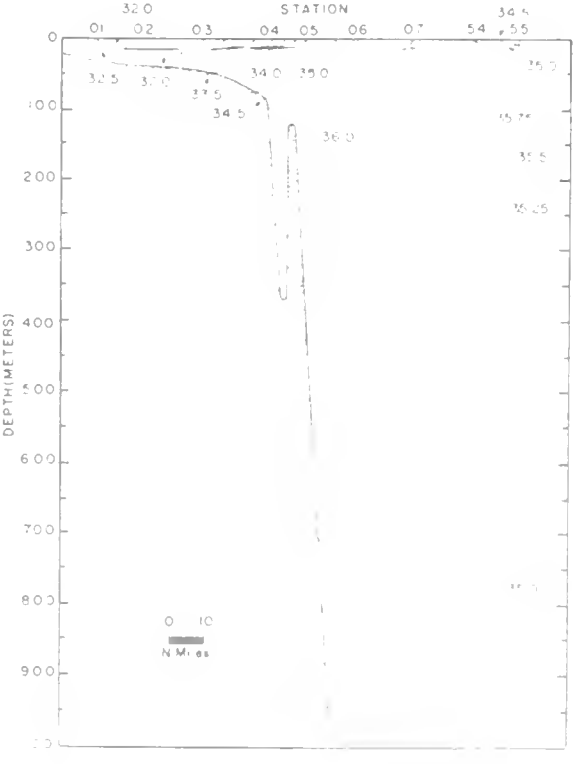
DEPARTMENT OF TRANSPORTATION

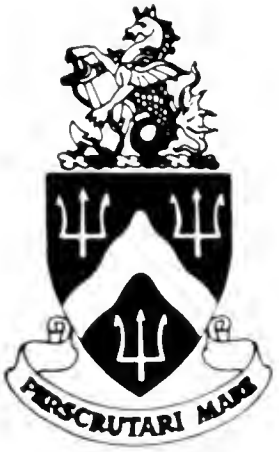
COAST GUARD

OCEANOGRAPHY of the NEW YORK BIGHT

August 1974



OCEANOGRAPHIC REPORT No. CG 373- 71



OCEANOGRAPHIC REPORT

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OCEANOGRAPHY of the NEW YORK BIGHT

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Joseph M. Bishop

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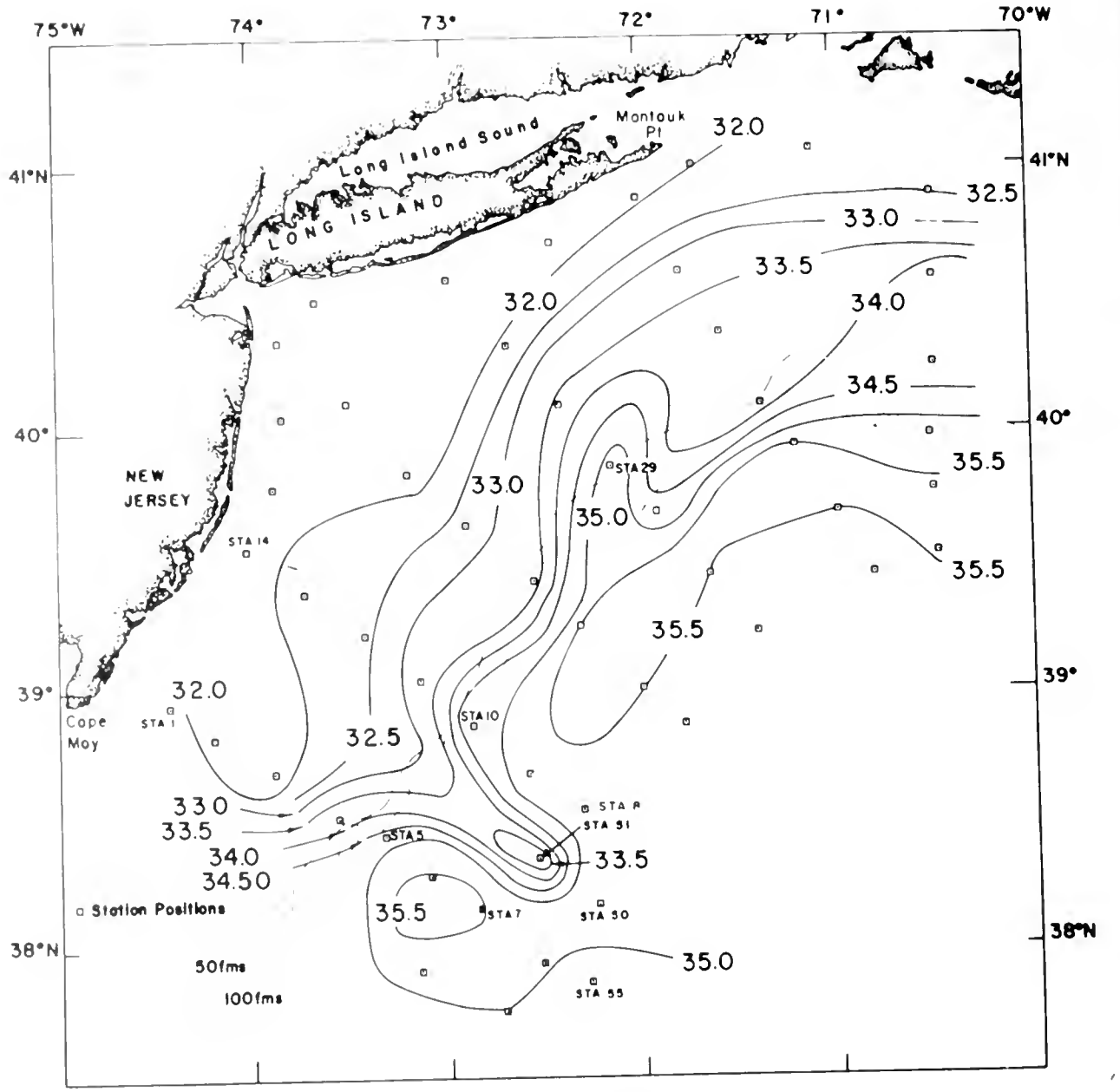
June 1976

United States Coast Guard

Oceanographic Unit

Washington, D.C.



50 meter salinity field

ABSTRACT

The physical oceanography of the shelf and slope waters of the New York Bight (Block Island to Cape May) in August of 1974 is described. Temperature, salinity, and density data, presented in surface contours and section profiles, showed the shelf/slope front, a cold core on the shelf, and a salinity core on the slope. Geostrophic currents in the slope water were inferred from the density structure, and showed two anticyclonic eddies with maximum geostrophic velocities of approximately 40 cm s^{-1}. Temperature and salinity profiles indicated shelf slope mixing related to the eddies.

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OCEANOGRAPHY OF THE NEW YORK BIGHT AUGUST 1974

by

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INTRODUCTION

An oceanographic survey of the waters of the New York Bight (Block Island to Cape May) was conducted by the USCGC EVERGREEN during August 1974. The purpose of the cruise was to continue data collection for use in a coastal surface current model to be used in Search and Rescue planning. The survey, conducted during the period 8–20 August, consisted of six sections laid perpendicular to the trend of the coast between Block Island, Rhode Island and Cape May, New Jersey (fig. 1). Each section was designed to contain two stations in the slope water beyond the continental shelf, one station on the continental slope, and four to five stations on the continental shelf, thus providing information on not only shelf processes, but also on the adjacent slope water. Station spacing was approximately 15 nautical miles, and section spacing was approximately 45 nautical miles. In addition to the oceanographic survey, three current meter arrays were deployed south of Long Island (fig. 1).

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PROCEDURES

Oceanographic Sampling

At each station an STD (Salinity-Temperature-Depth) cast was taken to near bottom or to a depth of 1100 meters. The data was collected on a Plessey Environmental Systems Model 9040 S T D Environmental Profiling System (STD) (serial number 5313). The data were recorded on an analog trace and also digitally on magnetic tape. The digital recording was made by a Sonycraft Digital Data Logger (DDL) manufactured under Coast Guard contract CG-12, 778-A. Four channels of information were sampled at rates of 0.5 or 1.0 scans per second. STD frequencies representing depth, temperature, and salinity were converted to binary coded decimal (BCD) and recorded on a 7 channel IBM compatible magnetic tape at a bit density of 200 bpi. The resolution of the DDL system is ±one hertz. One hertz corresponds to .00344 ‰, .018 C, and 1.90 meters in salinity, temperature, and depth respectively. The fourth information channel was available for recording sound velocity on the DDL, but it was not used. The tape format for each STD cast consisted of 3 sets of station data such as station number, position, date, and time followed by any number of data records, depending on the maximum depth and lowering rate of the cast. Each record consisted of the temperature and salinity information at 100 depth levels. Thus, an average one thousand meter cast was composed of about 1200 data levels recorded on approximately 12 records. Five computer programs were developed by CG OCEANOR to reduce the number of data levels to a more manageable figure of 50 to 100 data levels at standard depths and inflection points which would still accurately represent the original water column.

The computer programs were developed for a Control Data Corporation (CDC) 3300 computer. A flow diagram of the processing procedure described below is shown in figure 2. The first program, NEWDL, input the on deck depth frequency of the depth sensor, and read the records to be processed from the magnetic tape. The digitized frequencies were translated from BCD to engineering units of depth (meters to tenths), temperature (C° to hundredths), and salinity (‰ to hundredths). The values were printed out so that an initial check of the data could be made. In addition, a tape output (NEWDL tape) was written as an input to the next program. With a rapid sample rate such as 0.5 second, a specific depth level might show up several times. While these temperature and salinity values were always close, they generally did not agree exactly, probably as a result of sensor lag. The output from the first program was normally around 1200 levels of data for a 1000 meter cast.

Program AVCOR averaged data levels inputed from the NEWDL tape at the same depth level. AVCOR accepted sequential levels until a deeper level was reached; then it began the averaging for the next level. Therefore if, due to the ship rolling, the STD dips to a lower level and then returns to the original level, the data at the original level subsequent to the roll will not be included in the average. During the AVCOR processing, corrections are made to temperature and salinity as discussed in the following section. The output of AVCOR is a printout and a magnetic tape (AVCOR tape). The printout of temperature, salinity, and computed sigma-t was quality controlled by removing samples which caused averaged sigma-t values to decrease more than 0.2, 0.05, or 0.02 per averaged data level within 0-100 meters, 100-300 meters, and deeper than 300 meters respectively.

Use of these criteria occasionally permitted data to pass which indicated large instabilities in the water column, as revealed by computation of the stability or E value (Sverdrup, et al. 1942, pp. 416-418). This usually occurred only over small intervals. (Although such data might be questioned, the data has not been rejected; this will permit other investigators to draw their own conclusions as to whether or not to use the data.

All data has been used in the analysis presented in this report.)

Program FINAV, which input the AVCOR tape, reaveraged the data after data levels which failed to pass the AVCOR sigma-t test were removed. The output of FINAV is a printout and a computer card deck. The FINAV printout was quality controlled by rechecking the sigma-t values to ascertain the effect of the data level deletions on the FINAV run. For various reasons, the zero meter depth level is not recorded by the DDL. Zero level data is obtained from the STD trace or extrapolation, and entered into the computer card deck.

The fourth program, SIGPT, determined the standard and significant levels, whose temperature and salinity would accurately represent the original water column. Standard levels were taken at the depths falling closest to minimum recorded depth, 10, 20, 30, 50, 75, and 100 meters, every 25 meters to 300 meters, and then every 50 meters to 1000 meters. The first test for significant levels consisted of fitting a cubic curve through five consecutive temperature data points. If the curvature at the midpoint exceeded an absolute value of 0.005, the second, third, and fourth points were compared with the data points immediately above and below. A level was significant if it departed from a straight line between the adjacent points by more than 0.04°C for temperature (more than 0.06‰ for salinity). The second test compared the differences between the curvature of two successive midpoints. If the absolute value of the difference exceeded 0.005, the departure of the point from the adjacent points was again checked, using the same limits as in the first test to determine if the point was significant. If both of these tests were negative, the departure of levels from points immediately above and below was again checked. If the absolute departure was greater than 0.09 for both temperature and salinity, the level was significant. If the limits were not exceeded in any of the three tests, the level was not significant. After running the same checks for salinity, the top level of the five level group was dropped and the next new level was added onto the bottom end, and the testing was begun again. The output of SIGPT was a printout and computer card deck. The printout was checked for obvious errors such as wrong input.

The final program, SARCS, plots temperature, salinity, and sigma-t versus depth, and also plots a T-S diagram. The output, in addition to the plots, consists of a printout and computer card deck. The printout was subjected to a final quality control based on a careful study of the plots which indicated that the data reported herein was not grossly unreasonable. The card deck was submitted to NODC. (Note: Recent changes to standardize the data processing procedures at the CG Oceanographic Unit have resulted in some program name changes as well as minor changes in the way in which future data will be processed.)

Quality Control

STD data were quality controlled by comparing STD analog trace and DDL values with temperature and salinity values obtained from Niskin bottles attached just above the underwater sensor unit. Quality control (QC) samples were taken at the surface, 200, 500, and 1000 meters where possible. The Niskin bottle was equipped with protected (and for the 500 and 1000 meter samples, unprotected) deep sea reversing thermometers. The thermometers were allowed to soak for six minutes at each QC depth to reach equilibrium before the Niskin bottle was tripped. The conductivity ratios of the quality control samples were determined using an inductive laboratory salinometer and were converted to salinities utilizing the method established in the International Oceanographic Tables published jointly by UNESCO and the National Institute of Oceanography of Great Britain (1966).

The difference between STD and quality control values of temperature, salinity, and depth were plotted against the station numbers in the order in which they were occupied. Inspection of the plots indicated that the depth and temperature values should be corrected by values which did not change throughout the cruise. The correction for salinity values appeared to go through three phases, becoming worse as the cruise progressed. The final corrections shown in Table 1 were based on the average corrections for surface and 1000 meters. The correction for intermediate values was linearly interpolated. The data for 200 and 500 meters indicated that

TABLE 1.—STD Environmental Profiling System Data Corrections

Parameter	*Level*	*Correction*	*Remarks*
Depth	0 m	0 m	All Stations
Depth	1000 m	−16 m	All Stations
Temperature	0 m	−0.01°	All Stations
Temperature	1000 m	+0.01°	All Stations
Salinity	0 m	+0.01‰	Stations 1–6, 53
Salinity	1000 m	−0.03‰	Stations 1–6, 53
Salinity	0 m	+0.10‰	Stations 7–17, 49–52, 54–68
Salinity	1000 m	+0.06‰	Stations 7–17, 49–52, 54–68
Salinity	0 m	+0.16‰	Stations 18–48
Salinity	1000 m	+0.15‰	Stations 18–48

the actual correction should not have been linear; however, the 200 and 500 meter data did not seem sufficient to justify a more complex correction.

Navigation

Navigation during the cruise was based primarily on information from Loran-C. Loran-A, fathometer, satellite navigation (NAVSAT), and OMEGA were used as backup systems. Positions on most of the cruise were probably accurate to 0.2–0.4 nmi.

Current Meters

Three current meter arrays were set for a period of about 2 weeks south of Long Island (fig. 1). Array #1 consisted of a current meter at approximately 20 meters; array #2 consisted of current meters at approximately 20 and 40 meters; and array #3 consisted of a current meter at approximately 20 meters. The data from these current meters are now being analyzed and the results of the analysis are to be reported in a future publication by the Oceanographic Unit.

DATA PRESENTATION

Data Listing

Temperature, salinity, and depth values at standard levels of 0, 10, 20, 30, 40, 50, 75, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400 and 1500 meters, along with time, position, meteorological, and sea surface data were submitted to the National Oceanographic Data Center (NODC), which later provided printed data listings. In addition to the data submitted, the printed listings also contain values for sigma-t, specific volume anomaly, dynamic height, and sound velocity computed at NODC. The printed data listing for this cruise is contained in Appendix A.

Surface Contours

Surface values of temperature and salinity were plotted along the cruise track, and surface contours were produced from these values (figs. 3 and 4). The sea surface temperature contours from the cruise may be compared to those collected 19–21 August 1974 during a Coast Guard Airborne Radiation Thermometer flight (fig. 5).

Mean Vertically Averaged Sigma-t, σ_t

Column averaged values for sigma-t on the shelf were computed using the finite difference relationship

$$\sigma_t = \frac{1}{D} \sum_{i=o}^{n} \sigma_n Z_n$$

where $\sigma_n = (\sigma_t + \sigma_B)/2$ is the mean value of sigma-t in layer of thickness Z_n, σ_t and σ_B are the sigma-t values at the top and bottom of the layer respectively, and D the depth of the deepest observation, not to exceed 200m. Contours of mean vertically averaged sigma-t (fig. 6a) seem to be linked to the general summer circulation pattern which appears to parallel the coast (Bumpus, 1969).

Dynamic Height Contours

The general surface circulation along the eastern continental slope can be inferred from dynamic height contours (fig. 6b). Flow is parallel to the isopleths with high values to the right looking downstream. The assumptions and theory of inferring currents from dynamic heights are discussed in Sverdrup et al. (1942, pp. 451–457). Dynamic heights were referenced to the 1000 decibar level. The reference level was chosen using the method of Defant (1941). Dynamic heights for stations where the water depth was less than 1000 meters were calculated in a manner similar to that described by Helland-Hansen (1934).

The general pattern shown by the dynamic topography chart is a 10 to 30 cm s^{-1} southwesterly flow on the shelf and two anticyclonic circulations in the slope water. The southerly of the two circulations is obviously an eddy. Infrared satellite imagery subsequent to the cruise leaves little doubt that the northerly circulation is also an eddy.

Vertical Section Contours

Vertical sections for temperature, salinity, and sigma-t to a depth of 1000 meters were drawn for Sections A-F which were approximately normal to the coastline (figs. 7–24). A more meaningful presentation of vertical section contours was produced by greatly exaggerating the vertical distance scale in comparison to the horizontal distance scale.

RESULTS

The annual cycles of temperature and salinity on the continental shelf between Cape Cod and Cape Hatteras have been described by Bigelow (1933), Bigelow and Sears (1935), Walford and Wicklund (1968), and others. The conditions found in August 1974 were in general agreement with most features found by previous investigators (Table 2).

TABLE 2.—Comparison of Oceanographic Features in the New York Bight in August 1974 With Those Reported by Other Investigators

Feature	*August 1974*	*Other Investigators*
Sea surface temperature	20° to 25°C	20° to 25°C (Walford and Wicklund, 1968)
Temperature difference between surface and bottom at 35–50 meter contour zone	9° to 15°C	13 to 16°C (Bigelow, 1933) 15°C (Walford and Wicklund)
Sea surface salinity	<31 ‰ to >35‰	<32‰ to >35‰ (Bigelow and Sears, 1935)
Presence of cold core on shelf	Yes	Yes (Bigelow, 1933; Bigelow and Sears, 1935; Whitcomb, 1970)
Presence of high salinity core on slope	Yes	Yes (Bigelow and Sears, 1935; Whitcomb, 1970)
Presence of shelf slope temperature front	Yes	Yes (Bigelow, 1933; Bigelow and Sears, 1935; Cresswell, 1967)
Presence of shelf slope salinity front	Yes	Yes (Bigelow, 1933; Bigelow and Sears, 1935; Cresswell, 1967)

Cold Core

A cold core was found on the shelf at depths of 20 m. to 60 m. from the surface, at a distance of 20 to 70 nmi from the coast (fig. 7–12). This core, mentioned by Bigelow (1933), was defined by Whitcomb (1970), as having temperatures below 8 C. The pool or core is the remant of a winter shelf water formed at the surface (Whitcomb, 1970). Because of the southwesterly 0.2–0.5 nmi per day bottom drift along the shelf (Bumpus, 1965), there is some renewal of the core from the northeast, however, this renewal is probably minor compared to the annual renewal through surface cooling. The core, in August 1974, was found only at stations 11 and 21, thus it was considerably smaller than that shown in Whitcomb (1970) and than the 7.5°C core shown in Walford and Wicklund (1968). However, the presence of a cold core defined by the 10°C isotherm can be easily traced along the shelf from section F to section A (figs. 7–12). Evidence of a tongue related to the core was found at station 28. The source of this tongue can be traced northeast through station 37 to station 45 along the sigma-t surface of about 26.0. An alternative identification of a tongue as a "calved bubble" is discussed by Cresswell (1967).

High Salinity Core of Slope Water

Extending parallel to the shelf edge, and 5 to 10 nautical miles seaward from this edge, was a band of higher salinity water similar to that reported by Bigelow and Sears (1935) and others [Whitcomb (1970) for example]. This band is simply an expression of the impingement on the slope bottom of typical North Atlantic Central Water (Iselin, 1936), the surface of which has been freshed by mixing with shelf water. Following Whitcomb's (1970) example for September 1967 of defining the core as salinities greater than 35.75°/₀₀, the defined core did not reach the surface, and its depth range was dependent on whether or not there was an eddy present.

On section A the core was characterized by an anticyclonic eddy which caused the cross-section of this core to increase considerably. Maximum salinity in the core section of this eddy was 36.2°/₀₀, and the 35.75°/₀₀ isohaline extended from about 20 to 375 meters. The defined core was absent on section B north of the eddy; on sections C and D it was found between about 70 to 120 meters. Sections E and F were influenced by a large eddy eastward of the sections, thus the defined core extended from about 30 to 210 meters and was still increasing in thickness at the end of the sections. The salinity and sigma-t profiles show little evidence for the 35.75°/₀₀ core intersecting the bottom, although there is an obvious bottom salinity maximum over the shelf break.

Temperature/Salinity Correlations

The temperature salinity correlation for water present in the New York Bight during August 1974 could be accounted for in terms of the principal modes described by Hayes (1975) (figs. 25a, and 25b).

In August 1974 waters from the coastal area and contained within a band extending approximately 40 nautical miles offshore had characteristics that fell within an envelope with salinities less than 33.5°/₀₀ (Envelope A, fig. 25a). Note that the lower portion of this envelope includes what Hayes called Middle Atlantic Bight Coastal Water. The lower portion of the envelope also represents the cold core previously described. The upper portion of the envelope reflects the warming effect of summer surface heating and the freshening effect of spring run-off.

Water from the centers of the two eddies fell within an envelope with salinities greater than 34.0°/₀₀ (Envelope B, fig. 25a), displaying characteristics similar to those described as Regions 8 and 9 in "Physical Properties of the North Atlantic Ocean," Naval Oceanographic Office Publication #700, Section II (fig. 25b). This envelope could also be explained in terms of Hayes' Gulf Stream Water, Surface—and Mid-slope Water, and Deep Slope/North Atlantic Deep Water if allowance were made for summer warming of his Surface—and Mid-slope Water (fig. 25b).

At the stations between those found in the two envelopes the water shows the influence of mixing between the envelopes. Station 28 (fig. 25a) is an extreme example of this mixing. The water at the surface shows characteristics similar to that in envelope B; at depths of about 25 to 70 meters water derived from the cold core is encountered, below this the mid-slope water is found. An example of this type of mixing in shallower shelf water can be seen at station 12 (fig. 25a). Here the influence of surface water in envelope A is much stronger than that in envelope B. Another example of this type of mixing, in deeper slope water, can be observed at station 53 (fig. 25a). Here the influence of surface water from envelope A cannot be seen at all, and the influence of the cold low salinity core at the bottom of envelope A is slight. Similar situations are found for stations 6, 51, 50, 54, 55, and 49 around the southern eddy, and for station 26 near the northern eddy. These stations appear to basically represent slope or eddy water with which some shelf water has been mixed.

Station 29 on the shelf represents intrusion of slope and eddy derived water onto the shelf. This is apparent in the salinities of 35.5°/₀₀ found around 30 meters.

Circulation

In coastal waters, where there is adequate fresh water discharge, a slope of the sea surface downward from the coast offshore is usually attributed to the increases in the steric anomaly related to run-off. The resulting dynamic gradient is associated with a steady flow turned to the right (in the northern hemisphere) and thus nearly parallel to the coast. Steady wind drift currents may modify this rough picture (Bum-

pus, 1969). In a recent Coast Guard Oceanographic Unit Technical Report, Bishop (1975) develops an operationally oriented technique to estimate these steady coastal currents. Input parameters to the model are the surface wind stress and mean vertically-averaged sigma-t gradient.

On the August 1974 cruise, measurements of sigma-t indicated a strong (i.e., 3×10^{-10} gm cm^{-4}) cross-shelf gradient in the vertically averaged sigma-t field. This is generally the typical summer density structure as contrasted to the weakly stratified (i.e., 1×10^{-10} gm cm^{-4}) winter shelf water. The summer wind field exhibits mean stress values of the order of 10^{-2} dynes cm^{-2} toward the northeast while winter mean stress is in the 1 dyne cm^{-2} range toward the southwest according to data the for 5° square centered at 37.5° N 72.5° W as presented in Hidaka (1958). Both in summer and winter a south to southwest mean drift is derived from drift card data (Bumpus, 1969). It seems straightforward that this velocity field (approximately equal in magnitude for each season) is maintained in the summer months by the well developed density field, and in the winter by the mean wind stress.

Note added in proof. Recent computations of the mean winter wind stress in shelf waters shows the stress to be toward the northeast rather than the southwest. A paper by Beardsley and Butman (1974) suggest that along shore pressure gradient may be a significant factor in maintaining a mean southwest drift against the opposing mean wind stress.

Measured values of this mean vertically averaged sigma-t gradient, obtained on this cruise, were used in calculations to estimate surface coastal drift based on the above mentioned analytical model (wind stress was neglected). The result indicated a shelf circulation (fig. 6a) generally setting toward the southwest with maximum surface velocities near the shelf break of approximately of 20 cm sec. This calculation approximates estimates of surface drift on the Mid-Atlantic shelf (Bumpus and Lauzier, 1965).

Comparison of the shelf circulation derived from this model (fig. 6a) with that derived from dynamic topography (fig. 6b) shows that the two are in general agreement but differ in details. The differences are probably related equally to differences in the governing equations (Bishop includes friction in his model) and to differences in applying the data (Bishop uses a mean sigma-t gradient for each section; the dynamic method uses the dynamic height for individual stations).

In waters seaward of the slope, contours of dynamic heights referenced to 1000 meters (fig. 6b) indicate the presence of two anticyclonic eddies with a trough between them. The slope circulation is dominated by the two eddies, the only other feature present being the trough. Maximum geostrophic speeds in the southern eddy are approximately 40 cm sec^{-1}.

An Anticyclonic Eddy in the Slope Water

One of the interesting features found during this cruise was the anticyclonic eddy located about 115 nmi southwest of Cape May, New Jersey (fig. 6b). Eddies such as this are a common feature in the slope water along the continental slope of the New York Bight. Infrared satellite imagery shows that there is a continual progression of such anticyclonic eddies through the Bight. They commonly have a diameter of 50 to 110 nmi with a spacing of about 110 to 220 nmi between eddies. The eddies seem to form from meanders in the North Atlantic Current in the northwest Atlantic, generally east of 65°W, and from there drift westward and southwestward along the continental slope until they reach the vicinity of Cape Hatteras where they rejoin the Gulf Stream (fig. 5).

The eddy southwest of Cape May appears on the temperature, salinity, and density sections as a core of warm saline water which is less dense than the surrounding water (figs. 7, 13, and 19). This core has a temperature of 15° to 16° C, a salinity of 36.1 to 36.2 ‰, and a σ_t of 26.80 to 27.00.

Evidence of a second eddy located about 120 nmi south of Block Island was found on sections E and F (fig. 6). The center of the northern eddy was seaward of the available observations, and no conclusions can be drawn comparing the two eddies.

The circulation pattern around both eddies was anticyclonic, as indicated on the dynamic topography chart. The dynamic topography chart showed geostrophic speeds in the southern eddy of up to about 40 cm sec^{-1}.

Following the survey of the smaller eddy, a surface current drogue (fig. 26) was deployed

in the southwest quadrant of the eddy and tracked by LORAN C for 12 hours (fig. 27). The drogue was then recovered and re-deployed in the eddy's northern quadrant and tracked for about 36 hours (fig. 28). The tracks of the drogue can be accounted for satisfactorily by assuming that prior to and during the drogue experiment the eddy drifted southward at a speed of about 0.13 knots, and that the current acting on the drogue was the vector sum of the geostrophic flow in the eddy and a simple wind driven current as described in the National Search and Rescue Manual (1973). The estimated average winds for the tracking episodes are shown in Table 3. The effect of inertial currents can be seen in both of the drogue tracks. During the end of the eddy survey a storm was in progress with winds from the northeast quadrant of the compass at 20 to 25 knots. At about 1600Z on 11 August the wind dropped to 15 knots. This would have permitted an inertial current to begin rotating. The inertial period at the latitude of the eddy is 19.5 hours. It appears from figure 27 that the majority of the 12 hour drift of the southwest quadrant drogue track occurred predominantly during the portions of the inertial period in which there was a northward component to the inertial current. This would account for the northward displacement of the drogue after 12 hours relative to the position indicated by the combination of wind and geostrophic current. The second drogue track (fig. 28) indicates that when the drogue was launched the inertial current was flowing with a northwestward component. The westward movement of the drogue about one inertial period later (1600Z on 13 August) supports this drogue from the direct track between 2146Z on 12 August and 1600Z on 13 August represents the diameter of the inertial circle, one can calculate that the inertial velocity was 46 cm sec^{-1} (Neumann and Pierson, 1966; p. 158). A similar calculation on the drift from 1600Z on 13 August to 1115Z on 14 August when the drogue was recovered indicates that the inertial current had decreased to 38 cm sec^{-1}. These speeds agree with inertial speeds given by Pollard and Millard (1970).

It is of interest to speculate on the effect of eddies such as this in exchanging water between the slope and shelf areas. The average T-S characteristics above 30 meters of stations on the southwest side of the eddy are warmer and more saline than those on the northeast (fig. 29). This leads to the hypothesis that the anticyclonic eddies are a contributing factor in the mixing of shelf and slope waters. Another illustration of possible eddy-related mixing in process can be seen in the salinity profile of section A (fig. 13). The tongue of high salinity water found between 10 and 30 meters on stations 4 and 5 suggests that an eddy can cause intrusion of slope water onto the shelf.

TABLE 3.—Average Wind During Drogue Tracking

Date	*Time (Z)*	*Dir (°T)*	*Spd (kts)*
Aug 09	1800	190	8
Aug 10	0000	345	7
	0600	057	22
	1200	017	26
	1800	015	27
Aug 11	0000	026	22
	0600	015	22
	1200	042	23
	1800	020	14
Aug 12	0000	025	17
	0600	017	12
	1200	357	12
	1800	000	13
Aug 13	0000	325	17
	0600	300	15
	1200	315	15
	1800	260	9
Aug 14	0000	235	10
	0600	242	7
	1200	235	10

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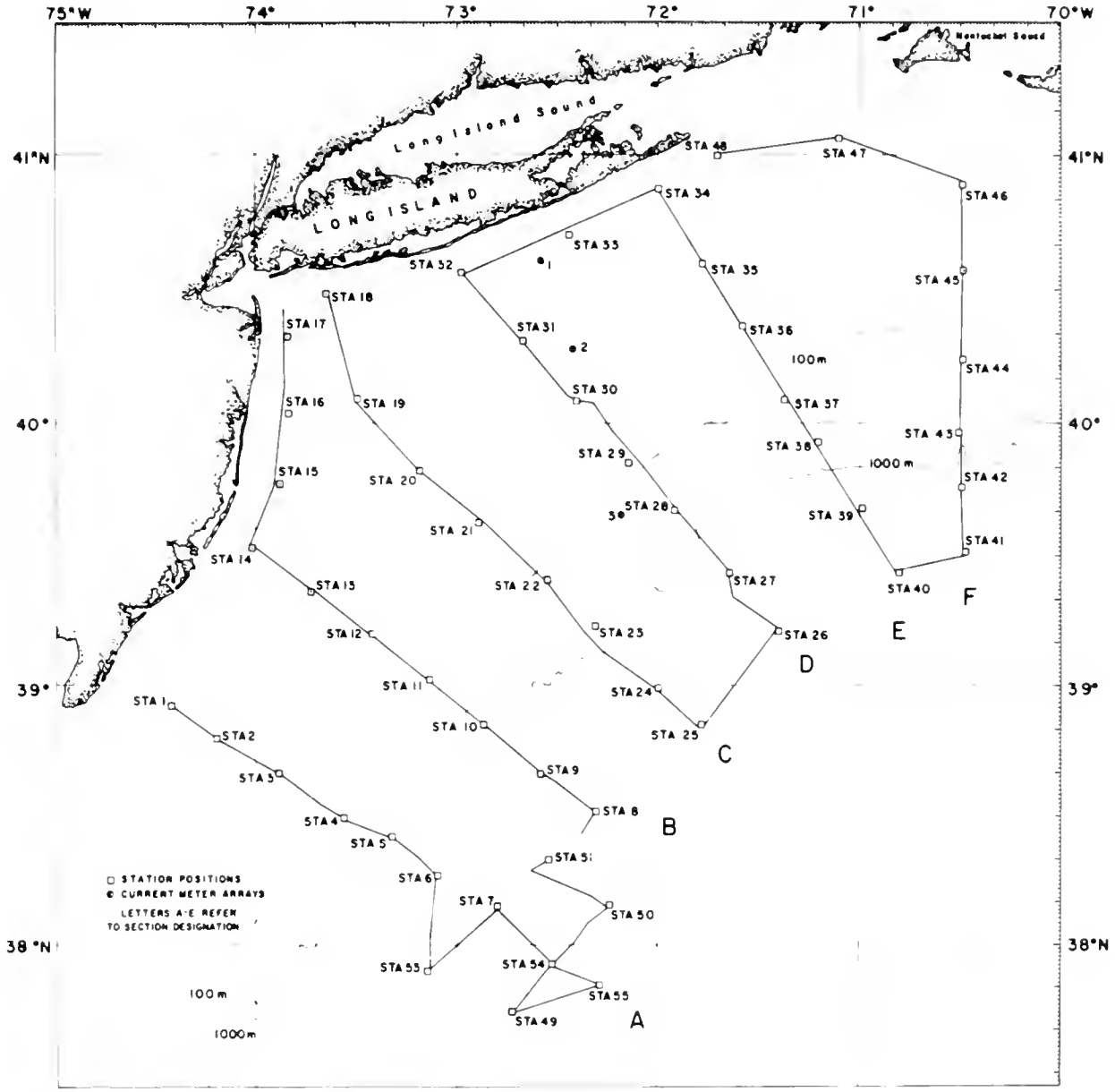

FIGURE 1.—Station and section locations, August 1974

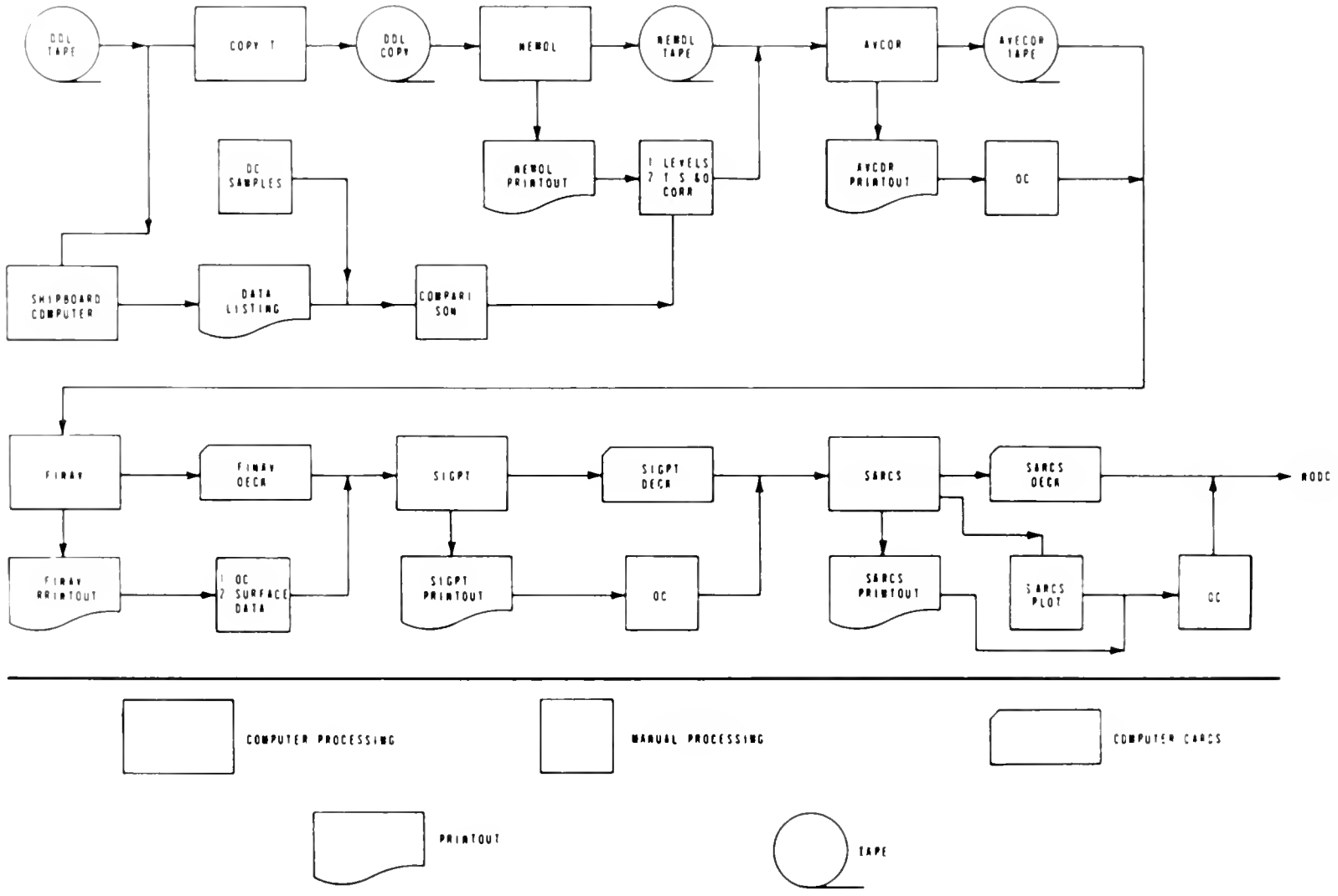

FIGURE 2.—Data processing flow diagram

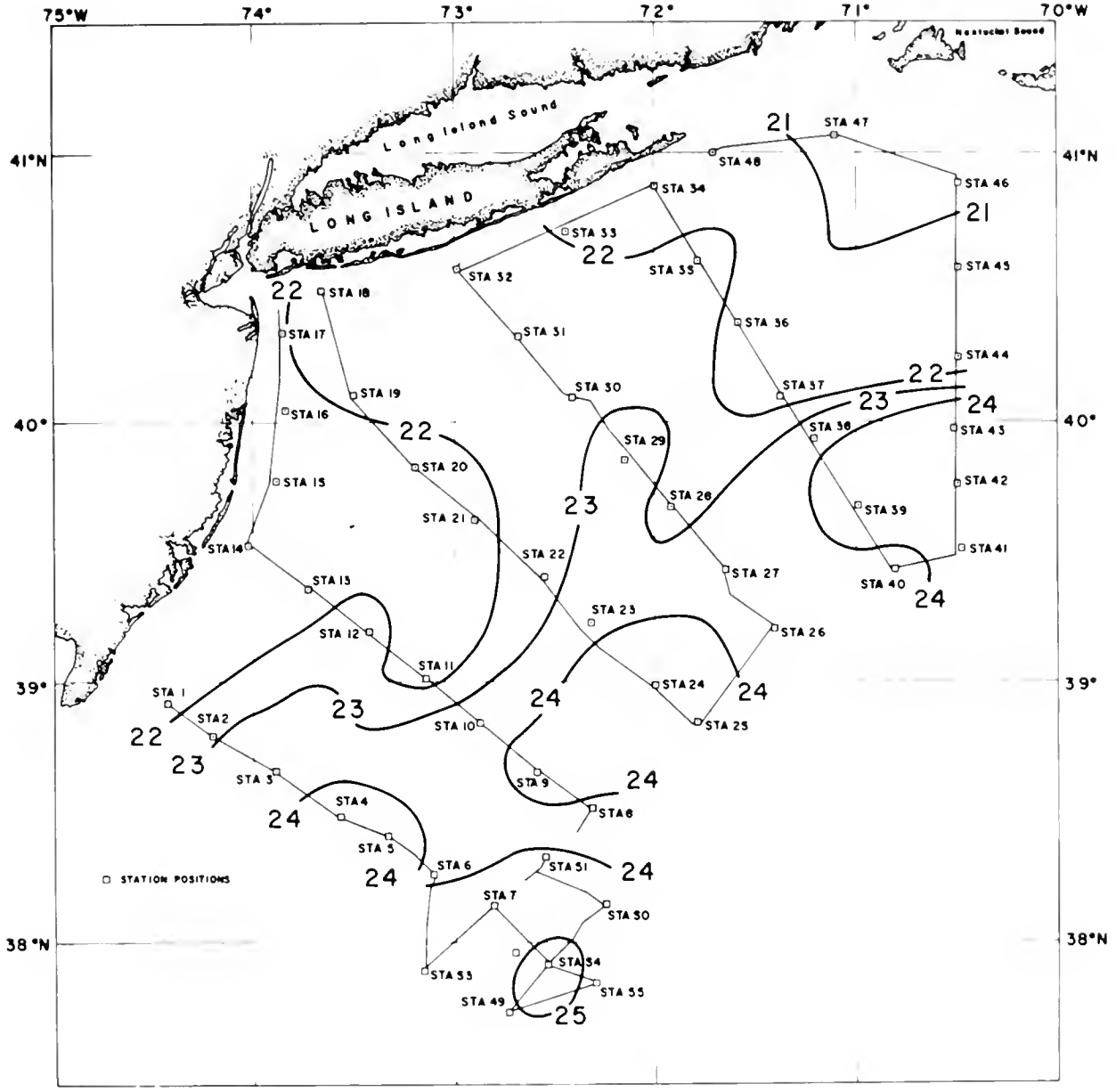

FIGURE 3.—Sea surface temperature distribution, 8–20 August 1974 (°C)

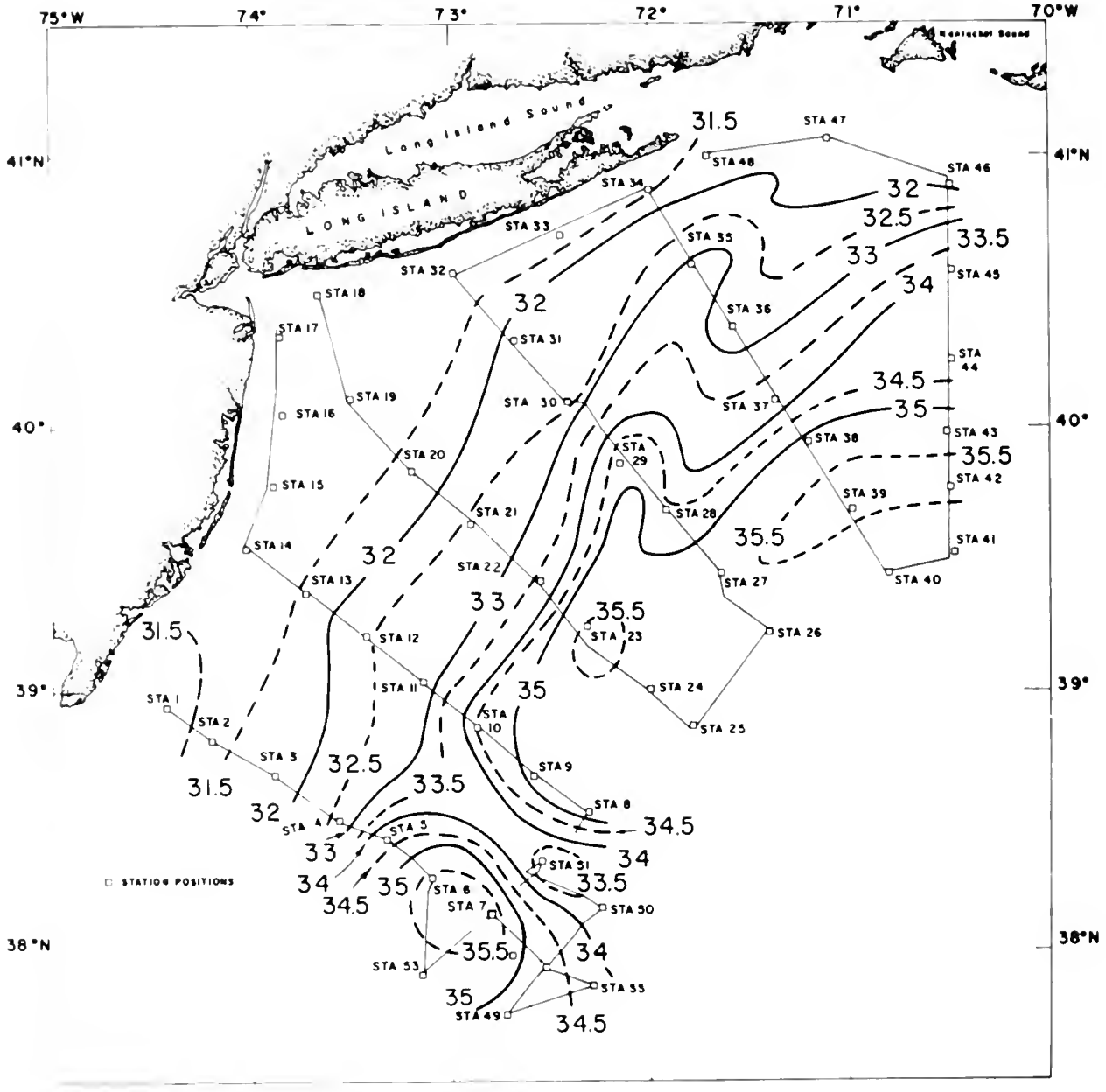

FIGURE 4.—Sea surface salinity distribution, 8–20 August 1974 (‰)

