

U.S. Coast Guard Oceanographic Report

OCEANOGRAPHIC
REPORT

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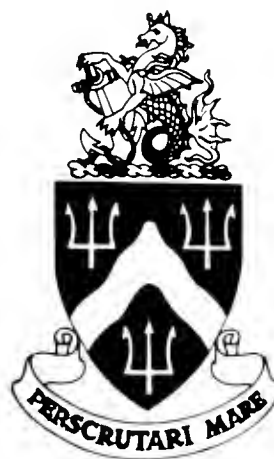
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UNITED STATES COAST GUARD

OCEANOGRAPHIC



UNITED STATES COAST GUARD OCEANOGRAPHIC UNIT

REPORT No. 54 CG 373-54

OCEANOGRAPHIC CONDITIONS IN THE NORTHERN BAFFIN BAY REGION

24 July-6 August 1970

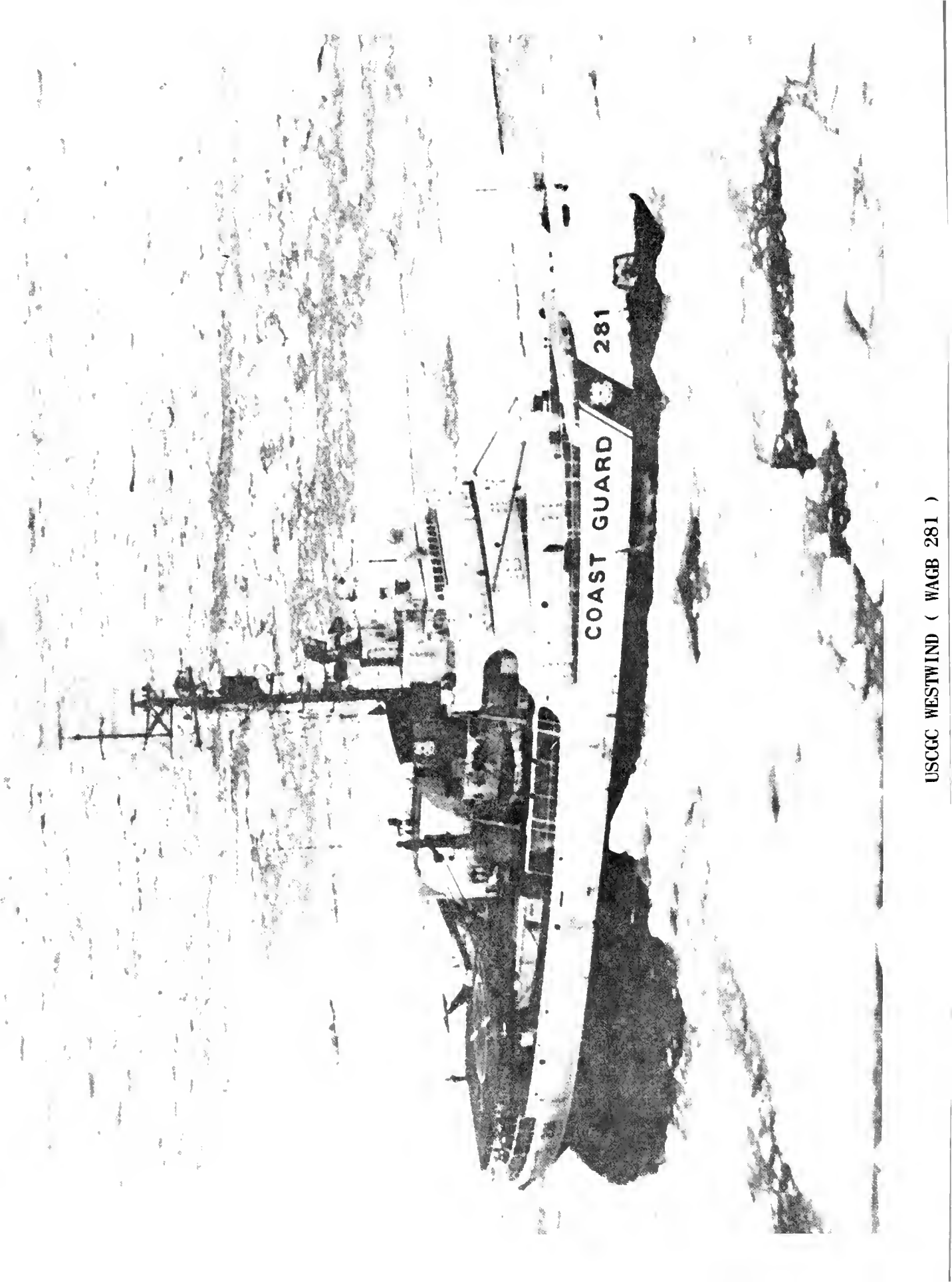
Robin D. Muench

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WASHINGTON, D.C. ⚓ AUGUST 1972



USCGC WESTWIND (WAGB 281)

ABSTRACT

Physical oceanographic conditions observed in northern Baffin Bay during midsummer 1970 are described. Spatial distributions of temperature and salinity are discussed using vertical sections and horizontal plan views. Circulation is discussed with the aid of dynamic topographies, temperature-salinity analyses and isentropic diagrams, and computed geostrophic volume transports are presented. Gross physical oceanographic conditions observed during midsummer 1970 are compared with those observed during previous summers.

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OCEANOGRAPHIC CONDITIONS IN THE NORTHERN BAFFIN BAY REGION

24 July-6 August 1970

by

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INTRODUCTION

An oceanographic survey was carried out from the USCGC WESTWIND (WAGB-281) in the northern Baffin Bay region during 24 July-6 August 1970 (fig. 1). This survey, under the auspices of the Baffin Bay-North Water Project, was coordinated by the Arctic Institute of North America and cooperative among groups from the University of Washington, the United States Coast Guard, Dartmouth College, and McGill University.

The summer physical oceanography of the northern Baffin Bay region has been discussed by Muench (1971a). The summer 1970 oceanographic program was designed to test, insofar as possible, the conclusions of Muench and to obtain detailed synoptic data from areas where data were acquired separately during the summers of 1968 (Muench, 1971b) and 1969 (Muench, 1971c). An additional goal was the retrieval of two current meters which had been moored in Smith Sound during the preceding summer (Muench, 1971c).

SAMPLING PROGRAM

On 22 July 1970 the scientific personnel boarded the CGC WESTWIND at Thule, Greenland. These personnel included Robin D. Muench, Rick Avis, Joseph Karpen, James Kevin, all from the University of Washington; Jon Jolly of Jon B. Jolly, Inc., Seattle, Wash.; and Wilson Lewis of McGill University. The WESTWIND was commanded by Capt. J.S. Thuma, United States Coast Guard.

On 24 July Geodyne Model 850 recording current meters were moored 100 m deep at two locations in eastern Lancaster Sound (fig. 1). Oceanographic stations 1-29 were occupied from 24-27 July. On 29-30 July an attempt was made to recover the current meters which had been moored in northern Smith Sound during the preceding summer. Several attempts to interrogate and trigger the acoustic release on the moored array failed. Dragging for the array with a length of cable yielded no results. Since positions were accurate to within a few hundred yards, it is probable that the array was no longer present at its original location.

The remaining oceanographic stations were occupied from 30 July to 6 August. On 6 August the northernmost of the two current meters moored earlier during the same cruise in Lancaster Sound was recovered but had not functioned. The southern meter was never located; the presence of icebergs in southeast Lancaster Sound suggests that it may have been broken loose.

DATA ANALYSIS

The oceanographic data were obtained using a Bissett-Berman Model 9060 self-contained salinity / temperature / depth recording unit (STD). At least two samples were obtained from Nansen bottles placed on each STD cast except at stations 17, 22, 28, 29, 40, 41, 42, 49, and 54 where this was precluded by shallow depths. On about every fourth STD cast more numerous Nansen samples (as many as 12, depending upon the depth at the station) were obtained.

Temperature and salinity data from the Nan-

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sen casts allowed periodic calibration of the STD. Temperatures were read from reversing thermometers supplied by the University of Washington. Salinity samples were analyzed aboard ship using a Bissett-Berman Hytech Model 6220 portable laboratory salinometer. Unprotected reversing thermometers were used as an aid in determining depth of samples obtained below 200 meters.

The advertised accuracy and resolution, in that order, of the STD were:

Salinity	$\pm 0.05\text{‰}$ and $\pm 0.02\text{‰}$
Temperature	$\pm 0.05^{\circ}\text{C.}$ and $\pm 0.05^{\circ}\text{C.}^*$
Depth	$\pm 0.25\%$ full scale and $\pm 0.10\%$ half scale.

Temperature and salinity data from the Nansen samples were accurate to within 0.02°C. and 0.02‰ . At no time did the temperatures and salinities obtained from the STD differ from those of the Nansen samples by more than the advertised accuracy of the STD. The differences were within the resolution of the STD except in the 0–20 m layer, where large vertical gradients in temperature and salinity caused difficulty in comparing information from Nansen and STD casts. The STD temperature and salinity data are believed to be as accurate as advertised, or to $\pm 0.05^{\circ}\text{C.}$ and $\pm 0.05\text{‰}$, except in the upper 20 m layer where accuracy may be lower.

Temperatures and salinities were read, at standard depths, from the STD traces and processed at the University of Washington.

OCEANOGRAPHIC RESULTS

The oceanographic results are presented as:

- a. Cross-sections, constructed from the STD traces, showing vertical distributions of temperature and salinity (figs. 2–19).
- b. Horizontal distributions of temperature and salinity at 10 m. depth (figs. 20–21).
- c. Dynamic topography (fig. 22).
- d. Geostrophic transports (Table I).
- e. Isentropic analysis (fig. 23).
- f. Envelopes of temperature-salinity curves (fig. 24).

*Standard accuracy of the temperature scale for these STD units is $\pm 0.1^{\circ}\text{C.}$ The more accurate temperature scale on the unit used was supplied by Bissett-Berman on a special order basis.

g. Oceanographic data from STD and Nansen casts in standard station format (Appendix A). Nansen cast numbers are preceded by "N", while STD cast numbers have no prefix.

The cross-sections (figs. 2–19) do not depict the upper 20 m. of the water column, since vertical gradients of temperature and salinity within this layer were too large to be portrayed clearly. The horizontal distribution of temperature and salinity in the upper 20 m of the water column is assumed to be represented by the temperature and salinity at 10 m. depth (figs. 20–21).

The Distribution of Temperature (figs. 2–10, 20)

Water below 175–200 m. in the northern Baffin Bay region exclusive of Smith and Jones sounds (sections A and C.) was characterized by temperatures above 0°C. A prominent warm core existed at 250–450 m. depth and was 100–200 m. shallower in north central Baffin Bay (sections B, D and E) than farther south and west (sections F, G, H and I). Maximum temperatures in the core (1.0 to 1.5°C.) were lower and exhibited greater horizontal variability in north central Baffin Bay than farther south ($>2.0^{\circ}\text{C.}$). Temperatures in Smith and Jones Sounds were below 0°C. throughout the water column.

Water above 175–200 m. was cold ($<0^{\circ}\text{C.}$) relative to the deeper water except in some areas (e.g. the westernmost part of section F) near the surface. A prominent cold ($<-1.5^{\circ}\text{C.}$) core at 100–150 m. depth was thicker (100–150 m.) in the southern part of northern Baffin Bay (sections F, G and H) and in Lancaster Sound (section I) than farther north (sections B, D, and E).

Temperatures in the 0–20 m. layer (fig. 20) were maximum ($>4^{\circ}\text{C.}$) in a lens east of Devon Island and decreased to minimum values ($<-1^{\circ}\text{C.}$) in the entrances of Smith and Jones Sounds, southeast Lancaster Sound and the region southwest of Cape York. The warm lens is a common summer feature (Muench, 1971a). The areas characterized by lower temperatures were covered by pack ice during the 1970 cruise, whereas the warm lens occupied an area of open water. This correlation suggests that the warming may have been due to insolation.

The Distribution of Salinity (figs. 11–19, 21)

Salinities varied from maximum values ($>34.5\text{‰}$) near the bottom of the southern portions of northern Baffin Bay (sections E, F, G and H) and in Lancaster Sound (section I) to minimum values ($<32.5\text{‰}$) in near-surface coastal areas (e.g. the western parts of section F and H) and in Smith Sound (section A). In the surface layers, salinity values were somewhat greater in the southern part of the study area ($>33.0\text{‰}$) than in the northern part ($<32.0\text{‰}$) (fig. 21).

The lack of appreciable horizontal salinity variations, relative to temperature, is similar to that found during previous summers, and is a major factor in the use of temperature as a means to trace water masses in the region (Muench, 1971a).

The Circulation

The total circulation is the sum of both baroclinic (internal) and barotropic (external) modes. The baroclinic circulation is presented both as a dynamic topography (fig. 22) and as computed volume transports (Table I). Both were obtained from the oceanographic data using the dynamic method and are subject to certain errors inherent in that method. These errors include:

a. Errors in computation of dynamic depth anomaly due to inaccuracy in measurement of temperature and salinity and its effect on density determination. If all errors in temperature and salinity measurement were maximum and in the same sense, the resulting dynamic depth errors would be greater than the differences involved. It is assumed, since there is no reason to believe otherwise, that the errors occurred in a random fashion and cancelled each other.

b. Dynamic depth variations not connected with the baroclinic circulation due to internal waves on the pycnocline. The data were insufficient to determine presence or absence of internal waves and allow an estimate of the error induced by them.

c. Errors due to the neglect, inherent in the dynamic method, of non-linear, frictional, and time-dependent terms in the equations of motion. The data were insufficient for evaluation of these terms.

Use of Defant's (1961) method revealed, as it did in data from previous summers (Muench,

1971a), that a suitable level of no motion occurred at 500 db. Distinguishable features of the surface topography relative to 500 db (fig. 22) include a variable southward to westward flow in the north central region west of Thule, a southerly flow in the southwest region off Baffin Island, and net eastward flows through Jones and Lancaster Sounds. A dynamic topography of the 200 db relative to the 500 db surface (not shown) indicated a baroclinic circulation at 200 db similar to that at the surface.

Geostrophic transports through sections A, C (southern channel only), I, and H were computed. The remaining sections were too shallow to allow computation relative to a reference level determined by Defant's method. The data from the southern channel of section C were limited to the northern and central portions of the channel and may not be representative. The results (Table I) corroborate the net eastward flows through Lancaster and Jones Sounds and the net southward flow through the system suggested by the dynamic topography. In addition, a small but net southward baroclinic flow was occurring through Smith Sound. Lack of a volume balance may have been due to any or all of the errors noted above. These computations neglected, moreover, any barotropic transports which may have been occurring and which were of unknown magnitude.

Both the dynamic topography and the net southward flow through the system, compared to a previous mean of $2.0 \times 10^6 \text{ m}^3/\text{sec}$ (Muench, 1971a), suggest that the baroclinic flow in summer 1970 was weak throughout most of the region relative to that during preceding summers. On the other hand, the transport through Lancaster Sound appeared to be large relative to that for preceding summers.

TABLE I
Sectional Transport

<i>Section</i>	<i>Location</i>	<i>Transport</i> ($\text{m}^3/\text{sec} \times 10^6$)
A	Smith Sound	0.10 southward
C	Jones Sound (Lady Anne Str.)	0.30 eastward
I	Lancaster Sound	0.96 eastward
H	S. edge of region	0.98 southward

Dynamic computations were inadequate for determination of baroclinic currents at 300–500 m. depth and below. However, the 27.5

sigma-t surface occurred between 300 and 400 m., and the diagram depicting temperature on this isentropic surface (fig. 23) suggests that some total flow was occurring at these depths.

Water Masses

Water masses in the northern Baffin Bay region have been defined on the basis of temperature (Muench, 1971a) as:

a. Baffin Bay Deep Water, extending from about 1400 m. depth to the bottom of the basin, characterized by temperature below 0° C. and salinity of about 34.5‰.

b. Baffin Bay Atlantic Water, extending from 100–300 m. depth down to the top of the Deep Water layer, characterized by temperatures above 0° C. and salinities between about 34.2 and 34.5‰.

c. Baffin Bay Arctic Water extending from the surface to the top of the Atlantic Water layer, characterized by temperatures below 0° C. (except near the surface, where higher temperatures may occur locally due to warming from above), and salinity values from less than 31‰ to about 34.4‰.

Temperature-salinity (T–S) curves prepared using the summer 1970 data were compiled and their envelopes constructed (fig. 24a–d). The envelope for northeastern Baffin Bay (fig. 24a) indicates the presence of Baffin Bay Atlantic and Arctic Waters. Baffin Bay Deep Water occurs at greater depths than were sampled and is not indicated on the envelopes. A wide scatter in T–S values in the 0–50 m. layer relative to those values at greater depths was a consequence of nonuniform summer warming and melt water addition.

The low temperatures above 100 m. depth and low salinities relative to those at the same depths farther south indicate that the water in Smith Sound (fig. 24b) was of Arctic Ocean origin. This agrees with the computed values of net southward transport through Smith Sound (Table I).

Northwest Baffin Bay (fig. 24c) exhibited a temperature-salinity structure similar to that in northeastern Baffin Bay. Greater temperature variations at the temperature maximum in northwest than in northeast Baffin Bay suggest

an admixture of colder Arctic Ocean Water into the water occurring in northwest Baffin Bay.

Lancaster Sound (fig. 24d) contained water similar to that in Northwest Baffin Bay. Lower temperatures above 100 m. in Lancaster Sound than to the east reflect the net eastward flow of colder water from the Arctic Ocean.

The temperature-salinity properties show, as during previous summers, a net inward flow via Smith, Jones, and Lancaster Sounds leading to a net southward flow through the system.

SUMMARY AND CONCLUSIONS

The summer 1970 oceanographic survey revealed a relatively warm, saline lower layer and a colder, less saline upper layer in northern Baffin Bay. An inflow of Arctic Ocean Water occurred through Smith, Jones, and Lancaster Sounds and fed a net southward flow through the region. Mixture between south-flowing Arctic Ocean Water from Smith Sound and Baffin Bay Atlantic Water resulted in slight attenuation of the temperature at the warm core. Lowering of salinity within the Baffin Bay Arctic Water in northwestern Baffin Bay was due to an admixture of Arctic Ocean Water from Lancaster Sound.

The gross physical oceanography of the northern Baffin Bay region in 1970 was similar to that observed during previous summers. Minor variations in the hydrographic structure and circulation did not appear significant.

REFERENCES

- Defant, A. (1961) Volume I of Physical Oceanography. MacMillan Company, New York. Pp. 492–502.
- Muench, R. D. (1971a) The physical oceanography of the northern Baffin Bay region, The Baffin Bay—North Water Project Scientific Report No. 1, January 1971. Arctic Institute, Washington, 150 pp.
- Muench, R. D. (1971b) Oceanographic conditions in Smith Sound and northern Baffin Bay, September 1968, U. S. Coast Guard Oceanographic Report No. 37, CG-373–37.
- Muench, R. D. (1971c) Oceanographic conditions in the Melville Bay—Carey Islands region, northern Baffin Bay, 17 September–2 October 1969, U. S. Coast Guard Oceanographic Report No. 44, CG-373–44.

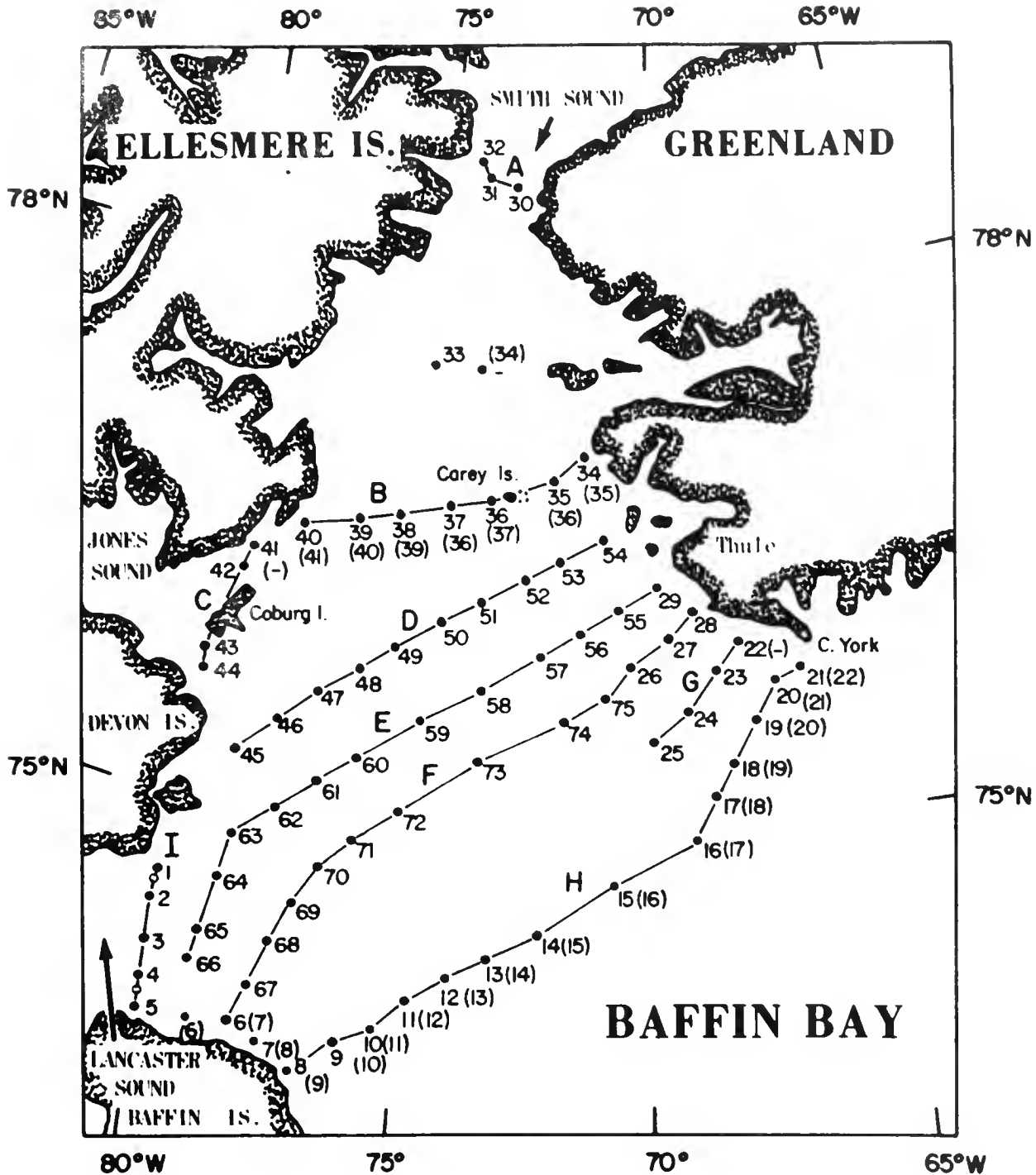


FIGURE 1. Locations of oceanographic stations occupied during the July–August 1970 oceanographic program (solid dots) and current meters moored in Lancaster Sound (open circles). Nonparenthesized numbers refer to STD stations, while parenthesized numbers are used to refer to Nansen stations in cases where the numbers were different from those of the STD stations. A dash (–) indicates that either a Nansen or STD station was not made at that location.

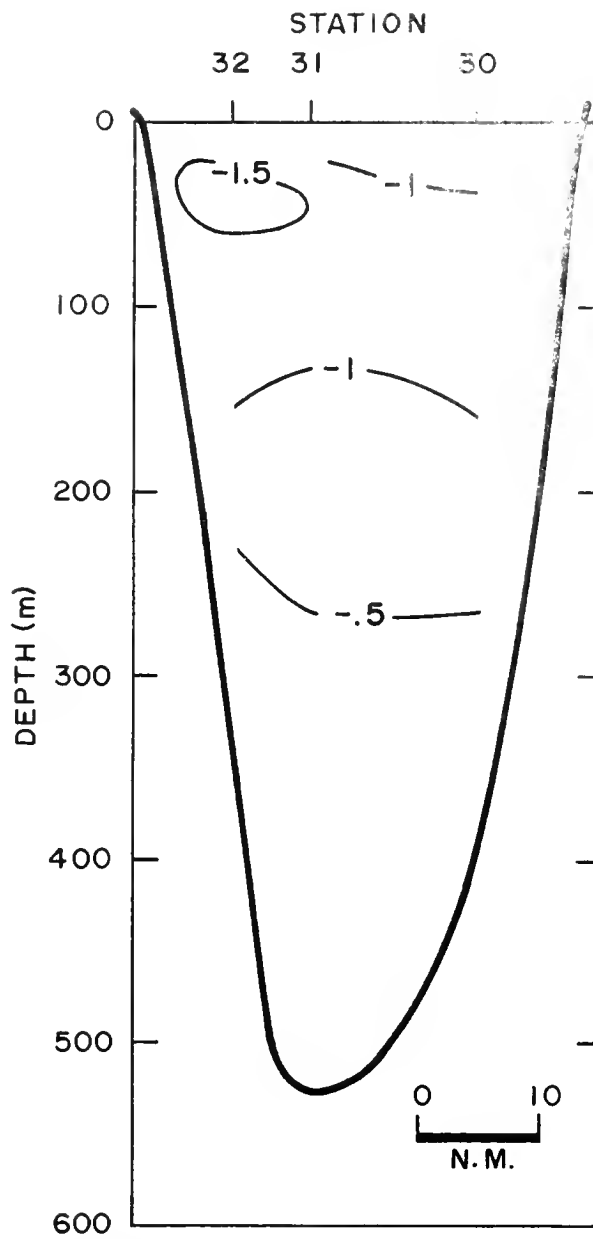


FIGURE 2. Vertical distribution of temperature; section A.

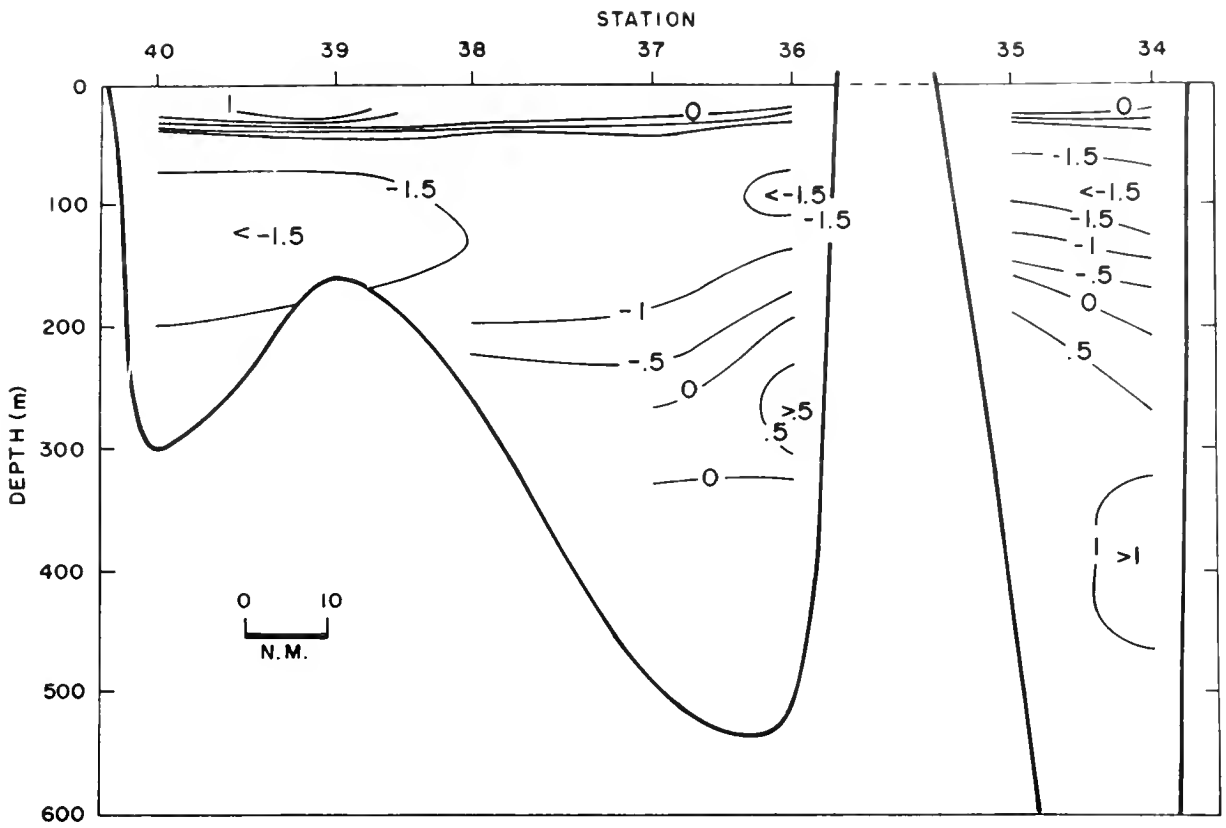


FIGURE 3. Vertical distribution of temperature; section B.

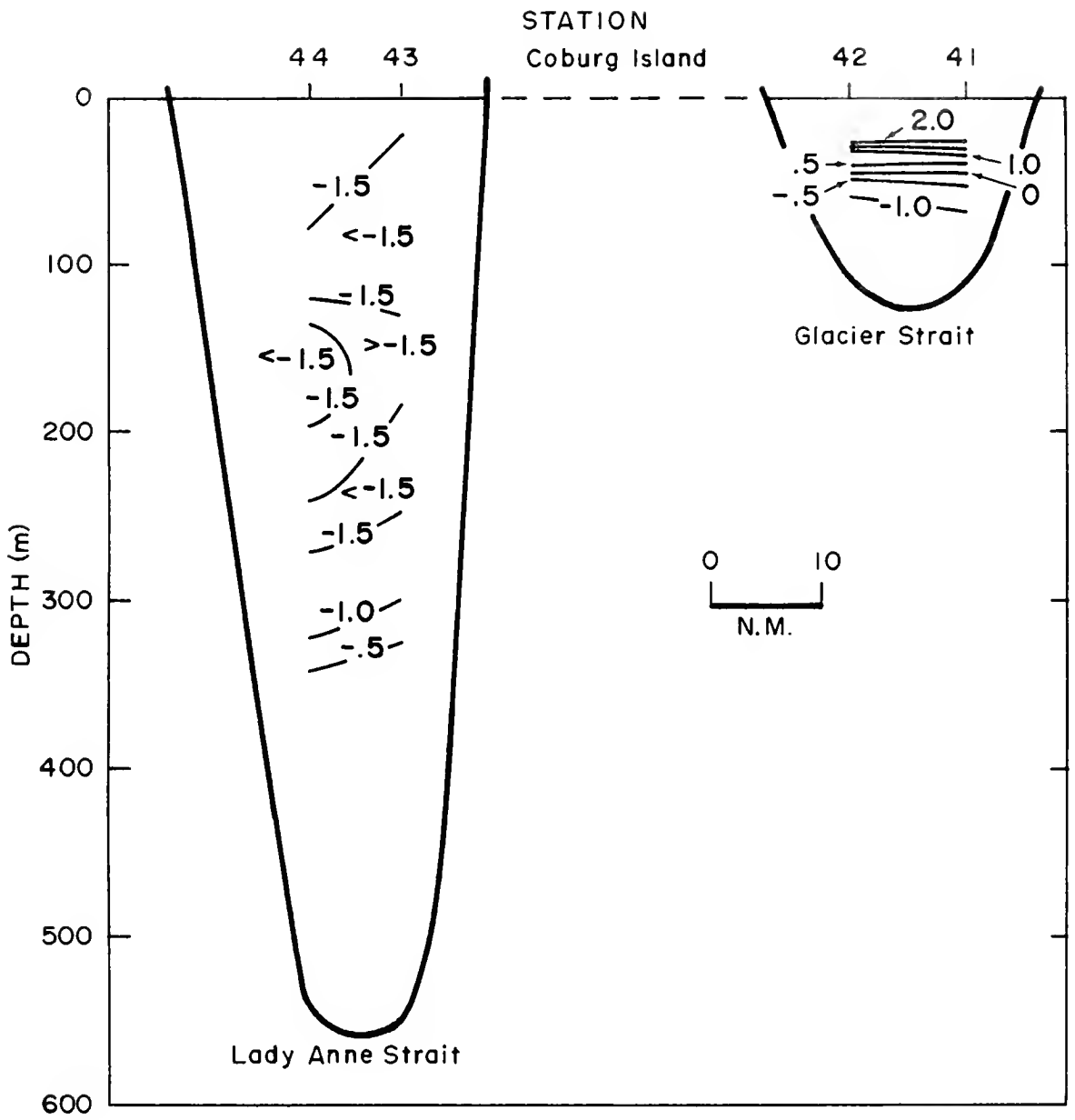


FIGURE 4. Vertical distribution of temperature; section C.

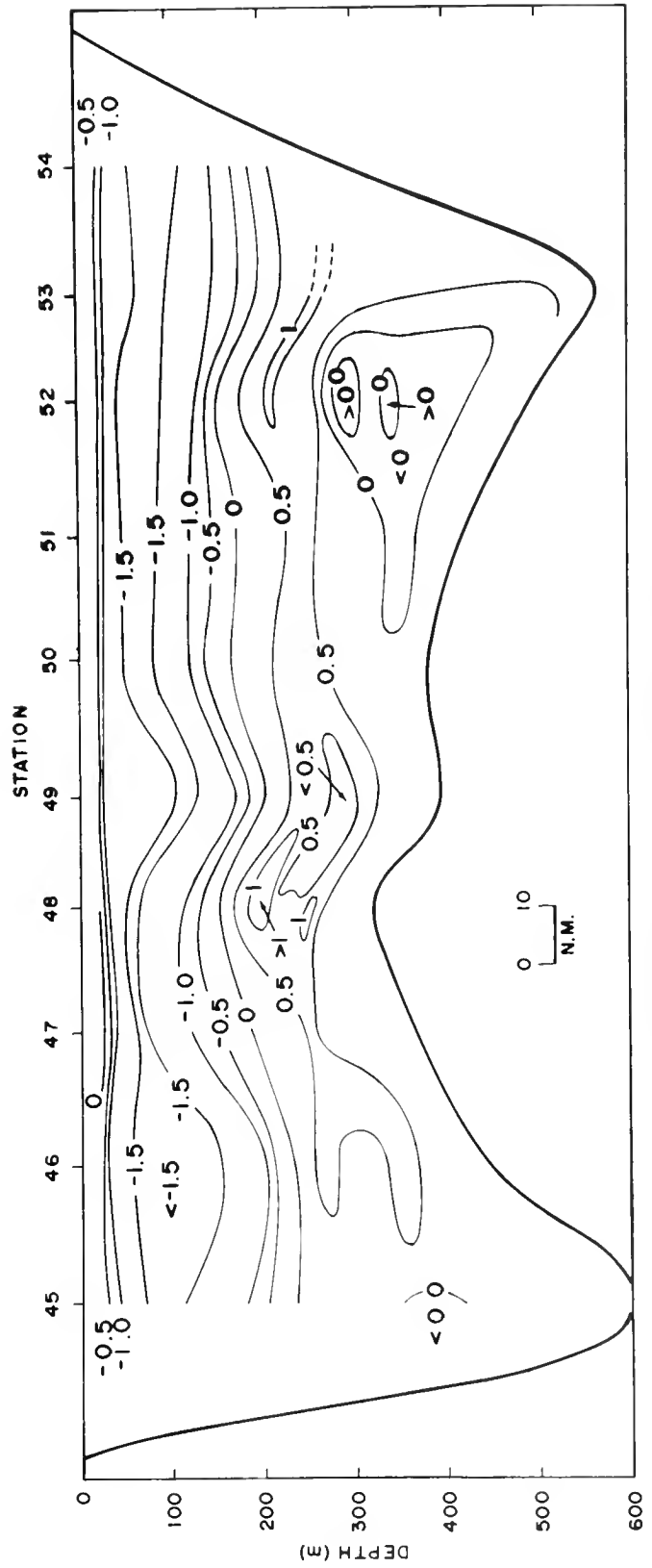


FIGURE 5. Vertical distribution of temperature; section D

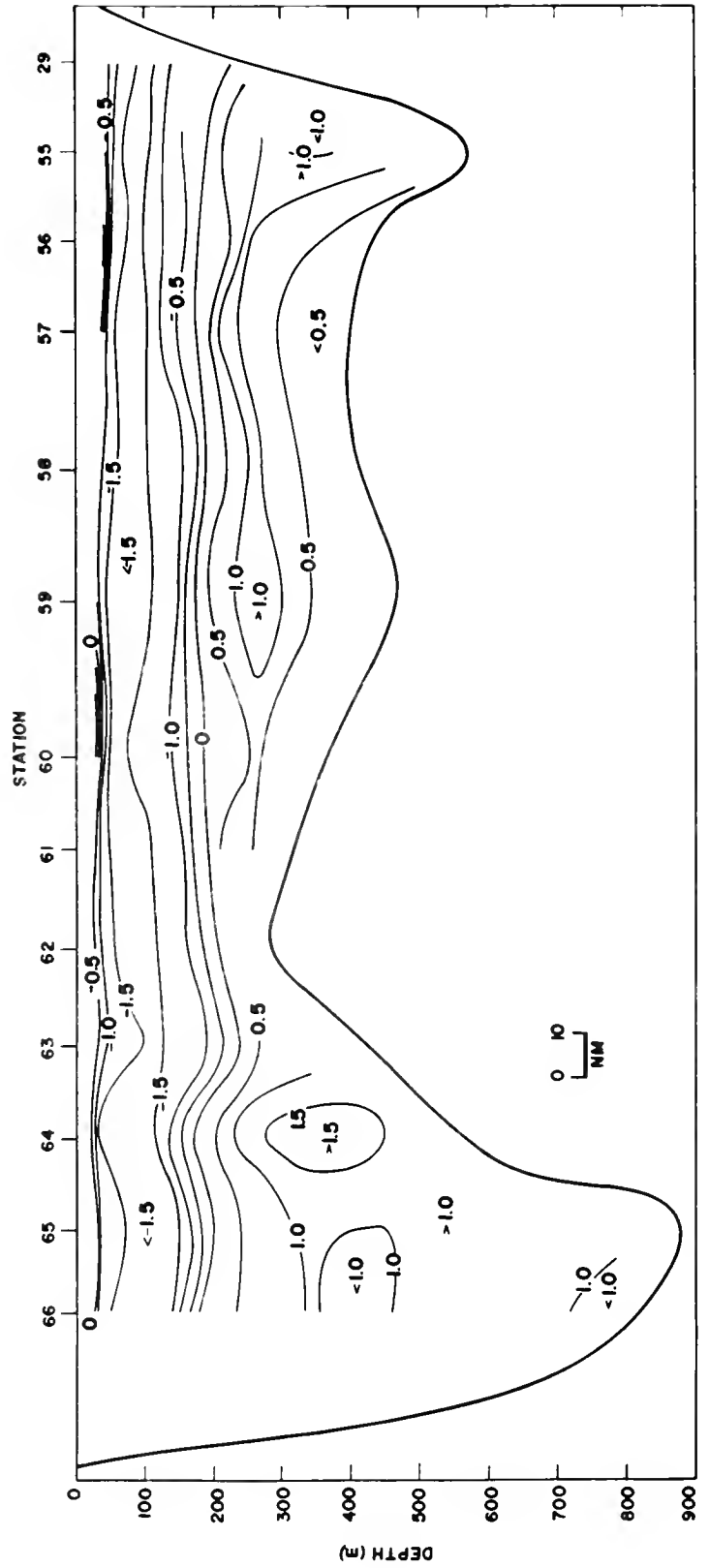


FIGURE 6. Vertical distribution of temperature; section E.

