36.011
405	11.38	35.302
485*	9.72	35.042
570	9.02	34.964
655	8.18	34.866
825	7.03	34.776
1000*	5.89	34.942
1185	5.03	35.002
1380*	4.49	35.020

LAT. 16° 17'N  
 LONG. 47° 48'W  
 DEPTH 3895 m  
 GMT 1223 BT 584

DEPTH m	T °C	S ‰
0	26.75	36.691
55	26.74	36.685
90	24.07	36.950
185	18.20	36.471
280	14.73	35.933
370*	12.74	35.666
465	10.38	35.308
550*	8.59	35.055
635	7.33	34.892
720	6.34	34.791
905	5.65	34.785
1105*	5.32	34.911
1300	4.86	34.979
1495*	4.48	34.997



STATION # 310				STATION # 311				STATION # 312				STATION # 313				STATION # 314				STATION # 315				STATION # 316				STATION # 317																			
DATE 28 XI 57				DATE 11 II 58				DATE 11 II 58				DATE 11 II 58				DATE 12 II 58				DATE 12 II 58				DATE 13 II 58				DATE 13 II 58																			
LAT. 16° 16'N				LAT. 31° 15'N				LAT. 32° 15'N				LAT. 31° 20'N				LAT. 30° 22'N				LAT. 29° 22'N				LAT. 28° 24'N				LAT. 27° 28'N																			
LONG. 61° 00'W				LONG. 68° 10'W				LONG. 64° 40'W				LONG. 64° 53'W				LONG. 65° 13'W				LONG. 65° 30'W				LONG. 65° 45'W				LONG. 65° 59'W																			
DEPTH 390 m				DEPTH 5127 m				DEPTH 1465 m				DEPTH 4500 m				DEPTH 4820 m				DEPTH 5140 m				DEPTH 5100 m				DEPTH 5160 m																			
GMT 1051 BT 650				GMT 1919 BT ---				GMT 1559 BT 26				GMT 2247 BT 30				GMT 1001 BT 39				GMT 1930 BT 45				GMT 0358 BT 51				GMT 1248 BT 56																			
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S	
m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo		m	OC	o/oo	
0	27.23	34.977	36.604	0	22.15	36.604	36.450	0	19.58	36.577	36.546	0	19.91	36.580	36.586	0	19.93	36.562	36.562	0	19.93	36.562	36.562	0	21.37	36.586	36.586																				
25	27.25	34.977	36.580	75	19.02	36.445	36.445	50	19.55	36.578	36.548	50	19.68	36.580	36.580	50	19.92	36.562	36.562	50	20.90	36.586	36.586																								
45	27.63	36.415	36.566	150	19.02	36.446	36.446	95	19.54	36.565	36.544	100	19.68	36.577	36.577	100	19.92	36.562	36.562	100	20.69	36.586	36.586																								
95	24.58	36.826	36.556	250	18.43	36.508	36.508	190	18.60	36.528	36.539	200	18.55	36.541	36.541	200	18.60	36.541	36.541	200	18.81	36.556	36.556																								
145	22.71	36.971	36.512	350	17.05	36.459	36.459	285	17.99	36.472	36.487	300	18.03	36.484	36.484	300	17.98	36.479	36.479	300	18.12	36.494	36.494																								
190*	20.18	36.754	36.460	450*	17.82	36.460	36.337	380*	17.58	36.420	36.428	390*	17.54	36.412	36.412	395*	17.43	36.398	36.398	400*	17.50	36.406	36.406																								
240	17.80	36.468	36.372	545	15.67	36.082	36.306	475	16.88	36.306	36.251	485	16.59	36.251	36.251	495	16.18	36.183	36.183	500*	16.35	36.216	36.216																								
290*	15.17	35.994	35.843	685	13.95	35.843	35.881	575*	15.43	36.054	35.987	585*	15.05	35.987	35.987	595*	14.50	35.911	35.911	600*	14.55	35.928	35.928																								
335*	13.70	35.724	35.565	745	12.15	35.558	35.881	670	13.23	35.706	35.659	680	12.59	35.659	35.659	695	12.42	35.602	35.602	700	12.31	35.592	35.592																								
			845*	9.80	35.300	35.300	765*	10.88	35.402	35.387	780*	10.34	35.375	35.375	795*	9.85	35.301	35.301	800*	10.22	35.329	35.329																									
			945	7.71	35.147	35.147	960	6.99	35.094	35.107	970	6.89	35.107	35.107	995	6.47	35.051	35.051	1000	6.88	35.032	35.032																									
			1180*	5.95	35.075	35.075	1150*	5.32	35.082	35.060	1165*	5.21	35.060	35.060	1195*	5.36	35.066	35.066	1200*	5.52	35.058	35.058																									
			1375	4.90	35.051	35.049	1345	4.80	35.079	35.074	1360	4.42	35.013	35.013	1390	4.78	35.074	35.074	1400	4.79	35.069	35.069																									
			1575*	4.32	35.026	35.012	1540*	4.04	34.983	34.978	1555*	4.00	34.978	34.978	1565*	4.14	35.019	35.019	1600*	4.29	35.046	35.046																									
			1840*	3.97	35.005	35.005	1685*	3.84	34.968	34.968	1730*	3.94	35.005	35.005	1745*	3.94	35.019	35.019	1725*	3.92	35.008	35.008																									
			2140	3.65	34.987	34.987	1880	3.67	34.965	34.965	1880	3.62	34.988	34.988	1925	3.67	34.988	34.988	1925	3.67	34.988	34.988																									
			2440	3.42	34.965	34.965	2070*	3.53	34.968	34.974	2020	3.33	34.974	34.974	2185	3.43	34.988	34.988	2185	3.43	34.988	34.988																									
			3040*	2.81	34.951	34.951	2265	3.43	34.972	34.954	2610	3.03	34.954	34.954	2425	3.23	34.974	34.974	2425	3.23	34.974	34.974																									
			3340	2.58	34.941	34.941	2555*	3.13	34.950	34.934	2750*	2.75	34.934	34.934	2780	2.86	34.943	34.943	2780	2.86	34.943	34.943																									
			3640*	2.44	34.921	34.921	2850	2.85	34.939	34.929	3210	2.51	34.923	34.929	3080*	2.67	34.931	34.931	3080*	2.67	34.931	34.931																									
			3940	2.36	34.912	34.912	3150*	2.59	34.926	34.915	3210	2.58	34.929	34.929	3120	2.72	34.932	34.932	3120	2.72	34.932	34.932																									
			4345*	2.32	34.911	34.911	3445	2.40	34.914	34.905	3515*	2.38	34.915	34.915	3360*	2.51	34.920	34.920	3360*	2.51	34.920	34.920																									
			4745	2.27	34.892	34.892	3745*	2.29	34.905	34.894	3815	2.30	34.905	34.905	3480*	2.43	34.913	34.913	3480*	2.43	34.913	34.913																									
			5150*	2.19	34.877	34.877	4045	2.25	34.896	34.881	4115*	2.25	34.881	34.881	4080*	2.36	34.908	34.908	4080*	2.36	34.908	34.908																									
							4345*	2.25	34.894	34.881	4410	2.21	34.881	34.881	4480*	2.30	34.900	34.900	4480*	2.30	34.900	34.900																									
											4715*	2.22	34.881	34.881	4740	2.22	34.881	34.881	4715	2.22	34.881	34.881																									
															5100*	2.22	34.869	34.869	5100*	2.22	34.869	34.869	5100*	2.22	34.869	34.869																					



DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
0	25.85	35.764	0	25.78	35.810	0	26.43	35.872	0	26.86	35.833	0	26.84	35.780
50	25.36	35.808	50	25.68	35.841	10	26.19	35.872	50	26.13	35.848	50	26.14	35.848
100	25.88	36.834	100	24.77	36.906	25*	25.90	35.886	100	24.49	36.808	95	24.66	36.771
200	20.50	36.832	195	20.50	36.794	40	25.73	35.898	200	19.13	36.635	190	19.92	36.712
295	17.15	36.334	295	17.60	36.435	55*	25.54	35.948	285	16.33	36.158	280	16.04	36.145
395*	15.35	36.059	395*	15.27	36.042				375*	12.84	35.587	370*	12.84	35.587
495	12.96	35.686	495	12.37	35.607				480	10.28	35.174	470	10.28	35.174
595*	10.96	35.407	595*	10.59	35.350				575*	9.29	35.099	565*	8.60	34.956
695	9.16	35.171	695	9.16	35.170				670	7.84	34.904	660	7.32	34.830
795*	8.03	35.049	795*	8.03	35.049				770*	6.20	34.812	760*	6.32	34.865?
890	5.98	34.968	890	5.40	34.924				865	5.50	34.888	855	5.98	34.781
1185*	4.87	35.012	1185*	4.46	34.954				1060*	5.06	34.931	1050*	5.65	34.871
1385	4.24	35.004	1385	4.25	34.978				1255	4.44	34.957	1245	4.69	34.946
1585*	3.87	34.992	1585*	4.12	35.000				1455*	4.19	34.974	1445*	4.29	34.967
1275*	4.52	35.021	1275*	3.93	34.994				1685*	4.02	34.981	1675*	4.14	34.969
1475	3.98	34.996	1475	3.76	34.989				1880	3.96	34.983	1870	4.08	34.973
1670*	3.79	34.988	1670*	3.77	34.986				2075*	3.95	34.984	2065*	4.06	34.978
1970	3.57	34.981	1970	3.70	34.981				2270	3.94	34.984	2260	4.05	34.978
2265	3.10	34.966	2265	3.32	34.966				2465*	3.96	34.981	2455*	4.08	34.980
2565	3.32	34.966	2565	3.10	34.959				2660	3.97	34.982	2650	4.11	34.980
2860*	2.92	34.944	2860*	2.92	34.944				2875*	4.11	34.979	2865*	4.14	34.980
3160	2.68	34.928	3160	2.54	34.922				3070	4.14	34.980	3060	4.14	34.980
3460*	2.54	34.922	3460*	2.43	34.914				3265*	4.16	34.977	3255*	4.16	34.977
3760	2.43	34.914	3760	2.42	34.910									
4055*	2.42	34.910												

LAT. 18° 07'N

LAT. 17° 53'N

LAT. 18° 07'N

LAT. 18° 20'N

LAT. 18° 28'N

LAT. 18° 42'N

LAT. 18° 55'N

LAT. 19° 06'N

LONG. 64° 25'W

LONG. 64° 18'W

LONG. 64° 16'W

LONG. 64° 17'W

LONG. 64° 18'W

LONG. 68° 18'W

LONG. 68° 14'W

LONG. 68° 12'W

DEPTH 3360 m

DEPTH 1495 m

DEPTH 2905 m

DEPTH 2340 m

DEPTH 60 m

DEPTH 215 m

DEPTH 830 m

DEPTH 4090 m

GMT 0348 BT 104

GMT 0053 BT 102

GMT 2124 BT 100

GMT 1833 BT 99

GMT 1715 BT 98

GMT 0507 BT --

GMT 0354 BT 97

GMT 0026 BT 96

STATION # 341

STATION # 340

STATION # 339

STATION # 338

STATION # 337

STATION # 336

STATION # 335

STATION # 334

DATE 24 II 58

DATE 23 II 58

DATE 23 II 58

DATE 23 II 58

DATE 23 II 58

DATE 22 II 58

DATE 22 II 58

DATE 22 II 58

LAT. 12° 30'N

LAT. 13° 05'N

LAT. 13° 47'N

LAT. 14° 32'N

LAT. 15° 08'N

LAT. 15° 48'N

LAT. 16° 25'N

LAT. 17° 05'N

LONG. 64° 32'W

LONG. 64° 32'W

LONG. 64° 28'W

LONG. 64° 41'W

LONG. 64° 34'W

LONG. 64° 26'W

LONG. 64° 28'W

LONG. 64° 32'W

DEPTH 3725 m

DEPTH 3365 m

DEPTH 3415 m

DEPTH 3735 m

DEPTH 3860 m

DEPTH 3885 m

DEPTH 3825 m

DEPTH 3745 m

GMT 0323 BT 132

GMT 2207 BT 129

GMT 1631 BT 125

GMT 0958 BT 121

GMT 0352 BT 117

GMT 2146 BT 113

GMT 1600 BT 109

GMT 0903 BT 105

DEPTH 0

DEPTH 0

DEPTH 0

DEPTH 0

DEPTH 0

DEPTH 0

DEPTH 0

DEPTH 0

26.82

27.05

26.70

26.58

26.60

26.76

26.53

26.49

35.797

35.836

35.811

35.811

35.903

35.924

35.958

35.921

26.71

26.76

26.54

26.64

26.58

26.60

26.37

26.44

35.789

35.825

35.836

35.929

36.706

35.918

35.934

35.934

25.26

26.76

23.94

25.43

25.15

25.22

25.68

25.67

36.476

36.474

36.638

36.552

36.706

36.818

36.534

36.601

17.75

18.63

16.96

17.96

17.77

18.28

19.17

19.78

35.337

36.474

36.378

36.357

36.357

36.416

36.506

36.692

13.84

12.63

12.83

13.73

14.08

14.11

16.26

15.15

35.726

35.483

35.687

35.687

35.736

35.762

36.158

35.972

35.213

35.076

35.257

35.257

35.246

35.295

35.300

35.435

10.81

10.01

10.42

10.97

10.90

11.25

10.86

10.18

34.808

34.928

34.944

34.944

34.988

35.004

34.954

35.201

7.72

7.76

8.77

8.81

9.00

7.46



STATION # 342 STATION # 343 STATION # 344 STATION # 345 STATION # 346 STATION # 347 STATION # 348 STATION # 349

DATE 24 II 58 DATE 24 II 58 DATE 24 II 58 DATE 24 II 58 DATE 24 II 58 DATE 24 II 58 DATE 24 II 58 DATE 25 II 58

LAT. 12° 06'N LAT. 11° 56'N LAT. 11° 48'N LAT. 11° 34'N LAT. 11° 18'N LAT. 11° 01'N LAT. 10° 42'N LAT. 10° 29'N

LONG. 64° 32'W LONG. 64° 31'W LONG. 64° 30'W LONG. 64° 31'W LONG. 64° 32'W LONG. 64° 31'W LONG. 64° 32'W LONG. 64° 36'W

DEPTH 1745 m DEPTH 290 m DEPTH 395 m DEPTH 1400 m DEPTH 265 m DEPTH 205 m DEPTH 565 m DEPTH 1415 m

GMT 0808 BT 135 GMT 1255 BT 136 GMT 1414 BT 137 GMT 1614 BT 138 GMT 1816 BT 139 GMT 2013 BT 140 GMT 2210 BT -- GMT 0028 BT 143