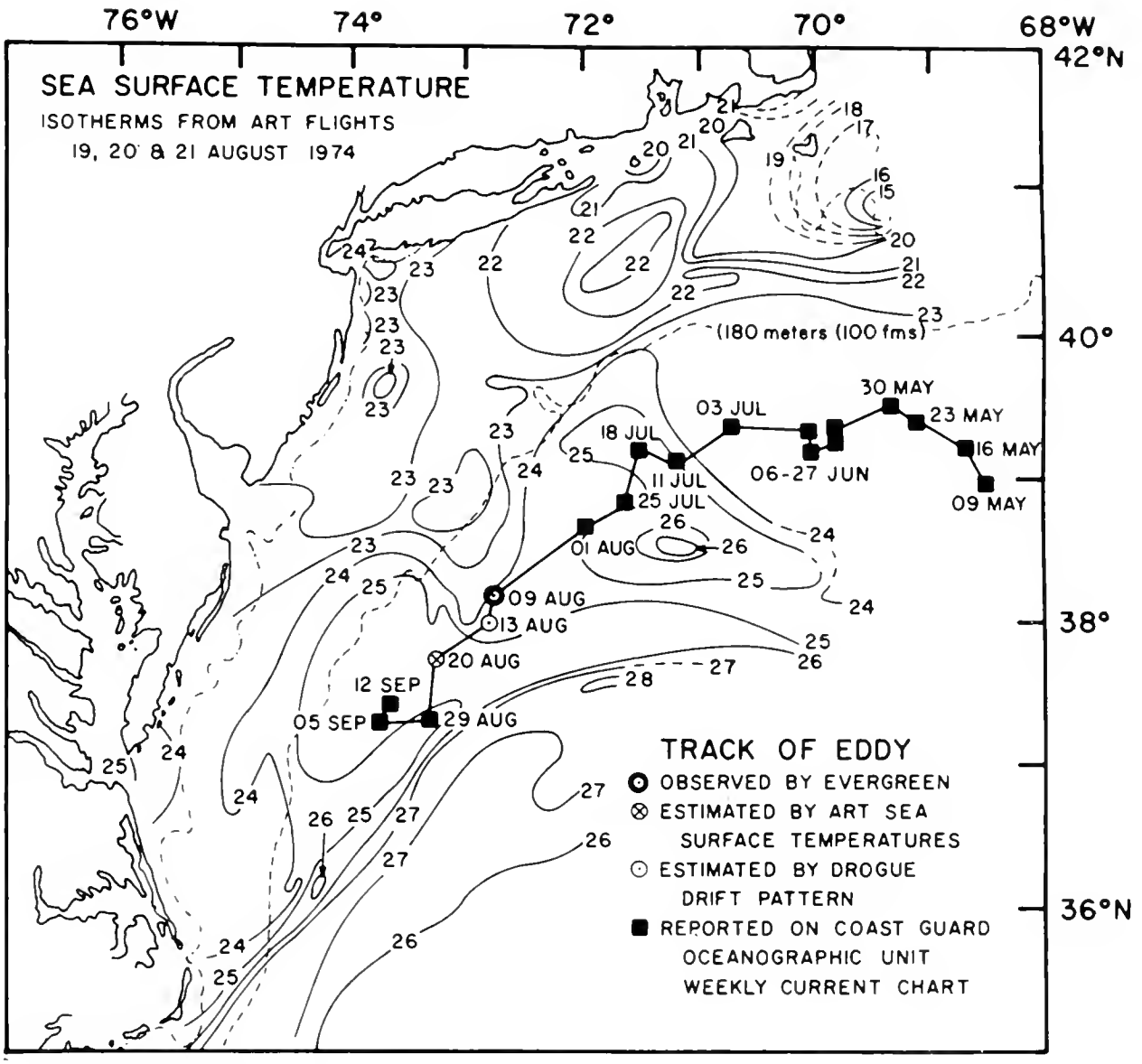

FIGURE 5.—Sea surface temperatures from August 1974 ART flight; track of eddy (°C)

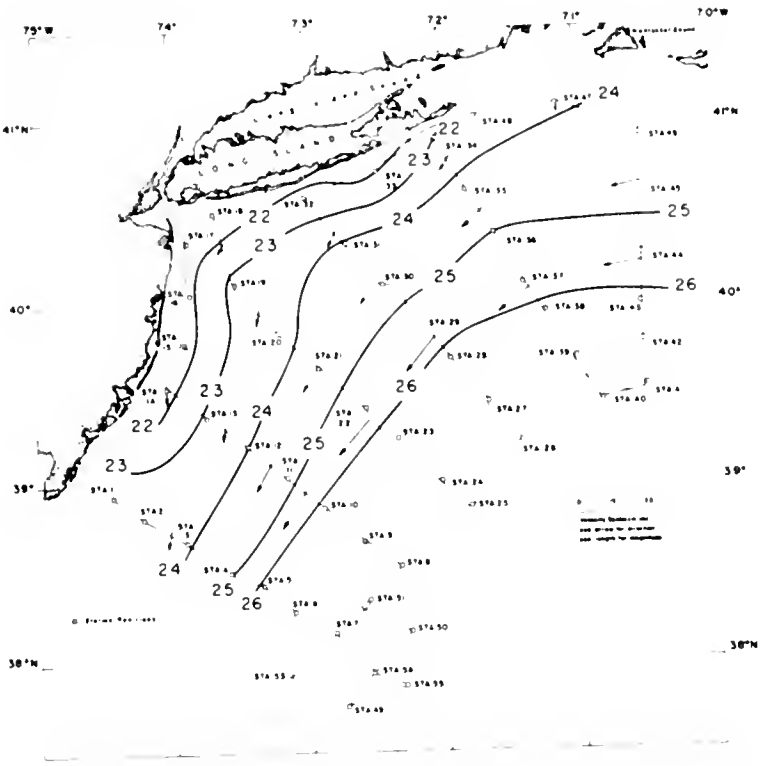

FIGURE 6a.—Mean vertically-averaged sigma-t, August 1974. (Arrows show current computed from Bishop, 1975)

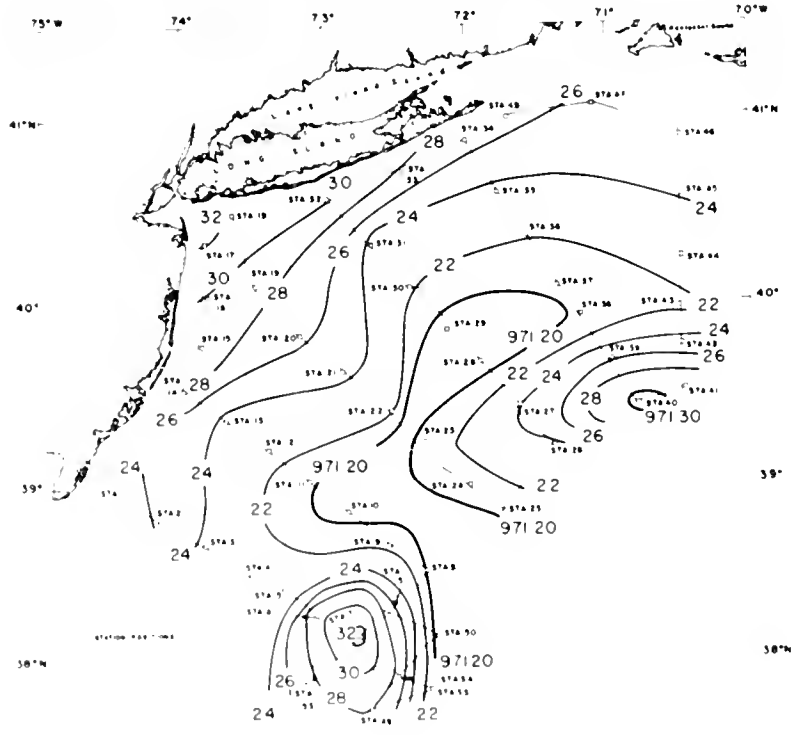

FIGURE 6b.—Dynamic height relative to 1000 decibar surface, August 1974 (dyn. m.)

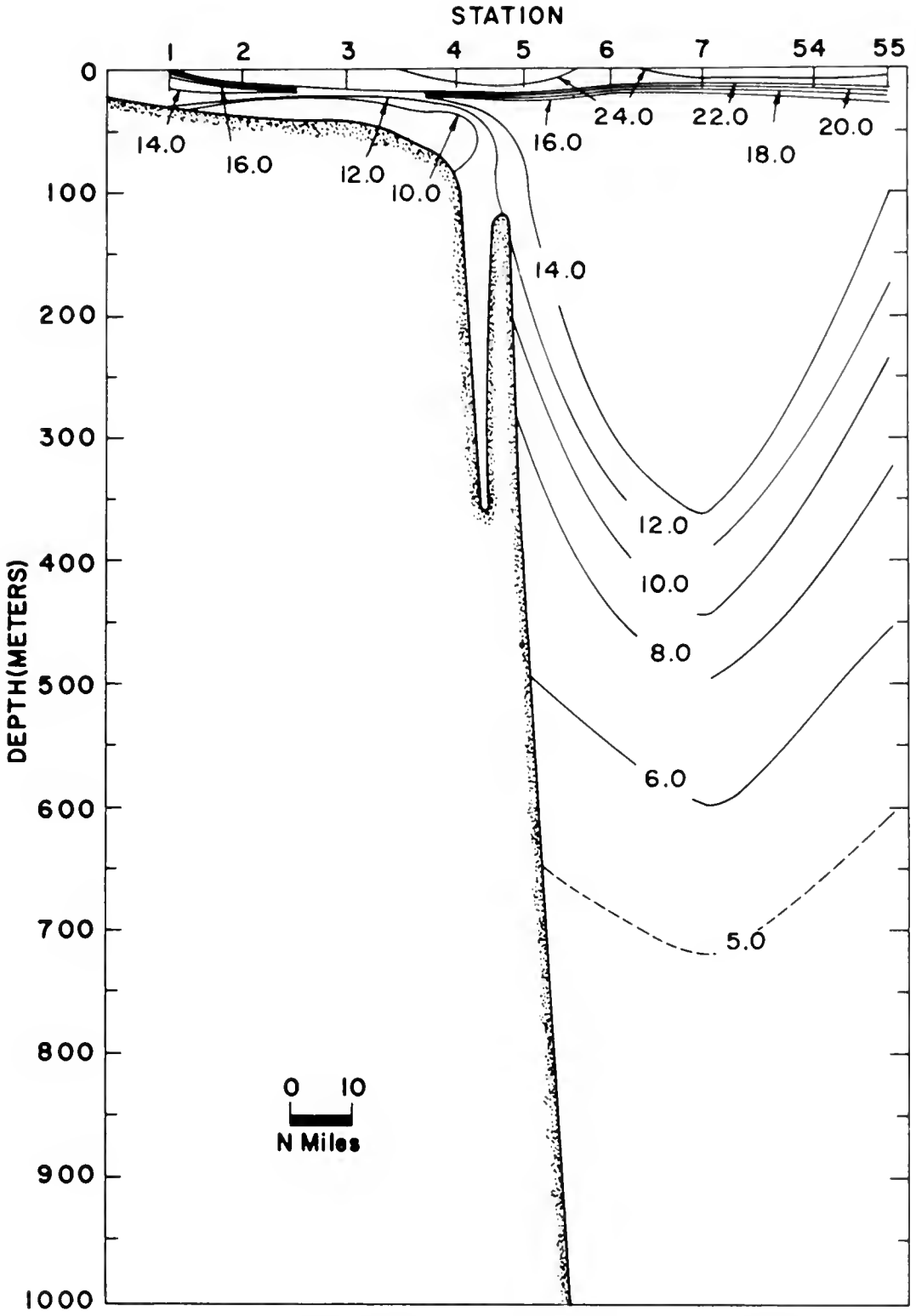

FIGURE 7.—Vertical distribution of temperature, section A, August 1974 (°C)

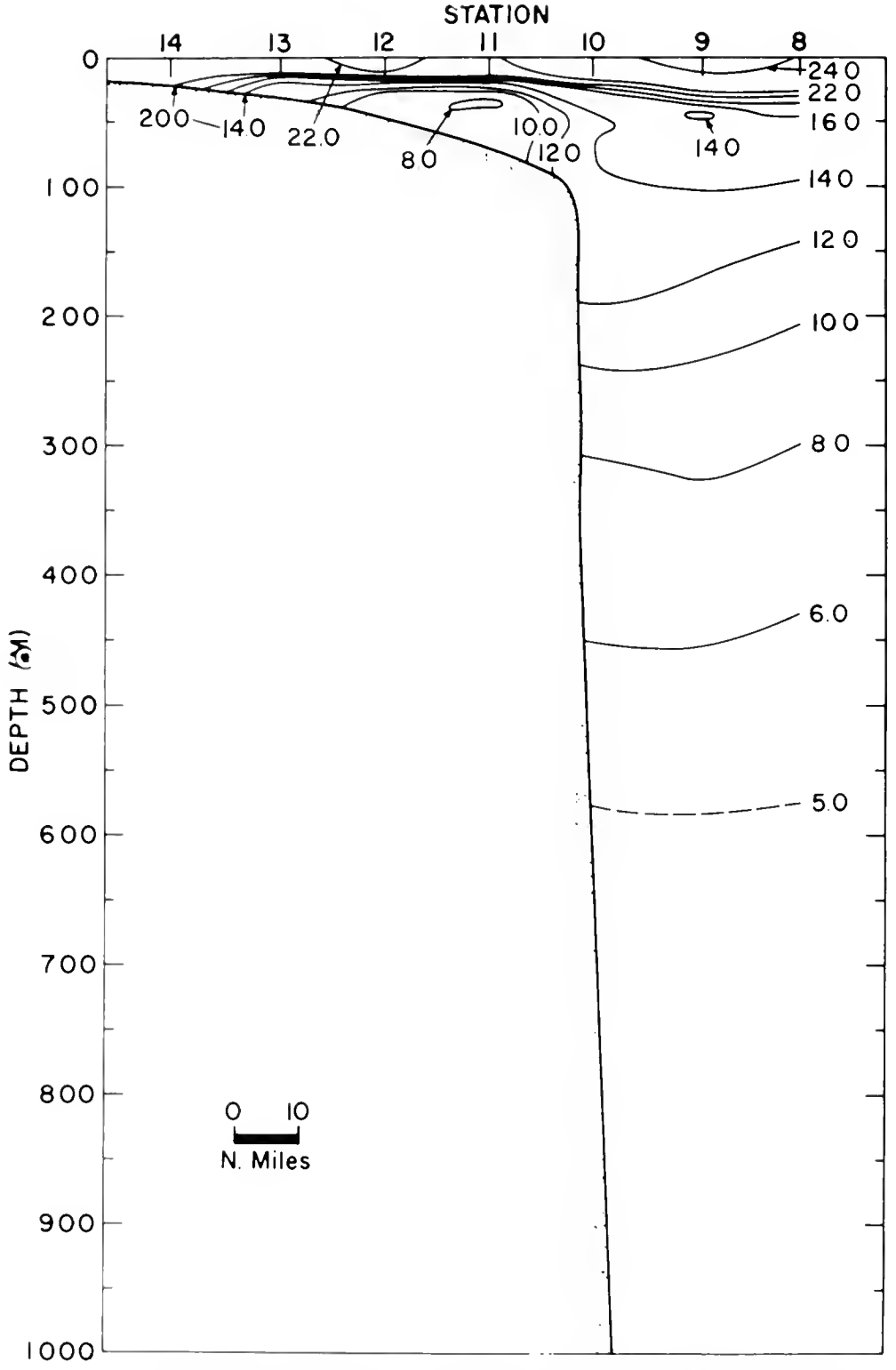

FIGURE 8.—Vertical distribution of temperature, section B, August 1974 (°C).

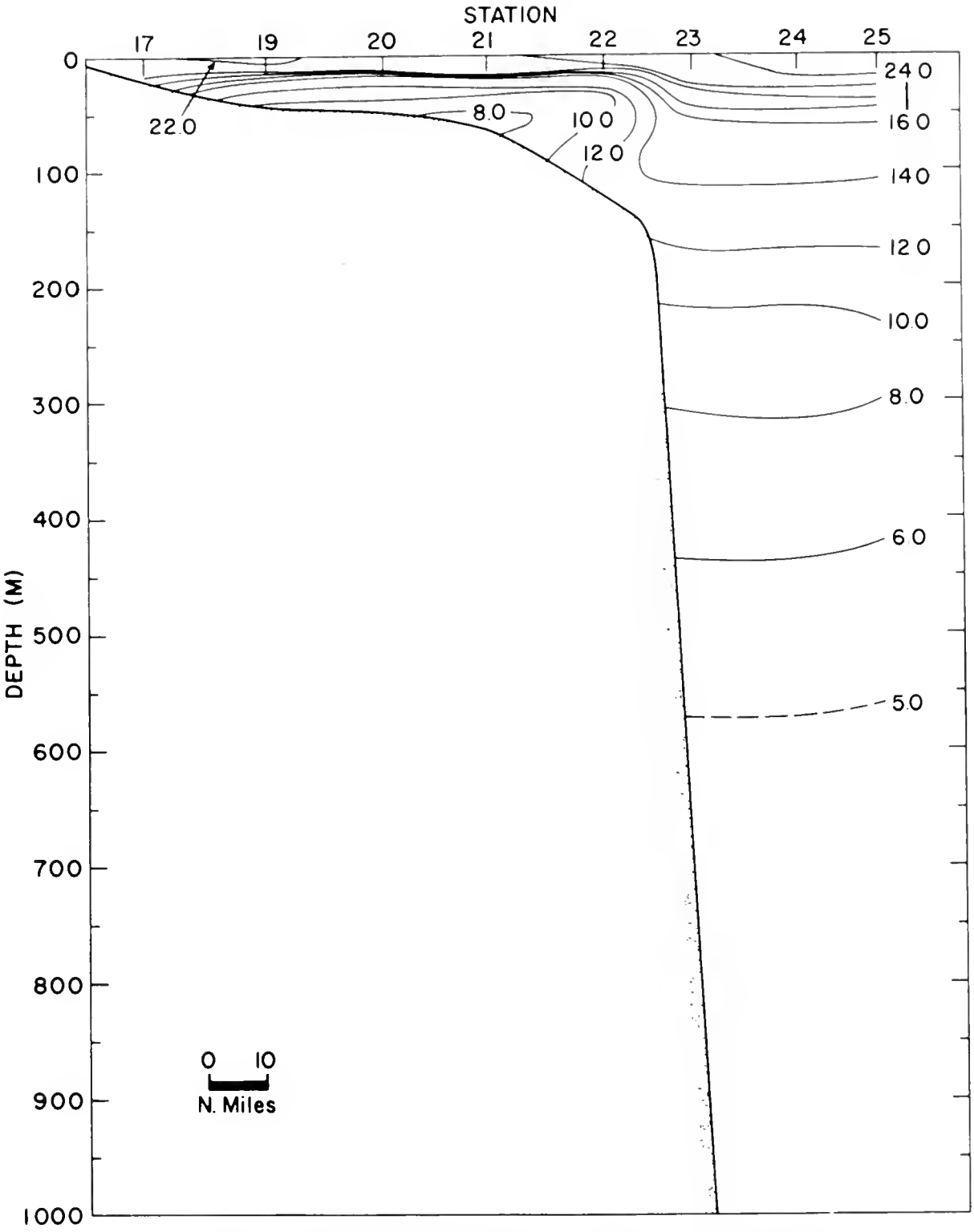

FIGURE 9.—Vertical distribution of temperature, section C, August 1974 (°C)

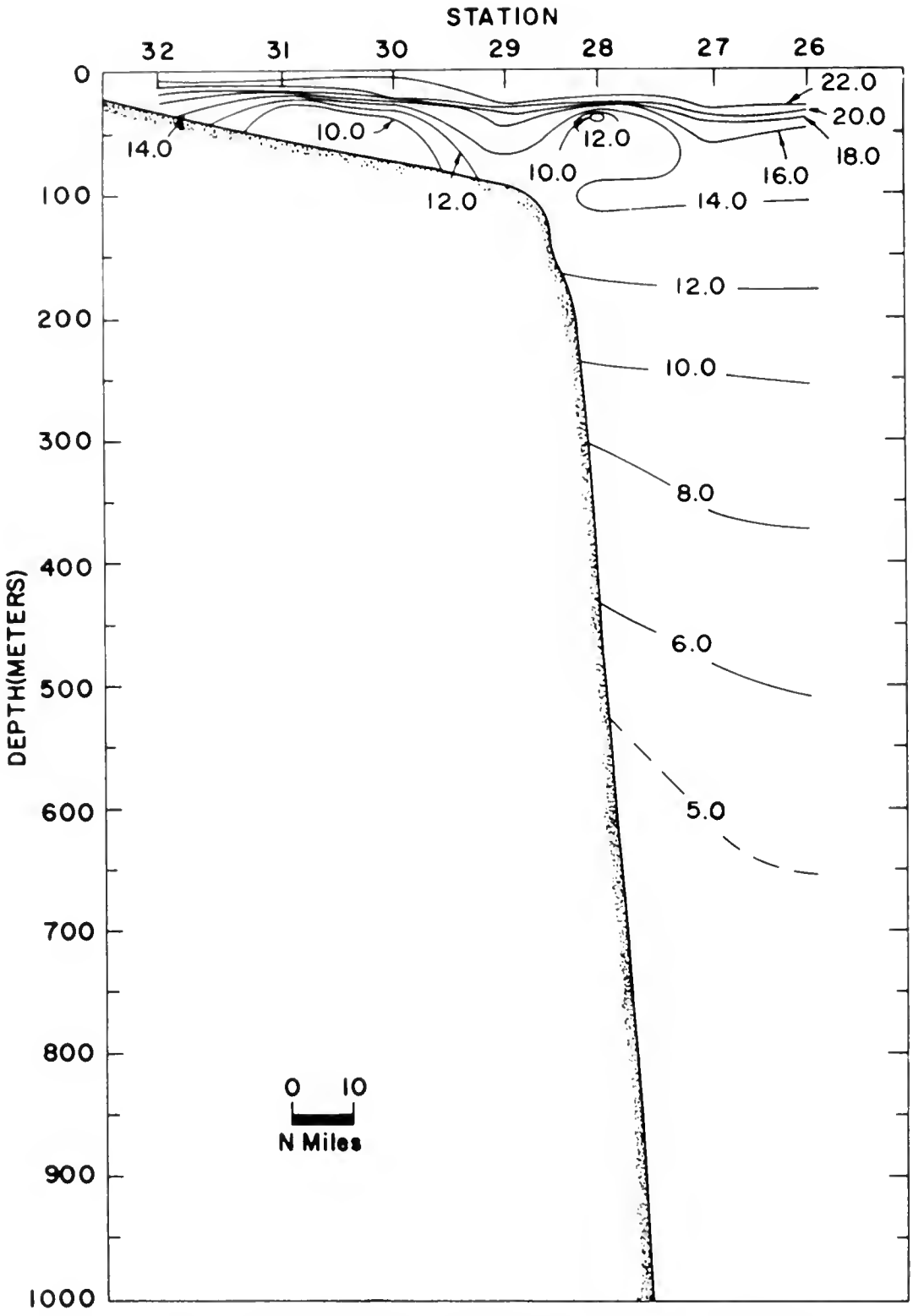

FIGURE 10.—Vertical distribution of temperature, section D, August 1974 (°C)

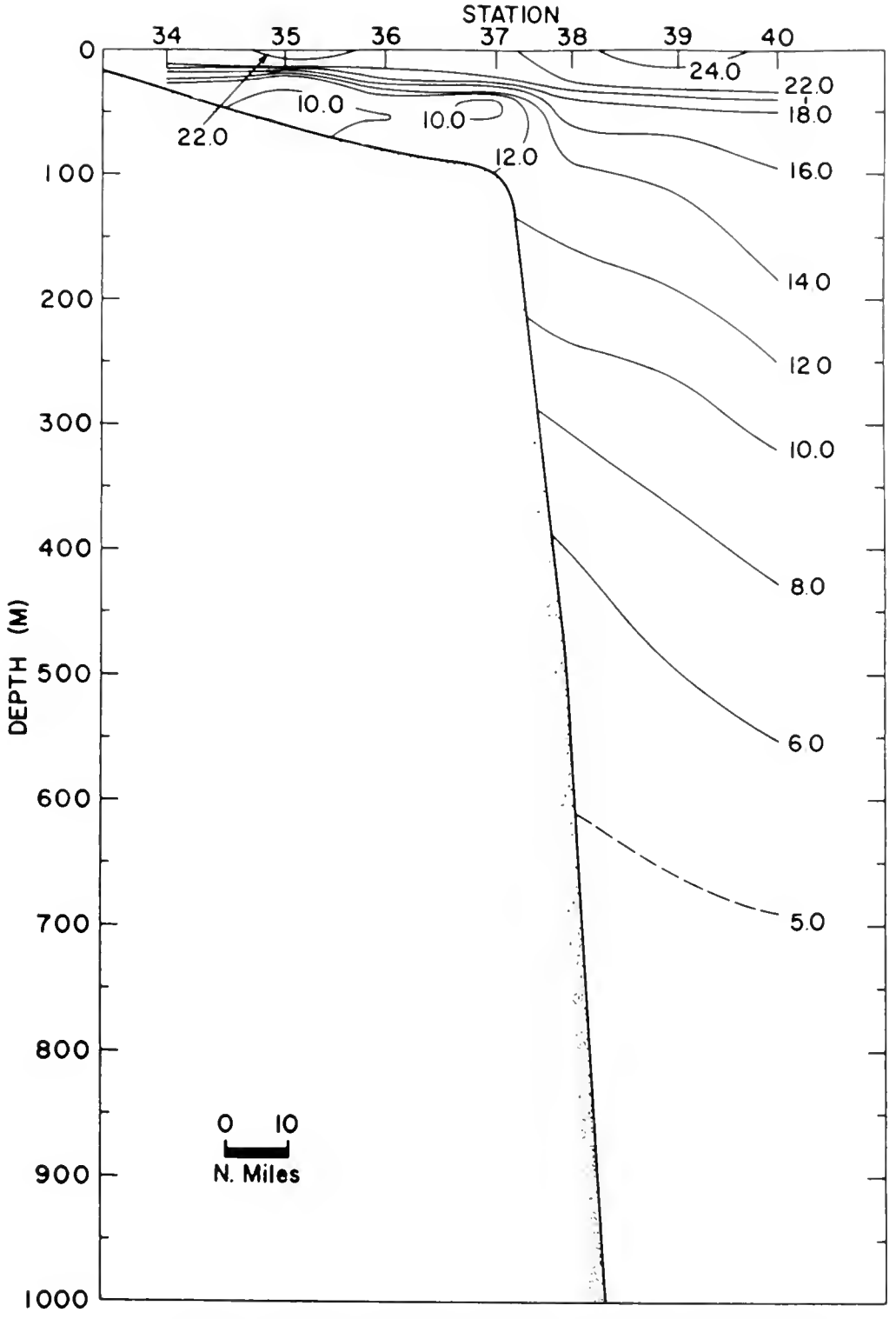

FIGURE 11.—Vertical distribution of temperature, section E, August 1974 (°C)

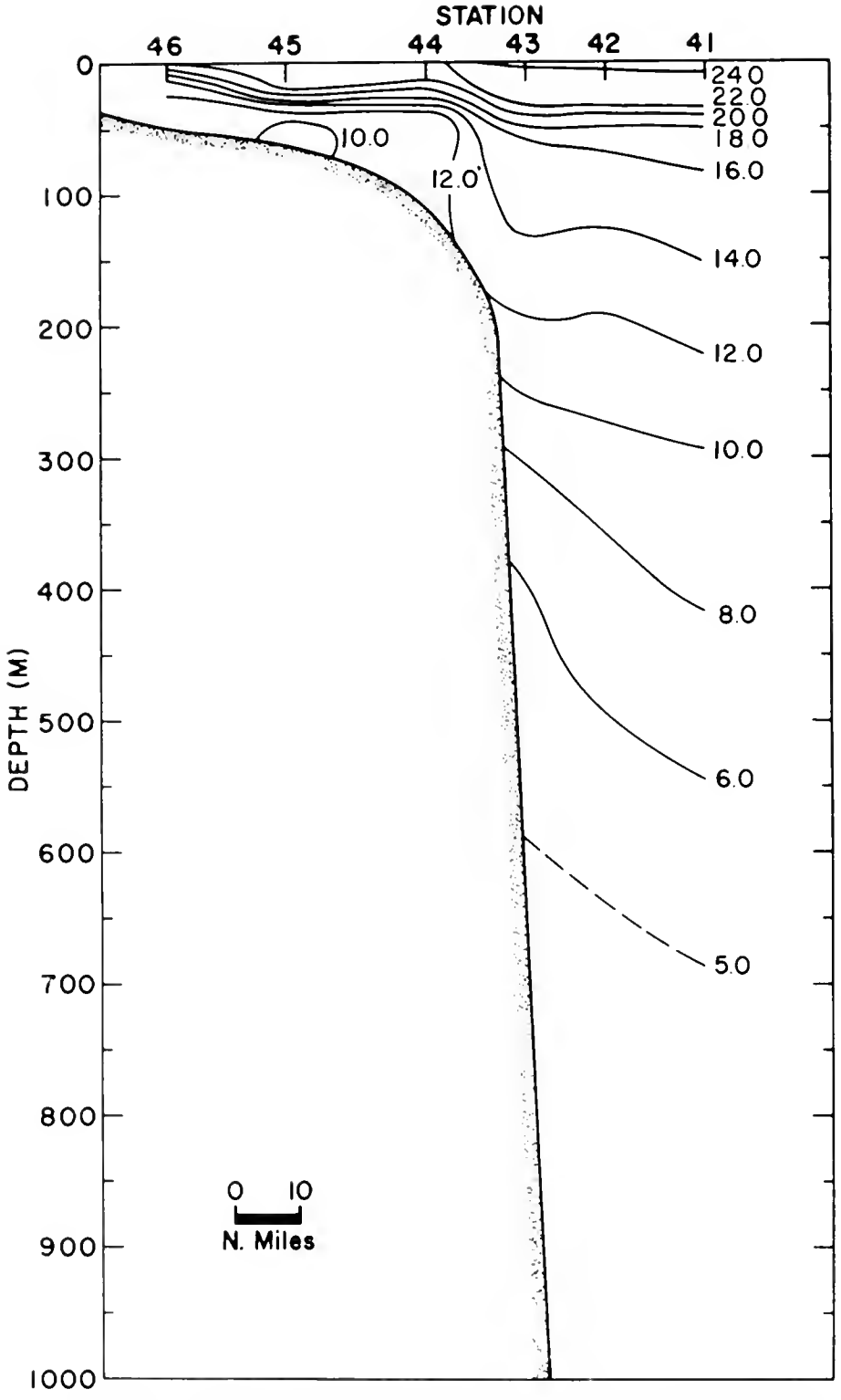

FIGURE 12.—Vertical distribution of temperature, section F, August 1974 (°C)

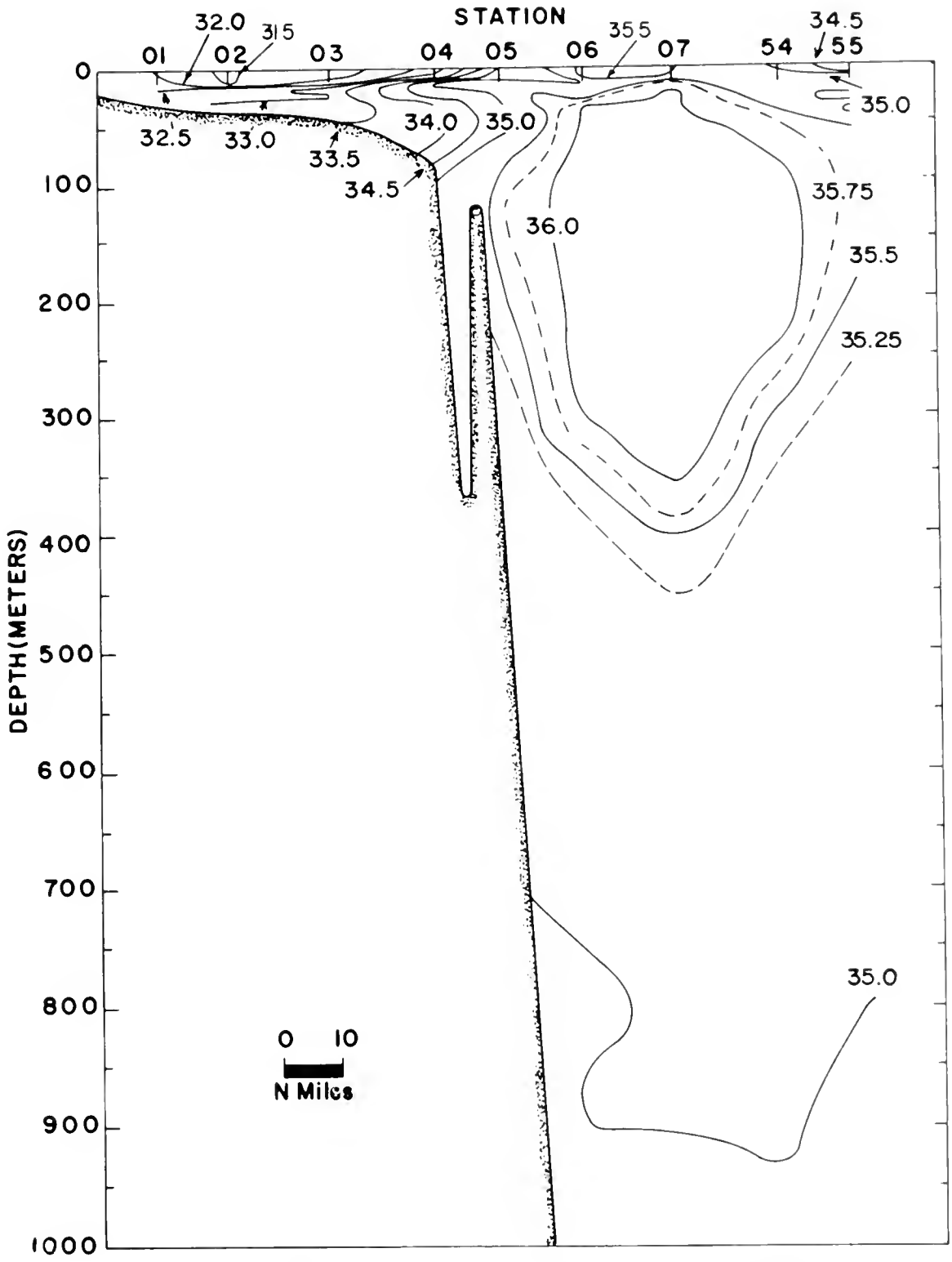

FIGURE 13.– Vertical distribution of salinity, section A, August 1974 (‰)

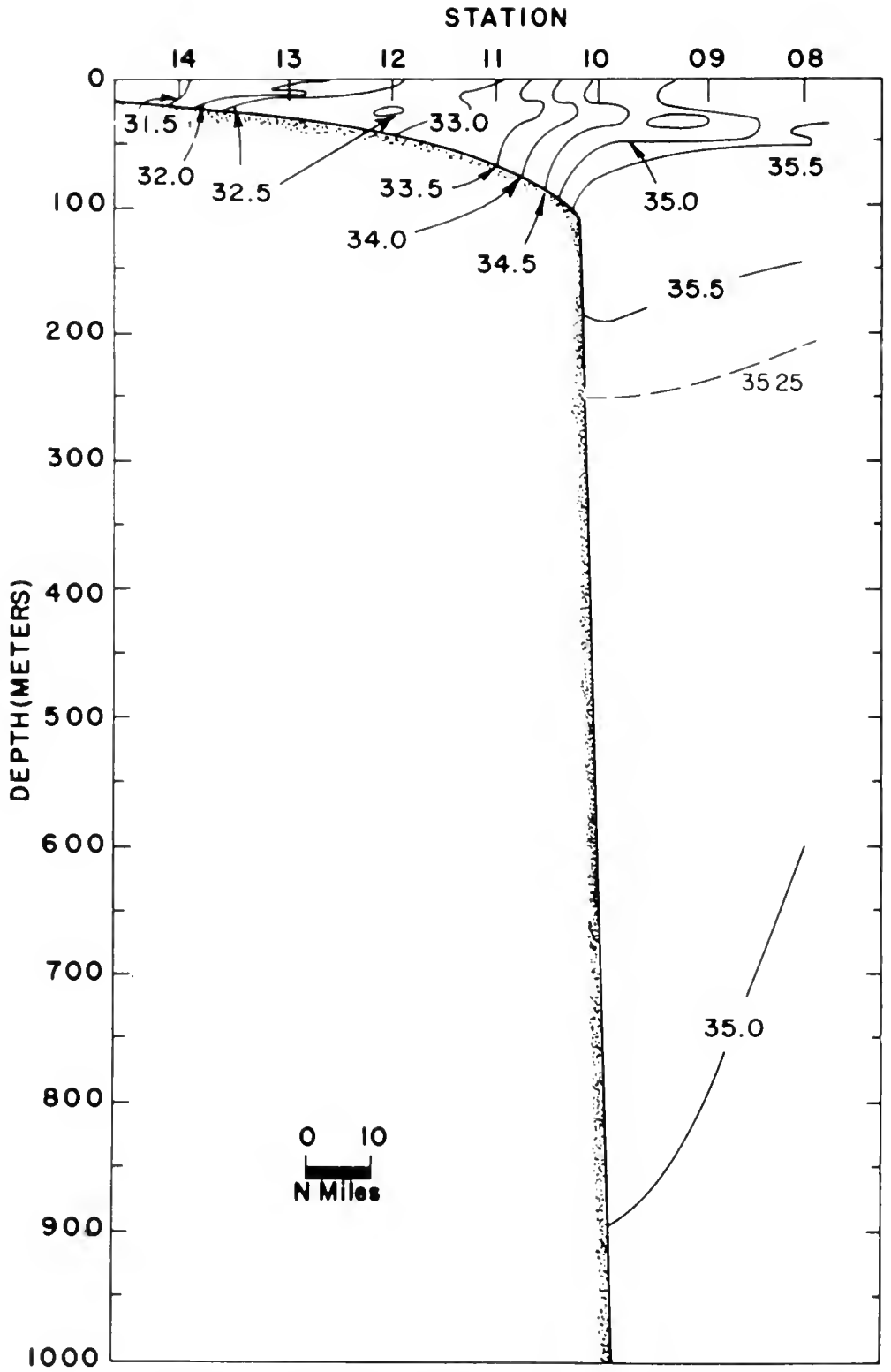

FIGURE 14.—Vertical distribution of salinity, section B, August 1974 (‰)

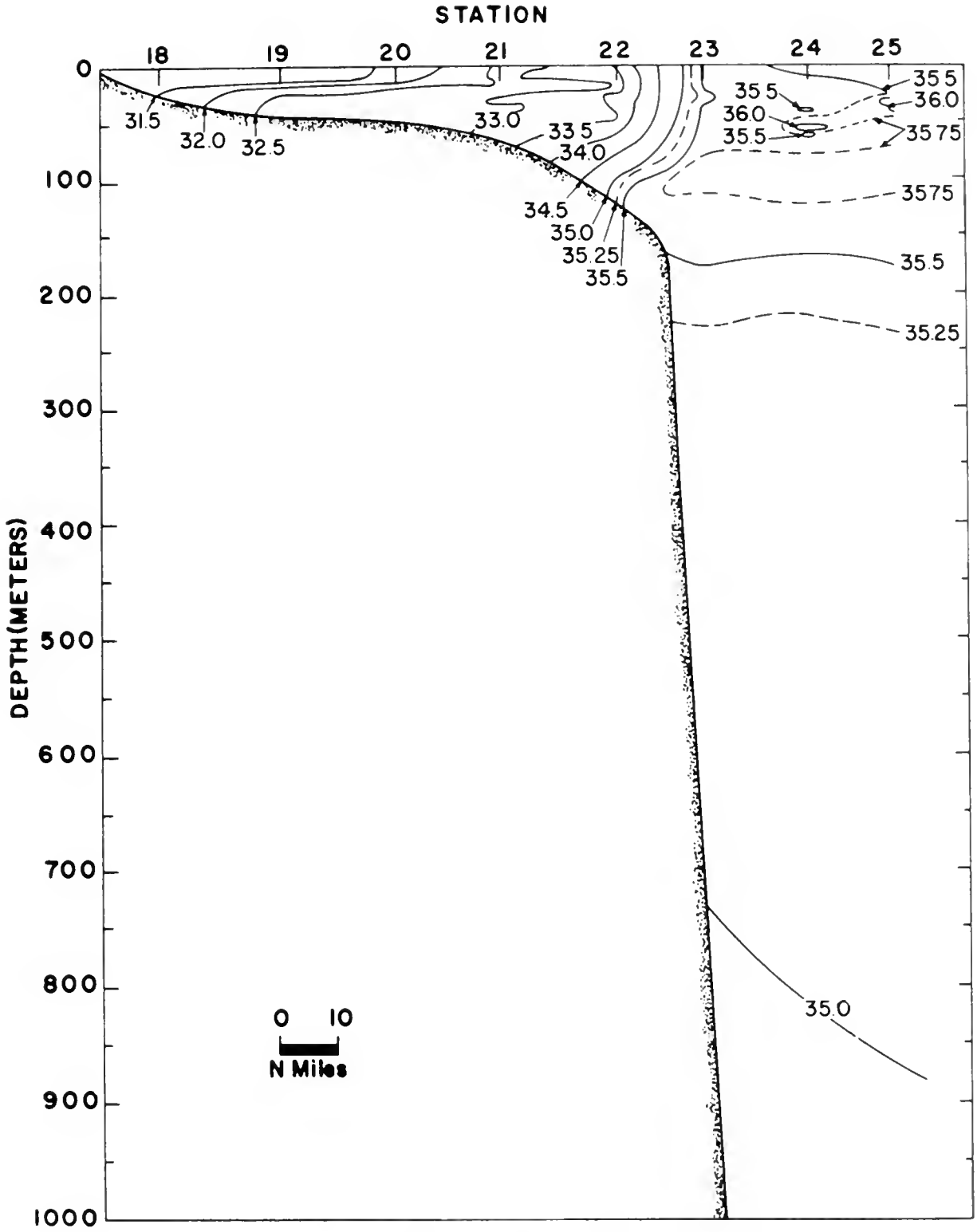

FIGURE 15.—Vertical distribution of salinity, section C, August 1974 (‰)