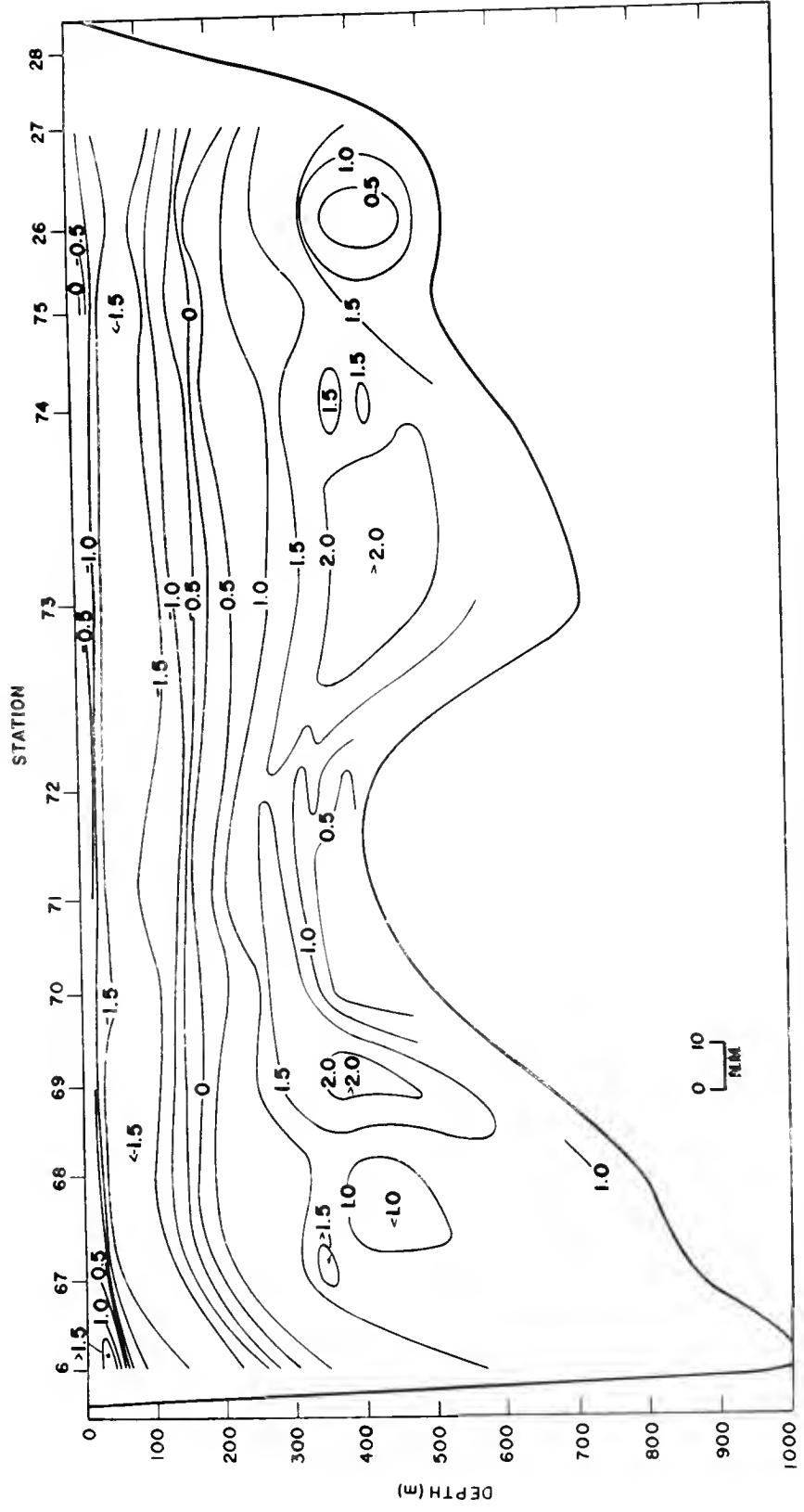


FIGURE 7. Vertical distribution of temperature; section F.

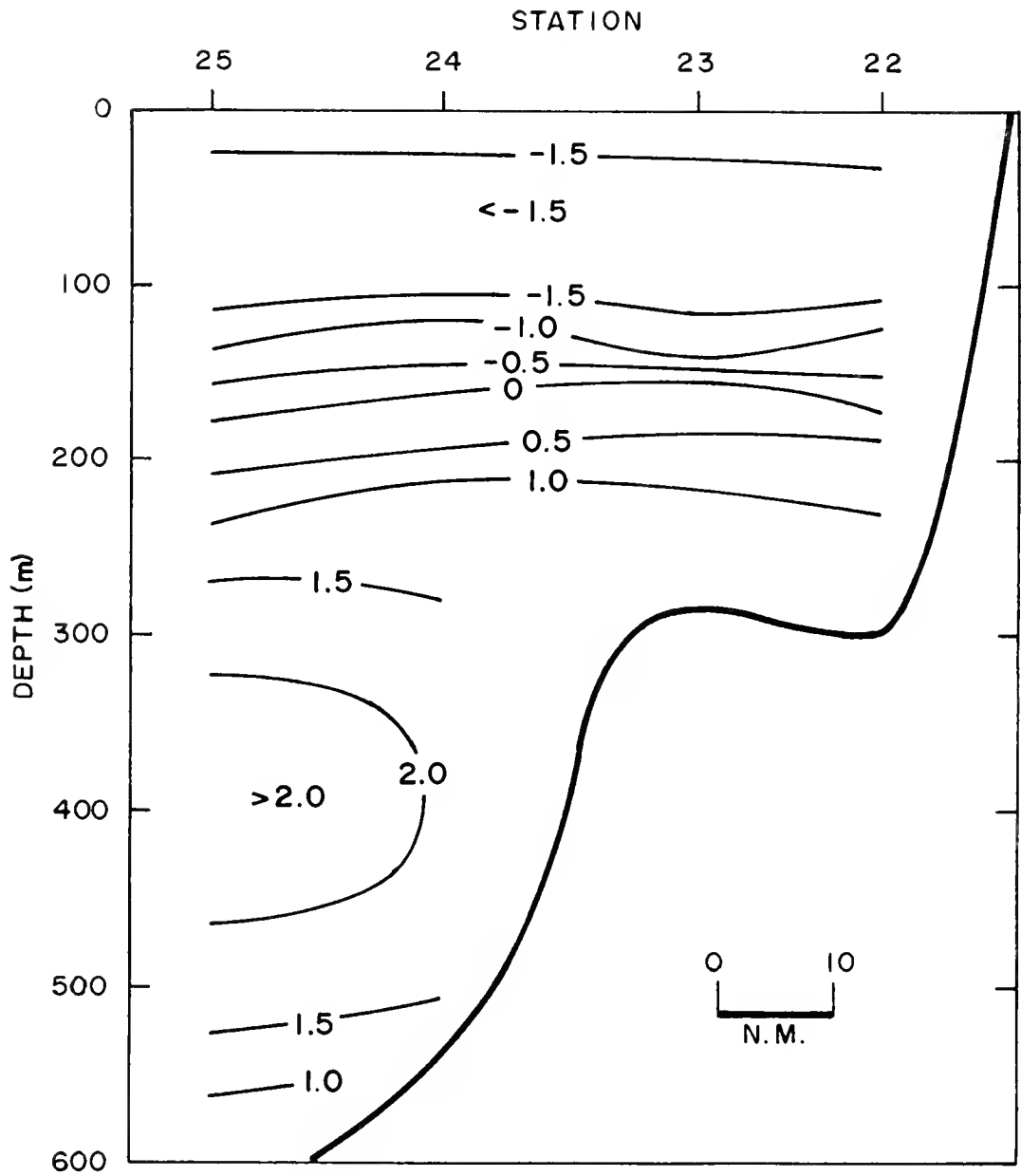


FIGURE 8. Vertical distribution of temperature; section G.

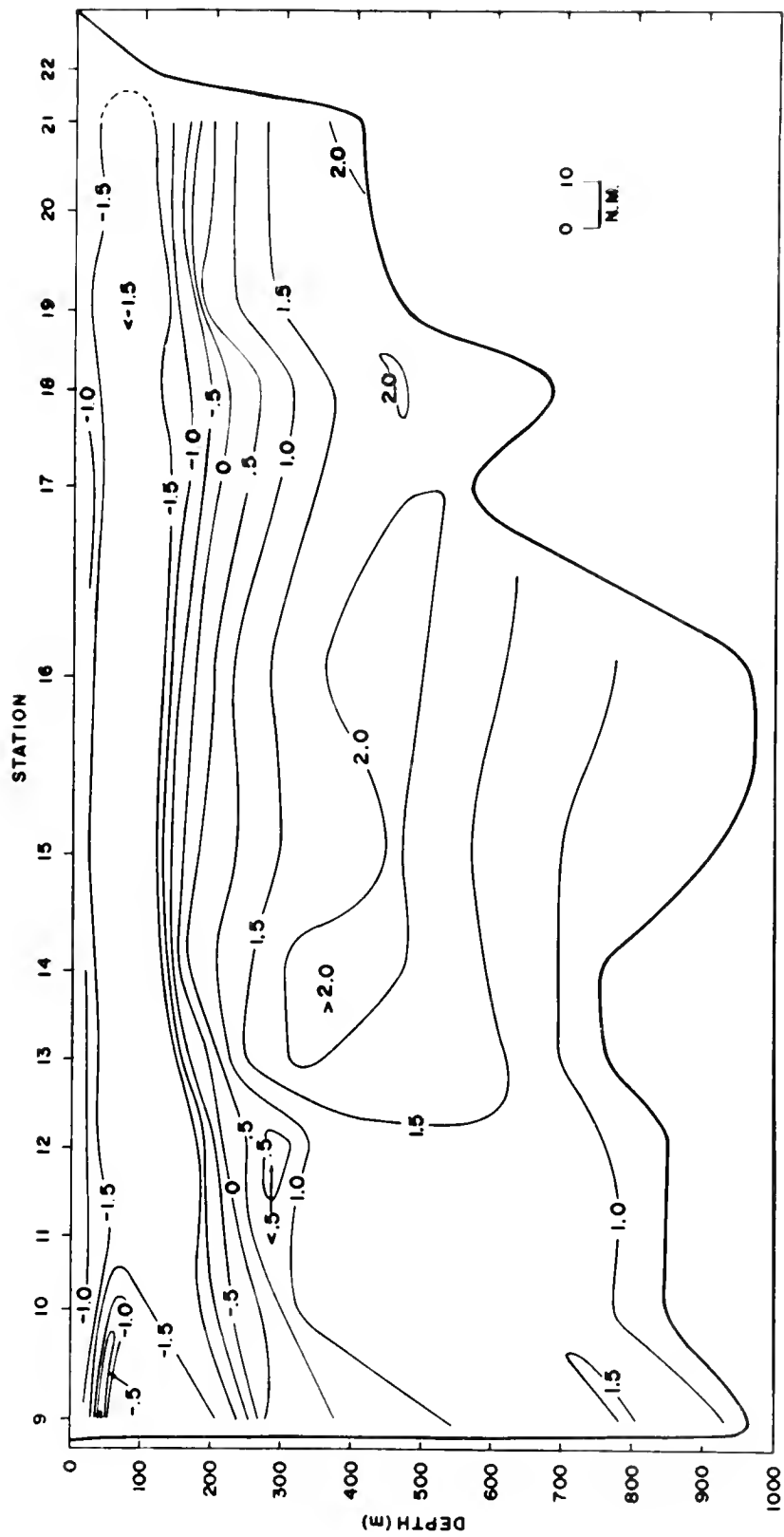


FIGURE 9. Vertical distribution of temperature; section H.

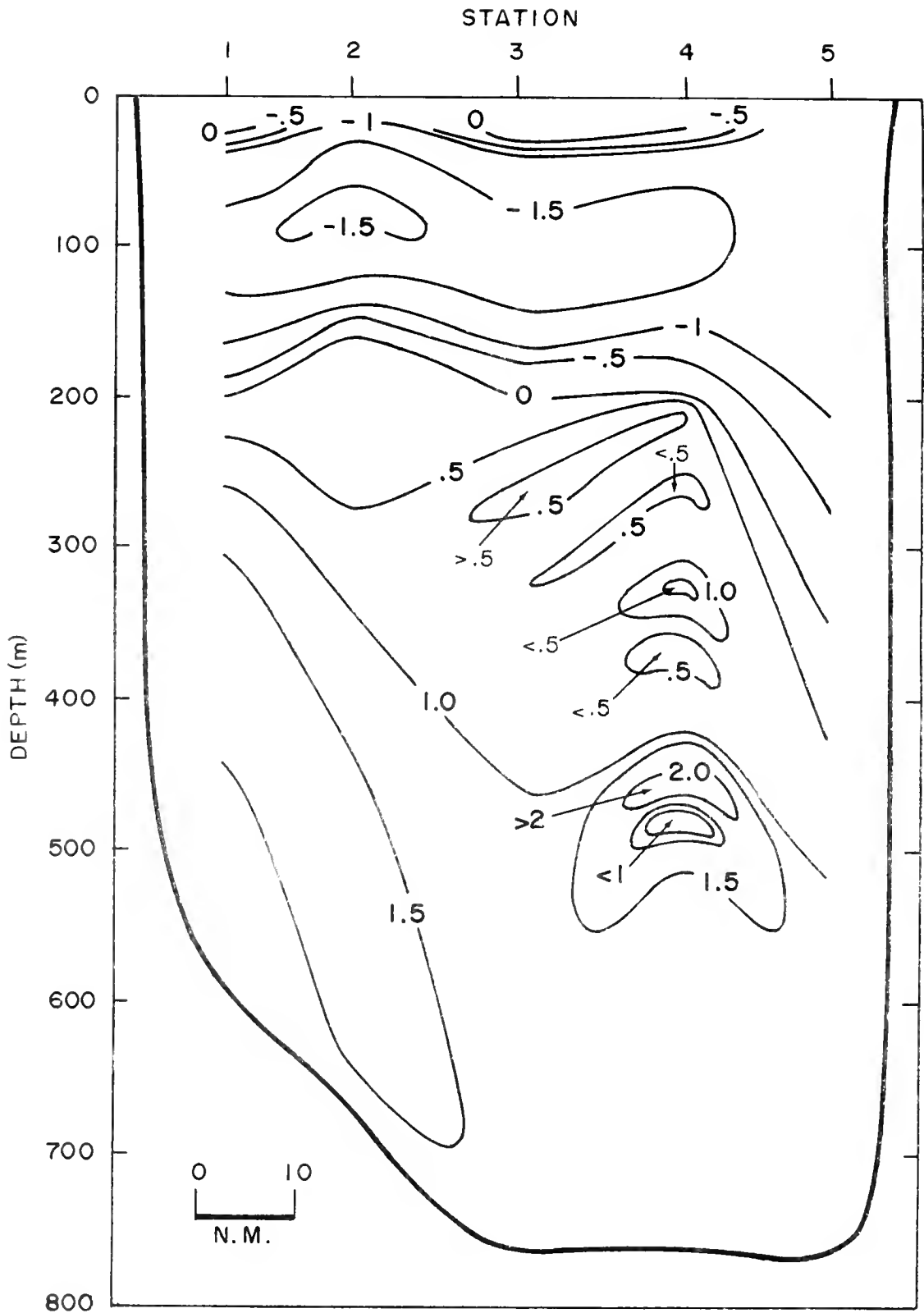


FIGURE 10. Vertical distribution of temperature; section I.

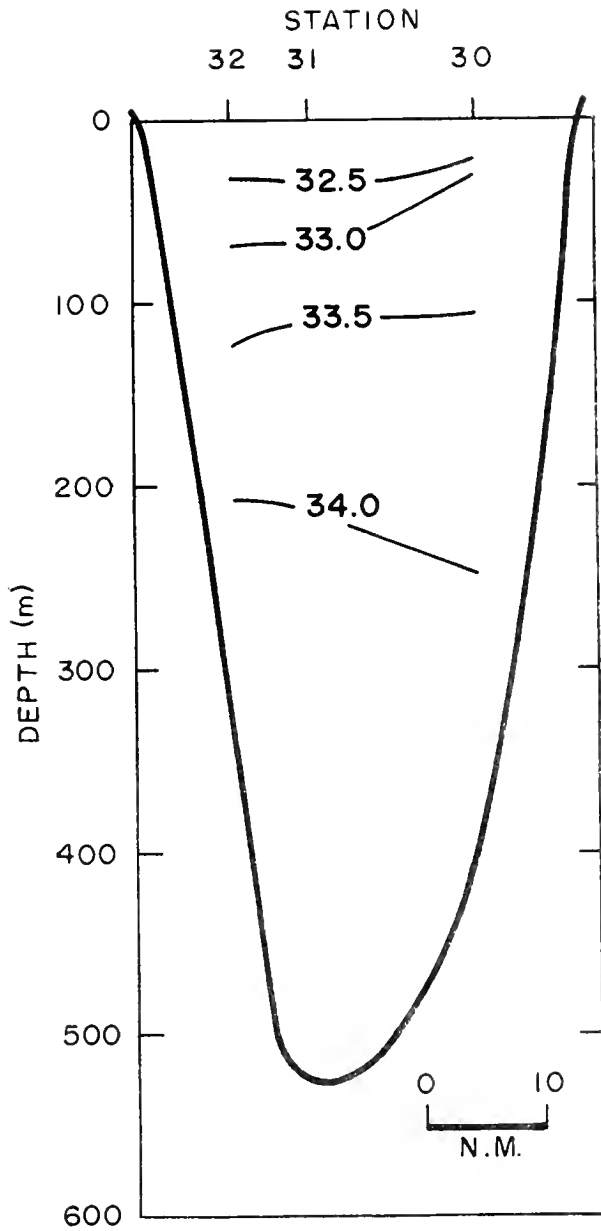


FIGURE 11. Vertical distribution of salinity; section A.

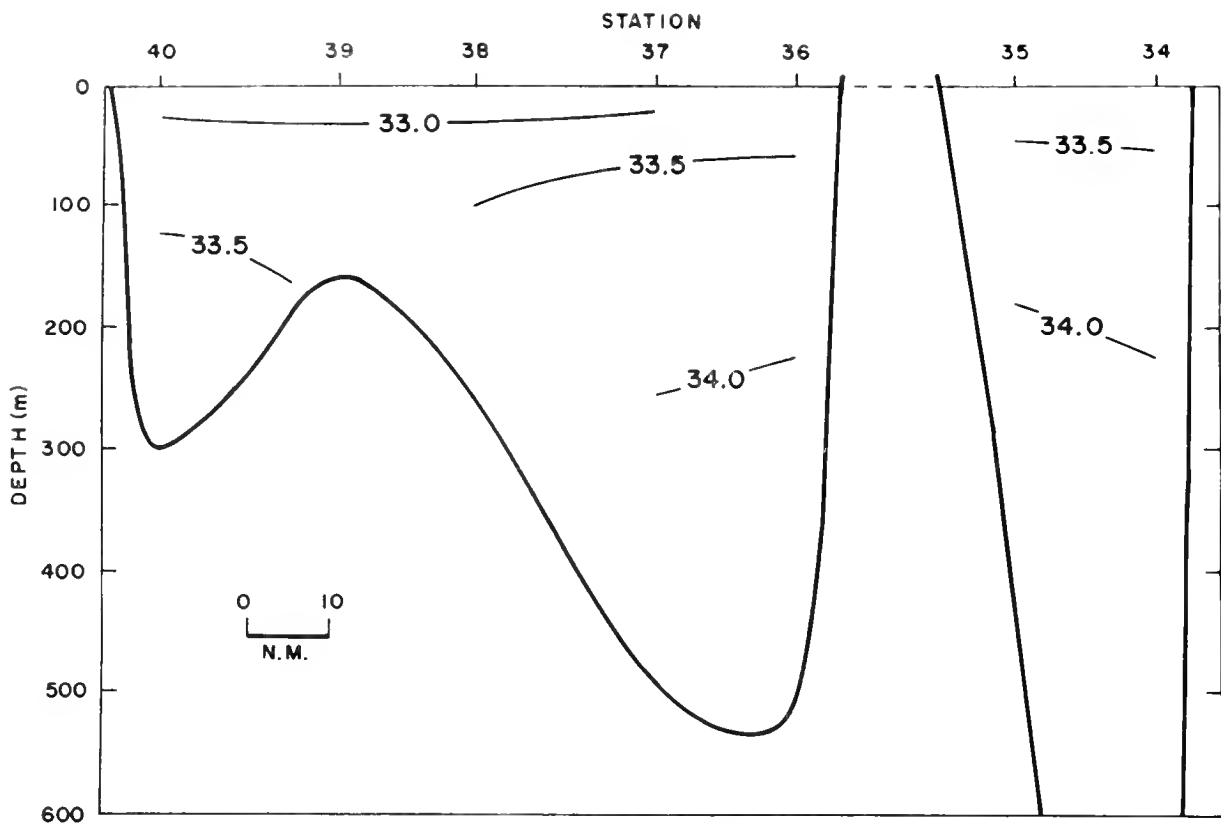


FIGURE 12. Vertical distribution of salinity; section B.

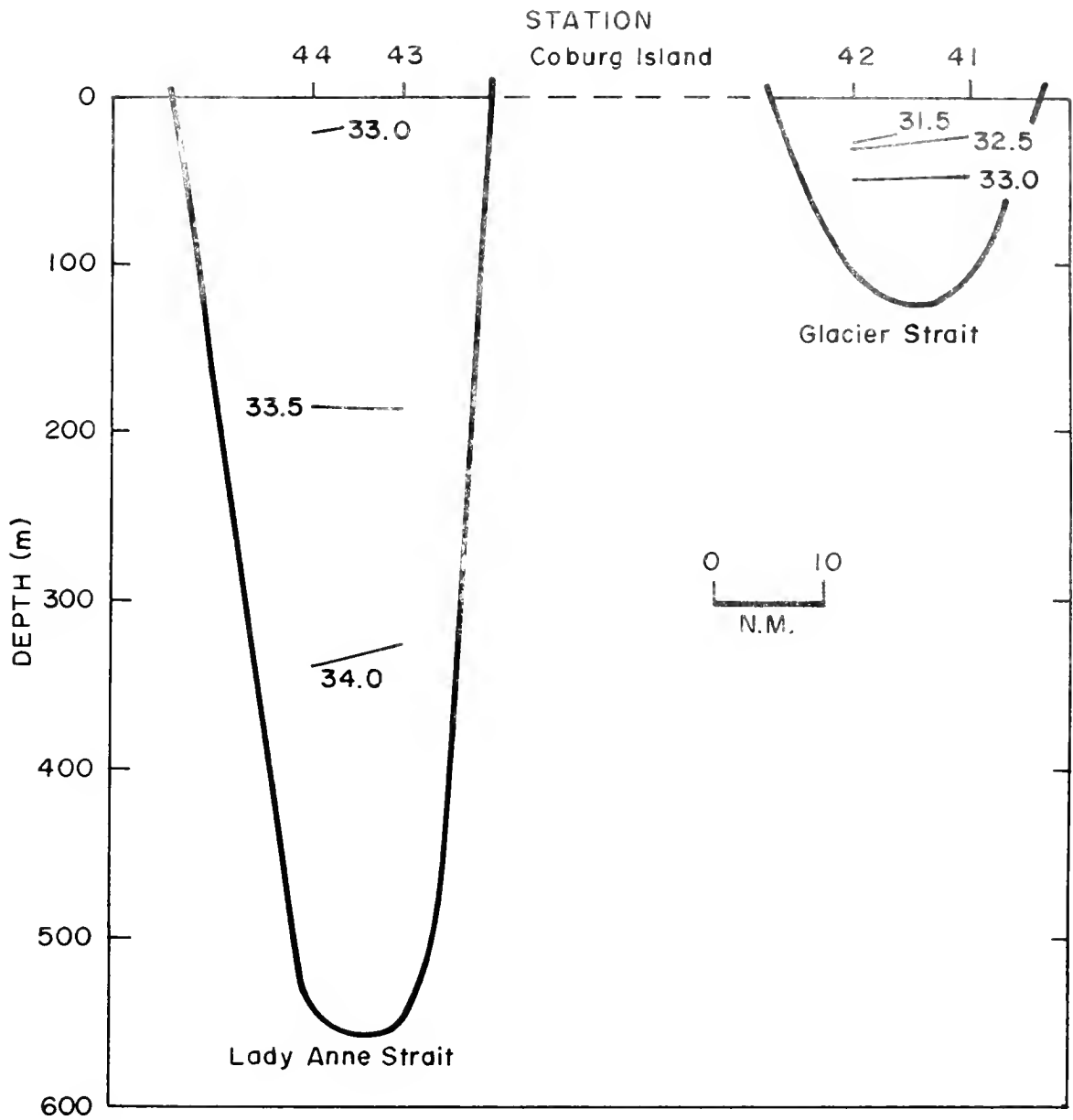


FIGURE 13. Vertical distribution of salinity; section C.

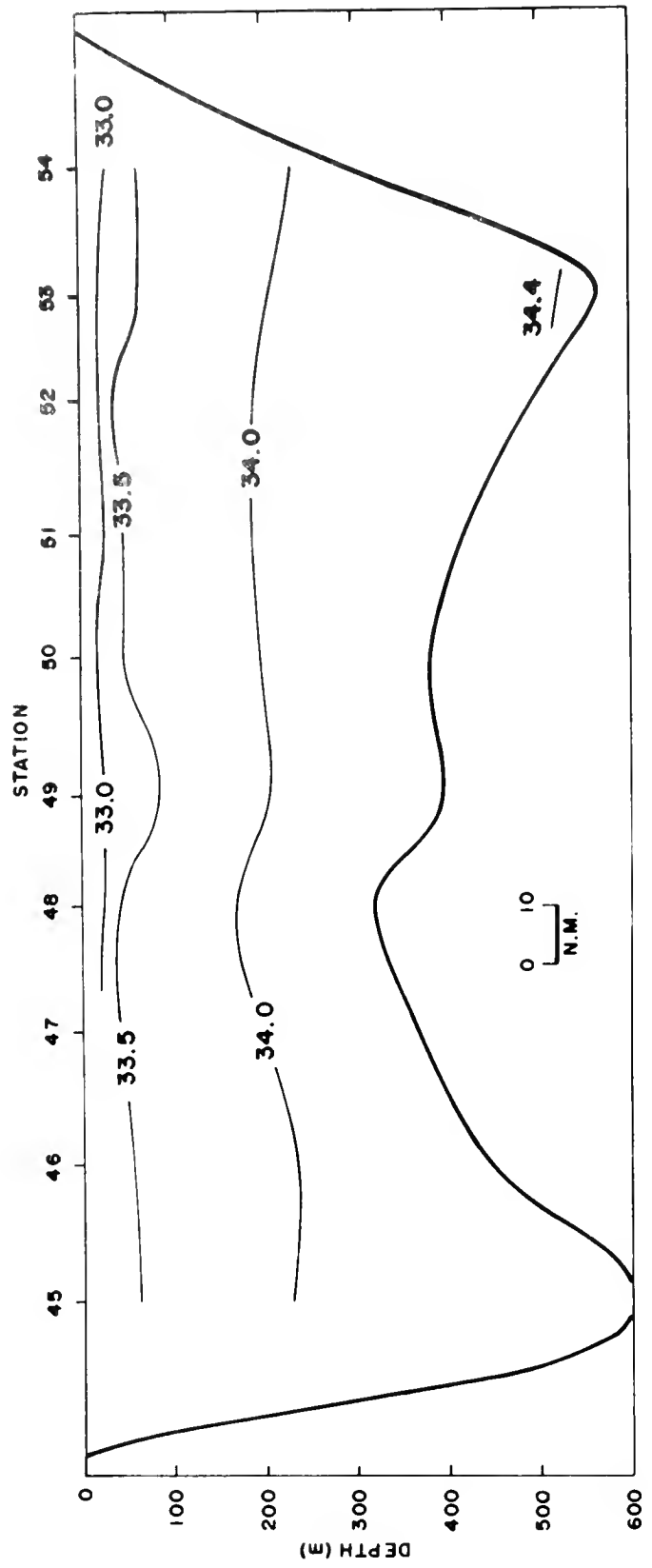


FIGURE 14. Vertical distribution of salinity; section D.

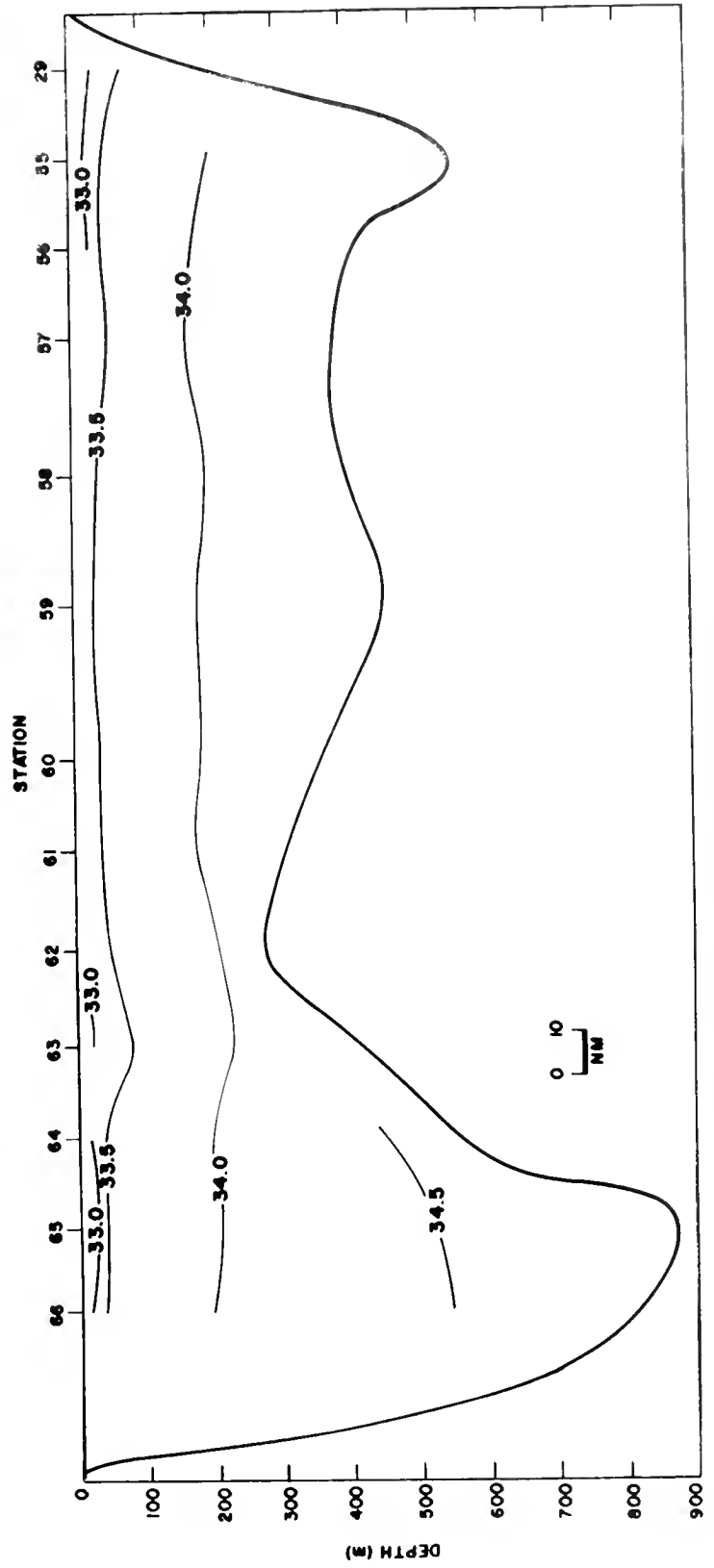


FIGURE 15. Vertical distribution of salinity; section E.

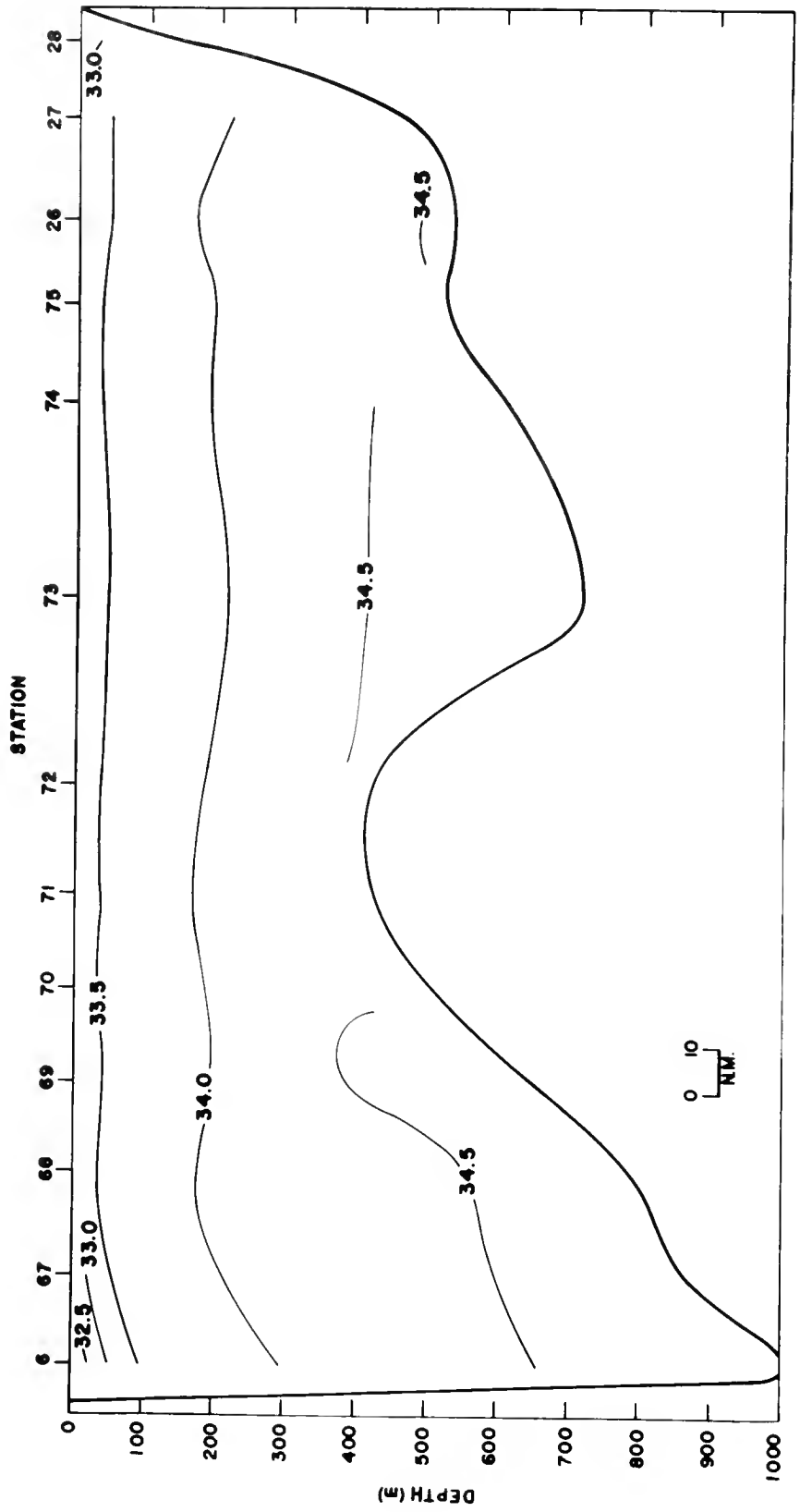


FIGURE 16. Vertical distribution of salinity; section F.