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
0	26.63	35.611	0	26.52	35.516	0	26.61	35.582	0	26.70	35.789	0	25.20	36.781	0	24.46	36.774	0	24.46	36.774
45	26.67	35.891	25	26.67	35.717	20	26.51	35.793	40	25.96	36.526	25	24.62	36.777	15	24.62	36.774	40	22.49	36.765
85	23.97	36.640	75	24.80	36.350	85	23.80	36.463	65	21.34	36.729	65	22.08	36.731	35	24.03	36.777	120	19.85	36.599
175	18.14	36.386	120	19.86	36.633	150	19.01	36.528	175	17.96	36.403	110	21.94	36.739	60	21.94	36.739	205	17.19	36.280
260	13.24	35.588	170*	18.57	36.478	210	16.52	36.154	255	14.18	35.778	160*	20.97	36.694	110	20.97	36.694	250	17.01	36.239
350*	9.84	35.041	220	16.83	36.214	280	13.40	35.631	335*	10.36	35.139	210	16.66	36.373	160*	17.92	36.373	290*	16.96	36.226
435	8.30	34.887	265*	13.55	35.664	345*	10.70	35.202	420	8.30	34.877	260*	14.00	36.234	255	17.00	36.234	380	16.90	36.209
525*	7.62	34.819							505*	7.83	34.822			355*	16.94	470*	16.85	470*	16.85	36.199
700	6.10	34.737							590	6.89	34.761			450	16.93	595*	16.85	595*	16.85	36.192
875*	5.32	34.844							680*	6.13	34.738			550*	16.92		16.85	690*	16.85	36.188
1055	4.66	34.934							765	5.79	34.761						16.86	785*	16.86	36.183
1245*	4.32	34.962							853*	5.31	34.846						16.88	880	16.84	36.183
1430	4.20	34.970							1040	4.51	34.944						16.88	1070	16.87	36.185
1630*	4.08	34.976							1230*	4.25	34.964						16.88	1170*	16.89	36.186
																	16.91	1215*	16.91	36.183
																	16.93	1265	16.93	36.185
																	16.90	1310	16.90	36.181
																	16.92	1355	16.92	36.181
																	16.93	1405	16.93	36.180
																	16.94	1415	16.94	---

STATION # 350 STATION # 351 STATION # 352 STATION # 353 STATION # 354 STATION # 355 STATION # 356 STATION # 357

DATE 25 II 58 DATE 25 II 58 DATE 25 II 58 DATE 25 II 58 DATE 27 II 58 DATE 27 II 58 DATE 27 II 58 DATE 27 II 58

LAT. 10° 25'N LAT. 10° 37'N LAT. 10° 44'N LAT. 10° 48'N LAT. 11° 22'N LAT. 11° 51'N LAT. 12° 26'N LAT. 13° 06'N

LONG. 64° 36'W LONG. 65° 34'W LONG. 65° 58'W LONG. 66° 10'W LONG. 73° 46'W LONG. 73° 46'W LONG. 73° 45'W LONG. 73° 55'W

DEPTH 210 m DEPTH 1345 m DEPTH 230 m DEPTH 195 m DEPTH 250 m DEPTH 1765 m DEPTH 2735 m DEPTH 3950 m

GMT 0346 BT 143 GMT 1332 BT 151 GMT 1447 BT 152 GMT 1447 BT 152 GMT 0632 BT 153 GMT 1447 BT 152 GMT 1447 BT 152 GMT 1345 BT 159 GMT 1940 BT 163

DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo	m	oC	o/oo
0	24.10	36.768	0	25.86	36.750	0	25.91	36.725	0	24.35	36.629	0	24.78	36.584	0	25.90	36.470	0	26.25	36.296
25	23.00	36.760	45	23.40	36.745	25	25.57	36.747	20	24.24	36.618	20	24.28	36.587	45	25.88	36.472	45	26.15	36.303
50	22.15	36.749	140*	18.99	36.517	70	21.91	36.732	40	23.76	36.630	40	21.22	36.729	95	22.68	36.757	90	23.66	36.662
100*	21.51	36.716	235	17.18	36.276	115*	20.89	36.738	90	23.25	36.663	185	17.85	36.414	185	17.93	36.450	185	17.84	36.435
150	18.64	36.470	285*	17.08	36.246	165	18.22	36.427	140*	20.20	36.632	275	13.73	35.736	280	13.88	35.752	275	15.13	35.969
200*	17.27	36.285	380	16.94	36.207	215*	17.13	36.263	190	19.02	36.530	370*	10.55	35.202	375*	11.14	35.302	370*	11.14	35.300
			480*	16.89	36.205				240*	16.01	36.104	465	8.78	34.965	470	8.84	34.974	465	9.02	34.991
			580*	16.86	36.199				555*	7.39	34.821	555*	7.48	34.831	560*	7.48	34.831	555*	7.72	34.847
			675	16.85	36.192				745	5.88	34.793	745	5.88	34.793	655	6.56	34.764	650	6.96	34.785
			770*	16.85	36.185				940*	4.98	34.906	940*	4.98	34.906	750*	5.82	34.770	745*	6.20	34.741
			865	16.84	36.184				1130	4.49	34.950	1130	4.49	34.950	845	5.35	34.857	840	5.70	34.785
			965*	16.87	36.184				1325*	4.27	34.972	1325*	4.27	34.972	940*	4.99	34.908	935*	5.30	34.869
			1065	16.87	36.188				1520	4.16	34.978	1520	4.16	34.978	1035	4.71	34.935	1030	4.86	34.916
			1160*	16.90	36.189				1720*	4.09	34.978	1720*	4.09	34.978	1225*	4.40	34.968	1220*	4.48	34.950
			1245*	16.92	36.187				1400*	4.20	34.972	1400*	4.20	34.972	1400*	4.20	34.972	1395*	4.28	34.965
			1295*	16.92	36.188				1495*	4.15	34.979	1495*	4.15	34.979	1495*	4.15	34.979	1580	4.14	34.978
			1320	16.92	36.188				1690	4.05	34.978	1690	4.05	34.978	1690	4.05	34.978	1765*	4.09	34.983
			1345*	16.93	36.188				1890*	4.05	34.986	1890*	4.05	34.986	1890*	4.05	34.986	1950	4.06	34.980
									2085	4.05	34.985	2085	4.05	34.985	2085	4.05	34.985	2140*	4.06	34.981
									2280*	4.06	34.978	2280*	4.06	34.978	2280*	4.06	34.978	2325	4.06	34.981
									2475	4.06	34.976	2475	4.06	34.976	2475	4.06	34.976	2610*	4.09	34.983
									2665*	4.10	34.979	2665*	4.10	34.979	2665*	4.10	34.979	2900	4.13	34.986
																	4.15	3185*	4.15	34.981
																	4.18	3480	4.18	34.990
																	4.22	3770*	4.22	34.987



LAT. 13° 44'N	LAT. 14° 20'N	LAT. 14° 59'N	LAT. 15° 38'N	LAT. 16° 26'N	LAT. 17° 04'N	LAT. 17° 45'N	LAT. 17° 57'N
LONG. 73° 58'W	LONG. 73° 58'W	LONG. 73° 58'W	LONG. 73° 56'W	LONG. 73° 57'W	LONG. 73° 55'W	LONG. 73° 49'W	LONG. 73° 52'W
DEPTH 3925 m	DEPTH 4185 m	DEPTH 4230 m	DEPTH 4230 m	DEPTH 3615 m	DEPTH 3635 m	DEPTH 3840 m	DEPTH 1470 m
GMT 0219 BT 168	GMT 0853 BT 172	GMT 1540 BT 177	GMT 2335 BT 181	GMT 0651 BT 186	GMT 1321 BT 190	GMT 1930 BT 194	GMT 2324 BT 195
DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S
m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo
0	26.47	26.50	26.55	26.61	26.61	26.79	26.69
45	26.48	26.48	26.45	26.60	26.60	26.63	26.63
85	26.42	26.48	26.45	26.60	26.60	26.61	26.68
125	19.95	25.58	26.45	26.58	26.60	26.61	26.68
165	19.86	25.58	26.45	26.58	26.60	26.61	26.68
205	16.03	19.86	18.74	22.30	22.15	20.64	20.93
245	16.03	19.86	18.74	22.30	22.15	20.64	20.93
285	13.17	13.10	15.50	17.80	17.66	17.22	17.55
325	12.39	13.17	15.50	17.80	17.66	17.22	17.55
365	10.15	10.66	13.32	15.50	15.82	11.69	18.06
405	8.76	8.92	11.18	11.45	9.76	9.67	15.43
445	7.68	7.33	9.35	11.45	9.76	9.67	15.43
485	6.79	6.20	8.35	9.83	8.84	8.00	12.69
525	6.15	5.99	7.70	8.84	8.00	7.65	12.69
565	5.70	5.48	7.70	8.84	8.00	7.65	12.69
605	5.35	5.05	7.70	8.84	8.00	7.65	12.69
645	4.68	4.53	4.80	4.80	4.26	4.28	4.17
685	4.37	4.35	4.55	4.55	4.10	4.08	4.17
725	4.22	4.16	4.31	4.31	4.03	4.02	4.17
765	4.13	4.10	4.15	4.15	4.04	4.04	4.17
805	4.08	4.06	4.06	4.06	4.05	4.05	4.17
845	4.07	4.06	4.06	4.06	4.05	4.05	4.17
885	4.06	4.05	4.05	4.05	4.05	4.05	4.17
925	4.11	4.08	4.11	4.11	4.10	4.11	4.17
965	4.14	4.14	4.13	4.13	4.13	4.13	4.17
1005	4.16	4.14	4.13	4.13	4.13	4.13	4.17
1045	4.20	4.17	4.13	4.13	4.13	4.13	4.17
1085	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1125	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1165	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1205	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1245	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1285	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1325	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1365	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1405	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1445	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1485	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1525	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1565	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1605	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1645	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1685	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1725	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1765	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1805	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1845	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1885	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1925	4.25	4.21	4.13	4.13	4.13	4.13	4.17
1965	4.25	4.21	4.13	4.13	4.13	4.13	4.17
2005	4.25	4.21	4.13	4.13	4.13	4.13	4.17

STATION # 366	STATION # 367	STATION # 368	STATION # 369	STATION # 370	STATION # 371	STATION # 372	STATION # 373
DATE 2 III 58	DATE 4 III 58	DATE 4 III 58	DATE 4 III 58	DATE 13 III 58	DATE 13 III 58	DATE 13 III 58	DATE 13 III 58
LAT. 18° 00'N	LAT. 20° 04'N	LAT. 20° 23'N	LAT. 21° 54'N	LAT. 16° 08'N	LAT. 16° 26'N	LAT. 17° 07'N	LAT. 17° 46'N
LONG. 73° 52'W	LONG. 73° 39'W	LONG. 73° 34'W	LONG. 73° 15'W	LONG. 84° 23'W	LONG. 84° 23'W	LONG. 84° 28'W	LONG. 84° 29'W
DEPTH 205 m	DEPTH 2805 m	DEPTH 2590 m	DEPTH 2755 m	DEPTH 275 m	DEPTH 1570 m	DEPTH 2165 m	DEPTH 5140 m
GMT 0024 BT 196	GMT 0011 BT 197	GMT 0355 BT 198	GMT 2117 BT 206	GMT 0907 BT 270	GMT 1134 BT 271	GMT 1644 BT 276	GMT 2136 BT 280
DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S	DEPTH T S
m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo	m o/c o/oo
0	26.74	26.04	24.60	24.81	26.16	26.22	26.33
25	26.78	24.58	24.55	24.04	26.21	26.17	26.19
50	26.70	24.15	24.20	23.37	25.00	25.35	25.83
75	26.70	24.15	24.20	23.37	25.00	25.35	25.83
100	22.83	20.72	20.28	21.45	17.88	17.31	18.34
125	22.09	18.22	18.03	18.69	13.74	11.88	14.06
150	22.09	18.22	18.03	18.69	13.74	11.88	14.06
175	19.77	16.92	17.09	17.42	10.90	9.14	11.41
200	19.77	16.92	17.09	17.42	10.90	9.14	11.41
225	19.77	16.92	17.09	17.42	10.90	9.14	11.41
250	19.77	16.92	17.09	17.42	10.90	9.14	11.41
275	19.77	16.92	17.09	17.42	10.90	9.14	11.41
300	19.77	16.92	17.09	17.42	10.90	9.14	11.41
325	19.77	16.92	17.09	17.42	10.90	9.14	11.41
350	19.77	16.92	17.09	17.42	10.90	9.14	11.41
375	19.77	16.92	17.09	17.42	10.90	9.14	11.41
400	19.77	16.92	17.09	17.42	10.90	9.14	11.41
425	19.77	16.92	17.09	17.42	10.90	9.14	11.41
450	19.77	16.92	17.09	17.42	10.90	9.14	11.41
475	19.77	16.92	17.09	17.42	10.90	9.14	11.41
500	19.77	16.92	17.09	17.42	10.90	9.14	11.41
525	19.77	16.92	17.09	17.42	10.90	9.14	11.41
550	19.77	16.92	17.09	17.42	10.90	9.14	11.41
575	19.77	16.92	17.09	17.42	10.90	9.14	11.41
600	19.77	16.92	17.09	17.42	10.90	9.14	11.41
625	19.77	16.92	17.09	17.42	10.90	9.14	11.41
650	19.77	16.92	17.09	17.42	10.90	9.14	11.41
675	19.77	16.92	17.09	17.42	10.90	9.14	11.41
700	19.77	16.92	17.09	17.42	10.90	9.14	11.41
725	19.77	16.92	17.09	17.42	10.90	9.14	11.41
750	19.77	16.92	17.09	17.42	10.90	9.14	11.41
775	19.77	16.92	17.09	17.42	10.90	9.14	11.41
800	19.77	16.92	17.09	17.42	10.90	9.14	11.41
825	19.77	16.92	17.09	17.42	10.90	9.14	11.41
850	19.77	16.92	17.09	17.42	10.90	9.14	11.41
875	19.77	16.92	17.09	17.42	10.90	9.14	11.41
900	19.77	16.92	17.09	17.42	10.90	9.14	11.41
925	19.77	16.92	17.09	17.42	10.90	9.14	11.41
950	19.77	16.92	17.09	17.42	10.90	9.14	11.41
975	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1000	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1025	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1050	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1075	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1100	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1125	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1150	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1175	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1200	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1225	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1250	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1275	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1300	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1325	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1350	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1375	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1400	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1425	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1450	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1475	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1500	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1525	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1550	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1575	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1600	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1625	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1650	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1675	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1700	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1725	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1750	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1775	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1800	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1825	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1850	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1875	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1900	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1925	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1950	19.77	16.92	17.09	17.42	10.90	9.14	11.41
1975	19.77	16.92	17.09	17.42	10.90	9.14	11.41
2000	19.77	16.92	17.09	17.42	10		