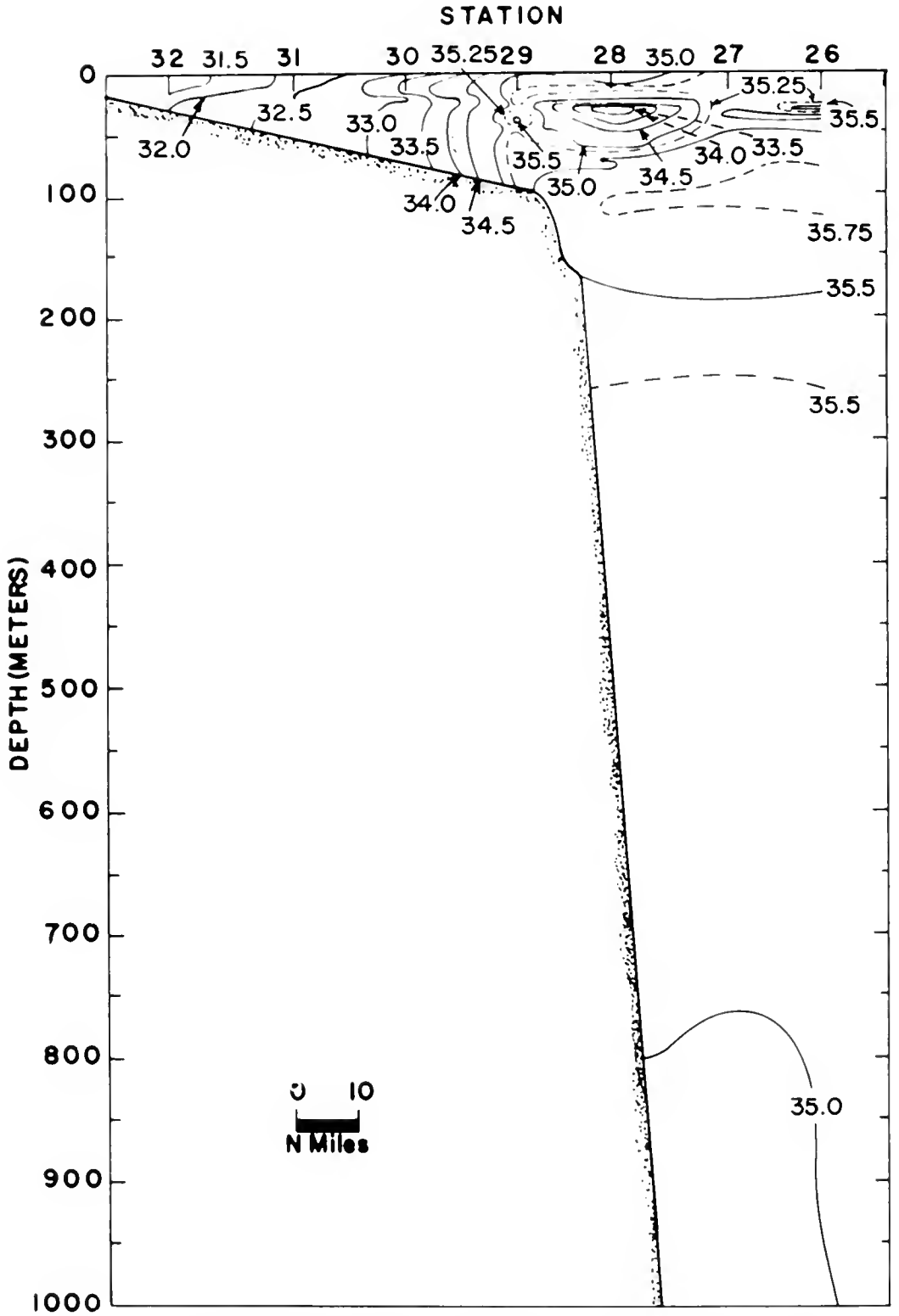

FIGURE 16.—Vertical distribution of salinity, section D, August 1974 (‰)

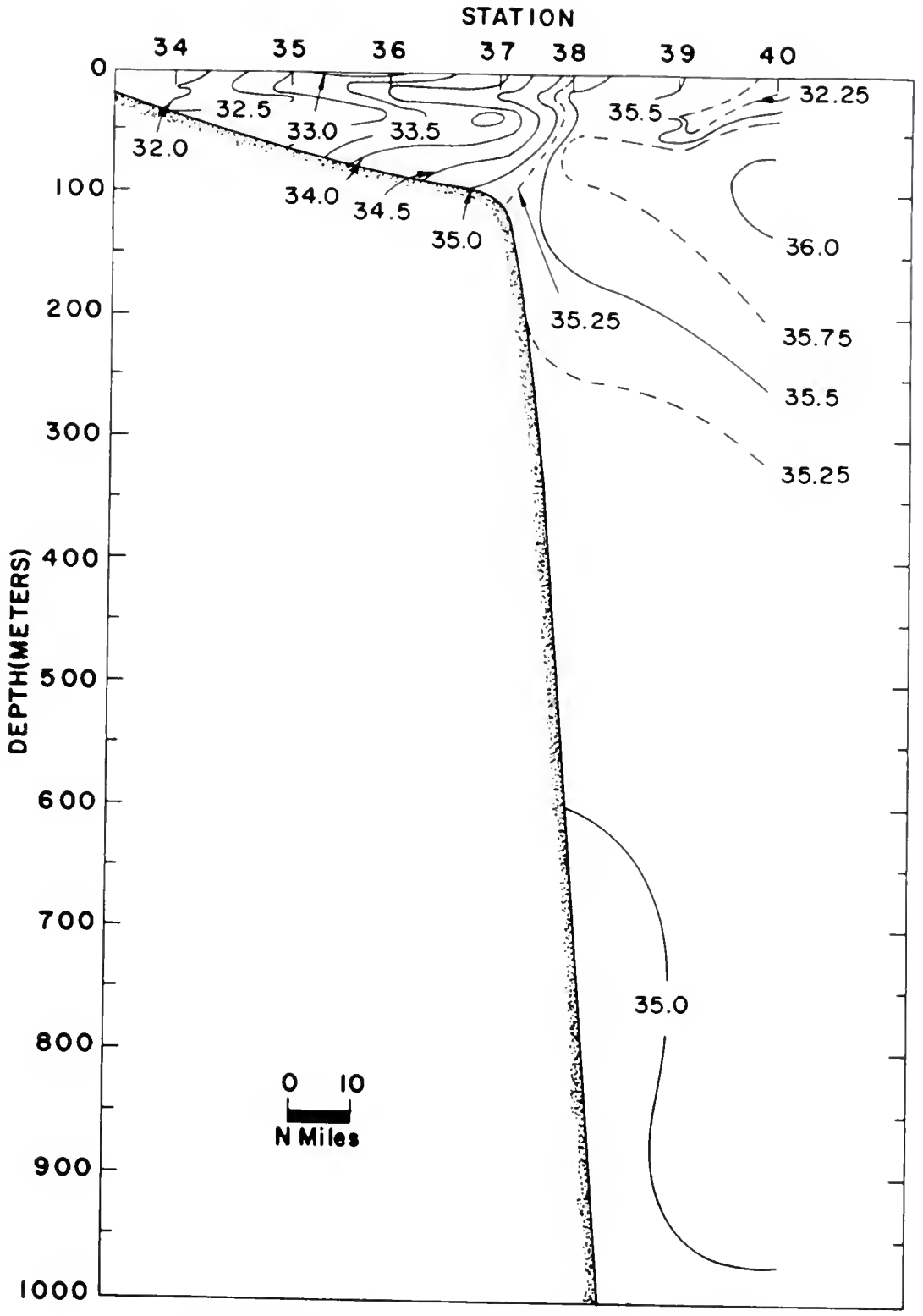

FIGURE 17.—Vertical distribution of salinity, section E, August 1974 (‰)

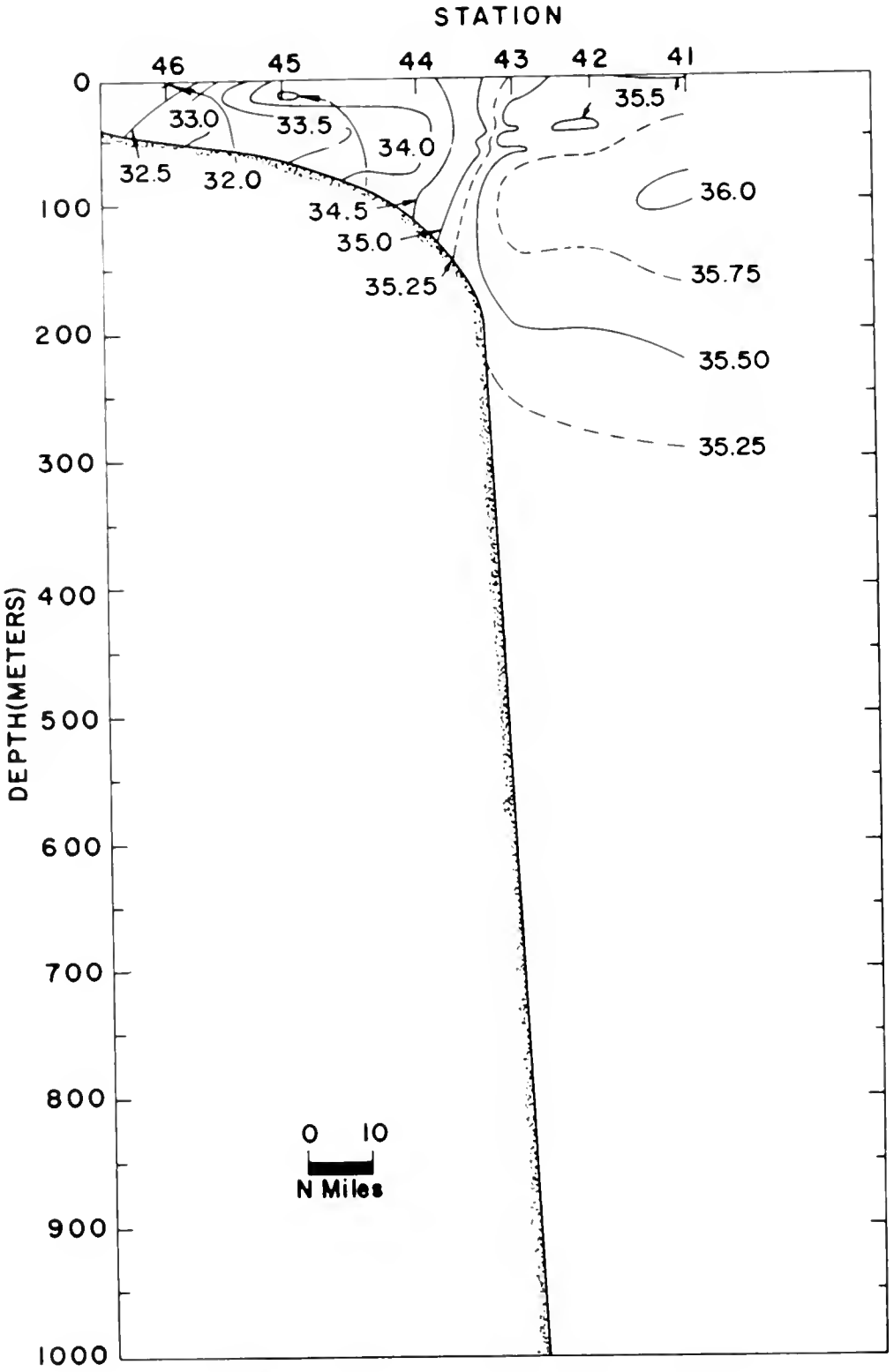

FIGURE 18.—Vertical distribution of salinity, section F, August 1974 (‰)

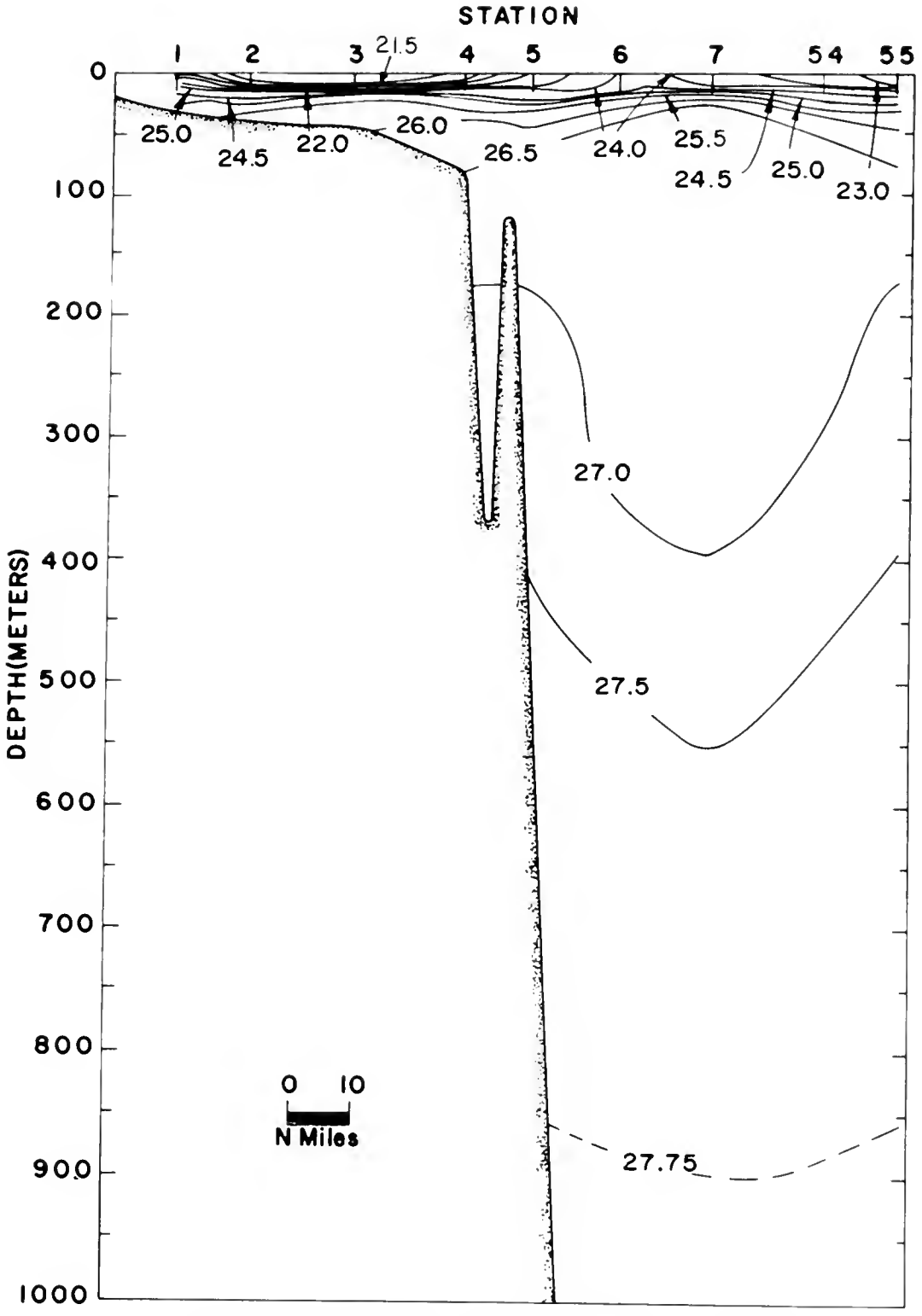

FIGURE 19.—Vertical distribution of sigma-t, section A, August 1974

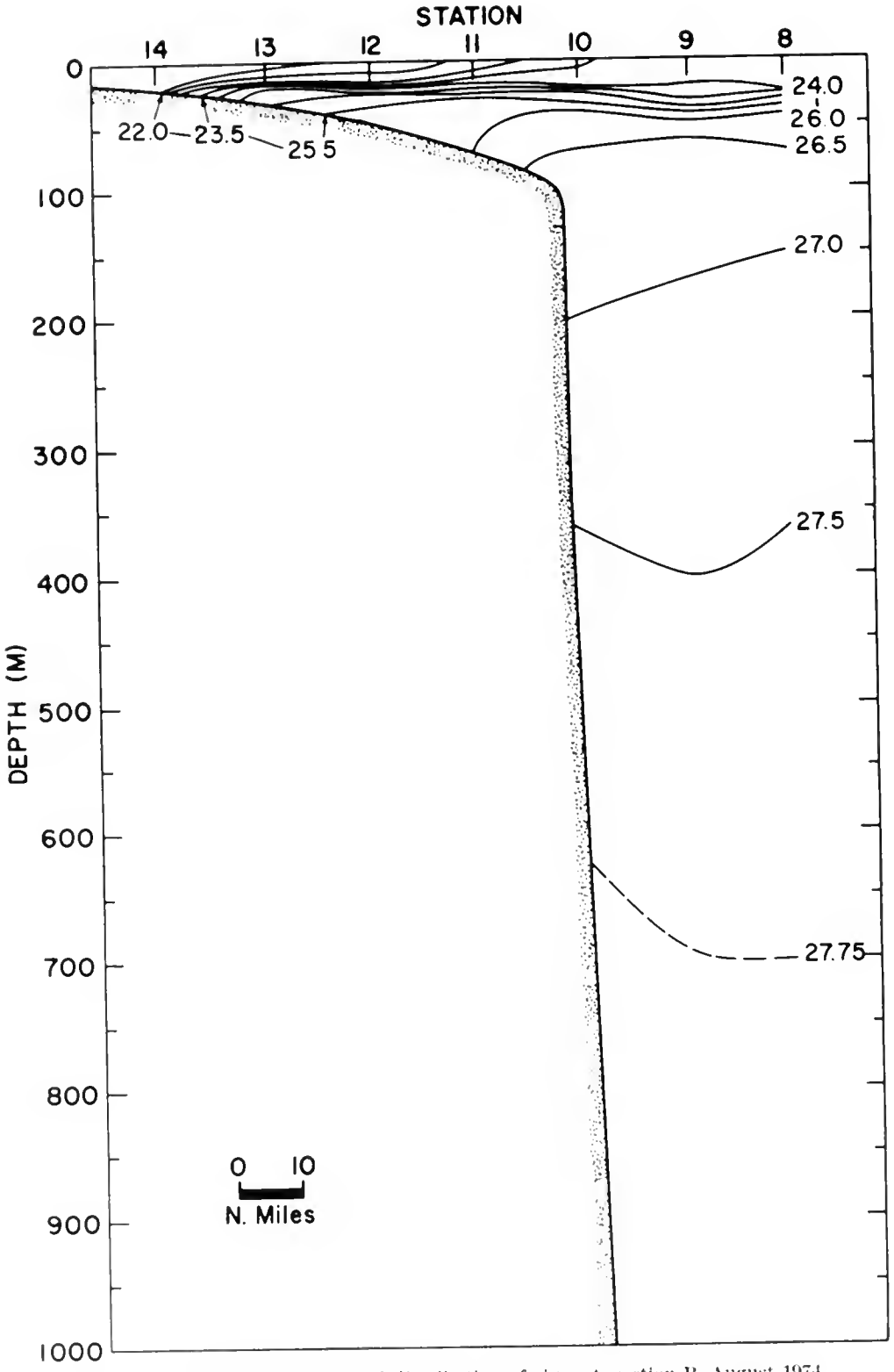

FIGURE 20.—Vertical distribution of sigma-t, section B, August 1974

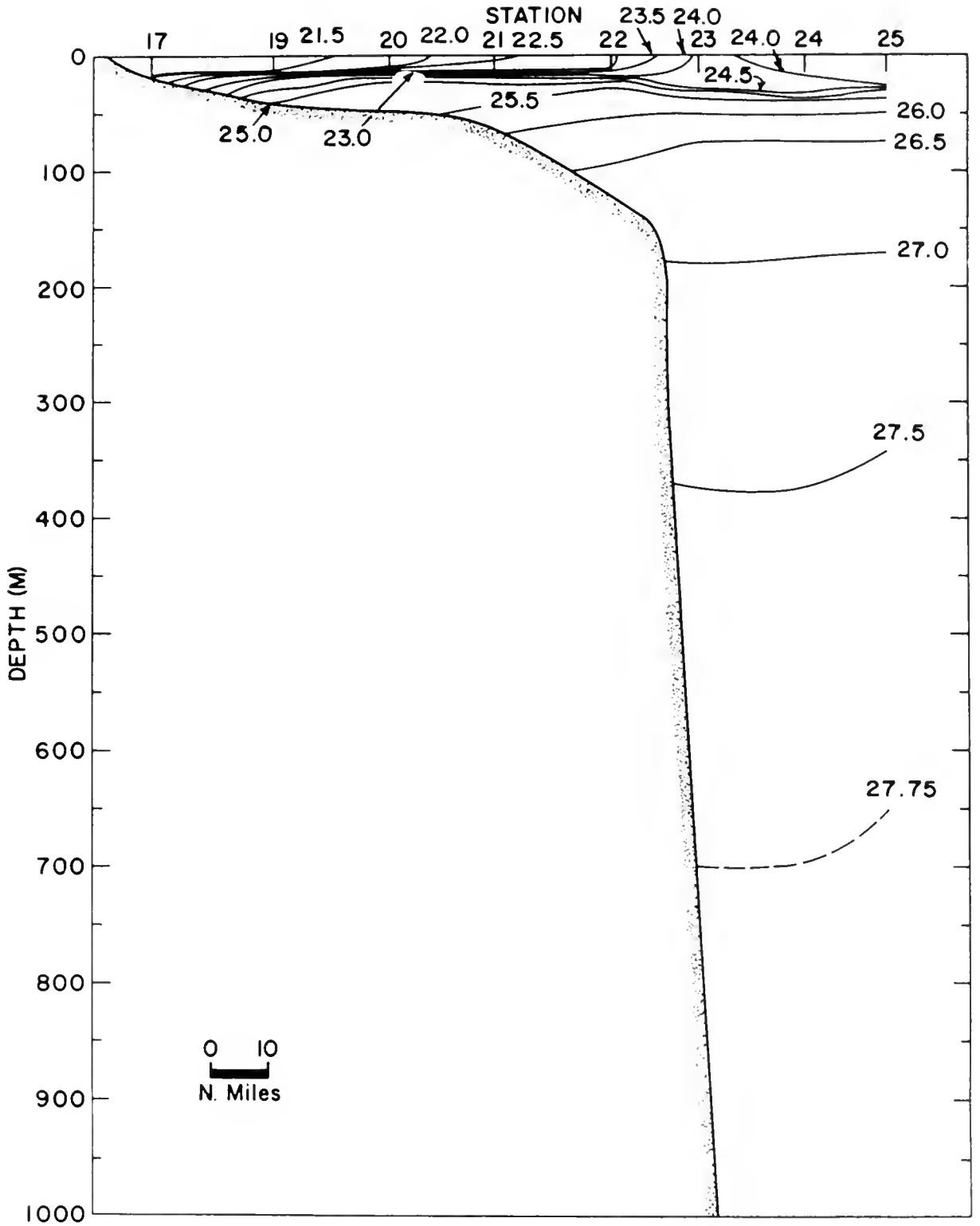

FIGURE 21.—Vertical distribution of sigma-t, section C, August 1974

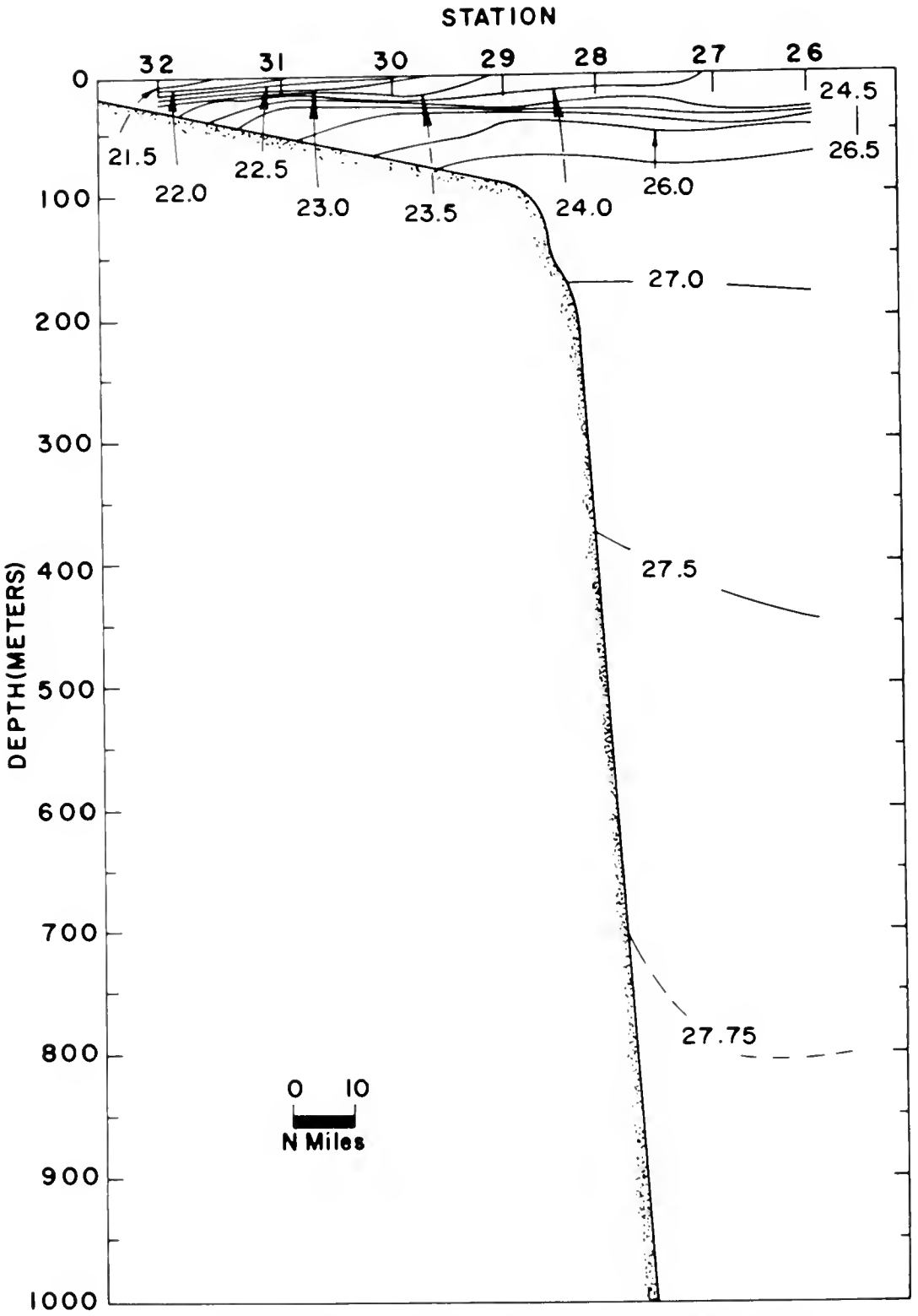

FIGURE 22.—Vertical distribution of sigma-t, section D, August 1974

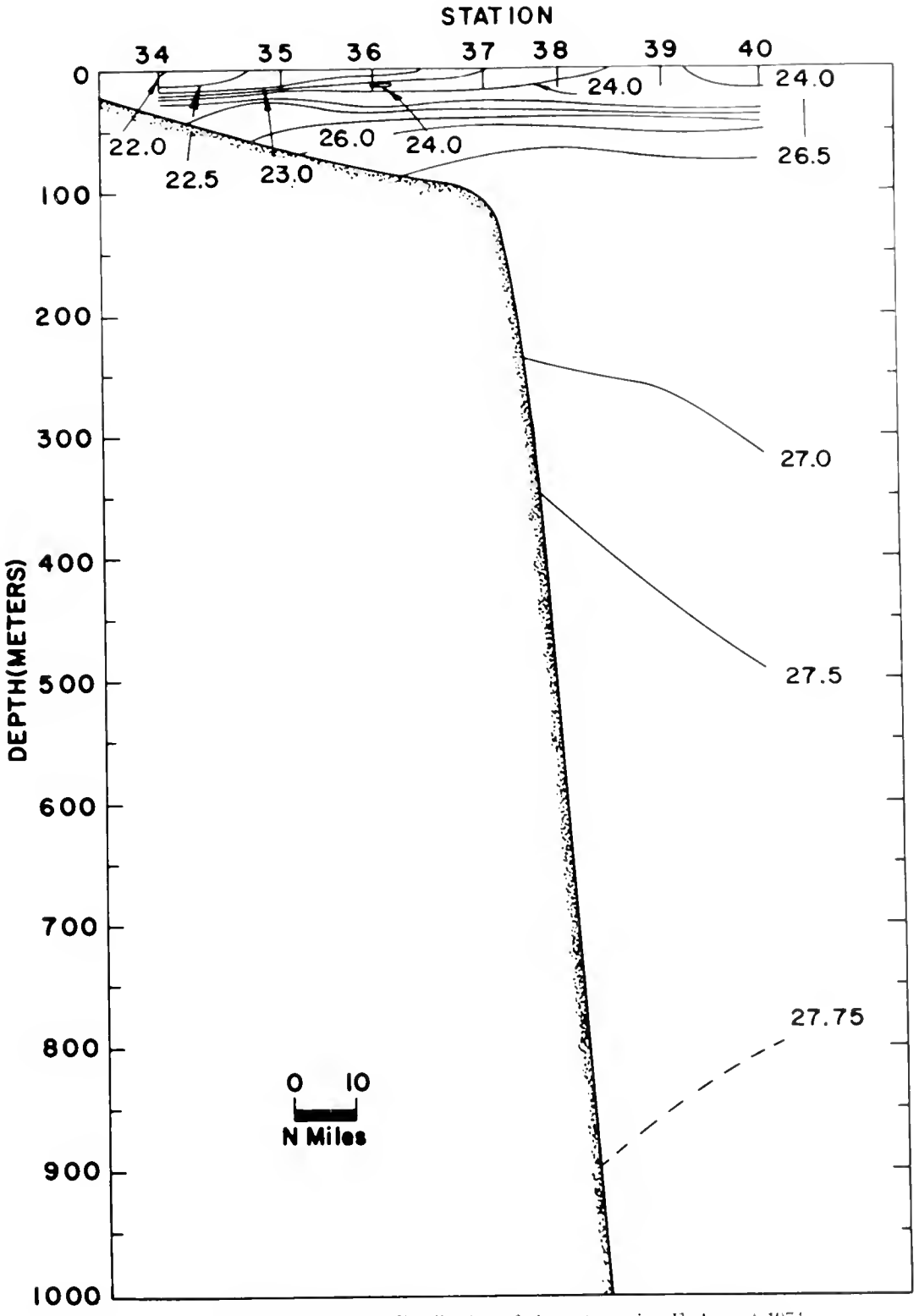

FIGURE 23.—Vertical distribution of sigma-t, section E, August 1974

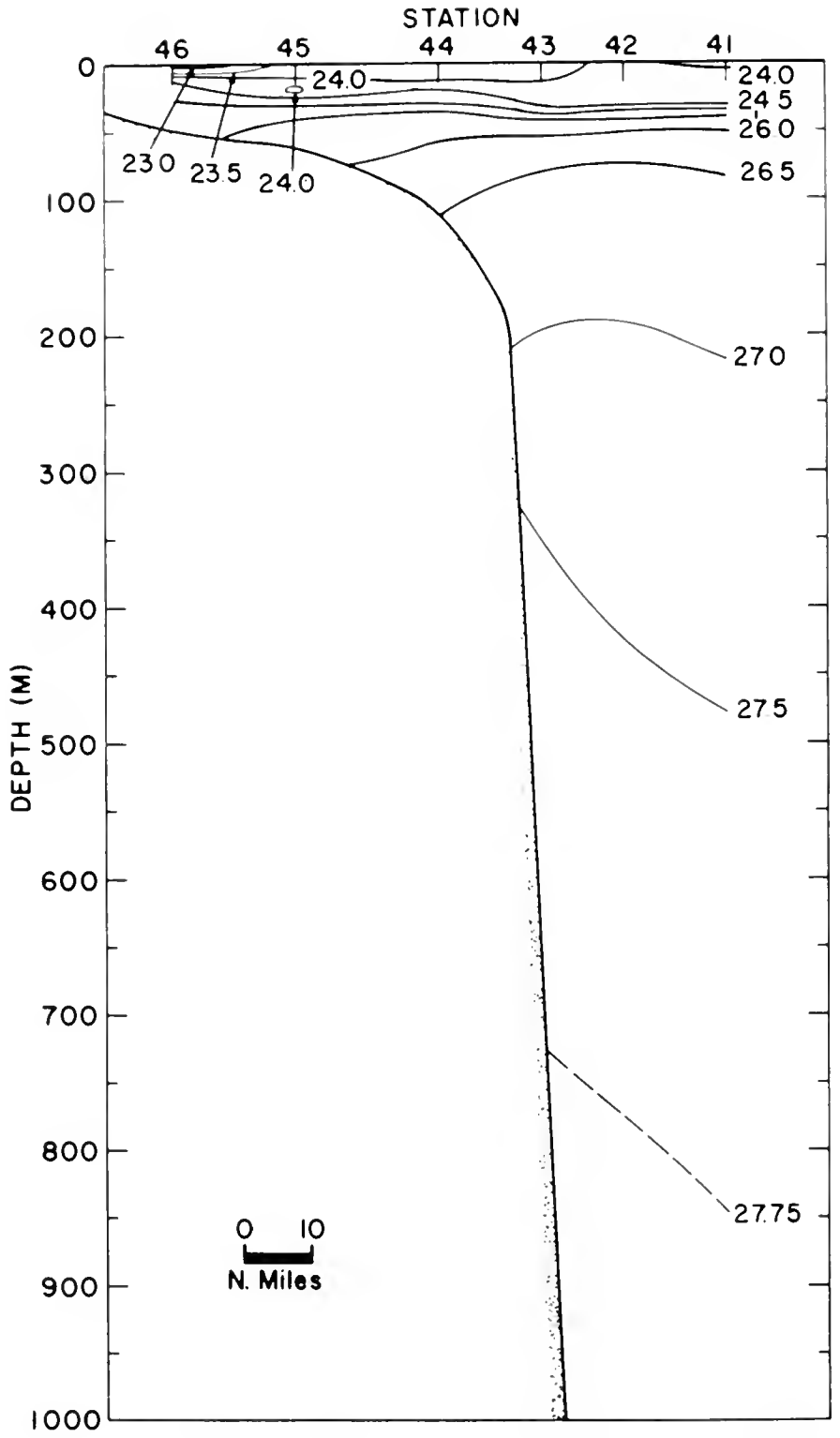

FIGURE 24.— Vertical distribution of sigma-t, section F, August 1971

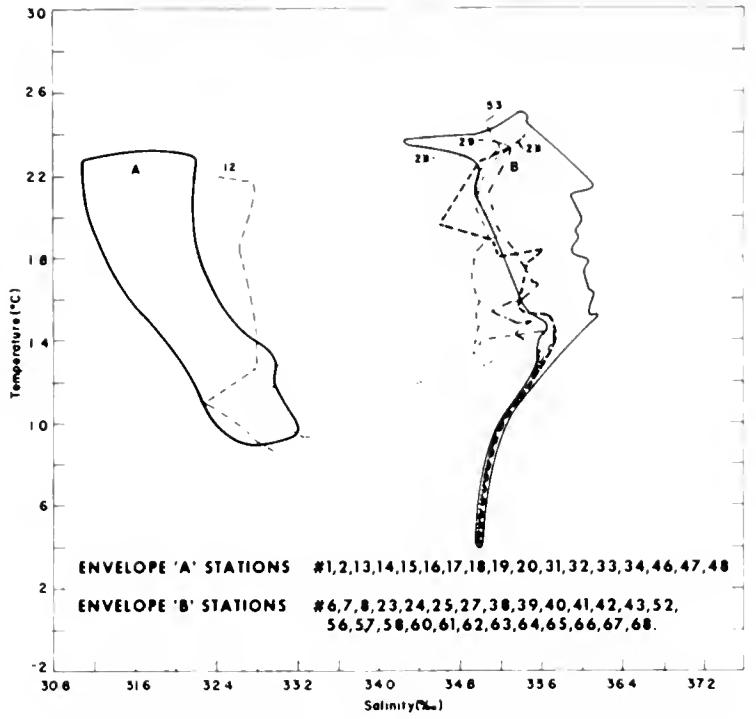

FIGURE 25a.—Temperature-salinity correlations, August 1974

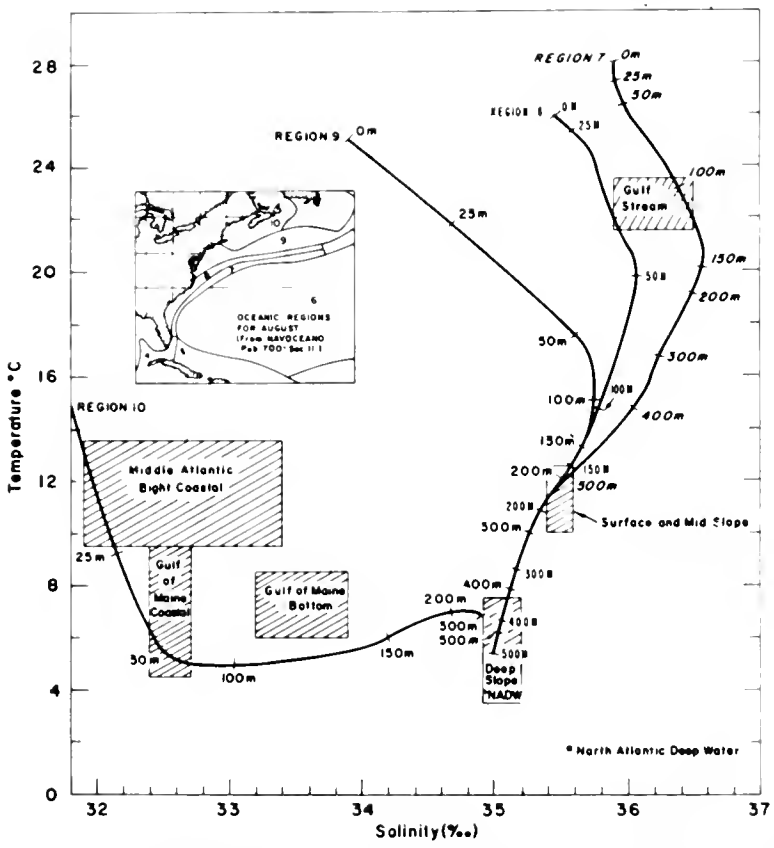

FIGURE 25b.—August temperature-salinity curves from NOO Pub 700, Sec. II, and combined spring and fall water mass ranges from Hayes (1975)

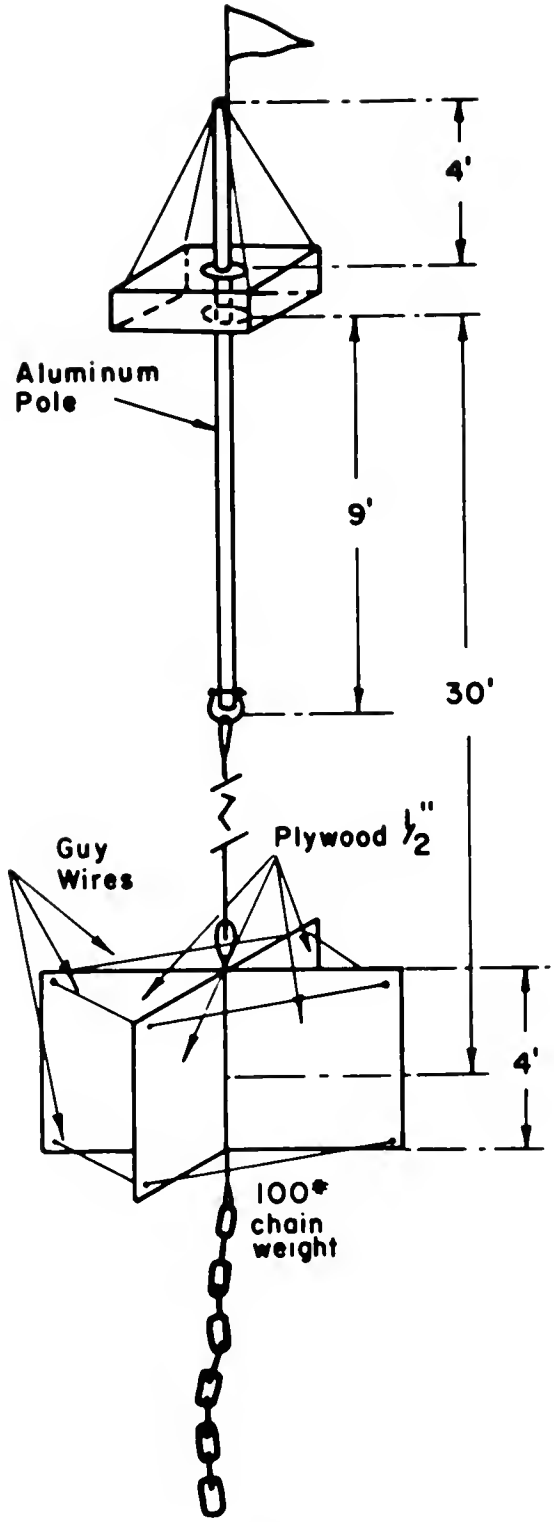

FIGURE 26.—Surface (30 foot depth) current drogue

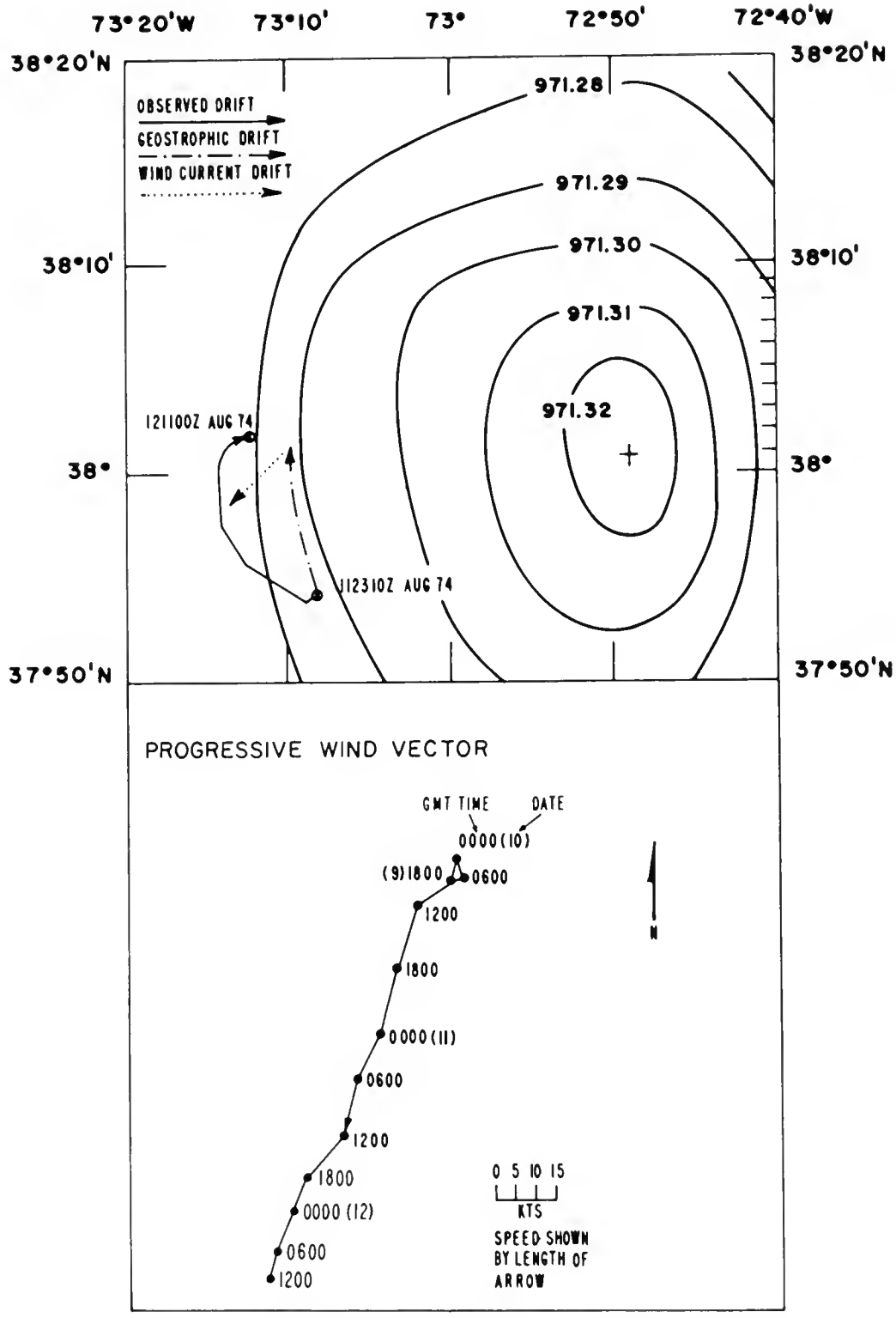

FIGURE 27.—Drogue movement 2310Z 11 August to 1100Z 12 August, 1974

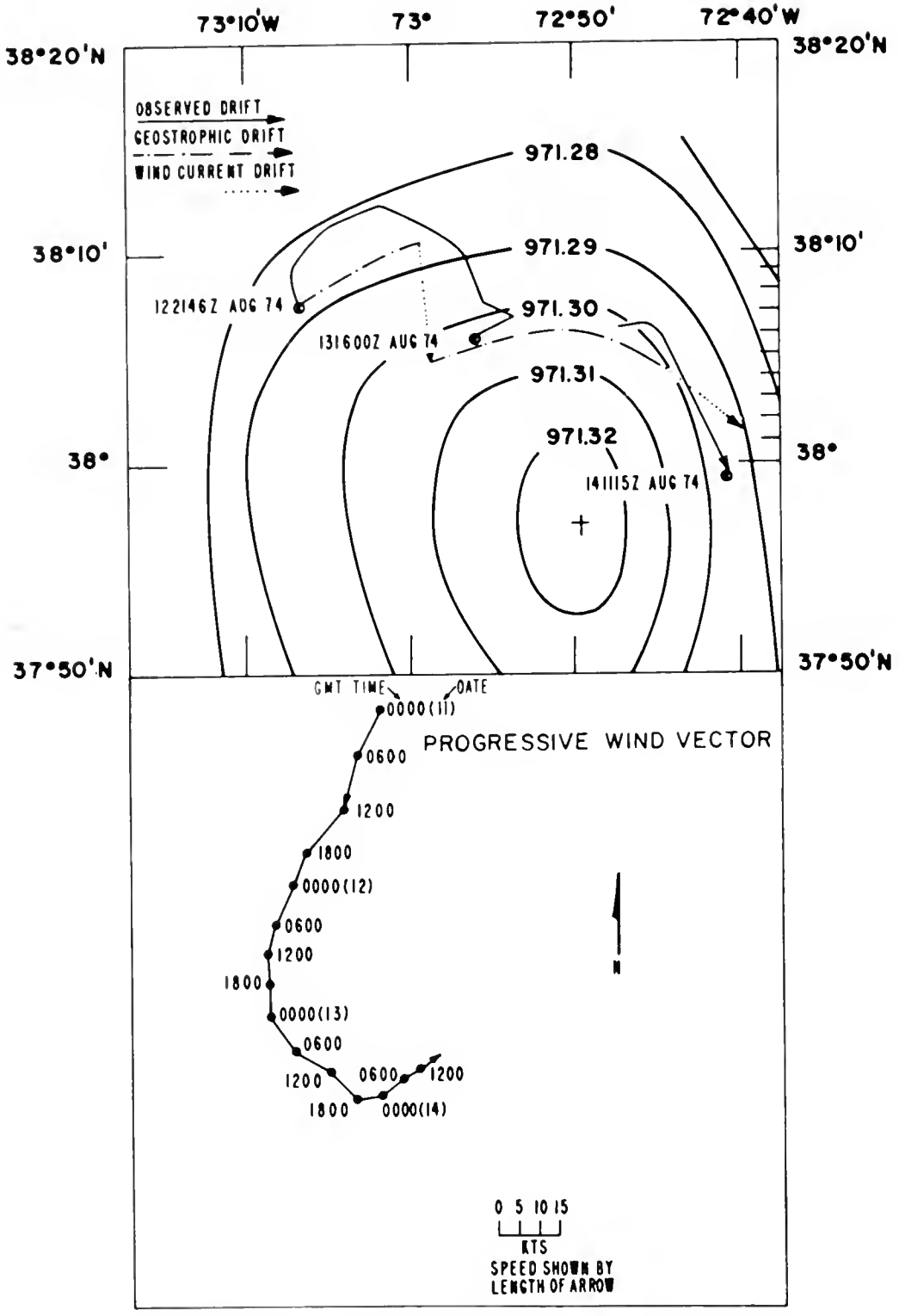

FIGURE 28. Drogue movement 2146Z 12 August to 1115Z 14 August 1974

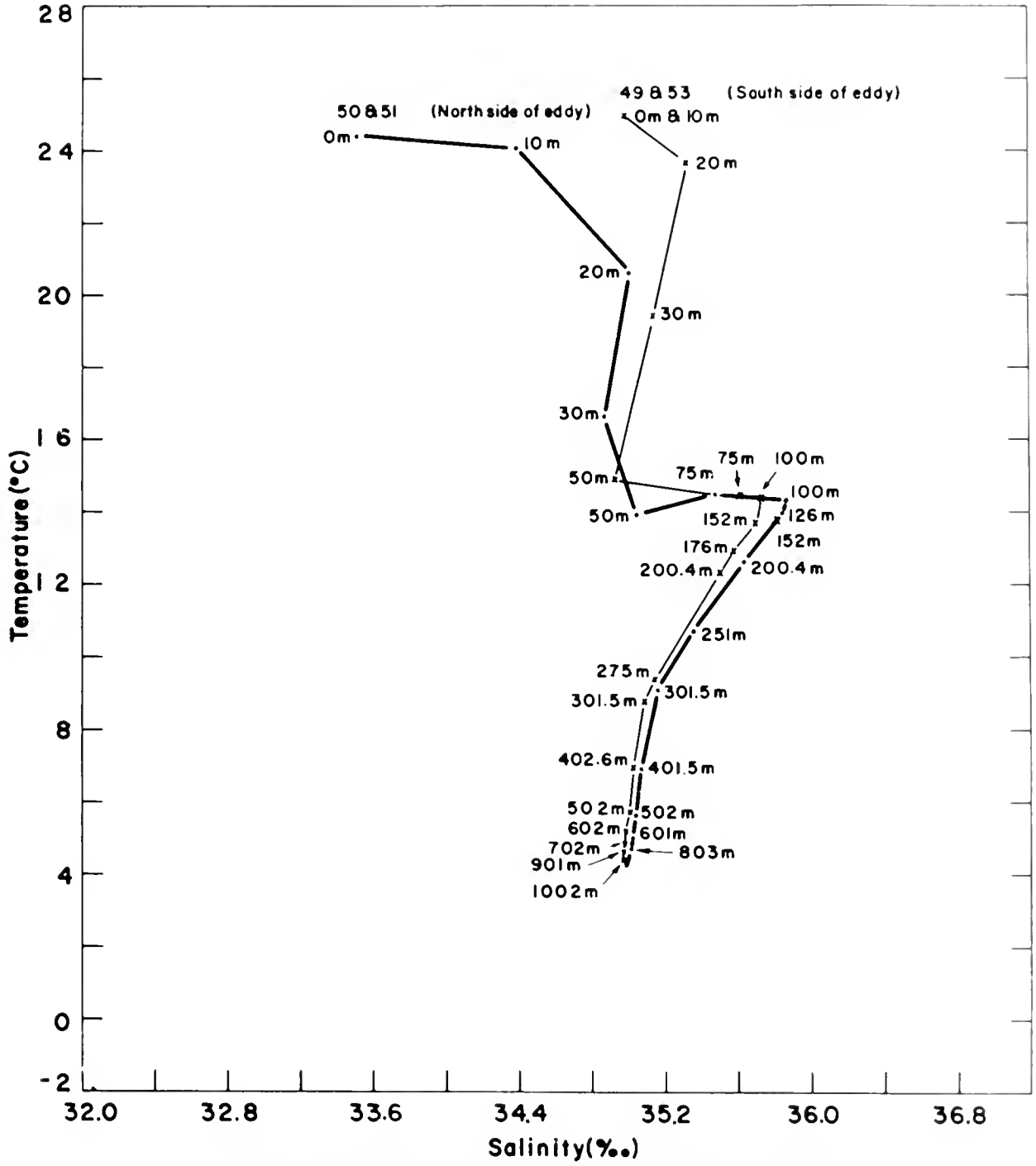

FIGURE 29.—Average temperature-salinity correlations, stations, 49, 50, 51, and 53

APPENDIX A

OCEANOGRAPHIC DATA

Cruises Listed

Observed and interpolated oceanographic data taken by USCGC EVERGREEN, 8–20 August 1974 on SAR Cruise 3–74, prepared from NODC Listing No. 318408.