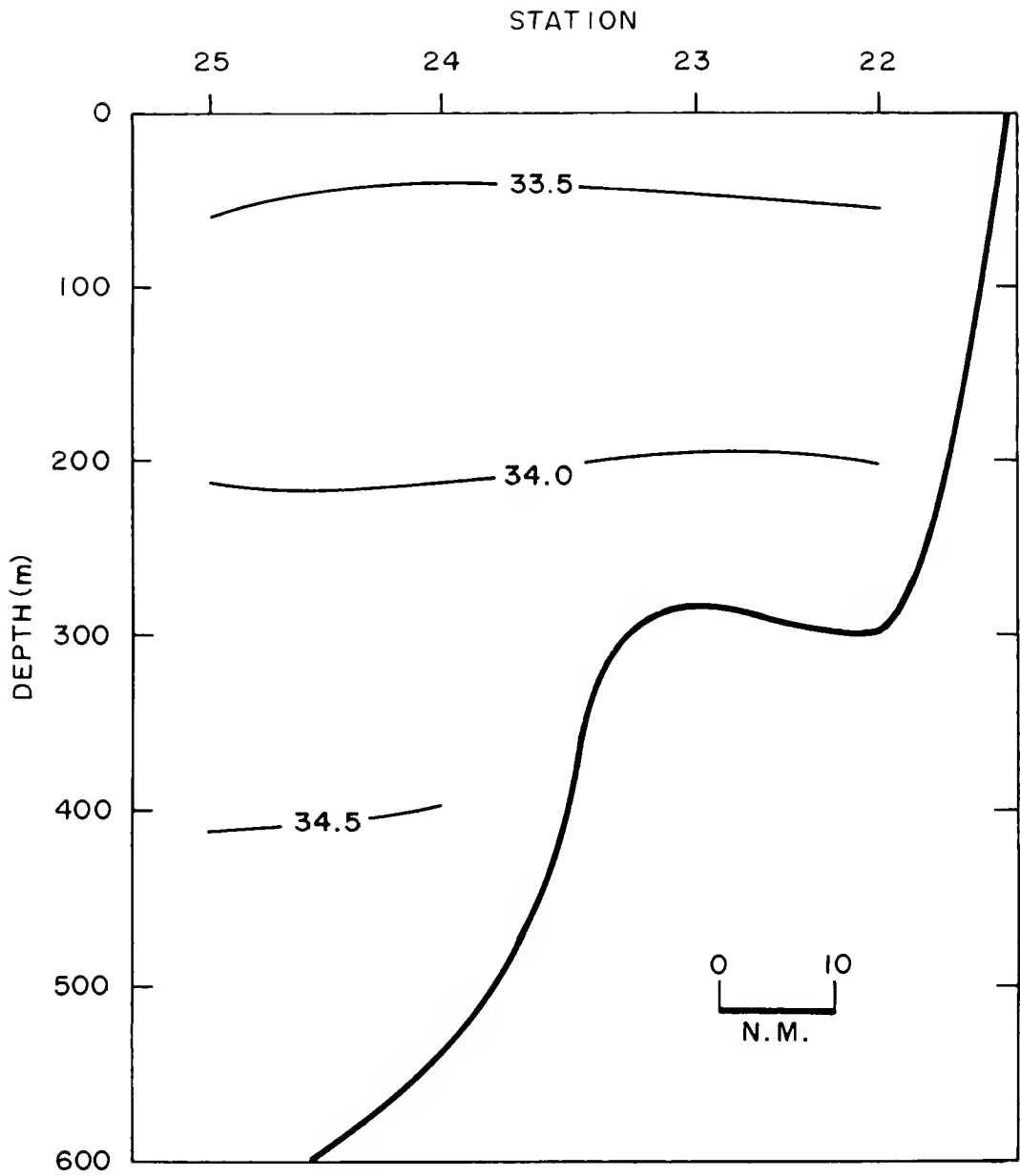


FIGURE 17. Vertical distribution of salinity; section G.

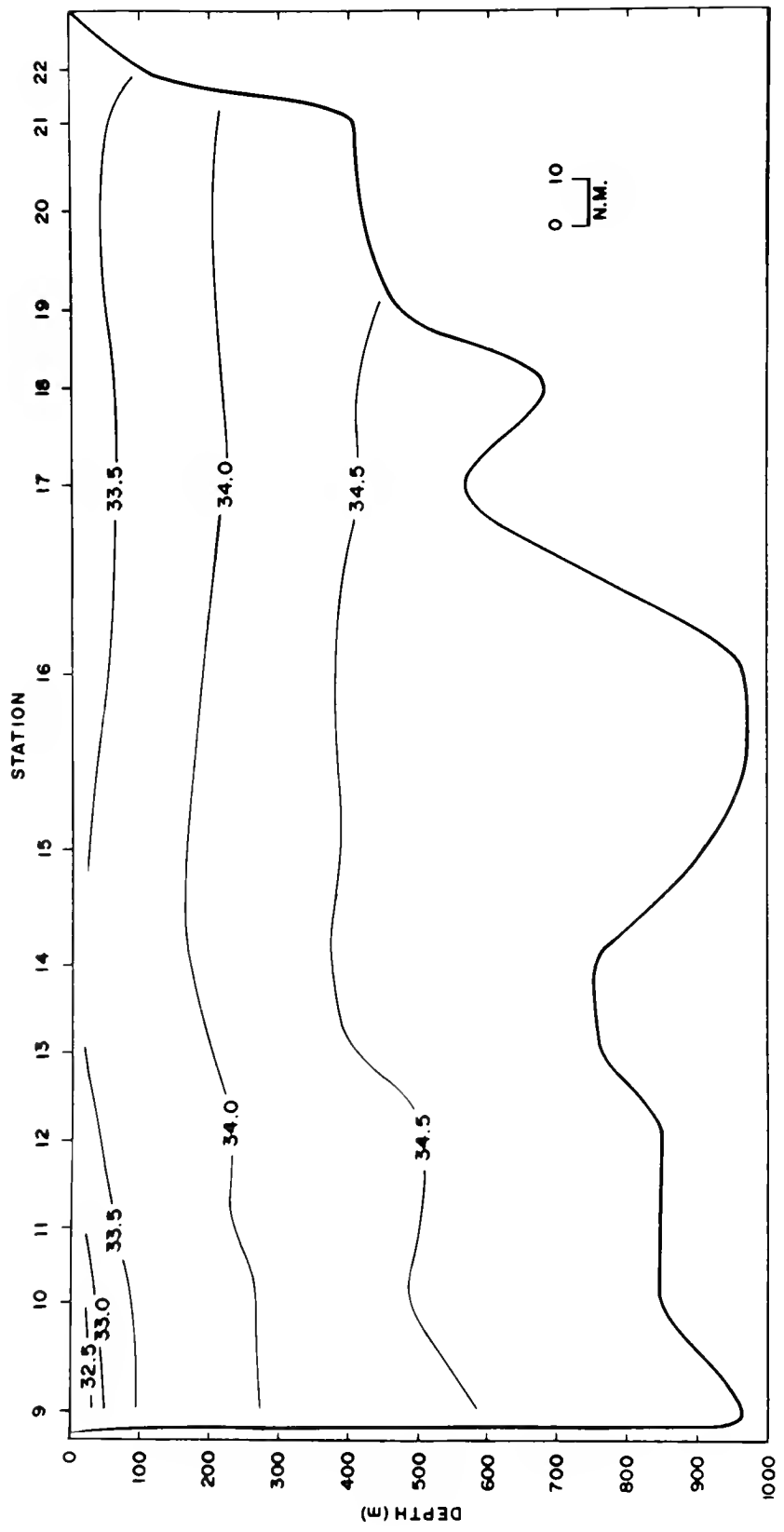


FIGURE 18. Vertical distribution of salinity; section H.

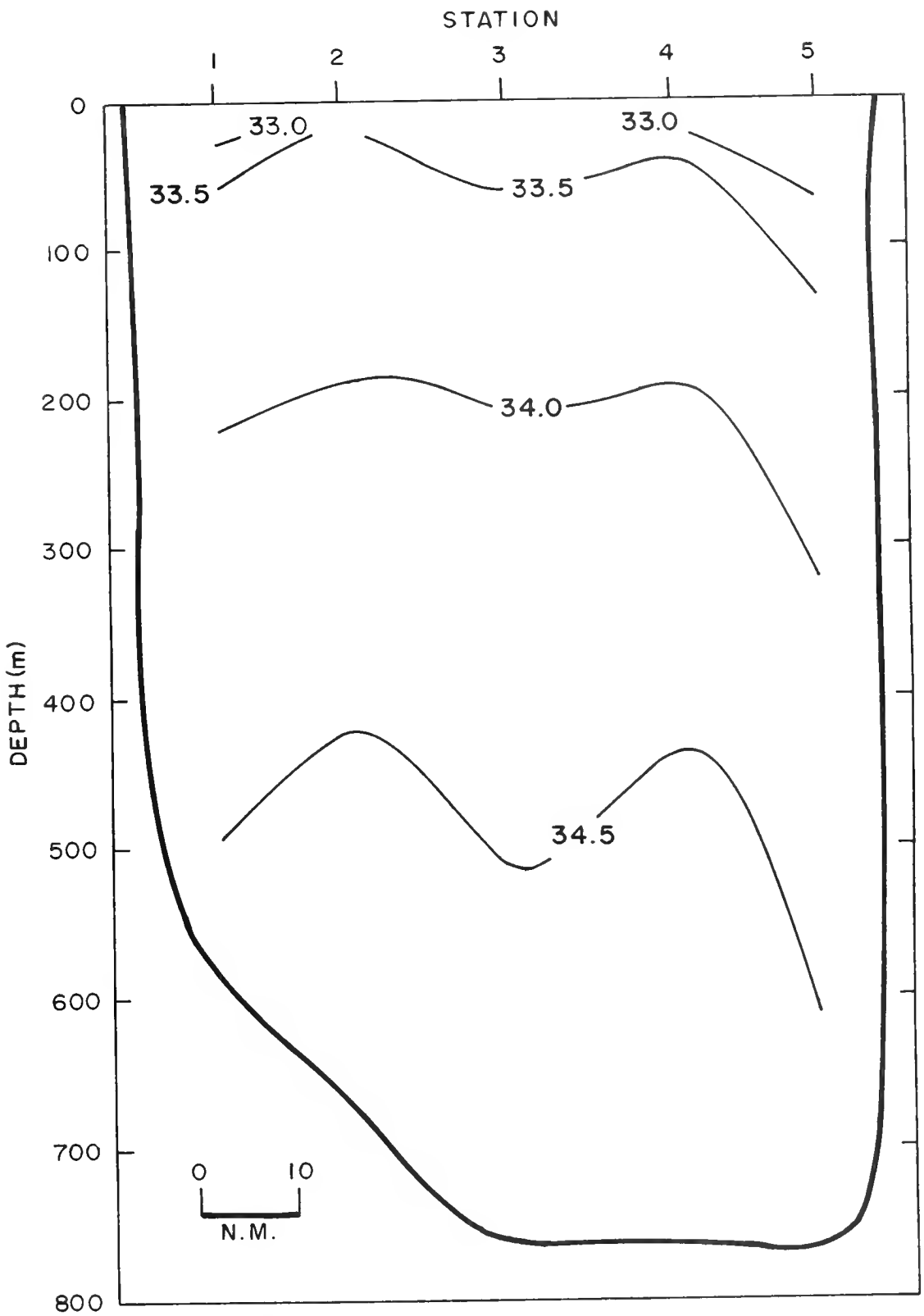


FIGURE 19. Vertical distribution of salinity; section I.

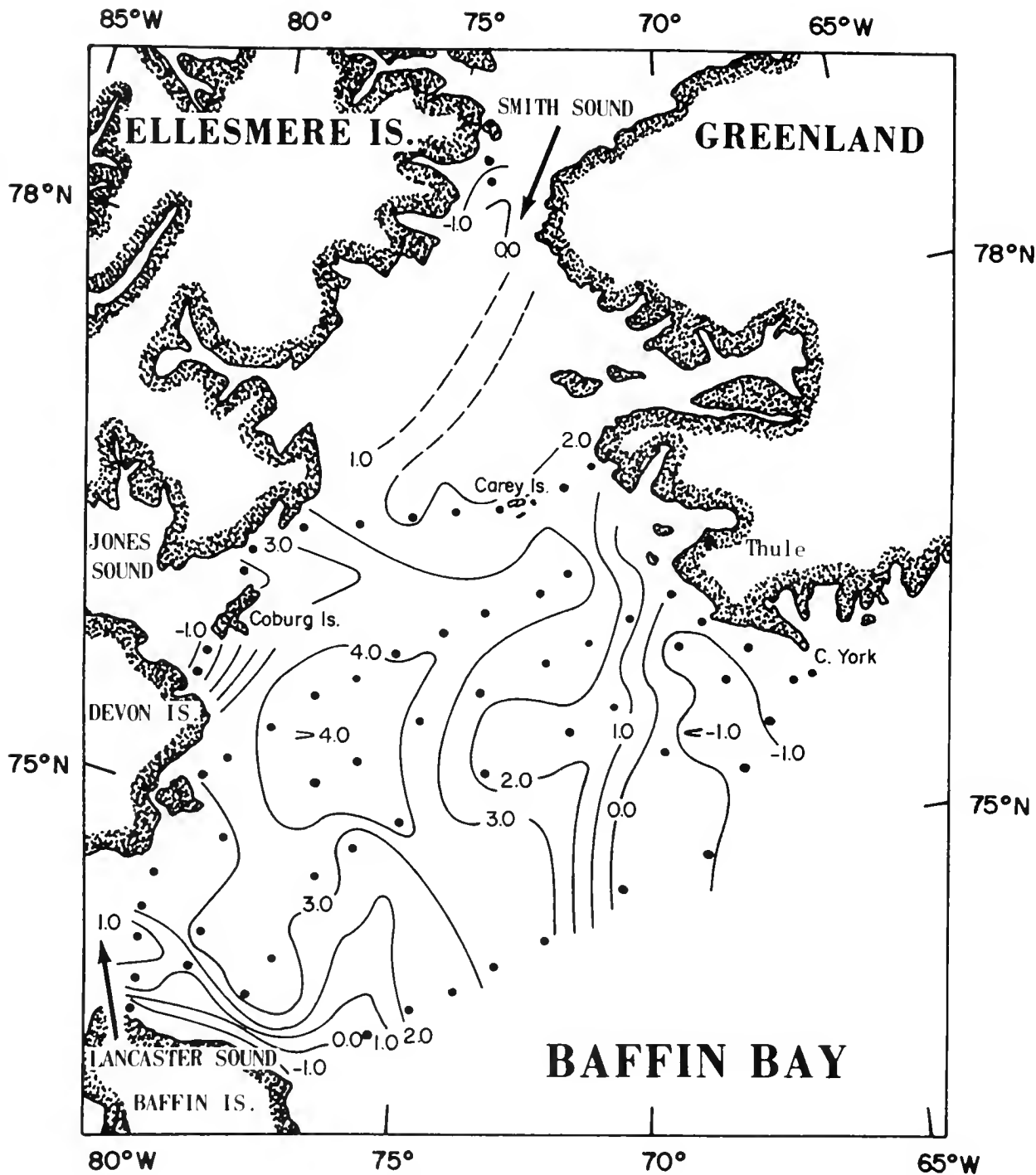


FIGURE 20. Horizontal distribution of temperature at 10 m. depth. Contour interval = 1°C.

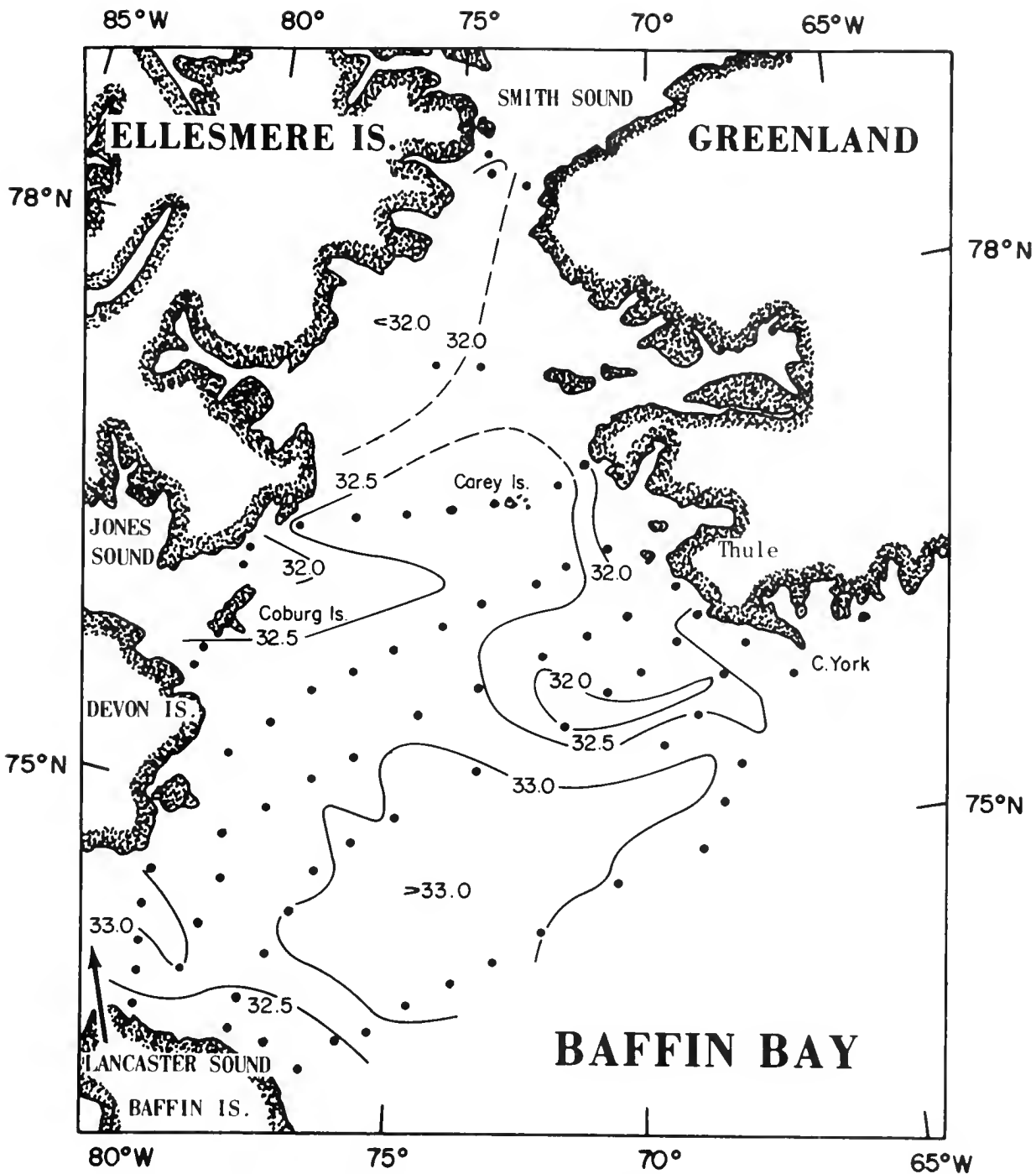


FIGURE 21. Horizontal distribution of salinity at 10 m. depth. Contour interval = 0.5‰

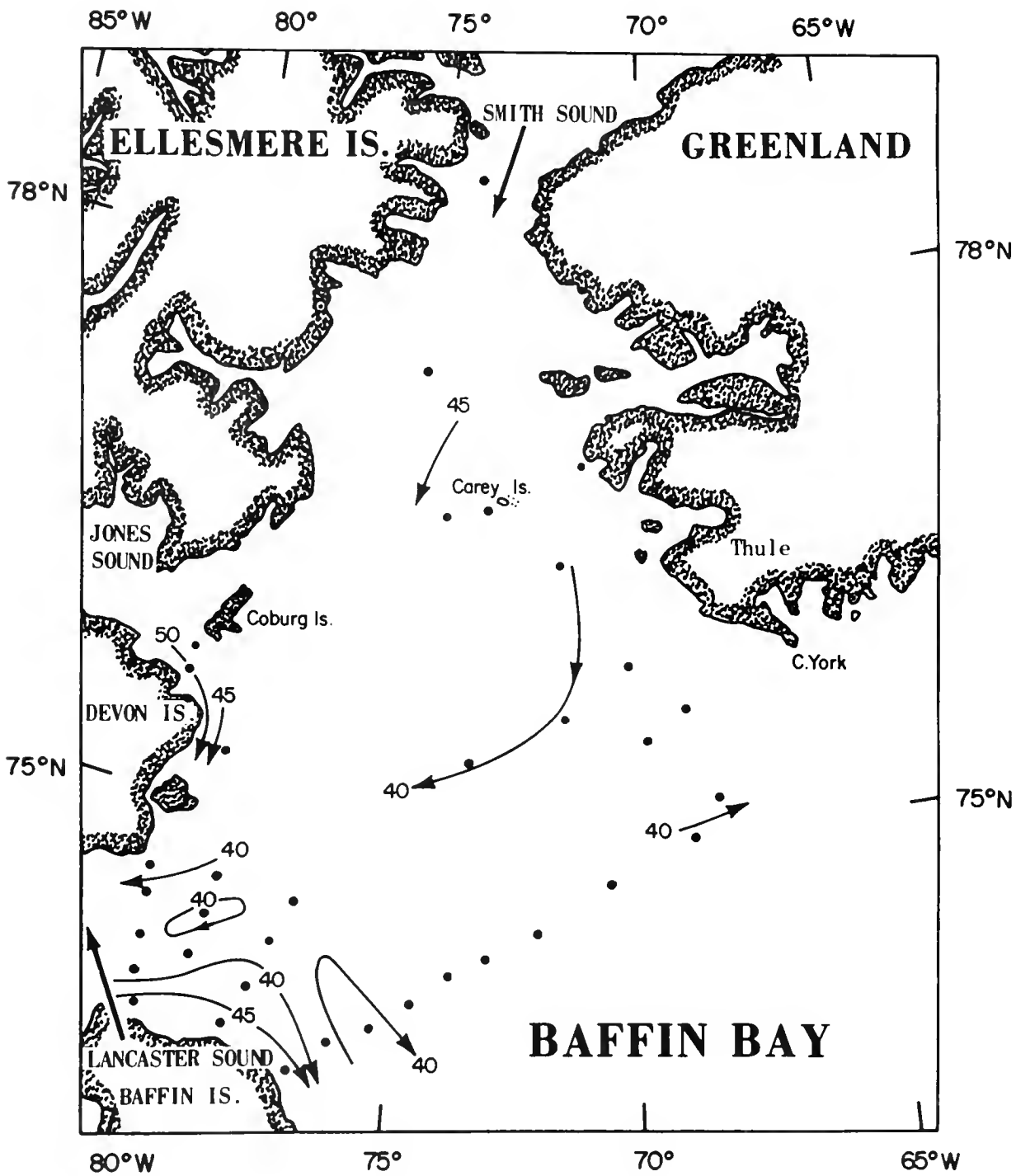


FIGURE 22. Dynamic depth anomaly at the surface relative to 500 db. Contour interval = 5 dyn. cm.

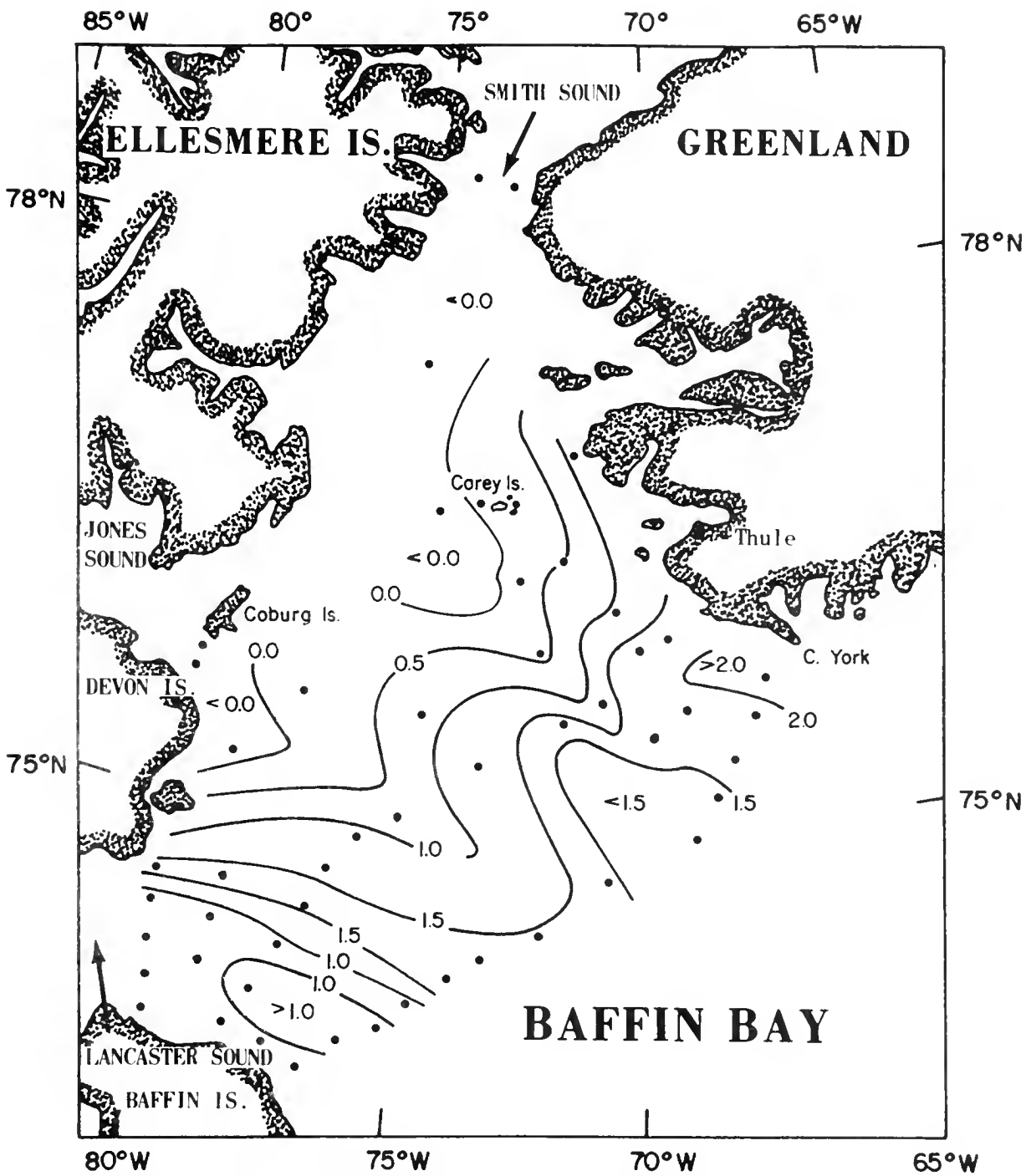


FIGURE 23. Variation of temperature on the 27.5 sigma-t surface. Contour interval = 0.5°C.

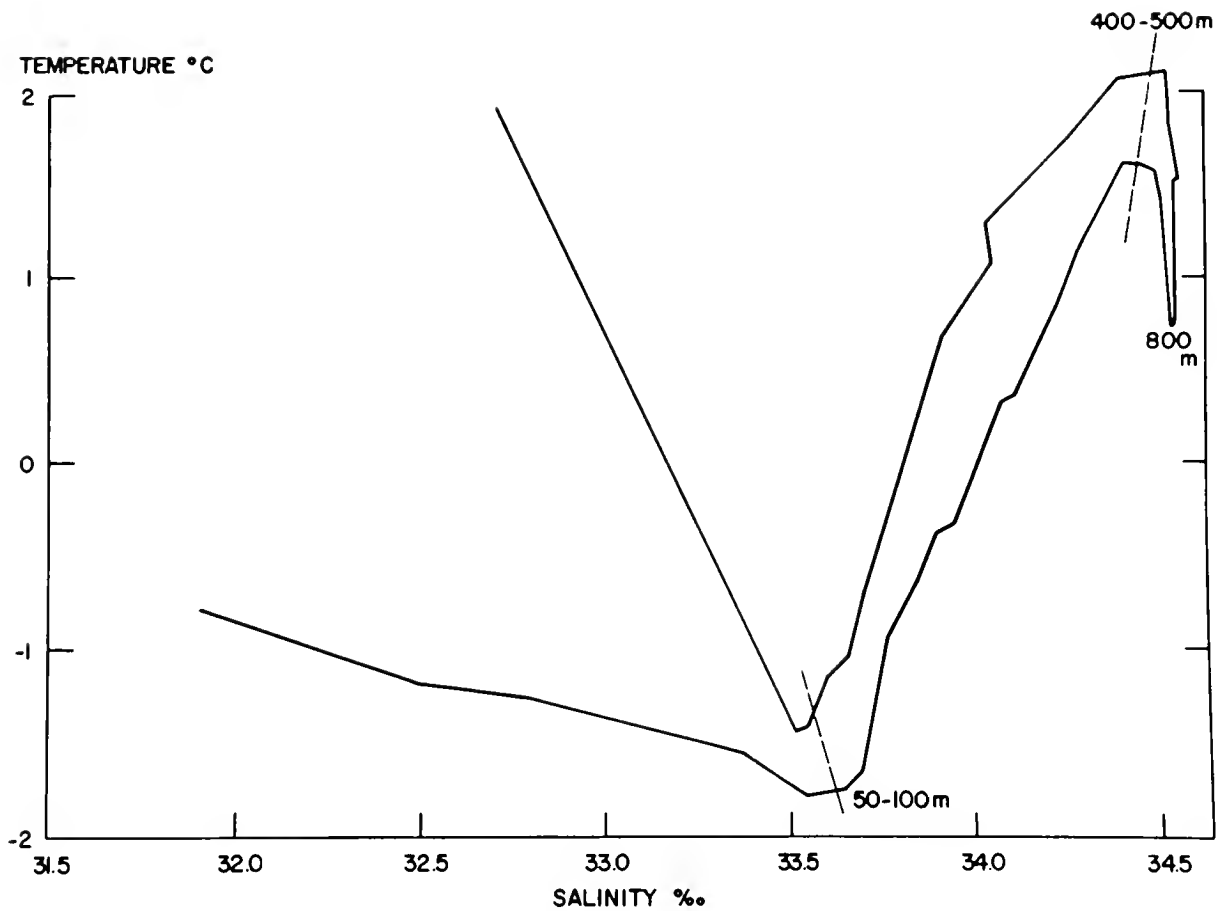


FIGURE 24a. Temperature-Salinity envelope (Stations 16, 17, 19, 20, 22, 23, 25, 28, 29, N15, N19, N24, and N27)

TEMPERATURE °C

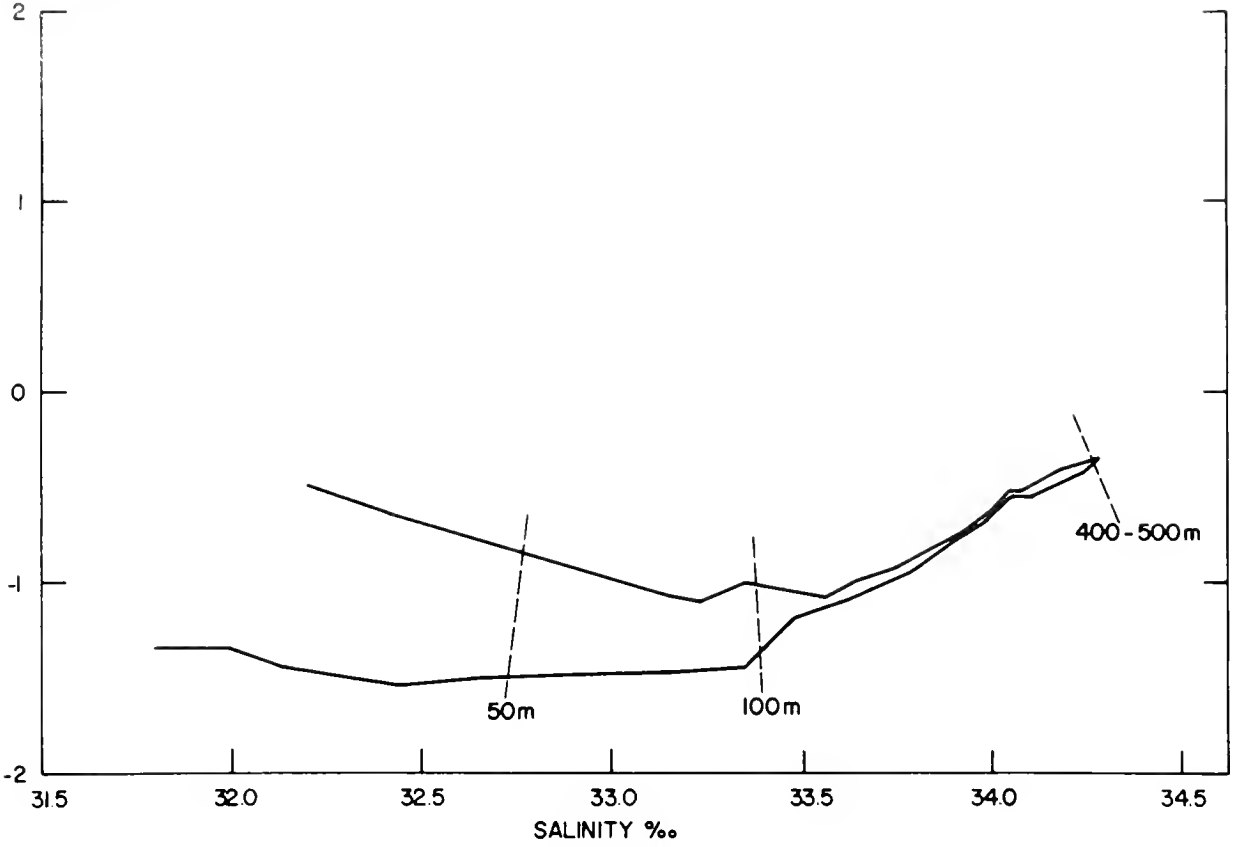


FIGURE 24b. Temperature-Salinity envelope (Stations 31, 32, and N30)

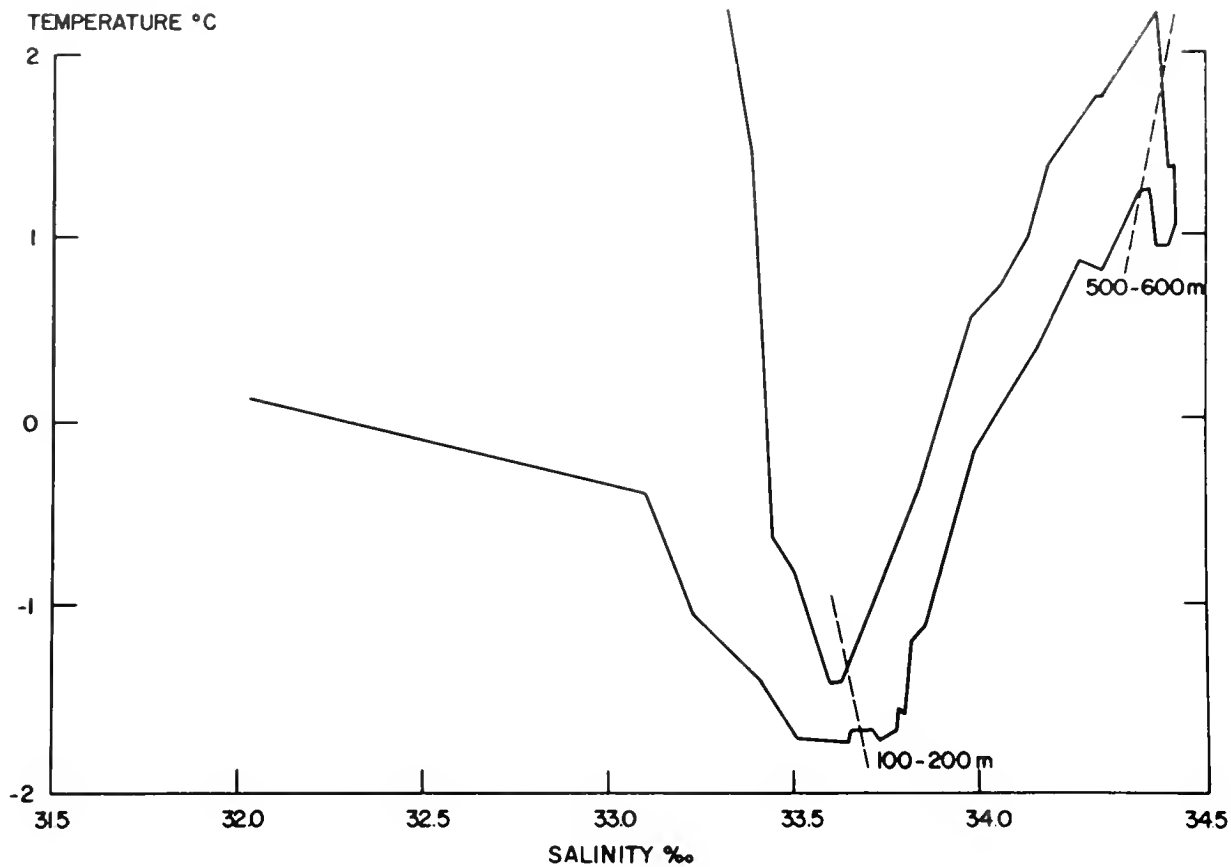


FIGURE 24c. Temperature-Salinity Envelope (Stations 9, 11, 64, 65, 67, 68, 69, N8, and N11)

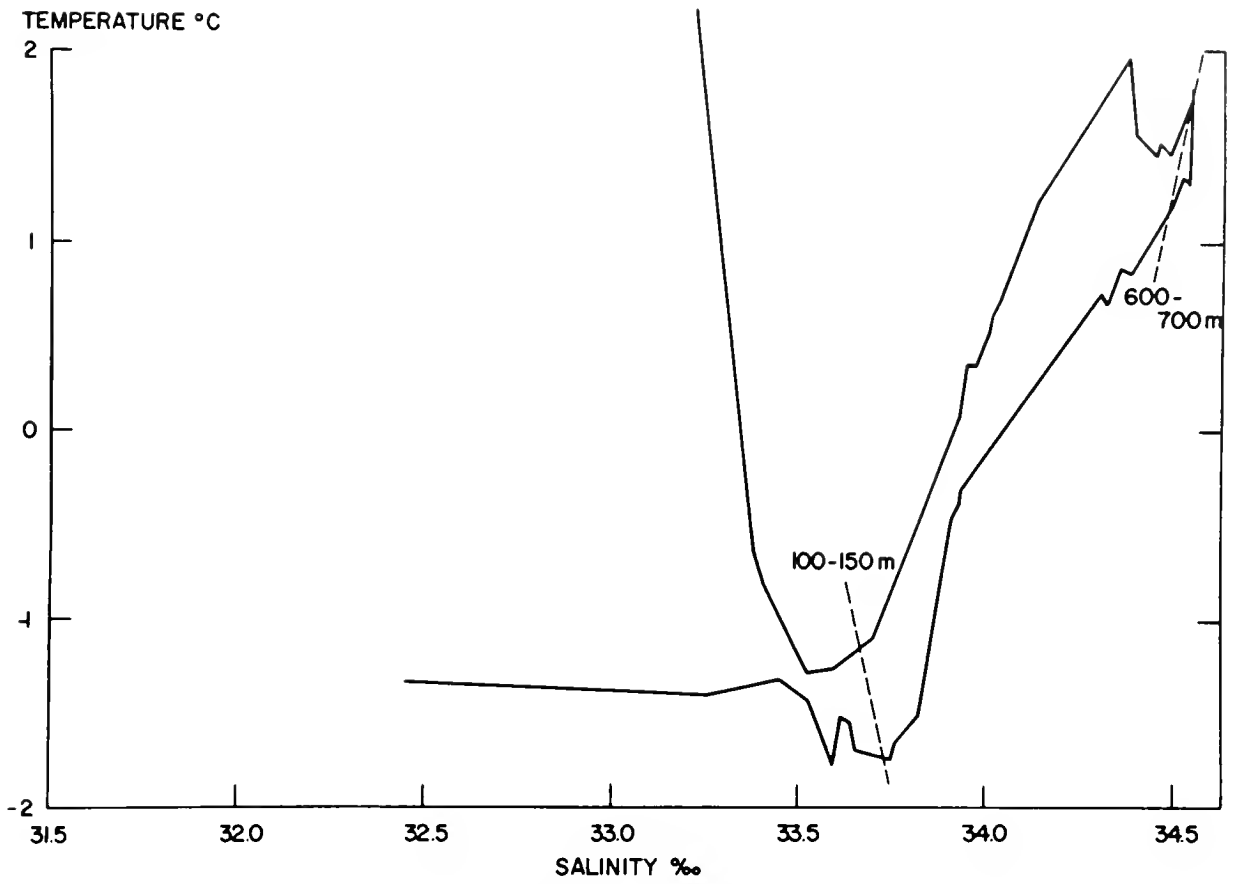


FIGURE 24d. Temperature-Salinity envelope (Stations 2, 4, N1, N3, and N5)

APPENDIX A

OCEANOGRAPHIC DATA

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Table I. CGC WESTWIND, July–August 1970; STD Data -----	34
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Codes Utilized

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. -----	Increments of $\frac{1}{2}$ m. Sum of 5 meters plus increments of $\frac{1}{2}$ m if 50 is added to Direction.
PER. -----	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or 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 eighths. Entry of the numeral 9 indicates cloud amount could not be estimated.
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 tens, units, and tenths of millibars.
Air Temp. °C. -----	Air temperature to tenths of a degree Celsius.
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 messengers 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 therometrically; 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 Celsius.
S ‰	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.
$\Sigma\Delta$ Dyn. M $\times 10^3$	Multiply entry by 10^{-4} to obtain anomaly of dynamic depth 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 $\mu\text{g-at/l.}$	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total-P $\mu\text{g-at/l.}$	Total phosphorous in microgram-atoms per liter entered to hundredths.
NO ₂ -N $\mu\text{g-at/l.}$	Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO ₃ -N $\mu\text{g-at/l.}$	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si $\mu\text{g-at/l.}$	Silicate-silicon in microgram-atoms per liter entered to whole units.
pH	Entered to hundredths.