STATION # 374				STATION # 375				STATION # 376				STATION # 377				STATION # 378				STATION # 379				STATION # 380				STATION # 381							
DATE 14 III 58				DATE 14 III 58				DATE 14 III 58				DATE 14 III 58				DATE 15 III 58				DATE 15 III 58				DATE 15 III 58				DATE 16 III 58							
LAT. 18° 27'N				LAT. 19° 06'N				LAT. 19° 47'N				LAT. 20° 28'N				LAT. 21° 06'N				LAT. 21° 36'N				LAT. 21° 44'N				LAT. 20° 56'N							
LONG. 84° 31'W				LONG. 84° 31'W				LONG. 84° 31'W				LONG. 84° 30'W				LONG. 84° 29'W				LONG. 84° 28'W				LONG. 84° 30'W				LONG. 79° 09'W							
DEPTH 1965 m				DEPTH 4574 m				DEPTH 4574 m				DEPTH 4554 m				DEPTH 4480 m				DEPTH 3500 m				DEPTH 220 m											
GMT 0203 BT 284				GMT 0901 BT 288				GMT 1447 BT 292				GMT 2022 BT 293				GMT 0206 BT 296				GMT 0814 BT 299				GMT 1110 BT 300				GMT 1413 BT 301							
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S	
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo	
0	26.68	36.050		0	26.17	36.124		0	26.43	36.119		0	26.09	36.088		0	25.88	36.111		0	25.77	36.010		0	26.13	36.296									
30	26.58	36.081		45	25.65	36.103		50	25.71	36.194		50	25.54	36.159		50	25.40	36.138		35*	26.15	36.296													
65	25.96	36.157		95	25.04	36.144		100	25.08	36.209		100	25.01	36.170		100	24.82	36.167		60	26.11	36.329													
130	21.80	36.717		190	23.49	36.668		200	22.23	36.772		195	22.16	36.773		195	21.23	36.742		110*	24.95	36.308													
200	18.21	36.483		280	17.16	36.316		300	18.28	36.495		295	18.44	36.498		290	17.83	36.422		160	22.38	36.850													
270	16.77	36.267		375*	14.07	35.796		400*	16.18	36.150		400*	15.75	36.066		390*	15.67	36.070		210*	20.93	36.750													
340	14.70	35.909		470	10.84	35.291		500	13.54	35.642		490	12.95	35.614		485	13.16	35.651																	
415	---	35.485		565*	9.69	35.096		595*	10.73	35.389		590*	10.47	35.243		585*	11.00	35.323																	
490	10.75	35.295		660	7.77	34.907		695	8.47	34.981		690	8.24	34.958		680	8.80	35.021																	
565*	9.39	35.101		750*	6.70	34.825		795*	7.02	34.850		790*	6.73	34.852		780*	7.13	34.852																	
645	7.88	34.918		845	5.69	34.856		895	5.89	34.849		890	5.80	34.850		880	6.07	34.845																	
725*	6.97	34.854		1035*	4.75	34.932		1095*	5.13	34.909		1090*	4.72	34.938		975*	5.30	34.906																	
810	6.23	34.836		1220	4.39	34.952		1195	4.49	34.956		1290	4.35	34.961		1070	4.75	34.939																	
895*	5.55	34.867		1410	4.27	34.968		1395*	4.29	34.974		1490*	4.25	34.973		1170*	4.54	34.962																	
840*	5.93	34.845		1550*	4.20	34.984		1640*	4.20	34.978		1660*	4.19	34.978		1335*	4.33	34.964																	
915	5.20	34.874		1740	4.14	34.983		1840	4.14	34.988		1860	4.14	34.988		1535	4.22	34.976																	
1000*	4.88	34.926		2030*	4.12	34.991		2140*	4.09	34.986		2160*	4.10	34.987		1730*	4.18	34.981																	
1160	4.44	34.958		2325	4.08	34.994		2460	4.08	34.986		2480	4.08	34.987		1925	4.14	34.988																	
1330*	4.30	34.972		2625*	4.08	34.991		2735*	4.10	34.990		2760*	4.10	34.983		2125*	4.11	34.991																	
1505	4.22	34.980		2925	4.10	34.992		3035	4.12	35.006		3060	4.12	34.996		2325	4.09	34.986																	
1685*	4.16	34.982		3225*	4.15	34.988		3335*	4.16	34.993		3360*	4.17	34.991		2520*	4.10	34.992																	
				3530	4.18	35.088?		3630	4.20	34.984		3660	4.20	34.990		2725	4.11	34.992																	
				2995	4.13	34.987		3830*	4.24	34.988		3930*	4.24	34.992		2925*	4.12	34.989																	
				3295*	4.16	34.996		4130	4.26	34.993		4260	4.28	34.992		3230	4.14	34.986																	
				3595	4.19	34.993		4425	4.28	34.988		4530*	4.32	34.988																					
				3895*	4.23	34.989																													



STATION #	DATE	LAT.	LONG.	DEPTH	GMT	BT	DEPTH	T	S	DEPTH	T	S	DEPTH	T	S
		o	o	m			m	o	o	m	o	o	m	o	o
STATION # 398	DATE 20 III 58	LAT. 15° 46'N	LONG. 79° 11'W	DEPTH 1484 m	GMT 0638	BT 328	DEPTH 0	26.92	35.921	DEPTH 45	26.73	35.949	DEPTH 95	26.58	35.977
							45	26.73	35.949	45	26.58	35.977	95	26.39	36.005
							140	23.39	36.642	140	23.39	36.642	195	17.59	36.353
							235	18.53	36.504	235	17.22	36.264	295	14.08	35.788
							330*	16.29	36.159	330*	15.01	35.942	390*	10.68	35.243
							420	13.14	35.626	420	12.04	35.459	480	8.98	35.020
							515*	10.47	35.234	515*	9.75	35.131	570*	7.31	34.820
							610	8.55	34.974	610	8.37	34.937	670*	6.47	34.774
							705*	7.23	34.834	705*	7.28	34.834	765*	6.01	34.794
							895	5.60	34.831	895	6.22	34.777	955*	5.56	34.839
							1090	4.68	34.939	1090	5.72	34.824	1150*	5.18	34.892
							1280	4.38	34.954	1280	5.19	34.887	1340*	4.86	34.916
							1475*	4.20	34.970	1475*	4.81	34.926	1535*	4.62	34.940
							1775*	4.59	34.942	1775*	4.59	34.942	1835*	4.37	34.953
							1270	4.44	34.955	1270	4.44	34.955	1330	4.27	34.975
							1410	4.28	34.965	1410	4.28	34.965	1470*	4.16	34.976
							1605	4.13	34.974	1605	4.13	34.974	1665*	4.08	34.974
							2005	4.05	34.972	2005	4.05	34.972	2065*	4.04	34.978
							2205*	4.06	34.977	2205*	4.06	34.977	2265*	4.05	34.975
							2450	4.07	34.980	2450	4.07	34.980	2510*	4.06	34.982
							2605	4.07	34.975	2605	4.07	34.975	2665*	4.07	34.978
							2755*	4.10	34.973	2755*	4.10	34.973	2815*	4.10	34.971
							2910*	4.09	34.981	2910*	4.09	34.981	2970*	4.11	35.013?
							3060*	4.12	34.978	3060*	4.12	34.978	3120*	4.14	34.980
							3210*	4.14	34.982	3210*	4.14	34.982	3270*	4.18	34.981
							3360*	4.18	34.982	3360*	4.18	34.982	3420*	4.17	34.981
							3470*	4.17	34.981	3470*	4.17	34.981	3530*	4.17	34.981
							3580*	4.17	34.981	3580*	4.17	34.981	3640*	4.17	34.981
							3690*	4.17	34.981	3690*	4.17	34.981	3750*	4.17	34.981
							3800*	4.17	34.981	3800*	4.17	34.981	3860*	4.17	34.981
							3910*	4.17	34.981	3910*	4.17	34.981	3970*	4.17	34.981
							4020*	4.17	34.981	4020*	4.17	34.981	4080*	4.17	34.981
							4130*	4.17	34.981	4130*	4.17	34.981	4190*	4.17	34.981
							4240*	4.17	34.981	4240*	4.17	34.981	4300*	4.17	34.981
							4350*	4.17	34.981	4350*	4.17	34.981	4410*	4.17	34.981
							4460*	4.17	34.981	4460*	4.17	34.981	4520*	4.17	34.981
							4570*	4.17	34.981	4570*	4.17	34.981	4630*	4.17	34.981
							4680*	4.17	34.981	4680*	4.17	34.981	4740*	4.17	34.981
							4790*	4.17	34.981	4790*	4.17	34.981	4850*	4.17	34.981
							4840*	4.17	34.981	4840*	4.17	34.981	4900*	4.17	34.981
							4950*	4.17	34.981	4950*	4.17	34.981	5010*	4.17	34.981
							5060*	4.17	34.981	5060*	4.17	34.981	5120*	4.17	34.981
							5170*	4.17	34.981	5170*	4.17	34.981	5230*	4.17	34.981
							5280*	4.17	34.981	5280*	4.17	34.981	5340*	4.17	34.981
							5390*	4.17	34.981	5390*	4.17	34.981	5450*	4.17	34.981
							5500*	4.17	34.981	5500*	4.17	34.981	5560*	4.17	34.981
							5610*	4.17	34.981	5610*	4.17	34.981	5670*	4.17	34.981
							5720*	4.17	34.981	5720*	4.17	34.981	5780*	4.17	34.981
							5830*	4.17	34.981	5830*	4.17	34.981	5890*	4.17	34.981
							5940*	4.17	34.981	5940*	4.17	34.981	6000*	4.17	34.981
							6050*	4.17	34.981	6050*	4.17	34.981	6110*	4.17	34.981
							6160*	4.17	34.981	6160*	4.17	34.981	6220*	4.17	34.981
							6270*	4.17	34.981	6270*	4.17	34.981	6330*	4.17	34.981
							6380*	4.17	34.981	6380*	4.17	34.981	6440*	4.17	34.981
							6490*	4.17	34.981	6490*	4.17	34.981	6550*	4.17	34.981
							6600*	4.17	34.981	6600*	4.17	34.981	6660*	4.17	34.981
							6710*	4.17	34.981	6710*	4.17	34.981	6770*	4.17	34.981
							6820*	4.17	34.981	6820*	4.17	34.981	6880*	4.17	34.981
							6930*	4.17	34.981	6930*	4.17	34.981	6990*	4.17	34.981
							7040*	4.17	34.981	7040*	4.17	34.981	7100*	4.17	34.981
							7150*	4.17	34.981	7150*	4.17	34.981	7210*	4.17	34.981
							7260*	4.17	34.981	7260*	4.17	34.981	7320*	4.17	34.981
							7370*	4.17	34.981	7370*	4.17	34.981	7430*	4.17	34.981
							7480*	4.17	34.981	7480*	4.17	34.981	7540*	4.17	34.981
							7590*	4.17	34.981	7590*	4.17	34.981	7650*	4.17	34.981
							7700*	4.17	34.981	7700*	4.17	34.981	7760*	4.17	34.981
							7810*	4.17	34.981	7810*	4.17	34.981	7870*	4.17	34.981
							7920*	4.17	34.981	7920*	4.17	34.981	7980*	4.17	34.981
							8030*	4.17	34.981	8030*	4.17	34.981	8090*	4.17	34.981
							8140*	4.17	34.981	8140*	4.17	34.981	8200*	4.17	34.981
							8250*	4.17	34.981	8250*	4.17	34.981	8310*	4.17	34.981
							8360*	4.17	34.981	8360*	4.17	34.981	8420*	4.17	34.981
							8470*	4.17	34.981	8470*	4.17	34.981	8530*	4.17	34.981
							8580*	4.17	34.981	8580*	4.17	34.981	8640*	4.17	34.981
							8690*	4.17	34.981	8690*	4.17	34.981	8750*	4.17	34.981
							8800*	4.17	34.981	8800*	4.17	34.981	8860*	4.17	34.981
							8910*	4.17	34.981	8910*	4.17	34.981	8970*	4.17	34.981
							9020*	4.17	34.981	9020*	4.17	34.981	9080*	4.17	34.981
							9130*	4.17	34.981	9130*	4.17	34.981	9190*	4.17	34.981
							9240*	4.17	34.981	9240*	4.17	34.981	9300*	4.17	34.981
							9350*	4.17	34.981	9350*	4.17	34.981	9410*	4.17	34.981
							9460*	4.17	34.981	9460*	4.17	34.981	9520*	4.17	34.981
							9570*	4.17	34.981	9570*	4.17	34.981	9630*	4.17	34.981
							9680*	4.17	34.981	9680*	4.17	34.981	9740*	4.17	34.981
							9790*	4.17	34.981	9790*	4.17	34.981	9850*	4.17	34.981
							9900*	4.17	34.981	9900*	4.17	34.981	9960*	4.17	34.981
							10010*	4.17	34.981	10010*	4.17	34.981	10070*	4.17	34.981
							10120*	4.17							



















STATION # 483  
DATE 21 XI 58  
LAT. 00° 14'S  
LONG. 19° 00'W  
DEPTH 4800 m  
GMT 2322 BT 971

DEPTH m	T °C	S o/oo
0	25.05	35.977
50	24.00	35.967
100	17.12	35.884
195	12.48	35.217
295	9.86	34.920
395*	7.68	34.686
495	6.74	34.708
590*	5.89	34.595
690	5.39	34.504
790*	4.67	34.508
890	4.40	34.609
1190*	4.39	34.806
1385	4.24	34.933
1585*	4.03	34.971
1725*	3.84	34.975
2020	3.44	34.964
2320*	3.16	34.952
2615	2.84	34.933
2915*	2.68	34.918
3210	2.57	34.914
3510*	2.49	34.911
3805	2.31	34.895
4105*	1.74	34.833
4505	1.07	34.757
4800*	1.05	34.750

STATION # 484  
DATE 22 XI 58  
LAT. 00° 14'S  
LONG. 20° 17'W  
DEPTH 3695 m  
GMT 0853 BT 978

DEPTH m	T °C	S o/oo
0	25.39	35.918
50	25.30	35.949
90	19.81	36.167
195	12.66	35.441
295	10.16	34.948
395*	7.90	34.708
495	6.74	34.596
590*	5.94	34.525
690	5.63	34.516
790*	4.94	34.495
890	4.41	34.806
1190*	4.39	34.806
1385	4.26	34.919
1585*	3.98	34.967
1765*	3.76	34.975
1965	3.42	34.961
2165*	3.24	34.952
2360	2.97	34.940
2560	2.85	34.932
2760	2.80	34.927
2960*	2.66	34.923
3160	2.57	34.918
3360	2.54	34.920
3560	2.48	34.910
3860*	2.46	34.910

STATION # 485  
DATE 22 XI 58  
LAT. 00° 17'S  
LONG. 21° 39'W  
DEPTH 3650 m  
GMT 1828 BT 985

DEPTH m	T °C	S o/oo
0	25.66	36.058
40	25.29	36.152
85	22.27	35.879
170	12.56	35.226
260	11.74	35.126
350*	9.02	34.826
440*	6.21	34.540
530*	5.78	34.524
620	5.17	34.497
710*	4.43	34.564
895	4.39	34.685
1075*	4.39	34.685
1255	4.27	34.922
1435*	4.21	34.941
1610*	3.90	34.973
1800	3.68	34.969
1990*	3.50	34.966
2180	3.33	34.959
2370*	3.05	34.945
2560	2.87	34.933
2750	2.76	34.926
2940	2.62	34.916
3130*	2.55	34.912
3325*	2.55	34.911
3615	2.48	34.911