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M–2, Processing Physical and Chemical Data from Oceanographic Stations. (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

Depth to Bottom ——— Corrected or uncorrected sounding in meters.
Max. Depth of Samples ——— Depth of deepest sample to nearest multiple of one hundred meters.

Wave observations

DIR. ——— Rounded to nearest multiple of 10 degrees.
HGT. ——— In increments of ½ m. Sum of 5 meters plus increments of ½ m if 50 is added to direction.
PER. ——— If numerals 2 through 9 are entered, period in seconds is twice the numeric entry of 2X (numeric entry) + 1. For other entries see WMO Code 3155.
SEA ——— Sea state according to WMO Code 3700.
Weather Code ——— If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.

Cloud Code
Type ——— Cloud type according to WMO Code 0500.
Amount ——— Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated. (WMO Code 2700)

Water
Color Code ——— Color according to Forel-Ule scale.
Trans. ——— Transparency in whole meters as determined by Secchi disc.

Wind
Dir. ——— Rounded to nearest multiple of 10 degrees.
Speed or Force ——— If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.

Barometer ---------- Barometric pressure given in 10, units and tenths of millibars.

Air Temp. °C ---------- Air temperature to tenths of a degree centigrade.

Vis. Code ---------- Visibility according to WMO Code 4300.

No. obs. depths ---------- Number of observed levels associated with the station.

Messenger time ---------- Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.

Card type ---------- OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.

Depth (m) ---------- Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.

T°C ---------- Temperature to hundredths of a degree Centigrade.

S °/₀₀ ---------- Salinity in parts-per-thousand.

SIGMA-T ---------- Entered to hundredths.

Specific-volume ---------- Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.

$\Sigma\Delta D$ Dyn. M. x 10^3 ---------- Multiply entry by 10^{-3} to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.

Sound Velocity ---------- Sound velocity according to Wilson's formula entered to tenths of a meter per second.

O_2 ml/l ---------- Dissolved oxygen in milliliters per liter entered to hundredths.

PO_4–P ug-at/l ---------- Inorganic phosphate in microgram-atoms per liter entered to hundredths.

Total-P ug-at/l ---------- Total phosphorus in microgram-atoms per liter entered to hundredths.

NO_2–N ug-at/l ---------- Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.

NO_3–N ug-at/l ---------- Nitrite-nitrogen in microgram-atoms per liter entered to tenths.

SiO_4–Si ug-at/l ---------- Silicate-silicon in microgram-atoms per liter entered to whole units.

CHL-A ---------- Chlorophyll-A (total pigment) in milligrams per cubic meter entered to hundredths.

NODC STATION DATA

ARCHIVE LISTING

REFID 31 8408 YEAR 1974 BOTOP 00029 AIR TEMP 23.1 DIR HGT PER WIND-DIR 20 INST STD RECORDER TEN SQ 1209
CONSEC 0001 MONTH 08 SHIP EV WET BULB 20.3 20 0 2 WIND-SPD 08 TRACE DIR 0 5 SQUARE 3
LAT 38 56.1N DAY 08 DATA USE 1 BAROMETR 1022.9 SEA WIND-FOR DURATION 00.1 2 SQUARE 84
LONG 074 26.3W HOUR 19.8 AREA 05 CLOUD T/A CL/TR WEATHER A2 ORIG 374 001 13 1 SQUARE 84

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	SYNOPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	21.28	31.68	21.92	00.000	1521.7							
19.8	OBS	00000	21.28	31.68	21.92		1521.7							
	OBS	00001	19.54	31.85	22.50		1517.2							
	OBS	00003	18.73	31.92	22.75		1515.0							
	OBS	00005	16.25	31.94	23.36		1507.7							
	OBS	00007	15.04	32.13	23.78		1504.1							
	OBS	00009	14.86	32.17	23.84		1503.6							
	STD	00010	14.75	32.12	23.83	00.050	1503.2							
	OBS	00011	14.19	32.12	23.95		1501.4							
	OBS	00013	12.85	32.44	24.46		1497.4							
	OBS	00017	12.48	32.50	24.58		1496.3							
	STD	00020	12.35	32.62	24.70	00.087	1496.0							
	OBS	00020	12.33	32.67	24.74		1496.0							

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REFID 31 8408 YEAR 1974 BOTOP 00038 AIR TEMP 23.1 DIR HGT PER WIND-DIR 22 INST STD RECORDER TEN SQ 1209
CONSEC 0002 MONTH 08 SHIP EV WET BULB 20.8 25 1 2 WIND-SPD 15 TRACE DIR 0 5 SQUARE 3
LAT 38 48.7N DAY 08 DATA USE 1 BAROMETR 1022.7 SEA WIND-FOR DURATION 00.1 2 SQUARE 84
LONG 074 13.0W HOUR 22.1 AREA 05 CLOUD T/A CL/TR WEATHER A2 ORIG 374 002 1 SQUARE 84

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	SYNOPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	22.99	31.49	21.30	00.000	1526.0							
22.1	OBS	00000	22.99	31.49	21.30		1526.0							
	OBS	00009	22.88	31.50	21.34		1525.9							
	STD	00010	22.36	31.50	21.49	00.064	1524.5							
	OBS	00011	20.80	31.49	21.90		1520.4							
	OBS	00015	15.65	31.98	23.48		1506.6							
	OBS	00017	13.86	32.66	24.43		1501.1							
	OBS	00019	13.07	32.49	24.46		1498.3							
	STD	00020	12.75	32.51	24.54	00.113	1497.2							
	OBS	00022	11.90	32.56	24.74		1494.4							
	OBS	00024	11.38	32.59	24.85		1492.7							
	OBS	00026	10.53	32.27	24.76 •		1489.3							
	OBS	00028	09.55	32.91	25.42		1486.5							
	STD	00030	09.32	33.02	25.54	00.142	1485.8							
	OBS	00030	09.27	33.05	25.57		1485.7							
	OBS	00032	09.25	33.11	25.62		1485.7							

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REFID 31 8408 YEAR 1974 BOTOP 00042 AIR TEMP 24.4 DIR HGT PER WIND-DIR 21 INST STD RECORDER TEN SQ 1209
CONSEC 0003 MONTH 08 SHIP EV WET BULB 21.5 29 1 2 WIND-SPD 12 TRACE DIP 0 5 SQUARE 3
LAT 38 40.1N DAY 09 DATA USE 1 BAROMETR 1022.6 SEA WIND-FOR DURATION 00.1 2 SQUARE 82
LONG 073 54.0W HOUR 00.4 AREA 05 CLOUD T/A CL/TR WEATHER A2 ORIG 374 003 1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	OYNOPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	23.35	31.62	21.30	00.000	1527.0							
00.4	OBS	00000	23.35	31.62	21.30		1527.0							
	STD	00010	23.31	31.60	21.30	00.065	1527.1							
	OBS	00011	23.31	31.60	21.30		1527.1							
	OBS	00013	20.81	32.40	22.59		1521.5							
	OBS	00019	16.47	33.25	24.32		1510.1							
	STD	00020	14.09	33.32	24.89	00.113	1502.7							
	OBS	00020	12.32	33.33	25.25		1496.8							
	OBS	00024	08.66	32.86	25.52		1483.1							
	OBS	00028	08.34	33.15	25.79		1482.3							
	STD	00030	08.19	33.23	25.88	00.139	1481.8							
	OBS	00030	08.15	33.25	25.90		1481.7							
	OBS	00034	08.09	33.28	25.93		1481.6							
	OBS	00040	08.09	33.26	25.92		1481.7							

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REFID 31 8408	YEAR 1974	BDTDP 00070	AIR TEMP 23.8	DIR HGT PER	WIND-DIR 25	INST STD RECORDER	TEN SQ 1209
CONSEC 0004	MONTH 08	SHIP EV	WET BULB 20.6	25 0 2	WIND-SPD 10	TRACE DIR 0	5 SQUARE 3
LAT 38 30.0N	DAY 09	DATA USE 1	BAROMETR 1022.8	SEA	WIND-FDR	DURATION 00.1	2 SQUARE 82
LONG 073 34.4W	HOUR 02.9	AREA 05	CLOUD T/A	CL/TR	WEATHER X2	DRIG 374 004	1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.17	32.57	21.78	00.000	1530.1							
02.9	OBS	00000	24.17	32.57	21.76		1530.1							
	OBS	00007	24.28	32.93	22.02		1530.9							
	OBS	00009	24.26	33.64	22.56		1531.7							
	STD	00010	24.12	33.93	22.82	00.055	1531.7							
	OBS	00013	23.30	34.83	23.74		1530.7							
	OBS	00016	21.88	35.09	24.34		1527.5							
	STD	00020	19.16	34.81	24.86	00.096	1519.9							
	OBS	00020	18.80	34.79	24.93		1518.9							
	OBS	00024	17.69	34.89	25.28		1515.9							
	OBS	00028	16.12	34.41	25.29		1510.6							
	STD	00030	14.00	34.07	25.49	00.124	1503.5							
	OBS	00030	14.00	34.07	25.49		1503.5							
	OBS	00031	12.31	34.12	25.87		1497.9							
	OBS	00033	11.97	33.97	25.82 *		1496.6							
	OBS	00035	11.60	34.02	25.92		1495.4							
	OBS	00037	11.26	33.92	25.91		1494.1							
	OBS	00039	10.33	33.72	25.92		1490.6							
	OBS	00041	09.70	33.78	26.07		1488.4							
	STD	00050	09.63	33.79	26.09	00.169	1488.3							
	OBS	00050	09.62	33.79	26.09		1488.3							
	OBS	00054	09.52	33.79	26.11		1488.0							
	OBS	00059	09.56	33.85	26.15		1488.3							

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REFID 31 8408	YEAR 1974	BDTDP 00402	AIR TEMP 23.5	DIR HGT PER	WIND-DIR 13	INST STD RECORDER	TEN SQ 1209
CONSEC 0005	MONTH 08	SHIP EV	WET BULB 21.3	00 0 X	WIND-SPD 06	TRACE DIR 0	5 SQUARE 3
LAT 38 25.7N	DAY 09	DATA USE 1	BAROMETR 1022.7	SEA	WIND-FDR	DURATION 00.4	2 SQUARE 82
LONG 073 20.9W	HOUR 04.9	AREA 05	CLOUD T/A	CL/TR	WEATHER X2	DRIG 374 005	1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.71	34.48	23.06	00.000	1533.6							
04.9	OBS	00000	24.71	34.48	23.06		1533.6							
	OBS	00001	24.71	34.47	23.05		1533.6							
	OBS	00005	24.82	34.71	23.20		1534.2							
	STD	00010	24.53	34.90	23.43	00.046	1533.8							
	OBS	00011	24.39	34.97	23.52		1533.5							
	OBS	00013	24.12	35.09	23.69		1533.0							
	OBS	00014	23.13	35.19	24.06		1530.8							
	OBS	00018	22.99	35.44	24.29		1530.8							
	STD	00020	22.68	35.26	24.24 *	00.087	1529.8							
	OBS	00022	21.77	35.05	24.34		1527.3							
	OBS	00024	20.73	35.00	24.59		1524.5							
	STD	00030	16.76	35.07	25.64	00.118	1513.4							
	OBS	00030	16.76	35.07	25.64		1513.4							
	OBS	00031	16.90	35.07	25.61 *		1513.9							
	OBS	00037	16.18	34.95	25.69		1511.6							
	OBS	00039	15.54	34.92	25.81		1509.6							
	OBS	00044	15.00	34.99	25.98		1508.1							
	OBS	00048	14.50	34.79	25.94 *		1506.3							
	STD	00050	14.04	34.74	26.00	00.162	1504.8							
	OBS	00052	13.53	34.72	26.09		1503.1							
	OBS	00058	13.75	34.96	26.23		1504.3							
	OBS	00065	13.77	35.28	26.47		1504.8							
	OBS	00067	13.91	35.21	26.39 *		1505.2							
	OBS	00069	13.50	35.16	26.43		1503.9							
	OBS	00072	13.53	35.37	26.59		1504.3							
	OBS	00074	14.25	35.57	26.59		1506.9							
	STD	00075	14.25	35.55	26.57	00.206	1506.9							
	OBS	00076	14.22	35.44	26.50 *		1506.7							
	OBS	00078	14.01	35.50	26.59		1506.1							
	STD	00100	14.01	35.71	26.76	00.241	1506.7							
	OBS	00101	14.00	35.72	26.76		1506.7							
	STD	00125	13.68	35.72	26.83	00.273	1506.1							
	OBS	00125	13.68	35.72	26.83		1506.1							
	STD	00150	13.24	35.66	26.87	00.304	1504.9							
	OBS	00153	13.14	35.65	26.89		1504.7							
	OBS	00179	12.07	35.54	27.01		1501.3							
	STD	00200	11.40	35.45	27.07	00.361	1499.2							
	OBS	00200	11.39	35.45	27.07		1499.2							
	OBS	00228	10.24	35.30	27.16		1495.4							
	STD	00250	09.52	35.22	27.22	00.410	1493.0							
	OBS	00252	09.44	35.21	27.23		1492.7							
	OBS	00276	08.78	35.11	27.26		1490.6							
	STD	00300	08.24	35.10	27.34	00.453	1488.9							
	OBS	00301	08.21	35.10	27.34		1488.8							
	OBS	00338	07.31	35.11	27.48		1486.0							
	OBS	00340	07.31	35.13	27.50		1486.0							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BOTOP 01830	AIR TEMP 22.6	DIR HGT PER	WIND-DIR 08	INST STO RECORDER	TEN SQ 1209
CONSEC 0006	MONTH 08	SHIP EV	WET BULB 21.7	24 0 2	WIND-SPD 08	TRACE DIR 0	5 SQUARE 3
LAT 38 16.4N	DAY 09	DATA USE 1	BAROMETR 1021.3	SEA	WIND-FOR	DURATION 00.9	2 SQUARE 82
LONG 073 06.4W	HOUR 07.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X2	ORIG 374 006	1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND YEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STO	00000	23.99	35.56	24.09	00.000	1533.0							
07.5	OBS	00000	23.89	35.56	24.09		1533.0							
	STO	00010	23.96	35.55	24.09	00.038	1533.1							
	OBS	00011	23.96	35.55	24.09		1533.1							
	OBS	00013	23.60	35.48	24.14		1532.2							
	OBS	00015	22.78	35.32	24.26		1530.0							
	OBS	00016	20.16	34.92	24.68		1522.7							
	STO	00020	18.28	35.15	25.34	00.071	1517.6							
	OBS	00020	18.01	35.19	25.43		1517.1							
	OBS	00028	16.77	35.44	25.92		1513.8							
	STO	00030	16.65	35.39	25.91	00.095	1513.5							
	OBS	00030	16.65	35.39	25.91		1513.5							
	OBS	00033	17.12	35.98	26.25		1515.6							
	OBS	00037	16.36	36.03	26.47		1513.5							
	OBS	00046	15.97	36.04	26.57		1512.5							
	STO	00050	15.51	36.02	26.66	00.130	1511.1							
	OBS	00050	15.43	36.02	26.68		1510.8							
	STO	00075	15.08	36.10	26.82	00.163	1510.2							
	OBS	00080	15.04	36.11	26.84		1510.2							
	STO	00100	15.04	36.13	26.85	00.194	1510.5							
	OBS	00101	15.04	36.13	26.85		1510.6							
	STO	00125	15.11	36.15	26.85	00.223	1511.2							
	OBS	00125	15.11	36.15	26.85		1511.2							
	STO	00150	15.15	36.16	26.85	00.237	1511.7							
	OBS	00153	15.15	36.16	26.85		1511.8							
	OBS	00177	15.18	36.18	26.86		1512.3							
	STO	00200	15.18	36.18	26.86	00.320	1512.7							
	OBS	00200	15.18	36.18	26.86		1512.7							
	OBS	00226	15.18	36.18	26.86		1513.1							
	STO	00250	15.19	36.17	26.85	00.383	1513.5							
	OBS	00252	15.19	36.17	26.85		1513.6							
	OBS	00275	15.19	36.17	26.85		1513.9							
	STO	00300	14.74	36.01	26.83	00.449	1512.7							
	OBS	00301	14.69	36.00	26.83		1512.6							
	OBS	00329	13.19	35.70	26.91		1507.8							
	OBS	00338	12.36	35.55	26.96		1505.0							
	OBS	00348	12.08	35.51	26.99		1504.1							
	OBS	00352	11.75	35.44	27.00		1502.9							
	OBS	00357	11.43	35.44	27.06		1501.9							
	OBS	00370	10.72	35.30	27.08		1499.4							
	OBS	00385	10.00	35.23	27.15		1497.0							
	OBS	00393	09.64	35.20	27.19		1495.8							
	STO	00400	09.44	35.16	27.19	00.563	1495.1							
	OBS	00404	09.30	35.14	27.20		1494.6							
	OBS	00453	07.89	35.06	27.36		1490.0							
	OBS	00471	07.38	35.07	27.44		1488.4							
	OBS	00483	07.06	35.05	27.47		1487.3							
	STO	00500	06.67	35.03	27.51	00.645	1486.0							
	OBS	00500	06.67	35.03	27.51		1486.0							
	OBS	00552	06.06	35.04	27.60		1484.5							
	STO	00600	05.50	35.01	27.64	00.705	1483.0							
	OBS	00601	05.49	35.01	27.65		1482.9							
	OBS	00653	05.15	35.01	27.69		1482.4							
	STO	00700	04.92	35.01	27.71	00.755	1482.2							
	OBS	00702	04.91	35.01	27.71		1482.2							
	OBS	00751	04.78	35.00	27.72		1482.3							
	STO	00800	04.60	34.99	27.73	00.802	1482.6							
	OBS	00801	04.60	34.99	27.73		1482.6							
	OBS	00850	04.56	35.00	27.75		1483.2							
	STO	00900	04.49	35.00	27.75	00.847	1483.8							
	OBS	00900	04.49	35.00	27.75		1483.8							
	OBS	00951	04.31	34.98	27.76		1483.9							
	STO	01000	04.28	34.98	27.76	00.892	1484.5							
	OBS	01000	04.28	34.98	27.76		1484.5							
	OBS	01095	04.12	33.00	27.79		1485.5							

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REFIO 31 8408	YEAR 1974	BDTOP 02560	AIR TEMP 25.0	DIR HGT PER	WIND-DIR 25	INST STD RECORDER	TEN SQ 1209
CONSEC 0007	MONTH 08	SHIP EV	WET BULB 23.0	24 0 2	WIND-SPD 08	TRACE DIR 0	5 SQUARE 3
LAT 38 09.5N	DAY 09	DATA USE 1	BAROMETR 1020.0	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 49.0W	HOUR 16.5	AREA 05	CLOUD T/A	CL/TR	WEATHER A1	ORIG 374 007 26	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SI33	PH
	STD	00000	24.57	35.53	23.89	00.000	1534.4							
16.5	OBS	00000	24.57	35.53	23.89		1534.4							
	STD	00010	24.25	35.49	23.96	00.040	1533.8							
	OBS	00011	24.21	35.49	23.97		1533.7							
	OBS	00013	23.40	35.35	24.10		1531.6							
	OBS	00015	20.84	35.33	24.81		1525.0							
	OBS	00016	18.39	35.75	25.77		1518.8							
	OBS	00018	18.13	35.94	25.98		1518.3							
	STD	00020	17.72	35.89	26.04	00.070	1517.1							
	OBS	00020	17.54	35.88	26.08		1516.5							
	OBS	00024	16.58	36.01	26.41		1513.9							
	OBS	00026	15.99	36.09	26.61		1512.2							
	STD	00030	15.81	36.07	26.63	00.087	1511.7							
	OBS	00030	15.81	36.07	26.63		1511.7							
	STD	00050	15.08	36.07	26.80	00.114	1509.8							
	OBS	00050	15.07	36.07	26.80		1509.8							
	STD	00075	15.02	36.10	26.83	00.145	1510.0							
	OBS	00078	15.02	36.10	26.83		1510.1							
	STD	00100	15.04	36.10	26.83	00.177	1510.5							
	OBS	00101	15.04	36.10	26.83		1510.5							
	STD	00125	15.06	36.12	26.84	00.208	1511.0							
	OBS	00125	15.06	36.12	26.84		1511.0							
	STD	00150	15.09	36.14	26.85	00.240	1511.5							
	OBS	00151	15.09	36.14	26.85		1511.6							
	OBS	00176	15.13	36.15	26.85		1512.1							
	STD	00200	15.15	36.16	26.85	00.303	1512.6							
	OBS	00200	15.15	36.16	26.85		1512.6							
	OBS	00226	15.18	36.17	26.85		1513.1							
	STD	00250	15.20	36.17	26.85	00.367	1513.6							
	OBS	00250	15.20	36.17	26.85		1513.6							
	OBS	00277	15.17	36.16	26.85		1513.9							
	STD	00300	15.16	36.15	26.84	00.432	1514.2							
	OBS	00301	15.16	36.15	26.84		1514.3							
	OBS	00346	15.16	36.16	26.85		1515.0							
	OBS	00352	14.82	36.01	26.85		1513.9							
	OBS	00365	14.24	35.91	26.86		1512.1							
	OBS	00374	13.76	35.83	26.90		1510.6							
	OBS	00378	13.22	35.76	26.95		1508.8							
	OBS	00385	13.20	35.75	26.95		1508.8							
	OBS	00397	12.19	35.58	27.02		1505.4							
	STD	00400	11.84	35.52	27.04	00.554	1504.1							
	OBS	00402	11.56	35.48	27.06		1503.2							
	OBS	00451	09.89	35.25	27.19		1497.7							
	OBS	00477	08.91	35.15	27.27		1494.4							
	STD	00500	08.17	35.10	27.34	00.652	1491.9							
	OBS	00503	08.06	35.09	27.36		1491.5							
	OBS	00552	06.91	35.06	27.50		1487.9							
	STD	00600	06.16	35.04	27.58	00.724	1485.7							
	OBS	00601	06.15	35.04	27.59		1485.6							
	OBS	00651	05.50	35.03	27.66		1483.8							
	STD	00700	05.11	35.02	27.70	00.778	1483.0							
	OBS	00700	05.11	35.02	27.70		1483.0							
	OBS	00750	04.92	35.01	27.71		1483.1							
	STD	00800	04.77	35.01	27.73	00.826	1483.3							
	OBS	00803	04.76	35.01	27.73		1483.3							
	OBS	00850	04.66	35.00	27.74		1483.6							
	STD	00900	04.53	35.00	27.75	00.872	1483.9							
	OBS	00902	04.52	35.00	27.75		1483.9							
	OBS	00953	04.38	34.99	27.76		1484.2							
	OBS	00958	04.35	34.98	27.75		1484.1							
	STD	01000	04.30	34.98	27.76	00.917	1484.6							
	OBS	01001	04.30	34.98	27.76		1484.7							
	OBS	01074	04.18	34.98	27.77		1485.4							
	OBS	01082	04.18	35.00	27.79		1485.5							

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N O D C   S T A T I O N   D A T A

REFID 31 8406	YEAR 1974	BOTDP 02706	AIR TEMP 25.0	DIR HGT PER	WIND-DIR 23	INST STD RECORDER	TEN SQ 1209
CONSEC 0006	MONTH 06	SHIP EV	WET BULB 23.3	13 1 2	WIND-SPD 10	TRACE DIR 0	5 SQUARE 3
LAT 38 31.9N	DAY 14	DATA USE 1	BAROMETR 1018.3	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 20.1W	HOUR 17.0	AREA 05	CLOUD T/4	CL/TR	WEATHER X1	ORIG 374 008 20	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.96	35.30	23.90	00.000	1532.7							
17.0	OBS	00000	23.96	35.30	23.90		1532.7							
	STD	00010	23.76	35.30	23.96	00.040	1532.3							
	OBS	00013	23.72	35.30	23.97		1532.3							
	STD	00020	23.69	35.31	23.99	00.079	1532.4							
	OBS	00020	23.69	35.31	23.99		1532.4							
	OBS	00024	23.67	35.31	23.99		1532.4							
	OBS	00028	22.63	35.12	24.15		1529.6							
	STD	00030	20.75	35.12	24.68	00.116	1524.6							
	OBS	00033	18.35	35.23	25.38		1518.3							
	OBS	00037	17.64	35.48	25.75		1516.6							
	OBS	00041	17.41	35.50	25.82		1516.0							
	OBS	00045	17.15	35.77	26.09		1515.7							
	OBS	00046	17.05	35.62	26.00 •		1515.2							
	STD	00050	16.06	35.44	26.09	00.168	1512.1							
	OBS	00050	15.85	35.43	26.13		1511.4							
	OBS	00052	15.16	35.45	26.30		1509.3							
	STD	00075	14.75	35.68	26.57	00.211	1508.6							
	OBS	00076	14.70	35.69	26.59		1508.5							
	STD	00100	13.83	35.74	26.81	00.246	1506.2							
	OBS	00101	13.80	35.74	26.82		1506.1							
	OBS	00116	13.45	35.71	26.87		1505.2							
	STD	00125	12.91	35.62	26.91	00.276	1503.4							
	OBS	00125	12.89	35.62	26.91		1503.3							
	STD	00150	11.84	35.46	27.00	00.305	1500.0							
	OBS	00151	11.81	35.46	27.00		1499.9							
	OBS	00153	11.78	35.46	27.01		1499.8							
	OBS	00176	10.83	35.37	27.11		1496.7							
	STD	00200	10.26	35.28	27.15	00.357	1495.0							
	OBS	00200	10.25	35.28	27.15		1494.9							
	OBS	00226	09.43	35.20	27.22		1492.3							
	STD	00250	08.88	35.13	27.25	00.404	1490.5							
	OBS	00252	08.82	35.12	27.26		1490.3							
	OBS	00275	08.32	35.10	27.32		1488.8							
	STD	00300	07.98	35.09	27.37	00.445	1487.9							
	OBS	00301	07.96	35.09	27.37		1487.8							
	OBS	00350	07.22	35.07	27.46		1485.8							
	STD	00400	06.26	35.04	27.57	00.513	1482.8							
	OBS	00400	06.25	35.04	27.57		1482.7							
	OBS	00451	05.73	35.03	27.63		1481.5							
	STD	00500	05.36	35.02	27.67	00.567	1480.7							
	OBS	00500	05.36	35.02	27.67		1480.7							
	OBS	00552	05.09	35.01	27.69		1480.5							
	STD	00600	04.91	35.00	27.71	00.615	1480.5							
	OBS	00601	04.91	35.00	27.71		1480.5							
	OBS	00655	04.71	35.00	27.73		1460.6							
	STD	00700	04.55	34.99	27.74	00.661	1480.7							
	OBS	00700	04.55	34.99	27.74		1480.7							
	OBS	00752	04.45	34.98	27.74		1481.1							
	STD	00800	04.39	34.98	27.75	00.705	1481.7							
	OBS	00801	04.39	34.98	27.75		1481.7							
	OBS	00850	04.33	34.97	27.75		1462.2							
	STD	00900	04.26	34.97	27.76	00.749	1482.8							
	OBS	00902	04.26	34.97	27.76		1482.8							
	OBS	00945	04.19	34.95	27.75		1483.2							
	OBS	00953	04.15	34.95	27.75		1483.2							
	STD	01000	04.13	34.96	27.76	00.794	1483.9							
	OBS	01000	04.13	34.96	27.76		1483.9							
	OBS	01088	04.03	34.95	27.76		1484.9							
	OBS	01093	04.03	34.95	27.76		1485.0							

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REFID 31 8408	YEAR 1974	BOTOP 02304	AIR TEMP 25.4	DIR HGT PER	WIND-DIR 23	INST STD RECORDER	TEM SQ 1209
CONSEC 0009	MONTH 08	SHIP EV	WET BULB 23.5	25 1 3	WIND-SPD 10	TRACE DIR 0	5 SQUARE 3
LAT 38 40.5N	DAY 14	DATA USE 1	BAROMETR 1017.4	SEA	WIND-FOR	DURATION 01.1	2 SQUARE 82
LONG 072 36.1W	HOUR 22.4	AREA 05	CLOUD T/A	CL/TR	WEATHER X4	ORIG 374 009 31	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.15	35.13	23.72	00.000	1532.9							
22.4	OBS	00000	24.15	35.13	23.72		1532.9							
	STD	00010	24.03	35.29	23.87	00.041	1533.0							
	OBS	00011	24.01	35.30	23.89		1533.0							
	STD	00020	23.79	35.37	24.00	00.081	1532.7							
	OBS	00020	23.78	35.37	24.01		1532.7							
	STD	00030	23.67	35.38	24.05	00.120	1532.6							
	OBS	00030	23.67	35.38	24.05		1532.6							
	OBS	00031	21.72	34.51	23.94 *		1526.7							
	OBS	00033	19.61	34.26	24.32		1520.7							
	OBS	00035	18.59	34.28	24.59		1517.9							
	OBS	00037	17.99	34.55	24.95		1516.5							
	OBS	00039	16.43	34.30	25.13		1511.6							
	OBS	00041	14.58	34.58	25.76		1506.2							
	OBS	00043	14.23	34.48	25.76		1505.0							
	OBS	00046	13.98	34.69	25.97		1504.5							
	OBS	00048	14.21	34.80	26.01		1505.4							
	STD	00050	14.22	35.14	26.27	00.177	1505.9							
	OBS	00050	14.22	34.60 P	25.85Q*									
	OBS	00054	15.13	35.60	26.42		1509.4							
	OBS	00056	15.20	35.47	26.31 *		1509.5							
	OBS	00058	14.93	35.60	26.47		1508.9							
	STD	00075	14.72	35.76	26.63	00.217	1508.7							
	OBS	00076	14.70	35.77	26.65		1508.6							
	OBS	00084	14.81	35.82	26.66		1509.2							
	STD	00100	14.17	35.82	26.80	00.251	1507.4							
	OBS	00101	14.13	35.82	26.81		1507.3							
	OBS	00119	13.68	35.75	26.85		1506.0							
	STD	00125	13.44	35.71	26.87	00.282	1505.3							
	OBS	00125	13.43	35.71	26.87		1505.2							
	OBS	00131	13.27	35.72	26.91		1504.8							
	STD	00150	12.43	35.56	26.96	00.312	1502.1							
	OBS	00153	12.30	35.54	26.97		1501.7							
	OBS	00176	11.71	35.46	27.02		1499.9							
	STD	00200	10.93	35.36	27.09	00.366	1497.5							
	OBS	00200	10.92	35.36	27.09		1497.4							
	OBS	00230	10.17	35.27	27.15		1495.1							
	STD	00250	09.55	35.21	27.21	00.415	1493.1							
	OBS	00251	09.53	35.21	27.21		1493.1							
	OBS	00264	09.32	35.19	27.23		1492.5							
	OBS	00269	09.12	35.18	27.26		1491.8							
	OBS	00275	09.12	35.17	27.25		1491.9							
	STD	00300	08.69	35.11	27.28	00.460	1490.6							
	OBS	00301	08.66	35.11	27.28		1490.5							
	OBS	00352	07.78	35.11	27.41		1488.0							
	STD	00400	06.93	35.05	27.49	00.536	1485.4							
	OBS	00402	06.88	35.05	27.50		1485.3							
	OBS	00453	06.01	35.05	27.61		1482.6							
	STD	00500	05.51	35.02	27.65	00.595	1481.3							
	OBS	00501	05.49	35.02	27.65		1481.3							
	OBS	00550	05.16	35.02	27.69		1480.8							
	STD	00600	04.93	35.02	27.72	00.644	1480.6							
	OBS	00602	04.92	35.02	27.72		1480.6							
	OBS	00651	04.82	35.02	27.73		1481.0							
	STD	00700	04.68	35.01	27.74	00.689	1481.3							
	OBS	00700	04.68	35.01	27.74		1481.3							
	OBS	00752	04.58	35.01	27.75		1481.7							
	STD	00800	04.48	35.00	27.76	00.733	1482.1							
	OBS	00801	04.48	35.00	27.76		1482.1							
	OBS	00852	04.40	34.99	27.76		1482.6							
	STD	00900	04.27	34.98	27.76	00.777	1482.9							
	OBS	00902	04.27	34.98	27.76		1482.9							
	OBS	00951	04.22	34.98	27.77		1483.5							
	STD	01000	04.12	34.97	27.77	00.820	1483.9							
	OBS	01000	04.12	34.97	27.77		1483.9							
	OBS	01086	04.03	34.97	27.78		1484.9							
	OBS	01089	04.05	34.98	27.79		1485.1							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BDTOP 00620	AIR TEMP 24.0	DIR HGT PER	WIND-DIR 23	INST STD RECORDER	TEN SQ 1209
CONSEC 0010	MONTH 08	SHIP EV	WET BULB 23.5	22 1 2	WIND-SPD 13	TRACE DIR 0	5 SQUARE 3
LAT 38 51.7N	DAY 15	DATA USE 1	BAROMETR 1018.8	SEA	WIND-FOR	DURATION 00.3	2 SQUARE 82
LONG 072 53.2W	HOUR 01.2	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 010	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.73	34.64	23.47	00.000	1531.4							
01.2	OBS	00000	23.73	34.64,	23.47		1531.4							
	STD	00010	23.54	34.65	23.53	00.044	1531.1							
	OBS	00013	23.49	34.65	23.55		1531.0							
	STD	00020	23.38	34.89	23.76	00.087	1531.1							
	OBS	00020	23.37	34.91	23.78		1531.1							
	OBS	00022	19.84	33.82	23.92		1526.7							
	OBS	00026	15.77	34.41	25.37		1509.5							
	STD	00030	15.63	34.38	25.37	00.121	1509.1							
	OBS	00030	15.63	34.38	25.37		1509.1							
	OBS	00031	14.45	34.16	25.46		1505.1							
	OBS	00035	14.23	34.28	25.60		1504.6							
	OBS	00037	13.76	34.49	25.86		1503.4							
	OBS	00039	13.55	34.58	25.97		1502.8							
	OBS	00041	13.64	34.74	26.08		1503.3							
	OBS	00043	13.47	34.70	26.08		1502.8							
	OBS	00048	13.46	34.89	26.23		1503.1							
	STD	00050	13.76	35.05	26.29	00.164	1504.3							
	OBS	00050	13.86	35.09	26.30		1504.7							
	OBS	00054	13.82	34.95	26.20 •		1504.4							
	OBS	00056	13.39	34.86	26.22		1502.9							
	OBS	00059	13.30	34.96	26.32		1502.8							
	OBS	00061	13.80	35.25	26.44		1504.8							
	OBS	00065	13.96	35.29	26.44		1505.5							
	OBS	00069	13.68	35.37	26.56		1504.7							
	STD	00075	13.65	35.47	26.64	00.204	1504.8							
	OBS	00076	13.64	35.50	26.67		1504.9							
	STD	00100	13.52	35.60	26.77	00.238	1505.0							
	OBS	00101	13.50	35.60	26.77		1504.9							
	STD	00125	12.89	35.58	26.88	00.270	1503.3							
	OBS	00127	12.85	35.58	26.89		1503.2							
	STD	00150	12.74	35.60	26.93	00.300	1503.2							
	OBS	00151	12.73	35.60	26.93		1503.2							
	OBS	00177	12.55	35.59	26.96		1503.0							
	STD	00200	11.80	35.46	27.00	00.357	1500.6							
	OBS	00202	11.71	35.45	27.01		1500.3							
	OBS	00228	10.56	35.35	27.15		1496.6							
	STD	00250	09.69	35.25	27.22	00.408	1493.7							
	OBS	00251	09.66	35.25	27.22		1493.6							
	OBS	00275	09.12	35.17	27.25		1491.9							
	OBS	00279	08.74	35.14	27.29		1490.5							
	STD	00300	08.14	35.12	27.37	00.450	1488.5							
	OBS	00303	08.06	35.12	27.38		1488.3							
	OBS	00350	07.50	35.10	27.45		1486.9							
	OBS	00399	06.61	35.09	27.56		1484.2							

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REFID 31 8408	YEAR 1974	BOTOP 00068	AIR TEMP 24.3	DIR HGT PER	WIND-DIR 27	INST STD RECORDER	TEN SQ 1209
CONSEC 0011	MONTH 08	SHIP EV	WET BULB 23.6	22 1 2	WIND-SPD 15	TRACE DIR 0	5 SQUARE 3
LAT 39 02.2N	DAY 15	DATA USE 1	BAROMETR 1016.2	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 82
LONG 073 09.1W	HOUR 03.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X4	ORIG 374 011	1 SQUARE 93

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.72	32.73	22.60	00.000	1524.1							
03.5	OBS	00000	21.72	32.73	22.60		1524.1							
	STD	00010	21.38	33.20	23.05	00.050	1523.9							
	OBS	00011	21.24	33.24	23.11		1523.6							
	OBS	00015	20.68	33.32	23.32		1522.3							
	OBS	00016	17.99	33.02	23.78		1514.4							
	OBS	00018	16.22	33.12	24.27		1509.2							
	STD	00020	14.63	33.27	24.74	00.091	1504.4							
	OBS	00020	14.07	33.28	24.86		1502.6							
	OBS	00022	13.07	33.11	24.94		1499.1							
	OBS	00026	12.46	33.14	25.08		1497.1							
	OBS	00028	09.27	33.10	25.61		1485.7							
	STD	00030	08.97	33.12	25.67	00.118	1484.7							
	OBS	00030	08.97	33.12	25.67		1484.7							
	OBS	00031	08.20	33.01	25.70		1481.6							
	OBS	00035	07.77	33.09	25.83		1480.1							
	OBS	00039	08.17	33.24	25.89		1481.9							
	OBS	00041	08.34	33.28	25.90		1482.7							
	STD	00050	08.32	33.31	25.92	00.163	1482.8							
	OBS	00050	08.32	33.31	25.92		1482.8							
	OBS	00056	08.31	33.32	25.93		1482.8							

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REFID 31 8408	YEAR 1974	BOTOP 00049	AIR TEMP 24.2	DIR HGT PER	WIND-DIR 27	INST STD RECORDER	TEN SQ 1209
CONSEC 0012	MONTH 08	SHIP EV	WET BULB 23.5	27 1 2	WIND-SPD 15	TRACE DIR 0	5 SQUARE 3
LAT 39 11.7N	DAY 15	DATA USE 1	BAROMETR 1017.8	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 82
LONG 073 26.3W	HOUR 05.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X4	ORIG 374 012	1 SQUARE 93

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.20	32.48	22.27	00.000	1525.1							
05.5	OBS	00000	22.20	32.48	22.27		1525.1							
	OBS	00009	21.99	32.42	22.29		1524.6							
	STD	00010	21.93	32.54	22.39	00.055	1524.6							
	OBS	00011	21.74	32.78	22.63		1524.4							
	OBS	00015	21.21	32.80	22.79		1523.1							
	OBS	00019	18.61	32.64	23.34		1515.8							
	STD	00020	16.20	32.74	23.99	00.102	1508.7							
	OBS	00020	14.53	32.81	24.41		1503.5							
	OBS	00024	12.66	32.80	24.78		1497.4							
	OBS	00026	11.05	32.30	24.69 •		1491.2							
	OBS	00028	09.53	32.75	25.30		1486.2							
	STD	00030	09.42	32.77	25.33	00.135	1485.9							
	OBS	00032	09.15	32.80	25.40		1485.0							
	OBS	00034	08.85	32.91	25.53		1484.0							
	OBS	00043	08.69	32.97	25.60		1483.6							