TABLE I. Observed and interpolated STD oceanographic data from stations taken by USCGC WESTWIND, 24 July-6 August 1970, prepared from NODC Listing No. 31-8180.

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	OBS. #	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CDDT	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	IO. NO.					TO	1	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
313180		WE	74300N	075505W	266	45	07	24	183	1970	WE3	001	0000		00	0	X		02	0	8	0001
WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
UT	SU	C4	SC3	139	022	010	7															
MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	PH	SEC					
		STD	0000	0225	2255	2633	0017052	0000	14570													
183	UBS	0000	0225	2255C	2633				14570													
	STD	0010	0225	2255	2633		0017055	0017	14572													
183	UBS	0010	0225	2255C	2633				14572													
	STD	0020	0225	2256	2634		0016586	0034	14573													
183	UBS	0020	0225	2256C	2634				14573													
	STD	0030	0020	3310	2655		0014592	0049	14481													
183	UBS	0030	0020	3310C	2655				14481													
	STD	0050	-0125	3340	2685		0011720	0076	14421													
183	UBS	0050	-0125	3340C	2685				14421													
	STD	0075	-0170	3357	2704		0010277	0103	14406													
183	UBS	0075	-0170	3357C	2704				14406													
	STL	0100	-0176	3358	2705		0010167	0124	14407													
183	UBS	0100	-0176	3358C	2705				14407													
	STD	0125	-0175	3358	2705		0010150	0154	14412													
183	UBS	0125	-0175	3358C	2705				14412													
	STD	0150	-0124	3367	2710		0009596	0179	14442													
183	UBS	0150	-0124	3367C	2710				14442													
	UBS	0175	-0065	3376C	2716				14465													
	STD	0200	0000	3385	2723		0006442	0224	14511													
183	UBS	0200	0000	3385C	2723				14511													
	UBS	0225	0000	3355C	2728				14543													
	STD	0250	0050	3405	2731		0007757	0264	14562													
183	UBS	0250	0050	3405C	2731				14562													
	STD	0300	0162	3428	2743		0006697	0301	14014													
183	UBS	0300	0162	3428C	2743				14014													
	STD	0400	0158	3443	2754		0005737	0363	14040													
183	UBS	0400	0158	3443C	2754				14040													
	STD	0500	0120	3448	2763		0004848	0416	14627													
183	UBS	0500	0120	3448C	2763				14627													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIR SPEED	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
313100		WT	741>04	000020N		20	40	07	24	202	1	57C	WL 3	002		00	0	0	02	0	0	0002

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
U	50	C4	50	135	022	010	7		

MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\frac{\sigma}{\rho}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -S µg - dl/l	pH	S C
		STC	0000	0200	3234	2500	0021472	0000	14249								
202		UBS	0000	0200	32340	2500			14249								
		STL	0010	0000	3315	2607	0013010	0017	14409								
202		UBS	0010	0000	33150	2607			14409								
		STU	0020	-0134	3353	2659	0010710	0029	14414								
202		UBS	0020	-0134	33530	2659			14414								
		STU	0030	-0145	3350	2704	0010253	0040	14411								
202		UBS	0030	-0145	33500	2704			14411								
		STL	0050	-0150	3300	2712	0004484	0000	14409								
202		UBS	0050	-0150	33000	2712			14409								
		STU	0075	-0145	3374	2717	0009057	0005	14420								
202		UBS	0075	-0145	33740	2717			14420								
		STL	0100	-0100	3370	2715	0000017	0105	14415								
202		UBS	0100	-0100	33700	2715			14415								
		STL	0125	-0150	3303	2724	0000311	0127	14420								
202		UBS	0125	-0150	33030	2724			14420								
		STL	0150	-0032	3352	2727	0000059	0147	14400								
202		UBS	0150	-0032	33520	2727			14400								
		STL	0200	0035	33550	2720			14523								
202		UBS	0200	0035	33550	2720			14523								
		STU	0200	0029	3404	2734	0007459	0100	14520								
202		UBS	0200	0029	34040	2734			14520								
		STU	0225	0040	34050	2737			14530								
202		UBS	0225	0040	34050	2737			14530								
		STU	0250	0041	3415	2742	0000091	0221	14541								
202		UBS	0250	0041	34150	2742			14541								
		STU	0300	0067	3425	2740	0000092	0253	14503								
202		UBS	0300	0067	34250	2740			14503								
		STU	0400	0120	3444	2700	0005044	0309	14000								
202		UBS	0400	0120	34440	2700			14000								
		STL	0500	0100	3453	2704	0004773	0350	14045								
202		UBS	0500	0100	34530	2704			14045								
		STU	0600	0175	3455	2705	0004721	0405	14005								
202		UBS	0600	0175	34550	2705			14005								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIR	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE NO.	IO. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
313100	WE	74078N	080000W	24	14	07	24	220	1970	WE 3	003	0800	00	0	X	02	8	8	0003		

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VEL. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
UT	SD	33	SC3	139	023	011	7		

MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	± Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	Si CC
220	06S	STC	0000	-0010	3256	2617	0018592	0000	14454								
	06S	0000	-0010	32560	2617				14454								
220	06S	STC	0010	0080	3267	2637	0016602	0017	14501								
	06S	0010	0080	32670	2637				14501								
220	06S	STC	0020	0180	3312	2650	0015301	0033	14551								
	06S	0020	0180	33120	2650				14551								
220	06S	STC	0030	0218	3330	2662	0014283	0048	14572								
	06S	0030	0218	33300	2662				14572								
220	06S	STC	0050	-0134	3346	2694	0011239	0074	14418								
	06S	0050	-0134	33460	2694				14418								
220	06S	STC	0075	-0148	3356	2702	0010417	0101	14416								
	06S	0075	-0148	33560	2702				14416								
220	06S	STC	0100	-0150	3367	2711	0009543	0126	14421								
	06S	0100	-0150	33670	2711				14421								
220	06S	STC	0125	-0154	3375	2718	0008904	0149	14425								
	06S	0125	-0154	33750	2718				14425								
220	06S	STC	0150	-0125	3378	2720	0008720	0171	14438								
	06S	0150	-0125	33780	2720				14438								
220	06S	STC	0175	-0104	3388	2727			14509								
	06S	0175	-0104	33880	2727				14509								
220	06S	STC	0200	-0005	3397	2730	0007809	0212	14509								
	06S	0200	-0005	33970	2730				14509								
220	06S	STC	0225	0044	3404	2733			14559								
	06S	0225	0044	34040	2733				14559								
220	06S	STC	0250	0083	3410	2735	0007332	0250	14559								
	06S	0250	0083	34100	2735				14559								
220	06S	STC	0300	0075	3422	2746	0006377	0284	14506								
	06S	0300	0075	34220	2746				14506								
220	06S	STC	0400	0077	3438	2758	0005186	0342	14580								
	06S	0400	0077	34380	2758				14580								
220	06S	STC	0500	0115	3450	2766	0004577	0391	14621								
	06S	0500	0115	34500	2766				14621								
220	06S	STC	0600	0122	3452	2766	0004581	0437	14645								
	06S	0600	0122	34520	2766				14645								
220	06S	STC	0700	0124	3454	2768	0004397	0481	14659								
	06S	0700	0124	34540	2768				14659								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME GMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE		AMT
513180		NE	73555N	179556W	1200	25	07	29	017	1970	NE 3	009	0613		00	0	A		43	D	B	0004

WATER		WIND		BARO-METER (mbx)	AIR TEMP. °C			SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB	VIS. CODE	
01	33	SE	3	134	023	011	7	

MESSENGER TIME HR. 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	1 C C
		STL	0000	0125	3230	2588	0021255	0000	14512								
017		UBS	0000	0125	3230	2588			14512								
		STD	0010	0120	3227	2620	0018030	0019	14533								
017		UBS	0010	0120	3227	2618			14533								
		STD	0020	0147	3300	2643	0015007	0037	14535								
017		UBS	0020	0147	3300	2643			14535								
		STD	0030	-0100	3344	2691	0011508	0051	14430								
017		UBS	0030	-0100	3344	2691			14430								
		STD	0050	-0140	3354	2700	0010000	0073	14416								
017		UBS	0050	-0140	3354	2700			14416								
		STD	0075	-0127	3363	2708	0009905	0098	14423								
017		UBS	0075	-0127	3363	2708			14423								
		STD	0100	-0165	3366	2711	0005574	0123	14412								
017		UBS	0100	-0165	3366	2711			14412								
		STD	0125	-0175	3375	2718	0003051	0146	14415								
017		UBS	0125	-0175	3375	2718			14415								
		STD	0150	-0118	3381	2722	0006553	0108	14447								
017		UBS	0150	-0118	3381	2722			14447								
		STD	0175	-0082	3386	2725			14478								
017		UBS	0175	-0082	3386	2725			14478								
		STD	0200	0001	3402	2731	0007601	0208	14540								
017		UBS	0200	0001	3402	2730			14540								
		STD	0225	0070	3406	2733			14543								
017		UBS	0225	0069	3410	2735	0006937	0245	14535								
		STD	0250	0027	3410	2735			14535								
017		UBS	0250	0022	3428	2750	0005970	0276	14570								
		STD	0300	0002	3428	2750			14570								
017		UBS	0300	0002	3428	2750			14570								
		STD	0400	0000	3434	2756	0005410	0335	14580								
017		UBS	0400	0000	3434	2750			14580								
		STD	0500	0152	3447	2761	0005092	0387	14637								
017		UBS	0500	0152	3447	2761			14637								
		STD	0600	0136	3451	2765	0004095	0436	14647								
017		UBS	0600	0136	3451	2765			14647								
		STD	0700	0141	3455	2768	0004404	0482	14666								
017		UBS	0700	0141	3455	2768			14666								

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
						0'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
310180		WT	75450N	08000W		201	29	07	25	033	1970	11	3	005								0005

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
UT	SD	26	502	129	017	000			

MESSAGE TIME HR. / 10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	± Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -S µg - ml/l	PH	S C C
		STL	0000	-0114	3235	2007	0019534	0000	14404								
J25		UBS	0000	-0114	3235	2007			14404								
		STL	0010	-0115	3248	2014	0010703	0019	14390								
035		UBS	0010	-0115	3248	2014			14390								
		STL	0020	-0111	3253	2010	0018404	0037	14401								
J25		UBS	0020	-0111	3253	2010			14401								
		STD	0030	-0117	3273	2035	0010840	0055	14403								
035		UBS	0030	-0117	3273	2035			14403								
		STL	0050	-0115	3254	2052	0015225	0067	14410								
J25		UBS	0050	-0115	3254	2052			14410								
		STL	0075	-0140	3303	2055	0014501	0124	14413								
035		UBS	0075	-0140	3303	2055			14413								
		STL	0100	-0143	3324	2070	0012807	0130	14418								
J25		UBS	0100	-0143	3324	2070			14418								
		STL	0125	-0128	3335	2080	0011715	0109	14427								
035		UBS	0125	-0128	3335	2080			14427								
		STL	0150	-0120	3301	2705	0010075	0210	14443								
J25		UBS	0150	-0120	3301	2705			14443								
		UBS	0175	-0121	3308	2711			14447								
		STL	0200	-0107	3372	2714	0004214	0205	14455								
J25		UBS	0200	-0107	3372	2714			14455								
035		UBS	0225	-0050	3377	2717			14471								
		STL	0250	-0082	3384	2723	0006411	0309	14480								
J25		UBS	0250	-0082	3384	2723			14480								
		STL	0300	-0018	3357	2731	0007710	0349	14520								
035		UBS	0300	-0018	3357	2731			14520								
		STL	0400	0035	3415	2742	0006070	0421	14505								
J25		UBS	0400	0035	3415	2742			14505								
		STL	0500	0054	3435	2758	0005240	0481	14610								
035		UBS	0500	0054	3435	2758			14610								
		STL	0600	0110	3445	2762	0004939	0532	14635								
J25		UBS	0600	0110	3445	2762			14635								
		STL	0700	0166	3452	2764	0004902	0581	14677								
035		UBS	0700	0166	3452	2764			14677								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MO	DAY	HR	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.								CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
	310180	WE	73435N	078146W	20	07	25	078	1576	WE3	006	1000		00	0	X		28	X	9	0000

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	01	01	01	1000	006	006	0		

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY-307	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	S	C
		STC	0000	-0094	3190	2586	0023558	0000	14400									
078		UBS	0000	-0094	31900	2586			14400									
		STL	0010	-0130	3218	2590	0021102	0022	14395									
078		UBS	0010	-0130	32180	2590			14395									
		STC	0020	-0020	3240	2604	0019769	0042	14451									
078		UBS	0020	-0020	32400	2604			14451									
		STL	0030	-0185	3263	2611	0019157	0062	14550									
078		UBS	0030	-0185	32630	2611			14550									
		STC	0050	-0065	3296	2645	0015044	0097	14512									
078		UBS	0050	-0065	32960	2645			14512									
		STL	0075	-0070	3335	2663	0012277	0132	14450									
078		UBS	0075	-0070	33350	2663			14450									
		STC	0100	-0124	3351	2697	0010850	0101	14431									
078		UBS	0100	-0124	33510	2697			14431									
		STC	0125	-0140	3362	2707	0009925	0187	14426									
078		UBS	0125	-0140	33620	2707			14426									
		STC	0150	-0150	3365	2710	0009605	0211	14429									
078		UBS	0150	-0150	33650	2710			14429									
		STC	0175	-0164	33670	2712			14420									
078		UBS	0175	-0164	33670	2712			14420									
		STC	0200	-0158	3372	2715	0009080	0258	14435									
078		UBS	0200	-0158	33720	2715			14435									
		STC	0225	-0145	33750	2718			14444									
078		UBS	0225	-0145	33750	2718			14444									
		STC	0250	-0128	3380	2721	0008539	0302	14450									
078		UBS	0250	-0128	33800	2721			14450									
		STC	0300	-0008	3398	2731	0007700	0343	14525									
078		UBS	0300	-0008	33980	2731			14525									
		STC	0400	0070	3422	2740	0006352	0413	14580									
078		UBS	0400	0070	34220	2740			14580									
		STL	0500	0080	3433	2754	0005594	0473	14603									
078		UBS	0500	0080	34330	2754			14603									
		STC	0600	0092	3444	2762	0004875	0525	14627									
078		UBS	0600	0092	34440	2762			14627									
		STC	0700	0131	3454	2768	0004454	0572	14662									
078		UBS	0700	0131	34540	2768			14662									
		STL	0800	0136	3457	2770	0004235	0615	14681									
078		UBS	0800	0136	34570	2770			14681									
		STC	0900	0130	3455	2772	0004122	0658	14696									
078		UBS	0900	0130	34550	2772			14696									

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
51018U	nc		73305N	077250W	200	27	C7	25	110	1970	WES	007		1079		UU	U	X		03	7	8	0007
WATER		WIND		BARO-METER		AIR TEMP. °C		SPECIAL OBSERVATIONS															
COLOR CODE	TRANS. (M)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS															
LT	SD	34	SC4	122	002	000	6																

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₂ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NO.
		STC	0000	0020	3165	2542	0025729	0000	14460								
110		UBS	0000	0020	31650	2542			14460								
		STC	0010	0000	2230	2595	0020017	0023	14457								
110		UBS	0010	0000	22300	2595			14457								
		STC	0020	-0045	3309	2601	0014373	0040	14447								
110		UBS	0020	-0045	33090	2601			14447								
		STC	0030	-0027	3320	2677	0012806	0059	14457								
110		UBS	0030	-0027	33200	2677			14457								
		STC	0050	0150	3328	2673	0013260	0080	14550								
110		UBS	0050	0150	33280	2673			14550								
		STC	0075	-0051	3343	2690	0011500	0111	14441								
110		UBS	0075	-0051	33430	2690			14441								
		STC	0100	-0110	3350	2697	0010952	0159	14434								
110		UBS	0100	-0110	33500	2697			14434								
		STC	0125	-0140	3354	2700	0010559	0100	14428								
110		UBS	0125	-0140	33540	2700			14428								
		STC	0150	-0149	3358	2704	0010200	0192	14429								
110		UBS	0150	-0149	33580	2704			14429								
		STC	0200	-0100	3360	2712	0009570	0241	14433								
110		UBS	0200	-0100	33600	2712			14433								
		STC	0225	-0159	33740	2717			14439								
110		UBS	0225	-0159	33740	2717			14439								
		STC	0250	-0134	3382	2723	0008364	0285	14450								
110		UBS	0250	-0134	33820	2723			14450								
		STC	0300	-0042	3350	2726	0008127	0320	14508								
110		UBS	0300	-0042	33500	2726			14508								
		STC	0400	0029	3413	2741	0006704	0401	14500								
110		UBS	0400	0029	34130	2741			14500								
		STC	0500	0120	3430	2754	0005660	0463	14521								
110		UBS	0500	0120	34300	2754			14521								
		STC	0600	0113	3443	2760	0005113	0517	14630								
110		UBS	0600	0113	34430	2760			14630								
		STC	0700	0131	3455	2768	0004374	0564	14602								
110		UBS	0700	0131	34550	2768			14602								
		STC	0800	0136	3457	2770	0004295	0608	14681								
110		UBS	0800	0136	34570	2770			14681								
		STC	0900	0129	3455	2772	0004074	0650	14693								
110		UBS	0900	0129	34550	2772			14693								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
318180	WE	73300N	07700W	260	27	07	25	135	1570	KE3	008	1024		00	0	X		03	7	8	0008

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	34	S04	122	002	000	0		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND (1-310) ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -S µg - dl/l	pH	S CC
		STD	0000	-0048	3267	2575	0022197	0000	14430								
135		OBS	0000	-0048	32670	2575			14430								
		STL	0010	-0065	3205	2562	0021900	0022	14413								
135		OBS	0010	-0065	32050	2562			14413								
		STD	0020	-0153	3225	2608	0019426	0042	14389								
135		OBS	0020	-0153	32250	2608			14389								
		STD	0030	-0155	3250	2621	0018105	0061	14392								
135		OBS	0030	-0155	32500	2621			14392								
		STD	0050	0020	3255	2647	0015736	0095	14402								
135		OBS	0050	0020	32550	2647			14402								
		STL	0075	-0114	3343	2691	0011508	0129	14431								
135		OBS	0075	-0114	33430	2691			14431								
		STD	0100	-0139	3354	2700	0010575	0157	14425								
135		OBS	0100	-0139	33540	2700			14425								
		STD	0125	-0148	3359	2705	0010151	0182	14425								
135		OBS	0125	-0148	33590	2705			14425								
		STD	0150	-0148	3364	2705	0009750	0207	14430								
135		OBS	0150	-0148	33640	2705			14430								
135		OBS	0175	-0145	33680	2712			14436								
		STD	0200	-0147	3372	2715	0009113	0254	14440								
135		OBS	0200	-0147	33720	2715			14440								
135		OBS	0225	-0170	33760	2719			14434								
		STD	0250	-0112	3386	2725	0008137	0298	14467								
135		OBS	0250	-0112	33860	2725			14467								
		STD	0300	0026	3405	2735	0007360	0336	14541								
135		OBS	0300	0026	34050	2735			14541								
		STL	0400	0049	3423	2748	0006132	0404	14571								
135		OBS	0400	0049	34230	2748			14571								
		STD	0500	0057	3435	2758	0005268	0461	14611								
135		OBS	0500	0057	34350	2758			14611								
		STD	0600	0121	3450	2765	0004644	0510	14640								
135		OBS	0600	0121	34500	2765			14640								
		STD	0700	0143	3457	2765	0004325	0555	14668								
135		OBS	0700	0143	34570	2765			14668								
		STL	0800	0150	3460	2771	0004200	0598	14688								
135		OBS	0800	0150	34600	2771			14688								
		STD	0900	0114	3461	2774	0003335	0638	14689								
135		OBS	0900	0114	34610	2774			14689								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH IN FEET	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	HODC STATION NUMBER			
CRUISE CODE	IO. NO.					T0	T1	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA	TYPE	AMT
313180		WE	73410N	076120W	200	30	07	25	150	1970	NE5	009	0214		00	0	X		03	8	0	0009		
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB														
LT		SD		3c		ScE		122		031		022		7										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-20°	Σ Δ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C C
		STL	0000	-00.2	3326	2673	0013233	0000	14463								
150		UBS	0000	-0012	33260	2673			14463								
		STL	0010	-0040	3335	2685	0012080	0012	14450								
150		UBS	0010	-0040	3335	2685			14450								
		STL	0020	-0060	3350	2695	0011110	0024	14438								
150		UBS	0020	-0060	3350	2695			14438								
		STD	0030	-0144	3360	2705	0010148	0034	14411								
150		UBS	0030	-0144	3360	2705			14411								
		STU	0050	-0147	3372	2715	0009205	0054	14415								
150		UBS	0050	-0147	33720	2715			14415								
		STC	0075	-0093	3374	2715	0009211	0077	14445								
150		UBS	0075	-0093	33740	2715			14445								
		STC	0100	-0143	3376	2718	0008878	0099	14428								
150		UBS	0100	-0143	33760	2718			14428								
		STU	0125	-0153	3378	2720	0006679	0121	14420								
150		UBS	0125	-0153	33780	2720			14420								
		STC	0150	-0150	3379	2721	0003581	0143	14420								
150		UBS	0150	-0150	33790	2721			14420								
		STU	0200	-0160	33800	2722			14431								
150		UBS	0200	-0160	33800	2722			14431								
		STU	0200	-0112	3382	2722	0008408	0168	14458								
150		UBS	0200	-0112	33820	2722			14458								
		STC	0225	-0070	3370	2725			14479								
150		UBS	0225	-0070	33700	2725			14479								
		STC	0250	-0030	3390	2730	0007747	0220	14500								
150		UBS	0250	-0030	33900	2730			14500								
		STL	0300	0027	3414	2742	0000670	0262	14543								
150		UBS	0300	0027	34140	2742			14543								
		STU	0400	0145	3435	2755	0005609	0324	14816								
150		UBS	0400	0145	34350	2755			14816								
		STL	0500	0133	3444	2759	0005105	0377	14628								
150		UBS	0500	0133	34440	2759			14628								
		STU	0600	0134	3445	2763	0004820	0427	14646								
150		UBS	0600	0134	34450	2763			14646								
		STC	0700	0134	3448	2763	0004932	0470	14662								
150		UBS	0700	0134	34480	2763			14662								
		STU	0800	0093	3445	2766	0004532	0524	14661								
150		UBS	0800	0093	34490	2766			14661								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DEPTH INDEX	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODE	NODC STATION NUMBER		
						CRUISE NO.	STATION NUMBER	10"		1'	MO			DAY	HR./10	WLS				U.S.	DIR
313180	WE	73460N	075310W		20033	07	25	186	1970	WLS	U.S.	0944		UU	0	X		03	8	8	0010
					WATER		WIND		BAROMETER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
					COLOR	TRANSP.	DIR.	SPEED	ORIG.	FORCE	IMB	DRY BULB	WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
					UT	SO	36	SC	122	031	022	7									

MESSAGE TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -S μg - dl/l	pH	S	CTD
		STL	0000	0240	3245	2552	0020863	0000	14505									
180		UBS	0000	0240	32450	2552			14505									
		STL	0010	0212	3265	2611	0019104	0020	14557									
180		UBS	0010	0212	32650	2611			14557									
		STL	0020	0130	3300	2644	0015950	0037	14527									
180		UBS	0020	0130	33000	2644			14527									
		STD	0030	-0113	3327	2678	0012763	0051	14421									
180		UBS	0030	-0113	33270	2678			14421									
		STL	0050	-0145	3344	2692	0011355	0076	14412									
180		UBS	0050	-0145	33440	2692			14412									
		STD	0075	-0153	3357	2703	0010526	0103	14414									
180		UBS	0075	-0153	33570	2703			14414									
		STL	0100	-0168	3364	2705	0009720	0128	14412									
180		UBS	0100	-0168	33640	2705			14412									
		STL	0125	-0170	3365	2713	0005522	0152	14410									
180		UBS	0125	-0170	33650	2713			14410									
		STL	0150	-0170	3372	2716	0009079	0175	14421									
180		UBS	0150	-0170	33720	2716			14421									
180		UBS	0175	-0167	33740	2717			14427									
		STL	0200	-0076	3380	2715	0008766	0219	14474									
180		UBS	0200	-0076	33800	2715			14474									
180		UBS	0225	-0042	33930	2728			14436									
		STD	0250	0033	3405	2734	0007405	0260	14536									
180		UBS	0250	0033	34050	2734			14536									
		STL	0300	0007	3415	2742	0006683	0295	14571									
180		UBS	0300	0007	34150	2742			14571									
		STD	0400	0128	3438	2755	0005555	0356	14608									
180		UBS	0400	0128	34380	2755			14608									
		STL	0500	0100	3446	2761	0004991	0409	14627									
180		UBS	0500	0100	34460	2761			14627									
		STL	0600	0131	3450	2764	0004723	0457	14645									
180		UBS	0600	0131	34500	2764			14645									
		STD	0700	0129	3452	2766	0004584	0504	14661									
180		UBS	0700	0129	34520	2766			14661									
		STD	0800	0092	3453	2765	0004228	0548	14661									
180		UBS	0800	0092	34530	2765			14661									

REFERENCE CITY CODE	SHIP ID. NO. CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN INDIC SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
					MO	DAY		HR. /10	CRUISE NO.			STATION NUMBER	DIR	HGT PER		SEA	TYPE		AMT			
31310	MC	13550N	074500W	200	07	25	206	1570	MC 3	114	3070	00	0	X	03	7	8	0011				
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR		TRANS. (m)		SPEED OR FORCE		DRY BULB		WET BULB		VIS CODE										
		LT		SU		20		502		121		037		024		2						

MESSAGE TIME HR /10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	PH	S C C
208		STD	0000	0240	3250	2596	0000003	0000	14500								
		UBS	0000	0240	32500	2590											
		STD	0010	0240	3230	2600	0014504	0017	14502								
208		UBS	0010	0240	32300	2600											
		STD	0020	-0100	3238	2600	0011905	0030	14506								
208		UBS	0020	-0100	32380	2600											
		STD	0030	-0100	3340	2654	0011202	0042	14420								
208		UBS	0030	-0100	33400	2654											
		STD	0050	-0101	3354	2701	0010549	0004	14415								
208		UBS	0050	-0101	33540	2701											
		STD	0075	-0175	3300	2706	0020042	0037	14406								
208		UBS	0075	-0175	33000	2706											
		STD	0100	-0108	3300	2711	0007074	0114	14405								
208		UBS	0100	-0100	33000	2711											
		STD	0125	-0100	3372	2710	0009107	0137	14413								
208		UBS	0125	-0100	33720	2710											
		STD	0150	-0174	3373	2717	0008555	0100	14419								
208		UBS	0150	-0174	33730	2717											
		STD	0200	-0100	3370	2721	0008412	0203	14419								
208		UBS	0200	-0053	3300	2723											
		STD	0250	0015	33570	2725	0007509	0243	14480								
208		UBS	0250	0049	3404	2733											
		STD	0300	0049	34040	2733	0006507	0279	14486								
208		UBS	0300	0033	3410	2743											
		STD	0400	0113	3437	2755	0005521	0339	14523								
208		UBS	0400	0113	34370	2755											
		STD	0500	0123	3447	2763	0004805	0391	14543								
208		UBS	0500	0123	34470	2763											
		STD	0600	0128	3447	2762	0004932	0440	14546								
208		UBS	0600	0120	34470	2762											
		STD	0700	0125	3445	2764	0004782	0489	14602								
208		UBS	0700	0125	34450	2764											
		STD	0800	0091	3450	2767	0004448	0535	14602								
208		UBS	0800	0091	34500	2767											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			D.R.	HGT PER	SEA				
313100	WE	74040N	074050W	200	44	07	25	226	1970	WE3	012	0766	00	0	X	01	7	8	0012		
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		TRANS. (M)		DIR.		SPEED OR FORCE		DRY RUL		WET RUL									
		07		50		27		502		115		033		002		7					

MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C
		STC	0000	0230	3319	2652	0015157	0000	14571								
226		UBS	0000	0230	33190	2652			14571								
		STL	0010	0270	3330	2658	0014005	0014	14592								
226		UBS	0010	0270	33300	2658			14592								
		STC	0020	-0020	3350	2653	0011355	0028	14466								
226		UBS	0020	-0020	33500	2653			14466								
		STL	0030	-0115	3358	2703	0010386	0038	14425								
226		UBS	0030	-0115	33580	2703			14425								
		STC	0050	-0140	3364	2709	0009819	0059	14413								
226		UBS	0050	-0140	33640	2709			14413								
		STO	0075	-0152	3366	2710	0009651	0063	14416								
226		UBS	0075	-0152	33660	2710			14416								
		STO	0100	-0165	3368	2712	0009431	0107	14414								
226		UBS	0100	-0165	33680	2712			14414								
		STC	0125	-0164	3371	2715	0009109	0130	14419								
226		UBS	0125	-0164	33710	2715			14419								
		STO	0150	-0128	3378	2719	0008747	0152	14441								
226		UBS	0150	-0128	33780	2719			14441								
226		UBS	0175	-0030	33870	2723			14442								
		STO	0200	0020	3395	2730	0007787	0194	14521								
226		UBS	0200	0020	33950	2730			14521								
226		UBS	0225	0050	34170	2740			14503								
		STC	0250	0152	3422	2740	0006902	0230	14592								
226		UBS	0250	0152	34220	2740			14592								
		STC	0300	0184	3437	2750	0006034	0203	14617								
226		UBS	0300	0184	34370	2750			14617								
		STC	0400	0192	3448	2758	0005309	0320	14638								
226		UBS	0400	0192	34480	2758			14638								
		STC	0500	0169	3453	2764	0004703	0370	14645								
226		UBS	0500	0169	34530	2764			14645								
		STO	0600	0179	3455	2765	0004754	0418	14607								
226		UBS	0600	0179	34550	2765			14607								
		STO	0700	0100	3454	2770	0004200	0462	14648								
226		UBS	0700	0100	34540	2770			14648								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INSTR.	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER			
						10'	1'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
313100	NE		74110N	073170W		26	43	07	26	000	1970	NE 3	013		0700		00	0	X		01	7	7	0013

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
UT	50	06	50	065	039	026	7		

MESSENGER TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		0BS	0000	0370	33170	2638			14631								
		STC	0010	0354	3337	2650	0014868	0015	14629								
		0BS	0010	0354	33370	2650			14629								
		STC	0020	-0112	3352	2698	0010802	0026	14424								
		0BS	0020	-0112	33520	2698			14424								
		STC	0030	-0147	3356	2702	0010440	0039	14410								
		0BS	0030	-0147	33560	2702			14410								
		STC	0050	-0168	3361	2707	0009997	0059	14404								
		0BS	0050	-0168	33610	2707			14404								
		STC	0075	-0160	3365	2710	0009075	0084	14409								
		0BS	0075	-0160	33650	2710			14409								
		STC	0100	-0160	3367	2711	0009522	0108	14417								
		0BS	0100	-0160	33670	2711			14417								
		STC	0125	-0152	3371	2714	0009220	0131	14425								
		0BS	0125	-0152	33710	2714			14425								
		STC	0150	0010	3390	2724	0008419	0153	14507								
		0BS	0150	0010	33900	2724			14507								
		STC	0200	0062	34000	2729			14530								
		0BS	0200	0062	34000	2729	0007011	0193	14555								
		STC	0225	0092	3407	2732			14555								
		0BS	0225	0092	34070	2732			14555								
		STC	0250	0113	34180	2740			14570								
		0BS	0250	0113	34180	2740	0008242	0228	14585								
		STC	0300	0134	34250	2747			14585								
		0BS	0300	0134	34250	2747	0005778	0258	14619								
		STC	0300	0169	3441	2753			14619								
		0BS	0300	0169	34410	2753			14619								
		STC	0400	0209	3452	2760	0005157	0313	14646								
		0BS	0400	0209	34520	2760			14646								
		STC	0500	0190	3456	2765	0004739	0362	14655								
		0BS	0500	0190	34560	2765			14655								
		STC	0600	0142	3457	2769	0004295	0407	14651								
		0BS	0600	0142	34570	2769			14651								
		STC	0700	0095	3450	2772	0004013	0449	14640								
		0BS	0700	0095	34500	2772			14640								

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.				HGT
316180	WE	74200N	072160W	260	42	07	26	027	1970	WES	014	0708		03	01		00	16	0014

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
UT	SD	27	SIC	054	042	022	7		

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		STC	0000	0353	3240	2575	0022170	0000	14614								
027		OBS	0000	0353	32400	2575			14614								
		STC	0010	0250	3285	2624	0017934	0020	14577								
027		OBS	0010	0250	32850	2624			14577								
		STD	0020	-0144	3343	2692	0011450	0034	14407								
027		OBS	0020	-0144	33430	2692			14407								
		STD	0030	-0160	3356	2703	0010409	0045	14403								
027		OBS	0030	-0160	33560	2703			14403								
		STD	0050	-0172	3358	2704	0010213	0060	14401								
027		OBS	0050	-0172	33580	2704			14401								
		STC	0075	-0174	3366	2711	0009581	0091	14400								
027		OBS	0075	-0174	33660	2711			14400								
		STC	0100	-0161	3370	2714	0009288	0114	14416								
027		OBS	0100	-0161	33700	2714			14416								
		STC	0125	-0139	3376	2718	0008874	0137	14432								
027		OBS	0125	-0139	33760	2718			14432								
		STC	0150	-0015	3387	2722	0008526	0159	14495								
027		OBS	0150	-0015	33870	2722			14495								
027		OBS	0175	0040	33900	2728			14520								
		STC	0200	0058	3407	2735	0007404	0198	14540								
027		OBS	0200	0058	34070	2735			14540								
027		OBS	0225	0056	34160	2739			14562								
		STC	0250	0120	3424	2744	0006521	0233	14578								
027		OBS	0250	0120	34240	2744			14578								
		STD	0300	0156	3435	2751	0005967	0264	14604								
027		OBS	0300	0156	34350	2751			14604								
		STC	0400	0167	3447	2758	0005347	0321	14636								
027		OBS	0400	0167	34470	2758			14636								
		STL	0500	0151	3448	2758	0005340	0375	14654								
027		OBS	0500	0151	34480	2758			14654								
		STD	0600	0140	3453	2766	0004576	0424	14649								
027		OBS	0600	0140	34530	2766			14649								
		STC	0700	0101	3455	2770	0004131	0468	14649								
027		OBS	0700	0101	34550	2770			14649								
		STD	0800	0068	3455	2773	0003883	0508	14651								
027		OBS	0800	0068	34550	2773			14651								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	10"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
51	180	WC	74360N	070500W	260	40	07	26	058	1970	WE3	015	1372		00	0	X		00	76		0015