STATION # 486  
DATE 23 XI 58  
LAT. 00° 12'S  
LONG. 23° 01'W  
DEPTH 3825 m  
GMT 0404 BT 992

DEPTH m	T °C	S o/oo
0	25.35	36.154
50	25.36	36.144
100	21.86	35.847
200	12.46	35.214
295	9.91	34.923
395*	8.64	34.780
495	6.57	34.578
595*	5.95	34.523
695	5.32	34.503
795*	4.63	34.511
895	4.37	34.641
1190*	4.49	34.780
1390	4.27	34.922
1590*	4.00	34.971
1805*	3.68	34.969
2000	3.44	34.961
2200*	3.22	34.951
2400	3.04	34.940
2595*	2.90	34.933
2795	2.80	34.925
2995*	2.67	34.919
3195	2.58	34.916
3395*	2.52	34.909
3595	2.47	34.906
3795*	2.45	34.906

STATION # 487  
DATE 23 XI 58  
LAT. 00° 12'S  
LONG. 24° 20'W  
DEPTH 2575 m  
GMT 1324 BT 999

DEPTH m	T °C	S o/oo
0	25.57	36.182
75	25.18	36.105
120	20.82	36.130
190	12.35	35.302
280	10.47	34.983
375*	8.66	34.804
470	7.16	34.625
570*	6.30	34.549
665	5.53	34.509
765*	4.73	34.498
865	4.50	34.525
955	4.34	34.638
1150*	4.40	34.762
1345	4.30	34.908
1540*	4.09	34.965
1540*	4.00	34.970
1690	3.75	34.972
1885*	3.69	34.968
2080	3.41	34.958
2275*	3.15	34.948
2475	2.95	34.946
2675*	2.92	34.934
2875	2.77	34.926
3050*	2.66	34.919
3250*	2.53	34.917
3515*	2.43	34.912

STATION # 488  
DATE 23 XI 58  
LAT. 00° 14'S  
LONG. 25° 40'W  
DEPTH 3050 m  
GMT 2238 BT 1006

DEPTH m	T °C	S o/oo
0	25.52	36.092
45	25.26	36.053
95	22.54	36.365
190	12.35	35.199
285	10.13	34.946
380*	8.64	34.779
480	6.67	34.574
575*	6.12	34.532
670	5.40	34.509
770*	4.84	34.517
865	4.50	34.525
955	4.34	34.638
1150*	4.43	34.762
1345	4.30	34.908
1540*	4.09	34.965
1590*	4.00	34.970
1745	3.75	34.972
1940*	3.49	34.968
2140	3.29	34.958
2335*	3.10	34.952
2535	3.01	34.946
2730*	2.87	34.942
2925	2.67	34.926
3125*	2.60	34.919
3320	2.53	34.917
3515*	2.43	34.912

STATION # 489  
DATE 27 XI 58  
LAT. 00° 16'S  
LONG. 37° 41'W  
DEPTH 4435 m  
GMT 2203 BT 1064

DEPTH m	T °C	S o/oo
0	25.48	35.954
55	25.11	35.878
95	21.71	36.149
190	12.70	35.250
285	10.41	34.987
380*	8.48	34.766
480	6.67	34.574
575*	6.12	34.532
670	5.40	34.509
770*	4.84	34.517
865	4.50	34.525
955	4.34	34.638
1150*	4.43	34.762
1355	4.26	34.862
1555*	4.16	34.955
1550*	4.00	34.973
1745	3.72	34.978
1940*	3.49	34.968
2140	3.29	34.958
2335*	3.10	34.952
2535	3.01	34.946
2730*	2.87	34.942
2925	2.67	34.926
3125*	2.60	34.919
3320	2.53	34.917
3515*	2.43	34.912

STATION # 490  
DATE 24 XI 58  
LAT. 00° 13'S  
LONG. 28° 21'W  
DEPTH 3830 m  
GMT 1644 BT 1020

DEPTH m	T °C	S o/oo
0	26.42	35.906
65	24.95	36.214
135	17.25	35.884
190	12.96	35.285
285	11.78	35.129
380*	9.20	34.846
480	7.02	34.602
575*	6.12	34.546
670	5.03	34.500
770*	4.79	34.512
865	4.38	34.626
965	4.41	34.774
1160*	4.43	34.762
1355	4.26	34.929
1555*	4.08	34.966
1550*	3.78	34.975
1930	3.60	34.969
2125*	3.35	34.956
2320	3.14	34.944
2520*	3.01	34.944
2715	2.89	34.938
2910*	2.76	34.932
3105	2.64	34.918
3400*	2.50	34.913
3695	2.35	34.899
3830	2.29	34.894

STATION # 491  
DATE 25 XI 58  
LAT. 00° 14'S  
LONG. 28° 44'W  
DEPTH 4335 m  
GMT 0218 BT 1027

DEPTH m	T °C	S o/oo
0	26.16	36.001
50	25.82	36.099
100	23.54	36.456
195	12.33	35.198
295	11.28	35.070
390*	8.09	34.715
490	6.80	34.593
585*	5.62	34.505
685	5.19	34.508
785*	4.77	34.514
880	4.43	34.637
1175*	4.43	34.790
1375	4.25	34.929
1570*	4.01	34.974
1720*	3.77	34.977
1915	3.57	34.970
2115*	3.39	34.962
2410	3.11	34.948
2710*	2.89	34.941
3005	2.71	34.924
3305*	2.55	34.918
3600	2.38	34.906
3800*	2.19	34.888
4200	1.44	34.804

STATION # 492  
DATE 25 XI 58  
LAT. 00° 15'S  
LONG. 31° 02'W  
DEPTH 4365 m  
GMT 1112 BT 1033

DEPTH m	T °C	S o/oo
0	26.08	36.220
80	25.59	35.332
140	15.20	35.554
200	12.30	35.194
295	10.49	34.984
395*	8.58	34.772
495	7.09	34.608
595*	5.70	34.484
695	5.15	34.506
795*	4.63	34.512
890	4.38	34.629
1190*	4.41	34.806
1390	4.25	34.929
1590*	3.91	34.972
1775*	3.67	34.974
1975	3.54	34.970
2170*	3.26	34.955
2370	3.05	34.947
2665*	2.88	34.942
2865	2.71	34.926
3060*	2.54	34.916
3260*	2.40	34.910
3460*	2.32	34.902
3660	2.19	34.888
4160	1.34	34.793
4360*	0.99	34.753

STATION # 493  
DATE 25 XI 58  
LAT. 00° 15'S  
LONG. 32° 19'W  
DEPTH 4045 m  
GMT 2041 BT 1039

DEPTH m	T °C	S o/oo
0	26.55	36.235
65	26.14	36.281
125	17.37	35.879
190	12.50	35.216
285	11.09	35.046
380*	8.34	34.735
475	7.40	34.624
570*	5.99	34.528
665	5.24	34.500
765*	4.67	34.510
860	4.45	34.788
1155*	4.45	34.788
1350	4.27	34.916
1550*	4.06	34.966
1755*	3.81	34.977
1955	3.55	34.970
2150*	3.37	34.959
2345	3.06	34.945
2545*	2.92	34.937
2740	2.79	34.931
2940*	2.73	34.925
3140	2.61	34.917
3340*	2.48	34.913
3540*	2.48	34.902
3840	2.33	34.892
4040*	1.88	34.852

STATION # 494  
DATE 26 XI 58  
LAT. 00° 10'S  
LONG. 33° 40'W  
DEPTH 4410 m  
GMT 0613 BT 1045

DEPTH m	T °C	S o/oo
0	26.57	36.130
70	26.22	36.305
140	16.51	35.770
195	12.18	35.177
295	11.41	35.082
395*	8.47	34.752
495	6.86	34.592
590*	5.71	34.514
690	5.11	34.497
790*	4.67	34.519
890	4.40	34.688
1185*	4.46	34.808
1385	4.27	34.926
1585*	4.04	34.970
1815*	3.73	34.979
2015	3.52	34.975
2215*	3.34	34.964
2410	2.99	34.946
2610*	2.84	34.941
2810</		



LAT. 00° 15'S  
 LONG. 40° 21'W  
 DEPTH 3965 m  
 GMT 1622 BT 1076

LAT. 00° 15'W  
 LONG. 41° 41'W  
 DEPTH 3805 m  
 GMT 0113 BT 1082

LAT. 00° 15'S  
 LONG. 42° 42'W  
 DEPTH 3065 m  
 GMT 0917 BT 1088

LAT. 00° 14'S  
 LONG. 43° 21'W  
 DEPTH 3220 m  
 GMT 1532 BT 1091

LAT. 00° 14'S  
 LONG. 43° 48'W  
 DEPTH 2940 m  
 GMT 2022 BT 1093

LAT. 00° 14'S  
 LONG. 44° 06'W  
 DEPTH 170 m  
 GMT 0007 BT 1095

DEPTH m	T °C	S °/∞
0	27.38	36.056
50	26.77	36.177
95	25.41	36.393
145	20.98	36.422
195	12.63	35.224
290*	11.14	35.045
385	8.26	34.691
485*	7.00	34.594
580	6.02	34.539
680*	5.33	34.508
775	4.92	34.507
875*	4.55	34.531
970	4.44	34.513
1165*	4.46	34.781
1350*	4.36	34.900
1550	4.26	34.966
1745*	3.86	34.985
1940	3.47	34.976
2235*	3.23	34.966
2530	3.02	34.952
2825*	2.82	34.939
3120	2.63	34.928
3415*	2.46	34.915
3710	2.34	34.908
3905*	2.22	34.903

DEPTH m	T °C	S °/∞
0	27.01	36.100
35	26.99	36.106
70	26.51	36.267
105	25.87	36.376
140	---	36.636
195	---	36.636
210*	12.52	35.198
285	10.49	34.960
360*	9.19	34.816
435	7.57	34.638
510*	6.71	34.579
590	5.96	34.532
675*	5.31	34.508
760	5.00	34.500
935*	4.45	34.561
1185*	4.45	34.793
1385	4.32	34.940
1590*	4.15	34.977
1795	3.92	34.982
2100*	3.36	34.966
2400	3.16	34.958
2700*	2.91	34.946
2995	2.71	34.934
3290*	2.59	34.925
3580	2.40	34.915
3770	2.37	34.910

DEPTH m	T °C	S °/∞
0	26.94	36.110
45	26.89	36.132
90	26.40	36.341
140	20.14	36.332
190	---	35.261
270*	9.48	34.840
360	8.26	34.707
445*	7.21	34.615
525	5.79	34.522
610*	5.03	34.503
695	4.66	34.510
775*	4.47	34.549
860	4.43	34.624
1030*	4.46	34.780
1195*	4.41	34.851
1310	4.42	34.900
1410*	4.38	34.938
1605	4.06	34.982
1805*	3.84	34.980
2005	3.34	34.968
2210*	3.15	34.960
2415	3.05	34.953
2620*	2.95	34.947
2825	2.80	34.941
3030*	2.65	34.933

DEPTH m	T °C	S °/∞
0	27.03	36.138
45	26.88	36.160
90	26.65	36.253
135	20.37	36.352
180	15.59	35.638
270*	11.69	35.082
360	9.40	34.836
445*	7.11	34.604
525	5.91	34.522
610*	5.47	34.516
695	4.97	34.502
775*	4.64	34.516
860	4.47	34.537
1030*	4.39	34.657
1195*	4.45	34.804
1390	4.36	34.912
1585*	4.19	34.984
1775	3.83	34.981
1970*	3.59	34.977
2165	3.34	34.969
2360*	3.12	34.965
2555	3.01	34.953
2750*	2.84	34.944
2940	2.73	34.938
3125*	2.63	34.931

DEPTH m	T °C	S °/∞
0	26.98	36.192
95	26.28	36.306
130	21.78	36.293
160	16.64	35.767
190	14.90	35.538
280*	12.17	35.142
375	8.57	34.745
465*	6.88	34.588
560	5.37	34.464
655*	4.76	34.441
745	4.80	34.502
845*	4.46	34.529
940	4.42	34.566
1135*	4.46	34.773
1290*	4.43	34.853
1470	4.32	34.960
1655*	4.17	34.990
1835	3.86	34.989
2020*	3.39	34.973
2210	3.24	34.968
2405*	3.11	34.959
2600	2.90	34.950
2800*	2.79	34.947

DEPTH m	T °C	S °/∞
0	26.68	36.238
25	26.72	36.235
50	26.72	36.240
70	26.71	36.237
85	26.68	36.243
105*	26.53	36.245
120	26.4 ?	36.246
140	26.5 ?	36.246







LAT.	LONG.	DEPTH	GMT	LAT.	LONG.	DEPTH	GMT	LAT.	LONG.	DEPTH	GMT	LAT.	LONG.	DEPTH	GMT	LAT.	LONG.	DEPTH	GMT
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208
46° 02'N	37° 34'W	4539 m	1800	46° 09'N	36° 05'W	4276-4305 m	0308	46° 15'N	33° 21'W	3875 m	1914	46° 30'N	33° 05'W	3477 m	2040	46° 57'N	30° 25'W	3411-3477 m	1208