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REFID 31 8408	YEAR 1974	BOTOP 00031	AIR TEMP 22.8	DIR HGT PER	WIND-DIR 35	INST STD RECORDER	TEN SQ 1209
CONSEC 0013	MONTH 08	SHIP EV	WET BULB 21.1	36 1 2	WIND-SPD 13	TRACE DIR 0	5 SQUARE 3
LAT 39 21.7N	DAY 15	DATA USE 1	BAROMETR 1019.2	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 82
LONG 073 43.7W	HOUR 07.3	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 013	1 SQUARE 93

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.74	31.60	21.73	00.000	1522.9							
07.3	OBS	00000	21.74	31.60	21.73		1522.9							
	OBS	00009	21.26	32.09	22.23		1522.4							
	STD	00010	21.25	32.15	22.28	00.058	1522.4							
	OBS	00011	21.18	32.17	22.32		1522.2							
	OBS	00013	20.72	31.88	22.22 •		1520.7							
	OBS	00015	17.45	31.81	22.99		1511.3							
	OBS	00017	14.43	32.67	24.32		1503.0							
	OBS	00019	13.44	32.91	24.71		1500.0							
	STD	00020	13.33	32.93	24.74	00.102	1499.7							
	OBS	00020	13.25	32.94	24.77		1499.5							
	OBS	00028	13.28	33.00	24.81		1499.8							

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REFID 31 8408	YEAR 1974	BOTOP 00024	AIR TEMP 22.1	DIR HGT PER	WIND-DIR 11	INST STD RECORDER	TEN SQ 1209
CONSEC 0014	MONTH 08	SHIP EV	WET BULB 20.8	00 0 A	WIND-SPD 13	TRACE DIR 0	5 SQUARE 3
LAT 39 32.4N	DAY 15	DATA USE 1	BAROMETR 1019.4	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 84
LONG 074 01.3W	HOUR 09.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 014	1 SQUARE 94

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SI03	PH
	STD	00000	21.53	31.48	21.70	00.000	1522.2							
09.5	OBS	00000	21.53	31.48	21.70		1522.2							
	OBS	00009	21.54	31.48	21.70		1522.3							
	STD	00010	21.54	31.48	21.70	00.061	1522.4							
	OBS	00013	21.54	31.48	21.70		1522.4							
	OBS	00017	21.54	31.48	21.70		1522.5							

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REFID 31 8408	YEAR 1974	BOTOP 00022	AIR TEMP 22.0	DIR HGT PER	WIND-DIR 31	INST STD RECORDER	TEN SQ 1209
CONSEC 0015	MONTH 08	SHIP EV	WET BULB 20.2	02 1 2	WIND-SPD 23	TRACE DIR 0	5 SQUARE 3
LAT 39 46.2N	DAY 15	DATA USE 1	BAROMETR 1021.7	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 82
LONG 073 54.0W	HOUR 11.2	AREA 05	CLOUD T/A	CL/TR	WEATHER X3	ORIG 374 015	1 SQUARE 93

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SI03	PH
	STD	00000	21.69	31.45	21.63	00.000	1522.6							
11.2	OBS	00000	21.69	31.45	21.63		1522.6							
	STD	00010	21.48	31.38	21.64	00.062	1522.1							
	OBS	00011	21.45	31.37	21.64		1522.0							
	OBS	00013	20.82	31.41	21.84		1520.4							
	OBS	00015	20.46	31.56	22.05		1519.6							
	OBS	00017	20.45	31.58	22.06		1519.7							

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REFID 31 8408	YEAR 1974	BOTOP 00025	AIR TEMP 22.8	DIR HGT PER	WIND-DIR 34	INST STD RECORDER	TEN SQ 1309
CONSEC 0016	MONTH 08	SHIP EV	WET BULB 18.9	04 1 2	WIND-SPD 13	TRACE DIR 0	5 SQUARE 1
LAT 40 02.2N	DAY 15	DATA USE 1	BAROMETR 1023.3	SEA	WIND-FOR	DURATION 00.1	2 SQUARE 02
LONG 073 51.7W	HOUR 13.1	AREA 05	CLOUD T/A	CL/TR	WEATHER X3	ORIG 374 016 07	1 SQUARE 03

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SI03	PH
	STD	00000	21.05	31.20	21.62	00.000	1520.6							
13.1	OBS	00000	21.05	31.20	21.62		1520.6							
	OBS	00009	20.95	31.23	21.67		1520.5							
	STD	00010	20.92	31.26	21.70	00.062	1520.5							
	OBS	00011	20.85	31.32	21.76		1520.3							
	OBS	00017	20.57	31.37	21.87		1519.7							
	STD	00020	20.57	31.37	21.87	00.122	1519.8							
	OBS	00020	20.57	31.37	21.87		1519.8							

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REFID 31 8408	YEAR 1974	BOTOP 00020	AIR TEMP 22.0	DIR HGT PER	WIND-DIR 36	INST STD RECORDER	TEN SQ 1309
CONSEC 0017	MONTH 08	SHIP EV	WET BULB 19.5	36 0 2	WIND-SPD 05	TRACE DIR 0	5 SQUARE 1
LAT 40 19.8N	DAY 15	DATA USE 1	BAROMETR 1023.4	SEA	WIND-FOR	DURATION 00.2	2 SQUARE 02
LONG 073 51.6W	HOUR 15.1	AREA 05	CLOUD T/A	CL/TR	WEATHER X0	ORIG 374 017	1 SQUARE 03

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SI03	PH
	STD	00000	22.01	31.26	21.40	00.000	1523.2							
15.1	OBS	00000	22.01	31.26	21.40		1523.2							
	OBS	00009	21.83	31.23	21.43		1522.8							
	STD	00010	21.83	31.23	21.43	00.064	1522.8							
	OBS	00013	21.81	31.24	21.44		1522.8							
	OBS	00017	19.91	31.35	22.03		1517.9							
	OBS	00019	19.48	31.43	22.20		1516.8							

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REFID 31 8408 YEAR 1974 BOTOP 00018 AIR TEMP 23.0 DIR HGT PER WIND-DIR 19 INST STU RECORDER TEN SQ 1309
CONSEC 0018 MONTH 08 SHIP EV WET BULB 21.7 20 0 2 WIND-SPD 16 TRACE DIR 0 5 SQUARE 1
LAT 40 29.5N DAY 17 DATA USE 1 BAROMETR 1018.8 SEA WIND-FOR DURATION 00.1 2 SQUARE 02
LONG 073 39.7W HOUR 00.6 AREA 05 CLOUD T/A CL/TR WEATHER X1 ORIG 374 018 1 SQUARE 03

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.31	31.12	21.22	00.000	1523.8							
00.6	OBS	00000	22.31	31.12	21.22		1523.8							
	OBS	00007	22.24	31.10	21.22		1523.7							
	OBS	00009	22.12	31.10	21.25		1523.4							
	STD	00010	22.07	31.11	21.27	00.066	1523.3							
	OBS	00015	21.86	31.13	21.35		1522.9							
	OBS	00016	21.83	31.13	21.35		1522.8							

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REFID 31 8408 YEAR 1974 BOTOP 00049 AIR TEMP DIR HGT PER WIND-DIR 24 INST STU RECORDER TEN SQ 1309
CONSEC 0019 MONTH 08 SHIP EV WET BULB 24 1 2 WIND-SPD 18 TRACE DIR 0 5 SQUARE 1
LAT 40 05.1N DAY 17 DATA USE 1 BAROMETR 1019.4 SEA WIND-FOR DURATION 00.1 2 SQUARE 02
LONG 073 30.4W HOUR 03.6 AREA 05 CLOUD T/A CL/TR WEATHER X1 ORIG 374 019 1 SQUARE 03

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.17	31.26	21.36	00.000	1523.6							
03.6	OBS	00000	22.17	31.26	21.36		1523.6							
	OBS	00005	22.16	31.25	21.35		1523.7							
	STD	00010	22.01	31.27	21.41	00.064	1523.4							
	OBS	00011	21.87	31.28	21.46		1523.0							
	OBS	00013	21.61	31.29	21.54		1522.4							
	OBS	00015	17.05	31.56	22.89		1509.8							
	STD	00020	15.00	32.15	23.80	00.117	1504.2							
	OBS	00020	14.66	32.22	23.93		1503.2							
	OBS	00024	13.42	32.41	24.33		1499.5							
	OBS	00026	12.39	32.69	24.74		1496.3							
	OBS	00028	12.34	32.64	24.72		1496.1							
	STD	00030	12.01	32.62	24.76	00.153	1495.0							
	OBS	00030	11.91	32.61	24.77		1494.6							
	OBS	00036	11.65	32.69	24.88		1493.9							
	OBS	00040	11.28	32.56	24.85 *		1492.5							
	OBS	00041	09.72	32.64	25.18		1487.0							
	OBS	00043	09.14	32.72	25.33		1485.0							

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REFID 31 8408 YEAR 1974 BOTOP 00049 AIR TEMP 22.8 DIR HGT PER WIND-DIR 19 INST STU RECORDER TEN SQ 1209
CONSEC 0020 MONTH 08 SHIP EV WET BULB 21.4 00 0 X WIND-SPD 14 TRACE DIR 0 5 SQUARE 3
LAT 39 50.8N DAY 17 DATA USE 1 BAROMETR 1019.3 SEA WIND-FOR DURATION 00.2 2 SQUARE 82
LONG 073 11.7W HOUR 06.9 AREA 05 CLOUD T/A CL/TR WEATHER X3 ORIG 374 020 1 SQUARE 93

(STNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.57	31.56	21.75	00.000	1522.4							
06.9	OBS	00000	21.57	31.56	21.75		1522.4							
	OBS	00005	21.56	31.56	21.75		1522.4							
	OBS	00009	20.80	31.55	21.95		1520.4							
	STD	00010	20.64	31.56	22.00	00.060	1520.0							
	OBS	00013	19.94	31.58	22.20		1518.2							
	OBS	00016	15.31	32.10	23.69		1505.1							
	OBS	00018	13.53	32.50	24.37		1499.8							
	STD	00020	13.25	32.55	24.47	00.108	1499.0							
	OBS	00020	13.14	32.56	24.50		1498.6							
	OBS	00024	11.56	32.60	24.83		1493.3							
	OBS	00025	10.31	32.78	25.19		1489.1							
	STD	00030	10.23	32.81	25.23	00.137	1488.9							
	OBS	00031	10.19	32.82	25.24		1488.8							
	OBS	00039	09.92	32.82	25.29		1487.9							

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REFID 31 8408 YEAR 1974 BOTOP 00060 AIR TEMP 22.6 DIR HGT PER WIND-DIR 19 INST STD RECORDER TEN SQ 1209
CONSEC 0021 MONTH 08 SHIP EV WET BULB 21.7 00 0 X WIND-SPD 13 TRACE DIR 0 S SQUARE 3
LAT 39 37.6N DAY 17 DATA USE 1 BAROMETR 1018.2 SEA WIND-FOR DURATION 00.1 2 SQUARE 82
LONG 072 54.7W HOUR 08.1 AREA 05 CLOUD T/A CL/TR WEATHER A0 ORIG 374 021 1 SQUARE 92

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.75	32.54	22.44	00.000	1524.0							
08.1	OBS	00000	21.75	32.54	22.44		1524.0							
	OBS	00009	21.63	32.63	22.54		1523.9							
	STD	00010	21.61	32.87	22.73	00.053	1524.1							
	OBS	00011	21.47	33.09	22.94		1524.0							
	OBS	00013	20.96	32.92	22.95		1522.5							
	OBS	00014	18.41	32.02	22.92 *		1519.4							
	OBS	00016	14.54	32.45	24.13		1503.1							
	OBS	00018	13.84	32.78	24.53		1501.2							
	STD	00020	13.84	32.90	24.62	00.095	1501.4							
	OBS	00020	13.84	32.93	24.64		1501.4							
	OBS	00026	12.24	32.97	24.99		1496.2							
	STD	00030	11.97	33.02	25.08	00.126	1495.4							
	OBS	00031	11.30	33.05	25.23		1493.1							
	OBS	00035	08.98	32.68	25.33		1484.2							
	OBS	00037	08.09	32.85	25.60		1481.1							
	OBS	00046	08.13	33.02	25.72		1481.6							
	STD	00050	07.82	33.03	25.78	00.178	1480.5							
	OBS	00050	07.78	33.03	25.78		1480.3							
	OBS	00052	07.68	33.02	25.79		1480.0							
	OBS	00056	07.66	33.08	25.84		1480.0							
	OBS	00058	07.66	33.12	25.87		1480.1							

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REFID 31 8408 YEAR 1974 BOTOP 00119 AIR TEMP DIR HGT PER WIND-DIR 16 INST STD RECORDER TEN SQ 1209
CONSEC 0022 MONTH 08 SHIP EV WET BULB 15 1 2 WIND-SPD 10 TRACE DIR 0 S SQUARE 3
LAT 39 24.5N DAY 17 DATA USE 1 BAROMETR 1017.7 SEA WIND-FOR DURATION 00.1 2 SQUARE 82
LONG 072 34.2W HOUR 10.1 AREA 05 CLOUD T/A CL/TR WEATHER A0 ORIG 374 022 1 SQUARE 92

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.47	33.53	22.99	00.000	1527.0							
10.1	OBS	00000	22.47	33.53	22.99		1527.0							
	STD	00010	22.37	33.42	22.94 *	00.049	1526.7							
	OBS	00011	22.36	33.41	22.93		1526.7							
	OBS	00013	21.80	33.56	23.20		1525.5							
	OBS	00014	21.09	33.36	23.24		1523.4							
	STD	00020	15.09	32.93	24.38	00.092	1505.5							
	OBS	00020	14.73	32.92	24.45		1504.3							
	OBS	00024	13.32	33.02	24.82		1499.9							
	OBS	00026	12.88	33.70	25.43		1499.3							
	STD	00030	13.53	33.75	25.34 *	00.123	1501.6							
	OBS	00031	13.83	33.78	25.30 *		1502.6							
	OBS	00035	09.60	33.54	25.90		1487.6							
	OBS	00048	09.47	33.45	25.85 *		1487.2							
	STD	00050	09.37	33.52	25.92	00.170	1487.0							
	OBS	00050	09.34	33.57	25.97		1486.9							
	OBS	00052	09.96	33.90	26.12		1489.7							
	OBS	00054	10.33	33.89	26.05 *		1491.0							
	OBS	00057	10.48	33.85	25.99 *		1491.6							
	OBS	00061	10.59	34.04	26.12		1492.3							
	OBS	00074	10.88	34.22	26.21		1493.8							
	STD	00075	10.91	34.24	26.22	00.219	1493.9							
	OBS	00080	11.39	34.53	26.36		1496.1							
	OBS	00086	11.76	34.72	26.44		1497.7							
	OBS	00087	12.24	34.83	26.43		1499.5							
	OBS	00095	12.50	34.97	26.49		1500.7							
	OBS	00099	13.44	35.38	26.62		1504.4							
	STD	00100	13.53	35.43	26.63	00.260	1504.8							
	OBS	00101	13.61	35.47	26.65		1505.1							
	OBS	00110	13.57	35.48	26.67		1505.2							

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REFID 31 8408	YEAR 1974	BOTDP 00402	AIR TEMP 24.8	DIR HGT PER	WIND-DIR 18	INST STJ RECORDER	TEN SQ 1209
CONSEC 0023	MONTH 08	SHIP EV	WET BULB 22.6	18 0 2	WIND-SPD 12	TRACE DIR 0	5 SQUARE 3
LAT 39 13.7N	DAY 17	DATA USE 1	BAROMETR 1011.3	SEA	WIND-FOR	DURATION 00.4	2 SQUARE 82
LONG 072 19.7W	HOUR 12.6	AREA 05	CLOUD T/A	CL/IR	WEATHER X0	ORIG 374 023 13	1 SQUARE 92

CASINUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	23.92	35.51	24.07	00.000	1532.8							
12.6	OBS	00000	23.92	35.51	24.07		1532.8							
	STD	00010	23.92	35.51	24.07	00.039	1533.0							
	OBS	00011	23.92	35.51	24.07		1533.0							
	STD	00020	23.90	35.51	24.08	00.077	1533.1							
	OBS	00020	23.90	35.51	24.08		1533.1							
	OBS	00022	23.66	35.50	24.14		1532.5							
	OBS	00026	23.53	35.40	24.10 *		1532.2							
	STD	00030	21.57	35.40	24.66	00.113	1527.3							
	OBS	00030	21.57	35.40	24.66		1527.3							
	OBS	00031	20.32	35.26	24.89		1523.8							
	OBS	00033	19.70	35.60	25.32		1522.6							
	OBS	00043	19.09	35.69	25.54		1521.1							
	OBS	00046	19.02	35.69	25.56		1521.0							
	STD	00050	16.94	35.59	26.00	00.166	1514.9							
	OBS	00050	16.70	35.58	26.05		1514.2							
	OBS	00054	16.42	35.52	26.07		1513.3							
	OBS	00061	15.38	35.68	26.43		1510.4							
	STD	00075	14.96	35.72	26.55	00.211	1509.4							
	OBS	00076	14.93	35.73	26.57		1509.3							
	OBS	00086	14.91	35.83	26.65		1509.5							
	STD	00100	14.55	35.82	26.72	00.246	1508.6							
	OBS	00103	14.45	35.81	26.73		1508.3							
	STD	00125	13.59	35.68	26.82	00.279	1505.7							
	OBS	00125	13.57	35.68	26.82		1505.7							
	OBS	00142	13.16	35.66	26.89		1504.6							
	STD	00150	12.69	35.61	26.95	00.310	1503.0							
	OBS	00150	12.69	35.61	26.95		1503.0							
	OBS	00176	12.01	35.50	26.99		1501.0							
	OBS	00198	11.29	35.42	27.07		1498.8							
	STD	00200	11.21	35.40	27.07	00.365	1498.5							
	OBS	00202	11.05	35.36	27.07		1497.9							
	OBS	00215	10.40	35.29	27.13		1495.7							
	OBS	00225	10.06	35.25	27.16		1494.6							
	OBS	00243	09.68	35.21	27.19		1493.5							
	OBS	00245	09.40	35.17	27.21		1492.4							
	STD	00250	09.31	35.17	27.22	00.414	1492.2							
	OBS	00255	09.21	35.16	27.23		1491.9							
	OBS	00275	08.74	35.13	27.28		1490.4							
	STD	00300	08.39	35.11	27.32	00.458	1489.5							
	OBS	00300	08.39	35.11	27.32		1489.5							
	OBS	00328	07.65	35.05	27.39		1487.0							
	OBS	00352	07.10	35.06	27.47		1485.3							
	OBS	00393	06.85	35.07	27.52		1485.0							
	OBS	00395	06.85	35.08	27.52		1485.1							

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REFID 31 8408	YEAR 1974	BOTDP 02193	AIR TEMP 25.0	DIR HGT PER	WIND-DIR 17	INST STU RECORDER	TEN SQ 1209
CONSEC 0024	MONTH 08	SHIP EV	WET BULB 23.0	17 1 2	WIND-SPD 18	TRACE DIR 0	5 SQUARE 3
LAT 39 01.3N	DAY 17	DATA USE 1	BAROMETR 1016.9	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 02.8W	HOUR 15.7	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 024 21	1 SQUARE 92

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	24.35	35.37	23.84	00.000	1533.7							
15.7	OBS	00000	24.35	35.37	23.84		1533.7							
	STD	00010	24.35	35.49	23.93	00.040	1534.0							
	OBS	00013	24.35	35.52	23.95		1534.1							
	STD	00020	24.25	35.59	24.03	00.080	1534.0							
	OBS	00020	24.24	35.59	24.04		1534.0							
	STD	00030	23.99	35.56	24.09	00.119	1533.5							
	OBS	00030	23.99	35.56	24.09		1533.5							
	OBS	00031	23.22	35.54	24.30		1531.7							
	OBS	00035	21.62	35.65	24.84		1527.8							
	OBS	00039	20.49	35.52	25.05		1524.7							
	OBS	00041	19.00	35.41	25.35		1520.5							
	OBS	00043	18.29	35.54	25.63		1518.7							
	OBS	00045	18.30	35.71	25.76		1518.9							
	STD	00050	18.14	35.72	25.81	00.179	1518.6							
	OBS	00050	18.12	35.75	25.83		1518.6							
	OBS	00054	18.03	36.10	26.12		1518.8							
	OBS	00058	17.92	36.08	26.14		1518.5							
	OBS	00059	17.31	35.66	25.96 •		1516.2							
	OBS	00061	16.13	35.44	26.07		1512.5							
	OBS	00063	15.81	35.57	26.25		1511.7							
	OBS	00067	15.31	35.58	26.37		1510.2							
	OBS	00069	15.47	35.68	26.41		1510.8							
	OBS	00073	15.34	35.65	26.41		1510.5							
	OBS	00074	15.01	35.68	26.51		1509.5							
	STD	00075	15.01	35.68	26.51	00.226	1509.5							
	OBS	00078	15.02	35.73	26.55		1509.6							
	OBS	00084	14.99	35.81	26.62		1509.7							
	STD	00100	14.66	35.85	26.72	00.263	1509.0							
	OBS	00101	14.63	35.85	26.73		1508.9							
	STD	00125	13.68	35.72	26.83	00.296	1506.1							
	OBS	00125	13.66	35.72	26.83		1506.0							
	STD	00150	12.77	35.58	26.91	00.326	1503.3							
	OBS	00153	12.62	35.56	26.92		1502.8							
	OBS	00176	11.62	35.43	27.01		1499.6							
	STD	00200	10.51	35.31	27.13	00.381	1495.9							
	OBS	00200	10.49	35.31	27.13		1495.8							
	OBS	00226	09.76	35.21	27.18		1493.5							
	STD	00250	09.25	35.15	27.22	00.429	1491.9							
	OBS	00251	09.23	35.15	27.22		1491.9							
	OBS	00275	08.83	35.14	27.27		1490.8							
	STD	00300	08.40	35.12	27.33	00.472	1489.5							
	OBS	00301	08.37	35.12	27.33		1489.4							
	OBS	00352	07.53	35.09	27.43		1487.0							
	STD	00400	06.52	35.06	27.55	00.543	1483.8							
	OBS	00400	06.51	35.06	27.55		1483.8							
	OBS	00451	05.88	35.05	27.63		1482.1							
	STD	00500	05.48	35.04	27.67	00.598	1481.3							
	OBS	00501	05.47	35.04	27.67		1481.2							
	OBS	00550	05.11	35.03	27.71		1480.6							
	STD	00600	04.90	35.02	27.72	00.646	1480.5							
	OBS	00602	04.89	35.02	27.73		1480.5							
	OBS	00653	04.77	35.03	27.75		1480.9							
	STD	00700	04.66	35.02	27.75	00.690	1481.2							
	OBS	00700	04.66	35.02	27.75		1481.2							
	OBS	00750	04.64	35.03	27.76		1482.0							
	STD	00800	04.57	35.02	27.76	00.733	1482.5							
	OBS	00803	04.56	35.02	27.76		1482.5							
	OBS	00853	04.40	35.00	27.76		1482.6							
	STD	00900	04.33	35.00	27.77	00.776	1483.1							
	OBS	00900	04.33	35.00	27.77		1483.1							
	OBS	00953	04.27	35.00	27.78		1483.7							
	STD	01000	04.19	34.99	27.78	00.819	1484.2							
	OBS	01000	04.19	34.99	27.78		1484.2							
	OBS	01078	04.10	34.98	27.78		1485.1							
	OBS	01089	04.10	34.99	27.79		1485.3							

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NODC STATION DATA

REPID 31 8406	YEAR 1974	BOTOP 02560	AIR TEMP 26.0	OIR HGT PER	WIND-DIR 15	INST STU RECORDER	TEN SQ 1209
CONSEC 0025	MONTH 08	SHIP EV	WET BULB 23.0	15 0 2	WIND-SPD 19	TRACE OIR D	5 SQUARE 3
LAT 38 52.0N	DAY 17	DATA USE 1	BAROMETR 1014.2	SEA	WIND-FDR	DURATION 01.0	2 SQUARE 80
LONG 071 47.9W	HOUR 19.1	AREA 05	CLOUD T/A	CL/TR	WEATHER XL	ORIG 374 025 25	1 SQUARE 81

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNOPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.73	35.49	23.81	00.000	1534.7							
19.1	OBS	00000	24.73	35.49	23.81		1534.7							
	STD	00010	24.65	35.46	23.82	00.041	1534.7							
	OBS	00011	24.63	35.46	23.82		1534.6							
	STD	00020	24.56	35.45	23.84	00.082	1534.6							
	OBS	00024	24.39	35.45	23.89		1534.3							
	OBS	00028	24.17	35.56	24.03		1533.9							
	STD	00030	22.59	35.90	24.75	00.118	1530.5							
	OBS	00030	22.59	35.90	24.75		1530.5							
	OBS	00031	21.82	36.08	25.11		1528.7							
	OBS	00033	21.32	36.14	25.29		1527.5							
	OBS	00039	21.00	35.91	25.20 •		1526.5							
	OBS	00041	19.79	36.06	25.64		1523.5							
	STD	00050	17.27	35.65	25.96	00.171	1516.0							
	OBS	00050	17.09	35.62	25.99		1515.4							
	OBS	00052	16.53	35.65	26.14		1513.8							
	OBS	00061	16.68	35.80	26.22		1514.6							
	OBS	00067	15.70	35.63	26.32		1511.5							
	OBS	00069	15.54	35.74	26.44		1511.1							
	OBS	00071	15.47	35.51	26.28 •		1510.7							
	OBS	00073	15.19	35.68	26.47		1510.0							
	OBS	00074	15.45	35.86	26.55		1511.1							
	STD	00075	15.45	35.86	26.55	00.216	1511.1							
	OBS	00076	15.38	35.82	26.54		1510.8							
	OBS	00078	15.14	35.82	26.59		1510.1							
	STD	00100	14.34	35.79	26.74	00.252	1507.9							
	OBS	00101	14.30	35.79	26.75		1507.8							
	STD	00125	13.50	35.72	26.87	00.284	1505.5							
	OBS	00125	13.49	35.72	26.87		1505.5							
	STD	00150	12.82	35.62	26.93	00.314	1503.5							
	OBS	00151	12.76	35.61	26.93		1503.3							
	OBS	00176	11.81	35.49	27.02		1500.3							
	STD	00200	11.06	35.40	27.10	00.369	1498.0							
	OBS	00200	11.05	35.40	27.10		1497.9							
	OBS	00226	10.28	35.29	27.15		1495.5							
	STD	00250	09.53	35.19	27.20	00.418	1493.0							
	OBS	00250	09.50	35.19	27.20		1492.9							
	OBS	00271	08.94	35.16	27.27		1491.1							
	OBS	00275	08.71	35.12	27.28		1490.3							
	STD	00300	08.10	35.09	27.35	00.461	1488.3							
	OBS	00301	08.06	35.09	27.36		1488.2							
	OBS	00350	06.62	35.07	27.52		1484.2							
	STD	00400	06.28	35.07	27.59	00.529	1482.9							
	OBS	00402	06.25	35.07	27.60		1482.8							
	OBS	00451	05.74	35.05	27.65		1481.5							
	STD	00500	05.29	35.03	27.69	00.581	1480.5							
	OBS	00503	05.26	35.03	27.69		1480.4							
	OBS	00552	05.03	35.02	27.71		1480.3							
	STD	00600	04.88	35.03	27.73	00.627	1480.5							
	OBS	00601	04.86	35.03	27.73		1480.5							
	OBS	00655	04.72	35.03	27.75		1480.7							
	STD	00700	04.64	35.03	27.76	00.670	1481.1							
	OBS	00700	04.64	35.03	27.76		1481.1							
	OBS	00752	04.55	35.01	27.76		1481.6							
	STD	00800	04.49	35.02	27.77	00.713	1482.1							
	OBS	00803	04.48	35.02	27.77		1482.2							
	OBS	00850	04.35	35.01	27.78		1482.4							
	STD	00900	04.24	35.00	27.78	00.755	1482.7							
	OBS	00904	04.23	35.00	27.78		1482.8							
	OBS	00951	04.19	35.00	27.79		1483.4							
	STD	01000	04.12	34.99	27.79	00.797	1483.9							
	OBS	01001	04.12	34.99	27.79		1483.9							
	OBS	01013	04.10	34.98	27.78		1484.0							
	OBS	01063	04.03	34.98	27.79		1484.6							
	OBS	01086	04.03	34.99	27.80		1484.9							

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N O O C S T A T I O N D A T A

REF ID 31 8408	YEAR 1974	BOTOP 02549	AIR TEMP 24.7	DIR HGT PER	WIND-DIA 19	INST STD RECORDER	TEN SQ 1209
CONSEC 0026	MONTH 08	SHIP EV	WET BULB 23.8	15 1 2	WIND-SPD 08	TRACE DIR 0	5 SQUARE 3
LAT 39 14.0N	DAY 18	DATA USE 1	BAROMETR	SEA	WIND-DIR	DURATION 01.0	2 SQUARE 80
LONG 071 25.9W	HOUR 06.9	AREA 05	CLOUD I/A	CL/TR	WEATHER X2	ORIG 374 026	1 SQUARE 91

CASTRUN/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.81	35.42	24.04	00.000	1532.4							
06.9	OBS	00000	23.81	35.42	24.04		1532.4							
	STD	00010	23.81	35.41	24.03	00.039	1532.6							
	OBS	00013	23.81	35.41	24.03		1532.7							
	STD	00020	23.81	35.41	24.03	00.078	1532.8							
	OBS	00020	23.81	35.41	24.03		1532.8							
	STD	00030	23.52	35.35	24.07	00.117	1532.2							
	OBS	00030	23.52	35.35	24.07		1532.2							
	OBS	00031	22.62	35.00	24.06		1529.5							
	OBS	00033	19.59	34.62	24.60		1521.1							
	OBS	00035	18.88	35.15	25.18		1519.8							
	OBS	00037	18.05	35.21	25.44		1517.5							
	OBS	00039	18.41	35.65	25.69		1519.1							
	OBS	00041	17.81	35.49	25.71		1517.2							
	OBS	00043	17.42	35.46	25.78		1516.1							
	OBS	00048	15.54	35.39	26.17		1510.4							
	STD	00050	15.43	35.42	26.22	00.174	1510.1							
	OBS	00052	15.27	35.48	26.30		1509.7							
	OBS	00061	15.23	35.69	26.47		1510.0							
	STD	00075	14.71	35.75	26.63	00.214	1508.6							
	OBS	00076	14.65	35.76	26.65		1508.5							
	STD	00100	14.12	35.82	26.81	00.248	1507.2							
	OBS	00101	14.09	35.82	26.82		1507.1							
	STD	00125	13.53	35.65	26.81	00.280	1505.5							
	OBS	00125	13.52	35.65	26.81		1505.5							
	STD	00150	12.94	35.64	26.92	00.311	1503.9							
	OBS	00151	12.89	35.64	26.93		1503.8							
	OBS	00176	12.11	35.53	27.00		1501.4							
	STD	00200	11.37	35.41	27.04	00.368	1499.1							
	OBS	00202	11.30	35.40	27.05		1498.9							
	OBS	00228	10.62	35.33	27.12		1496.8							
	STD	00250	10.16	35.28	27.16	00.419	1495.4							
	OBS	00250	10.14	35.28	27.17		1495.4							
	OBS	00275	09.61	35.20	27.19		1493.7							
	STD	00300	09.21	35.16	27.23	00.466	1492.6							
	OBS	00301	09.19	35.16	27.23		1492.6							
	OBS	00350	08.39	35.13	27.34		1490.3							
	STD	00400	07.57	35.11	27.44	00.547	1488.0							
	OBS	00400	07.56	35.11	27.45		1488.0							
	OBS	00453	06.67	35.05	27.52		1485.3							
	STD	00500	06.11	35.02	27.58	00.612	1483.8							
	OBS	00501	06.09	35.02	27.58		1483.7							
	OBS	00550	05.67	35.03	27.64		1482.8							
	STD	00600	05.34	35.03	27.68	00.667	1482.3							
	OBS	00601	05.33	35.03	27.68		1482.3							
	OBS	00651	05.01	35.02	27.71		1481.8							
	STD	00700	04.83	35.02	27.73	00.715	1481.9							
	OBS	00702	04.82	35.02	27.73		1481.9							
	OBS	00750	04.65	35.00	27.74		1482.0							
	STD	00800	04.55	35.00	27.75	00.760	1482.4							
	OBS	00801	04.55	35.00	27.75		1482.4							
	OBS	00850	04.49	35.00	27.75		1482.9							
	STD	00900	04.40	35.00	27.76	00.804	1483.4							
	OBS	00902	04.40	35.00	27.76		1483.4							
	OBS	00951	04.33	35.00	27.77		1484.0							
	STD	01000	04.23	34.98	27.77	00.848	1484.3							
	OBS	01000	04.23	34.98	27.77		1484.3							
	OBS	01076	04.16	34.99	27.78		1485.3							
	OBS	01088	04.16	34.99	27.78		1485.5							

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REFID 31 E408	YEAR 1974	BOTOP 01987	AIR TEMP 23.6	DIR HGT PER	WIND-DIR 27	INST STA RECORDER	TEN SQ 1209
CONSEC 0027	MONTH 08	SHIP EV	WET BULB 22.8	18 2 2	WIND-SPD 13	TRACE DIR D	5 SQUARE 3
LAT 39 25.3N	DAY 18	DATA USE 1	BAROMETR 1009.9	SEA	WIND-FOR	DURATION 00.5	2 SQUARE 80
LONG 071 39.8W	HOUR 09.6	AREA 05	CLOUD T/A	CL/TR	WEATHER X2	ORIG 374 027	1 SQUARE 91

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.98	35.48	24.03	00.000	1532.9							
09.6	OBS	00000	23.98	35.48	24.03		1532.9							
	STD	00010	23.99	35.49	24.03	00.039	1533.1							
	OBS	00011	23.99	35.49	24.04		1533.1							
	STD	00020	23.98	35.46	24.01	00.078	1533.2							
	OBS	00022	23.94	35.45	24.02		1533.2							
	OBS	00028	23.78	35.49	24.10		1532.9							
	STD	00030	23.63	35.48	24.14	00.117	1532.6							
	OBS	00031	23.49	35.48	24.18		1532.3							
	OBS	00033	21.75	35.53	24.71		1528.0							
	OBS	00037	20.97	35.74	25.08		1526.2							
	OBS	00039	19.24	35.50	25.36		1521.3							
	OBS	00045	17.39	35.48	25.81		1516.0							
	STD	00050	16.53	35.47	26.00	00.175	1513.5							
	OBS	00050	16.48	35.47	26.02		1513.4							
	OBS	00052	16.40	35.62	26.15		1513.3							
	OBS	00054	16.29	35.65	26.20		1513.1							
	OBS	00056	16.31	35.72	26.25		1513.3							
	OBS	00061	15.72	35.57	26.27		1511.4							
	OBS	00067	15.33	35.65	26.42		1510.3							
	STD	00075	14.69	35.73	26.57	00.219	1509.2							
	OBS	00076	14.81	35.74	26.60		1509.0							
	STD	00100	14.46	35.77	26.70	00.255	1508.2							
	OBS	00103	14.27	35.77	26.74		1507.7							
	OBS	00110	13.66	35.68	26.80		1505.7							
	STD	00125	13.35	35.67	26.86	00.288	1504.9							
	OBS	00125	13.34	35.67	26.86		1504.9							
	STD	00150	12.65	35.60	26.95	00.317	1502.9							
	OBS	00151	12.61	35.60	26.95		1502.8							
	OBS	00176	12.06	35.53	27.01		1501.2							
	STD	00200	11.52	35.46	27.06	00.373	1499.7							
	OBS	00202	11.45	35.45	27.06		1499.4							
	OBS	00226	10.53	35.32	27.13		1496.4							
	STD	00250	09.94	35.23	27.16	00.424	1494.6							
	OBS	00251	09.92	35.23	27.16		1494.5							
	OBS	00275	09.46	35.18	27.20		1493.2							
	STD	00300	09.23	35.20	27.26	00.470	1492.7							
	OBS	00301	09.21	35.20	27.26		1492.7							
	OBS	00352	08.21	35.10	27.34		1489.6							
	STD	00400	07.40	35.08	27.45	00.550	1487.3							
	OBS	00400	07.39	35.08	27.45		1487.3							
	OBS	00451	06.53	35.05	27.54		1484.7							
	STD	00500	05.83	35.05	27.63	00.613	1482.7							
	OBS	00503	05.79	35.05	27.64		1482.6							
	OBS	00550	05.36	35.03	27.68		1481.6							
	STD	00600	05.06	35.02	27.71	00.663	1481.2							
	OBS	00604	05.04	35.02	27.71		1481.2							
	OBS	00651	04.92	35.01	27.71		1481.4							
	STD	00700	04.77	35.01	27.73	00.709	1481.6							
	OBS	00700	04.77	35.01	27.73		1481.6							
	OBS	00750	04.60	35.00	27.74		1481.6							
	STD	00800	04.48	35.00	27.76	00.754	1482.1							
	OBS	00801	04.48	35.00	27.76		1482.1							
	OBS	00850	04.38	34.99	27.76		1482.5							
	STD	00900	04.30	34.99	27.77	00.798	1483.0							
	OBS	00900	04.30	34.99	27.77		1483.0							
	OBS	00951	04.28	35.00	27.78		1483.8							
	OBS	00998	04.24	34.98	27.77		1484.3							
	STD	01000	04.24	34.99	27.77	00.841	1484.4							
	OBS	01000	04.24	34.99	27.77		1484.4							
	OBS	01071	04.13	34.98	27.78		1485.1							
	OBS	01089	04.13	34.99	27.79		1485.4							

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REFID 31 8408	YEAR 1974	BOTOP 00402	AIR TEMP 23.4	DIR HGT PER	WIND-DIR 29	INST STA RECORDER	TEN SQ 1209
CONSEC 0028	MONTH 08	SHIP EV	WET BULB 21.7	29 0 2	WIND-SPD 08	TRACE DIR 0	5 SQUARE 3
LAT 39 40.0N	DAY 18	DATA USE :	BAROMETR 1011.9	SEA	WIND-FOR	DURATION 00.5	2 SQUARE 80
LONG 071 55.6W	HOUR 12.8	AREA 05	CLOUD T/A	CL/TR	WEATHER X2	ORIG 374 028 25	1 SQUARE 91

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.84	34.57	23.67	00.000	1529.1							
12.8	OBS	00000	22.84	34.57	23.67		1529.1							
	OBS	00005	22.83	34.56	23.67		1529.1							
	OBS	00009	22.93	34.77	23.80		1529.7							
	STD	00010	23.04	34.88	23.85	00.041	1530.1							
	OBS	00015	23.27	35.28	24.09		1531.2							
	OBS	00016	23.06	35.22	24.10		1530.6							
	STD	00020	22.90	35.11	24.07 •	00.081	1530.2							
	OBS	00020	22.57	35.08	24.14		1529.3							
	OBS	00022	20.92	34.98	24.52		1525.0							
	OBS	00024	19.07	35.17	25.15		1520.1							
	OBS	00026	18.59	34.85	25.03 •		1518.4							
	STD	00030	12.80	33.00	24.91 •	00.116	1498.2							
	OBS	00030	12.80	33.00	24.91		1498.2							
	OBS	00033	10.43	32.92	25.28		1489.8							
	OBS	00035	09.34	33.29	25.75		1486.3							
	OBS	00037	09.49	33.49	25.88		1487.2							
	OBS	00045	10.62	33.95	26.05		1492.0							
	OBS	00046	11.49	34.14	26.04		1495.4							
	OBS	00048	11.76	34.18	26.02		1496.4							
	STD	00050	11.95	34.35	26.11	00.166	1497.3							
	OBS	00050	12.04	34.42	26.15		1497.7							
	OBS	00058	12.55	34.67	26.25		1499.9							
	OBS	00063	12.42	34.76	26.34		1499.6							
	OBS	00065	12.84	35.07	26.50		1501.5							
	OBS	00067	13.14	35.16	26.51		1502.6							
	OBS	00069	13.17	35.19	26.52		1502.8							
	OBS	00073	13.52	35.59	26.76		1504.5							
	STD	00075	13.67	35.50	26.66 •	00.207	1504.9							
	OBS	00076	13.79	35.43	26.58 •		1505.3							
	STD	00100	14.11	35.73	26.74	00.242	1507.1							
	OBS	00101	14.13	35.74	26.75		1507.2							
	OBS	00110	14.30	35.84	26.79		1508.0							
	OBS	00123	13.27	35.65	26.86		1504.6							
	STD	00125	13.23	35.68	26.89	00.274	1504.5							
	OBS	00125	13.23	35.68	26.89		1504.5							
	OBS	00127	13.27	35.65	26.86 •		1504.7							
	STD	00150	12.56	35.59	26.96	00.303	1502.6							
	OBS	00150	12.56	35.59	26.96		1502.6							
	OBS	00176	11.92	35.50	27.01		1500.7							
	STD	00200	11.03	35.39	27.09	00.358	1497.9							
	OBS	00206	10.86	35.37	27.11		1497.3							
	OBS	00225	10.49	35.33	27.14		1496.3							
	STD	00250	09.75	35.25	27.21	00.406	1493.9							
	OBS	00251	09.71	35.25	27.22		1493.8							
	OBS	00279	08.96	35.16	27.27		1491.3							
	STD	00300	08.23	35.11	27.34	00.449	1488.9							
	OBS	00303	08.11	35.10	27.36		1488.5							
	OBS	00352	06.94	35.06	27.49		1484.7							
	OBS	00391	06.44	35.07	27.57		1483.4							
	OBS	00393	06.44	35.06	27.56		1483.4							

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REFID 31 8408 YEAR 1974 BOTOP 00086 AIR TEMP 23.0 DIR HGT PER WIND-DIR 32 INST STD RECORDER TEN SQ 1209
CONSEC 0029 MONTH 08 SHIP EV WET BULB 20.9 32 0 2 WIND-SPD 10 TRACE DIR D 5 SQUARE 3
LAT 39 50.9N DAY 18 DATA USE 1 BAROMETR 1012.9 SEA WIND-FOR DURATION 00.5 2 SQUARE 82
LONG 072 09.3W HOUR 15.0 AREA 05 CLOUD T/A CL/TR WEATHER X1 ORIG 374 029 29 1 SQUARE 92

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.66	34.98	23.75	00.000	1531.6							
15.0	OBS	00000	23.66	34.98	23.75		1531.6							
	STD	00010	23.66	35.10	23.84	00.041	1531.9							
	OBS	00011	23.64	35.12	23.86		1531.9							
	STD	00020	23.45	35.33	24.07	00.081	1531.8							
	OBS	00020	23.40	35.33	24.09		1531.7							
	OBS	00024	23.01	35.31	24.19		1530.8							
	OBS	00028	21.12	35.10	24.56		1525.7							
	STD	00030	19.52	35.18	25.05	00.115	1521.5							
	OBS	00030	19.44	35.19	25.07		1521.3							
	OBS	00033	17.94	35.41	25.62		1517.4							
	OBS	00035	16.99	35.52	25.93		1514.7							
	OBS	00037	16.70	35.52	26.00		1513.9							
	OBS	00041	16.73	35.61	26.06		1514.2							
	OBS	00045	16.02	35.46	26.11		1511.9							
	OBS	00047	15.40	35.12	25.99 *		1509.6							
	OBS	00048	15.01	35.28	26.20		1508.6							
	STD	00050	14.90	35.33	26.27	00.162	1508.3							
	OBS	00050	14.84	35.37	26.31		1508.2							
	OBS	00058	14.97	35.54	26.41		1508.9							
	OBS	00062	14.34	35.35	26.40		1506.7							
	OBS	00065	14.00	35.45	26.55		1505.8							
	STD	00075	13.91	35.41	26.54	00.203	1505.6							
	OBS	00078	13.88	35.40	26.54		1505.6							
	OBS	00080	13.87	35.40	26.54		1505.6							

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REFID 31 8408 YEAR 1974 BOTOP 00066 AIR TEMP 22.7 DIR HGT PER WIND-DIR 30 INST STD RECORDER TEN SQ 1309
CONSEC 0030 MONTH 08 SHIP EV WET BULB 21.0 30 2 2 WIND-SPD 17 TRACE DIR D 5 SQUARE 1
LAT 40 05.4N DAY 18 DATA USE 1 BAROMETR 1010.0 SEA WIND-FOR DURATION 00.3 2 SQUARE 02
LONG 072 25.3W HOUR 17.5 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 030 16 1 SQUARE 02