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	50	CC	SCC	C52	C11	000	4		

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	Σ Δ D DYN. M. x 10 ³	SDUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	Si CC
		STD	0000	-0030	3150	2532	0026031	0000	14430								
058		UBS	0000	-0030	31500	2532			14430								
		STD	0010	-0072	3300	2655	0014983	0020	14433								
058		UBS	0010	-0072	33000	2655			14433								
		STD	0020	-0120	3335	2680	0011028	0034	14410								
058		UBS	0020	-0120	33350	2680			14410								
		STD	0030	-0151	3350	2697	0010890	0045	14407								
058		UBS	0030	-0151	33500	2697			14407								
		STD	0050	-0171	3360	2706	0010060	0066	14402								
058		UBS	0050	-0171	33600	2706			14402								
		STD	0075	-0157	3364	2709	0009774	0091	14413								
058		UBS	0075	-0157	33640	2709			14413								
		STD	0100	-0176	3367	2712	0009482	0115	14409								
058		UBS	0100	-0176	33670	2712			14409								
		STD	0125	-0144	3374	2717	0009010	0138	14429								
058		UBS	0125	-0144	33740	2717			14429								
		STD	0150	-0065	3383	2721	0008003	0160	14472								
058		UBS	0150	-0065	33830	2721			14472								
058		UBS	0175	0004	33950	2728			14509								
		STD	0200	0060	3405	2733	0007557	0201	14540								
058		UBS	0200	0060	34050	2733			14540								
058		UBS	0225	0103	34150	2738			14565								
		STD	0250	0130	3422	2742	0006743	0236	14582								
058		UBS	0250	0130	34220	2742			14582								
		STD	0300	0160	3438	2752	0005833	0260	14610								
058		UBS	0300	0160	34380	2752			14610								
		STD	0400	0202	3450	2759	0005248	0323	14643								
058		UBS	0400	0202	34500	2759			14643								
		STD	0500	0198	3453	2762	0005027	0375	14658								
058		UBS	0500	0198	34530	2762			14658								
		STD	0600	0155	3454	2766	0004027	0423	14650								
058		UBS	0600	0155	34540	2766			14650								
		STD	0700	0126	3457	2770	0004100	0467	14660								
058		UBS	0700	0126	34570	2770			14660								
		STD	0800	0092	3458	2773	0003855	0507	14662								
058		UBS	0800	0092	34580	2773			14662								
		STD	0900	0066	3458	2775	0003650	0545	14667								
058		UBS	0900	0066	34580	2775			14667								

REFERENCE CITY ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	OBS. INDIC.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
51818U	WE	74510N	069040W		259	49	07	26	108	1970	WE3	016	1372		00	0	X		45	X	9	0016

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
LT	SU	1c	SC9	680	-004	-006	3		

MESSAGE TIME HR /10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C/C
		STD	0000	-0105	3115	2506	0029090	0000	14391								
108		UBS	0000	-0105	31150	2506			14391								
		STD	0010	-0103	3180	2559	0024084	0026	14402								
108		UBS	0010	-0103	31800	2559			14402								
		STD	0020	-0055	3322	2673	0013213	0045	14427								
108		UBS	0020	-0055	33220	2673			14427								
		STD	0030	-0125	3335	2688	0011813	0057	14417								
108		UBS	0030	-0125	33350	2688			14417								
		STD	0050	-0124	3345	2697	0010928	0080	14404								
108		UBS	0050	-0124	33450	2697			14404								
		STD	0075	-0170	3353	2700	0010584	0107	14406								
108		UBS	0075	-0170	33530	2700			14406								
		STD	0100	-0129	3355	2702	0010413	0133	14411								
108		UBS	0100	-0129	33550	2702			14411								
		STD	0125	-0156	3361	2706	0009976	0159	14422								
108		UBS	0125	-0156	33610	2706			14422								
		STD	0150	-0115	3372	2714	0009246	0183	14447								
108		UBS	0150	-0115	33720	2714			14447								
108		UBS	0175	-0066	33830	2721			14475								
		STD	0200	-0011	3395	2729	0007923	0226	14506								
108		UBS	0200	-0011	33950	2729			14506								
108		UBS	0225	0026	34020	2732			14528								
		STD	0250	0036	3412	2740	0006865	0263	14539								
108		UBS	0250	0036	34120	2740			14539								
		STD	0300	0111	3428	2746	0006164	0295	14583								
108		UBS	0300	0111	34280	2746			14583								
		STD	0400	0180	3446	2758	0005359	0353	14633								
108		UBS	0400	0180	34460	2758			14633								
		STD	0500	0195	3454	2763	0004925	0404	14657								
108		UBS	0500	0195	34540	2763			14657								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG. STATION	MARSden SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	

315130 WE 7504UN 06027JA 255 50 07 26 128 1970 WLS 017 0730 00 U X 45 X S 0017

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

L1 SD 16 SC5 C80 -004 -006 1

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Delta \rho$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	SI CODE
		STL	0000	-0053	3200	2574	0022587	0000	14408								
120		UBS	0000	-0053	32000	2574			14408								
		STU	0010	-0111	3272	2633	0017000	0019	14411								
120		UBS	0010	-0111	32720	2633			14411								
		STL	0020	-0145	3324	2670	0012912	0034	14404								
120		UBS	0020	-0145	33240	2670			14404								
		STL	0030	-0145	3330	2680	0011713	0047	14400								
120		UBS	0030	-0145	33300	2680			14400								
		STL	0030	-0167	3345	2694	0011225	0070	14402								
120		UBS	0030	-0167	33450	2694			14402								
		STL	0075	-0175	3353	2700	0010574	0097	14403								
120		UBS	0075	-0175	33530	2700			14403								
		STL	0100	-0169	3355	2705	0010100	0123	14411								
120		UBS	0100	-0169	33550	2705			14411								
		STL	0125	-0154	3367	2711	0009517	0148	14423								
120		UBS	0125	-0154	33670	2711			14423								
		STL	0150	-0165	3374	2715	0009135	0171	14452								
120		UBS	0150	-0165	33740	2715			14452								
120		UBS	0175	-0068	33640	2722			14474								
		STL	0200	-0033	3395	2730	0007020	0213	14436								
120		UBS	0200	-0033	33950	2730			14436								
120		UBS	0225	0020	34050	2735			14520								
		STL	0250	0048	3411	2738	0007038	0250	14544								
120		UBS	0250	0048	34110	2738			14544								
		STL	0300	0058	3425	2747	0006306	0284	14577								
120		UBS	0300	0058	34250	2747			14577								
		STL	0400	0100	3447	2758	0005359	0342	14635								
120		UBS	0400	0100	34470	2758			14635								
		STL	0500	0150	3453	2762	0004953	0394	14655								
120		UBS	0500	0150	34530	2762			14655								
		STL	0600	0153	3456	2768	0004454	0441	14655								
120		UBS	0600	0153	34560	2768			14655								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					CRUISE NO.	STATION NUMBER	10"		1"	MO			DAY	HR./10	DIR.		HGT PER	SEA	

31810U	WE	75150N	06000W	255	07	26	152	1970	WE3	018	0455	00	0	X	45	X	9	0018
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WATER			WIND			BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	DRY BULB		WET BULB				

07	50	11	505	090	001	000	4
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MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D. DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NO.
		STD	0000	-0115	3256	2620	0018229	0000	14406								
152		UBS	0000	-0115	3256	2620			14406								
		STD	0010	-0130	3305	2600	0014421	0010	14407								
152		UBS	0010	-0130	3305	2600			14407								
		STD	0020	-0152	3332	2683	0012278	0029	14402								
152		UBS	0020	-0152	3332	2683			14402								
		STD	0030	-0163	3343	2692	0011403	0041	14400								
152		UBS	0030	-0163	3343	2692			14400								
		STD	0050	-0173	3351	2699	0010740	0063	14400								
152		UBS	0050	-0173	3351	2699			14400								
		STD	0075	-0173	3354	2701	0010502	0090	14404								
152		UBS	0075	-0173	3354	2701			14404								
		STD	0100	-0171	3354	2701	0010405	0110	14409								
152		UBS	0100	-0171	3354	2701			14409								
		STD	0125	-0160	3363	2708	0009792	0141	14417								
152		UBS	0125	-0160	3363	2708			14417								
		STD	0150	-0091	3374	2715	0009187	0165	14458								
152		UBS	0150	-0091	3374	2715			14458								
		STD	0200	-0020	3385	2722	0008362	0209	14541								
152		UBS	0200	-0020	3385	2722			14541								
		STD	0225	0094	3403	2729			14559								
152		UBS	0225	0094	3403	2729			14559								
		STD	0250	0114	3409	2733	0007013	0249	14573								
152		UBS	0250	0114	3409	2733			14573								
		STD	0300	0155	3423	2741	0006804	0285	14602								
152		UBS	0300	0155	3423	2741			14602								
		STD	0400	0180	3443	2755	0005592	0347	14632								
152		UBS	0400	0180	3443	2755			14632								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					CRUISE NO.	STATION NUMBER	10"		1"	MO			DAY	HR./10	DIR.		HGT PER	SEA	

318100	WE	75254N	06739W	255	07	26	175	1970	WE3	019	0430	00	0	X	20	X	9	0019
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WATER			WIND			BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	DRY BULB		WET BULB				

07	50	12	505	110	000	000	3
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MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D. DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NO.
		STD	0000	-0092	3230	2599	0020206	0000	14413								
179		UBS	0000	-0092	3230	2599			14413								
		STD	0010	-0099	3283	2642	0010195	0018	14419								
179		UBS	0010	-0099	3283	2642			14419								
		STD	0020	-0126	3326	2677	0012813	0032	14414								
179		UBS	0020	-0126	3326	2677			14414								
		STD	0030	-0142	3341	2690	0011003	0045	14409								
179		UBS	0030	-0142	3341	2690			14409								
		STD	0050	-0163	3354	2701	0010539	0067	14405								
179		UBS	0050	-0163	3354	2701			14405								
		STD	0075	-0169	3357	2704	0010277	0093	14407								
179		UBS	0075	-0169	3357	2704			14407								
		STD	0100	-0165	3359	2705	0010110	0116	14413								
179		UBS	0100	-0165	3359	2705			14413								
		STD	0125	-0120	3368	2711	0009543	0143	14440								
179		UBS	0125	-0120	3368	2711			14440								
		STD	0150	-0040	3379	2717	0009020	0160	14483								
179		UBS	0150	-0040	3379	2717			14483								
		STD	0175	0019	3389	2722			14515								
179		UBS	0175	0019	3389	2722			14515								
		STD	0200	0070	3399	2727	0008076	0209	14544								
179		UBS	0200	0070	3399	2727			14544								
		STD	0225	0102	3405	2730			14563								
179		UBS	0225	0102	3405	2730			14563								
		STD	0250	0131	3413	2735	0007430	0247	14581								
179		UBS	0250	0131	3413	2735			14581								
		STD	0300	0168	3424	2741	0006893	0263	14608								
179		UBS	0300	0168	3424	2741			14608								
		STD	0400	0180	3443	2755	0005592	0346	14632								
179		UBS	0400	0180	3443	2755			14632								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
518180	WE	7542UN	067110W	255	57	07	20	1976	WE	020	0400	00	0	X		28	X	9			0020	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		SPECIAL OBSERVATIONS										
UT	SU	12	505	110	000	000	3															

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	3 CODE
		STC	0000	-0070	3155	2570	0023040	0000	14418								
197		UBS	0000	-0070	31550	2570			14418								
		STC	0010	-0052	3305	2659	0014530	0018	14425								
197		UBS	0010	-0052	33050	2659			14425								
		STC	0020	-0135	3335	2685	0012099	0032	14411								
197		UBS	0020	-0135	33350	2685			14411								
		STC	0030	-0149	3343	2692	0011440	0045	14407								
197		UBS	0030	-0149	33430	2692			14407								
		STC	0050	-0154	3345	2697	0010947	0060	14409								
197		UBS	0050	-0154	33450	2697			14409								
		STC	0075	-0159	3353	2700	0010613	0093	14411								
197		UBS	0075	-0159	33530	2700			14411								
		STC	0100	-0162	3357	2703	0010280	0119	14414								
197		UBS	0100	-0162	33570	2703			14414								
		STC	0125	-0115	3364	2708	0009874	0144	14441								
197		UBS	0125	-0115	33640	2708			14441								
		STC	0150	-0071	3372	2713	0009412	0168	14467								
197		UBS	0150	-0071	33720	2713			14467								
		STC	0175	0000	33840	2715			14500								
197		UBS	0175	0000	33840	2715			14500								
		STC	0200	0056	3394	2724	0008370	0213	14537								
197		UBS	0200	0056	33940	2724			14537								
		STC	0225	0101	34060	2731			14503								
197		UBS	0225	0101	34060	2731			14503								
		STC	0250	0128	3404	2728	0008051	0254	14579								
197		UBS	0250	0128	34040	2728			14579								
		STC	0300	0171	3425	2742	0006841	0291	14609								
197		UBS	0300	0171	34250	2742			14609								
		STC	0400	0206	3440	2751	0006032	0355	14643								
197		UBS	0400	0206	34400	2751			14643								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
518180	WE	75457N	066400W	255	50	07	20	1976	WE	021	0123	00	0	X		45	X	9			0021	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		SPECIAL OBSERVATIONS										
UT	SU	15	505	120	-001	-006	3															

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	3 CODE
		STC	0000	-0016	3220	2588	0021318	0000	14447								
213		UBS	0000	-0016	32200	2588			14447								
		STC	0010	-0066	3252	2646	0015017	0016	14435								
213		UBS	0010	-0066	32520	2646			14435								
		STC	0020	-0100	3328	2678	0012734	0032	14426								
213		UBS	0020	-0100	33280	2678			14426								
		STC	0030	-0118	3333	2683	0012293	0045	14420								
213		UBS	0030	-0118	33330	2683			14420								
		STC	0050	-0126	3340	2688	0011738	0069	14423								
213		UBS	0050	-0126	33400	2688			14423								
		STC	0075	-0127	3347	2694	0011162	0097	14425								
213		UBS	0075	-0127	33470	2694			14425								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318180	WE	75550N	08000W	259	58	07	27	028	1976	WE3	022	0300		00	0	X		45	X	9		0022			
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS									
				COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB		WET BULB													
				BT		SO		12		SC4		132		000		-005		3							

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	CLD
		STD	0000	-0060	3170	2545	0024950	0000	14417								
J28		UBS	0000	-0060	31700	2545			14419								
		STD	0010	-0060	3285	2642	0016142	0020	14433								
J28		UBS	0010	-0060	32850	2642			14433								
		STD	0020	-0133	3327	2678	0012714	0035	14410								
J28		UBS	0020	-0133	33270	2678			14410								
		STD	0030	-0142	3332	2683	0012299	0047	14408								
J28		UBS	0030	-0142	33320	2683			14408								
		STD	0050	-0158	3340	2694	0011173	0071	14406								
J28		UBS	0050	-0158	33400	2694			14406								
		STD	0075	-0165	3353	2700	0010584	0098	14406								
J28		UBS	0075	-0165	33530	2700			14405								
		STD	0100	-0165	3355	2702	0010422	0124	14411								
J28		UBS	0100	-0168	33550	2702			14411								
		STD	0125	-0105	3365	2708	0009833	0149	14440								
J28		UBS	0125	-0105	33650	2708			14440								
		STD	0150	-0055	3372	2712	0009482	0173	14475								
J28		UBS	0150	-0055	33720	2712			14475								
		STD	0175	0000	33850	2720			14509								
J28		UBS	0175	0000	33850	2720			14509								
		STD	0200	0080	3395	2727	0008145	0218	14548								
J28		UBS	0200	0080	33950	2727			14548								
		STD	0225	0096	34020	2728			14560								
J28		UBS	0225	0096	34020	2728			14560								
		STD	0250	0100	34030	2725	0007973	0258	14560								
J28		UBS	0250	0100	34030	2725			14560								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318180	WE	75460N	08820W	259	58	07	27	051	1976	WE3	023	0265		00	0	0		44	X	9		0023			
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS									
				COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB		WET BULB													
				BT		SO		10		SC5		135		000		-000		2							

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	CLD
		STD	0000	-0080	3190	2566	0023394	0000	14413								
051		UBS	0000	-0080	31900	2566			14413								
		STD	0010	-0118	3250	2616	0016675	0021	14405								
J51		UBS	0010	-0118	32500	2616			14405								
		STD	0020	-0137	3320	2673	0013238	0037	14408								
J51		UBS	0020	-0137	33200	2673			14408								
		STD	0030	-0155	3339	2685	0011729	0049	14403								
J51		UBS	0030	-0155	33390	2685			14403								
		STD	0050	-0167	3350	2698	0010837	0072	14403								
J51		UBS	0050	-0167	33500	2698			14403								
		STD	0075	-0172	3356	2703	0010349	0098	14405								
J51		UBS	0075	-0172	33560	2703			14405								
		STD	0100	-0160	3358	2704	0010188	0124	14411								
J51		UBS	0100	-0168	33580	2704			14411								
		STD	0125	-0125	3366	2710	0009690	0149	14437								
J51		UBS	0125	-0125	33660	2710			14437								
		STD	0150	-0040	3386	2723	0008479	0171	14484								
J51		UBS	0150	-0040	33860	2723			14484								
		STD	0175	0035	33940	2725			14523								
J51		UBS	0175	0035	33940	2725			14523								
		STD	0200	0078	3404	2731	0007748	0212	14548								
J51		UBS	0200	0078	34040	2731			14548								
		STD	0225	0115	34140	2737			14570								
J51		UBS	0225	0115	34140	2737			14570								
		STD	0250	0134	3418	2735	0007079	0249	14583								
J51		UBS	0250	0134	34180	2735			14583								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE INDICED	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	NO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
318150		WE	75320N	064050W	25	5	07	27	083	1970	WE3	024	0530			00	0	X		45	X	9	0024

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	00	11	06	139	-007	-011	2		

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SID ₄ -S $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	-0090	3200	2574	0022596	0000	14409								
083		UBS	0000	-0090	3200	2574			14409								
		STL	0010	-0120	3300	2656	0014820	0018	14411								
083		UBS	0010	-0120	3300	2656			14411								
		STD	0020	-0135	3321	2674	0013100	0032	14409								
082		UBS	0020	-0135	3321	2674			14409								
		STD	0030	-0156	3343	2692	0011421	0045	14403								
082		UBS	0030	-0156	3343	2692			14403								
		STD	0050	-0171	3354	2701	0010520	0060	14401								
083		UBS	0050	-0171	3354	2701			14401								
		STD	0075	-0172	3358	2704	0010195	0092	14405								
083		UBS	0075	-0172	3358	2704			14405								
		STD	0100	-0172	3359	2705	0010105	0118	14410								
083		UBS	0100	-0172	3359	2705			14410								
		STD	0125	-0160	3370	2712	0009465	0142	14449								
082		UBS	0125	-0160	3370	2712			14449								
		STL	0150	-0026	3362	2719	0005044	0165	14480								
083		UBS	0150	-0028	3362	2719			14480								
		UBS	0175	0028	3365	2722			14514								
		STD	0200	0070	3357	2726	0000229	0208	14544								
082		UBS	0200	0070	3357	2726			14544								
		UBS	0225	0110	3400	2731			14567								
		STD	0250	0127	3413	2735	0007407	0247	14580								
082		UBS	0250	0127	3413	2735			14580								
		STD	0300	0165	3425	2742	0000791	0262	14606								
082		UBS	0300	0165	3425	2742			14606								
		STD	0400	0194	3450	2760	0005177	0342	14639								
082		UBS	0400	0194	3450	2760			14639								
		STD	0500	0159	3454	2766	0004027	0391	14641								
082		UBS	0500	0159	3454	2766			14641								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	ORBIT INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER		
					10'	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER				SEA	
310160	WE	75230N	065400W		255	59	07	27	103	1970	WES	025			10	U	2		U1	01	0025

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D OYN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	SCC
		STC	0000	0050	3175	2545	0025053	0000	14471								
103		UBS	0000	0050	31750	2545			14471								
		STD	0010	-0052	3250	2647	001567	0020	14423								
103		UBS	0010	-0052	32500	2647			14423								
		STD	0020	-0122	3325	2600	0012597	0034	14410								
103		UBS	0020	-0122	33250	2600			14410								
		STD	0030	-0153	3340	2685	0011657	0040	14404								
103		UBS	0030	-0153	33400	2685			14404								
		STD	0050	-0161	3347	2655	0011082	0069	14405								
103		UBS	0050	-0161	33470	2655			14405								
		STD	0075	-0168	3354	2701	0010512	0096	14407								
103		UBS	0075	-0168	33540	2701			14407								
		STD	0100	-0164	3355	2705	0010120	0122	14413								
103		UBS	0100	-0164	33550	2705			14413								
		STD	0125	-0135	3364	2708	0009804	0147	14432								
103		UBS	0125	-0135	33640	2708			14432								
		STD	0150	-0073	3375	2715	0009176	0170	14467								
103		UBS	0150	-0073	33750	2715			14467								
		STD	0200	-0008	33850	2720			14502								
103		UBS	0200	-0008	33850	2720	0007949	0213	14520								
		STD	0225	0036	3398	2729			14520								
103		UBS	0225	0036	33980	2729			14520								
		STD	0250	0115	3415	2737	0007105	0251	14575								
103		UBS	0250	0115	34150	2737			14575								
		STD	0300	0185	3430	2745	0006116	0284	14617								
103		UBS	0300	0185	34300	2745			14617								
		STD	0400	0209	3453	2761	0005070	0340	14646								
103		UBS	0400	0209	34530	2761			14646								
		STD	0500	0168	3454	2765	0004701	0389	14645								
103		UBS	0500	0168	34540	2765			14645								
		STD	0600	0081	3455	2772	0003964	0432	14623								
103		UBS	0600	0081	34550	2772			14623								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER																											
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT																													
31618U		WE	75480N	070260W	260	50	07	27	137	1970	HE3	026	0330			15	0	2		01	X	9		0026																											
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mbs)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANSL (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>6T</td> <td>50</td> <td>11</td> <td>506</td> <td>135</td> <td>-007</td> <td>-011</td> <td>3</td> <td></td> <td></td> </tr> </tbody> </table>																										WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	6T	50	11	506	135	-007	-011	3		
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																										
COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																													
6T	50	11	506	135	-007	-011	3																																												

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
		STU	0000	-0033	3161	2541	0025770	0000	14431								
137		UBS	0000	-0033	31610	2541			14431								
		STU	0010	-0005	3240	2603	0014628	0022	14436								
137		UBS	0010	-0005	32400	2603			14456								
		STU	0020	-0060	3310	2662	0014255	0037	14442								
137		UBS	0020	-0060	33100	2662			14442								
		STU	0030	-0109	3334	2683	0012239	0053	14424								
137		UBS	0030	-0109	33340	2683			14424								
		STU	0040	-0145	3351	2698	0010622	0076	14413								
137		UBS	0040	-0145	33510	2698			14413								
		STU	0075	-0156	3360	2706	0010061	0102	14412								
137		UBS	0075	-0156	33600	2706			14412								
		STU	0100	-0118	3370	2713	0009416	0126	14437								
137		UBS	0100	-0118	33700	2713			14437								
		STU	0125	-0064	3376	2716	0009065	0149	14458								
137		UBS	0125	-0064	33760	2716			14458								
		STU	0150	-0043	3390	2726	0008162	0171	14463								
137		UBS	0150	-0043	33900	2726			14463								
		STU	0200	0064	33990	2726			14537								
137		UBS	0200	0074	3403	2730	0007600	0211	14546								
		STU	0230	0074	34030	2730			14546								
137		UBS	0230	0111	34160	2740			14567								
		STU	0250	0137	3421	2741	0006874	0247	14565								
137		UBS	0250	0137	34210	2741			14565								
		STU	0300	0166	3435	2750	0006057	0280	14609								
137		UBS	0300	0166	34350	2750			14609								
		STU	0400	0032	3435	2755	0005118	0336	14565								
137		UBS	0400	0032	34350	2755			14565								
		STU	0500	0129	3454	2768	0004381	0383	14626								
137		UBS	0500	0129	34540	2768			14626								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER																											
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT																													
31818U		WE	75564N	065340W	255	55	07	27	167	1970	HE3	027	0457			00	0	X		44	X	9		0027																											
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mbs)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANSL (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>6T</td> <td>50</td> <td>10</td> <td>564</td> <td>145</td> <td>000</td> <td>000</td> <td>5</td> <td></td> <td></td> </tr> </tbody> </table>																										WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	6T	50	10	564	145	000	000	5		
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																										
COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																													
6T	50	10	564	145	000	000	5																																												

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
		STU	0000	-0052	3150	2533	0026550	0000	14420								
167		UBS	0000	-0052	31500	2533			14420								
		STU	0010	-0115	3235	2607	0019526	0023	14405								
167		UBS	0010	-0115	32350	2607			14405								
		STU	0020	-0129	3298	2655	0014948	0040	14406								
167		UBS	0020	-0129	32980	2655			14406								
		STU	0030	-0144	3330	2681	0012444	0054	14407								
167		UBS	0030	-0144	33300	2681			14407								
		STU	0050	-0163	3354	2701	0010539	0077	14405								
167		UBS	0050	-0163	33540	2701			14405								
		STU	0075	-0172	3357	2704	0010276	0105	14405								
167		UBS	0075	-0172	33570	2704			14405								
		STU	0100	-0164	3357	2703	0010274	0128	14413								
167		UBS	0100	-0164	33570	2703			14413								
		STU	0125	-0136	3363	2708	0009885	0153	14431								
167		UBS	0125	-0136	33630	2708			14431								
		STU	0150	-0062	3370	2711	0009605	0178	14471								
167		UBS	0150	-0062	33700	2711			14471								
		STU	0175	-0015	33600	2717			14498								
167		UBS	0175	-0015	33600	2717			14532								
		STU	0200	0045	3392	2723	0006459	0223	14532								
167		UBS	0200	0045	33920	2723			14532								
		STU	0225	0063	34050	2733			14540								
167		UBS	0225	0063	34050	2733			14570								
		STU	0250	0164	3415	2738	0007094	0262	14570								
167		UBS	0250	0164	34150	2738			14570								
		STU	0300	0175	3431	2746	0006413	0296	14612								
167		UBS	0300	0175	34310	2746			14612								
		STU	0400	0155	3447	2760	0005091	0353	14622								
167		UBS	0400	0155	34470	2760			14622								

REFERENCE C/TAT CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
316100	WE	7043N	065000W	259	69	07 27 166	1970	WE3	028			0146			00	0	X		44	6	7	0028
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
					UT	SD	18	SG5	145	-011	-017	3										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STC	0000	-0012	3230	2596	0020575	0000	14450								
100		UBS	0000	-0012	32300	2596			14450								
		STC	0010	-0015	3270	2628	0017492	0019	14450								
100		UBS	0010	-0015	32700	2628			14456								
		STC	0020	-0015	3286	2641	0016266	0035	14460								
100		UBS	0020	-0015	32860	2641			14460								
		STC	0030	-0033	3304	2656	0014814	0051	14455								
100		UBS	0030	-0033	33040	2656			14455								
		STC	0050	-0083	3334	2682	0012322	0078	14440								
100		UBS	0050	-0083	33340	2682			14440								
		STC	0075	-0148	3346	2694	0011170	0108	14415								
100		UBS	0075	-0148	33460	2694			14415								
		STC	0100	-0141	3356	2702	0010421	0135	14424								
100		UBS	0100	-0141	33560	2702			14424								

REFERENCE C/TAT CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
316100	WE	70120N	065470W	259	69	07 27 166	1970	WE3	029			0207			00	0	X		44	6	7	0029
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
					UT	SD	18	SG5	145	-011	-017	3										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STC	0000	0000	3160	2539	0025570	0000	14440								
203		UBS	0000	0000	31600	2539			14440								
		STC	0010	-0053	3216	2586	0021485	0023	14431								
203		UBS	0010	-0053	32160	2586			14431								
		STC	0020	-0048	3287	2643	0016050	0042	14444								
203		UBS	0020	-0048	32870	2643			14444								
		STC	0030	-0060	3303	2657	0014784	0057	14443								
203		UBS	0030	-0060	33030	2657			14443								
		STC	0050	-0128	3337	2686	0011945	0084	14419								
203		UBS	0050	-0128	33370	2686			14419								
		STC	0075	-0152	3353	2700	0010633	0112	14414								
203		UBS	0075	-0152	33530	2700			14414								
		STC	0100	-0135	3361	2706	0010053	0138	14427								
203		UBS	0100	-0135	33610	2706			14427								
		STC	0125	-0160	3388	2710	0009616	0163	14449								
203		UBS	0125	-0160	33880	2710			14449								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRL INCH	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE		78240N	073230W	200	03	07	30	198	1970	WE3	030	0439		00	0	X		02	6	2	0030
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB														
		DT	SD	02	S14	149	C11	000	7													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	S.C.C.					
190		STD	0000	0180	3200	2561	0023084	0000	14533													
		UBS	0000	0180	3200	2561			14533													
		STD	0010	-0052	3220	2569	0021177	0022	14432													
190		UBS	0010	-0052	3220	2569			14432													
		STD	0020	-0076	3230	2598	0020327	0043	14423													
198		UBS	0020	-0076	3230	2598			14423													
		STD	0030	-0055	3254	2650	0015351	0061	14425													
198		UBS	0030	-0055	3254	2650			14425													
		STD	0050	-0105	3317	2669	0013548	0090	14427													
198		UBS	0050	-0105	3317	2669			14427													
		STD	0075	-0109	3325	2675	0012602	0122	14431													
198		UBS	0075	-0109	3325	2675			14431													
		STD	0100	-0110	3348	2695	0011125	0152	14437													
198		UBS	0100	-0110	3348	2695			14437													
		STD	0125	-0106	3358	2703	0010355	0179	14444													
198		UBS	0125	-0106	3358	2703			14444													
		STD	0150	-0100	3369	2701	0010539	0205	14545													
198		UBS	0150	-0100	3369	2701			14545													
		STD	0175	-0092	3369	2727			14464													
198		UBS	0175	-0092	3369	2727			14464													
		STD	0200	-0082	3356	2732	0007522	0250	14474													
198		UBS	0200	-0082	3356	2732			14474													
		STD	0225	-0073	3360	2732			14482													
198		UBS	0225	-0073	3360	2732			14482													
		STD	0250	-0058	3403	2737	0007090	0287	14494													
198		UBS	0250	-0058	3403	2737			14494													
		STD	0300	-0045	3413	2745	0006366	0320	14510													
198		UBS	0300	-0045	3413	2745			14510													
		STD	0400	-0040	3419	2749	0005907	0362	14530													
198		UBS	0400	-0040	3419	2749			14530													

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRL INCH	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE		78200N	074100W	200	04	07	30	224	1970	WE3	031	0556		00	0	X		02	6	2	0031
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB														
		DT	SD	02	S14	149	011	000	7													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	S.C.C.					
224		STD	0000	0000	3150	2531	0026740	0000	14444													
		UBS	0000	0000	3150	2531			14444													
		STD	0010	-0007	3160	2539	0025946	0026	14444													
224		UBS	0010	-0007	3160	2539			14444													
		STD	0020	-0115	3190	2567	0023278	0051	14400													
224		UBS	0020	-0115	3190	2567			14400													
		STD	0030	-0128	3212	2585	0021548	0073	14398													
224		UBS	0030	-0128	3212	2585			14398													
		STD	0050	-0148	3281	2641	0016181	0111	14402													
224		UBS	0050	-0148	3281	2641			14402													
		STD	0075	-0145	3307	2662	0014175	0149	14411													
224		UBS	0075	-0145	3307	2662			14411													
		STD	0100	-0127	3335	2685	0012068	0181	14428													
224		UBS	0100	-0127	3335	2685			14428													
		STD	0125	-0109	3363	2707	0009967	0209	14444													
224		UBS	0125	-0109	3363	2707			14444													
		STD	0150	-0053	3360	2726	0008717	0232	14458													
224		UBS	0150	-0053	3360	2726			14458													
		STD	0175	-0075	33520	2729			14472													
224		UBS	0175	-0075	33520	2729			14472													
		STD	0200	-0070	3357	2733	0007493	0273	14479													
224		UBS	0200	-0070	3357	2733			14479													
		STD	0225	-0055	34050	2739			14492													
224		UBS	0225	-0055	34050	2739			14492													
		STD	0250	-0055	34070	2740	0006785	0309	14496													
224		UBS	0250	-0055	34070	2740			14496													
		STD	0300	-0050	3411	2744	0006464	0342	14504													
224		UBS	0300	-0050	3411	2744			14504													
		STD	0400	-0042	3426	2755	0005367	0401	14530													
224		UBS	0400	-0042	3426	2755			14530													
		STD	0500	-0034	3430	2758	0005087	0453	14551													
224		UBS	0500	-0034	3430	2758			14551													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						UT	SD	04	126	032													

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	Si D ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	STATION NO.
		STO	0000	-0134	3160	2555	0024020	0000	14386								
	005	UBS	0000	-0134	31800	2555			14386								
		STO	0010	-0135	3200	2576	0022470	0023	14390								
	005	UBS	0010	-0135	32000	2576			14390								
		STL	0020	-0146	3216	2585	0021211	0045	14389								
	005	UBS	0020	-0146	32160	2585			14389								
		STO	0030	-0154	3244	2612	0019020	0065	14390								
	005	UBS	0030	-0154	32440	2612			14390								
		STO	0050	-0150	3266	2625	0017330	0101	14395								
	005	UBS	0050	-0150	32660	2625			14399								
		STL	0075	-0147	3311	2666	0013867	0140	14411								
	005	UBS	0075	-0147	33110	2666			14411								
		STC	0100	-0145	3336	2686	0011936	0172	14419								
	005	UBS	0100	-0145	33360	2686			14419								
		STO	0125	-0114	33510	2657	0010867	0201	14440								
	005	UBS	0125	-0114	33510	2657			14440								
		STC	0150	-0100	3363	2706	0009994	0227	14452								
	005	UBS	0150	-0100	33630	2706			14452								
		STC	0200	-0066	3400	2735	0007279	0270	14482								
	005	UBS	0200	-0066	34000	2735			14482								
		STC	0250	-0052	34050	2738			14493								
	005	UBS	0250	-0052	34050	2738			14493								
		STC	0300	-0048	3417	2748	0006040	0336	14509								
	005	UBS	0300	-0048	34170	2748			14509								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						UT	SD	05	114	034													

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	Si D ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	STATION NO.
		STO	0000	0040	3160	2537	0026151	0000	14464								
	071	UBS	0000	0040	31600	2537			14464								
		STL	0010	0060	3180	2552	0024714	0025	14478								
	071	UBS	0010	0060	31800	2552			14478								
		STC	0020	0064	3250	2607	0019494	0047	14500								
	071	UBS	0020	0064	32500	2607			14500								
		STO	0030	0065	3266	2621	0018179	0066	14495								
	071	UBS	0030	0065	32660	2621			14495								
		STO	0050	-0022	3284	2640	0016381	0100	14401								
	071	UBS	0050	-0022	32840	2640			14401								
		STC	0075	-0075	3301	2655	0014859	0140	14443								
	071	UBS	0075	-0075	33010	2655			14443								
		STO	0100	-0148	3317	2671	0013389	0175	14415								
	071	UBS	0100	-0148	33170	2671			14415								
		STO	0125	-0146	3325	2677	0012758	0208	14421								
	071	UBS	0125	-0146	33250	2677			14421								
		STO	0150	-0148	3338	2688	0011734	0238	14426								
	071	UBS	0150	-0148	33380	2688			14426								
		STO	0200	-0120	3374	2710	0009048	0290	14453								
	071	UBS	0200	-0120	33740	2710			14453								
		STO	0250	-0060	33860	2723			14487								
	071	UBS	0250	-0060	33860	2723			14487								
		STO	0300	-0010	3393	2727	0008076	0333	14515								
	071	UBS	0300	-0010	33930	2727			14515								
		STL	0300	-0010	3412	2742	0006620	0370	14520								
	071	UBS	0300	-0010	34120	2742			14520								
		STL	0400	-0045	3418	2745	0005955	0433	14527								
	071	UBS	0400	-0045	34180	2745			14527								
		STL	0500	-0045	3425	2754	0005402	0469	14545								
	071	UBS	0500	-0045	34250	2754			14545								
		STC	0600	-0040	3431	2755	0004959	0541	14565								
	071	UBS	0600	-0040	34310	2755			14565								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	

5181BU	NC	7054UN	071210N	200	01	07	31	1970	HE3	034	100+		30	2		02	6	1	0034
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WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB			

01	SD	16	S12	045	040	034	19			
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MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CC
		STU	0000	0250	3120	2492	0030434	0000	14553								
145		UBS	0000	0250	31200	2492			14553								
		STL	0010	0225	3200	2590	0024104	0027	14554								
145		UBS	0010	0225	32000	2590			14554								
		STL	0020	0020	3300	2651	0015354	0047	14478								
145		UBS	0020	0020	33000	2651			14478								
		STU	0030	-0065	3321	2671	0015391	0051	14443								
145		UBS	0030	-0065	33210	2671			14443								
		STL	0050	-0137	3344	2692	0011303	0066	14410								
145		UBS	0050	-0137	33440	2692			14410								
		STL	0075	-0100	3300	2700	0010072	0113	14411								
145		UBS	0075	-0100	33000	2700			14411								
		STU	0100	-0172	3360	2711	0009564	0137	14411								
145		UBS	0100	-0172	33600	2711			14411								
		STL	0125	-0150	3370	2714	0005251	0161	14422								
145		UBS	0125	-0150	33700	2714			14422								
		STU	0150	-0082	3373	2714	0005253	0164	14402								
145		UBS	0150	-0082	33730	2714			14402								
145		UBS	0175	-0035	33610	2710			14489								
		STU	0200	-0014	3350	2725	0000250	0228	14504								
145		UBS	0200	-0014	33500	2725			14504								
145		UBS	0225	0022	34000	2731			14520								
		STL	0250	0030	3405	2735	0007385	0267	14535								
145		UBS	0250	0030	34050	2735			14535								
		STU	0300	0093	3410	2740	0006949	0303	14573								
145		UBS	0300	0093	34100	2740			14573								
		STL	0400	0100	3434	2753	0005072	0360	14598								
145		UBS	0400	0100	34340	2753			14598								
		STU	0500	0100	3440	2758	0005219	0421	14613								
145		UBS	0500	0100	34400	2758			14613								
		STU	0600	0091	3443	2761	0004935	0471	14626								
145		UBS	0600	0091	34430	2761			14626								
		STU	0700	0090	3446	2764	0004725	0520	14642								
145		UBS	0700	0090	34460	2764			14642								
		STU	0800	0090	3448	2766	0004588	0566	14659								
145		UBS	0800	0090	34480	2766			14659								

REFERENCE CRUISE CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
						10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
315100	WE	7c403N	C72110W	260	07	31	168	1970	WE3	035	0466	03	2	2	02	611	0035				
WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH'S												
01	50	16	S12	C45	C40	U34	9														