DEPTH	T °C	S ‰	DEPTH	T °C	S ‰	DEPTH	T °C	S ‰	DEPTH	T °C	S ‰	DEPTH	T °C	S ‰	DEPTH	T °C	S ‰	DEPTH	T °C	S ‰
1	13.07	35.825	1	11.89	35.651	1	12.44	35.719	1	11.78	35.580	1	13.41	35.879	1	12.29	35.632	1	13.06	35.787
49	12.82	35.786	49	11.91	35.650	49	12.29	35.688	49	11.86	35.598	49	13.38	35.873	49	12.25	35.645	50	13.06	35.784
98	12.30	35.670	98	11.91	35.650	98	11.61	35.573	98	11.61	35.564	98	13.37	35.876	98	12.06	35.645	100	12.81	35.759
196	12.22	35.657	196	10.88	35.485	197	11.14	35.504	197	10.59	35.406	197	12.99	35.801	197	11.56	35.561	200	12.39	35.694
295	12.12	35.675	292	10.35	35.389	296	10.68	35.409	293	10.59	35.406	293	12.89	35.775	296	10.48	35.373	299	11.95	35.631
394*	12.07	35.675	388*	8.55	35.131	395*	8.65	35.137	390*	7.94	35.208	393*	12.83	35.682	393*	9.20	35.209	399*	11.44	35.554
493	11.61	35.588	483	6.77	34.933	494	7.11	34.967	494	6.56	34.973	494	10.71	35.383	494	7.96	35.114	498	11.03	35.476
592*	9.76	35.203	578*	5.62	34.939	592*	6.30	34.976	592*	5.66	34.987	592*	8.73	35.178	592*	6.83	35.087	596*	9.84	35.329
692	8.03	35.018	674	4.87	34.928	691	5.37	35.029	691	5.20	34.986	691	6.78	35.082	691	6.17	35.082	694	8.49	35.221
791	6.29	34.846	770	4.82	34.939	790	5.55	35.058	790	5.20	34.986	790	6.78	35.082	790	6.17	35.082	794	8.49	35.221
891	5.52	34.943	868	5.02	34.929	888	5.05	35.041	888	4.50	34.999	888	4.50	34.999	888	5.08	35.044	893	6.35	35.120
990*	5.20	34.998	968*	4.46	34.949	1000*	4.13	34.955	1000*	4.10	34.960	1000*	4.10	34.960	1000*	4.25	35.011	994*	6.05	35.153
1090	4.97	35.014	1068	4.21	34.943	1086	4.28	34.986	1086	4.10	34.960	1086	4.28	34.986	1086	4.25	35.011	1094	6.05	35.153
1189*	4.53	34.987	1168*	3.89	34.935	1184*	4.06	34.969	1184*	3.82	34.938	1184*	3.82	34.938	1184*	3.95	34.954	1195*	5.35	35.085
1199*	4.40	34.970	1197*	3.99	34.942	1285*	3.67	34.926	1271*	4.00	34.964	1330*	3.67	34.931	1291*	4.07	34.965	1290*	3.77	34.941
1288	4.16	34.957	1531	3.62	34.925	1619	3.49	34.915	1467	3.75	34.947	1630	3.50	34.924	1485	3.70	34.943	1490	3.61	34.926
1476*	3.88	34.940	1831*	3.44	34.923	1917*	3.44	34.925	1663*	3.59	34.937	1930*	3.46	34.935	1678*	3.70	34.946	1690*	3.53	34.927
1775	3.60	34.924	2127	3.45	34.938	2215	3.36	34.939	1858	3.50	34.938	2230	3.35	34.943	1866	3.53	34.940	1984	3.46	34.941
2073	3.50	34.921	2423	3.36	34.941	2513	3.23	34.942	2052	3.45	34.943	2530*	3.22	34.944	2155*	3.44	34.939	2278*	3.36	34.946
2472	3.42	34.940	2719	3.19	34.945	2812	3.00	34.942	2345	3.27	34.952	2830	2.99	34.945	2456	3.28	34.948	2576	3.16	34.948
2871*	3.16	34.944	3014*	2.97	34.942	3111*	2.75	34.934	2638*	3.06	34.949	3130*	2.76	34.939	2757*	3.05	34.947	2874*	2.96	34.947
3314	2.74	34.934	3314	2.49	34.924	2940	2.87	34.945	2830	2.76	34.945	3430	2.55	34.930	3061	2.86	34.945	3173	2.82	34.944
3670*	2.58	34.924	3614*	2.40	34.922	3711*	2.30	34.915	3244*	2.66	34.935	3730*	2.43	34.923	3366*	2.69	34.945	3472*	2.69	34.944
4068	2.33	34.913	3916	2.28	34.916	4011	2.24	34.912	3546	2.44	34.926	4044*	2.43	34.923	3666*	2.69	34.945	3472*	2.69	34.944
4466*	2.20	34.911	4218*	2.16	34.912	4304*	2.22	34.911	3854*	2.36	34.921	4342*	2.36	34.912	3954*	2.59	34.945	3472*	2.69	34.944

STATION #	DATE	LAT.	LONG.	DEPTH	GMT	STATION #	DATE	LAT.	LONG.	DEPTH	GMT	STATION #	DATE	LAT.	LONG.	DEPTH	GMT
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929
3533	23 IV 57	47° 21'N	25° 32'W	3297 m	1527	3534	24 IV 57	47° 28'N	24° 01'W	3405 m	0038	3535	24 IV 57	47° 35'N	22° 28'W	4491 m	0929











STATION #	DATE	LAT.	LONG.	DEPTH	GMT	DEPTH	T	S	DEPTH	T	S
#				m		m	oC	o/oo	m	oC	o/oo
3610	17 X 57	24° 37'N	51° 55'W	4995	1539	1	26.65	37.131	1	26.65	37.131
						50	24.34	36.897	49	24.34	36.897
						100	22.94	37.042	99	22.94	37.042
						199*	18.27	36.526	197*	18.27	36.526
						299	17.43	36.414	296	17.43	36.414
						398*	16.31	36.221	395*	16.31	36.221
						494	14.57	35.951	494	14.57	35.951
						592*	12.72	35.697	592*	12.72	35.697
						691	10.87	35.470	691	10.87	35.470
						797*	8.98	35.222	790*	8.98	35.222
						888	7.33	35.094	888	7.33	35.094
						987*	6.32	35.041	987*	6.32	35.041
						1184	5.23	35.043	1184	5.23	35.043
						1394*	4.61	35.045	1394*	4.61	35.045
						1478*	4.47	35.048	1478*	4.47	35.048
						1775	3.95	35.037	1775	3.95	35.037
						2072*	3.42	34.998	2083*	3.46	35.007
						2369	3.08	34.970	2481	3.07	34.969
						2658*	2.90	34.951	2779	2.88	34.934
						2968	2.73	34.936	3279	2.58	34.919
						3368*	2.49	34.913	3678*	2.27	34.913
						3768	2.31	34.897	4078	2.24	34.890
						4168*	2.21	34.884	4478*	2.12	34.876
						4568	2.15	34.874	4878	2.05	34.860
						4968*	2.13	34.866	5278*	2.05	34.856
3611	18 X 57	24° 28'N	53° 35'W	5368	0533	1	26.80	36.244	1	27.59	36.917
						49	24.34	36.897	50	27.60	36.880
						100	22.94	37.042	100	23.14	36.903
						199*	18.27	36.526	199*	19.15	36.627
						299	17.43	36.414	299	17.83	36.470
						398*	16.31	36.221	398*	17.07	36.344
						494	14.57	35.951	498	15.43	36.081
						592*	12.72	35.697	597*	13.36	35.767
						691	10.87	35.470	697	11.17	35.484
						797*	8.98	35.222	796*	8.84	35.171
						888	7.33	35.094	896	7.35	35.027
						987*	6.32	35.041	996*	6.39	34.986
						1184	5.23	35.043	1194	5.39	35.044
						1394*	4.61	35.045	1393*	4.75	35.056
						1487*	4.63	35.077	1597*	4.22	35.052
						1775	3.95	35.037	1897	3.57	35.044
						2072*	3.42	34.998	2395*	3.16	34.978
						2369	3.08	34.970	2794	2.89	34.947
						2658*	2.90	34.951	3194*	2.67	34.936
						2968	2.73	34.936	3593	2.48	34.916
						3368*	2.49	34.913	3993*	2.36	34.907
						3768	2.31	34.897	4391	2.29	34.898
						4168*	2.21	34.884	4802*	2.13	34.873
						4568	2.15	34.874	5291	2.02	34.850
						4968*	2.13	34.866	5790*	2.08	34.850
3612	18 X 57	24° 31'N	55° 41'W	5772	2200	1	27.59	36.917	1	27.82	36.696
						50	26.00	36.796	50	27.73	36.835
						100	22.15	36.902	100	23.03	36.835
						199*	18.84	36.597	199*	19.72	36.697
						299	17.66	36.452	299	17.82	36.470
						398*	16.64	36.276	407*	17.07	36.344
						498	14.93	35.999	498	15.67	36.106
						597*	13.05	35.737	598*	13.65	35.805
						697	11.00	35.471	697	11.90	35.584
						796*	9.34	35.294	797*	9.78	35.327
						886	7.88	35.154	896	7.67	35.068
						986*	6.35	35.014	996*	6.56	35.015
						1195	5.29	35.050	1186	5.41	35.068
						1394*	4.69	35.066	1384*	4.64	35.052
						1541*	4.41	35.058	1600*	4.21	35.037
						1838	3.67	35.013	1987	3.57	34.995
						2336*	3.17	34.978	2393*	3.16	34.973
						2734	2.88	34.951	2790	2.85	34.947
						3131*	2.68	34.934	3189*	2.65	34.930
						3529	2.49	34.919	3593	2.46	34.915
						3926*	2.27	34.909	3993*	2.36	34.907
						4324	2.27	34.895	4391	2.29	34.898
						4722*	2.12	34.879	4802*	2.18	34.878
						5219	2.03	34.853	5291	2.02	34.850
						5716*	2.08	34.851	5790*	2.08	34.850
3613	19 X 57	24° 32'N	57° 30'W	5796	1134	1	27.59	36.590	1	28.31	36.502
						50	27.60	36.880	49	28.24	36.499
						100	23.14	36.903	99	23.10	36.774
						199*	19.15	36.627	198*	19.57	36.688
						299	17.83	36.470	297	17.89	36.476
						398*	17.07	36.344	405*	17.12	36.351
						498	15.43	36.081	494	15.65	36.101
						597*	13.36	35.767	593*	13.61	35.794
						697	11.17	35.484	692	11.66	35.535
						796*	9.34	35.294	797*	9.18	35.227
						896	7.88	35.154	899	7.77	35.024
						996*	6.35	35.014	996*	6.54	35.023
						1195	5.29	35.050	1186	5.41	35.068
						1394*	4.69	35.066	1384*	4.64	35.052
						1597*	4.22	35.052	1600*	4.20	34.042
						1896	3.57	34.995	1987	3.56	35.008
						2395*	3.16	34.978	2393*	3.12	34.971
						2794	2.89	34.947	2782	2.85	34.948
						3194*	2.67	34.936	3190	2.61	34.933
						3593	2.48	34.916	3590	2.45	34.916
						3993*	2.36	34.909	3990*	2.34	34.912
						4391	2.28	34.898	4365	2.31	34.899
						4792*	2.13	34.873	4802*	2.23	34.885
						5291	2.02	34.850	5287	2.07	34.858
						5790*	2.08	34.850	5751*	2.08	34.849
3614	20 X 57	24° 29'N	59° 18'W	5824	0048	1	27.82	36.696	1	27.95	35.871
						50	27.73	36.835	49	28.36	36.335
						100	23.03	36.835	97	23.91	36.586
						199*	19.72	36.697	194*	20.29	36.747
						299	17.82	36.470	292	18.18	36.517
						398*	17.07	36.344	398*	17.46	36.407
						498	15.67	36.106	486	15.96	36.153
						598*	13.65	35.805	583*	13.81	35.818
						697	11.90	35.584	680	11.73	35.527
						796*	9.78	35.327	777*	9.79	35.261
						896	7.88	35.154	890	7.77	35.024
						996*	6.35	35.014	972*	6.76	34.988
						1195	5.29	35.050	1164	5.36	35.034
						1394*	4.66	35.052	1361*	4.62	35.036
						1500*	4.21	35.037	1607*	3.58	35.016
						1897	3.56	34.995	2026	3.44	34.998
						2393*	3.16	34.973	2389*	3.17	34.973
						2790	2.88	34.947	2782	2.89	34.951
						3189*	2.65	34.930	3174*	2.68	34.933



LAT. 32° 14'N	LAT. 32° 13'N	LAT. 32° 10'N	LAT. 32° 14'N	LAT. 32° 15'N	LAT. 32° 14'N	LAT. 32° 13'N	LAT. 32° 10'N	LAT. 32° 14'N	LAT. 32° 15'N	LAT. 32° 14'N	LAT. 32° 14'N	LAT. 32° 14'N
LONG. 48° 42'W	LONG. 47° 05'W	LONG. 45° 18'W	LONG. 41° 42'W	LONG. 37° 56'W	LONG. 39° 50'W	LONG. 43° 37'W	LONG. 43° 37'W	LONG. 41° 42'W	LONG. 37° 56'W	LONG. 39° 50'W	LONG. 39° 50'W	LONG. 36° 02'W
DEPTH 4963 m	DEPTH 4740 m	DEPTH 4091 m	DEPTH 3200 m	DEPTH 2952 m	DEPTH 3008 m	DEPTH 3440 m	DEPTH 3440 m	DEPTH 3200 m	DEPTH 2952 m	DEPTH 3008 m	DEPTH 3008 m	DEPTH 3292 m
GMT 0013	GMT 1159	GMT 0002	GMT 2340	GMT 2324	GMT 1124	GMT 1142	GMT 1142	GMT 2340	GMT 2324	GMT 1124	GMT 1124	GMT 1111
DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m
T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C
S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo
1	0	0	0	0	0	1	1	0	0	0	0	0
22.49	22.05	21.68	21.71	21.49	21.49	22.30	22.30	21.71	21.49	21.49	21.49	21.43
36.858	36.706	36.588	36.465	36.462	36.462	36.705	36.705	36.465	36.462	36.462	36.462	36.766
50	50	50	50	50	50	45	45	50	50	50	50	50
22.52	22.16	21.67	21.56	21.45	21.45	22.34	22.34	21.56	21.45	21.45	21.45	21.48
36.913	36.732	36.589	36.486	36.486	36.486	36.699	36.699	36.486	36.486	36.486	36.486	36.758
100	100	100	100	100	100	90	90	100	100	100	100	100
19.46	19.66	19.88	17.89	17.89	17.89	18.53	18.53	17.89	17.89	17.89	17.89	18.40
36.598	36.561	36.574	36.531	36.531	36.531	36.692	36.692	36.531	36.531	36.531	36.531	36.537
200	200	195*	195*	195*	195*	185	185	195*	195*	195*	195*	200*
18.06	17.90	18.13	17.89	17.89	17.89	17.10	17.10	17.89	17.89	17.89	17.89	17.27
36.493	36.469	36.494	36.473	36.473	36.473	36.350	36.350	36.473	36.473	36.473	36.473	36.406
295	295	285	290	290	290	285	285	290	290	290	290	295
17.44	17.37	17.53	17.22	17.22	17.22	16.20	16.20	17.22	17.22	17.22	17.22	16.10
36.419	36.409	36.411	36.372	36.372	36.372	36.208	36.208	36.372	36.372	36.372	36.372	36.199
395	400*	395*	385*	385*	385*	380	380	385*	385*	385*	385*	390*
16.57	16.37	16.97	16.00	16.00	16.00	15.02	15.02	16.00	16.00	16.00	16.00	14.91
36.256	36.223	36.229	36.171	36.171	36.171	36.019	36.019	36.171	36.171	36.171	36.171	36.022
495	495	485	480	480	480	485	485	480	480	480	480	485
15.12	15.16	15.15	14.62	14.62	14.62	13.21	13.21	14.62	14.62	14.62	14.62	13.74
36.041	36.037	36.027	35.701	35.701	35.701	35.713	35.713	35.701	35.701	35.701	35.701	35.852
595*	590*	590*	585*	585*	585*	585	585	585*	585*	585*	585*	580*
33.828	33.891	33.891	33.492	33.492	33.492	33.379	33.379	33.492	33.492	33.492	33.492	33.652
35.616	35.634	35.634	35.492	35.492	35.492	35.379	35.379	35.492	35.492	35.492	35.492	35.525
790*	790*	790*	770*	770*	770*	770	770	770*	770*	770*	770*	780*
10.37	10.84	10.33	9.78	9.78	9.78	8.59	8.59	9.78	9.78	9.78	9.78	9.92
35.438	35.454	35.399	35.335	35.335	35.335	35.250	35.250	35.335	35.335	35.335	35.335	35.425
890	885	885	875	875	875	885	885	875	875	875	875	880
35.292	35.325	35.325	35.295	35.295	35.295	35.284	35.284	35.295	35.295	35.295	35.295	35.463
7.38	7.91	7.91	7.77	7.77	7.77	7.25	7.25	7.77	7.77	7.77	7.77	7.85
35.259	35.275	35.275	35.288	35.288	35.288	35.288	35.288	35.288	35.288	35.288	35.288	35.492
1190	1180	1180	1085	1085	1085	1075	1075	1085	1085	1085	1085	1075
5.96	6.45	6.45	6.34	6.34	6.34	6.51	6.51	6.34	6.34	6.34	6.34	6.85
35.187	35.233	35.233	35.265	35.265	35.265	35.265	35.265	35.265	35.265	35.265	35.265	35.454
5.24	5.50	4.99	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	6.18	7.21
35.156	35.190	35.059	35.268	35.268	35.268	35.268	35.268	35.268	35.268	35.268	35.268	35.413
1560*	1600*	1390*	1425*	1425*	1425*	1425	1425	1425*	1425*	1425*	1425*	1165*
4.76	4.68	4.31	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	7.31
35.114	35.114	35.012	35.118	35.118	35.118	35.118	35.118	35.118	35.118	35.118	35.118	35.418
1855	1855	1895	1625	1625	1625	1625	1625	1625	1625	1625	1625	1360
4.02	3.97	3.90	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	6.19
35.055	35.037	34.978	35.073	35.073	35.073	35.073	35.073	35.073	35.073	35.073	35.073	35.302
2155*	2190*	1780*	1820*	1820*	1820*	1820	1820	1820*	1820*	1820*	1820*	1555*
3.60	3.51	3.70	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	5.27
35.008	35.004	34.964	35.030	35.030	35.030	35.030	35.030	35.030	35.030	35.030	35.030	35.210
2455*	2480	1975	2020	2020	2020	2020	2020	2020*	2020*	2020*	2020*	1755
3.34	3.28	3.56	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	4.52
34.995	34.991	34.966	35.014	35.014	35.014	35.014	35.014	35.014	35.014	35.014	35.014	35.108
3.12	3.04	3.54	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.81
34.966	34.956	34.992	34.986	34.986	34.986	34.986	34.986	34.986	34.986	34.986	34.986	35.033
3055	3080	2575	2215	2215	2215	2215	2215	2215*	2215*	2215*	2215*	2065*
2.91	2.87	3.25	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.30
34.953	34.945	34.975	34.956	34.956	34.956	34.956	34.956	34.956	34.956	34.956	34.956	34.982
3355*	3390*	2875*	2815*	2815*	2815*	2815	2815	2815*	2815*	2815*	2815*	2650*
2.69	2.67	3.01	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.05
34.932	34.930	34.954	34.949	34.949	34.949	34.949	34.949	34.949	34.949	34.949	34.949	34.958
3755	3690	3175	3110	3110	3110	3110	3110	3110	3110	3110	3110	2950
2.43	2.48	2.76	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.89
34.914	34.912	34.938	34.930	34.930	34.930	34.930	34.930	34.930	34.930	34.930	34.930	34.945
4155*	3985*	3475*	3410*	3410*	3410*	3410	3410	3410*	3410*	3410*	3410*	3255*
2.30	2.32	2.57	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.81
34.901	34.888	34.920	34.920	34.920	34.920	34.920	34.920	34.920	34.920	34.920	34.920	34.938
4550	4285	3775	3150*	3150*	3150*	3150	3150	3150*	3150*	3150*	3150*	2950
2.21	2.26	2.37	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
34.880	34.883	34.905	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.938
2.25	2.25	2.32	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.81
34.881	34.882	34.897	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.942	34.938