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.46	32.48	22.20	00.000	1525.7							
17.5	OBS	00000	22.46	32.48	22.20		1525.7							
	OBS	00001	22.47	32.48	22.20		1525.8							
	OBS	00007	21.75	33.53	23.19		1525.2							
	STD	00010	21.73	33.57	23.23	00.051	1525.3							
	OBS	00011	21.67	33.60	23.27		1525.2							
	OBS	00017	21.15	33.73	23.51		1524.0							
	STD	00020	20.40	33.60	23.61	00.096	1521.9							
	OBS	00021	20.03	33.53	23.65		1520.8							
	OBS	00023	15.87	32.75	24.07		1507.8							
	OBS	00025	11.56	32.56	24.80		1493.3							
	OBS	00027	11.05	33.15	25.35		1492.2							
	OBS	00029	11.15	33.16	25.34		1492.6							
	STD	00030	11.05	33.15	25.35	00.131	1492.3							
	OBS	00031	10.89	33.14	25.37		1491.7							
	OBS	00036	09.74	33.08	25.52		1487.6							
	OBS	00038	09.64	33.12	25.57		1487.3							
	STD	00050	09.28	33.10	25.61	00.181	1486.1							
	OBS	00050	09.18	33.10	25.62		1485.7							
	OBS	00052	08.72	33.18	25.76		1484.2							

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REFID 31 8406 YEAR 1974 BOTDP 00050 AIR TEMP 24.2 DIR HGT PER WIND-DIR 30 INST STU RECORDER TEN SQ 1309
CONSEC 0031 MONTH 08 SHIP EV WET BULB 22.6 30 0 2 WIND-SPD 11 TRACE DIR 0 5 SQUARE 1
LAT 40 19.5N DAY 18 DATA USE 1 BAROMETR 1011.9 SEA WIND-FDR DURATION 00.4 2 SQUARE 02
LONG 072 41.4W HOUR 19.5 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 031 20 1 SQUARE 02

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.45	32.16	21.96	00.000	1525.3							
19.5	OBS	00000	22.45	32.16	21.96		1525.3							
	OBS	00003	22.41	32.16	21.97		1525.3							
	OBS	00007	21.76	32.11	22.12		1523.6							
	STD	00010	20.67	32.09	22.39	00.057	1520.7							
	OBS	00011	19.93	32.08	22.58		1518.7							
	OBS	00014	16.05	32.42	23.78		1507.8							
	OBS	00018	12.37	32.27	24.42		1495.6							
	STD	00020	11.31	32.49	24.79	00.100	1492.2							
	OBS	00020	11.08	32.53	24.86		1491.5							
	OBS	00024	10.64	32.42	24.85		1489.8							
	OBS	00026	09.80	32.44	25.01		1486.8							
	OBS	00028	09.34	32.53	25.15		1485.2							
	STD	00030	09.25	32.63	25.25	00.129	1485.1							
	OBS	00033	09.14	32.75	25.36		1484.9							
	OBS	00040	09.11	32.75	25.36		1484.9							
	OBS	00042	09.11	32.76	25.37		1484.9							

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REFID 31 8406 YEAR 1974 BOTDP 00033 AIR TEMP 25.0 DIR HGT PER WIND-DIR 30 INST STU RECORDER TEN SQ 1309
CONSEC 0032 MONTH 08 SHIP EV WET BULB 22.5 30 0 2 WIND-SPD 02 TRACE DIR 0 5 SQUARE 1
LAT 40 35.1N DAY 18 DATA USE 1 BAROMETR 1012.0 SEA WIND-FDR DURATION 00.1 2 SQUARE 02
LONG 072 59.5W HOUR 22.2 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 032 16 1 SQUARE 02

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.20	31.18	21.29	00.000	1523.6							
22.2	OBS	00000	22.20	31.18	21.29		1523.6							
	OBS	00003	22.06	31.21	21.35		1523.3							
	OBS	00009	20.71	31.19	21.70		1519.8							
	STD	00010	20.38	31.20	21.79	00.063	1518.9							
	OBS	00011	19.59	31.22	22.01		1516.8							
	OBS	00013	18.87	31.34	22.29		1514.9							
	OBS	00015	18.46	31.43	22.45		1513.8							
	OBS	00019	17.42	31.54	22.79		1511.0							
	STD	00020	16.40	31.59	23.06	00.117	1507.9							
	OBS	00020	15.76	31.66	23.26		1506.1							
	OBS	00022	15.30	31.92	23.56		1504.9							
	OBS	00024	15.25	31.95	23.59		1504.9							
	OBS	00026	15.27	31.97	23.60		1505.0							

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REFID 31 8406 YEAR 1974 BOTDP 00033 AIR TEMP 23.8 DIR HGT PER WIND-DIR 21 INST STU RECORDER TEN SQ 1309
CONSEC 0033 MONTH 08 SHIP EV WET BULB 23.0 21 0 2 WIND-SPD 12 TRACE DIR 0 5 SQUARE 1
LAT 40 42.7N DAY 19 DATA USE 1 BAROMETR 1010.0 SEA WIND-FDR DURATION 00.1 2 SQUARE 02
LONG 072 27.3W HOUR 01.1 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 033 1 SQUARE 02

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	DXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.95	31.31	21.46	00.000	1523.1							
01.1	OBS	00000	21.95	31.31	21.46		1523.1							
	OBS	00005	21.85	31.26	21.46		1522.9							
	OBS	00007	21.30	31.25	21.59		1521.4							
	STD	00010	21.16	31.28	21.65	00.063	1521.1							
	OBS	00011	21.09	31.30	21.68		1521.0							
	OBS	00015	20.91	31.39	21.80		1520.7							
	OBS	00017	20.25	31.53	22.08		1519.0							
	STD	00020	19.33	31.74	22.47	00.120	1516.8							
	OBS	00020	19.14	31.78	22.55		1516.3							
	OBS	00024	18.88	31.84	22.66		1515.7							
	OBS	00026	18.65	31.93	22.74		1515.7							

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REFID 31 8408 YEAR 1974 BOTOP 00033 AIR TEMP 23.0 DIR HGT PER WIND-DIR 20 INST STD RECORDER TEN SQ 1309
CONSEC 0034 MONTH 08 SHIP EV WET BULB 22.8 20 1 3 WIND-SPD 15 TRACE DIR 0 5 SQUARE 1
LAT 40 52.6N DAY 19 DATA USE 1 BAROMETR 1012.8 SEA WIND-FOR DURATION 00.1 2 SQUARE 02
LONG 072 01.5W HOUR 03.6 AREA 05 CLOUD T/A CL/TR WEATHER XO ORIG 374 034 1 SQUARE 02

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	20.51	31.48	21.97	00.000	1519.4							
03.6	OBS	00000	20.51	31.48	21.97		1519.4							
	OBS	00005	20.27	31.58	22.11		1519.0							
	STD	00010	20.39	31.96	22.37	00.057	1519.8							
	OBS	00011	20.43	32.00	22.39		1520.0							
	OBS	00017	17.53	31.73	22.91		1511.5							
	STD	00020	15.70	31.94	23.49	00.106	1506.2							
	OBS	00020	15.15	32.06	23.70		1504.6							
	OBS	00022	14.02	32.38	24.18		1501.4							
	OBS	00024	13.39	32.23	24.19		1499.1							
	OBS	00026	12.12	32.39	24.56		1495.0							
	OBS	00028	11.89	32.52	24.71		1494.4							

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REFID 31 8408 YEAR 1974 BOTOP 00060 AIR TEMP 22.8 DIR HGT PER WIND-DIR 25 INST STD RECORDER TEN SQ 1309
CONSEC 0035 MONTH 08 SHIP EV WET BULB 20.5 00 0 X WIND-SPD 11 TRACE DIR 0 5 SQUARE 1
LAT 40 36.1N DAY 19 DATA USE 1 BAROMETR 1018.0 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 071 47.6W HOUR 05.7 AREA 05 CLOUD T/A CL/TR WEATHER XO ORIG 374 035 1 SQUARE 01

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	22.23	33.04	22.69	00.000	1525.8							
05.7	OBS	00000	22.23	33.04	22.69		1525.8							
	STD	00010	22.15	33.18	22.81	00.051	1525.9							
	OBS	00013	22.13	33.29	22.91		1526.0							
	OBS	00014	18.36	33.37	23.96		1515.8							
	STD	00020	11.96	32.43	24.62	00.093	1494.4							
	OBS	00020	11.60	32.42	24.68		1493.2							
	OBS	00022	10.69	32.53	24.93		1490.1							
	OBS	00028	10.28	32.71	25.14		1488.9							
	STD	00030	10.12	32.72	25.17	00.124	1488.4							
	OBS	00033	09.81	32.74	25.24		1487.3							
	OBS	00046	08.70	32.81	25.47		1483.5							
	STD	00050	08.66	32.85	25.51	00.177	1483.4							
	OBS	00050	08.65	32.85	25.51		1483.4							
	OBS	00052	08.63	32.86	25.52		1483.4							
	OBS	00054	08.63	32.87	25.53		1483.4							

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REFID 31 8408 YEAR 1974 BOTOP 00075 AIR TEMP 23.7 DIR HGT PER WIND-DIR 25 INST STJ RECORDER TEN SQ 1309
CONSEC 0036 MONTH 08 SHIP EV WET BULB 22.5 00 0 X WIND-SPD 10 TRACE DIR U 5 SQUARE 1
LAT 40 22.7N DAY 19 DATA USE 1 BAROMETR 1014.7 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 071 35.8W HOUR 07.9 AREA 05 CLOUD T/A CL/TR WEATHER X2 ORIG 374 036 1 SQUARE 01

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	OYNOPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SI33	PH
	STD	00000	21.89	32.78	22.59	00.000	1524.6							
07.9	OBS	00000	21.89	32.78	22.59		1524.6							
	OBS	00001	21.80	32.97	22.76		1524.6							
	OBS	00007	20.72	33.42	23.39		1522.4							
	OBS	00009	20.18	33.89	23.89		1521.5							
	STD	00010	20.10	33.96	23.97	00.046	1521.4							
	OBS	00011	20.02	34.07	24.07		1521.3							
	OBS	00015	20.43	33.96	23.88 •		1522.3							
	OBS	00018	18.69	33.80	24.20		1517.4							
	STD	00020	18.52	33.95	24.36	00.084	1517.1							
	OBS	00020	18.49	34.02	24.42		1517.1							
	OBS	00022	18.64	34.23	24.54		1517.8							
	OBS	00024	18.32	33.91	24.38 •		1516.5							
	OBS	00026	17.78	33.73	24.37		1514.8							
	OBS	00028	17.01	33.62	24.47		1512.4							
	STD	00030	15.99	32.95	24.19 •	00.120	1508.5							
	OBS	00032	14.43	32.90	24.50		1503.5							
	OBS	00033	12.64	33.49	25.31		1498.3							
	OBS	00035	12.62	33.47	25.30		1498.3							
	OBS	00037	12.32	33.33	25.25 •		1497.1							
	OBS	00039	11.33	33.32	25.43		1493.7							
	OBS	00043	10.88	33.57	25.70		1492.4							
	OBS	00047	10.65	33.42	25.63 •		1491.5							
	OBS	00048	10.38	33.59	25.81		1490.8							
	STD	00050	10.37	33.52	25.75 •	00.180	1490.6							
	OBS	00050	10.36	33.49	25.73		1490.6							
	OBS	00052	10.06	33.46	25.76		1489.5							
	OBS	00054	09.92	33.61	25.90		1489.2							
	OBS	00056	10.01	33.72	25.97		1489.7							
	OBS	00058	10.43	34.08	26.18		1491.7							
	STD	00075	11.10	34.08	26.06 •	00.233	1494.4							
	OBS	00075	11.10	34.06	26.05		1494.4							

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REFID 31 8408 YEAR 1974 BOTOP 00089 AIR TEMP 22.5 DIR HGT PER WIND-DIR 00 INST STJ RECORDER TEN SQ 1309
CONSEC 0037 MONTH 08 SHIP EV WET BULB 21.7 00 0 X WIND-SPD 00 TRACE DIR 0 5 SQUARE 1
LAT 40 06.6N DAY 19 DATA USE 1 BAROMETR 1015.1 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 071 23.2W HOUR 10.2 AREA 05 CLOUD T/A CL/TR WEATHER A4 ORIG 374 037 1 SQUARE 01

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	OYNOPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SI33	PH
	STD	00000	21.58	33.86	23.49	00.000	1525.0							
10.2	OBS	00000	21.58	33.86	23.49		1525.0							
	STD	00010	21.50	33.97	23.59	00.044	1525.1							
	OBS	00011	21.49	33.98	23.61		1525.1							
	OBS	00015	21.61	34.55	24.00		1526.2							
	OBS	00018	20.66	34.52	24.24		1523.7							
	STD	00020	20.63	34.52	24.25	00.084	1523.6							
	OBS	00020	20.47	34.47	24.25		1523.1							
	OBS	00022	19.59	34.18	24.26		1520.4							
	OBS	00024	18.89	34.15	24.42		1518.4							
	OBS	00028	17.75	33.98	24.57		1515.0							
	STD	00030	17.22	33.86	24.60	00.115	1513.3							
	OBS	00033	13.83	33.57	25.14		1502.4							
	OBS	00035	11.08	33.43	25.56		1492.8							
	OBS	00041	09.51	33.54	25.91		1487.4							
	OBS	00047	09.28	33.58	25.98		1486.7							
	OBS	00048	09.29	33.74	26.11		1487.0							
	STD	00050	09.46	33.82	26.15	00.171	1487.7							
	OBS	00050	09.56	33.88	26.17		1488.2							
	OBS	00052	09.88	33.99	26.20		1489.5							
	OBS	00054	10.31	34.04	26.17 •		1491.2							
	OBS	00058	10.40	34.02	26.14 •		1491.5							
	OBS	00067	10.43	34.30	26.35		1492.2							
	OBS	00069	10.79	34.52	26.46		1493.8							
	STD	00075	11.23	34.56	26.41 •	00.215	1495.4							
	OBS	00075	11.24	34.56	26.41		1495.5							
	OBS	00084	11.61	34.59	26.36 •		1497.0							

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REFID 31 8408	YEAR 1974	BOTDP 00426	AIR TEMP 24.2	DIR HGT PER	WIND-DIR 00	INST STD RECORDER	TEN SQ 1209
CONSEC 0038	MONTH 08	SHIP EV	WET BULB 24.0	00 0 X	WIND-SPD 00	TRACE DIR 0	5 SQUARE 3
LAT 39 56.1N	DAY 19	DATA USE 1	BAROMETR 1016.1	SEA	WIND-FOR	DURATION 00.3	2 SQUARE 80
LONG 071 13.3W	HOUR 11.8	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 37N 038 32	1 SQUARE 91

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SI03	PH
	STD	00000	23.65	35.29	23.98	00.000	1531.9							
11.8	OBS	00000	23.65	35.29	23.98		1531.9							
	OBS	00005	23.64	35.27	23.97		1532.0							
	STD	00010	23.73	35.52	24.13	00.039	1532.5							
	OBS	00011	23.75	35.56	24.16		1532.6							
	STD	00020	23.74	35.56	24.16	00.077	1532.8							
	OBS	00020	23.73	35.56	24.17		1532.7							
	OBS	00028	23.62	35.48	24.14 *		1532.5							
	STD	00030	22.37	35.39	24.43	00.113	1529.3							
	OBS	00031	21.14	35.34	24.73		1526.1							
	OBS	00035	18.94	35.39	25.35		1520.2							
	OBS	00039	18.32	35.56	25.64		1518.7							
	OBS	00041	18.19	35.57	25.68		1518.4							
	OBS	00043	17.48	35.46	25.77		1516.2							
	OBS	00046	16.85	35.60	26.03		1514.6							
	STD	00050	16.66	35.67	26.13	00.167	1514.2							
	OBS	00052	16.51	35.77	26.24		1513.9							
	OBS	00054	16.39	35.87	26.34		1513.7							
	OBS	00056	16.24	35.75	26.29 *		1513.1							
	OBS	00063	15.72	35.79	26.44		1511.7							
	OBS	00065	15.24	35.65	26.44		1510.0							
	OBS	00071	14.70	35.66	26.56		1508.4							
	STD	00075	14.65	35.72	26.62	00.209	1508.4							
	OBS	00075	14.65	35.72	26.62		1508.4							
	OBS	00080	14.71	35.75	26.63		1508.7							
	OBS	00084	14.13	35.58	26.63		1506.7							
	STD	00100	13.90	35.71	26.77	00.244	1506.4							
	OBS	00101	13.87	35.71	26.78		1506.3							
	STD	00125	13.09	35.64	26.89	00.275	1504.0							
	OBS	00125	13.07	35.64	26.89		1504.0							
	STD	00150	12.59	35.56	26.93	00.305	1502.7							
	OBS	00150	12.59	35.56	26.93		1502.6							
	OBS	00176	11.35	35.43	27.06		1498.6							
	STD	00200	10.89	35.39	27.11	00.360	1497.4							
	OBS	00202	10.84	35.38	27.12		1497.2							
	OBS	00225	10.35	35.32	27.16		1495.7							
	OBS	00245	09.74	35.22	27.19		1493.7							
	STD	00250	09.49	35.21	27.22	00.408	1492.9							
	OBS	00251	09.42	35.21	27.23		1492.7							
	OBS	00275	08.83	35.15	27.28		1490.8							
	STD	00300	08.31	35.13	27.35	00.450	1489.2							
	OBS	00300	08.31	35.13	27.35		1489.2							
	OBS	00350	06.72	35.07	27.53		1483.8							
	OBS	00369	06.42	35.02	27.53		1482.9							
	STD	00400	06.00	35.03	27.60	00.518	1481.7							
	OBS	00401	05.99	35.04	27.61		1481.7							
	OBS	00405	05.97	35.07	27.63		1481.7							

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REFID 31 8408	YEAR 1974	BOTDP 02195	AIR TEMP 24.8	DIR MGT PER	WIND-DIR 00	INST STD RECORDER	TEN SQ 1209
CONSEC 0039	MONTH 08	SHIP EV	WET BULB 22.8	00 0 X	WIND-SPD 00	TRACE DIR 0	5 SQUARE 3
LAT 39 41.0N	DAY 19	DATA USE 1	BAROMETR 1018.0	SEA	WIND-FOR	DURATION 01.5	2 SQUARE 80
LONG 071 01.1W	HOUR 14.0	AREA 05	CLOUD T/A	CL/TR	WEATHER X0	ORIG 37N 039	1 SQUARE 91

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OAYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.05	35.51	24.03	00.000	1533.1							
14.0	OBS	00000	24.05	35.51	24.03		1533.1							
	STD	00010	24.01	35.50	24.04	00.039	1533.2							
	OBS	00011	24.00	35.50	24.04		1533.2							
	STD	00020	23.97	35.46	24.03	00.078	1533.2							
	OBS	00020	23.96	35.48	24.04		1533.2							
	STD	00030	23.59	35.46	24.13	00.116	1532.4							
	OBS	00030	23.59	35.46	24.13		1532.4							
	OBS	00033	23.14	35.33	24.16		1531.3							
	OBS	00035	21.39	35.20	24.56		1526.7							
	OBS	00037	19.89	35.61	25.27		1523.2							
	OBS	00039	19.11	35.43	25.34		1520.8							
	OBS	00041	18.62	35.57	25.57		1519.6							
	OBS	00046	16.29	35.50	25.60		1518.7							
	STD	00050	17.28	35.37	25.75	00.177	1515.6							
	OBS	00050	17.15	35.34	25.76		1515.2							
	OBS	00052	16.88	35.52	25.96		1514.7							
	OBS	00056	16.75	35.55	26.01		1514.4							
	OBS	00061	16.23	35.69	26.24		1513.1							
	OBS	00063	16.19	35.89	26.41		1513.2							
	OBS	00071	15.79	35.93	26.53		1512.2							
	OBS	00073	15.68	35.83	26.48 *		1511.7							
	OBS	00074	15.16	35.54	26.37 *		1509.8							
	STD	00075	15.14	35.55	26.38	00.226	1509.7							
	OBS	00076	14.82	35.72	26.58		1509.0							
	OBS	00088	14.69	35.84	26.70		1508.9							
	STD	00100	14.44	35.84	26.76	00.264	1508.3							
	OBS	00101	14.41	35.84	26.77		1508.2							
	STD	00125	13.75	35.76	26.84	00.296	1506.3							
	OBS	00127	13.69	35.75	26.85		1506.2							
	STD	00150	13.25	35.69	26.89	00.327	1505.0							
	OBS	00151	13.19	35.68	26.90		1504.8							
	OBS	00164	12.62	35.60	26.95		1503.0							
	OBS	00177	12.37	35.58	26.99		1502.4							
	STD	00200	11.65	35.47	27.04	00.364	1500.1							
	OBS	00200	11.64	35.47	27.04		1500.1							
	OBS	00217	11.28	35.42	27.07		1499.1							
	OBS	00221	11.02	35.37	27.08		1498.1							
	OBS	00226	10.86	35.36	27.10		1497.6							
	STD	00250	10.38	35.30	27.14	00.436	1496.3							
	OBS	00254	10.27	35.29	27.15		1495.9							
	OBS	00277	09.66	35.22	27.20		1494.0							
	STD	00300	09.21	35.18	27.24	00.463	1492.6							
	OBS	00303	09.14	35.17	27.25		1492.4							
	OBS	00350	06.26	35.13	27.36		1489.8							
	STD	00400	07.60	35.09	27.43	00.565	1488.1							
	OBS	00406	07.50	35.09	27.44		1487.8							
	OBS	00451	06.75	35.06	27.52		1485.6							
	STD	00500	06.04	35.03	27.59	00.630	1483.5							
	OBS	00501	06.02	35.03	27.59		1483.5							
	OBS	00552	05.59	35.03	27.65		1482.6							
	STD	00600	05.32	35.03	27.68	00.684	1482.2							
	OBS	00604	05.29	35.03	27.69		1482.2							
	OBS	00651	05.06	35.03	27.71		1482.0							
	STD	00700	04.84	35.00	27.72	00.732	1481.9							
	OBS	00700	04.84	35.00	27.72		1481.9							
	OBS	00750	04.78	35.01	27.73		1482.5							
	STD	00800	04.71	35.01	27.74	00.779	1483.0							
	OBS	00807	04.69	35.01	27.74		1483.1							
	OBS	00850	04.51	35.00	27.75		1483.0							
	STD	00900	04.44	35.00	27.76	00.824	1483.6							
	OBS	00902	04.44	35.00	27.76		1483.6							
	OBS	00951	04.37	35.00	27.77		1484.1							
	OBS	00973	04.33	34.99	27.76		1484.3							
	STD	01000	04.30	34.99	27.77	00.868	1484.6							
	OBS	01000	04.30	34.99	27.77		1484.6							
	OBS	01086	04.19	35.00	27.79		1485.6							

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REFID 31 8408	YEAR 1974	BOTOP 02437	AIR TEMP 26.5	DIR HGT PER	WIND-DIR 33	INST SIG RECORDER	TEN SQ 1209
CONSEC 0040	MONTH 08	SHIP EV	WET BULB 26.0	00 0 A	WIND-SPD 00	TRACE DIR 0	5 SQUARE 3
LAT 39 26.8N	DAY 19	DATA USE 1	BAROMETR 1016.0	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 80
LONG 070 49.8W	HOUR 17.2	AREA 05	CLOUD T/A	CL/TR	WEATHER 40	DRIG 374 040	1 SQUARE 90

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.58	35.16	23.91	00.000	1531.6							
17.2	OBS	00000	23.58	35.16	23.91		1531.6							
	OBS	00001	23.60	35.16	23.90		1531.7							
	STD	00010	23.45	35.15	23.94	00.040	1531.4							
	OBS	00011	23.43	35.15	23.94		1531.4							
	STD	00020	23.28	35.45	24.21	00.079	1531.5							
	OBS	00020	23.27	35.46	24.22		1531.5							
	STD	00030	23.12	35.51	24.31	00.115	1531.3							
	OBS	00030	23.12	35.51	24.31		1531.3							
	OBS	00031	23.06	35.51	24.32		1531.2							
	OBS	00035	22.42	35.46	24.47		1529.6							
	OBS	00037	20.96	35.49	24.90		1525.9							
	OBS	00039	20.05	35.90	25.45		1524.0							
	OBS	00041	19.90	35.93	25.52		1523.6							
	OBS	00043	19.53	35.89	25.58		1522.6							
	OBS	00045	19.43	35.93	25.64		1522.4							
	OBS	00046	19.02	35.98	25.78		1521.3							
	OBS	00048	17.95	35.87	25.97		1518.2							
	STD	00050	17.77	35.91	26.05	00.172	1517.7							
	OBS	00050	17.70	35.92	26.07		1517.6							
	OBS	00052	17.58	35.90	26.08		1517.2							
	OBS	00056	16.79	35.87	26.25		1514.9							
	STD	00075	16.35	36.12	26.54	00.216	1514.2							
	OBS	00076	16.32	36.13	26.56		1514.1							
	OBS	00097	15.99	36.13	26.64		1513.5							
	OBS	00099	15.76	36.11	26.67		1512.8							
	STD	00100	15.76	36.11	26.67	00.252	1512.8							
	OBS	00101	15.77	36.11	26.67		1512.8							
	STD	00125	15.17	36.05	26.76	00.287	1511.3							
	OBS	00125	15.16	36.05	26.76		1511.2							
	STD	00150	14.35	35.88	26.81	00.319	1508.9							
	OBS	00151	14.32	35.88	26.82		1508.8							
	OBS	00176	14.16	35.93	26.89		1508.7							
	STD	00200	13.62	35.79	26.90	00.382	1507.2							
	OBS	00202	13.56	35.78	26.90		1507.0							
	OBS	00226	12.88	35.68	26.96		1505.0							
	STD	00250	12.02	35.52	27.01	00.441	1502.3							
	OBS	00251	12.00	35.52	27.01		1502.2							
	OBS	00258	11.86	35.51	27.03		1501.9							
	OBS	00277	11.23	35.40	27.06		1499.8							
	STD	00300	10.62	35.34	27.13	00.494	1498.0							
	OBS	00301	10.58	35.34	27.13		1497.9							
	OBS	00350	09.28	35.18	27.23		1493.7							
	STD	00400	08.44	35.13	27.33	00.587	1491.3							
	OBS	00400	08.43	35.13	27.33		1491.3							
	OBS	00455	07.58	35.09	27.43		1488.9							
	STD	00500	06.77	35.07	27.53	00.661	1486.5							
	OBS	00501	06.74	35.07	27.53		1486.4							
	OBS	00543	06.17	35.04	27.58		1484.7							
	STD	00600	05.63	35.04	27.65	00.719	1483.5							
	OBS	00629	05.36	35.04	27.69		1482.9							
	OBS	00631	05.37	35.05	27.69		1483.0							
	OBS	00651	05.27	35.05	27.70		1482.9							
	STD	00700	04.95	35.03	27.73	00.769	1482.4							
	OBS	00700	04.95	35.03	27.73		1482.4							
	OBS	00750	04.80	35.03	27.74		1482.6							
	STD	00800	04.69	35.02	27.75	00.815	1483.0							
	OBS	00801	04.69	35.02	27.75		1483.0							
	OBS	00852	04.64	35.03	27.76		1483.6							
	STD	00900	04.54	35.02	27.77	00.859	1484.0							
	OBS	00902	04.53	35.02	27.77		1484.0							
	OBS	00951	04.42	35.01	27.77		1484.4							
	OBS	00966	04.39	35.00	27.77		1484.5							
	STD	01000	04.35	35.00	27.77	00.903	1484.9							
	OBS	01000	04.35	35.00	27.77		1484.9							
	OBS	01078	04.21	35.00	27.79		1485.6							
	OBS	01091	04.21	35.01	27.79		1485.8							

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REFID 31 8408	YEAR 1974	BOTOP 02423	AIR TEMP 26.6	DIR MOT PER	WIND-DIR 18	INST STD RECORDER	TEN SQ 1209
CONSEC 0041	MONTH 08	SHIP EV	WET BULB 25.1	09 0 A	WIND-SPD 02	TRACE DIR 0	5 SQUARE 3
LAT 39 30.5N	DAY 19	DATA USE 1	BAROMETR 1018.0	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 80
LONG 070 29.5W	HOUR 19.8	AREA 05	CLOUD T/A	CL/TR	WEATHER A1	ORIG 37N 041 27	1 SQUARE 90

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.92	35.39	23.68	00.000	1535.1							
19.8	OBS	00000	24.92	35.39	23.68		1535.1							
	OBS	00001	24.96	35.39	23.67		1535.2							
	OBS	00003	23.99	35.52	24.06		1533.1							
	STD	00010	23.91	35.54	24.10	00.040	1533.0							
	OBS	00011	23.89	35.54	24.10		1533.0							
	STD	00020	23.70	35.54	24.16	00.076	1532.6							
	OBS	00020	23.68	35.54	24.16		1532.6							
	OBS	00028	23.46	35.66	24.32		1532.3							
	STD	00030	23.08	35.66	24.43	00.115	1531.4							
	OBS	00030	23.08	35.66	24.43		1531.4							
	OBS	00033	22.38	35.73	24.68		1529.8							
	OBS	00035	21.52	35.79	24.97		1527.7							
	OBS	00041	19.65	35.93	25.58		1522.9							
	OBS	00045	19.10	35.97	25.75		1521.5							
	STD	00050	18.28	35.92	25.93	00.171	1519.2							
	OBS	00050	18.14	35.91	25.95		1518.8							
	OBS	00052	17.64	35.86	26.04		1517.3							
	OBS	00069	16.44	35.98	26.42		1514.2							
	STD	00075	16.24	36.00	26.48	00.217	1513.7							
	OBS	00076	16.18	36.00	26.49		1513.5							
	OBS	00097	15.85	36.03	26.59		1512.9							
	STD	00100	15.64	36.01	26.62	00.255	1512.3							
	OBS	00101	15.55	36.00	26.64		1512.0							
	STD	00125	14.70	35.87	26.73	00.291	1509.5							
	OBS	00125	14.68	35.87	26.73		1509.5							
	STD	00150	14.09	35.81	26.81	00.324	1507.9							
	OBS	00151	14.04	35.80	26.81		1507.8							
	OBS	00176	13.30	35.68	26.88		1505.6							
	STD	00200	12.63	35.58	26.93	00.386	1503.6							
	OBS	00200	12.62	35.58	26.94		1503.6							
	OBS	00226	11.85	35.49	27.02		1501.3							
	STD	00250	11.34	35.42	27.06	00.442	1499.8							
	OBS	00251	11.31	35.42	27.06		1499.7							
	OBS	00275	10.53	35.30	27.11		1497.2							
	STD	00300	09.77	35.22	27.19	00.493	1494.8							
	OBS	00301	09.73	35.22	27.19		1494.6							
	OBS	00350	08.87	35.13	27.26		1492.1							
	STD	00400	08.24	35.11	27.34	00.581	1490.6							
	OBS	00400	08.23	35.11	27.35		1490.5							
	OBS	00451	07.28	35.08	27.46		1487.7							
	STD	00500	06.52	35.04	27.54	00.654	1485.4							
	OBS	00500	06.52	35.04	27.54		1485.4							
	OBS	00554	05.84	35.04	27.63		1483.6							
	STD	00600	05.37	35.03	27.68	00.711	1482.5							
	OBS	00603	05.35	35.03	27.68		1482.4							
	OBS	00651	05.18	35.03	27.70		1482.5							
	STD	00700	04.93	35.02	27.72	00.759	1482.3							
	OBS	00700	04.93	35.02	27.72		1482.3							
	OBS	00754	04.74	35.01	27.73		1482.4							
	STD	00800	04.66	35.01	27.74	00.805	1482.8							
	OBS	00805	04.65	35.01	27.74		1482.9							
	OBS	00852	04.62	35.01	27.75		1483.5							
	STD	00900	04.51	35.01	27.76	00.850	1483.9							
	OBS	00900	04.51	35.01	27.76		1483.9							
	OBS	00955	04.44	35.01	27.77		1484.5							
	STD	01000	04.39	35.01	27.77	00.894	1485.0							
	OBS	01000	04.39	35.01	27.77		1485.0							
	OBS	01018	04.33	34.99	27.76		1485.1							
	OBS	01091	04.21	35.01	27.79		1485.8							

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REFID 31 8408	YEAR 1974	GOTOP 01854	AIR TEMP 24.6	OIR MGT PER	WIND-DIR 03	INST SEA RECORDER	TEN SQ 1209
CUNSEC 0042	MONTH 08	SHIP EV	WET BULB 21.2	00 0 A	WIND-SPD 00	TRACE DIR 0	5 SQUARE 3
LAT 39 46.0N	DAY 19	DATA USE 1	BAROMETR 1017.7	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 80
LONG 070 30.8W	HOUR 22.3	AREA 05	CLOUD F/A	CL/TR	WEATHER XO	ORIG 374 042	1 SQUARE 90

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.03	35.56	24.08	00.000	1533.1							
22.3	OBS	00000	24.03	35.56	24.08		1533.1							
	STD	00010	23.91	35.58	24.12	00.038	1533.0							
	OBS	00013	23.89	35.58	24.13		1533.0							
	STD	00020	23.87	35.59	24.15	00.076	1533.1							
	OBS	00020	23.86	35.59	24.15		1533.1							
	STD	00030	23.56	35.56	24.22	00.114	1532.5							
	OBS	00030	23.56	35.56	24.22		1532.5							
	OBS	00031	23.12	35.62	24.39		1531.5							
	OBS	00033	22.69	35.50	24.42		1530.3							
	OBS	00037	20.82	35.48	24.93		1525.5							
	OBS	00041	19.48	35.44	25.25		1521.9							
	OBS	00043	18.85	35.65	25.57		1520.4							
	OBS	00046	18.32	35.54	25.62		1518.8							
	STD	00050	17.71	35.52	25.76	00.174	1517.1							
	OBS	00050	17.51	35.51	25.80		1516.5							
	OBS	00052	16.74	35.49	25.97		1514.2							
	OBS	00058	16.42	35.58	26.11		1513.5							
	OBS	00065	16.17	35.79	26.33		1513.1							
	OBS	00071	15.29	35.76	26.51		1510.4							
	STD	00075	15.24	35.80	26.56	00.221	1510.4							
	OBS	00076	15.21	35.82	26.57		1510.3							
	STD	00100	14.51	35.83	26.74	00.257	1508.5							
	OBS	00101	14.48	35.83	26.74		1508.4							
	STD	00125	14.00	35.80	26.82	00.289	1507.2							
	OBS	00125	13.99	35.80	26.82		1507.2							
	STD	00150	13.33	35.71	26.89	00.320	1505.3							
	OBS	00151	13.28	35.70	26.90		1505.2							
	OBS	00176	12.47	35.58	26.97		1502.7							
	STD	00200	11.72	35.48	27.03	00.378	1500.4							
	OBS	00200	11.71	35.48	27.04		1500.4							
	OBS	00228	10.97	35.38	27.10		1498.1							
	STD	00250	10.42	35.32	27.14	00.430	1496.4							
	OBS	00252	10.36	35.31	27.15		1496.2							
	OBS	00277	09.86	35.25	27.19		1494.7							
	STD	00300	09.19	35.16	27.25	00.477	1492.6							
	OBS	00301	09.15	35.18	27.25		1492.4							
	OBS	00352	08.11	35.11	27.36		1489.3							
	STD	00400	07.49	35.09	27.44	00.557	1487.6							
	OBS	00404	07.42	35.09	27.45		1487.4							
	OBS	00453	06.59	35.07	27.55		1485.0							
	STD	00500	05.95	35.04	27.61	00.621	1483.2							
	OBS	00501	05.93	35.04	27.61		1483.1							
	OBS	00552	05.41	35.03	27.67		1481.8							
	STD	00600	05.19	35.03	27.70	00.673	1481.7							
	OBS	00602	05.18	35.03	27.70		1481.7							
	OBS	00651	04.93	35.03	27.73		1481.5							
	STD	00700	04.81	35.02	27.73	00.720	1481.8							
	OBS	00702	04.81	35.02	27.73		1481.8							
	OBS	00750	04.73	35.02	27.74		1482.3							
	STD	00800	04.58	35.02	27.76	00.764	1482.5							
	OBS	00801	04.58	35.02	27.76		1482.5							
	OBS	00850	04.48	35.01	27.76		1482.9							
	STD	00900	04.40	35.00	27.76	00.808	1483.4							
	OBS	00900	04.40	35.00	27.76		1483.4							
	OBS	00953	04.33	35.00	27.77		1484.0							
	STD	01000	04.26	35.01	27.79	00.851	1484.5							
	OBS	01001	04.26	35.01	27.79		1484.5							
	OBS	01054	04.16	34.99	27.78		1485.0							
	OBS	01076	04.13	34.99	27.79		1485.2							
	OBS	01086	04.13	35.00	27.79		1485.4							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BOTOP 00550	AIR TEMP 23.6	OIR MGT PER	WIND-DIR 00	INST STU RECORDER		IEN SQ 1209
CUNSEC 0043	MONTH 08	SHIP EV	WET BULB 21.1	00 0 X	WIND-SPO 00	TRACE OIA	D	5 SQUARE 3
LAT 39 58.6N	OAY 20	DATA USE 1	BAROMETR	SEA	WIND-FOR	DURATION	00.6	2 SQUARE 80
LONG 070 31.0W	HOUR 01.0	AREA 05	CLOUD T/A	CL/IR	WEATHER X0	ORIG 374 043		1 SQUARE 90

LASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SI33	PH
	STD	00000	24.14	35.36	23.89	00.000	1533.2							
01.0	OBS	00000	24.14	35.36	23.89		1533.2							
	STD	00010	23.94	35.35	23.95	00.040	1532.8							
	OBS	00011	23.92	35.35	23.95		1532.8							
	STD	00020	23.86	35.52	24.10	00.079	1533.0							
	OBS	00020	23.85	35.53	24.11		1533.0							
	OBS	00028	23.64	35.58	24.21		1532.7							
	STD	00030	23.53	35.60	24.25	00.117	1532.5							
	OBS	00031	23.31	35.61	24.33		1532.0							
	OBS	00037	21.97	35.61	24.71		1528.7							
	OBS	00039	21.09	35.60	24.94		1526.4							
	OBS	00041	19.88	35.30	25.04		1522.8							
	OBS	00043	18.75	35.50	25.49		1519.9							
	STD	00050	18.69	35.83	25.75	00.176	1520.3							
	OBS	00050	18.67	35.86	25.78		1520.3							
	OBS	00052	18.59	35.73	25.70 •		1519.9							
	OBS	00054	17.63	35.72	25.93		1517.2							
	OBS	00056	17.16	35.72	26.05		1515.8							
	OBS	00058	16.68	35.40	25.91 •		1514.0							
	OBS	00060	15.67	35.57	26.28		1511.2							
	STD	00075	15.36	35.80	26.53	00.224	1510.7							
	OBS	00076	15.29	35.83	26.56		1510.6							
	OBS	00082	15.04	35.78	26.58		1509.8							
	STD	00100	15.00	35.94	26.71	00.260	1510.2							
	OBS	00101	14.98	35.94	26.72		1510.1							
	STD	00125	14.15	35.80	26.79	00.294	1507.7							
	OBS	00125	14.13	35.80	26.79		1507.6							
	STD	00150	13.49	35.71	26.86	00.325	1505.8							
	OBS	00150	13.49	35.71	26.86		1505.8							
	OBS	00176	12.83	35.64	26.94		1504.0							
	OBS	00187	12.44	35.55	26.95		1502.7							
	STD	00200	11.73	35.47	27.03	00.384	1500.4							
	OBS	00200	11.70	35.47	27.03		1500.3							
	OBS	00228	10.78	35.38	27.13		1497.4							
	OBS	00234	10.63	35.35	27.13		1496.9							
	STD	00250	10.10	35.30	27.19	00.435	1495.2							
	OBS	00251	10.06	35.30	27.19		1495.1							
	OBS	00275	09.28	35.18	27.23		1492.5							
	OBS	00288	08.89	35.16	27.28		1491.2							
	OBS	00290	08.53	35.12	27.31		1489.9							
	OBS	00296	08.37	35.14	27.35		1489.4							
	OBS	00299	08.12	35.11	27.36		1488.4							
	STD	00300	08.12	35.11	27.36	00.478	1488.4							
	OBS	00301	08.05	35.13	27.39		1488.2							
	OBS	00352	06.79	35.07	27.52		1484.1							
	OBS	00391	06.01	35.04	27.60		1481.6							
	STD	00400	05.86	35.05	27.63	00.543	1481.1							
	OBS	00401	05.84	35.05	27.63		1481.1							
	OBS	00438	05.61	35.04	27.65		1480.8							
	OBS	00447	05.63	35.07	27.68		1481.0							

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REFID 31 8408 YEAR 1974 BOTDP 00106 AIR TEMP 23.0 DIR HGT PER WIND-DIR 33 INST STD RECORDER TEN SQ 1309
CONSEC 0044 MONTH 08 SHIP EV WET BULB 21.5 00 0 X WIND-SPD 00 TRACE DIR 0 5 SQUARE 1
LAT 40 14.0N DAY 20 DATA USE 1 BAROMETR 1010.9 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 070 29.8W HOUR 03.4 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 044 1 SQUARE 00

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.62	34.26	23.78	00.000	1525.6							
03.4	OBS	00000	21.62	34.26	23.78		1525.6							
	OBS	00001	21.38	34.24	23.83		1525.0							
	OBS	00007	21.33	34.24	23.85		1524.9							
	STD	00010	20.74	34.10	23.90	00.041	1523.2							
	OBS	00013	20.03	34.00	24.01		1521.3							
	OBS	00018	18.90	34.04	24.33		1518.2							
	STD	00020	18.29	34.07	24.51	00.078	1516.6							
	OBS	00022	17.39	34.08	24.74		1514.0							
	OBS	00026	17.06	33.96	24.72		1512.9							
	OBS	00028	16.06	33.85	24.87		1509.8							
	STD	00030	15.34	33.76	24.96	00.110	1507.4							
	OBS	00032	14.22	33.64	25.11		1503.7							
	OBS	00033	13.07	33.87	25.52		1500.2							
	OBS	00039	12.60	33.73	25.51		1498.6							
	OBS	00041	11.57	33.60	25.60		1494.9							
	OBS	00043	10.88	33.69	25.80		1492.6							
	STD	00050	10.56	33.74	25.89	00.162	1491.6							
	OBS	00050	10.55	33.75	25.90		1491.6							
	OBS	00058	10.65	33.92	26.02		1492.3							
	OBS	00060	10.95	33.97	26.00		1493.5							
	STD	00075	10.56	33.94	26.05	00.213	1492.3							
	OBS	00075	10.55	33.94	26.05		1492.3							
	OBS	00077	10.49	33.97	26.08		1492.1							
	OBS	00079	10.49	33.97	26.08		1492.1							
	OBS	00082	10.82	34.26	26.25		1493.7							
	OBS	00084	11.43	34.45	26.29		1496.2							
	OBS	00092	11.82	34.46	26.22 *		1497.7							

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REFID 31 8408 YEAR 1974 BOTDP 00060 AIR TEMP 23.2 DIR HGT PER WIND-DIR 00 INST STD RECORDER TEN SQ 1309
CONSEC 0045 MONTH 08 SHIP EV WET BULB 21.8 00 0 X WIND-SPD 00 TRACE DIR 0 5 SQUARE 1
LAT 40 35.2N DAY 20 DATA USE 1 BAROMETR 1019.3 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 070 30.0W HOUR 05.7 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 045 1 SQUARE 00

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.92	34.01	23.51	00.000	1526.1							
05.7	OBS	00000	21.92	34.01	23.51		1526.1							
	OBS	00003	21.81	34.34	23.79		1526.2							
	STD	00010	21.60	34.48	23.95	00.042	1526.0							
	OBS	00015	21.44	34.59	24.08		1525.8							
	OBS	00018	20.69	34.35	24.10		1523.5							
	STD	00020	20.53	34.11	23.96 *	00.081	1522.9							
	OBS	00020	20.36	34.01	23.93 *		1522.3							
	OBS	00024	17.98	33.61	24.23		1515.2							
	OBS	00028	16.67	33.65	24.58		1511.4							
	STD	00030	15.83	33.47	24.63	00.118	1508.6							
	OBS	00031	14.67	33.34	24.78		1504.8							
	OBS	00035	11.47	33.20	25.31		1493.9							
	OBS	00037	11.57	33.50	25.53		1494.7							
	OBS	00041	10.47	33.11	25.42 *		1490.3							
	OBS	00043	10.04	33.27	25.62		1489.0							
	STD	00050	09.82	33.31	25.69	00.174	1488.4							
	OBS	00052	09.79	33.33	25.71		1488.3							
	OBS	00059	09.84	33.38	25.74		1488.7							

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REFID 31 8408 YEAR 1974 BOTOP 00049 AIR TEMP 25.4 DIR HGT PER WIND-DIR 00 INST STD RECORDER TEN SQ 1309
CONSEC 0046 MONTH 08 SHIP EV WET BULB 20.7 00 0 X WIND-SPD 00 TRACE DIR 0 5 SQUARE 1
LAT 40 53.4N DAY 20 DATA USE 1 BAROMETR 1017.5 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 070 31.9W HOUR 07.8 AREA 05 CLOUD T/A CL/TR WEATHER XX ORIG 374 046 1 SQUARE 00