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\frac{\Delta \sigma}{\Delta T}$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STD	0000	0265	3265	2606	0019561	0000	14579								
		UBS	0000	0265	32650	2606			14579								
		STD	0010	0250	3270	2612	0019066	0019	14575								
		UBS	0010	0250	32700	2612			14575								
		STD	0020	0170	3275	2622	0018114	0037	14542								
		UBS	0020	0170	32750	2622			14542								
		STD	0030	-0050	3325	2675	0012991	0053	14432								
		UBS	0030	-0050	33250	2675			14432								
		STD	0050	-0148	3354	2701	0010587	0077	14412								
		UBS	0050	-0148	33540	2701			14412								
		STD	0075	-0166	3365	2710	0009673	0102	14409								
		UBS	0075	-0166	33650	2710			14409								
		STD	0100	-0150	3373	2716	0009092	0125	14422								
		UBS	0100	-0150	33730	2716			14422								
		STD	0125	-0100	3380	2720	0006059	0148	14451								
		UBS	0125	-0100	33800	2720			14451								
		STD	0150	-0028	3391	2726	0008160	0169	14490								
		UBS	0150	-0028	33910	2726			14490								
		STD	0175	0023	34000	2731			14519								
		UBS	0175	0023	34000	2731			14519								
		STD	0200	0071	3408	2735	0007402	0208	14546								
		UBS	0200	0071	34080	2735			14546								
		STD	0225	0000	34120	2737			14557								
		UBS	0225	0000	34120	2737			14557								
		STD	0250	0055	3417	2740	0006881	0243	14500								
		UBS	0250	0055	34170	2740			14500								
		STD	0300	0085	3424	2747	0006286	0270	14571								
		UBS	0300	0085	34240	2747			14571								

REFERENCE CRUISE CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
						10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
316180	WE	7c410N	C73580W	260	07	31	207	1970	WE3	036	0549	04	0	1	03	76	0036				
WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH'S												
01	50	09	S16	C66	031	024	7														

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\frac{\Delta \sigma}{\Delta T}$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STD	0000	0242	3280	2620	0018247	0000	14571								
		UBS	0000	0242	32800	2620			14571								
		STD	0010	0205	3280	2623	0017978	0018	14550								
		UBS	0010	0205	32800	2623			14550								
		STD	0020	0010	3310	2659	0014549	0034	14474								
		UBS	0020	0010	33100	2659			14474								
		STD	0030	-0055	3331	2680	0012521	0047	14430								
		UBS	0030	-0055	33310	2680			14430								
		STD	0050	-0122	3346	2693	0011268	0071	14423								
		UBS	0050	-0122	33460	2693			14423								
		STD	0075	-0144	3357	2703	0010336	0098	14416								
		UBS	0075	-0144	33570	2703			14416								
		STD	0100	-0150	3366	2710	0009625	0123	14421								
		UBS	0100	-0150	33660	2710			14421								
		STD	0125	-0125	3371	2714	0009303	0147	14438								
		UBS	0125	-0125	33710	2714			14438								
		STD	0150	-0067	3377	2717	0008972	0170	14460								
		UBS	0150	-0067	33770	2717			14460								
		STD	0175	-0045	33870	2724			14485								
		UBS	0175	-0045	33870	2724			14485								
		STD	0200	0006	3393	2726	0008167	0213	14514								
		UBS	0200	0006	33930	2726			14514								
		STD	0225	0028	34030	2733			14529								
		UBS	0225	0028	34030	2733			14529								
		STD	0250	0074	3411	2737	0007199	0251	14550								
		UBS	0250	0074	34110	2737			14550								
		STD	0300	0066	3420	2745	0006468	0285	14562								
		UBS	0300	0066	34200	2745			14562								
		STD	0400	-0028	3424	2753	0005598	0345	14536								
		UBS	0400	-0028	34240	2753			14536								
		STD	0500	-0020	3431	2758	0005098	0399	14557								
		UBS	0500	-0020	34310	2758			14557								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER		
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	
31d160	WE		76350N	074350W	260	64	07	31	228	1970	WE3	037		0300	U4	0	1		03	7	6		0037
WATER		WIND			BARO-METER		AIR TEMP. °C			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB																
		DT	SD	CS	SIC	C65			031	J24	7												

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	SEC
		STD	0000	0225	3265	2665	0017813	0000	14509								
228		UBS	0000	0225	32850	2625			14509								
		STD	0010	0225	3288	2627	0017589	0017	14571								
228		UBS	0010	0225	32880	2627			14571								
		STD	0020	0222	3297	2635	0010813	0034	14560								
228		UBS	0020	0222	32970	2635			14560								
		STD	0030	-0012	3316	2665	0013984	0050	14607								
228		UBS	0030	-0012	33160	2665			14607								
		STD	0050	-0112	3336	2687	0011511	0076	14427								
228		UBS	0050	-0112	33360	2687			14427								
		STD	0075	-0132	3356	2702	0010457	0104	14424								
228		UBS	0075	-0132	33560	2702			14424								
		STD	0100	-0137	3362	2707	0009971	0129	14427								
228		UBS	0100	-0137	33620	2707			14427								
		STD	0125	-0140	3367	2711	0003550	0154	14430								
228		UBS	0125	-0140	33670	2711			14430								
		STD	0150	-0133	3365	2712	0009420	0177	14438								
228		UBS	0150	-0133	33650	2712			14438								
228		UBS	0175	-0113	33760	2717			14452								
		STD	0200	-0066	3385	2723	0008559	0222	14473								
228		UBS	0200	-0066	33850	2723			14473								
228		UBS	0225	-0055	33920	2728			14490								
		STD	0250	-0043	3400	2734	0007378	0261	14501								
228		UBS	0250	-0043	34000	2734			14501								
		STD	0300	0006	3412	2741	0006714	0296	14533								
228		UBS	0300	0006	34120	2741			14533								
		STD	0400	-0037	3421	2751	0005776	0359	14531								
228		UBS	0400	-0037	34210	2751			14531								
		STD	0500	-0020	3425	2753	0005545	0416	14550								
228		UBS	0500	-0020	34250	2753			14550								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER		
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	
31d180	WE		76350N	075435W	260	65	08	01	012	1970	WE3	038		0284	04	2	2		00	X	0		0038
WATER		WIND			BARO-METER		AIR TEMP. °C			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB																
		DT	SD	CS	S12	C80			032	002	7												

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	SEC
		STD	0000	0150	3275	2620	0018247	0000	14547								
		UBS	0000	0150	32750	2620			14547								
		STD	0010	0150	3277	2622	0018104	0018	14549								
012		UBS	0010	0150	32770	2622			14549								
		STD	0020	0150	3277	2622	0018106	0036	14551								
012		UBS	0020	0150	32770	2622			14551								
		STD	0030	0080	3284	2634	0018086	0053	14504								
012		UBS	0030	0080	32840	2634			14504								
		STD	0050	-0122	3323	2675	0013002	0083	14415								
012		UBS	0050	-0122	33230	2675			14415								
		STD	0075	-0137	3343	2691	0011440	0114	14420								
012		UBS	0075	-0137	33430	2691			14420								
		STD	0100	-0140	3352	2695	0010729	0141	14424								
012		UBS	0100	-0140	33520	2695			14424								
		STD	0125	-0146	3353	2700	0010620	0168	14425								
012		UBS	0125	-0146	33530	2700			14425								
		STD	0150	-0141	3361	2706	0010003	0194	14433								
012		UBS	0150	-0141	33610	2706			14433								
012		UBS	0175	-0122	33680	2711			14447								
		STD	0200	-0100	3377	2718	0008858	0241	14463								
012		UBS	0200	-0100	33770	2718			14463								
012		UBS	0225	-0046	33870	2724			14493								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	SURF INDICT	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
CRUISE NO.	STATION NUMBER					10"	1'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER				SEA	
CTRY CODE	ID. NO.		1/10	1/10																			
	513180	WE	70325N	070415W		20	06	01	025	1970	WE3	033	01B5		00	0	X		00	0	0	0039	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB									
		UT		SD		C3		S13		C98		C33		025		7							

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CC
		STC	0000	0280	3280	2017	0010537	0000	14580								
029		UBS	0000	0280	32800	2017			14588								
		STD	0010	0266	3284	2021	0010133	0018	14584								
029		UBS	0010	0266	32840	2021			14584								
		STD	0020	0264	3287	2024	0017093	0036	14585								
029		UBS	0020	0264	32870	2024			14585								
		STD	0030	0255	3290	2027	0017597	0054	14583								
029		UBS	0030	0255	32900	2027			14583								
		STD	0050	-0120	3308	2063	0014187	0085	14419								
029		UBS	0050	-0120	33080	2063			14419								
		STD	0075	-0149	3325	2077	0012792	0119	14412								
029		UBS	0075	-0149	33250	2077			14412								
		STD	0100	-0154	3337	2087	0011834	0150	14415								
029		UBS	0100	-0154	33370	2087			14415								
		STD	0125	-0147	3346	2094	0011152	0179	14424								
029		UBS	0125	-0147	33460	2094			14424								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	SURF INDICT	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
CRUISE NO.	STATION NUMBER					10"	1'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER				SEA	
CTRY CODE	ID. NO.		1/10	1/10																			
	518100	WE	70275N	077520W		20	07	01	040	1970	WE3	040	0340		00	0	X		00	2	1	0040	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB									
		UT		SD		C3		S13		C98		C33		025		8							

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CC
		STC	0000	0365	3280	2005	0019202	0000	14024								
040		UBS	0000	0265	32800	2005			14024								
		STD	0010	0260	3280	2010	0019222	0019	14024								
040		UBS	0010	0260	32800	2010			14024								
		STD	0020	0320	3280	2014	0010002	0030	14008								
040		UBS	0020	0320	32800	2014			14008								
		STD	0030	0010	3285	2035	0016455	0056	14473								
040		UBS	0030	0010	32850	2035			14473								
		STD	0050	-0140	3316	2070	0013516	0085	14410								
040		UBS	0050	-0140	33160	2070			14410								
		STD	0075	-0151	3334	2084	0012090	0117	14412								
040		UBS	0075	-0151	33340	2084			14412								
		STD	0100	-0154	3341	2090	0011527	0147	14410								
040		UBS	0100	-0154	33410	2090			14410								
		STD	0125	-0152	3351	2098	0010703	0175	14422								
040		UBS	0125	-0152	33510	2098			14422								
		STD	0150	-0150	3356	2102	0010359	0201	14420								
040		UBS	0150	-0150	33560	2102			14420								
		STD	0175	-0147	33630	2108			14434								
040		UBS	0175	-0147	33630	2108			14434								
		STD	0200	-0148	3368	2112	0009419	0251	14439								
040		UBS	0200	-0148	33680	2112			14439								
		STD	0225	-0139	33730	2116			14448								
040		UBS	0225	-0139	33730	2116			14448								
		STD	0250	-0125	3375	2120	0000022	0296	14460								
040		UBS	0250	-0125	33750	2120			14460								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER
318180	WE		76200N	078550W	260	08	01	08	1970	WE3	041	0320		03	3	2		02	4	1	0041
WATER		WIND		BARO- METER		AIR TEMP. °C		VIL		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbal)		DRY BULB		WET BULB		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
LT		SD		CS		S13		C50		C33		0250									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C
		STD	0000	0200	3140	2512	0028573	0000	14533								
063		UBS	0000	0200	31400	2512			14533								
		STL	0010	0250	3150	2548	0025128	0026	14504								
068		UBS	0010	0250	31500	2548			14504								
		STD	0020	0200	3240	2551	0020377	0049	14550								
068		UBS	0020	0200	32400	2551			14550								
		STU	0030	0165	3270	2618	0018468	0009	14541								
060		UBS	0030	0165	32700	2618			14541								
		STD	0050	-0030	3302	2654	0014909	0103	14460								
068		UBS	0050	-0030	33020	2654			14460								
		STD	0075	-0115	3326	2677	0012809	0137	14428								
060		UBS	0075	-0115	33260	2677			14428								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER
318180	WE		76115N	079075W	260	05	01	08	1970	WE3	042	0110		05	0	2		03	4	2	0042
WATER		WIND		BARO- METER		AIR TEMP. °C		VIL		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbal)		DRY BULB		WET BULB		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
LT		SD		CS		S11		111		024		0160									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C
		STD	0000	0160	3100	2481	0031467	0000	14519								
064		UBS	0000	0160	31000	2481			14519								
		STL	0010	0150	3120	2496	0030025	0030	14528								
064		UBS	0010	0150	31200	2496			14528								
		STL	0020	0205	3170	2535	0026324	0058	14543								
064		UBS	0020	0205	31700	2535			14543								
		STL	0030	0120	3230	2585	0021225	0082	14515								
064		UBS	0030	0120	32300	2585			14515								
		STL	0050	-0062	3300	2654	0015000	0118	14445								
064		UBS	0050	-0062	33000	2654			14445								
		STL	0075	-0130	3336	2686	0012001	0152	14422								
064		UBS	0075	-0130	33360	2686			14422								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC.	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA-THER CODE	CLOUD CODES		NOCC STATION NUMBER						
CRUISE NO.	IO. NO.					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT				
318100		WE	75430N	075460W		260	59	06	01	144	1976	NE3	043	0500		00	U	X		01	4	1	0043					
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIRY BULB	WET BULB	VIS. CODE																
						01	50	00	500	117	016	003	9															

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	$\Sigma \Delta \theta$ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STL	0000	-0035	3150	2532	0026013	0000	14428								
144		UBS	0000	-0035	31500	2532			14428								
		STD	0010	-0110	3280	2640	0016394	0021	14413								
144		UBS	0010	-0110	32800	2640			14413								
		STL	0020	-0145	3310	2665	0015988	0030	14402								
144		UBS	0020	-0145	33100	2665			14402								
		STD	0030	-0145	3316	2670	0013520	0050	14405								
144		UBS	0030	-0145	33160	2670			14405								
		STC	0050	-0151	3320	2673	0013179	0077	14406								
144		UBS	0050	-0151	33200	2673			14406								
		STC	0075	-0151	3324	2670	0012855	0109	14411								
144		UBS	0075	-0151	33240	2676			14411								
		STC	0100	-0165	3326	2678	0012052	0141	14408								
144		UBS	0100	-0165	33260	2678			14408								
		STC	0125	-0150	3325	2681	0012430	0172	14417								
144		UBS	0125	-0150	33250	2681			14417								
		STD	0150	-0134	3337	2686	0011863	0203	14433								
144		UBS	0150	-0134	33370	2686			14433								
		UBS	0175	-0145	33460	2694			14433								
		STC	0200	-0168	3353	2700	0010505	0259	14427								
144		UBS	0200	-0168	33530	2700			14427								
144		UBS	0225	-0160	33600	2706			14433								
		STC	0250	-0148	3366	2710	0009541	0309	14447								
144		UBS	0250	-0148	33660	2710			14447								
		STC	0300	-0100	3367	2726	0008008	0353	14481								
144		UBS	0300	-0100	33670	2726			14481								
		STD	0400	-0017	3410	2744	0006264	0425	14540								
144		UBS	0400	-0017	34100	2744			14540								
		STC	0500	-0007	3426	2753	0005545	0484	14502								
144		UBS	0500	-0007	34260	2753			14502								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC.	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA-THER CODE	CLOUD CODES		NOCC STATION NUMBER						
CRUISE NO.	IO. NO.					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT				
318150		WE	75380N	075455W		260	59	06	01	155	1976	NE3	044	0549		00	U	X		01	4	1	0044					
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIRY BULB	WET BULB	VIS. CODE																
						01	50	00	500	115	044	027	9															

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	$\Sigma \Delta \theta$ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STC	0000	-0015	3180	2556	0024332	0000	14442								
155		UBS	0000	-0015	31800	2556			14442								
		STD	0010	-0053	3275	2634	0016960	0020	14439								
155		UBS	0010	-0053	32750	2634			14439								
		STD	0020	-0130	3297	2654	0015029	0036	14408								
155		UBS	0020	-0130	32970	2654			14408								
		STD	0030	-0141	3310	2665	0013990	0051	14406								
155		UBS	0030	-0141	33100	2665			14406								
		STL	0050	-0144	3318	2671	0013352	0076	14409								
155		UBS	0050	-0144	33180	2671			14409								
		STC	0075	-0148	3323	2670	0012946	0111	14412								
155		UBS	0075	-0148	33230	2670			14412								
		STC	0100	-0156	3326	2670	0012673	0143	14413								
155		UBS	0100	-0156	33260	2678			14413								
		STC	0125	-0147	3333	2664	0012144	0174	14422								
155		UBS	0125	-0147	33330	2664			14422								
		STC	0150	-0164	3340	2690	0011543	0204	14419								
155		UBS	0150	-0164	33400	2690			14419								
155		UBS	0175	-0175	33440	2693			14419								
		STD	0200	-0144	3354	2701	0010502	0259	14439								
155		UBS	0200	-0144	33540	2701			14439								
155		UBS	0225	-0140	33560	2705			14442								
		STC	0250	-0154	3364	2705	0009671	0309	14444								
155		UBS	0250	-0154	33640	2705			14444								
		STC	0300	-0130	3372	2715	0009009	0350	14462								
155		UBS	0300	-0130	33720	2715			14462								
		STC	0400	-0020	3412	2743	0006548	0434	14538								
155		UBS	0400	-0020	34120	2743			14538								
		STC	0500	-0003	3424	2752	0005721	0490	14564								
155		UBS	0500	-0003	34240	2752			14564								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN NO. 1/10	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			

51818U	WE		75120N	C70400W	200	50	06	01	10	1970	WE3	045	0603		00	U	X		02	3	7				0045
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

UT	50	17	S11	C50	C50	043	7		
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MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST CC
		STC	0000	0370	3285	2613	0010927	0000	14627								
100		UBS	0000	0370	3285	2613			14627								
		STC	0010	0360	3285	2614	0010842	0010	14624								
100		UBS	0010	0360	3285	2614			14624								
		STC	0020	0150	3295	2634	0010400	0030	14536								
100		UBS	0020	0150	3295	2634			14536								
		STC	0030	-0027	3315	2665	0014000	0051	14400								
100		UBS	0030	-0027	3315	2665			14400								
		STC	0050	-0128	3344	2692	0011403	0077	14420								
100		UBS	0050	-0128	3344	2692			14420								
		STC	0075	-0150	3353	2700	0010633	0104	14415								
100		UBS	0075	-0150	3353	2700			14415								
		STC	0100	-0153	3361	2700	0010003	0130	14419								
100		UBS	0100	-0153	3361	2700			14419								
		STC	0125	-0150	3366	2710	0009609	0153	14423								
100		UBS	0125	-0150	3366	2710			14423								
		STC	0150	-0144	3370	2713	0009307	0170	14433								
100		UBS	0150	-0144	3370	2713			14433								
		STC	0175	-0140	3381	2721			14454								
100		UBS	0175	-0140	3381	2721			14454								
		STC	0200	-0000	3350	2727	0008075	0222	14483								
100		UBS	0200	-0000	3350	2727			14483								
		STC	0225	-0005	3350	2732			14514								
100		UBS	0225	-0005	3350	2732			14514								
		STC	0250	0023	3407	2737	0007191	0200	14532								
100		UBS	0250	0023	3407	2737			14532								
		STC	0300	0018	3410	2744	0000473	0294	14539								
100		UBS	0300	0018	3410	2744			14539								
		STC	0400	-0023	3425	2753	0000549	0354	14538								
100		UBS	0400	-0023	3425	2753			14538								
		STC	0500	0009	3430	2750	0000344	0409	14570								
100		UBS	0500	0009	3430	2750			14570								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN NO. 1/10	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			

51818U	WE		75240N	C77500W	200	57	06	01	22	1970	WE3	046	0448		00	U	X		03	3	8				0046
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

UT	50	04	S11	1C9	038	002	7		
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MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST CC
222		UBS	0000	0400	3282	2602	0020023	0000	14604								
		STC	0010	0450	3282	2603	0019931	0020	14602								
222		UBS	0010	0450	3282	2603			14602								
		STC	0020	0380	3255	2620	0010279	0039	14636								
222		UBS	0020	0380	3255	2620			14636								
		STC	0030	-0105	3334	2683	0012258	0054	14426								
222		UBS	0030	-0105	3334	2683			14426								
		STC	0050	-0140	3347	2695	0011139	0077	14415								
222		UBS	0050	-0140	3347	2695			14415								
		STC	0075	-0123	3355	2702	0010430	0104	14409								
222		UBS	0075	-0123	3355	2702			14409								
		STC	0100	-0172	3357	2704	0010259	0130	14409								
222		UBS	0100	-0172	3357	2704			14409								
		STC	0125	-0173	3355	2705	0010070	0156	14413								
222		UBS	0125	-0173	3355	2705			14413								
		STC	0150	-0168	3364	2709	0009093	0180	14421								
222		UBS	0150	-0168	3364	2709			14421								
		STC	0175	-0168	3364	2709			14421								
222		UBS	0175	-0168	3364	2709			14421								
		STC	0200	-0130	3360	2721	0008556	0226	14449								
222		UBS	0200	-0130	3360	2721			14449								
		STC	0225	-0030	3350	2730			14502								
222		UBS	0225	-0030	3350	2730			14502								
		STC	0250	0020	3406	2735	0007304	0266	14535								
222		UBS	0250	0020	3406	2735			14535								
		STC	0300	0027	3415	2743	0000606	0300	14543								
222		UBS	0300	0027	3415	2743			14543								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDIC	MARSDEN SQUARE			STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOODC STATION NUMBER
CRUISE CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			

318180	WE	75350N	077140W	200	57	CE	C2	CC2	1970	WE3	047	0360	06	1	X	02	7	8	0047
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MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	COR.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDIC	MARSDEN SQUARE			STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOODC STATION NUMBER
CRUISE CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			

318180	WE	75430N	076210W	200	50	CE	C2	C10	1970	WE3	048	0320	00	0	X	03	7	0	0048
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MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	COR.

016	STC	0000	0480	3280	2598	0020370	0000	14073									
	UBS	0000	0480	3280	2598			14073									
	STC	0010	0470	3280	2599	0020276	0020	14070									
016	UBS	0010	0470	3280	2599			14070									
	STC	0020	0450	3280	2601	0020084	0040	14063									
016	UBS	0020	0450	3280	2601			14063									
	STC	0030	-0090	3340	2687	0011843	0050	14434									
016	UBS	0030	-0090	3340	2687			14434									
	STC	0050	-0142	3355	2701	0010525	0078	14415									
016	UBS	0050	-0142	3355	2701			14415									
	STC	0075	-0144	3362	2707	0009907	0104	14419									
016	UBS	0075	-0144	3362	2707			14419									
	STC	0100	-0126	3370	2713	0009388	0128	14433									
016	UBS	0100	-0126	3370	2713			14433									
	STC	0125	-0070	3382	2721	0008664	0151	14405									
016	UBS	0125	-0070	3382	2721			14405									
	STC	0150	-0008	3391	2725	0008258	0172	14499									
016	UBS	0150	-0008	3391	2725			14499									
016	UBS	0175	0062	34060	2734			14537									
	STC	0200	0108	3410	2734	0007494	0211	14502									
016	UBS	0200	0108	3410	2734			14502									
016	UBS	0225	0065	34150	2741			14548									
	STC	0250	0098	3422	2744	0006524	0246	14508									
016	UBS	0250	0098	3422	2744			14508									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
313180		WE	75517N	075404W		200	55	02	033	1970	WE3	049	0333		00	0	X		02	7	8	0049
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE													
		01	50	13	510	124	020	006	7													
MESSENGER TIME OF HR./10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _T	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S/C					
		STC	0000	0370	3284	2612	0019000	0000	14027													
033		UBS	0000	0370	32840	2612			14027													
		STL	0010	0340	3285	2616	0010070	0010	14610													
033		UBS	0010	0340	32850	2616			14610													
		STL	0020	0320	3290	2622	0010122	0037	14609													
033		UBS	0020	0320	32900	2622			14609													
		STL	0030	-0117	3313	2607	0010330	0053	14410													
033		UBS	0030	-0117	33130	2607			14410													
		STL	0050	-0140	3328	2675	0012603	0079	14412													
033		UBS	0050	-0140	33280	2675			14412													
		STL	0075	-0148	3343	2692	0011410	0109	14415													
033		UBS	0075	-0148	33430	2692			14415													
		STL	0100	-0148	3350	2704	0010248	0136	14421													
033		UBS	0100	-0148	33500	2704			14421													
		STL	0125	-0162	3365	2710	0009047	0101	14419													
033		UBS	0125	-0162	33650	2710			14419													
		STC	0150	-0128	3372	2715	0009200	0103	14441													
033		UBS	0150	-0128	33720	2715			14441													
033		UBS	0175	-0100	33830	2723			14457													
		STC	0200	-0030	3397	2731	0007070	0227	14496													
033		UBS	0200	-0030	33970	2731			14496													
033		UBS	0225	0037	34050	2734			14534													
		STL	0230	0005	3411	2737	0007139	0284	14552													
033		UBS	0230	0005	34110	2737			14552													
		STL	0300	0014	3420	2747	0005140	0297	14536													
033		UBS	0300	0014	34200	2747			14536													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
313180		WE	75518N	074400W		200	54	02	033	1970	WE3	030	0304		22	2	2		02	6	8	0050
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE													
		01	50	22	513	125	018	011	7													
MESSENGER TIME OF HR./10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _T	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S/C					
		STC	0000	0290	3276	2604	0019790	0000	14034													
033		UBS	0000	0290	32760	2604			14034													
		STC	0010	0350	3280	2607	0019495	0019	14030													
033		UBS	0010	0350	32800	2607			14030													
		STL	0020	-0070	3322	2672	0013296	0036	14439													
033		UBS	0020	-0070	33220	2672			14439													
		STL	0030	-0120	3333	2683	0012203	0048	14419													
033		UBS	0030	-0120	33330	2683			14419													
		STC	0050	-0148	3350	2697	0010805	0072	14411													
033		UBS	0050	-0148	33500	2697			14411													
		STL	0075	-0150	3358	2704	0010254	0098	14412													
033		UBS	0075	-0150	33580	2704			14412													
		STL	0100	-0130	3369	2712	0009459	0123	14431													
033		UBS	0100	-0130	33690	2712			14431													
		STL	0125	-0105	3380	2720	0008688	0145	14448													
033		UBS	0125	-0105	33800	2720			14448													
		STL	0150	-0014	3389	2724	0008382	0107	14496													
033		UBS	0150	-0014	33890	2724			14496													
033		UBS	0175	0037	33990	2729			14525													
		STL	0200	0024	3403	2733	0007502	0206	14524													
033		UBS	0200	0024	34030	2733			14524													
033		UBS	0225	0080	34130	2730			14554													
		STL	0250	0086	3417	2741	0008021	0242	14582													
033		UBS	0250	0086	34170	2741			14582													
		STC	0300	0028	3419	2746	0006300	0275	14543													
033		UBS	0300	0028	34190	2746			14543													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
3131	0U	WE	70075N	073450W	260	03	06	02	075	1970	WE3	051	0420		12	2	3	02	6	8	0051		

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C C
		STL	0000	0340	3255	2552	0020929	0000	14010								
075		UBS	0000	0340	3255	2552	0020929	0000	14010								
		STC	0010	0335	3260	2556	0020500	0020	14010								
075		UBS	0010	0335	3260	2556	0020500	0020	14010								
		STL	0020	0200	3280	2623	0017943	0039	14520								
075		UBS	0020	0200	3280	2623	0017943	0039	14520								
		STC	0030	-0080	3325	2675	0015020	0055	14437								
075		UBS	0030	-0080	3325	2675	0015020	0055	14437								
		STC	0050	-0140	3352	2659	0010731	0079	14412								
075		UBS	0050	-0140	3352	2659	0010731	0079	14412								
		STC	0075	-0159	3362	2707	0009918	0105	14412								
075		UBS	0075	-0159	3362	2707	0009918	0105	14412								
		STC	0100	-0137	3359	2712	0009430	0129	14428								
075		UBS	0100	-0137	3359	2712	0009430	0129	14428								
		STC	0125	-0113	3378	2715	0006811	0152	14444								
075		UBS	0125	-0113	3378	2715	0006811	0152	14444								
		STC	0150	-0051	3389	2726	0006204	0173	14479								
075		UBS	0150	-0051	3389	2726	0006204	0173	14479								
		STC	0200	0000	33970	2730			14520								
075		UBS	0200	0000	33970	2730			14520								
		STC	0225	0013	34030	2734	0007441	0212	14510								
075		UBS	0225	0013	34030	2734	0007441	0212	14510								
		STC	0250	0042	34110	2739	0007000	0248	14537								
075		UBS	0250	0042	34110	2739	0007000	0248	14537								
		STC	0300	0014	34200	2747	0000146	0281	14538								
075		UBS	0300	0014	34200	2747	0000146	0281	14538								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
3131	0U	WE	70145N	072470W	260	02	06	02	107	1970	WE3	052	0454		10	2	2	02	6	8	0052		

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C C
		STL	0000	0340	3285	2616	0018604	0000	14014								
107		UBS	0000	0340	3285	2616	0018604	0000	14014								
		STC	0010	0335	3300	2628	0017492	0018	14010								
107		UBS	0010	0335	3300	2628	0017492	0018	14010								
		STC	0020	0300	3310	2639	0016440	0035	14604								
107		UBS	0020	0300	3310	2639	0016440	0035	14604								
		STC	0030	-0090	3340	2687	0011843	0049	14434								
107		UBS	0030	-0090	3340	2687	0011843	0049	14434								
		STC	0050	-0153	3357	2703	0010342	0071	14410								
107		UBS	0050	-0153	3357	2703	0010342	0071	14410								
		STC	0075	-0173	3358	2704	0010195	0097	14405								
107		UBS	0075	-0173	3358	2704	0010195	0097	14405								
		STC	0100	-0147	3369	2713	0009400	0121	14423								
107		UBS	0100	-0147	3369	2713	0009400	0121	14423								
		STC	0125	-0112	3373	2715	0009199	0144	14444								
107		UBS	0125	-0112	3373	2715	0009199	0144	14444								
		STC	0150	-0012	3388	2723	0008454	0166	14490								
107		UBS	0150	-0012	3388	2723	0008454	0166	14490								
		STC	0200	0050	3405	2731	0007754	0207	14554								
107		UBS	0200	0050	3405	2731	0007754	0207	14554								
		STC	0225	0062	34100	2737			14540								
107		UBS	0225	0062	34100	2737			14540								
		STC	0250	0071	3412	2738	0007107	0244	14554								
107		UBS	0250	0071	3412	2738	0007107	0244	14554								
		STC	0300	0011	3420	2748	0000135	0277	14537								
107		UBS	0300	0011	3420	2748	0000135	0277	14537								
		STC	0400	-0014	3433	2759	0004955	0333	14544								
107		UBS	0400	-0014	3433	2759	0004955	0333	14544								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
313180	WE	7021UN	07200W	200	02	02	114	1570	WE3	053		0007			11	12		02			6	8	0053

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
UT	SO	11	S17	125	012	006	7		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C
		STD	0000	0308	3288	2010	0018002	0000	14020								
114		UBS	0000	0308	32880	2010			14020								
		STD	0010	0300	3290	2018	0018471	0018	14025								
114		UBS	0010	0300	32900	2018			14025								
		STD	0020	-0080	3300	2054	0015015	0035	14441								
114		UBS	0020	-0080	33000	2054			14441								
		STD	0030	-0120	3320	2077	0012607	0049	14415								
114		UBS	0030	-0120	33200	2077			14415								
		STD	0050	-0141	3344	2092	0011505	0073	14414								
114		UBS	0050	-0141	33440	2092			14414								
		STD	0075	-0150	3353	2700	0010853	0100	14415								
114		UBS	0075	-0150	33530	2700			14415								
		STD	0100	-0149	3361	2700	0010013	0120	14421								
114		UBS	0100	-0149	33610	2700			14421								
		STD	0125	-0135	3368	2712	0009497	0151	14433								
114		UBS	0125	-0135	33680	2712			14433								
		STD	0150	-0105	3378	2715	0006079	0174	14452								
114		UBS	0150	-0105	33780	2715			14452								
		STD	0175	-0080	33870	2724			14479								
114		UBS	0175	-0080	33870	2724			14479								
		STD	0200	0004	3400	2732	0007025	0215	14514								
114		UBS	0200	0004	34000	2732			14514								
		STD	0225	0005	34060	2733			14547								
114		UBS	0225	0005	34060	2733			14547								
		STD	0250	0075	3412	2738	0007120	0252	14550								
114		UBS	0250	0075	34120	2738			14550								
		STD	0300	0062	3422	2740	0006294	0285	14500								
114		UBS	0300	0062	34220	2740			14500								
		STD	0400	0040	3431	2755	0005468	0344	14508								
114		UBS	0400	0040	34310	2755			14508								
		STD	0500	0035	3426	2759	0005058	0397	14583								
114		UBS	0500	0035	34260	2759			14583								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
310180	WE	7020UN	07050W	200	00	02	135	1570	WE3	054		0092			07	02		02			6	8	0054

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
LT	SO	07	SC2	135	011	007	7		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C C
		STD	0000	0105	3125	2506	0029145	0000	14489								
135		UBS	0000	0105	31250	2506			14489								
		STD	0010	0055	3150	2520	0027182	0028	14489								
135		UBS	0010	0055	31500	2520			14489								
		STD	0020	0005	3280	2635	0016817	0050	14488								
135		UBS	0020	0005	32800	2635			14488								
		STD	0030	-0080	3300	2655	0014945	0066	14433								
135		UBS	0030	-0080	33000	2655			14433								
		STD	0050	-0140	3343	2685	0011681	0092	14414								
135		UBS	0050	-0140	33400	2685			14414								
		STD	0075	-0164	3354	2701	0010522	0120	14409								
135		UBS	0075	-0164	33540	2701			14409								
		STD	0100	-0170	3360	2700	0010034	0146	14411								
135		UBS	0100	-0170	33600	2700			14411								
		STD	0125	-0137	3384	2708	0009803	0170	14431								
135		UBS	0125	-0137	33840	2708			14431								
		STD	0150	-0100	3370	2712	0009432	0195	14451								
135		UBS	0150	-0100	33700	2712			14451								
		STD	0175	-0050	33800	2716			14482								
135		UBS	0175	-0050	33800	2716			14482								
		STD	0200	0017	3351	2724	0008380	0239	14519								
135		UBS	0200	0017	33510	2724			14519								
		STD	0225	0060	3358	2727			14543								
135		UBS	0225	0060	33580	2727			14543								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MARS DEN INDIC	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCD STATION NUMBER
CRUISE CODE	ID. NO.		'/10	'/10		10'	1'	MO	DAY	HR./10		CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
		318180	WE	7005UN	070420W	260	0	08	04	172	1970	WE3	055	0549	00	0	X	02	7	8	0055

WATER		WIND		BARO-METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
07	50	21	S11	175	CCB	-006	7		

MESSAGE TIME HR. /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S.C.C.
		STD	0000	0100	3060	2454	0034070	0000	14478								
172		UBS	0000	0100	30600	2454			14478								
		STD	0010	0135	3220	2580	0022079	0028	14517								
172		UBS	0010	0135	32200	2580			14517								
		STD	0020	0050	3325	2669	0013001	0045	14495								
172		UBS	0020	0050	33250	2669			14495								
		STD	0030	-0055	3340	2688	0011825	0058	14432								
172		UBS	0030	-0055	33400	2688			14432								
		STD	0050	-0154	3354	2701	0010568	0061	14409								
172		UBS	0050	-0154	33540	2701			14409								
		STD	0075	-0170	3360	2706	0010051	0106	14407								
172		UBS	0075	-0170	33600	2706			14407								
		STD	0100	-0120	3367	2710	0009843	0131	14435								
172		UBS	0100	-0120	33670	2710			14435								
		STD	0125	-0080	3375	2715	0009157	0154	14459								
172		UBS	0125	-0080	33750	2715			14459								
		STD	0150	-0050	3386	2723	0008438	0176	14479								
172		UBS	0150	-0050	33860	2723			14479								
		STD	0200	0053	3400	2725	0007905	0217	14530								
172		UBS	0200	0053	34000	2725			14530								
		STD	0225	0086	34050	2734			14557								
172		UBS	0225	0086	34050	2734			14557								
		STD	0250	0098	3416	2735	0006973	0255	14507								
172		UBS	0250	0098	34160	2735			14507								
		STD	0300	0086	3425	2747	0006235	0288	14572								
172		UBS	0300	0086	34250	2747			14572								
		STD	0400	0117	3441	2758	0005247	0345	14604								
172		UBS	0400	0117	34410	2758			14604								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MARS DEN INDIC	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCD STATION NUMBER
CRUISE CODE	ID. NO.		'/10	'/10		10'	1'	MO	DAY	HR./10		CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
		318180	WE	75573N	071330W	260	0	08	04	196	1970	WE3	056	0412	00	0	X	02	7	8	0056

WATER		WIND		BARO-METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
07	50	03	S13	174	C10	007	7		

MESSAGE TIME HR. /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S.C.C.
		STD	0000	0270	3200	2554	0024510	0000	14572								
196		UBS	0000	0270	32000	2554			14572								
		STD	0010	0250	3230	2580	0022100	0023	14509								
196		UBS	0010	0250	32300	2580			14509								
		STD	0020	0200	3280	2623	0017943	0043	14564								
196		UBS	0020	0200	32800	2623			14564								
		STD	0030	-0050	3330	2678	0012700	0056	14451								
196		UBS	0030	-0050	33300	2678			14451								
		STD	0050	-0143	3351	2658	0010822	0082	14414								
196		UBS	0050	-0143	33510	2658			14414								
		STD	0075	-0155	3362	2707	0009937	0108	14414								
196		UBS	0075	-0155	33620	2707			14414								
		STD	0100	-0105	3369	2711	0009539	0132	14443								
196		UBS	0100	-0105	33690	2711			14443								
		STD	0125	-0104	3381	2721	0008610	0155	14449								
196		UBS	0125	-0104	33810	2721			14449								
		STD	0150	-0030	3350	2725	0008222	0176	14489								
196		UBS	0150	-0030	33500	2725			14489								
		STD	0200	0050	3400	2731			14517								
196		UBS	0200	0050	34000	2731			14517								
		STD	0225	0050	34050	2733	0007507	0215	14530								
196		UBS	0225	0050	34050	2733			14530								
		STD	0250	0075	3418	2742	0006079	0251	14557								
196		UBS	0250	0075	34180	2742			14557								
		STD	0300	0071	3424	2747	0006194	0283	14504								
196		UBS	0300	0071	34240	2747			14504								

REFERENCE CITY CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
					10'	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}			$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SEC	
31818U	WL	75300N	072250W	266	52	04	219	1970	WE3	057	J394		00	0	X		01	0	17	0057
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)		DRY BULB	WET BULB	VIS. CODE								
				01	50	35	505	155	021	011	7									