STATION # 3634	STATION # 3635	STATION # 3636	STATION # 3637	STATION # 3638	STATION # 3639	STATION # 3640	STATION # 3641
DATE 28 XI 57	DATE 29 XI 57	DATE 29 XI 57	DATE 30 XI 57	DATE 30 XI 57	DATE 1 XII 57	DATE 1 XII 57	DATE 2 XII 57
LAT. 32° 16'N	LAT. 32° 16'N	LAT. 32° 12'N	LAT. 32° 15'N	LAT. 32° 15'N	LAT. 32° 13'N	LAT. 32° 13'N	LAT. 32° 19'N
LONG. 34° 13'W	LONG. 32° 32'W	LONG. 30° 47'W	LONG. 29° 08'W	LONG. 27° 14'W	LONG. 25° 21'W	LONG. 23° 32'W	LONG. 21° 57'W
DEPTH 2908 m	DEPTH 4153 m	DEPTH 3767 m	DEPTH 3756 m	DEPTH 2955 m	DEPTH 5218 m	DEPTH 5435 m	DEPTH 5143 m
GMT 2306	GMT 1054	GMT 2254	GMT 1037	GMT 2241	GMT 1025	GMT 2227	GMT 1020
DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m	DEPTH m
T °C	T °C	T °C	T °C	T °C	T °C	T °C	T °C
S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo	S o/oo
0	0	0	0	0	0	0	0
21.10	21.29	21.03	21.16	20.85	20.37	21.05	20.00
36.627	36.736	36.643	36.630	36.633	36.467	36.872	36.656
50	45	50	50	50	45	50	50
21.15	21.34	21.07	21.18	20.8			



STATION # 3642				STATION # 3643				STATION # 3644				STATION # 3645				STATION # 3646				STATION # 3647				STATION # 3648				STATION # 3649											
DATE 2 XII 57				DATE 3 XII 57				DATE 4 XII 57				DATE 5 XII 57				DATE 5 XII 57				DATE 6 XII 57				DATE 6 XII 57				DATE 6 XII 57											
L.A.T. 32° 16'N				L.A.T. 32° 15'N				L.A.T. 32° 15'N				L.A.T. 32° 16'N				L.A.T. 32° 16'N				L.A.T. 32° 16'N				L.A.T. 32° 17'N				L.A.T. 32° 15'N											
LONG. 20° 12'W				LONG. 18° 30'W				LONG. 16° 09'W				LONG. 14° 46'W				LONG. 13° 24'W				LONG. 11° 52'W				LONG. 10° 26'W				LONG. 9° 59'W											
DEPTH 4607 m				DEPTH 4502 m				DEPTH 4338 m				DEPTH 4388 m				DEPTH 4128 m				DEPTH 3292 m				DEPTH 2857 m				DEPTH 1410 m											
GMT 2210				GMT 0954				GMT 2141				GMT 0941				GMT 2136				GMT 0921				GMT 1921				GMT 2338											
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S					
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo	
0	20.50	36.859		0	20.01	36.751		0	19.59	36.731		0	19.63	36.689		0	19.42	36.646		0	18.78	36.553		0	19.18	36.618													
50	20.54	36.866		50	20.03	36.746		50	19.61	36.723		50	19.67	36.678		50	19.42	36.644		50	18.69	36.537		45	19.11	36.603													
95	17.32	36.434		95	17.78	36.389		95	17.10	36.413		95	17.10	36.355		100	16.35	36.311		100	17.17	36.365		95	17.84	36.418													
190*	16.22	36.301		195*	15.64	36.180		195*	15.51	36.208		190*	15.44	36.153		200	14.77	36.084		200	15.32	36.170		190*	15.16	36.136													
290	14.47	35.980		295	14.08	35.932		295	14.27	35.996		290	14.27	35.973		295	13.35	35.853		295	14.06	35.957		290	13.96	35.930													
390*	13.08	35.774		395*	12.95	35.763		395*	13.04	35.796		390*	13.04	35.807		395*	12.39	35.716		395*	12.79	35.758		390*	12.96	35.783													
490	12.02	35.639		495	11.91	35.630		495	11.94	35.653		490	11.94	35.667		490	11.49	35.603		490	11.83	35.629		490	11.97	35.652													
590*	11.18	35.559		590*	11.06	35.558		595*	11.23	35.567		590*	11.16	35.531		590*	10.63	35.512		590*	11.09	35.543		590*	11.02	35.543													
690	10.46	35.333		690	10.38	35.509		695	10.49	35.510		695	10.38	35.477		690	9.96	35.500		690	10.22	35.469		690	10.21	35.480													
785*	9.82	35.548		790*	9.71	35.544		795*	9.99	35.566		785*	9.95	35.559		785*	9.11	35.422		785*	10.09	35.578		790*	9.38	35.420													
885	9.41	35.600		890	9.25	35.574		895	9.66	35.617		885	9.42	35.561		885	8.66	35.472		885	9.74	35.618		885	9.05	35.454													
985*	9.00	35.639		990*	8.69	35.562		990*	9.09	35.614		985*	9.35	35.647		985*	8.20	35.429		985*	9.39	35.667		985*	8.98	35.548													
1180	7.93	35.577		1090	8.60	35.650		1090	8.39	35.662		1085	8.96	35.662		1085	8.18	35.504		1075	9.25	36.741		1185	8.67	35.566													
1380*	6.32	35.357		1190*	8.01	35.598		1185*	8.20	35.615		1180*	8.77	35.694		3480*	2.55	34.916		2960	2.83	34.948		1170*	9.17	35.812													
1585*	5.08	35.182		1280*	7.17	35.486		1315*	7.86	35.611		3780	2.45	34.906		1180*	9.03	35.768		3255*	2.56	34.916		1270*	8.39	35.716													
1885	4.19	35.328		1580	5.71	35.328		1610	6.21	35.401		4080*	2.42	34.893		1380	7.76	35.627		1460	7.10	35.549		1460	7.10	35.549													
2185*	3.62	35.008		1875*	4.53	35.167		1900*	4.85	35.211		295	13.71	35.883		1575*	6.66	35.479		1640*	6.00	35.374		1640*	6.00	35.374													
2475	3.24	34.986		2170	3.70	35.059		2195	3.97	35.083		2220	12.98	35.794		1770	5.40	35.289		2060*	4.31	35.139		1825	5.14	35.242													
2770*	2.95	34.952		2465*	3.26	35.000		2490*	3.45	35.018		495	11.78	35.628		2360	3.55	35.029		2360	4.17	35.112		2110*	4.17	35.112													
3070	2.75	34.939		2765	2.96	35.061		2775	3.10	34.978		595*	10.93	35.542		2660*	3.08	34.975		2405	3.45	35.015		2405	3.45	35.015													
3370*	2.61	34.926		3065*	2.71	34.941		3125*	2.78	34.942		695	10.32	35.532		2960	2.83	34.948		2705*	3.03	34.964		2705*	3.03	34.964													
3665	2.51	34.906		3370	2.56	34.922		3285	2.68	34.932		790	10.02	35.633		3255*	2.56	34.916																					
3965*	2.47	34.896		3670*	2.47	34.908		3510*	2.60	34.922		890	9.48	35.648																									
4260	2.42	34.889		4065	2.42	34.897		3730	2.53	34.910		990*	9.33	35.713																									
4560*	2.44	34.884		4450*	2.42	34.892		3945*	2.49	34.909		1090	9.22	35.775																									

STATION # 3650				STATION # 3651				STATION # 3823				STATION # 3824				STATION # 3825				STATION # 3826															
DATE 7 XII 57				DATE 7 XII 57				DATE 18 VIII 58				DATE 18 VIII 58				DATE 18 VIII 58				DATE 18 VIII 58															
L.A.T. 32° 16'N				L.A.T. 34° 33'N				L.A.T. 56° 00'N				L.A.T. 56° 04'N				L.A.T. 56° 07'N				L.A.T. 56° 14'N															
LONG. 9° 44'W				LONG. 7° 35'W				LONG. 8° 40'W				LONG. 8° 57'W				LONG. 9° 13'W				LONG. 9° 47'W															
DEPTH 130m				DEPTH 2046m				DEPTH 143m				DEPTH 146m				DEPTH 452m				DEPTH 1743m															
GMT 0122				GMT 2228				GMT 0524				GMT 0706				GMT 0849				GMT 1148															
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S	
m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo		m	oC	o/oo	
0	19.01	36.503		0	18.52	36.582		1	14.82	35.279		1	15.42	35.428		1	15.14	35.343		1	14.94	35.276		1	14.94	35.276									
30	18.29	36.525		100	16.68	36.335		25	13.66	35.343		25	13.52	35.471		23	12.99	35.412		23	11.42	35.447		50	11.42	35.447									
60	17.01	36.327		195	14.73	36.067		50	11.01	35.388		50	11.45	35.417		46	11.37	35.448		46	10.40	35.444		100	10.40	35.444									
90	15.89	36.210		390*	12.55	35.734		74*	10.18	35.443		74*	10.64	35.357		69*	10.77	35.456		69*	10.77	35.456		150*	10.10	35.474									
115*	15.86	36.210		590	10.98	35.560		100	10.11	35.432		99	10.23	35.448		92	10.49	35.467		92	10.49	35.467													
				785*	10.47	35.705		134*	9.84	35.337		139*	10.17	35.479		139*	10.30	35.459		139*	10.30	35.459		228*	9.79	35.436									
				980	9.71	35.770										187	10.12	35.441		187	10.12	35.441		326	9.61	35.424									
				1080*	9.71	35.854										235*	9.94	35.444		235*	9.94	35.444		423*	9.41	35.410									
				1175	9.79	35.958										333	9.80	35.443		333	9.80	35.443		519	9.12	35.381									
				1275*	9.35	35.930										434*	9.68	35.423		434*	9.68	35.423		614*	8.92	35.362									
				1370	8.45	35.785																		711	8.62	35.346									
				1570*	6.88	35.531																	907*	6.86	35.236										
				1765	5.56	35.317																	1105	5.62	35.119										
				1960*	4.47	35.150																	1303*	4.73	35.047										
																							1501	4.04	34.991										
																							1699*	3.76	34.987										