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	20.17	31.94	22.41	00.000	1519.0							
07.8	OBS	00000	20.17	31.94	22.41		1519.0							
	OBS	00001	19.59	31.91	22.54		1517.4							
	OBS	00003	18.00	31.89	22.92		1512.9							
	OBS	00005	15.51	32.38	23.87		1505.9							
	OBS	00009	15.24	32.42	23.96		1505.1							
	STD	00010	14.87	32.43	24.04	00.047	1504.0							
	OBS	00011	14.23	32.44	24.19		1501.9							
	OBS	00013	13.26	32.46	24.40		1498.8							
	OBS	00014	12.87	32.60	24.58		1497.7							
	OBS	00016	12.84	32.59	24.58		1497.6							
	OBS	00018	12.49	32.56	24.62		1496.4							
	STD	00020	12.36	32.64	24.71	00.082	1496.1							
	OBS	00020	12.34	32.66	24.73		1496.0							
	OBS	00024	12.69	32.90	24.85		1497.6							
	OBS	00028	12.20	32.90	24.94		1496.0							
	OBS	00029	11.51	32.79	24.99		1493.5							
	STD	00030	11.48	32.79	24.99	00.113	1493.4							
	OBS	00033	11.11	32.86	25.11		1492.2							
	OBS	00044	11.01	32.89	25.15		1492.1							

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REFID 31 8408 YEAR 1974 BOTOP 00033 AIR TEMP 22.0 DIR HGT PER WIND-DIR 00 INST STD RECORDER TEN SQ 1309
CONSEC 0047 MONTH 08 SHIP EV WET BULB 20.0 00 0 X WIND-SPD 00 TRACE DIR 0 5 SQUARE 1
LAT 41 04.4N DAY 20 DATA USE 1 BAROMETR SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 071 06.6W HOUR 10.8 AREA 05 CLOUD T/A CL/TR WEATHER XX ORIG 374 047 20 1 SQUARE 11

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	20.71	31.90	22.24	00.000	1520.5							
10.8	OBS	00000	20.71	31.90	22.24		1520.5							
	OBS	00007	16.95	32.19	22.91		1516.0							
	STD	00010	17.47	32.19	23.27	00.051	1511.7							
	OBS	00011	16.63	32.19	23.47		1509.2							
	OBS	00017	13.45	32.21	24.17		1499.2							
	OBS	00019	12.53	32.51	24.58		1496.5							
	STD	00020	12.39	32.51	24.61	00.091	1496.0							
	OBS	00020	12.28	32.51	24.63		1495.6							
	STD	00030	11.91	32.53	24.71	00.124	1494.5							
	OBS	00030	11.89	32.54	24.72		1494.5							
	OBS	00032	11.82	32.61	24.79		1494.4							

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REFID 31 8408 YEAR 1974 BOTOP 00042 AIR TEMP DIR HGT PER WIND-DIR 27 INST STD RECORDER TEN SQ 1309
CONSEC 0048 MONTH 08 SHIP EV WET BULB 00 0 X WIND-SPD 02 TRACE DIR 0 5 SQUARE 1
LAT 41 01.6N DAY 20 DATA USE 1 BAROMETR 1023.0 SEA WIND-FOR DURATION 00.1 2 SQUARE 00
LONG 071 40.6W HOUR 13.0 AREA 05 CLOUD T/A CL/TR WEATHER XX ORIG 374 048 1 SQUARE 11

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	21.23	31.86	22.07	00.000	1521.8							
13.0	OBS	00000	21.23	31.86	22.07		1521.8							
	OBS	00007	21.03	31.87	22.13		1521.4							
	STD	00010	20.18	31.84	22.34	00.056	1519.1							
	OBS	00011	19.64	31.84	22.47		1517.6							
	OBS	00015	18.05	31.87	22.89		1513.2							
	STD	00020	15.91	31.92	23.42	00.106	1506.8							
	OBS	00020	15.33	31.95	23.57		1505.0							
	OBS	00022	13.92	32.05	23.95		1500.6							
	OBS	00024	13.03	32.24	24.27		1497.9							
	STD	00030	12.90	32.29	24.34	00.147	1497.6							
	OBS	00032	12.84	32.31	24.36		1497.5							
	OBS	00034	12.31	32.26	24.43		1495.7							
	OBS	00038	11.91	32.46	24.66		1494.6							
	OBS	00040	11.85	32.51	24.71		1494.5							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BUTOP 02761	AIR TEMP 23.2	OIR HGT PER	WIND-OIR 01	INST STO RECORDER	TEN SQ 1209
CONSEC 0049	MONTH 08	SHIP EV	WEI BULB 22.0	00 0 X	WIND-SPD 05	TRACE DIR 0	5 SQUARE 3
LAT 37 44.8N	DAY 10	DATA USE 1	BAROMETR 1016.5	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 62
LONG 072 44.7W	HOUR 04.0	AREA 05	CLOUD T/A	CL/TR	WEATHER X6	ORIG 374 049	1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STO	00000	24.96	34.98	23.36	00.000	1534.7							
04.0	OBS	00000	24.96	34.98	23.36		1534.7							
	STO	00010	24.98	34.98	23.35	00.045	1534.9							
	OBS	00011	24.98	34.98	23.35		1534.9							
	OBS	00015	24.83	35.00	23.41		1534.7							
	OBS	00018	24.02	35.34	23.91		1533.2							
	STO	00020	23.92	35.49	24.05	00.087	1533.1							
	OBS	00022	23.33	35.52	24.25		1531.8							
	OBS	00024	22.49	35.33	24.35		1529.5							
	OBS	00026	22.02	35.42	24.55		1528.4							
	OBS	00028	20.94	35.29	24.75		1525.5							
	STO	00030	20.08	35.34	25.02	00.122	1523.2							
	OBS	00030	20.08	35.34	25.02		1523.2							
	OBS	00031	19.81	35.28	25.04		1522.5							
	OBS	00037	17.86	34.97	25.30		1516.7							
	OBS	00039	16.63	34.88	25.53		1512.9							
	OBS	00041	16.18	34.86	25.62		1511.6							
	OBS	00046	15.12	34.90	25.89		1508.4							
	STO	00050	14.92	34.94	25.96	00.172	1507.9							
	OBS	00050	14.88	34.98	26.00		1507.8							
	OBS	00052	14.73	35.14	26.16		1507.6							
	OBS	00054	14.67	35.24	26.25		1507.5							
	OBS	00067	14.49	35.41	26.42		1507.4							
	OBS	00069	14.31	35.33	26.39		1506.7							
	OBS	00074	14.70	35.59	26.51		1508.4							
	STO	00075	14.70	35.59	26.51	00.217	1508.4							
	OBS	00076	14.72	35.61	26.52		1508.5							
	STO	00100	14.34	35.76	26.71	00.254	1507.9							
	OBS	00101	14.33	35.76	26.72		1507.8							
	STO	00125	14.08	35.79	26.80	00.287	1507.5							
	OBS	00127	14.06	35.79	26.80		1507.4							
	STO	00150	13.82	35.80	26.86	00.319	1507.1							
	OBS	00151	13.80	35.80	26.86		1507.0							
	OBS	00176	13.34	35.65	26.84		1505.7							
	STO	00200	12.58	35.57	26.94	00.379	1503.4							
	OBS	00200	12.57	35.57	26.94		1503.4							
	OBS	00228	11.87	35.48	27.00		1501.4							
	STO	00250	11.22	35.38	27.05	00.436	1499.3							
	OBS	00250	11.19	35.38	27.06		1499.2							
	OBS	00275	10.29	35.26	27.12		1496.3							
	STO	00300	09.64	35.18	27.18	00.487	1494.2							
	OBS	00301	09.60	35.18	27.18		1494.1							
	OBS	00352	08.57	35.11	27.29		1491.0							
	STO	00400	07.57	35.07	27.41	00.572	1487.9							
	OBS	00400	07.55	35.07	27.42		1487.9							
	OBS	00451	06.68	35.05	27.52		1485.3							
	STO	00500	06.05	34.99	27.56	00.640	1483.5							
	OBS	00503	06.01	34.99	27.56		1483.4							
	OBS	00550	05.59	35.01	27.63		1482.5							
	STO	00600	05.26	35.01	27.67	00.696	1482.0							
	OBS	00601	05.25	35.01	27.67		1482.0							
	OBS	00651	04.99	35.01	27.71		1481.7							
	STO	00700	04.82	35.00	27.72	00.744	1481.8							
	OBS	00700	04.82	35.00	27.72		1481.8							
	OBS	00750	04.69	34.99	27.72		1482.1							
	STO	00800	04.55	34.99	27.74	00.790	1482.4							
	OBS	00801	04.55	34.99	27.74		1482.4							
	OBS	00850	04.46	34.99	27.75		1482.8							
	STO	00900	04.37	34.98	27.75	00.835	1483.3							
	OBS	00902	04.37	34.98	27.75		1483.3							
	OBS	00955	04.29	34.97	27.75		1483.8							
	STO	01000	04.22	34.96	27.75	00.881	1484.3							
	OBS	01000	04.22	34.96	27.75		1484.3							
	OBS	01082	04.13	34.96	27.76		1485.3							
	OBS	01088	04.14	34.97	27.77		1485.4							

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REFID 31 8408	YEAR 1974	BOIOP 02926	AIR TEMP		DIR MGT PER	WIND-DIR 05	INSI STO RECORDER		IEN SQ 1209
CONSEC 0050	MONTH 08	SHIP EV	WEI BULB		07 & 3	WIND-SPD 28	TRACE DIR	0	5 SQUARE 3
LAT 38 09.8N	DAY 10	DATA USE 1	BAROMETR 1012.8		SEA	WIND-FOR	DURATION	01.1	2 SQUARE 82
LONG 072 15.7W	HOUR 09.6	AREA 05	CLOUD T/A		CL/TR	WEATHER x1	ORIG 37& 050		1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STO	00000	24.48	33.66	22.51	00.000	1532.1							
09.6	OBS	00000	24.48	33.66	22.51		1532.1							
	OBS	00007	24.34	34.73	23.36		1533.1							
	OBS	00009	23.99	35.36	23.94		1533.0							
	STD	00010	23.93	35.35	23.95	00.047	1532.8							
	OBS	00011	23.78	35.34	23.98		1532.5							
	OBS	00015	22.99	35.33	24.21		1530.6							
	OBS	00016	22.10	35.16	24.33		1528.2							
	OBS	00018	20.82	35.14	24.67		1524.8							
	STD	00020	19.99	34.97	24.76	00.082	1522.4							
	OBS	00020	19.61	34.91	24.81		1521.3							
	OBS	00022	18.49	34.82	25.03		1518.1							
	OBS	00026	17.81	34.90	25.26		1516.2							
	OBS	00028	16.78	34.64	25.31		1512.9							
	STO	00030	15.22	34.69	25.70	00.110	1508.2							
	OBS	00030	15.22	34.69	25.70		1508.2							
	OBS	00033	15.03	34.64	25.71		1507.6							
	OBS	00035	14.56	34.58	25.76		1506.1							
	OBS	00037	14.38	34.79	25.96		1505.8							
	OBS	00039	14.36	34.62	25.84		1505.5							
	OBS	00045	13.73	34.85	26.15		1503.8							
	STO	00050	13.79	34.94	26.20	00.151	1504.2							
	OBS	00050	13.80	34.95	26.21		1504.3							
	STO	00075	14.27	35.53	26.56	00.193	1506.9							
	OBS	00076	14.30	35.56	26.57		1507.1							
	OBS	00093	13.86	35.71	26.78		1506.1							
	STO	00100	13.83	35.73	26.81	00.228	1506.2							
	OBS	00101	13.83	35.74	26.81		1506.2							
	OBS	00103	13.71	35.75	26.85		1505.8							
	OBS	00106	13.70	35.74	26.84		1505.9							
	STO	00125	13.09	35.65	26.89	00.259	1504.0							
	OBS	00127	13.04	35.64	26.90		1503.9							
	STO	00150	12.84	35.62	26.92	00.289	1503.6							
	OBS	00151	12.82	35.62	26.93		1503.5							
	OBS	00176	12.46	35.59	26.98		1502.7							
	STO	00200	11.51	35.45	27.05	00.345	1499.6							
	OBS	00200	11.49	35.45	27.05		1499.6							
	OBS	00226	10.20	35.26	27.14		1495.2							
	STO	00250	09.59	35.22	27.21	00.395	1493.3							
	OBS	00250	09.57	35.22	27.22		1493.2							
	OBS	00275	08.92	35.17	27.28		1491.1							
	STO	00300	08.35	35.12	27.34	00.438	1489.3							
	OBS	00301	08.32	35.12	27.34		1489.2							
	OBS	00352	07.38	35.09	27.46		1486.4							
	STO	00400	06.53	35.06	27.55	00.508	1483.8							
	OBS	00402	06.49	35.06	27.56		1483.7							
	OBS	00453	05.88	35.05	27.63		1482.1							
	STO	00500	05.49	35.04	27.67	00.564	1481.3							
	OBS	00501	05.48	35.04	27.67		1481.3							
	OBS	00552	05.18	35.04	27.71		1480.9							
	STO	00600	04.89	35.03	27.73	00.611	1480.5							
	OBS	00601	04.89	35.03	27.73		1480.5							
	OBS	00651	04.75	35.03	27.75		1480.8							
	STO	00700	04.66	35.01	27.74	00.655	1481.2							
	OBS	00702	04.66	35.01	27.74		1481.2							
	OBS	00752	04.55	35.02	27.76		1481.6							
	STO	00800	04.44	35.02	27.78	00.696	1481.9							
	OBS	00801	04.44	35.02	27.78		1482.0							
	OBS	00850	04.33	35.00	27.77		1482.3							
	STO	00900	04.26	35.00	27.78	00.740	1482.8							
	OBS	00902	04.26	35.00	27.78		1482.9							
	OBS	00953	04.22	35.00	27.78		1483.5							
	STO	01000	04.18	35.00	27.79	00.782	1484.2							
	OBS	01001	04.18	35.00	27.79		1484.2							
	OBS	01082	04.10	35.00	27.80		1485.2							
	OBS	01084	04.10	35.00	27.80		1485.2							

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REFID 31 8408	YEAR 1974	BDTDP 02743	AIR TEMP 23.9	DIR HGI PER	WIND-DIR 33	INSI STD RECORDER	TEN SQ 1209
CONSEC 0051	MONTH 08	SHIP EV	WET BULB 20.8	22 2 2	WIND-SPD 23	TRACE DEP D	5 SQUARE 3
LAT 36 20.8N	DAY 10	DATA USE 1	BAROMETR 1016.2	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 33.5W	HOUR 12.4	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 051 10	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.22	33.37	22.37	00.000	1531.1							
12.4	OBS	00000	24.22	33.37	22.37		1531.1							
	STD	00010	24.25	33.44	22.41	00.055	1531.4							
	OBS	00011	24.25	33.45	22.42		1531.5							
	OBS	00013	24.33	33.88	22.72		1532.2							
	OBS	00016	24.24	34.64	23.32		1532.9							
	OBS	00018	22.76	35.18	24.16		1529.9							
	STD	00020	21.15	34.90	24.40	00.100	1525.4							
	OBS	00020	20.64	34.87	24.51		1524.0							
	OBS	00022	19.98	35.16	24.91		1522.6							
	OBS	00024	20.07	35.05	24.80 *		1522.8							
	OBS	00026	19.31	35.23	25.14		1520.9							
	OBS	00028	18.83	35.16	25.21		1519.5							
	STD	00030	17.99	35.07	25.35	00.131	1517.0							
	OBS	00030	17.99	35.07	25.35		1517.0							
	OBS	00031	17.09	34.99	25.50		1514.3							
	OBS	00037	14.60	34.70	25.85		1506.4							
	OBS	00039	13.64	34.39	25.81 *		1502.9							
	OBS	00041	13.51	34.76	26.12		1502.9							
	OBS	00044	14.37	35.24	26.31		1506.4							
	OBS	00046	14.47	35.21	26.27 *		1506.7							
	OBS	00048	14.09	35.16	26.31		1505.5							
	STD	00050	14.10	35.19	26.33	00.174	1505.6							
	OBS	00052	14.12	35.24	26.37		1505.7							
	STD	00075	14.52	35.71	26.64	00.214	1508.0							
	OBS	00076	14.54	35.74	26.66		1508.1							
	STD	00100	14.77	36.01	26.82	00.247	1509.6							
	OBS	00103	14.79	36.03	26.83		1509.7							
	STD	00125	14.81	36.05	26.84	00.279	1510.1							
	OBS	00125	14.81	36.05	26.84		1510.1							
	STD	00150	14.80	36.07	26.86	00.310	1510.5							
	OBS	00153	14.78	36.07	26.86		1510.5							
	OBS	00176	14.51	36.00	26.87		1509.9							
	STD	00200	13.63	35.83	26.93	00.371	1507.3							
	OBS	00200	13.62	35.83	26.93		1507.2							
	OBS	00226	12.89	35.66	26.94		1505.0							
	STD	00250	11.79	35.51	27.04	00.429	1501.5							
	OBS	00250	11.75	35.50	27.04		1501.3							
	OBS	00275	10.81	35.37	27.12		1498.3							
	STD	00300	09.76	35.25	27.20	00.479	1494.8							
	OBS	00301	09.73	35.24	27.20		1494.7							
	OBS	00331	08.94	35.18	27.29		1492.1							
	OBS	00350	08.36	35.12	27.33		1490.2							
	STD	00400	07.33	35.08	27.46	00.562	1487.0							
	OBS	00402	07.28	35.08	27.46		1486.9							
	OBS	00451	06.49	35.06	27.56		1484.5							
	STD	00500	05.74	35.04	27.64	00.623	1482.3							
	OBS	00501	05.72	35.04	27.64		1482.3							
	OBS	00550	05.31	35.03	27.68		1481.4							
	STD	00600	05.05	35.02	27.71	00.673	1481.1							
	OBS	00601	05.05	35.02	27.71		1481.1							
	OBS	00651	04.88	35.02	27.73		1481.3							
	STD	00700	04.73	35.01	27.74	00.719	1481.5							
	OBS	00700	04.73	35.01	27.74		1481.5							
	OBS	00750	04.64	35.00	27.74		1481.9							
	STD	00800	04.52	35.00	27.75	00.764	1482.2							
	OBS	00803	04.51	35.00	27.75		1482.2							
	OBS	00850	04.40	35.00	27.76		1482.6							
	STD	00900	04.35	34.99	27.76	00.808	1483.2							
	OBS	00900	04.35	34.99	27.76		1483.2							
	OBS	00951	04.28	34.99	27.77		1483.7							
	STD	01000	04.22	34.99	27.78	00.852	1484.3							
	OBS	01001	04.22	34.99	27.78		1484.3							
	OBS	01082	04.08	34.97	27.78		1485.1							

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REFID 31 8408	YEAR 1974	BOTOP 02560	AIR TEMP 22.9	DIR HGT PER	WIND-DIR 32	INST STU RECORDER	TEN SQ 1209
CONSEC 0052	MONTH 08	SHIP EV	WET BULB 22.2	03 6 6	WIND-SPD 26	TRACE DIR 0	5 SQUARE 3
LAT 38 09.7N	DAY 10	DATA USE 1	BAROMETR 1017.3	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 51.3W	HOUR 19.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 052	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.24	35.55	24.30	00.000	1531.2							
19.5	OBS	00000	23.24	35.55	24.30		1531.2							
	STD	00010	23.23	35.55	24.30	00.036	1531.3							
	OBS	00011	23.23	35.55	24.30		1531.4							
	OBS	00016	23.08	35.58	24.37		1531.1							
	STD	00020	19.07	35.78	25.62	00.066	1520.8							
	OBS	00020	18.51	35.81	25.78		1519.3							
	OBS	00028	16.83	35.98	26.32		1514.7							
	STD	00030	16.28	36.07	26.52	00.086	1513.2							
	OBS	00030	16.28	36.07	26.52		1513.2							
	OBS	00031	15.92	35.90	26.48 •		1511.9							
	OBS	00033	15.59	36.03	26.65		1511.1							
	OBS	00035	15.64	36.00	26.62 •		1511.2							
	STD	00050	15.16	35.99	26.72	00.115	1509.9							
	OBS	00052	15.11	35.99	26.73		1509.8							
	STD	00075	15.01	36.09	26.82	00.147	1510.0							
	OBS	00076	15.01	36.09	26.83		1510.0							
	STD	00100	15.00	36.11	26.84	00.179	1510.4							
	OBS	00101	15.00	36.11	26.84		1510.4							
	STD	00125	15.06	36.12	26.84	00.210	1511.0							
	OBS	00125	15.06	36.12	26.84		1511.0							
	STD	00150	15.08	36.13	26.84	00.242	1511.5							
	OBS	00151	15.08	36.13	26.84		1511.5							
	OBS	00176	15.11	36.14	26.84		1512.0							
	STD	00200	15.15	36.15	26.84	00.305	1512.6							
	OBS	00200	15.15	36.15	26.84		1512.6							
	OBS	00226	15.17	36.16	26.85		1513.1							
	STD	00250	15.19	36.17	26.85	00.369	1513.5							
	OBS	00252	15.19	36.17	26.85		1513.6							
	OBS	00275	15.15	36.16	26.85		1513.8							
	STD	00300	15.15	36.15	26.84	00.434	1514.2							
	OBS	00301	15.15	36.15	26.84		1514.2							
	OBS	00352	15.16	36.16	26.85		1515.1							
	OBS	00357	15.16	36.16	26.85		1515.2							
	OBS	00380	13.99	35.89	26.89		1511.5							
	OBS	00383	13.44	35.74	26.89		1509.6							
	OBS	00387	13.26	35.69	26.89		1509.0							
	OBS	00395	12.27	35.59	27.01		1505.6							
	STD	00400	12.12	35.56	27.02	00.557	1505.1							
	OBS	00400	12.08	35.56	27.03		1505.0							
	OBS	00402	11.99	35.57	27.05		1504.8							
	OBS	00455	09.92	35.26	27.19		1497.9							
	OBS	00466	09.52	35.21	27.22		1496.6							
	OBS	00471	09.26	35.19	27.24		1495.7							
	STD	00500	08.27	35.12	27.35	00.656	1492.3							
	OBS	00503	08.15	35.11	27.36		1491.9							
	OBS	00550	07.04	35.07	27.49		1488.3							
	STD	00600	06.13	35.04	27.59	00.728	1485.5							
	OBS	00601	06.12	35.04	27.59		1485.5							
	OBS	00653	05.58	35.02	27.64		1484.2							
	STD	00700	05.21	35.01	27.68	00.783	1483.4							
	OBS	00702	05.20	35.01	27.68		1483.4							
	OBS	00752	04.94	35.00	27.70		1483.2							
	STD	00800	04.76	35.01	27.73	00.832	1483.3							
	OBS	00801	04.76	35.01	27.73		1483.3							
	OBS	00850	04.65	34.99	27.73		1483.6							
	STD	00900	04.57	34.99	27.74	00.879	1484.1							
	OBS	00902	04.56	34.99	27.74		1484.1							
	OBS	00953	04.40	34.98	27.75		1484.3							
	STD	01000	04.31	34.97	27.75	00.925	1484.7							
	OBS	01001	04.31	34.97	27.75		1484.7							
	OBS	01020	04.30	34.96	27.74		1484.9							
	OBS	01082	04.22	34.97	27.76		1485.7							
	OBS	01086	04.22	34.97	27.76		1485.7							

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REFID 31 8408	YEAR 1974	BOTDP 02303	AIR TEMP 21.4	DIR WGT PER	WIND-DIR 00	INST SIG RECORDER	TEN SQ 1209
CONSEC 0053	MONTH 08	SHIP EV	WET BULB 21.4	00 0 X	WIND-SPD 00	TRACE DIR 0	5 SQUARE 3
LAT 37 54.1N	DAY 09	DATA USE 1	BAROMETR 1021.2	SEA	WIND-FOR	DURATION 02.0	2 SQUARE 62
LONG 073 10.0W	HOUR 11.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X6	ORIG 374 053 22	1 SQUARE 73

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.85	35.01	23.42	00.000	1534.5							
11.5	OBS	00000	24.85	35.01	23.42		1534.5							
	STD	00010	24.83	35.11	23.49	00.044	1534.7							
	OBS	00011	24.83	35.12	23.50		1534.7							
	OBS	00013	24.41	35.00	23.54		1533.6							
	OBS	00016	23.38	35.16	23.96		1531.4							
	STD	00020	23.32	35.18	23.99	00.086	1531.3							
	OBS	00020	23.31	35.18	24.00		1531.3							
	OBS	00022	22.06	34.96	24.19		1527.9							
	OBS	00024	20.17	34.94	24.69		1522.9							
	OBS	00028	18.94	35.07	25.11		1519.7							
	STD	00030	18.70	35.01	25.13	00.120	1519.0							
	OBS	00033	18.11	34.93	25.21		1517.3							
	OBS	00039	16.93	34.88	25.46		1513.8							
	OBS	00041	15.86	34.95	25.76		1510.7							
	OBS	00044	15.83	34.99	25.80		1510.7							
	OBS	00046	15.52	34.94	25.83		1509.7							
	OBS	00048	14.75	34.93	25.99		1507.3							
	STD	00050	14.70	34.94	26.01	00.169	1507.2							
	OBS	00050	14.68	34.95	26.02		1507.1							
	OBS	00052	14.59	34.97	26.06		1506.9							
	OBS	00054	13.31	34.90	26.27		1502.7							
	OBS	00056	13.94	35.00	26.22 *		1504.9							
	STD	00075	14.16	35.37	26.46	00.214	1506.4							
	OBS	00076	14.18	35.40	26.48		1506.5							
	STD	00100	14.46	35.72	26.67	00.252	1508.2							
	OBS	00101	14.47	35.73	26.67		1508.3							
	STD	00125	13.90	35.70	26.77	00.286	1506.8							
	OBS	00125	13.89	35.70	26.77		1506.7							
	STD	00150	13.49	35.67	26.83	00.319	1505.8							
	OBS	00151	13.44	35.66	26.83		1505.6							
	OBS	00176	12.50	35.53	26.92		1502.7							
	STD	00200	11.93	35.46	26.98	00.379	1501.1							
	OBS	00200	11.92	35.46	26.98		1501.1							
	OBS	00226	11.10	35.33	27.03		1498.5							
	STD	00250	10.29	35.24	27.11	00.433	1495.8							
	OBS	00254	10.15	35.22	27.12		1495.4							
	OBS	00275	09.61	35.15	27.15		1493.7							
	STD	00300	09.13	35.10	27.20	00.482	1492.2							
	OBS	00301	09.10	35.10	27.20		1492.1							
	OBS	00350	08.17	35.05	27.31		1489.4							
	STD	00400	07.18	35.01	27.42	00.566	1486.3							
	OBS	00400	07.17	35.01	27.42		1486.3							
	OBS	00451	06.39	35.01	27.53		1484.1							
	STD	00500	05.86	34.99	27.58	00.632	1482.7							
	OBS	00501	05.84	34.99	27.59		1482.7							
	OBS	00550	05.47	34.99	27.63		1482.0							
	STD	00600	05.04	34.98	27.66	00.686	1481.0							
	OBS	00602	05.02	34.98	27.66		1481.0							
	OBS	00651	04.84	34.98	27.68		1481.0							
	STD	00700	04.79	34.98	27.69	00.737	1481.7							
	OBS	00702	04.79	34.98	27.69		1481.7							
	OBS	00750	04.67	34.97	27.71		1482.0							
	STD	00800	04.60	34.97	27.72	00.785	1482.5							
	OBS	00805	04.59	34.97	27.72		1482.6							
	OBS	00850	04.49	34.97	27.73		1482.9							
	STD	00900	04.39	34.96	27.73	00.832	1483.3							
	OBS	00900	04.39	34.96	27.73		1483.3							
	OBS	00951	04.31	34.95	27.73		1483.8							
	STD	01000	04.24	34.94	27.73	00.879	1484.3							
	OBS	01003	04.24	34.94	27.73		1484.4							
	OBS	01057	04.17	34.94	27.74		1485.0							
	OBS	01076	04.17	34.95	27.75		1485.3							

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REFID 31 8408	YEAR 1974	BOTOP 02813	AIR TEMP 24.4	DIR HGT PER	WIND-DIR 26	INST STD RECORDER	TEN SQ 1209
CONSEC 0054	MONTH 08	SHIP EV	WET BULB 22.2	24 0 2	WIND-SPD 05	TRACE DIR 0	5 SQUARE 3
LAT 37 55.8N	DAY 09	DATA USE 1	BAROMETR 1019.0	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 02
LONG 072 32.9W	HOUR 20.8	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 054 26	1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNOPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PN
	STD	00000	24.95	34.82	23.24	00.000	1534.5							
20.8	OBS	00000	24.95	34.82	23.24		1534.5							
	OBS	00003	24.90	34.92	23.33		1534.6							
	OBS	00009	24.68	35.10	23.53		1534.3							
	STD	00010	24.29	35.19	23.72	00.044	1533.5							
	OBS	00011	23.80	35.32	23.96		1532.5							
	OBS	00013	23.47	35.46	24.17		1531.9							
	OBS	00016	22.25	35.30	24.39		1528.7							
	OBS	00018	20.47	35.03	24.68		1523.7							
	STD	00020	19.96	35.15	24.90	00.080	1522.5							
	OBS	00020	19.77	35.16	24.96		1522.0							
	OBS	00022	19.38	35.06	24.99		1520.9							
	STD	00030	16.70	35.12	25.70	00.107	1513.3							
	OBS	00030	16.70	35.12	25.70		1513.3							
	OBS	00031	16.15	35.00	25.73		1511.5							
	OBS	00035	15.83	35.22	25.97		1510.8							
	OBS	00041	15.84	35.64	26.29		1511.5							
	OBS	00048	15.19	35.69	26.48		1509.6							
	STD	00050	15.29	35.80	26.54	00.146	1510.1							
	OBS	00050	15.33	35.84	26.56		1510.3							
	OBS	00056	15.60	35.96	26.59		1511.4							
	OBS	00061	15.30	35.93	26.64		1510.5							
	STD	00075	14.98	35.95	26.73	00.182	1509.7							
	OBS	00076	14.95	35.96	26.74		1509.7							
	STD	00100	14.99	36.09	26.83	00.214	1510.3							
	OBS	00101	14.99	36.09	26.83		1510.4							
	STD	00125	15.06	36.12	26.84	00.246	1511.0							
	OBS	00125	15.06	36.12	26.84		1511.0							
	STD	00150	15.11	36.15	26.85	00.277	1511.6							
	OBS	00151	15.11	36.15	26.85		1511.6							
	OBS	00177	15.15	36.16	26.85		1512.2							
	STD	00200	15.15	36.17	26.86	00.340	1512.6							
	OBS	00200	15.15	36.17	26.86		1512.6							
	OBS	00226	14.91	36.10	26.86		1512.2							
	STD	00250	13.98	35.88	26.89	00.403	1509.3							
	OBS	00250	13.94	35.87	26.89		1509.2							
	OBS	00275	12.91	35.66	26.94		1505.9							
	OBS	00282	12.69	35.61	26.95		1505.2							
	STD	00300	11.41	35.40	27.02	00.462	1500.9							
	OBS	00301	11.32	35.38	27.03		1500.5							
	OBS	00350	09.59	35.20	27.20		1494.9							
	STD	00400	08.38	35.12	27.33	00.559	1491.1							
	OBS	00400	08.36	35.12	27.33		1491.0							
	OBS	00453	07.20	35.07	27.47		1487.4							
	STD	00500	06.40	35.04	27.55	00.632	1484.9							
	OBS	00501	06.37	35.04	27.56		1484.9							
	OBS	00550	05.72	35.03	27.63		1483.0							
	STD	00600	05.30	35.01	27.67	00.688	1482.1							
	OBS	00601	05.29	35.01	27.67		1482.1							
	OBS	00655	05.04	35.01	27.70		1482.0							
	STD	00700	04.85	35.00	27.71	00.737	1481.9							
	OBS	00700	04.85	35.00	27.71		1481.9							
	OBS	00754	04.81	35.02	27.73		1482.7							
	STD	00800	04.73	35.03	27.75	00.783	1483.2							
	OBS	00801	04.73	35.03	27.75		1483.2							
	OBS	00850	04.60	35.01	27.75		1483.4							
	STD	00900	04.46	35.00	27.76	00.828	1483.7							
	OBS	00900	04.46	35.00	27.76		1483.7							
	OBS	00951	04.40	35.00	27.76		1484.3							
	STD	01000	04.26	34.98	27.76	00.872	1484.5							
	OBS	01001	04.26	34.98	27.76		1484.5							
	OBS	01084	04.15	34.98	27.78		1485.4							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BOTOP 03109	AIR TEMP 24.5	AIR HGT PEA	WIND-DIR 13	INSI SID RECORDER	TEN SQ 1209
CONSEC 0055	MONTH 08	SHIP EV	WET BULB 24.5	00 0 X	WIND-SPD 12	TRACE DIR 0	5 SQUARE 3
LAT 37 51.8N	DAY 09	DATA USE 1	BAROMETR 1017.2	SEA	WIND-FOR	DURATION 01.1	2 SQUARE 62
LONG 072 18.0W	HOUR 23.8	AREA 05	CLOUD T/A	CL/TR	WEATHER X5	ORIG 376 055	1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	24.85	34.04	22.68	00.000	1533.4							
23.8	OBS	00000	24.85	34.04	22.68		1533.4							
	OBS	00007	24.81	34.01	22.67		1533.4							
	OBS	00009	24.60	34.43	23.05		1533.4							
	STD	00010	24.31	34.82	23.43	00.048	1533.1							
	OBS	00011	23.91	39.29	23.91		1532.7							
	OBS	00015	23.42	35.22	24.00		1531.5							
	OBS	00016	22.55	35.18	24.22		1529.3							
	OBS	00018	20.85	35.13	24.65		1524.9							
	STD	00020	20.39	35.18	24.82	00.086	1523.7							
	OBS	00020	20.23	35.19	24.86		1523.3							
	OBS	00022	19.98	35.16	24.91		1522.6							
	OBS	00026	18.98	35.15	25.16		1519.9							
	OBS	00028	18.56	34.91	25.08 *		1518.5							
	STD	00030	17.30	34.94	25.41	00.115	1514.9							
	OBS	00030	17.30	34.94	25.41		1514.9							
	OBS	00031	16.38	34.99	25.67		1512.2							
	OBS	00033	16.25	35.12	25.80		1512.0							
	OBS	00035	16.32	35.25	25.88		1512.4							
	OBS	00037	16.20	35.06	25.77 *		1511.8							
	OBS	00039	15.86	34.97	25.77		1510.7							
	OBS	00043	15.63	34.97	25.83		1510.0							
	OBS	00045	14.90	35.16	26.14		1508.0							
	STD	00050	14.93	35.25	26.20	00.159	1508.3							
	OBS	00050	14.95	35.27	26.21		1508.4							
	OBS	00056	15.37	35.51	26.30		1510.1							
	OBS	00058	15.20	35.45	26.29		1509.5							
	STD	00075	14.86	35.68	26.54	00.201	1509.0							
	OBS	00076	14.82	35.69	26.56		1508.9							
	STD	00100	14.25	35.73	26.71	00.237	1507.5							
	OBS	00103	14.11	35.73	26.75		1507.1							
	OBS	00110	13.71	35.69	26.80		1505.9							
	STD	00125	13.53	35.69	26.84	00.270	1505.5							
	OBS	00125	13.52	35.69	26.84		1505.5							
	STD	00150	12.72	35.60	26.93	00.301	1503.2							
	OBS	00151	12.68	35.60	26.94		1503.0							
	OBS	00176	12.21	35.56	27.00		1501.8							
	STD	00200	11.39	35.45	27.07	00.356	1499.2							
	OBS	00200	11.38	35.45	27.07		1499.2							
	OBS	00226	10.39	35.31	27.14		1495.9							
	STD	00250	09.79	35.24	27.20	00.406	1494.0							
	OBS	00250	09.77	35.24	27.20		1494.0							
	OBS	00275	09.16	35.20	27.27		1492.1							
	STD	00300	08.65	35.17	27.33	00.449	1490.5							
	OBS	00301	08.62	35.17	27.33		1490.4							
	OBS	00350	07.58	35.11	27.44		1487.2							
	STD	00400	06.78	35.06	27.52	00.522	1484.8							
	OBS	00400	06.77	35.06	27.52		1484.8							
	OBS	00451	06.08	35.06	27.61		1482.9							
	STD	00500	05.53	35.03	27.66	00.580	1481.5							
	OBS	00501	05.52	35.03	27.66		1481.4							
	OBS	00550	05.31	35.05	27.70		1481.4							
	STD	00600	05.03	35.02	27.71	00.629	1481.0							
	OBS	00601	05.02	35.02	27.71		1481.0							
	OBS	00655	04.82	35.03	27.74		1481.1							
	STD	00700	04.66	35.01	27.74	00.674	1481.2							
	OBS	00702	04.65	35.01	27.74		1481.2							
	OBS	00750	04.53	35.00	27.75		1481.5							
	STD	00800	04.46	35.00	27.76	00.718	1482.0							
	OBS	00801	04.46	35.00	27.76		1482.0							
	OBS	00850	04.39	34.99	27.76		1482.5							
	STD	00900	04.31	34.99	27.77	00.761	1483.0							
	OBS	00900	04.31	34.99	27.77		1483.0							
	OBS	00951	04.26	34.99	27.77		1483.7							
	STD	01000	04.17	34.98	27.77	00.805	1484.1							
	OBS	01001	04.17	34.98	27.77		1484.1							
	OBS	01067	04.10	34.98	27.78		1484.9							
	OBS	01088	04.10	34.98	27.78		1485.3							

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REFID 31 8408	YEAR 1974	BDTDP 01867	AIR TEMP 21.9	DIR HGT PER	WIND-DIR 01	INST STD RECORDER	TEN SQ 1209
CONSEC 0056	MONTH 08	SHIP EV	WET BULB 17.1	07 2 2	WIND-SPD 16	TRACE DIR 0	5 SQUARE 3
LAT 37 53.8N	DAY 12	DATA USE 1	BAROMETR 1022.8	SEA	WIND-FOR	DURATION 01.7	2 SQUARE 62
LONG 073 09.2W	HOUR 00.2	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 056	1 SQUARE 73

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.94	35.01	23.69	00.000	1532.3							
00.2	OBS	00000	23.94	35.01	23.69		1532.3							
	STD	00010	23.95	35.01	23.68	00.042	1532.5							
	OBS	00011	23.95	35.01	23.68		1532.5							
	OBS	00016	23.95	35.01	23.68		1532.6							
	STD	00020	21.42	35.20	24.55	00.080	1526.5							
	OBS	00020	21.01	35.25	24.70		1525.5							
	OBS	00022	19.89	35.45	25.15		1522.7							
	OBS	00024	19.61	35.57	25.32		1522.1							
	OBS	00026	17.47	35.52	25.82		1516.0							
	STD	00030	16.42	35.30	25.90	00.108	1512.7							
	OBS	00030	16.42	35.30	25.90		1512.7							
	OBS	00031	16.16	35.65	26.23		1512.3							
	OBS	00035	16.29	35.92	26.41		1513.1							
	OBS	00046	16.09	36.01	26.52		1512.8							
	OBS	00048	15.75	36.01	26.60		1511.8							
	STD	00050	15.71	36.03	26.63	00.144	1511.7							
	OBS	00050	15.69	36.04	26.64		1511.7							
	OBS	00054	15.42	36.01	26.67		1510.8							
	STD	00075	15.01	36.07	26.81	00.177	1510.0							
	OBS	00078	14.98	36.08	26.83		1509.9							
	STD	00100	15.04	36.13	26.85	00.209	1510.5							
	OBS	00101	15.04	36.13	26.85		1510.6							
	STD	00125	15.08	36.14	26.85	00.240	1511.1							
	OBS	00127	15.08	36.14	26.85		1511.1							
	STD	00150	15.12	36.15	26.85	00.271	1511.6							
	OBS	00151	15.12	36.15	26.85		1511.7							
	OBS	00176	15.15	36.17	26.86		1512.2							
	STD	00200	15.16	36.17	26.86	00.334	1512.6							
	OBS	00200	15.16	36.17	26.86		1512.6							
	OBS	00226	15.18	36.17	26.85		1513.1							
	STD	00250	15.15	36.16	26.85	00.398	1513.4							
	OBS	00250	15.15	36.16	26.85		1513.4							
	OBS	00275	15.01	36.11	26.84		1513.3							
	OBS	00288	14.44	35.98	26.87		1511.5							
	STD	00300	13.98	35.89	26.90	00.462	1510.1							
	OBS	00301	13.91	35.88	26.90		1509.9							
	OBS	00310	13.40	35.77	26.93		1508.3							
	OBS	00327	12.13	35.55	27.01		1504.0							
	OBS	00352	10.73	35.34	27.11		1499.2							
	OBS	00367	10.30	35.29	27.15		1497.9							
	STD	00400	08.93	35.14	27.26	00.569	1493.2							
	OBS	00400	08.90	35.14	27.26		1493.1							
	OBS	00451	07.80	35.10	27.40		1489.7							
	STD	00500	06.81	35.06	27.51	00.647	1486.6							
	OBS	00501	06.78	35.06	27.52		1486.5							
	OBS	00552	06.14	35.04	27.59		1484.8							
	STD	00600	05.64	35.03	27.64	00.707	1483.5							
	OBS	00601	05.63	35.03	27.64		1483.5							
	OBS	00651	05.20	35.02	27.69		1482.6							
	STD	00700	04.94	35.01	27.71	00.758	1482.3							
	OBS	00700	04.94	35.01	27.71		1482.3							
	OBS	00752	04.77	35.01	27.73		1482.5							
	STD	00800	04.63	35.01	27.75	00.804	1482.7							
	OBS	00801	04.63	35.01	27.75		1482.7							
	OBS	00850	04.55	35.00	27.75		1483.2							
	STD	00900	04.42	34.98	27.75	00.849	1483.5							
	OBS	00900	04.42	34.98	27.75		1483.5							
	OBS	00951	04.35	34.99	27.76		1484.0							
	OBS	00977	04.30	34.97	27.75		1484.2							
	STD	01000	04.29	34.98	27.76	00.894	1484.6							
	OBS	01001	04.29	34.98	27.76		1484.6							
	OBS	01080	04.15	34.97	27.77		1485.3							
	OBS	01088	04.15	34.97	27.77		1485.5							

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REFID 31 8408	YEAR 1974	BGTDP 02230	AIR TEMP 23.7	DIR MGT PER		WIND-DIR 35	INST STO RECORDER		IEN SJ 1209		
CONSEC 0057	MONTH 08	SHIP EV	WET BULB 21.7	23 3 4		WIND-SPD 18	TRACE DIR	D	5 SQUARE 3		
LAT 37 58.4N	DAY 12	DATA USE 1	BAROMETR 1021.9	SEA		WIND-FOR	DURATION	00.6	2 SQUARE 62		
LONG 073 14.8W	HOUR 08.2	AREA 05	CLOUD T/A	CL/TR		WEATHER XO	ORIG 374 057		1 SQUARE 73		

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.87	35.11	23.78	00.000	1532.2							
06.2	OBS	00000	23.87	35.11	23.78		1532.2							
	OBS	00005	23.85	35.11	23.79		1532.3							
	STD	00010	23.87	35.11	23.78	00.041	1532.4							
	OBS	00010	23.87	35.11	23.78		1532.4							
	OBS	00014	23.74	35.05	23.78		1532.1							
	OBS	00019	23.74	35.05	23.78		1532.2							
	STD	00020	23.47	35.07	23.87	00.082	1531.6							
	OBS	00024	19.63	35.29	25.10		1521.9							
	OBS	00029	16.10	35.35	26.01		1511.7							
	STD	00030	16.10	35.35	26.01	00.113	1511.7							
	OBS	00034	16.10	35.35	26.01		1511.8							
	OBS	00039	15.38	35.53	26.31		1509.9							
	OBS	00044	15.58	35.77	26.45		1510.9							
	OBS	00049	15.61	35.84	26.50		1511.1							
	STD	00050	15.61	35.85	26.51	00.148	1511.2							
	OBS	00068	15.24	36.06	26.75		1510.6							
	OBS	00073	15.06	36.07	26.80		1510.1							
	STD	00075	15.05	36.07	26.81	00.183	1510.1							
	OBS	00088	14.99	36.10	26.84		1510.2							
	OBS	00098	15.04	36.10	26.83		1510.5							
	STD	00100	15.04	36.10	26.83	00.215	1510.5							
	OBS	00123	15.06	36.14	26.85		1511.0							
	STD	00125	15.06	36.14	26.85	00.246	1511.0							
	STD	00150	15.12	36.16	26.85	00.278	1511.6							
	OBS	00197	15.16	36.17	26.86		1512.6							
	STD	00200	15.16	36.17	26.86	00.341	1512.6							
	OBS	00226	15.14	36.17	26.86		1513.0							
	OBS	00246	14.84	36.09	26.86		1512.3							
	STD	00250	14.71	36.06	26.87	00.404	1511.9							
	OBS	00295	13.00	35.69	26.94		1506.6							
	STD	00300	12.76	35.65	26.96	00.465	1505.8							
	OBS	00393	09.00	35.14	27.25		1493.3							
	STD	00400	08.82	35.13	27.27	00.569	1492.8							
	OBS	00492	06.75	35.05	27.51		1486.2							
	STD	00500	06.65	35.05	27.53	00.646	1486.0							
	OBS	00590	05.70	35.05	27.65		1483.7							
	STD	00600	05.61	35.05	27.66	00.704	1483.5							
	OBS	00688	04.97	35.04	27.73		1482.3							
	STD	00700	04.93	35.04	27.73	00.753	1482.3							
	OBS	00787	04.66	35.01	27.74		1482.6							
	STD	00800	04.63	35.01	27.75	00.798	1482.7							
	OBS	00884	04.44	35.00	27.76		1483.3							
	STD	00900	04.41	35.00	27.76	00.843	1483.5							
	OBS	00984	04.28	35.00	27.78		1484.3							
	STD	01000	04.26	35.00	27.78	00.886	1484.5							
	OBS	01082	04.16	34.98	27.77		1485.4							