REFERENCE CITY CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
					10'	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}			$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SEC	
31818U	WE	75365N	073430W	266	53	04	229	1970	WE3	058	0402		00	0	X		03	6	8	0058
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)		DRY BULB	WET BULB	VIS. CODE								
				01	50	36	512	172	012	005	7									

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
						10"	1"	MO	OAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER SEA		TYPE	AMT
318180	WE		75260N	074565W	260	54	06	C5	021	1970	HE3	059	0457		00	0	0	02	6	7	0059		
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE										
						DT	SO	CS	S12	154	C12	005	7										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g - dl/l}$	TOTAL-P $\mu\text{g - dl/l}$	NO ₂ -N $\mu\text{g - dl/l}$	NO ₃ -N $\mu\text{g - dl/l}$	SiO ₄ -Si $\mu\text{g - dl/l}$	pH	LOC
		STD	0000	0330	3050	2462	0033322	0000	14503								
	021	UBS	0000	0330	30500	2462			14583								
		STD	0010	0320	3260	2608	0019404	0020	14632								
	021	UBS	0010	0320	32600	2608			14632								
		STD	0020	-0045	3344	2685	0011700	0041	14454								
	021	UBS	0020	-0045	33440	2685			14454								
		STD	0030	-0145	3356	2702	0010440	0053	14410								
	021	UBS	0030	-0145	33560	2702			14410								
		STD	0050	-0172	3358	2704	0010213	0073	14401								
	021	UBS	0050	-0172	33580	2704			14401								
		STD	0075	-0173	3355	2705	0010114	0099	14405								
	021	UBS	0075	-0173	33550	2705			14405								
		STD	0100	-0154	3364	2705	0009708	0123	14419								
	021	UBS	0100	-0154	33640	2705			14419								
		STD	0125	-0140	3371	2714	0009252	0147	14431								
	021	UBS	0125	-0140	33710	2714			14431								
		STD	0150	-0042	3386	2723	0008478	0169	14483								
	021	UBS	0150	-0042	33860	2723			14483								
		STD	0200	0022	33550	2726			14522								
	021	UBS	0200	0022	33550	2726	0007510	0209	14543								
		STD	0225	0065	3406	2733			14543								
	021	UBS	0225	0065	34060	2733			14564								
		STD	0250	0137	3421	2741	0006874	0245	14585								
	021	UBS	0250	0137	34210	2741			14585								
		STD	0300	0088	3426	2748	0006163	0278	14572								
	021	UBS	0300	0088	34260	2748			14572								
		STD	0400	0012	3428	2754	0005520	0336	14555								
	021	UBS	0400	0012	34280	2754			14555								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
						10"	1"	MO	OAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER SEA		TYPE	AMT
318180	WE		75130N	076150W	260	56	06	C5	053	1970	HE3	060	0500		34	1	2	02	6	8	0060		
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE										
						DT	SO	CS	SG7	142	U13	-006	7										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g - dl/l}$	TOTAL-P $\mu\text{g - dl/l}$	NO ₂ -N $\mu\text{g - dl/l}$	NO ₃ -N $\mu\text{g - dl/l}$	SiO ₄ -Si $\mu\text{g - dl/l}$	pH	LOC
		STD	0000	0465	3280	2555	0020222	0000	14606								
	053	UBS	0000	0465	32800	2555			14606								
		STD	0010	0465	3280	2555	0020230	0020	14668								
	053	UBS	0010	0465	32800	2555			14668								
		STD	0020	0360	3290	2618	0018477	0039	14027								
	053	UBS	0020	0360	32900	2618			14027								
		STD	0030	-0050	3330	2678	0012760	0055	14451								
	053	UBS	0030	-0050	33300	2678			14451								
		STD	0050	-0151	3356	2704	0010270	0078	14411								
	053	UBS	0050	-0151	33560	2704			14411								
		STD	0075	-0145	3367	2711	0009578	0103	14419								
	053	UBS	0075	-0145	33670	2711			14419								
		STD	0100	-0122	3374	2716	0009101	0126	14435								
	053	UBS	0100	-0122	33740	2716			14435								
		STD	0125	-0116	3375	2720	0008719	0148	14442								
	053	UBS	0125	-0116	33750	2720			14442								
		STD	0150	-0050	3386	2723	0008399	0170	14475								
	053	UBS	0150	-0050	33860	2723			14475								
		STD	0175	-0020	33560	2730			14498								
	053	UBS	0175	-0020	33560	2730			14523								
		STD	0200	0023	3402	2732	0007573	0210	14523								
	053	UBS	0200	0023	34020	2732			14533								
		STD	0225	0034	34090	2738			14546								
	053	UBS	0225	0034	34090	2738			14546								
		STD	0250	0052	3413	2740	0006905	0240	14549								
	053	UBS	0250	0052	34130	2740			14549								
		STD	0300	0037	3422	2746	0006139	0278	14549								
	053	UBS	0300	0037	34220	2746			14549								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 'SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA				
318180		WE	75040N	072590W	200	50	08	05	070	1970	WE3	061	0311			34	1	2	02	6	8	0061
		WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		DT	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS

MESSAGE TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMALT-210?	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	S.C.C.
		STL	0000	0444	3265	2606	0019633	0000	14658								
070		UBS	0000	0444	32650	2606			14658								
		STC	0010	0442	3250	2610	0019243	0019	14000								
070		UBS	0010	0442	32500	2610			14000								
		STC	0020	-0025	3325	2673	0013244	0035	14400								
070		UBS	0020	-0025	33250	2673			14400								
		STC	0030	-0112	3344	2691	0011471	0040	14424								
070		UBS	0030	-0112	33440	2691			14424								
		STC	0050	-0155	3357	2703	0010333	0069	14409								
070		UBS	0050	-0155	33570	2703			14409								
		STC	0075	-0172	3365	2710	0009003	0094	14400								
070		UBS	0075	-0172	33650	2710			14400								
		STC	0100	-0153	3368	2712	0009401	0118	14420								
070		UBS	0100	-0153	33680	2712			14420								
		STC	0125	-0152	3375	2718	0006914	0141	14420								
070		UBS	0125	-0152	33750	2718			14420								
		STC	0150	-0167	3385	2724	0008207	0163	14452								
070		UBS	0150	-0167	33850	2724			14452								
		STC	0200	-0016	33980	2731			14500								
070		UBS	0200	0028	3409	2738	0007072	0201	14520								
		STC	0225	0028	34090	2738			14520								
070		UBS	0225	0070	34140	2739			14550								
		STC	0250	0050	3415	2741	0006742	0236	14345								
070		UBS	0250	0050	34150	2741			14345								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 'SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA				
310180		WE	74540N	077430W	260	47	08	05	050	1970	WE3	062	0280			11	1	2	02	6	8	0062
		WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		DT	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS	SD	CS

MESSAGE TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMALT-210?	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	S.C.C.
		STC	0000	0430	3260	2603	0019869	0000	14652								
090		UBS	0000	0430	32600	2603			14652								
		STC	0010	0400	3260	2606	0019595	0019	14041								
090		UBS	0010	0400	32600	2606			14041								
		STC	0020	-0005	3310	2660	0014476	0036	14468								
090		UBS	0020	-0005	33100	2660			14468								
		STC	0030	-0095	3330	2680	0012593	0050	14430								
090		UBS	0030	-0095	33300	2680			14430								
		STC	0050	-0139	3348	2696	0011007	0074	14415								
090		UBS	0050	-0139	33480	2696			14415								
		STC	0075	-0155	3356	2702	0010398	0100	14413								
090		UBS	0075	-0155	33560	2702			14413								
		STC	0100	-0154	3360	2706	0010075	0126	14418								
090		UBS	0100	-0154	33600	2706			14418								
		STC	0125	-0148	3367	2711	0009537	0150	14426								
090		UBS	0125	-0148	33670	2711			14426								
		STC	0150	-0122	3372	2714	0009227	0174	14443								
090		UBS	0150	-0122	33720	2714			14443								
		STC	0175	-0076	33840	2722			14473								
090		UBS	0175	-0076	33840	2722			14473								
		STC	0200	-0012	3394	2728	0007994	0217	14500								
090		UBS	0200	-0012	33940	2728			14500								
		STC	0225	0026	34050	2735			14529								
090		UBS	0225	0026	34050	2735			14529								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT PER				SEA
318180	WE		74447N	07855W	260	48	08	05	108	1970	WE3	003	0420		10	1	2		02	618	0003
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIL.	SPEED OR FORCE	BARO-METER (mb)		DRY BULB	WET BULB	VIL. CODE											
		DT	SD	11	505	154		021	012	7											

MESSAGING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^S	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
		STO	0000	0310	3285	2603	0019914	0000	14598								
108		OBS	0000	0310	3285	2603			14598								
		STO	0010	0255	3270	2608	0019420	0019	14594								
108		OBS	0010	0255	3270	2608			14594								
		STO	0020	0230	3250	2625	0017402	0038	14570								
108		OBS	0020	0230	3250	2625			14570								
		STO	0030	-0035	3325	2673	0013204	0053	14457								
108		OBS	0030	-0035	3325	2673			14457								
		STO	0050	-0127	3335	2685	0012099	0078	14419								
108		OBS	0050	-0127	3335	2685			14419								
		STO	0075	-0130	3347	2695	0011133	0107	14420								
108		OBS	0075	-0138	3347	2695			14420								
		STO	0100	-0150	3355	2701	0010464	0134	14420								
108		OBS	0100	-0150	3355	2701			14420								
		STO	0125	-0130	3361	2706	0010049	0160	14434								
108		OBS	0125	-0130	3361	2706			14434								
		STO	0150	-0127	3369	2712	0009441	0184	14441								
108		OBS	0150	-0127	3369	2712			14441								
		STO	0175	-0127	3375	2717			14446								
108		OBS	0175	-0127	3375	2717			14446								
		STO	0200	-0084	3386	2724	0008277	0229	14471								
108		OBS	0200	-0084	3386	2724			14471								
		STO	0225	-0050	3390	2734			14493								
108		OBS	0225	-0050	3390	2734			14493								
		STO	0250	0030	3406	2735	0007304	0268	14535								
108		OBS	0250	0030	3406	2735			14535								
		STO	0300	0065	3418	2743	0006611	0302	14561								
108		OBS	0300	0065	3418	2743			14561								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT PER				SEA
318180	WE		74500N	07839W	260	48	08	05	125	1970	WE3	004	0500		07	1	2		02	618	0064
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIL.	SPEED OR FORCE	BARO-METER (mb)		DRY BULB	WET BULB	VIL. CODE											
		DT	SD	20	506	142		025	002	7											

MESSAGING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^S	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
		STO	0000	0380	3220	2560	0023920	0000	14622								
125		OBS	0000	0380	3220	2560			14622								
		STO	0010	0300	3230	2576	0022491	0023	14591								
125		OBS	0010	0300	3230	2576			14591								
		STO	0020	-0030	3315	2665	0013986	0041	14457								
125		OBS	0020	-0030	3315	2665			14457								
		STO	0030	-0134	3340	2685	0011704	0054	14413								
125		OBS	0030	-0134	3340	2685			14413								
		STO	0050	-0172	3352	2700	0010874	0076	14400								
125		OBS	0050	-0172	3352	2700			14400								
		STO	0075	-0172	3355	2702	0010430	0103	14405								
125		OBS	0075	-0172	3355	2702			14405								
		STO	0100	-0175	3366	2711	0009554	0128	14409								
125		OBS	0100	-0175	3366	2711			14409								
		STO	0125	-0130	3370	2713	0009364	0151	14435								
125		OBS	0125	-0130	3370	2713			14435								
		STO	0150	-0060	3382	2720	0008695	0174	14474								
125		OBS	0150	-0060	3382	2720			14474								
		STO	0175	0000	3353	2726			14507								
125		OBS	0175	0000	3353	2726			14507								
		STO	0200	0042	3400	2730	0007836	0215	14531								
125		OBS	0200	0042	3400	2730			14531								
		STO	0225	0052	3414	2738			14560								
125		OBS	0225	0052	3414	2738			14560								
		STO	0250	0136	3420	2746	0006938	0252	14585								
125		OBS	0250	0136	3420	2746			14585								
		STO	0300	0175	3433	2748	0006269	0285	14612								
125		OBS	0300	0175	3433	2748			14612								
		STO	0400	0188	3444	2757	0005418	0344	14627								
125		OBS	0400	0188	3444	2757			14627								
		STO	0500	0145	3453	2766	0004590	0394	14635								
125		OBS	0500	0145	3453	2766			14635								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	ORBL NO.	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	

310150	NE		74150N	070300W		200	48	00	00	140	1970	NE3	000	0878		12	12		02	08		0065
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB															
		LT	SU	CS	SO2	125	025	002	7													

MESSNGR TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	SC
		STD	0000	0400	3260	2590	0021092	0000	14636								
145		UBS	0000	0400	32600	2590			14630								
		STD	0010	0300	3270	2600	0020150	0020	14631								
145		UBS	0010	0300	32700	2600			14631								
		STD	0020	0140	3300	2644	0010022	0030	14632								
145		UBS	0020	0140	33000	2644			14632								
		STD	0030	-0080	3330	2675	0012049	0053	14637								
145		UBS	0030	-0080	33300	2675			14637								
		STD	0050	-0135	3350	2697	0010923	0075	14618								
145		UBS	0050	-0135	33500	2697			14618								
		STD	0075	-0150	3358	2704	0010254	0103	14616								
145		UBS	0075	-0150	33580	2704			14616								
		STD	0100	-0160	3367	2711	0009522	0127	14617								
145		UBS	0100	-0160	33670	2711			14617								
		STD	0125	-0162	3370	2714	0009271	0151	14620								
145		UBS	0125	-0162	33700	2714			14620								
		STD	0150	-0150	3372	2715	0009133	0174	14630								
145		UBS	0150	-0150	33720	2715			14630								
145		UBS	0175	-0085	33800	2720			14630								
		STD	0200	-0002	3394	2727	0000045	0217	14610								
145		UBS	0200	-0002	33940	2727			14610								
145		UBS	0225	0025	34050	2735			14627								
		STD	0250	0060	3414	2740	0006884	0254	14650								
145		UBS	0250	0060	34140	2740			14650								
		STD	0300	0084	3425	2747	0006205	0267	14670								
145		UBS	0300	0084	34250	2747			14670								
		STD	0400	0113	3440	2758	0005297	0344	14602								
145		UBS	0400	0113	34400	2758			14602								
		STD	0500	0124	3446	2762	0004947	0370	14624								
145		UBS	0500	0124	34460	2762			14624								
		STD	0600	0125	3455	2768	0004381	0442	14647								
145		UBS	0600	0125	34550	2768			14647								
		STD	0700	0106	3455	2770	0004170	0485	14651								
145		UBS	0700	0106	34550	2770			14651								

REFERENCE CITY CODE	SHIP NO.	LATITUDE 1/10	LONGITUDE 1/10	MARSJOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
					10"	1"	MO		DAY	HR./1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TPR
31318U	WE	74030N	079070W	20C	49	08	05	171	1970	WE	3	006	0823	UU	U	X		02	6	8	0066
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				01	50	19	517	115	023	015	7	SPECIAL OBSERVATIONS									

MESSNGR TIME HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	CO ₂
		STD	0000	0300	3270	2607	0019401	0000	14595								
171		UBS	0000	0300	32700	2607			14595								
		STD	0010	0080	2300	2647	0015000	0017	14503								
171		UBS	0010	0080	23000	2647			14503								
		STD	0020	-0040	3330	2677	0012800	0031	14454								
171		UBS	0020	-0040	33300	2677			14454								
		STD	0030	-0130	3347	2694	0011180	0043	14416								
171		UBS	0030	-0130	33470	2694			14416								
		STD	0050	-0148	3356	2702	0010433	0065	14412								
171		UBS	0050	-0148	33560	2702			14412								
		STD	0075	-0150	3359	2705	0010103	0091	14413								
171		UBS	0075	-0150	33590	2705			14413								
		STD	0100	-0167	3364	2709	0009720	0116	14413								
171		UBS	0100	-0167	33640	2709			14413								
		STD	0125	-0166	3372	2716	0009107	0139	14419								
171		UBS	0125	-0166	33720	2716			14419								
		STD	0150	-0090	3382	2721	0008574	0161	14400								
171		UBS	0150	-0090	33820	2721			14400								
		STD	0175	0004	33900	2724			14508								
171		UBS	0175	0004	33900	2724			14508								
		STD	0200	0020	3400	2731	0007715	0202	14521								
171		UBS	0200	0020	34000	2731			14521								
		STD	0225	0046	34090	2737			14538								
171		UBS	0225	0046	34090	2737			14538								
		STD	0250	0070	3416	2741	0006792	0238	14554								
171		UBS	0250	0070	34160	2741			14554								
		STD	0300	0086	3424	2747	0006296	0271	14571								
171		UBS	0300	0086	34240	2747			14571								
		STD	0400	0094	3435	2755	0005536	0330	14593								
171		UBS	0400	0094	34350	2755			14593								
		STD	0500	0126	3445	2761	0005039	0383	14625								
171		UBS	0500	0126	34450	2761			14625								
		STD	0600	0129	3450	2765	0004710	0432	14644								
171		UBS	0600	0129	34500	2765			14644								
		STD	0700	0107	3451	2767	0004481	0478	14651								
171		UBS	0700	0107	34510	2767			14651								

REFERENCE		SHIP CODE	LATITUDE ° 10'	LONGITUDE ° 10'	OBS. INSTR.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
310180	WE		7350N	07750W		200	37	08	05	154	1970	WEJ	007	0009		UU	0	X		02	0	8	0067	
		WATER		WIND		BARO-METER		AIR TEMP. °C				VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		LT	SU	15	S17	115	C23	006	7															

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	± Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	χ C
194		STD	0000	0385	3245	2560	0022000	0000	14026								
		OBS	0000	0385	32450	2560			14028								
		STD	0010	0380	3246	2581	0021900	0022	14020								
194		OBS	0010	0380	32460	2581			14020								
		STD	0020	0250	3265	2624	0017957	0042	14570								
194		OBS	0020	0250	32650	2624			14570								
		STD	0030	0070	3315	2660	0014470	0058	14504								
194		OBS	0030	0070	33150	2660			14504								
		STD	0050	-0135	3347	2695	0011150	0083	14417								
194		OBS	0050	-0135	33470	2695			14417								
		STD	0075	-0159	3357	2703	0010300	0110	14411								
194		OBS	0075	-0159	33570	2703			14411								
		STD	0100	-0154	3361	2707	0009905	0136	14416								
194		OBS	0100	-0154	33610	2707			14416								
		STD	0125	-0169	3366	2711	0009557	0160	14410								
194		OBS	0125	-0169	33660	2711			14410								
		STD	0150	-0120	3375	2717	0009003	0183	14445								
194		OBS	0150	-0120	33750	2717			14445								
194		OBS	0175	-0070	33850	2723			14474								
		STD	0200	-0000	3392	2726	0000100	0226	14507								
194		OBS	0200	-0000	33920	2726			14507								
194		OBS	0225	0045	34010	2730			14537								
		STD	0250	0062	3406	2734	0007497	0265	14549								
194		OBS	0250	0062	34060	2734			14549								
		STD	0300	0080	3415	2740	0006950	0301	14567								
194		OBS	0300	0080	34150	2740			14567								
		STD	0400	0120	3433	2752	0005070	0365	14604								
194		OBS	0400	0120	34330	2752			14604								
		STD	0500	0135	3444	2759	0005185	0421	14629								
194		OBS	0500	0135	34440	2759			14629								
		STD	0600	0140	3450	2764	0004799	0471	14649								
194		OBS	0600	0140	34500	2764			14649								
		STD	0700	0117	3452	2767	0004490	0517	14655								
194		OBS	0700	0117	34520	2767			14655								

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	MOYER INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGR	PER	SEA		TYPE	AMT	
318180	WE		74099N	077218W		260	47	08	05	214	1970	WES	068	0786		UU	0	X		02	7	8	0068

WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (%)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
					C27	U14	7		

MESSNGR TIME HR /10	CAS# NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -S $\mu\text{g} - \text{at/l}$	PH	S C C
		STD	0000	0370	3260	2553	0020620	0000	14024								
214		OBS	0000	0370	32600	2553			14024								
		STD	0010	0340	3270	2604	0019802	0020	14014								
214		OBS	0010	0340	32700	2604			14014								
		STD	0020	0100	3300	2646	0015734	0038	14514								
214		OBS	0020	0100	33000	2646			14514								
		STD	0030	-0115	3340	2688	0011700	0051	14422								
214		OBS	0030	-0115	33400	2688			14422								
		STD	0050	-0167	3350	2703	0010370	0074	14403								
214		OBS	0050	-0167	33500	2703			14403								
		STD	0075	-0150	3365	2710	0009713	0099	14417								
214		OBS	0075	-0150	33650	2710			14417								
		STD	0100	-0154	3372	2715	0009154	0122	14420								
214		OBS	0100	-0154	33720	2715			14420								
		STD	0125	-0111	3379	2720	0008740	0145	14445								
214		OBS	0125	-0111	33790	2720			14445								
		STD	0150	-0060	3387	2724	0008317	0160	14474								
214		OBS	0150	-0060	33870	2724			14474								
214		OBS	0175	0005	33500	2731			14512								
		STD	0200	0000	3405	2733	0007507	0206	14540								
214		OBS	0200	0000	34050	2733			14540								
214		OBS	0225	0000	34090	2736			14545								
		STD	0250	0049	3413	2740	0000894	0242	14545								
214		OBS	0250	0049	34130	2740			14545								
		STD	0300	0088	3428	2750	0000010	0274	14573								
214		OBS	0300	0088	34280	2750			14573								
		STD	0400	0079	3435	2756	0005430	0331	14580								
214		OBS	0400	0079	34350	2756			14580								
		STD	0500	0130	3447	2762	0004919	0383	14627								
214		OBS	0500	0130	34470	2762			14627								
		STD	0600	0124	3452	2767	0004524	0430	14642								
214		OBS	0600	0124	34520	2767			14642								
		STD	0700	0100	3454	2770	0004200	0474	14648								
214		OBS	0700	0100	34540	2770			14648								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	TO. NO.					10"	1"	MO	DAY	HR.		MIN.	SEC.			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
31318U	WE	7424UN	077080W	200	47	00	05	237	1970	WE3	009	0050	00	0	X	02	7	8	0069			

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
LT	SD	25	SC3	104	012	006	7		

MESSAGE TIME (HR 1/10)	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- t_{10}^s	SAD ON: $M \times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S/C
		STD	0000	0450	2220	2553	0024502	0000	14052								
237		UBS	0000	0450	2220	2553			14052								
		STL	0010	0300	2300	2631	0017193	0020	14501								
237		UBS	0010	0300	2300	2631			14501								
		STD	0020	-0020	2330	2675	0012653	0035	14436								
237		UBS	0020	-0020	2330	2675			14436								
		STD	0030	-0145	2345	2675	0011290	0047	14409								
237		UBS	0030	-0145	2345	2675			14409								
		STD	0050	-0170	2355	2702	0010448	0059	14402								
237		UBS	0050	-0170	2355	2702			14402								
		STD	0075	-0170	2356	2703	0010356	0095	14406								
237		UBS	0075	-0170	2356	2703			14406								
		STD	0100	-0162	2360	2706	0010054	0121	14415								
237		UBS	0100	-0162	2360	2706			14415								
		STD	0125	-0107	2372	2714	0009291	0145	14440								
237		UBS	0125	-0107	2372	2714			14440								
		STD	0150	-0056	2383	2721	0005043	0167	14476								
237		UBS	0150	-0056	2383	2721			14476								
		STD	0200	0002	2392	2726			14508								
237		UBS	0200	0002	2392	2726	0007905	0209	14530								
		STD	0225	0053	2400	2729			14530								
237		UBS	0225	0053	2400	2729			14530								
		STD	0250	0095	2415	2735	0007034	0246	14560								
237		UBS	0250	0095	2415	2735			14560								
		STD	0300	0166	2433	2748	0006197	0279	14608								
237		UBS	0300	0166	2433	2748			14608								
		STD	0400	0220	2451	2759	0005321	0337	14651								
237		UBS	0400	0220	2451	2759			14651								
		STD	0500	0166	2453	2764	0004761	0367	14644								
237		UBS	0500	0166	2453	2764			14644								
		STD	0600	0110	2454	2769	0004200	0432	14636								
237		UBS	0600	0110	2454	2769			14636								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- IHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
318180	WE	74370N	076480W	260	46	06	014	1970	WE3	070	0503	00	0	X	02	6	8	0070				
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (M)	DIR.	SPEED OF FORCE	(mba)	DRY BULB	WET BULB												
				UT	SD	ZS	SC3	1CC	C17	-011	7											
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	SC				
014	014	014	014	014	014	014	014	014	014	014	014	014	014	014	014	014	014	014	014			

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- IHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
313180	WE	74480N	076055W	260	46	06	032	1970	WE3	071	0421	29	1	2	02	6	8	0071				
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (M)	DIR.	SPEED OF FORCE	(mba)	DRY BULB	WET BULB												
				UT	SD	ZS	SC6	CS0	017	-011	7											
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	SC				
032	032	032	032	032	032	032	032	032	032	032	032	032	032	032	032	032	032	032	032			

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																												
						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA																										
31518U	WE		74570N	075170W	26C	45	06	06	C50	137C	WE	3	072	0420		22	1	2		40	X	7		0072																								
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>SD</td> <td>22</td> <td>569</td> <td>669</td> <td>010</td> <td>008</td> <td>3</td> <td></td> </tr> </tbody> </table>																								WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	LT	SD	22	569	669	010	008	3	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																							
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																										
LT	SD	22	569	669	010	008	3																																									
MESSNGR TIME HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CC																															
		STD	0000	0410	3260	2585	0021183	0000	14641																																							
	050	UBS	0000	0410	32600	2585			14641																																							
		STL	0010	0410	3300	2621	0016182	0019	14646																																							
	050	UBS	0010	0410	33000	2621			14646																																							
		STL	0020	0400	3320	2655	0014912	0030	14581																																							
	050	UBS	0020	0400	33200	2655			14581																																							
		STD	0030	-0130	3345	2655	0011335	0049	14416																																							
	050	UBS	0030	-0130	33450	2655			14416																																							
		STD	0050	-0167	3353	2700	0010611	0071	14403																																							
	050	UBS	0050	-0167	33530	2700			14403																																							
		STD	0075	-0175	3355	2702	0010420	0057	14404																																							
	050	UBS	0075	-0175	33550	2702			14404																																							
		STL	0100	-0160	3362	2708	0009881	0125	14412																																							
	050	UBS	0100	-0160	33620	2708			14412																																							
		STD	0125	-0132	3370	2713	0009354	0147	14434																																							
	050	UBS	0125	-0132	33700	2713			14434																																							
		STD	0150	-0119	3381	2722	0008543	0169	14446																																							
	050	UBS	0150	-0119	33810	2722			14446																																							
		UBS	0175	0011	33930	2726			14512																																							
		STD	0200	0033	3404	2734	0007480	0209	14528																																							
	050	UBS	0200	0033	34040	2734			14528																																							
	050	UBS	0225	0054	34160	2740			14501																																							
		STD	0250	0142	3421	2740	0006904	0245	14537																																							
	050	UBS	0250	0142	34210	2740			14537																																							
		STL	0300	0115	3425	2745	0006413	0278	14584																																							
	050	UBS	0300	0115	34250	2745			14584																																							
		STD	0400	0050	3430	2754	0005613	0338	14572																																							
	050	UBS	0400	0050	34300	2754			14572																																							

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																												
						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA																										
31518U	WE		75138N	073250W	26C	53	06	06	C50	137C	WE	3	073	0713		34	3	2		01	X	0		0073																								
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>LT</td> <td>SD</td> <td>32</td> <td>512</td> <td>642</td> <td>033</td> <td>027</td> <td>7</td> <td></td> </tr> </tbody> </table>																								WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	LT	SD	32	512	642	033	027	7	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																							
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																										
LT	SD	32	512	642	033	027	7																																									
MESSNGR TIME HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CC																															
		STL	0000	0185	3155	2525	0027330	0000	14529																																							
	090	UBS	0000	0185	31550	2525			14529																																							
		STD	0010	0185	3305	2644	0015941	0021	14551																																							
	090	UBS	0010	0185	33050	2644			14551																																							
		STD	0020	-0050	3320	2670	0013523	0030	14448																																							
	090	UBS	0020	-0050	33200	2670			14448																																							
		STD	0030	-0116	3330	2680	0012528	0049	14420																																							
	090	UBS	0030	-0116	33300	2680			14420																																							
		STD	0050	-0170	3349	2657	0010909	0072	14401																																							
	050	UBS	0050	-0170	33490	2657			14401																																							
		STD	0075	-0170	3354	2701	0010512	0099	14406																																							
	090	UBS	0075	-0170	33540	2701			14406																																							
		STD	0100	-0170	3360	2706	0010034	0125	14411																																							
	090	UBS	0100	-0170	33600	2706			14411																																							
		STD	0125	-0150	3366	2710	0009609	0149	14425																																							
	090	UBS	0125	-0150	33660	2710			14425																																							
		STL	0150	-0060	3375	2719	0008819	0172	14461																																							
	090	UBS	0150	-0060	33790	2719			14461																																							
	090	UBS	0175	-0044	33860	2723			14486																																							
		STL	0200	0015	3397	2725	0007911	0214	14519																																							
	090	UBS	0200	0015	33970	2729			14519																																							
	090	UBS	0225	0047	34060	2734			14539																																							
		STD	0250	0072	3413	2735	0007030	0252	14555																																							
	090	UBS	0250	0072	34130	2735			14555																																							
		STD	0300	0125	3430	2745	0006112	0284	14539																																							
	090	UBS	0300	0125	34300	2745			14539																																							
		STL	0400	0215	3448	2757	0005504	0343	14648																																							
	090	UBS	0400	0215	34480	2757			14648																																							
		STD	0500	0200	3452	2761	0005115	0390	14659																																							
	090	UBS	0500	0200	34520	2761			14659																																							
		STD	0600	0130	3453	2767	0004490	0444	14645																																							
	090	UBS	0600	0130	34530	2767			14645																																							

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DIR. INCH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.			
310180	WE	75290N	071500W	260	51	06	133	1970	WE3	074	0603	32	3	3	02	X	0	0074		
				WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB					WET BULB						
				LT	SU	34	512	026	044					036	7					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\delta \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CCC			
	133	STD	0000	0160	3180	2546	0025271	0000	14521											
		OBS	0000	0160	31800	2546			14521											
		STD	0010	0170	3200	2562	0023811	0024	14530											
	133	OBS	0010	0170	32000	2562			14530											
		STD	0020	-0064	3320	2670	0013477	0043	14442											
	133	OBS	0020	-0064	33200	2670			14442											
		STD	0030	-0117	3336	2685	0012067	0056	14421											
	133	OBS	0030	-0117	33360	2685			14421											
		STD	0050	-0165	3354	2701	0010539	0076	14404											
	133	OBS	0050	-0165	33540	2701			14404											
		STD	0075	-0175	3358	2705	0010185	0104	14404											
	133	OBS	0075	-0175	33580	2705			14404											
		STD	0100	-0154	3364	2709	0009708	0129	14419											
	133	OBS	0100	-0154	33640	2709			14419											
		STD	0125	-0116	3372	2714	0009261	0133	14442											
	133	OBS	0125	-0116	33720	2714			14442											
		STD	0150	-0060	3381	2719	0008777	0175	14474											
	133	OBS	0150	-0060	33810	2719			14474											
	133	OBS	0175	0005	33920	2725			14509											
		STD	0200	0074	3401	2729	0007953	0217	14540											
	133	OBS	0200	0074	34010	2729			14540											
	133	OBS	0225	0079	34060	2733			14553											
		STD	0250	0083	3413	2738	0007107	0233	14560											
	133	OBS	0250	0083	34130	2738			14560											
		STD	0300	0148	3430	2747	0006284	0288	14000											
	133	OBS	0300	0148	34300	2747			14000											
		STD	0400	0170	3445	2758	0005358	0346	14028											
	133	OBS	0400	0170	34450	2758			14028											
		STD	0500	0180	3454	2764	0004798	0397	14050											
	133	OBS	0500	0180	34540	2764			14050											

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DIR. INCH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.			
310180	WE	75365N	071020W	260	51	06	142	1970	WE3	075	0518	31	3	3	02	X	0	0075		
				WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB					WET BULB						
				LT	SU	34	512	026	044					030	7					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\delta \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CCC			
	142	STD	0000	0190	3200	2560	0023547	0000	14537											
		OBS	0000	0190	32000	2560			14537											
		STD	0010	0180	3200	2561	0023664	0023	14534											
	142	OBS	0010	0180	32000	2561			14534											
		STD	0020	0090	3300	2650	0015455	0043	14487											
	142	OBS	0020	0090	33000	2650			14487											
		STD	0030	-0120	3335	2684	0012130	0057	14419											
	142	OBS	0030	-0120	33350	2684			14419											
		STD	0050	-0164	3354	2701	0010539	0080	14405											
	142	OBS	0050	-0164	33540	2701			14405											
		STD	0075	-0173	3356	2703	0010348	0106	14405											
	142	OBS	0075	-0173	33560	2703			14405											
		STD	0100	-0173	3360	2706	0010024	0131	14409											
	142	OBS	0100	-0173	33600	2706			14409											
		STD	0125	-0080	3373	2714	0009310	0155	14459											
	142	OBS	0125	-0080	33730	2714			14459											
		STD	0150	-0032	3382	2719	0008825	0178	14487											
	142	OBS	0150	-0032	33820	2719			14487											
	142	OBS	0175	-0002	33910	2725			14506											
		STD	0200	0064	3402	2730	0007812	0220	14542											
	142	OBS	0200	0064	34020	2730			14542											
	142	OBS	0225	0059	34120	2736			14563											
		STD	0250	0112	3415	2738	0007145	0257	14573											
	142	OBS	0250	0112	34150	2738			14573											
		STD	0300	0136	3430	2748	0006193	0290	14594											
	142	OBS	0300	0136	34300	2748			14594											
		STD	0400	0136	3442	2756	0005312	0348	14613											
	142	OBS	0400	0136	34420	2756			14613											

TABLE II. Observed and interpolated Nansen oceanographic data from stations taken by USCGC WESTWIND, 24 July-6 August 1970, prepared from NODC Listing No. 31-1680.