STATION #	DATE	LAT.	LONG.	DEPTH	GMT	DEPTH	T	S
				m		m	oC	o/oo
STATION # 3843	DATE 22 VIII 58	LAT. 59° 30'N	LONG. 27° 06'W	DEPTH 1938 m	GMT 0534	DEPTH	T	S
				m		m	oC	o/oo
1	12.84	35.236	12.44	1	12.44	35.282	12.44	35.282
49	9.65	35.193	9.38	50	9.38	35.291	9.38	35.291
99	8.46	35.218	8.23	100	8.23	35.285	8.23	35.285
199*	7.89	35.195	7.85	199*	7.85	35.232	7.85	35.232
297	7.55	35.176	7.52	299	7.52	35.212	7.52	35.212
396	7.31	35.186	7.23	399*	7.23	35.186	7.23	35.186
496	7.19	35.184	7.01	499	7.01	35.176	7.01	35.176
595*	6.85	35.165	6.63	598*	6.63	35.130	6.63	35.130
694	6.44	35.176	6.23	698	6.23	35.130	6.23	35.130
793*	6.05	35.111	5.82	797*	5.82	35.078	5.82	35.078
892	5.33	35.068	4.91	897	4.91	35.040	4.91	35.040
991*	4.59	35.012	4.31	997*	4.31	35.040	4.31	35.040
1090	4.43	35.016	4.02	1098	4.02	35.006	4.02	35.006
1189*	4.15	35.010	3.96	1196*	3.96	34.993	3.96	34.993
1410*	3.65	34.989	3.65	1316*	3.65	35.004	3.65	35.004
1611	3.40	35.008	3.50	1618	3.50	35.014	3.50	35.014
1712*	3.16	35.000	3.47	1722	3.47	35.029	3.47	35.029
1813	2.84	35.004	3.41	1822	3.41	35.008	3.41	35.008
1915*	2.71	35.031	3.41	1923*	3.41	35.008	3.41	35.008
STATION # 3844	DATE 22 VIII 58	LAT. 59° 42'N	LONG. 28° 19'W	DEPTH 1743 m	GMT 1136	DEPTH	T	S
				m		m	oC	o/oo
1	12.44	35.282	12.44	1	12.44	35.176	12.45	35.176
50	9.77	35.218	9.77	50	9.77	35.218	9.77	35.218
99	8.83	35.285	8.23	99	8.23	35.242	8.23	35.242
199*	7.89	35.195	7.85	199*	7.85	35.187	7.85	35.187
297	7.55	35.176	7.52	299	7.52	35.176	7.52	35.176
396	7.31	35.186	7.23	399*	7.23	35.186	7.23	35.186
496	7.19	35.184	7.01	499	7.01	35.176	7.01	35.176
595*	6.85	35.165	6.63	598*	6.63	35.130	6.63	35.130
694	6.44	35.176	6.23	698	6.23	35.130	6.23	35.130
793*	6.05	35.111	5.82	797*	5.82	35.078	5.82	35.078
892	5.33	35.068	4.91	897	4.91	35.040	4.91	35.040
991*	4.59	35.012	4.31	997*	4.31	35.040	4.31	35.040
1090	4.43	35.016	4.02	1098	4.02	35.006	4.02	35.006
1189*	4.15	35.010	3.96	1196*	3.96	34.993	3.96	34.993
1410*	3.65	34.989	3.65	1316*	3.65	35.004	3.65	35.004
1611	3.40	35.008	3.50	1618	3.50	35.014	3.50	35.014
1712*	3.16	35.000	3.47	1722	3.47	35.029	3.47	35.029
1813	2.84	35.004	3.41	1822	3.41	35.008	3.41	35.008
1915*	2.71	35.031	3.41	1923*	3.41	35.008	3.41	35.008
STATION # 3845	DATE 22 VIII 58	LAT. 59° 53'N	LONG. 29° 18'W	DEPTH 1293 m	GMT 1635	DEPTH	T	S
				m		m	oC	o/oo
1	12.45	35.176	12.45	1	12.45	35.230	12.45	35.230
50	9.77	35.218	9.77	50	9.77	35.218	9.77	35.218
99	8.83	35.285	8.23	99	8.23	35.242	8.23	35.242
199*	7.89	35.195	7.85	199*	7.85	35.187	7.85	35.187
297	7.55	35.176	7.52	299	7.55	35.176	7.52	35.176
396	7.31	35.186	7.23	399*	7.23	35.186	7.23	35.186
496	7.19	35.184	7.01	499	7.19	35.176	7.01	35.176
595*	6.85	35.165	6.63	598*	6.63	35.130	6.63	35.130
694	6.44	35.176	6.23	698	6.44	35.176	6.23	35.176
793*	6.05	35.111	5.82	797*	5.82	35.078	5.82	35.078
892	5.33	35.068	4.91	897	4.91	35.040	4.91	35.040
991*	4.59	35.012	4.31	997*	4.31	35.040	4.31	35.040
1090	4.43	35.016	4.02	1098	4.43	35.016	4.02	35.016
1189*	4.15	35.010	3.96	1196*	3.96	34.993	3.96	34.993
1410*	3.65	34.989	3.65	1316*	3.65	35.004	3.65	35.004
1611	3.40	35.008	3.50	1618	3.50	35.014	3.50	35.014
1712*	3.16	35.000	3.47	1722	3.47	35.029	3.47	35.029
1813	2.84	35.004	3.41	1822	3.41	35.008	3.41	35.008
1915*	2.71	35.031	3.41	1923*	3.41	35.008	3.41	35.008
STATION # 3846	DATE 22 VIII 58	LAT. 60° 01'N	LONG. 30° 05'W	DEPTH 1373 m	GMT 2011	DEPTH	T	S
				m		m	oC	o/oo
1	12.35	35.230	12.35	1	12.35	35.230	12.35	35.230
50	9.05	35.094	9.05	50	9.05	35.094	9.05	35.094
92	7.87	35.142	7.36	92	7.87	35.142	7.36	35.142
139*	7.33	35.154	7.08	139*	7.33	35.154	7.08	35.154
185	7.08	35.071	6.83	185	7.08	35.071	6.83	35.071
278*	6.83	35.124	6.83	278*	6.83	35.124	6.83	35.124
399*	7.02	35.162	6.44	399*	7.02	35.162	6.44	35.162
499	6.93	35.158	6.44	499	6.93	35.158	6.44	35.158
598*	6.25	35.107	6.25	598*	6.25	35.107	6.25	35.107
698	5.62	35.060	5.62	698	5.62	35.060	5.62	35.060
797*	5.01	35.028	4.84	797*	5.01	35.028	4.84	35.028
894	4.58	35.011	4.58	894	4.58	35.011	4.58	35.011
997*	4.25	35.009	4.25	997*	4.25	35.009	4.25	35.009
1098	4.02	35.006	3.92	1098	4.02	35.006	3.92	35.006
1299*	3.95	35.004	3.75	1299*	3.95	35.004	3.75	35.004
1077*	3.74	34.951	3.74	1077*	3.74	34.951	3.74	34.951
1273	3.60	34.941	3.60	1273	3.60	34.941	3.60	34.941
1469*	3.51	34.961	3.51	1469*	3.51	34.961	3.51	34.961
1667	3.46	34.976	3.46	1667	3.46	34.976	3.46	34.976
1866*	3.41	34.980	3.41	1866*	3.41	34.980	3.41	34.980
2066	3.41	34.990	3.41	2066	3.41	34.990	3.41	34.990
2266*	3.42	34.986	3.42	2266*	3.42	34.986	3.42	34.986
STATION # 3847	DATE 24 VIII 58	LAT. 55° 57'N	LONG. 34° 59'W	DEPTH 2290 m	GMT 0230	DEPTH	T	S
				m		m	oC	o/oo
1	12.64	34.951	12.64	1	12.64	34.951	12.64	34.951
46	9.36	35.063	9.36	46	9.36	35.063	9.36	35.063
92	7.95	35.108	7.95	92	7.95	35.108	7.95	35.108
139*	7.36	35.043	7.36	139*	7.36	35.043	7.36	35.043
185	7.08	35.071	6.83	185	7.08	35.071	6.83	35.071
278*	6.83	35.124	6.83	278*	6.83	35.124	6.83	35.124
399*	7.02	35.162	6.44	399*	7.02	35.162	6.44	35.162
499	6.93	35.158	6.44	499	6.93	35.158	6.44	35.158
598*	6.25	35.107	6.25	598*	6.25	35.107	6.25	35.107
698	5.62	35.060	5.62	698	5.62	35.060	5.62	35.060
797*	5.01	35.028	4.84	797*	5.01	35.028	4.84	35.028
894	4.58	35.011	4.58	894	4.58	35.011	4.58	35.011
997*	4.25	35.009	4.25	997*	4.25	35.009	4.25	35.009
1098	4.02	35.006	3.92	1098	4.02	35.006	3.92	35.006
1299*	3.95	35.004	3.75	1299*	3.95	35.004	3.75	35.004
1077*	3.74	34.951	3.74	1077*	3.74	34.951	3.74	34.951
1273	3.60	34.941	3.60	1273	3.60	34.941	3.60	34.941
1469*	3.51	34.961	3.51	1469*	3.51	34.961	3.51	34.961
1667	3.46	34.976	3.46	1667	3.46	34.976	3.46	34.976
1866*	3.41	34.980	3.41	1866*	3.41	34.980	3.41	34.980
2066	3.41	34.990	3.41	2066	3.41	34.990	3.41	34.990
2266*	3.42	34.986	3.42	2266*	3.42	34.986	3.42	34.986
STATION # 3848	DATE 24 VIII 58	LAT. 55° 42'N	LONG. 34° 16'W	DEPTH 1973 m	GMT 0731	DEPTH	T	S
				m		m	oC	o/oo
1	12.81	34.924	12.81	1	12.81	34.924	12.81	34.924
50	9.27	35.012	9.27	50	9.27	35.012	9.27	35.012
92	8.07	35.026	8.07	92	8.07	35.026	8.07	35.026
139*	7.46	35.045	7.46	139*	7.46	35.045	7.46	35.045
185	7.08	35.071	6.83	185	7.08	35.071	6.83	35.071
278*	6.83	35.124	6.83	278*	6.83	35.124	6.83	35.124
399*	7.02	35.162	6.44	399*	7.02	35.162	6.44	35.162
499	6.93	35.158	6.44	499	6.93	35.158	6.44	35.158
598*	6.25	35.107	6.25	598*	6.25	35.107	6.25	35.107



DEPTH m	T °C	S ‰
1	15.89	35.479
50	12.98	35.584
100	11.78	35.570
199*	11.10	35.539
299	10.92	35.541
398*	10.57	35.479
498	10.13	35.448
598*	9.78	35.447
697	9.29	35.451
797*	8.79	35.484
896	8.45	35.511
996*	7.94	35.303
1095	7.00	35.210
1394*	4.57	35.043

DEPTH m	T °C	S ‰
1	16.27	35.495
50	13.23	35.582
100	11.83	35.582
200*	11.34	35.559
299	10.96	35.523
398*	10.82	35.512
498	10.42	35.470
598*	9.88	35.428
698	9.19	35.390
797*	8.27	35.312
896	7.77	35.340
994*	7.53	35.374
1092	6.92	35.334
1394*	6.16	35.229

DEPTH m	T °C	S ‰
1	15.75	35.348
50	12.17	35.586
100	11.66	35.590
200*	11.34	35.582
300	11.09	35.552
400*	11.00	35.555
500	10.66	35.526
599*	10.30	35.496
699	9.88	35.502
799*	9.55	35.543
899	9.13	35.562
999	8.60	35.549
1099	7.91	35.481
1299*	6.51	35.324

DEPTH m	T °C	S ‰
1	16.01	35.447
50	12.88	35.611
99	11.92	35.648
199*	11.52	35.604
298	11.30	35.586
397*	11.10	35.560
497	10.90	35.532
596*	10.64	35.518
695	10.25	35.508
794*	9.84	35.522
894	9.47	35.540
993	8.84	35.536
1192	7.58	35.438
1390*	5.65	35.190

DEPTH m	T °C	S ‰
1	15.76	35.412
45	13.01	35.530
90	11.66	35.585
181*	11.29	35.582
272	11.02	35.570
364*	10.91	35.539
456	10.70	35.520
548*	10.30	35.480
643	10.00	35.501
737*	9.30	35.467
833	9.41	35.606
929*	8.92	35.586

DEPTH m	T °C	S ‰
1	15.95	35.438
15	15.92	35.438
40	14.48	35.509
89*	12.04	35.606
139	11.62	35.591
189*	11.40	35.578
288	11.04	35.550
427*	10.85	35.539

DEPTH m	T °C	S ‰
1	17.97	35.493
25	17.16	35.476
49	14.74	35.528
99*	11.91	35.626
148	11.64	35.615
198*	11.50	35.618
297	11.41	35.618
346*	11.38	35.616

DEPTH m	T °C	S ‰
1	18.18	35.467
50	14.09	35.511
100	11.69	35.634
200*	11.47	35.626
300	11.32	35.614
400*	11.20	35.603
500	10.97	35.598
599*	10.64	35.606
699	10.36	35.637
799*	10.16	35.712
899	9.97	35.763
999*	9.74	35.782
1099	9.30	35.764
1199*	8.82	35.711

DEPTH m	T °C	S ‰
1	17.46	35.570
48	13.43	35.647
96	11.86	35.652
193*	11.55	35.623
290	11.32	35.599
387*	11.12	35.573
485	10.76	35.533
583*	10.44	35.554
681	10.28	35.601
779*	10.16	35.667
878	9.93	35.701
976*	9.65	35.748
1075	9.19	35.717
1174*	8.65	35.659

DEPTH m	T °C	S ‰
1	17.79	35.562
49	15.82	35.585
98	11.77	35.634
197*	11.44	35.620
295	11.25	35.601
393*	11.07	35.582
492	10.86	35.580
590*	10.52	35.583
688	10.30	35.639
786*	10.09	35.689
885	9.88	35.744
983	9.69	35.788
1080	8.80	35.717
1376*	7.14	35.466

DEPTH m	T °C	S ‰
1	17.45	35.570
48	13.43	35.647
96	11.86	35.652
193*	11.55	35.623
290	11.32	35.599
387*	11.12	35.573
485	10.76	35.533
583*	10.44	35.554
681	10.28	35.601
779*	10.16	35.667
878	9.93	35.701
976*	9.65	35.748
1075	9.19	35.717
1174*	8.65	35.659

DEPTH m	T °C	S ‰
1	17.55	35.529
50	13.39	35.629
99	11.90	35.658
149*	11.67	35.645
198	11.63	35.649
296*	11.41	35.620
394	11.22	35.597
493	10.93	35.584
592*	10.73	35.601
697	10.32	35.624
796*	10.16	35.678
896	9.99	35.644
995*	9.63	35.784
1095	9.20	35.749
1194*	8.66	35.696

DEPTH m	T °C	S ‰
1	17.04	35.551
49	13.30	35.692
99	12.36	35.687
197*	11.94	35.648
296	11.50	35.599
394	11.11	35.551
493	10.83	35.519
592*	10.34	35.478
690	9.98	35.520
789*	9.55	35.585
887	9.44	35.628
986*	8.40	35.527
1085	7.38	35.388
1183	6.36	35.254

DEPTH m	T °C	S ‰
1	15.87	35.436
25	15.86	35.450
50	12.42	35.576
75*	11.98	35.597
124	11.41	35.584
174*	11.12	35.555

DEPTH m	T °C	S ‰
1	15.95	35.438
15	15.92	35.438
40	14.48	35.509
89*	12.04	35.606
139	11.62	35.591
189*	11.40	35.578
288	11.04	35.550
427*	10.85	35.539

DEPTH m	T °C	S ‰
1	15.87	35.436
25	15.86	35.450
50	12.42	35.576
75*	11.98	35.597
124	11.41	35.584
174*	11.12	35.555

DEPTH m	T °C	S ‰
1	15.95	35.438
15	15.92	35.438
40	14.48	35.509
89*	12.04	35.606
139	11.62	35.591
189*	11.40	35.578
288	11.04	35.550
427*	10.85	35.539

DEPTH m	T °C	S ‰
1	15.76	35.412
45	13.01	35.530
90	11.66	35.585
181*	11.29	35.582
272	11.02	35.570
364*	10.91	35.539
456	10.70	35.520
548*	10.30	35.480
643	10.00	35.501
737*	9.30	35.467
833	9.41	35.606
929*	8.92	35.586