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REFID 31 8408	YEAR 1974	BOTOP 02286	AIR TEMP 22.8	DIR HGT PER	WIND-DIR 32	INST STU RECORDER	TEN SQ 1209
CONSEC 0658	MONTH 08	SHIP EV	WET BULB 19.1	04 4 4	WIND-SPD 18	TRACE DIR 0	5 SQUARE 3
LAT 36 01.6N	DAY 12	DATA USE 1	BAROMETR 1021.8	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 073 12.6W	HOUR 12.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X0	ORIG 374 058 22	1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.82	35.15	23.83	00.000	1532.2							
12.5	OBS	00000	23.82	35.15	23.83		1532.2							
	STD	00010	23.83	35.15	23.83	00.041	1532.4							
	OBS	00011	23.83	35.15	23.83		1532.4							
	OBS	00013	23.48	35.11	23.90		1531.5							
	OBS	00015	20.64	35.20	24.76		1524.3							
	OBS	00016	19.98	35.58	25.23		1523.0							
	OBS	00018	19.89	35.66	25.31		1522.9							
	STD	00020	19.84	35.56	25.25 •	00.075	1522.7							
	OBS	00020	19.65	35.55	25.29		1522.2							
	OBS	00022	18.43	35.66	25.69		1518.9							
	OBS	00024	18.22	35.40	25.54 •		1518.0							
	OBS	00026	17.31	35.42	25.78		1515.4							
	OBS	00026	16.96	35.41	25.86		1514.4							
	STD	00030	16.39	35.39	25.98	00.099	1512.7							
	OBS	00031	15.97	35.38	26.06		1511.4							
	OBS	00041	16.00	35.98	26.52		1512.4							
	OBS	00043	15.74	35.95	26.55		1511.6							
	STD	00050	15.83	36.05	26.61	00.134	1512.1							
	OBS	00050	15.83	36.06	26.62		1512.1							
	STD	00075	15.02	36.08	26.82	00.166	1510.0							
	OBS	00076	14.99	36.08	26.82		1509.9							
	STD	00100	15.01	36.12	26.85	00.199	1510.4							
	OBS	00101	15.01	36.12	26.85		1510.5							
	STD	00125	15.05	36.14	26.86	00.230	1511.0							
	OBS	00125	15.05	36.14	26.86		1511.0							
	STD	00150	15.10	36.16	26.86	00.261	1511.6							
	OBS	00151	15.10	36.16	26.86		1511.6							
	OBS	00177	15.15	36.17	26.86		1512.2							
	STD	00200	15.15	36.18	26.87	00.324	1512.6							
	OBS	00200	15.15	36.18	26.87		1512.6							
	OBS	00226	15.16	36.18	26.86		1513.1							
	STD	00250	15.15	36.18	26.86	00.387	1513.4							
	OBS	00250	15.14	36.18	26.87		1513.4							
	OBS	00277	14.49	36.00	26.87		1511.5							
	OBS	00286	14.23	35.97	26.90		1510.8							
	STD	00300	13.34	35.80	26.96	00.449	1507.9							
	OBS	00301	13.23	35.78	26.97		1507.6							
	OBS	00309	12.63	35.66	27.00		1505.5							
	OBS	00322	11.95	35.55	27.04		1503.3							
	OBS	00350	10.46	35.34	27.16		1498.2							
	STD	00400	08.83	35.16	27.29	00.552	1492.8							
	OBS	00400	08.80	35.16	27.30		1492.7							
	OBS	00408	08.55	35.14	27.32		1491.9							
	OBS	00453	07.56	35.08	27.42		1488.8							
	STD	00500	06.82	35.07	27.52	00.628	1486.7							
	OBS	00505	06.74	35.07	27.53		1486.4							
	OBS	00539	06.26	35.06	27.59		1485.1							
	STD	00600	05.79	35.04	27.63	00.668	1484.2							
	STD	00700	05.03	35.03	27.72	00.739	1482.7							
	OBS	00705	04.98	35.03	27.72		1482.6							
	OBS	00713	04.95	35.03	27.72		1482.8							
	OBS	00750	04.80	35.02	27.74		1482.6							
	STD	00800	04.60	35.01	27.75	00.785	1482.6							
	OBS	00801	04.60	35.01	27.75		1482.6							
	OBS	00850	04.51	35.00	27.75		1483.0							
	STD	00900	04.40	35.00	27.76	00.829	1483.4							
	OBS	00900	04.40	35.00	27.76		1483.4							
	OBS	00951	04.30	34.99	27.77		1483.8							
	STD	01000	04.27	34.99	27.77	00.873	1484.5							
	OBS	01003	04.27	34.99	27.77		1484.6							
	OBS	01067	04.19	34.98	27.77		1485.3							
	OBS	01084	04.15	34.99	27.78		1485.4							

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REFID 31 8408 YEAR 1974 BOTOP 02281 AIR TEMP 22.8 OIR MGT PER WIND-DIR 32 INST STJ RECORDER TEN SQ 1209
CONSEC 0059 MONTH 08 SHIP EV WET BULB 17.9 06 1 2 WIND-SPD 15 TRACE DIR D 5 SQUARE 3
LAT 38 10.2N DAY 13 DATA USE 1 BAROMETR 1018.2 SEA WIND-FOR DURATION 2 SQUARE 82
LONG 073 06.6W HOUR 01.3 AREA 05 CLOUD T/A CL/TR WEATHER X0 ORIG 374 060 1 SQUARE 83

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.68	35.05	23.79	00.000	1531.7							
	OBS	00000	23.68	35.05	23.79		1531.7							
	OBS	00001	23.71	35.05	23.79		1531.8							
	STD	00010	23.72	35.05	23.78	00.041	1532.0							
	OBS	00011	23.72	35.05	23.78		1532.0							
	OBS	00018	23.69	34.96	23.72 *		1531.9							
	STD	00020	22.98	35.00	23.96	00.082	1530.3							
	OBS	00020	22.47	35.02	24.12		1529.0							
	OBS	00022	20.24	35.08	24.78		1523.2							
	OBS	00024	19.18	35.16	25.12		1520.4							
	OBS	00026	18.68	35.40	25.43		1519.4							
	OBS	00028	18.55	35.45	25.50		1519.1							
	STD	00030	18.46	35.46	25.53	00.114	1518.8							
	OBS	00031	18.05	35.47	25.64		1517.7							
	OBS	00035	16.37	35.40	25.99		1512.7							
	OBS	00043	15.56	35.46	26.22		1510.4							
	STD	00050	15.77	35.88	26.49	00.154	1511.T							
	OBS	00050	15.77	35.90	26.51		1511.T							
	OBS	00056	15.64	36.00	26.62		1511.5							
	STD	00075	15.16	36.05	26.76	00.190	1510.4							
	OBS	00076	15.13	36.05	26.TT		1510.3							
	STD	00100	15.00	36.11	26.84	00.222	1510.4							
	OBS	00101	15.00	36.11	26.84		1510.4							
	STD	00125	15.07	36.13	26.84	00.254	1511.0							
	OBS	00125	15.07	36.13	26.84		1511.1							
	STD	00150	15.11	36.15	26.85	00.285	1511.6							
	OBS	00151	15.11	36.15	26.85		1511.6							
	STD	00200	15.12	36.16	26.85	00.348	1512.5							
	OBS	00241	15.12	36.16	26.86		1513.2							
	STD	00250	15.02	36.12	26.85	00.412	1512.9							
	OBS	00250	15.00	36.12	26.85		1512.9							
	OBS	00275	14.09	35.92	26.90		1510.1							
	STD	00300	12.77	35.6T	26.98	00.473	1505.8							
	OBS	00301	12.69	35.66	26.98		1505.6							
	OBS	00350	10.38	35.29	27.13		149T.9							
	STD	00400	08.64	35.13	27.30	00.575	1492.1							
	OBS	00400	08.62	35.13	27.30		1492.0							
	OBS	00451	07.45	35.09	27.45		1488.3							
	STD	00500	06.59	35.06	27.54	00.649	1485.7							
	OBS	00503	06.53	35.06	27.55		1485.6							
	OBS	00550	05.90	35.04	27.62		1483.8							
	STD	00600	05.59	35.03	27.65	00.707	1483.3							
	OBS	00601	05.58	35.03	27.65		1483.3							
	OBS	00653	05.19	35.03	27.70		1482.6							
	STD	00700	04.92	35.01	27.71	00.758	1482.2							
	OBS	00700	04.92	35.01	27.71		1482.2							
	OBS	00750	04.77	35.00	27.72		1482.5							
	STD	00800	04.63	35.00	27.74	00.804	1482.T							
	OBS	00801	04.63	35.00	27.T4		1482.T							
	OBS	00850	04.56	34.99	27.T4		1483.2							
	STD	00900	04.45	34.99	27.75	00.850	1483.6							
	OBS	00900	04.45	34.99	27.75		1483.6							
	OBS	00951	04.39	34.98	27.75		1484.2							
	STD	01000	04.31	34.97	27.75	00.895	1484.6							
	OBS	01003	04.30	34.97	27.75		1484.7							
	OBS	01043	04.24	34.96	27.75		1485.1							
	OBS	01084	04.18	34.96	27.76		1485.5							

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REPTO 31 8408	YEAR 1974	BOTOP 02455	AIR TEMP 23.2	DIR HGT PER	WIND-DIR 32	INST STD RECORDER	TEN SQ 1209
CONSEC 0060	MONTH 08	SHIP EV	WET BULB 18.7	04 3 5	WIND-SPD 18	TRACE DIR 0	5 SQUARE 3
LAT 38 11.1N	DAY 13	DATA USE 1	BAROMETR 1017.3	SEA	WIND-FOR	DURATION	2 SQUARE 82
LONG 072 59.1W	HOUR 06.0	AREA 05	CLOUD T/A	CL/TR	WEATHER X3	ORIG 374 061	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.65	35.11	23.85	00.000	1531.7							
	OBS	00000	23.65	35.11	23.85		1531.7							
	STD	00010	23.66	35.11	23.85	00.041	1531.9							
	OBS	00013	23.66	35.11	23.85		1531.9							
	STD	00020	23.67	35.12	23.85	00.081	1532.1							
	OBS	00020	23.67	35.12	23.85		1532.1							
	OBS	00022	23.37	35.02	23.86		1531.3							
	OBS	00024	22.78	35.33	24.27		1530.2							
	OBS	00028	20.03	35.31	25.01		1523.0							
	STD	00030	19.10	35.55	25.44	00.115	1520.8							
	OBS	00031	18.19	35.65	25.74		1518.3							
	OBS	00035	16.48	35.42	25.98		1513.1							
	OBS	00037	15.91	35.53	26.19		1511.5							
	OBS	00041	15.67	35.78	26.44		1511.1							
	OBS	00043	15.91	35.88	26.46		1512.0							
	OBS	00045	15.93	35.87	26.45		1512.1							
	STD	00050	15.67	35.88	26.52	00.156	1511.4							
	OBS	00052	15.54	35.88	26.55		1511.0							
	OBS	00054	15.69	36.03	26.63		1511.7							
	OBS	00061	15.52	36.03	26.67		1511.3							
	STD	00075	15.21	36.04	26.74	00.192	1510.6							
	OBS	00076	15.18	36.04	26.75		1510.5							
	STD	00100	15.03	36.10	26.83	00.224	1510.5							
	OBS	00103	15.02	36.10	26.83		1510.5							
	STD	00125	15.04	36.12	26.84	00.256	1510.9							
	OBS	00125	15.04	36.12	26.84		1510.9							
	STD	00150	15.09	36.15	26.86	00.287	1511.5							
	OBS	00151	15.09	36.15	26.86		1511.6							
	OBS	00177	15.15	36.16	26.85		1512.2							
	STD	00200	15.16	36.17	26.85	00.350	1512.6							
	OBS	00204	15.16	36.17	26.86		1512.7							
	OBS	00226	15.16	36.17	26.86		1513.0							
	STD	00250	15.17	36.17	26.85	00.414	1513.5							
	OBS	00252	15.17	36.17	26.85		1513.5							
	OBS	00275	14.84	36.08	26.86		1512.7							
	STD	00300	13.81	35.80	26.86	00.478	1509.5							
	OBS	00303	13.34	35.76	26.93		1507.9							
	OBS	00305	13.06	35.74	26.97		1507.0							
	OBS	00309	13.04	35.73	26.97		1507.0							
	OBS	00312	12.55	35.64	27.00		1505.3							
	OBS	00314	12.51	35.62	26.99		1505.1							
	OBS	00323	11.66	35.49	27.05		1502.2							
	OBS	00346	10.80	35.38	27.13		1499.4							
	OBS	00350	10.47	35.30	27.12		1498.2							
	STD	00400	08.51	35.11	27.30	00.585	1491.6							
	OBS	00400	08.49	35.11	27.30		1491.5							
	OBS	00451	07.41	35.08	27.44		1488.2							
	STD	00500	06.47	35.06	27.56	00.658	1485.3							
	OBS	00501	06.44	35.06	27.56		1485.2							
	OBS	00550	05.81	35.04	27.63		1483.4							
	STD	00600	05.26	35.02	27.68	00.714	1482.0							
	OBS	00601	05.25	35.02	27.68		1482.0							
	OBS	00651	05.04	35.03	27.72		1482.0							
	STD	00700	04.91	35.03	27.73	00.762	1482.2							
	OBS	00700	04.91	35.03	27.73		1482.2							
	OBS	00750	04.76	35.01	27.73		1482.4							
	STD	00800	04.60	35.01	27.75	00.807	1482.6							
	OBS	00801	04.60	35.01	27.75		1482.6							
	OBS	00850	04.51	35.00	27.75		1483.0							
	STD	00900	04.39	34.99	27.76	00.851	1483.4							
	OBS	00902	04.39	34.99	27.76		1483.4							
	OBS	00951	04.31	34.99	27.77		1483.9							
	STD	01000	04.26	34.98	27.76	00.896	1484.5							
	OBS	01001	04.26	34.98	27.76		1484.5							
	OBS	01056	04.14	34.96	27.76		1484.9							
	OBS	01078	04.12	34.97	27.77		1485.2							
	OBS	01082	04.12	34.97	27.77		1485.2							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BOTDP 02543	AIR TEMP 23.5	DIR HGT PER	WIND-DIR 32	INST STD RECORDER	TEN SQ 1209
CONSEC 0061	MONTH 08	SHIP EV	WET BULB 20.7	27 0 3	WIND-SPD 16	TRACE DIR 0	5 SQUARE 3
LAT 38 06.5N	DAY 13	DATA USE 1	BAROMETR 1017.2	SEA	WIND-FOR	DURATION 01.2	2 SQUARE 82
LONG 072 55.2W	HOUR 12.2	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 062 18	1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SI33	PH
	STD	00000	23.57	35.15	23.90	00.000	1531.6							
12.2	OBS	00000	23.57	35.15	23.90		1531.6							
	STD	00010	23.54	35.14	23.90	00.040	1531.6							
	OBS	00011	23.54	35.14	23.90		1531.7							
	OBS	00013	23.37	35.03	23.87		1531.1							
	OBS	00015	22.95	34.97	23.95		1530.1							
	STD	00020	22.58	35.09	24.15	00.079	1529.3							
	OBS	00020	21.93	35.19	24.40		1527.8							
	OBS	00022	19.22	35.59	25.43		1521.0							
	OBS	00024	17.89	35.96	26.05		1517.7							
	OBS	00026	17.83	36.08	26.16		1517.7							
	OBS	00026	17.12	35.92	26.21		1515.5							
	STD	00030	16.73	36.04	26.39	00.106	1514.5							
	OBS	00030	16.73	36.04	26.39		1514.5							
	OBS	00046	15.67	36.08	26.67		1511.6							
	STD	00050	15.65	36.07	26.67	00.137	1511.5							
	OBS	00050	15.63	36.07	26.67		1511.5							
	OBS	00056	15.33	36.06	26.73		1510.7							
	STD	00075	15.05	36.10	26.82	00.170	1510.1							
	OBS	00076	15.04	36.10	26.83		1510.1							
	STD	00100	15.03	36.12	26.84	00.201	1510.5							
	OBS	00101	15.03	36.12	26.85		1510.5							
	STD	00125	15.05	36.12	26.84	00.233	1511.0							
	STD	00150	15.07	36.13	26.85	00.264	1511.5							
	OBS	00189	15.13	36.16	26.85		1512.3							
	STD	00200	15.15	36.17	26.86	00.327	1512.6							
	OBS	00200	15.15	36.17	26.86		1512.6							
	OBS	00226	15.18	36.18	26.86		1513.1							
	STD	00250	15.17	36.18	26.86	00.391	1513.5							
	OBS	00250	15.17	36.18	26.86		1513.5							
	OBS	00277	15.16	36.17	26.86		1513.9							
	OBS	00299	15.16	36.17	26.86		1514.2							
	STD	00300	15.14	36.16	26.85	00.455	1514.2							
	OBS	00305	14.91	36.09	26.85		1513.5							
	OBS	00320	13.84	35.87	26.91		1510.0							
	OBS	00327	13.38	35.80	26.95		1508.5							
	OBS	00333	12.87	35.69	26.97		1506.8							
	OBS	00350	12.02	35.53	27.01		1503.9							
	STD	00400	09.75	35.25	27.21	00.568	1496.3							
	OBS	00400	09.72	35.25	27.21		1496.3							
	OBS	00421	09.03	35.18	27.27		1494.0							
	OBS	00423	08.76	35.15	27.29		1493.0							
	OBS	00451	08.08	35.12	27.38		1490.8							
	STD	00500	06.90	35.07	27.51	00.648	1487.0							
	OBS	00501	06.86	35.07	27.51		1486.8							
	OBS	00550	06.11	35.04	27.59		1484.6							
	STD	00600	05.60	35.03	27.65	00.708	1483.4							
	OBS	00601	05.59	35.03	27.65		1483.4							
	OBS	00651	05.21	35.03	27.70		1482.7							
	STD	00700	04.98	35.03	27.72	00.758	1482.5							
	OBS	00702	04.97	35.03	27.72		1482.5							
	OBS	00750	04.80	35.02	27.74		1482.6							
	STD	00800	04.58	35.00	27.74	00.804	1482.5							
	OBS	00801	04.58	35.00	27.74		1482.5							
	OBS	00852	04.48	34.99	27.75		1482.9							
	STD	00900	04.40	34.99	27.76	00.849	1483.4							
	OBS	00900	04.40	34.99	27.76		1483.4							
	OBS	00951	04.32	34.98	27.76		1483.9							
	STD	01000	04.26	34.98	27.76	00.893	1484.5							
	OBS	01001	04.26	34.98	27.76		1484.5							
	OBS	01080	04.17	34.98	27.77		1485.4							
	OBS	01084	04.17	34.98	27.77		1485.5							

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REFID 31 8408 | YEAR 1974 | BOTOP 02548 | AIR TEMP 23.5 | DIR MGT PER | WIND-DIR 34 | INSI STJ RECORDER | IEN SQ 1209
CONSEC 0062 | MONTH 08 | SHIP EV | WET BULB 20.5 | 10 3 5 | WIND-SPD 13 | TRACE DIR 0 | 5 SQUARE 3
LAT 38 05.8N | DAY 13 | DATA USE 1 | BAROMETR 1016.9 | SEA | WIND-FOR | DURATION 01.2 | 2 SQUARE 82
LONG 072 57.0W | HOUR 14.3 | AREA 05 | CLOUD T/A | CL/TR | WEATHER X1 | ORIG 374 063 16 | 1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	NO2	NO3	SI03	PH
	STD	00000	23.69	35.19	23.90	00.000	1531.9							
16.3	OBS	00000	23.69	35.19	23.90		1531.9							
	OBS	00007	23.51	35.20	23.96		1531.6							
	OBS	00009	22.56	35.06	24.13		1529.1							
	STD	00010	22.10	35.08	24.27	00.038	1528.0							
	OBS	00011	21.30	35.12	24.52		1525.9							
	OBS	00013	19.98	35.53	25.19		1522.9							
	OBS	00015	19.84	35.28	25.04 •		1522.3							
	OBS	00016	18.66	35.54	25.49		1519.9							
	OBS	00018	18.30	35.69	25.74		1518.5							
	STD	00020	18.15	35.72	25.81	00.068	1518.1							
	OBS	00020	17.98	35.75	25.87		1517.7							
	OBS	00022	17.09	35.86	26.17		1515.2							
	OBS	00026	16.62	35.98	26.37		1514.0							
	OBS	00028	16.56	35.95	26.36		1513.8							
	STD	00030	16.48	35.97	26.40	00.087	1513.7							
	OBS	00033	16.10	36.02	26.53		1512.6							
	OBS	00035	15.79	36.10	26.66		1511.8							
	OBS	00037	15.77	36.06	26.63 •		1511.7							
	OBS	00043	15.29	36.06	26.74		1510.3							
	STD	00050	15.11	36.07	26.79	00.116	1509.9							
	OBS	00050	15.10	36.07	26.79		1509.9							
	STD	00075	15.03	36.13	26.85	00.148	1510.1							
	OBS	00076	15.03	36.13	26.85		1510.1							
	STD	00100	15.06	36.13	26.85	00.179	1510.6							
	OBS	00101	15.06	36.13	26.85		1510.6							
	STD	00125	15.08	36.16	26.87	00.210	1511.1							
	OBS	00125	15.08	36.16	26.87		1511.1							
	STD	00150	15.11	36.16	26.86	00.241	1511.6							
	OBS	00151	15.11	36.16	26.86		1511.6							
	OBS	00176	15.15	36.17	26.86		1512.2							
	STD	00200	15.17	36.18	26.86	00.303	1512.6							
	OBS	00202	15.17	36.18	26.86		1512.7							
	OBS	00226	15.18	36.18	26.86		1513.1							
	STD	00250	15.19	36.18	26.86	00.367	1513.5							
	OBS	00251	15.19	36.18	26.86		1513.6							
	OBS	00275	15.16	36.18	26.86		1513.9							
	STD	00300	15.16	36.18	26.86	00.431	1514.3							
	OBS	00301	15.16	36.17	26.86		1514.3							
	OBS	00331	13.91	35.88	26.90		1510.4							
	OBS	00335	13.80	35.84	26.90		1510.1							
	OBS	00337	13.38	35.79	26.94		1508.6							
	OBS	00350	12.82	35.68	26.97		1506.9							
	OBS	00357	12.36	35.61	27.01		1505.3							
	OBS	00365	11.79	35.52	27.05		1503.4							
	STD	00400	09.91	35.28	27.21	00.544	1497.0							
	OBS	00400	09.87	35.28	27.21		1496.8							
	OBS	00451	08.27	35.12	27.35		1491.5							
	STD	00500	07.07	35.08	27.49	00.626	1487.7							
	OBS	00501	07.04	35.08	27.50		1487.6							
	OBS	00526	06.67	35.05	27.52		1486.5							
	OBS	00544	06.33	35.07	27.59		1485.5							

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REFID 31 8408	YEAR 1974	BOTOP 02707	AIR TEMP 26.1	DIR HGT PER	WIND-DIR 29	INST SIG RECORDER	TEN SQ 1209
CONSEC 0063	MONTH 08	SHIP EV	WET BULB 20.6	05 3 5	WIND-SPD 10	TRACE DIR D	5 SQUARE 3
LAT 37 58.6N	DAY 13	DATA USE 1	BAROMETR 1016.9	SEA	WIND-FOR	DURATION 00.4	2 SQUARE 62
LONG 072 42.3W	HOUR 19.0	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 064 19	1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SI33	PH
	STD	00000	23.31	35.62	24.33	00.000	1531.4							
19.0	OBS	00000	23.31	35.62	24.33		1531.4							
	STD	00010	22.95	35.60	24.42	00.036	1530.7							
	OBS	00011	22.93	35.60	24.43		1530.7							
	OBS	00013	22.90	35.60	24.44		1530.6							
	OBS	00015	21.95	35.50	24.63		1528.1							
	OBS	00018	20.82	35.50	24.94		1525.2							
	STD	00020	18.39	35.50	25.57	00.065	1518.6							
	OBS	00020	17.69	35.50	25.75		1516.5							
	OBS	00022	17.15	35.67	26.01		1515.2							
	OBS	00028	17.08	36.01	26.29		1515.5							
	STD	00030	16.97	36.00	26.31	00.086	1515.2							
	OBS	00033	16.49	35.99	26.41		1513.8							
	OBS	00035	16.11	35.99	26.50		1512.6							
	OBS	00039	15.85	36.05	26.61		1512.0							
	STD	00050	15.21	36.06	26.76	00.117	1510.2							
	OBS	00050	15.18	36.06	26.77		1510.1							
	STD	00075	15.03	36.14	26.86	00.148	1510.1							
	OBS	00076	15.03	36.14	26.86		1510.1							
	STD	00100	15.06	36.14	26.85	00.179	1510.6							
	OBS	00101	15.06	36.14	26.85		1510.6							
	STD	00125	15.08	36.15	26.86	00.210	1511.1							
	OBS	00125	15.08	36.15	26.86		1511.1							
	STD	00150	15.13	36.16	26.85	00.241	1511.7							
	OBS	00151	15.13	36.16	26.85		1511.7							
	OBS	00176	15.15	36.17	26.86		1512.2							
	STD	00200	15.17	36.19	26.87	00.304	1512.7							
	OBS	00200	15.17	36.19	26.87		1512.7							
	OBS	00243	15.15	36.19	26.87		1513.3							
	STD	00250	15.14	36.17	26.86	00.367	1513.4							
	OBS	00251	15.14	36.17	26.86		1513.4							
	OBS	00277	15.16	36.17	26.86		1513.9							
	STD	00300	14.79	36.08	26.86	00.431	1513.0							
	OBS	00301	14.75	36.07	26.87		1512.9							
	OBS	00310	14.46	36.04	26.91		1512.0							
	OBS	00316	14.08	35.94	26.91		1510.8							
	OBS	00318	13.99	35.91	26.91		1510.5							
	OBS	00325	13.38	35.78	26.94		1508.5							
	OBS	00329	13.24	35.77	26.96		1508.0							
	OBS	00333	12.92	35.71	26.98		1507.0							
	OBS	00350	12.02	35.57	27.05		1504.0							
	OBS	00355	11.97	35.57	27.06		1503.9							
	OBS	00361	11.55	35.47	27.06		1502.4							
	STD	00400	09.88	35.26	27.20	00.544	1496.9							
	OBS	00400	09.87	35.26	27.20		1496.8							
	OBS	00404	09.82	35.28	27.22		1496.7							
	OBS	00451	08.33	35.13	27.35		1491.8							
	STD	00500	07.54	35.08	27.42	00.630	1489.5							
	OBS	00500	07.54	35.08	27.42		1489.5							
	OBS	00533	06.76	35.04	27.50		1486.9							
	OBS	00548	06.49	35.08	27.57		1486.2							

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REFIO 31 6408	YEAR 1974	BOTOP 02593	AIR TEMP 24.1	OIR MGT PER	WIND-DIR 28	INST STA RECORDER	TEN SQ 1209
CONSEC 0064	MONTH 08	SHIP EV	WET BULB 20.2	05 3 5	WIND-SPD 11	TRACE OIR 0	5 SQUARE 3
LAT 37 45.7N	DAY 13	DATA USE 1	BAROMETR 1016.3	SEA	WIND-FOR	DURATION 00.5	2 SQUARE 82
LONG 073 00.2W	HOUR 21.5	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 374 065 21	1 SQUARE 73

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P34	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.67	34.37	23.28	00.000	1530.9							
21.5	OBS	00000	23.67	34.37	23.28		1530.9							
	OBS	00009	23.65	34.33	23.26		1531.0							
	STD	00010	23.42	34.71	23.61	00.044	1530.8							
	OBS	00011	23.04	35.17	24.07		1530.4							
	OBS	00013	22.51	35.42	24.41		1529.4							
	OBS	00016	22.38	35.39	24.43		1529.1							
	STD	00020	20.94	35.54	24.94	00.081	1525.6							
	OBS	00020	20.58	35.58	25.07		1524.7							
	OBS	00022	18.86	35.75	25.65		1520.2							
	OBS	00026	18.39	35.81	25.81		1519.0							
	OBS	00028	17.08	36.04	26.31		1515.5							
	STD	00030	16.76	36.03	26.38	00.105	1514.6							
	OBS	00031	16.32	36.03	26.48		1513.3							
	OBS	00033	15.70	36.03	26.63		1511.4							
	STD	00050	15.07	36.07	26.80	00.134	1509.8							
	OBS	00050	15.06	36.07	26.80		1509.7							
	STD	00075	15.02	36.10	26.83	00.166	1510.0							
	OBS	00076	15.02	36.10	26.83		1510.1							
	STD	00100	15.06	36.13	26.84	00.197	1510.6							
	OBS	00104	15.07	36.13	26.84		1510.7							
	STD	00125	15.09	36.14	26.85	00.228	1511.1							
	OBS	00127	15.09	36.14	26.85		1511.2							
	STD	00150	15.13	36.15	26.85	00.259	1511.7							
	OBS	00151	15.13	36.15	26.85		1511.7							
	STD	00200	15.09	36.14	26.85	00.323	1512.4							
	STD	00250	15.06	36.13	26.84	00.387	1513.1							
	STD	00300	15.02	36.11	26.84	00.452	1513.7							
	OBS	00314	15.01	36.11	26.84		1513.9							
	OBS	00348	13.55	35.84	26.95		1509.5							
	OBS	00353	13.16	35.72	26.94		1508.1							
	OBS	00355	12.88	35.70	26.98		1507.2							
	OBS	00361	12.80	35.70	26.99		1507.0							
	OBS	00370	12.26	35.60	27.02		1505.3							
	OBS	00394	11.36	35.46	27.09		1502.3							
	STD	00400	11.34	35.46	27.09	00.572	1502.3							
	OBS	00400	11.29	35.46	27.10		1502.1							
	OBS	00402	11.02	35.40	27.10		1501.2							
	OBS	00443	10.03	35.28	27.18		1498.1							
	OBS	00452	09.36	35.18	27.22		1495.7							
	OBS	00462	09.19	35.18	27.25		1495.2							
	OBS	00464	08.93	35.18	27.29		1494.3							
	OBS	00465	08.92	35.17	27.28		1494.3							
	OBS	00492	07.78	35.08	27.39		1490.3							
	STD	00500	07.71	35.09	27.41	00.664	1490.1							
	OBS	00503	07.64	35.09	27.42		1489.9							
	OBS	00514	07.28	35.09	27.47		1488.7							
	OBS	00518	07.28	35.08	27.46		1488.8							

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NODC STATION DATA

REFID 31 8408	YEAR 1974	BOTOP 02446	AIR TEMP 23.4	DIR HGT PER	WIND-DIR 30	INST SEA RECORDER	TEN SQ 1209
CONSEC 0065	MONTH 08	SHIP EV	WET BULB 19.5	01 3 6	WIND-SPD 15	TRACE DIR 0	5 SQUARE 3
LAT 31 55.1N	DAY 13	DATA USE 1	BAROMETR 1016.2	SEA	WIND-FOR	DURATION 00.4	2 SQUARE 62
LONG 072 58.0W	HOUR 23.1	AREA 05	CLOUD T/A	CL/TR	WEATHER X1	ORIG 3T4 066 22	1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SIO3	PH
	STD	00000	23.50	34.36	23.33	00.000	1530.5							
23.1	OBS	00000	23.50	34.36	23.33		1530.5							
	OBS	00005	23.49	34.39	23.35		1530.6							
	OBS	00007	22.95	34.99	23.96		1530.0							
	OBS	00009	22.19	35.52	24.58		1528.7							
	STD	00010	21.69	35.57	24.75	00.039	1527.4							
	OBS	00013	19.59	35.75	25.46		1522.1							
	OBS	00016	18.15	35.86	25.91		1518.2							
	OBS	00018	17.39	35.93	26.15		1516.1							
	STD	00020	17.30	35.96	26.20	00.064	1515.9							
	OBS	00020	17.22	35.98	26.23		1515.7							
	OBS	00022	16.76	36.05	26.39		1514.5							
	OBS	00028	16.63	36.02	26.40		1514.1							
	STD	00030	15.94	36.04	26.58	00.081	1512.1							
	OBS	00030	15.94	36.04	26.58		1512.1							
	STD	00050	15.09	36.07	26.79	00.108	1509.8							
	OBS	00050	15.08	36.07	26.80		1509.8							
	STD	00075	15.04	36.10	26.83	00.140	1510.1							
	OBS	00076	15.04	36.10	26.83		1510.1							
	STD	00100	15.02	36.11	26.84	00.171	1510.5							
	OBS	00101	15.02	36.11	26.84		1510.5							
	STD	00125	15.06	36.13	26.85	00.202	1511.0							
	OBS	00125	15.06	36.13	26.85		1511.0							
	STD	00150	15.09	36.14	26.85	00.234	1511.5							
	OBS	00151	15.09	36.14	26.85		1511.6							
	OBS	00176	15.15	36.15	26.84		1512.2							
	STD	00200	15.18	36.17	26.85	00.297	1512.7							
	OBS	00200	15.18	36.17	26.85		1512.7							
	OBS	00226	15.18	36.17	26.85		1513.1							
	STD	00250	15.21	36.17	26.84	00.361	1513.6							
	OBS	00253	15.21	36.17	26.84		1513.6							
	OBS	00275	15.16	36.16	26.85		1513.8							
	STD	00300	15.16	36.16	26.85	00.426	1514.2							
	OBS	00301	15.16	36.16	26.85		1514.3							
	OBS	00352	15.17	36.16	26.85		1515.1							
	OBS	00361	14.61	35.99	26.84		1513.3							
	OBS	00363	14.51	36.00	26.87		1513.0							
	OBS	00374	13.71	35.86	26.93		1510.4							
	OBS	00380	13.19	35.72	26.93		1508.6							
	OBS	00382	13.01	35.70	26.95		1508.0							
	STD	00400	12.09	35.57	27.04	00.548	1505.0							
	OBS	00401	12.00	35.56	27.04		1504.8							
	OBS	00410	11.24	35.42	27.08		1502.1							
	OBS	00423	10.54	35.36	27.16		1499.7							
	OBS	00425	10.54	35.37	27.17		1499.8							
	OBS	00451	09.44	35.21	27.23		1496.0							
	STD	00500	07.84	35.08	27.38	00.645	1490.6							
	OBS	00500	07.83	35.08	27.38		1490.6							
	OBS	00519	07.44	35.06	27.42		1489.4							

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REF ID 31 8408 | YEAR 1974 | BUTOP 02798 | AIR TEMP 23.0 | DIR HGT PER | WIND-DIR 23 | INST STD RECORDER | TEN SQ 1209
CONSEC 0066 | MONTH 08 | SHIP EV | WET BULB 21.0 | 20 1 2 | WIND-SPD 17 | TRACE DIR 0 | 5 SQUARE 3
LAT 38 02.1N | DAY 14 | DATA USE 1 | BAROMETR 1016.5 | SEA | WIND-FOR | DURATION 01.0 | 2 SQUARE 82
LONG 072 41.9W | HOUR 06.3 | AREA 05 | CLOUD T/A | CL/TR | WEATHER 40 | ORIG 374 067 | 1 SQUARE 82

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	P04	TOT P	N02	N03	SI03	PH
	STD	00000	23.62	35.25	23.96	00.000	1531.8							
06.3	OBS	00000	23.62	35.25	23.96		1531.8							
	STD	00010	23.62	35.25	23.96	00.040	1532.0							
	OBS	00011	23.62	35.25	23.96		1532.0							
	OBS	00015	23.58	35.23	23.96		1531.9							
	OBS	00018	22.50	35.11	24.18		1529.1							
	STD	00070	21.56	35.02	24.38	00.077	1526.6							
	OBS	00020	21.06	35.01	24.50		1525.3							
	OBS	00024	17.05	35.34	25.78		1514.5							
	OBS	00028	16.74	35.46	25.96		1513.6							
	STD	00030	16.43	35.64	26.16	00.104	1513.1							
	OBS	00031	16.16	35.78	26.33		1512.5							
	STD	00050	15.67	36.02	26.62	00.138	1511.6							
	OBS	00052	15.61	36.04	26.65		1511.4							
	STD	00075	15.02	36.08	26.81	00.171	1510.0							
	OBS	00076	15.00	36.08	26.82		1510.0							
	STD	00100	15.02	36.12	26.85	00.203	1510.5							
	OBS	00101	15.02	36.12	26.85		1510.5							
	STD	00125	15.08	36.13	26.84	00.234	1511.1							
	OBS	00127	15.08	36.13	26.84		1511.1							
	STD	00150	15.10	36.15	26.85	00.265	1511.6							
	OBS	00155	15.11	36.15	26.85		1511.7							
	OBS	00179	15.15	36.16	26.85		1512.2							
	STD	00200	15.18	36.17	26.85	00.329	1512.7							
	OBS	00200	15.18	36.17	26.85		1512.7							
	OBS	00232	15.19	36.17	26.85		1513.2							
	STD	00250	15.16	36.16	26.85	00.393	1513.4							
	OBS	00251	15.16	36.16	26.85		1513.4							
	OBS	00280	14.97	36.07	26.82		1513.2							
	STD	00300	13.88	35.87	26.90	00.456	1509.8							
	OBS	00303	13.72	35.84	26.91		1509.3							
	OBS	00307	13.56	35.81	26.92		1508.8							
	OBS	00312	13.10	35.71	26.94		1507.2							
	OBS	00320	12.47	35.60	26.98		1505.1							
	OBS	00337	11.38	35.40	27.04		1501.3							
	OBS	00346	11.11	35.36	27.07		1500.5							
	OBS	00352	10.80	35.33	27.09		1499.5							
	STD	00400	08.71	35.13	27.28	00.562	1492.4							
	OBS	00402	08.62	35.12	27.29		1492.0							
	OBS	00455	07.29	35.06	27.45		1487.7							
	STD	00500	06.51	35.04	27.54	00.638	1485.4							
	OBS	00503	06.45	35.04	27.55		1485.2							
	OBS	00550	05.86	35.04	27.62		1483.6							
	STD	00600	05.49	35.02	27.65	00.696	1482.9							
	OBS	00601	05.48	35.02	27.65		1482.9							
	OBS	00651	05.25	35.02	27.68		1482.8							
	STD	00700	05.02	35.01	27.70	00.746	1482.6							
	OBS	00702	05.01	35.01	27.70		1482.6							
	OBS	00752	04.80	35.00	27.72		1482.6							
	STD	00800	04.63	35.00	27.74	00.793	1482.7							
	OBS	00803	04.62	35.00	27.74		1482.7							
	OBS	00852	04.49	34.99	27.75		1483.0							
	STD	00900	04.40	34.98	27.75	00.839	1483.4							
	OBS	00902	04.40	34.98	27.75		1483.4							
	OBS	00951	04.30	34.98	27.76		1483.8							
	STD	01000	04.24	34.97	27.76	00.884	1484.4							
	OBS	01001	04.24	34.97	27.76		1484.4							
	OBS	01026	04.21	34.96	27.75		1484.7							
	OBS	01088	04.13	34.96	27.76		1485.4							
	OBS	01091	04.13	34.97	27.77		1485.4							

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REFID 31 8408	YEAR 1974	BUTOP 02686	AIR TEMP 29.2	DIR HGT PER		WIND-DIR 21	INST SIG RECORDER		TEN SQ 1209
CONSEC 0067	MONTH 08	SHIP EV	WET BULB 22.3	26 1 2		WIND-SPD 06	TRACE DIR	0	5 SQUARE 3
LAT 37 58.0N	DAY 14	DATA USE 1	BAROMETR 1017.8	SEA		WIND-FOR	DURATION	01.2	2 SQUARE 62
LONG 072 40.4W	HOUR 12.0	AREA 05	CLOUD T/A	CL/TR		WEATHER X1	ORIG 374 068 19		1 SQUARE 72

CASTNUM/TIME	LVLTYP	DEPTH	TEMP	SAL	SIGMA-T	DYNDPTH	SND VEL	OXYG	PO4	TOT P	NO2	NO3	SIO3	PH
	STD	00000	23.58	35.24	23.97	00.000	1531.7							
12.0	OBS	00000	23.58	35.24	23.97		1531.7							
	OBS	00001	23.59	35.25	23.97		1531.7							
	STD	00010	23.58	35.25	23.97	00.039	1531.9							
	OBS	00013	23.58	35.25	23.97		1531.9							
	OBS	00018	23.60	35.46	24.13		1532.3							
	STD	00020	23.10	35.29	24.14	00.078	1530.9							
	OBS	00020	22.88	35.24	24.17		1530.3							
	OBS	00024	21.60	35.36	24.62		1527.2							
	STD	00030	19.81	35.40	25.13	00.111	1522.6							
	OBS	00031	18.56	35.52	25.55		1519.2							
	OBS	00033	17.07	35.69	26.04		1515.1							
	OBS	00041	16.88	35.62	26.19		1514.9							
	OBS	00045	16.02	36.00	26.53		1512.5							
	OBS	00046	15.95	36.02	26.56		1512.4							
	STD	00050	15.59	36.00	26.63	00.154	1511.3							
	OBS	00055	15.54	36.00	26.64		1511.1							
	OBS	00059	15.33	36.05	26.72		1510.7							
	OBS	00061	15.19	36.05	26.76		1510.3							
	STD	00075	15.04	36.08	26.81	00.188	1510.1							
	OBS	00078	15.02	36.09	26.82		1510.1							
	STD	00100	15.02	36.12	26.85	00.219	1510.5							
	OBS	00101	15.02	36.12	26.85		1510.5							
	STD	00125	15.09	36.14	26.85	00.251	1511.1							
	OBS	00125	15.09	36.14	26.85		1511.1							
	STD	00150	15.13	36.16	26.85	00.282	1511.7							
	OBS	00151	15.13	36.16	26.85		1511.7							
	OBS	00177	15.17	36.17	26.85		1512.3							
	STD	00200	15.17	36.17	26.85	00.345	1512.6							
	OBS	00200	15.17	36.17	26.85		1512.6							
	OBS	00226	15.16	36.17	26.86		1513.0							
	STD	00250	15.14	36.16	26.85	00.409	1513.4							
	OBS	00256	15.14	36.16	26.85		1513.5							
	OBS	00275	15.16	36.16	26.85		1513.8							
	STD	00300	14.04	35.92	26.91	00.472	1510.4							
	OBS	00301	13.96	35.91	26.91		1510.2							
	OBS	00307	13.74	35.87	26.93		1509.4							
	OBS	00325	12.08	35.56	27.03		1503.8							
	OBS	00333	11.54	35.47	27.08		1501.9							
	OBS	00350	10.90	35.39	27.12		1499.9							
	OBS	00353	10.84	35.36	27.10		1499.7							
	OBS	00355	10.56	35.34	27.14		1498.7							
	OBS	00365	10.32	35.32	27.17		1497.9							
	OBS	00370	10.01	35.27	27.18		1496.8							
	OBS	00380	09.86	35.23	27.17		1496.4							
	OBS	00385	09.45	35.21	27.23		1495.0							
	STD	00400	08.95	35.16	27.27	00.575	1493.3							
	OBS	00400	08.93	35.16	27.27		1493.2							
	OBS	00455	07.71	35.08	27.40		1489.4							
	OBS	00488	07.18	35.08	27.48		1487.9							
	STD	00500	06.66	35.04	27.52	00.656	1486.0							
	OBS	00501	06.59	35.04	27.53		1485.7							
	OBS	00550	05.93	35.04	27.61		1483.9							
	STD	00600	05.31	35.02	27.68	00.713	1482.2							
	OBS	00604	05.27	35.02	27.68		1482.1							
	OBS	00651	05.15	35.02	27.69		1482.4							
	STD	00700	05.00	35.01	27.70	00.763	1482.6							
	OBS	00700	05.00	35.01	27.70		1482.6							
	OBS	00750	04.83	35.00	27.72		1482.7							
	STD	00800	04.65	35.00	27.74	00.810	1482.8							
	OBS	00801	04.65	35.00	27.74		1482.8							
	OBS	00850	04.55	34.99	27.74		1483.2							
	STD	00900	04.37	34.99	27.76	00.855	1483.3							
	OBS	00900	04.37	34.99	27.76		1483.3							
	OBS	00951	04.29	34.98	27.76		1483.8							
	OBS	00969	04.24	34.97	27.76		1483.9							
	STD	01000	04.22	34.97	27.76	00.899	1484.3							
	OBS	01005	04.21	34.97	27.76		1484.3							
	OBS	01061	04.15	34.97	27.77		1485.0							
	OBS	01084	04.15	34.98	27.78		1485.4							

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