DEPTH m	T °C	S ‰
1	15.76	35.412
45	13.01	35.530
90	11.66	35.585
181*	11.29	35.582
272	11.02	35.570
364*	10.91	35.539
456	10.70	35.520
548*	10.30	35.480
643	10.00	35.501
737*	9.30	35.467
833	9.41	35.606
929*	8.92	35.586

DEPTH m	T °C	S ‰
1	15.76	35.412
45	13.01	35.530
90	11.66	35.585
181*	11.29	35.582
272	11.02	35.570
364*	10.91	35.539
456	10.70	35.520
548*	10.30	35.480
643	10.00	35.501
737*	9.30	35.467
833	9.41	35.606
929*	8.92	35.586

DEPTH m	T °C	S ‰
1	17.55	35.529
50	13.39	35.629
99	11.90	35.658
149*	11.67	35.645
198	11.63	35.649
296*	11.41	35.620
394	11.22	35.597
493	10.93	35.584
592*	10.73	35.601
697	10.32	35.624
796*	10.16	35.678
896	9.99	35.644
995*	9.63	35.784
1095	9.20	35.749
1194*	8.66	35.696

DEPTH m	T °C	S ‰
1	17.04	35.551
49	13.30	35.692
99	12.36	35.687
197*	11.94	35.648
296	11.50	35.599
394	11.11	35.551
493	10.83	35.519
592*	10.34	35.478
690	9.98	35.520
789*	9.55	35.585
887	9.44	35.628
986*	8.40	35.527
1085	7.38	35.388
1183	6.36	35.254

DEPTH m	T °C	S ‰
1	17.04	35.551
49	13.30	35.692
99	12.36	35.687
197*	11.94	35.648
296	11.50	35.599
394	11.11	35.551
493	10.83	35.519
592*	10.34	35.478
690	9.98	35.520
789*	9.55	35.585
887	9.44	35.628
986*	8.40	35.527
1085	7.38	35.388
1183	6.36	35.254

DEPTH m	T °C	S ‰
1	17.04	35.551
49	13.30	35.692
99	12.36	35.687
197*	11.94	35.648
296	11.50	35.599
394	11.11	35.551
493	10.83	35.519
592*	10.34	35.478
690	9.98	35.520
789*	9.55	35.585
887	9.44	35.628
986*	8.40	35.527
1085	7.38	35.388
1183	6.36	35.254

DEPTH m	T °C	S ‰
1	16.51	35.457
49	13.30	35.692
99	12.36	35.687
197*	11.94	35.648
296	11.50	35.599
394	11.11	35.551
493	10.83	35.519
592*	10.34	35.478
690	9.98	35.520
789*	9.55	35.585
887	9.44	35.628
986*	8.40	35.527
1085		







LAT. 43° 07'N  
LONG. 20° 13'W  
DEPTH 5965 m  
GMT 0410

DEPTH m	T °C	S o/oo
1	19.04	35.840
49	16.47	35.830
99	13.54	35.794
198*	12.69	35.732
296	12.11	35.658
394*	11.56	35.589
493	11.12	35.548
591*	10.65	35.508
690	10.24	35.532
788*	9.65	35.532
887	9.43	35.631
985*	8.85	35.607
1084	7.96	35.515
1182*	7.57	35.514
1257*	6.57	35.361
1355	5.77	35.241
1454*	4.96	35.117
1650	4.18	35.005
1946*	3.66	34.951
2245	3.46	34.966
2548*	3.15	34.971
2854	2.94	34.960
3260*	2.74	34.943
3541*	2.69	34.931
3938	2.62	34.931
4335*	2.65	34.927
4732	2.72	34.929
5129*	2.74	34.923
5525	2.79	34.919
5922*	2.87	34.922

STATION # 3899

DATE 16 IX 58  
LAT. 43° 05'N  
LONG. 10° 28'W  
DEPTH 3573 m  
GMT 1459

DEPTH m	T °C	S o/oo
1	19.64	35.560
49	15.99	35.641
98	12.55	35.697
196*	11.74	35.651
294	11.51	35.624
392*	11.28	35.594
490	10.97	35.581
587*	10.70	35.602
685	10.69	35.711
783*	10.66	35.827
881	10.59	35.911
979*	10.45	35.984
1077	10.32	36.028
1175*	10.00	36.032
1268*	9.08	35.848
1368	7.70	35.617
1467*	6.31	35.359
1566	5.44	35.215
1764*	4.47	35.077
2061	3.83	35.016
2359*	3.41	35.002
2657	3.04	34.973
2956*	2.80	34.946
3255	2.67	34.933
3555*	2.59	34.922

LAT. 43° 08'N  
LONG. 17° 06'W  
DEPTH 4433 m  
GMT 2201

DEPTH m	T °C	S o/oo
1	19.34	35.915
49	17.47	35.874
99	13.13	35.797
198*	12.41	35.717
297	11.78	35.630
396*	11.42	35.586
495	11.16	35.563
593*	10.71	35.550
694	10.19	35.550
793*	9.23	35.460
893	9.96	35.826
992*	9.89	35.901
1091	8.51	35.679
1190*	8.03	35.647
1321*	6.46	35.374
1421	4.97	35.500
1520*	4.45	35.042
1719	4.09	34.998
2016*	3.74	34.986
2413	3.31	34.975
2809*	2.96	34.967
3208	2.73	34.955
3607*	2.62	34.931
4007	2.57	34.927
4407*	2.55	34.910

STATION # 3901

DATE 16 IX 58  
LAT. 43° 07'N  
LONG. 9° 35'W  
DEPTH 291 m  
GMT 2213

DEPTH m	T °C	S o/oo
1	19.43	35.654
24	18.47	35.623
48	14.74	35.696
76*	13.25	35.748
172	11.72	35.657
267*	11.47	35.651
19.39	35.610	
16.43	35.617	
13.41	35.748	
12.12	35.696	
11.76	35.667	
11.43	35.638	
11.13	35.656	
11.07	35.776	
11.12	35.932	
11.11	35.998	
11.24	36.111	
11.02	36.120	
10.70	36.116	
10.59	36.128	
10.30	36.074	
9.43	35.944	
7.89	35.673	
5.90	35.288	
4.41	35.077	
4.03	35.056	
3.38	35.006	

LAT. 43° 08'N  
LONG. 13° 44'W  
DEPTH 5294 m  
GMT 1659

DEPTH m	T °C	S o/oo
1	19.06	35.752
50	16.24	35.733
99	12.93	35.760
198*	12.04	35.663
297	11.76	35.630
396*	11.44	35.607
495	11.16	35.583
594*	10.84	35.575
693	10.55	35.613
792*	10.65	35.752
891	10.87	35.916
990*	10.62	35.959
1089	10.09	35.938
1188*	9.48	35.872
1275*	8.90	35.777
1372	7.92	35.629
1567*	5.94	35.316
1858	4.34	35.063
2073*	3.67	34.997
2470	3.22	34.978
2967*	2.84	34.952
3464	2.64	34.922
3960*	2.52	34.911
4457	2.56	34.909
4955*	2.58	---

STATION # 3903

DATE 20 IX 58  
LAT. 44° 02'N  
LONG. 7° 59'W  
DEPTH 212 m  
GMT 1807

DEPTH m	T °C	S o/oo
1	18.87	35.630
24	18.50	35.658
49	15.29	35.676
97*	12.85	35.686
146	11.96	35.668
194*	11.79	35.669
18.42	35.644	
15.38	35.684	
12.08	35.686	
11.68	35.641	
11.46	35.625	
11.22	35.604	
10.89	35.597	
10.71	35.648	
10.55	35.725	
10.81	---	
10.81	35.967	
10.63	36.028	
10.20	35.992	
9.37	35.842	
8.69	35.716	
7.84	35.594	
6.87	35.436	
5.43	35.200	
4.08	35.052	
3.56	35.004	
3.03	34.965	
2.71	34.934	
2.54	34.924	
2.50	34.929	
2.55	34.901	

LAT. 43° 08'N  
LONG. 12° 46'W  
DEPTH 4963 m  
GMT 0012

DEPTH m	T °C	S o/oo
1	18.98	35.667
49	15.84	35.795
99	12.79	35.746
197*	11.94	35.672
296	11.59	35.629
394*	11.30	35.596
493	10.91	35.571
591*	10.60	35.598
690	10.76	35.789
788*	10.36	35.739
887	10.11	35.793
985*	9.77	35.863
1084	9.18	35.774
1182*	8.68	35.728
1279*	7.65	35.569
1378	6.79	35.442
1576*	5.20	35.183
1775	4.35	35.060
2073*	3.67	34.997
2470	3.22	34.978
2967*	2.84	34.952
3464	2.64	34.922
3960*	2.52	34.911
4457	2.56	34.909
4955*	2.58	---

STATION # 3904

DATE 21 IX 58  
LAT. 44° 21'N  
LONG. 8° 01'W  
DEPTH 4632 m  
GMT 0524

DEPTH m	T °C	S o/oo
1	18.42	35.644
50	15.38	35.684
99	12.08	35.686
198*	11.68	35.641
298	11.46	35.625
397*	11.22	35.604
496	10.89	35.597
595*	10.71	35.648
694	10.55	35.725
794*	10.81	---
893	10.81	35.967
992*	10.63	36.028
1091	10.20	35.992
1190*	9.37	35.842
1232*	8.69	35.716
1330	7.84	35.594
1429*	6.87	35.436
1627	5.43	35.200
1924*	4.08	35.052
2220	3.56	35.004
2616*	3.03	34.965
3112	2.71	34.934
3608*	2.54	34.924
4104	2.50	34.929
4601*	2.55	34.901

LAT. 43° 04'N  
LONG. 11° 23'W  
DEPTH 2562 m  
GMT 0933

DEPTH m	T °C	S o/oo
1	19.44	35.726
49	14.87	35.841
98	13.15	35.816
196*	12.30	35.716
294	12.83?	35.655
392*	11.50	35.637
491	11.15	35.602
589*	10.86	35.598
687	10.67	35.699
786*	10.72	35.830
886	10.28	35.844
985*	9.88	35.823
1085	9.69	35.859
1184*	9.40	35.844
1245*	8.50	35.736
1343	7.62	35.587
1442*	6.72	35.434
1540	5.73	35.284
1738*	4.52	35.102
1935	3.95	35.031
2133*	3.58	35.003
2332	3.33	34.992
2532*	3.16	34.973

STATION # 3906

DATE 22 IX 58  
LAT. 45° 25'N  
LONG. 7° 38'W  
DEPTH 4872 m  
GMT 0751

DEPTH m	T °C	S o/oo
1	18.21	35.631
49	15.50	35.631
98	11.85	35.665
197*	11.61	35.651
295	11.46	35.649
394*	11.34	35.619
492	11.20	35.607
590*	10.92	35.631
689	10.60	35.596
787*	10.38	35.835
886	10.18	35.719
984*	9.79	35.760
1082	9.59	35.824
1181*	9.22	35.807
1271*	8.51	35.689
1369	7.39	35.511
1467*	6.60	35.386
1663	5.23	35.236
1956*	4.25	35.081
2350	3.44	34.993
2842*	2.92	34.957
3335	2.68	34.922
3830*	2.55	34.921
4325	2.54	34.911
4822*	2.57	34.899



STATION # 3907				STATION # 3908				STATION # 3909				STATION # 3910				STATION # 3911			
DATE 22 IX 58				DATE 22 IX 58				DATE 23 IX 58				DATE 23 IX 58				DATE 23 IX 58			
LAT. 46° 00'N				LAT. 46° 37'N				LAT. 47° 09'N				LAT. 47° 22'N				LAT. 47° 38'N			
LONG. 7° 34'W				LONG. 7° 27'W				LONG. 7° 25'W				LONG. 7° 24'W				LONG. 7° 20'W			
DEPTH 4794m				DEPTH 4629m				DEPTH 4285m				DEPTH 3630m				DEPTH 441m			
GMT 1437				GMT 2044				GMT 0233				GMT 0615				GMT 0951			
DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S		DEPTH	T	S	
m	°C	o/oo		m	°C	o/oo		m	°C	o/oo		m	°C	o/oo		m	°C	o/oo	
1	17.51	35.537		1	17.40	35.537		1	16.89	35.571		1	16.88	35.546		1	16.16	35.546	
50	12.87	35.658		50	14.85	35.489		48	16.87	35.432		49	14.33	35.395		50	13.09	35.395	
99	11.91	35.663		100	12.02	35.217		96	12.27	35.337		96	11.99	35.309		99	12.32	35.309	
199*	11.65	35.640		199*	11.57	35.040		192*	11.70	35.122		193*	11.61	35.150		198*	11.89	35.150	
298	11.45	35.622		200	11.38	35.000		289	11.52	35.053		293	11.44	35.081		297	11.41	35.081	
397*	11.31	35.628		398*	11.15	35.007		386*	11.40	35.006		390*	11.25	35.030		396*	11.04	35.030	
497	11.03	35.599		498	10.92	34.967		484	11.00	34.970		488	11.01	34.973					
596*	10.68	35.597		597	10.63	34.922		582*	10.69	34.929		586	10.66	34.948					
695	10.44	35.533		697	10.31	34.906		680	10.32	34.917		683	10.36	34.923					
794*	10.18	35.679		797*	10.23	34.904		780*	9.98	34.903		781*	10.09	34.903					
894	10.00	35.763		896	9.85	34.936		879	9.68	34.947		878	9.78	34.948					
993*	9.73	35.812		996	9.53	34.922		979*	9.37	34.929		978*	9.36	34.923					
1092	9.18	35.759		1096	8.83	34.906		1080	8.92	34.917		1074	8.93	34.917					
1192*	8.37	35.638		1195*	8.13	34.904		1182*	7.99	34.903		1172*	8.41	34.923					
1321*	7.33	35.487		1295*	7.38	35.489		1100*	8.17	35.571		1289*	7.84	35.546					
1420	6.22	35.309		1393	6.50	35.432		1290	7.13	35.432		1388	6.83	35.395					
1519*	5.54	35.205		1491*	5.64	35.217		1389*	6.41	35.337		1487*	6.16	35.309					
1718	4.50	35.070		1689	4.37	35.040		1587	5.00	35.122		1686	5.02	35.150					
2016*	3.80	35.009		1885*	3.94	35.000		1786*	4.31	35.053		1884*	4.38	35.081					
2314	3.38	34.994		2181	3.61	35.007		2083	3.73	35.006		2181	3.78	35.030					
2810*	2.92	34.953		2575*	3.12	34.967		2480*	3.16	34.970		2578*	3.00	34.973					
3307	2.70	34.932		3070	2.77	34.936		2877	2.86	34.947		3074	2.78	34.948					
3803*	2.57	34.923		3566*	2.60	34.922		3274*	2.66	34.929		3569*	2.65	34.923					
4300	2.54	34.909		4062	2.55	34.906		3770	2.57	34.917									
4794*	2.58	34.909		4560*	2.55	34.904		4266*	2.53	34.903									