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER SEA	TYPE		AMT			
31680	WE		74300N	075509W	266	45	07	24	183	1570	WE3	N01	0050			UU	U	X			8	8	0001
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE										
									04	503	139	022	018	7	11								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-200°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C						
	183	STD	0000	0230	3253	2031	0017179	0000	14570														
		UBS	0009	0236	32535	2031			14572														
		STL	0010	0235	3253	2032	0017173	0017	14571														
		STD	0020	0225	3253	2032	0017103	0034	14569														
	183	UBS	0023	0222	32535	2033			14560														
		STD	0030	0005	3310	2050	0014840	0050	14501														
	183	UBS	0042	-0115	33315	2081			14423														
		STD	0050	-0123	3340	2089	0011729	0070	14422														
	183	UBS	0003	-0142	33510	2099			14417														
		STD	0075	-0162	3355	2702	0010441	0104	14410														
	103	UBS	0009	-0175	33585	2705			14405														
		STD	0100	-0170	3360	2700	0010050	0130	14400														
		STD	0125	-0159	3361	2707	0009943	0155	14421														
	183	UBS	0135	-0143	33619	2707			14427														
		STL	0150	-0120	3367	2711	0009580	0179	14441														
	183	UBS	0175	-0085	33759	2710			14435														
		STD	0200	-0024	3385	2721	0008599	0225	14499														
		STD	0250	0077	3404	2731	0007777	0200	14550														
	183	UBS	0275	0117	34129	2735			14579														
		STL	0300	0150	3423	2741	0008830	0302	14002														
	183	UBS	0348	0190	34370	2750			14030														
		STL	0400	0160	3439	2753	0005759	0305	14020														
	183	UBS	0437	0153	34419	2750			14020														
		STD	0500	0139	3440	2700	0005003	0419	14631														
	103	UBS	0532	0137	34480	2703			14530														

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER SEA	TYPE		AMT		
31680	WE		74190N	080025W	201	40	07	24	1370	WE3	N02	0050			UU	U	X			8	8	0002
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE									
									04	503	139	022	018	7	02							
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-200°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C					
	202	UBS	0055	-0105	33742	2717			14414													
		STD	0100	-0160	3375	2718	0008075		14410													
		STL	0125	-0132	3382	2723	0008401		14430													
		STC	0150	-0105	3388	2727	0003003		14453													
		STD	0200	-0051	3401	2735	0007300		14439													
		STD	0250	0004	3413	2742	0000020		14524													
		STD	0300	0050	3420	2750	0005930		14559													
	202	UBS	0345	0107	34270	2750			14590													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311680	WE	74078N	080000W	261	40	07	24	221	1970	WE3	N03	0803	00	0	X			8	8			0003	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB
				33	503	139	023	011	7	12													

MESSAGE TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · ml ⁻¹	TOTAL-P μg · ml ⁻¹	NO ₂ -N μg · ml ⁻¹	NO ₃ -N μg · ml ⁻¹	SiO ₄ -Si μg · ml ⁻¹	pH	S C C
		STD	0010	0080	3288	2637	0016617		14502								
221		UBS	0010	0080	3287	2637			14502								
		STD	0020	0213	3313	2645	0015519		14506								
221		UBS	0025	0222	33230	2656			14572								
		STD	0030	0166	3325	2665	0013650		14522								
221		UBS	0045	-0129	33422	2691			14419								
		STD	0050	-0123	3345	2693	0011303		14418								
221		UBS	0070	-0145	33555	2702			14417								
		STD	0075	-0148	3358	2704	0010282		14417								
221		UBS	0095	-0154	33654	2710			14418								
		STD	0100	-0152	3366	2711	0009988		14420								
		STD	0125	-0144	3372	2715	0009142		14429								
225		UBS	0144	-0138	33775	2720			14436								
		STD	0150	-0120	3380	2721	0009597		14445								
225		UBS	0194	-0012	33968	2730			14505								
		STD	0200	-0002	3395	2732	0007649		14511								
		STD	0250	0086	3417	2742	0006090		14553								
225		UBS	0290	0096	34275	2749			14574								
		STD	0300	0092	3425	2750	0009978		14574								
225		UBS	0390	0080	34352	2759			14585								
		STD	0400	0085	3441	2760	0009042		14589								
225		UBS	0450	0119	34457	2765			14621								
		STD	0500	0122	3450	2765	0004639		14624								
225		UBS	0590	0134	34515	2766			14645								
		STD	0600	0133	3452	2766	0004583		14646								
225		UBS	0650	0126	34547	2765			14656								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311680	WE	73555N	075590W	260	35	07	25	017	1970	WE3	N04	0813	00	0	X			8	8			0004	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB
				33	503	139	023	011	7	02													

MESSAGE TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · ml ⁻¹	TOTAL-P μg · ml ⁻¹	NO ₂ -N μg · ml ⁻¹	NO ₃ -N μg · ml ⁻¹	SiO ₄ -Si μg · ml ⁻¹	pH	S C C
017		UBS	0095	-0180	33729	2716			14414								
		STD	0100	-0161	3374	2717	0006972		14417								
		STD	0125	-0133	3380	2721	0006509		14435								
		STD	0150	-0106	3386	2726	0006180		14453								
		STD	0200	-0052	3399	2733	0007450		14486								
		STD	0250	0003	3411	2741	0006772		14523								
		STD	0300	0057	3423	2748	0006165		14558								
017		UBS	0341	0102	34334	2753			14586								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

311000	WE		73450N	030000W		201	30	07	25	035	1970	WE3	NO3	0023	4	00	0	X			X	9	0005	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
								22	502	129	017	006	5	12										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		STD	0010	-0132	3247	2613	0010883		14398								
035		UBS	0010	-0132	3246E	2613			14396								
		STD	0020	-0133	3254	2619	0010323		14400								
035		UBS	0020	-0133	3254	2619			14401								
		STD	0030	-0133	3270	2632	0017102		14403								
035		UBS	0030	-0133	32531	2651			14400								
		STD	0030	-0137	3295	2652	0015101		14409								
		STD	0075	-0139	3303	2659	0014529		14413								
035		UBS	0080	-0139	33043	2660			14414								
035		UBS	0085	-0142	33242	2670			14418								
		STD	0100	-0140	3329	2660	0012497		14420								
		STD	0125	-0135	3348	2690	0011015		14431								
035		UBS	0145	-0120	33595	2704			14439								
		STD	0150	-0125	3360	2705	0010100		14440								
035		UBS	0195	-0109	33696	2712			14457								
		STD	0200	-0104	3371	2713	0009337		14460								
		STD	0230	-0658	3385	2723	0008437		14491								
035		UBS	0291	-0020	33956	2730			14515								
		STD	0300	-0020	3398	2731	0007053		14519								
035		UBS	0350	0034	34175	2744			14552								
		STD	0400	0041	3420	2746	0006303		14567								
035		UBS	0450	0051	3437E	2757			14607								
		STD	0500	0053	3438	2758	0005280		14609								
035		UBS	0550	0109	34443	2761			14632								
		STD	0600	0111	3445	2762	0004949		14635								
035		UBS	0650	0129	3445E	2764			14659								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

311000	WE		73437N	079048W		200	39	07	25	055	1970	WE3	NO3	0050	4	00	0	X			X	9	0006	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
								31	502	139	006	000	0	02										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
030		UBS	0070	-0164	32602	2641			14397								
		STD	0075	-0161	3262	2643	0016051		14400								
		STD	0100	-0146	3291	2650	0015358		14412								
		STD	0125	-0132	3301	2657	0014077		14424								
		STD	0150	-0117	3310	2664	0013999		14437								
		STD	0200	-0086	3328	2676	0012600		14401								
		STD	0250	-0059	3347	2692	0011342		14486								
		STD	0300	-0030	3365	2706	0010053		14510								
		STD	0400	0029	3402	2733	0007501		14559								
036		UBS	0463	0077	34332	2754			14599								

REFERENCE CITY CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE	73435N	078146W	26038	07	25	079	1970	WE3	N07	1006	00	0	X		X	9	0007	
				WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL			
				COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	CODE	DEPTHS	OBSERVATIONS						
							31	502	139	006	002	0	03						

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C
075		UBS	0163	-0146	33720	2715			14434								
		STU	0200	-0064	3381	2721	0006028		14471								
		STL	0250	-0011	3393	2727	0006093		14514								
		STO	0300	0047	3402	2731	0007692		14550								
079		UBS	0309	0051	34030	2732			14553								
		STU	0400	0057	3409	2736	0007279		14572								
		STU	0500	0064	3414	2740	0006070		14593								
		STU	0600	0070	3420	2745	0006490		14613								
079		UBS	0645	0073	3425	2746			14622								

REFERENCE CITY CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE	73360N	077350W	26037	07	45	211	1970	WE3	N08	1073	00	0	X		7	8	0008	
				WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL			
				COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	CODE	DEPTHS	OBSERVATIONS						
							34	504	122	002	000	6	12						

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C
		STU	0010	0011	3207	2576	0022402		14459								
110		UBS	0040	0011	32073	2576			14459								
		STU	0040	-0027	3293	2647	0015077		14455								
110		UBS	0025	-0046	33216	2671			14451								
		STL	0030	0036	3327	2672	0013555		14453								
110		UBS	0045	0152	33357	2675			14447								
		STU	0050	0068	3341	2680	0012609		14519								
110		UBS	0070	-0065	33451	2691			14444								
		STU	0075	-0092	3346	2693	0011351		14441								
110		UBS	0095	-0116	33500	2696			14434								
		STU	0100	-0119	3351	2697	0010888		14433								
		STU	0125	-0135	3355	2701	0010507		14431								
110		UBS	0144	-0144	33582	2704			14430								
		STU	0150	-0149	3359	2705	0010107		14429								
110		UBS	0165	-0157	33604	2711			14432								
		STU	0200	-0134	3370	2713	0009337		14446								
		STL	0250	-0065	3381	2719	0008750		14488								
110		UBS	0275	-0037	33861	2723			14506								
		STU	0300	-0016	3393	2727	0008059		14519								
110		UBS	0371	0036	34061	2737			14558								
		STU	0400	0063	3412	2739	0007035		14576								
110		UBS	0455	0163	34220	2744			14605								
		STU	0500	0113	3432	2751	0005943		14618								
110		UBS	0551	0122	34356	2757			14631								
		STL	0600	0124	3441	2758	0005309		14640								
110		UBS	0657	0126	34434	2759			14651								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
OBT CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			WATER				WIND			BARO- METER			AIR TEMP. °C			SPECIAL OBSERVATIONS	
																COLOR CODE	TRANS M	DIR.		SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	°C	°C		°C
311080	WE	73300N	077000W	260	27	07	25	135	1970	WE3	N09	1024	00	0	X		7	8			0009									

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ OYN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
135		UBS	0145	-0140	33618	2707			14430								
		STC	0150	-0140	3363	2708	0009841		14433								
		STC	0200	-0085	3376	2710	0009033		14409								
		STC	0250	-0030	3388	2724	0008327		14502								
		STC	0300	0067	3399	2731	0007722		14532								
135		UBS	0341	0030	34070	2730			14554								
		STC	0400	0057	3418	2743	0006589		14573								
		STC	0500	0089	3432	2753	0005695		14006								
		STC	0600	0120	3443	2760	0005134		14039								
135		UBS	0649	0130	34473	2762			14054								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
OBT CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			WATER				WIND			BARO- METER			AIR TEMP. °C			SPECIAL OBSERVATIONS	
																COLOR CODE	TRANS M	DIR.		SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	°C	°C		°C
311080	WE	73410N	076120W	260	26	07	25	159	1970	WE3	N10	0914	00	0	X		8	8			0010									

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ OYN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
157		UBS	0049	-0157	33714	2715			14410								
		STC	0050	-0150	3372	2715	0009213		14411								
		STC	0075	-0131	3375	2717	0008995		14427								
157		UBS	0089	-0117	33772	2710			14436								
		STC	0100	-0104	3380	2720	0008700		14445								
		STC	0125	-0074	3386	2724	0008329		14403								
		STC	0150	-0047	3392	2728	0007989		14481								
		STC	0200	0009	3403	2734	0007391		14514								
		STC	0250	0040	3413	2740	0006892		14543								
		STC	0300	0083	3421	2745	0006402		14569								
159		UBS	0353	0114	34290	2749			14593								
		STC	0400	0117	3432	2751	0005964		14003								
		STC	0500	0124	3437	2755	0005018		14023								
		STC	0600	0131	3443	2758	0005285		14043								
159		UBS	0650	0137	34473	2762			14062								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS					
																DIR	HGT PER	SEA			
311080	WE	73400N	075310W	200	35	07	25	181	1570	WE3	N11	0914	00	0	X		8	8	0011		
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB												
					36	50E	122	031	022	7	12										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-R10°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		STO	0010	0206	3266	2612	0019064		14555								
181		Obs	0010	0206	32658	2612			14555								
		STD	0020	-0029	3308	2659	0014528		14456								
181		Obs	0025	-0106	33229	2674			14423								
		STD	0030	-0116	3328	2675	0012003		14420								
181		Obs	0045	-0140	33414	2690			14413								
		STD	0050	-0145	3344	2693	0011340		14412								
181		Obs	0070	-0160	33540	2701			14410								
		STD	0075	-0161	3350	2703	0010360		14410								
181		Obs	0095	-0160	33633	2705			14412								
		STD	0100	-0160	3364	2705	0009737		14413								
		STD	0125	-0167	3367	2712	0009449		14417								
181		Obs	0145	-0168	33705	2715			14421								
		STD	0150	-0161	3371	2715	0009174		14425								
181		Obs	0193	-0059	33786	2719			14403								
		STD	0200	-0081	3362	2721	0008003		14472								
		STD	0250	0021	3402	2733	0007531		14530								
181		Obs	0292	0080	34163	2741			14506								
		STD	0300	0085	3418	2742	0006709		14570								
181		Obs	0369	0125	34308	2754			14505								
		STD	0400	0126	3438	2755	0005544		14608								
181		Obs	0488	0132	34466	2761			14626								
		STD	0500	0132	3446	2761	0004953		14628								
181		Obs	0568	0132	34498	2764			14643								
		STD	0600	0131	3450	2764	0004732		14645								
		STD	0700	0117	3451	2760	0004561		14655								
181		Obs	0754	0051	34520	2765			14659								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS					
																DIR	HGT PER	SEA			
311080	WE	73500N	074500W	200	24	07	25	207	1570	WE3	N12	0978	00	0	X		7	8	0012		
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB												
					26	50E	121	037	024	2	02										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-R10°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
207		Obs	0145	-0175	33705	2715			14417								
		STD	0150	-0171	3372	2716	0009079		14420								
		STD	0200	-0132	3362	2723	0008402		14446								
		STD	0250	-0093	3352	2730	0007704		14470								
		STD	0300	-0095	3402	2730	0007157		14504								
		STD	0400	0023	3422	2749	0006044		14559								
		STD	0500	0101	3442	2760	0005077		14613								
207		Obs	0531	0125	34462	2763			14630								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311680	WE		7404N	074050W	260	44	07	25	25	1970	NE3	N13	0780		00	0	X				7	8	0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									27	SG2	115	033	002	7	02								

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ol}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ol}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ol}^{-1}$	pH	S C/C
226		UBS	0140	-0160	33747	2710			14424								
		STD	0150	-0151	3377	2715	0003704		14430								
		STD	0200	-0167	3367	2720	0008084		14461								
		STD	0250	-0062	3358	2733	0007454		14471								
		STD	0300	-0028	3408	2740	0000800		14522								
		STD	0400	0071	3425	2752	0005816		14581								
		STL	0500	0160	3450	2762	0004923		14641								
226		UBS	0510	0169	3422	2763			14647								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311680	WE		7411N	073170W	260	43	07	26	006	1970	WE3	N14	0780		00	0	X				7	7	0014
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									06	SG6	085	039	028	7	02								

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ol}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ol}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ol}^{-1}$	pH	S C/C
006		UBS	0092	-0165	33669	2712			14413								
		STU	0100	-0155	3365	2713	0009371		14419								
		STD	0125	-0123	3376	2718	0008907		14439								
		STD	0150	-0090	3383	2723	0000400		14460								
		STD	0200	-0026	3358	2732	0007635		14500								
		STD	0250	0028	3412	2740	0000890		14539								
		STD	0300	0103	3426	2747	0006224		14574								
006		UBS	0377	0202	34484	2758			14639								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	

311680	WE	74200N	072180W	260	42	07	26	028	1970	WE3	N15	0708		03	0	1			1	6		0015
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
							27	S1C	C94	U42	022	7	12									

MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		STL	0010	0249	3258	2602	0019980		14573								
		UBS	0010	0249	3258	2602			14573								
		STD	0020	-0060	3332	2680	0012564		14445								
		UBS	0025	-0157	33553	2702			14404								
		STC	0030	-0164	3356	2703	0010470		14402								
		UBS	0044	-0176	33585	2705			14398								
		STL	0050	-0176	3360	2706	001068		14400								
		UBS	0069	-0175	33635	2709			14404								
		STL	0075	-0173	3365	2710	00090.		14406								
		UBS	0093	-0167	33650	2713			14412								
		STL	0100	-0149	3370	2714	0009300		14422								
		STC	0125	-0087	3376	2717	0009028		14456								
		UBS	0142	-0047	33816	2720			14478								
		STC	0150	-0027	3386	2722	0008503		14489								
		UBS	0191	0058	34034	2732			14538								
		STC	0200	0068	3407	2734	0007490		14544								
		STL	0250	C117	3422	2743	0006627		14577								
		UBS	0290	C147	3426	2745			14598								
		STD	0300	C152	3435	2751	0005946		14602								
		UBS	0321	C184	3447	2754			14631								
		STD	0400	C191	3448	2758	0005308		14637								
		UBS	0460	C193	34482	2758			14652								
		STL	0500	C182	3445	2760	0005184		14650								
		UBS	0577	C142	34518	2765			14640								
		STL	0600	C131	3452	2766	0004554		14645								
		STD	0700	C052	3454	2770	0004141		14645								
		UBS	0775	C070	34540	2772			14647								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	

311680	WE	74300N	070500W	260	40	07	26	058	1970	WE3	N10	1372		00	0	X			7	6		0016
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
							00	S0C	C92	011	006	4	02									

MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		UBS	0055		33657												
		STD	0100		3367												
		STC	0125		3372												
		STD	0150		3378												
		STC	0200		3385												
		STL	0250		3400												
		STD	0300		3411												
		STD	0400		3433												
		UBS	0455		34543												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE	74510N	005040W	255	49	07	26	108	4	570	WE3	N17	1372		00	0	X		X	9	0017	
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB																
		16	SC9	080	-004	-006	3	01														
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CD					
108		OBS	0425	018	34462	2759			14040													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE	75040N	008370W	255	58	07	26	128	1	570	WE3	N18	0750		00	0	X		X	9	0018	
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB																
		1c	SC9	080	-004	-006	1	02														
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CD					
128		OBS	0094	-0172	33571	2704			14400													
		STD	0100	-0106	3355	2705	0010152		14412													
		STD	0125	-0143	3364	2709	0009747		14428													
		STD	0150	-0120	3370	2713	0009454		14444													
		STL	0200	-0074	3382	2721	0008598		14475													
		STL	0250	-0028	3394	2725	0007883		14507													
		STD	0300	0018	3406	2736	0007228		14538													
		STD	0400	0110	3430	2750	0006037		14599													
128		OBS	0452	0155	34518	2761			14655													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE	75150N	008080W	255	58	07	26	152	1	570	WE3	N19	0493		00	0	X		X	9	0019	
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB																
		11	SC9	090	001	000	4	08														
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CD					
152		STD	0010	-0125	3281	2641	0016276		14406													
		OBS	0010	-0125	32810	2641			14406													
		STD	0020	-0140	3324	2676	0012921		14403													
152		OBS	0025	-0156	33300	2600			14402													
		STL	0030	-0160	3341	2690	0011002		14401													
152		OBS	0045	-0169	33472	2656			14400													
		STD	0050	-0170	3349	2697	0010862		14401													
152		OBS	0070	-0173	33551	2702			14404													
		STD	0075	-0173	3355	2702	0010403		14405													
152		OBS	0095	-0171	33500	2703			14409													
		STD	0100	-0156	3358	2704	0010218		14417													
		STD	0125	-0085	3368	2710	0009690		14456													
		STL	0150	-0024	3377	2715	0009252		14489													
152		OBS	0155	0003	33921	2722			14539													
		STD	0200	0069	3394	2723	0008481		14543													
		STD	0250	0119	3408	2731	0007734		14575													
152		OBS	0255	0151	34196	2739			14599													
		STD	0300	0154	3421	2739	0007016		14601													
152		OBS	0355	0100	34418	2754			14631													

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
						10"	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
311640	WE		75494N	067390W	255	57	07	26	180	1970	WE3	N20	0430	00	0	X			X	19	0020
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									12	505	116	006	000	3	02						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C				
	180	UBS	0295																		
		STD	0100	33583																	
		STD	0125	3360																	
		STD	0150	3368																	
		STD	0200	3376																	
		STD	0250	3352																	
		STD	0250	3408																	
	180	UBS	0295	34223																	

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
						10"	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
311680	WE		75430N	067110W	255	57	07	26	197	1970	WE3	N21	0400	00	0	X			X	19	0021
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									12	505	116	006	000	3	02						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C				
	197	UBS	0095	-0165	33574	2704				14412											
		STD	0100	-0157	3359	2705	0010137			14417											
		STD	0125	-0115	3367	2710	0004631			14442											
		STD	0150	-0074	3375	2715	0009149			14460											
		STD	0200	0010	3352	2725	0003280			14515											
		STD	0250	0093	3408	2733	0007554			14563											
	197	UBS	0294	0166	34223	2740				14605											

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
						10"	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
311680	WE		75457N	066460W	255	56	07	26	114	1970	WE3	N22	0423	00	0	X			X	19	0022
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									15	503	126	-001	-000	3	01						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C				
	214	UBS	0045	-0120	33404	2685				14422											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311000	WE		7240N	00020W		25	58	07	27	051	1970	WC3	N23	0605		00	00			X	9	0023
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB	ORY BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									10	SC5	135	000	-006	2	02							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C					
051		UBS	0035	-0170	33582	2705			14410													
		STD	0100	-0150	3363	2708	0009839		14417													
		STD	0125	-0059	3366	2725	0006230		14422													
		STD	0150	-0039	3410	2742	0006000		14407													
051		UBS	0154	0005	34507	2705			14548													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311000	WE		7530N	00900W		25	52	07	27	023	1970	WC3	N24	0538		UU	U	X		X	9	0024
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB	ORY BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									11	SC6	135	-007	-011	2	04							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C					
003		STL	0010	-0117	3278	2638	0010540		14407													
		UBS	0010	-0117	32777	2638			14407													
		STL	0020	-0142	3322	2675	0013039		14405													
003		UBS	0025	-0152	33377	2688			14404													
		STL	0030	-0150	3342	2691	0011457		14402													
003		UBS	0044	-0171	33523	2700			14400													
		STL	0050	-0172	3354	2701	0010502		14401													
003		UBS	0069	-0174	33583	2705			14404													
		STD	0075	-0174	3358	2705	0010100		14405													
003		UBS	0094	-0173	33586	2705			14400													
		STD	0100	-0157	3361	2706	0010011		14417													
		STD	0125	-0052	3370	2711	0009522		14455													
		STD	0150	-0035	3376	2716	0009085		14405													
003		UBS	0192	0040	33929	2724			14531													
		STD	0200	0059	3396	2726	0008250		14538													
		STD	0250	0124	3413	2735	0007369		14578													
003		UBS	0262	0153	34230	2741			14598													
		STD	0300	0160	3429	2745	0006482		14005													
003		UBS	0378	0178	34463	2758			14028													
		STD	0400	0176	3449	2761	0005077		14031													
003		UBS	0485	0166	34525	2764			14641													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311600	WE		7523N	00940W		25	59	07	27	103	1970	WC3	N25	0635		10	02			6	1	0025
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB	ORY BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									11	SC6	139	-007	-011	6	02							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C					
103		UBS	0055	-0165	33583	2705			14412													
		STU	0200	-0161	3360	2705	0010091		14415													
		STD	0125	-0139	3366	2710	0009667		14430													
		STD	0150	-0118	3372	2714	0009250		14445													
		STL	0200	-0074	3384	2722	0006463		14475													
		STD	0250	-0031	3396	2731	0007719		14505													
		STD	0300	0012	3408	2738	0007007		14535													
		STD	0400	0058	3433	2753	0005720		14594													
103		UBS	0483	0170	34533	2764			14643													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
CRUISE NO.	STATION NUMBER						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR			
311000	WE		75460N	07020W	200	50	07	27	137	1970	WE3	N20	0530	15	0	2		X 9	0026	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS						
								11	SC6	135	-007	-011	3	02						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C		
	137	OBS	0094	-0139	33669	2711				14425										
		STD	0100	-0135	33668	2712	0009503			14428										
		STD	0125	-0118	33733	2715	0009143			14441										
		STD	0150	-0101	33795	2719	0006795			14454										
		STD	0200	-0067	33695	2726	0006107			14480										
		STD	0230	-0033	3400	2733	0007448			14505										
		STD	0300	0001	3410	2740	0006827			14530										
		STD	0400	0069	3431	2753	0005052			14581										
	137	OBS	0481	0124	34481	2763				14621										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
CRUISE NO.	STATION NUMBER						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR			
311000	WE		75564N	06334W	255	59	07	27	167	1970	WE3	N27	0457	00	0	X		X 9	0027	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS						
								10	SC4	145	000	000	5	09						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C		
		STD	0010	-0116	32395	2607	0019499			14404										
	107	OBS	0010	-0116	32393	2607				14404										
		STD	0020	-0132	32833	2643	0016060			14405										
		STD	0030	-0146	3318	2671	0013375			14405										
	167	OBS	0045	-0161	33511	2655				14405										
		STD	0050	-0165	3253	2700	0010630			14404										
	167	OBS	0070	-0173	33576	2704				14404										
		STD	0075	-0172	3358	2704	0010213			14405										
	167	OBS	0095	-0170	33583	2705				14410										
		STD	0100	-0164	3355	2705	0010117			14413										
		STD	0125	-0137	3264	2708	0009794			14431										
	167	OBS	0125	-0137	33219	26740														
	107	OBS	0145	-0070	33655	2711				14467										
		STD	0150	-0057	3272	2712	0009472			14474										
	167	OBS	0195	0047	33512	2722				14531										
		STD	0200	0056	3354	2724	0008402			14537										
		STD	0250	0129	3415	2737	0007255			14581										
	167	OBS	0295	0167	34255	2740				14607										
		STD	0300	0167	3421	2747	0006326			14608										
	167	OBS	0395	0156	34475	2760				14622										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
CRUISE NO.	STATION NUMBER						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR			
311000	WE		76043N	06500W	255	69	07	27	167	1970	WE3	N28	0146	00	0	X		6 7	0028	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS						
								1E	SC5	145	-011	-017	3	01						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C		
	187	OBS	0045	-0069	33285	2678				14445										

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311580	WE		76120N	065470W		259	69	07	27	203	1970	WE3	N29	0207		00	0	X		6	7	0029
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
								18	SC5	145	-011	-017	3	01								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C C					
203		UBS	0055	-0140	33611	2706			14424													

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311600	WE		76240N	073230W		260	63	07	30	1970	WE3	N30	0429		00	0	X		6	2	0030	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
								02	S14	149	011	000	7	09								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C C					
199		UBS	0069	-0046	3219	2588	002173	0000	14432													
		STC	0010	-0045	3220	2585	002123	0021	14433													
		STC	0020	-0059	3234	2600	002011	0041	14432													
199		UBS	0023	-0063	32403	2600			14431													
		STC	0030	-0062	3272	2632	001709	0060	14428													
199		UBS	0042	-0104	32656	2663			14425													
		STC	0050	-0107	3315	2668	001371	0091	14426													
199		UBS	0066	-0109	33240	2675			14429													
		STC	0075	-0104	3325	2675	001263	0124	14433													
199		UBS	0088	-0100	33355	2684			14438													
		STC	0100	-0102	3341	2688	001171	0134	14440													
		STC	0125	-0107	3354	2695	001069	0182	14444													
199		UBS	0133	-0100	33584	2703			14450													
		STC	0150	-0095	3373	2714	000927	0207	14450													
199		UBS	0178	-0077	33506	2728			14472													
		STC	0200	-0072	3354	2731	000770	0250	14478													
		STC	0230	-0060	3402	2736	000714	0287	14493													
199		UBS	0265	-0057	34044	2738			14497													
		STC	0300	-0050	3410	2742	000657	0321	14507													
199		UBS	0354	-0041	34181	2749			14521													

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311600	WE		78265N	074100W		260	84	07	30	224	1970	WE3	N31	0550		00	0	X		6	2	0031
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
								02	S14	149	011	000	7	02								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C C					
224		UBS	0082	-0135	33127	2667			14416													
		STC	0100	-0125	3324	2676	001290		14427													
		STC	0125	-0112	3340	2688	001171		14439													
		STC	0150	-0098	3356	2702	001053		14452													
		STC	0200	-0071	3388	2725	000819		14477													
224		UBS	0230	-0055	34066	2740			14493													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WIND INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			

311680	WE	78313N	074220W	260	84	07	31	005	1970	WE3	N32	0357	00	0	X			3	1	0032
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WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR	SPEED OR FORCE		DRY BULB	WET BULB			

		04	S12	120	C32	006	9	02	
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MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	S.C.C.
005		OBS	0085	-0137	33224	2675			14416								
		STC	0100	-0129	3330	2681	0012419		14420								
		STC	0125	-0117	3344	2691	0011434		14436								
		STC	0150	-0104	3357	2702	0010452		14450								
		STD	0200	-0078	3383	2722	0008505		14473								
		STD	0250	-0053	3410	2742	0006589		14497								
005	UBS	UBS	0250	-0053	34097	2742			14497								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WIND INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			

311680	WE	77240N	075190W	260	75	07	31	071	1970	WE3	N33	0625	09	2	2			6	1	0033
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WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR	SPEED OR FORCE		DRY BULB	WET BULB			

		09	S18	114	034	019	9	10	
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MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	S.C.C.
		STC	0000	0052	3165	2540	0025842	0000	14470								
071		UBS	0008	0052	31648	2540			14472								
		STC	0010	0061	3182	2554	0024551	0025	14478								
		STC	0020	0083	3248	2605	0019640	0047	14499								
071		UBS	0020	0083	32475	2605			14499								
		STD	0030	0065	3269	2623	0017901	0060	14495								
071		UBS	0037	0043	32790	2633			14488								
		STD	0050	-0030	3284	2640	0010325	0100	14457								
071		UBS	0057	-0058	32883	2645			14446								
		STC	0075	-0050	3303	2658	0014030	0139	14436								
071		UBS	0076	-0055	33054	2660			14435								
		STC	0100	-0130	3314	2660	0013647	0174	14423								
071		UBS	0115	-0144	33208	2674			14420								
		STD	0125	-0145	3325	2677	0012759	0207	14422								
		STD	0150	-0148	3337	2687	0011765	0238	14426								
071		UBS	0150	-0148	33374	2687			14426								
		STC	0200	-0085	3374	2714	0009221	0290	14409								
071		UBS	0226	-0055	33875	2725			14489								
		STD	0250	-0015	3398	2731	0007086	0332	14513								
		STD	0300	0025	3412	2740	0006821	0309	14542								
071		UBS	0303	0026	34126	2741			14543								
071		UBS	0309	-0046	34107	2748			14525								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
	311850	WE	7744UN	074000W		200	74	07	31	100	1970	WE3	N34	0315		30	2	2		0	1	0034

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		05	S 12	124	034	014	9	00	

MESSAGE#	TIME OF	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. ML. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S. CODE	
			STL	0010	0297	3288	2630	0027553		14554									
100			UBS	0010	0297	32875	2630			14554									
			STL	0020	0069	3298	2646	0015791		14500									
			STL	0030	-0029	3307	2650	0014515		14456									
100			UBS	0040	-0121	3317	2671			14419									
			STL	0050	-0122	3322	2674	0013121		14420									
100			UBS	0070	-0129	3337	2684			14423									
			STL	0075	-0120	3336	2685	0012002		14424									
			STL	0100	-0132	3347	2695	0011119		14427									
			STL	0125	-0130	3350	2703	0010290		14430									
100			UBS	0140	-0142	3352	2710			14432									
			STL	0150	-0135	3367	2711	0009504		14430									
100			UBS	0155	-0000	3368	2720			14477									
			STL	0200	-0001	3363	2721	0006570		14482									
			STL	0250	0000	3356	2725	0007907		14523									
100			UBS	0255	0000	34054	2733			14500									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
	311880	WE	7054UN	071510W		200	01	07	31	1970	WE3	N35	1004		30	2	2		0	1	0035	

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		10	S 12	045	046	034	9	02	

MESSAGE#	TIME OF	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. ML. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S. CODE	
140			UBS	0005	-0165	33607	2706			14411									
			STL	0100	-0155	3364	2705	0009795		14410									
			STL	0125	-0139	3369	2712	0009451		14431									
			STL	0150	-0122	3373	2710	0009110		14443									
			STL	0200	-0009	3383	2722	0008405		14408									
			STL	0250	-0057	3353	2725	0007045		14473									
			STL	0300	-0024	3403	2735	0007240		14518									
			STL	0400	0042	3422	2748	0000133		14507									
140			UBS	0404	0057	34308	2758			14608									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
	311880	WE	70483N	072110W		200	62	07	31	1970	WE3	N36	0400		03	2	2		6	1	0036	

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		10	S 12	045	046	034	9	02	

MESSAGE#	TIME OF	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. ML. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S. CODE	
160			UBS	0094	-0100	33717	2715			14413									
			STL	0100	-0102	3373	2710	0009002		14410									
			STL	0125	-0143	3378	2720	0008701		14430									
			STL	0150	-0125	3383	2724	0008352		14443									
			STL	0200	-0009	3354	2731	0007680		14470									
			STL	0250	-0052	3404	2738	0007039		14497									
			STL	0300	-0016	3414	2744	0006427		14523									
160			UBS	0376	0040	3429E	2754			14504									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
311600	WE		70410N	073300W	220	63	07	31	207	1970	WE3	N37	0549		04	0	1		7	6	0037		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mb)		DRY BULB		WET BULB									
						05		S1C		C06		031		024		7		02					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
209		OBS	0054	-0153	33617	2707			14410								
		STD	0100	-0150	3363	2708	0009059		14420								
		STD	0125	-0140	3368	2712	0009477		14430								
		STD	0150	-0130	3373	2716	0009090		14440								
		STD	0200	-0105	3364	2724	0009344		14459								
		STD	0250	-0088	3354	2731	0007610		14475								
		STD	0300	-0067	3405	2735	0006690		14490								
209		OBS	0350	-0029	34234	2702			14533								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
311600	WE		70400N	074300W	200	64	07	31	228	1970	WE3	N30	0305		04	0	1		7	6	0038		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mb)		DRY BULB		WET BULB									
						05		S1C		C06		031		024		7		10					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
220		STD	0010	0233	3287	2026	0017062		14570								
		OBS	0010	0233	32869	2026			14570								
		STD	0020	0029	3299	2040	0015793		14509								
228		OBS	0025	0031	33055	2054			14484								
		STD	0030	-0015	3314	2003	0014140		14405								
228		OBS	0044	-0107	33325	2002			14427								
		STD	0050	-0116	3338	2007	0011920		14425								
220		OBS	0069	-0135	33505	2097			14421								
		STD	0075	-0136	3353	2095	0010710		14421								
228		OBS	0094	-0139	33583	2704			14424								
		STD	0100	-0138	3360	2705	0010160		14426								
		STD	0125	-0136	3365	2709	0009740		14432								
228		OBS	0143	-0134	33691	2712			14436								
		STD	0150	-0127	3371	2714	0009288		14441								
228		OBS	0192	-0060	33821	2721			14468								
		STD	0200	-0076	3385	2723	0008301		14475								
		STD	0250	-0018	3401	2733	0007450		14512								
228		OBS	0291	0004	34100	2740			14530								
		STD	0300	-0002	3411	2741	0006799		14529								
228		OBS	0389	-0035	34195	2749			14530								
		STD	0400	-0033	3420	2750	0005842		14533								
228		OBS	0487	-0021	34251	2753			14554								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
311680	WE		70350N	075430W	200	65	08	01	012	1970	WE3	N39	0284		04	2	2		X	10	0039		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mb)		DRY BULB		WET BULB									
						05		S12		C00		052		002		7		02					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CODE
012		OBS	0095	-0140	33500	2697			14420								
		STD	0100	-0144	3351	2098	0010703		14422								
		STD	0125	-0135	3358	2704	0010204		14431								
		STD	0150	-0125	3365	2709	0009766		14441								
012		OBS	0169	-0110	33753	2717			14456								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE	
311600	WE		76325N	076415W	260	06	C0	C1	025	1970	WE3	N40	0285		00	0	X		0	0	0040
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE								
									C5	S13	C59	C33	025	7	01						
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SIC				
029		UBS	0655	-0152	33341	2605			14415												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE	
311600	WE		76275N	077520W	260	07	C0	C1	045	1970	WE3	N41	0320		03	3	2		4	1	0041
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE								
									C5	S13	C59	C33	025	0	01						
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SIC				
040		UBS	0177	-0150	33228	2675			14427												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE	
311600	WE		76115N	079075W	260	05	06	C1	084	1970	WE3	N42	0110		05	0	2		4	2	0042
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE								
									C5	S11	111	024	010	8	01						
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SIC				
084		UBS	0665	-0132	33346	2684			14419												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER
CRUISE CODE	IO. NO.					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DR	HGT			
311680	WE	75430N	07940W	200	55	06	01	144	1570	WE3	1443	0550	UU	U	X		4	1	0043		
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB														
		CC	SUC	117	016	006	7	09													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
		STE	0010	-0055	3259	2622	0015000		14417								
144		UBS	0010	-0055	32589	2622			14417								
		STD	0020	-0125	3258	2655	0014947		14403								
144		UBS	0025	-0148	33108	2666			14402								
		STD	0030	-0146	3313	2688	0013727		14403								
144		UBS	0040	-0149	33185	2672			14406								
		STD	0050	-0145	3320	2673	0013207		14407								
144		UBS	0070	-0151	33234	2676			14410								
		STD	0075	-0154	3324	2677	0012813		14409								
144		UBS	0085	-0159	33262	2678			14409								
		STD	0100	-0153	3328	2680	0012530		14414								
		STD	0125	-0144	3331	2682	0012272		14423								
144		UBS	0145	-0127	33451	2685			14430								
		STD	0150	-0136	3347	2686	0011630		14426								
		STD	0200	-0124	3350	2685	0010643		14446								
		STD	0250	-0112	3368	2701	0009470		14454								
144		UBS	0243	-0102	33802	2721			14476								
		STD	0300	-0094	3387	2722	0008468		14453								
144		UBS	0392	-0020	33138	2730			14500								
		STD	0400	-0016	3406	2730	0007016		14537								
144		UBS	0450	-0005	34235	2731			14561								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER
CRUISE CODE	IO. NO.					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DR	HGT			
311680	WE	75330N	07945W	200	59	06	01	150	1970	WE3	144	0549	UU	U	X		4	1	0044		
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB														
		CC	SUC	119	044	027	7	02													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
150		UBS	0055	-0156	33270	2679			14411								
		STD	0100	-0156	3328	2680	0012502		14413								
		STD	0125	-0146	3334	2685	0012037		14423								
		STD	0150	-0136	3341	2685	0011583		14432								
		STD	0200	-0110	3353	2695	0010600		14432								
		STD	0250	-0050	3365	2708	0009786		14471								
		STD	0300	-0076	3378	2717	0008908		14450								
		STD	0400	-0026	3402	2736	0007202		14529								
150		UBS	0450	-0004	34220	2750			14560								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

311000 WE 7524UN 073400W 200 50 00 01 100 1970 WE 51 N45 0003 00 0 X 317 0045

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

17 S10 C50 C58 045 7 02

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	PH	S C C
105	UBS	0054	-0157	33015	2707				14410								
	STL	0100	-0155	33022	2706	0009894			14415								
	STD	0125	-0144	33027	2711	0007504			14420								
	STL	0150	-0124	33071	2714	0009270			14453								
	STL	0200	-0113	33075	2700	0000505			14457								
	STL	0250	-0052	33055	2720	0000071			14470								
	STL	0300	-0072	33556	2732	0007442			14495								
	STL	0400	-0030	3413	2744	0000334			14533								
105	UBS	0457	0000	34255	2755				14500								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

311000 WE 7524UN 077500W 200 57 00 01 222 1970 WE 51 N40 0448 00 0 X 318 0046

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

04 S11 C09 030 022 7 02

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	PH	S C C
221	UBS	0055	-0175	33507	2705				14405								
	STL	0100	-0108	33020	2700	0010025			14412								
	STD	0125	-0142	33027	2711	0009522			14427								
	STL	0150	-0116	33075	2716	0009040			14440								
	STD	0200	-0004	33089	2726	0000410			14481								
	STD	0250	-0012	3404	2736	0007247			14515								
221	UBS	0257	0020	34144	2742				14540								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

311590 WE 7535UN 077140W 200 57 00 02 002 1970 WE 51 N47 0366 00 1 X 718 0047

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

03 S05 124 022 019 7 08

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	PH	S C C
002	STL	0010	0441	3281	2603	0019877			14500								
	UBS	0010	0441	32815	2603				14500								
	STL	0020	0152	3305	2650	0015407			14538								
002	UBS	0025	0045	33207	2660				14493								
	STL	0030	-0011	3330	2670	0012899			14469								
002	UBS	0045	-0128	33516	2650				14420								
	STD	0050	-0137	3354	2700	0010007			14417								
002	UBS	0070	-0152	33024	2700				14415								
	STL	0075	-0140	3304	2708	0009822			14418								
002	UBS	0055	-0123	33652	2712				14433								
	STL	0100	-0117	3370	2713	0009391			14437								
	STL	0125	-0085	3377	2717	0008904			14457								
002	UBS	0144	-0000	33827	2721				14473								
	STD	0150	-0045	3305	2722	0008520			14479								
002	UBS	0152	0000	33592	2731				14514								
	STD	0200	0000	3402	2733	0007520			14510								
	STD	0250	0007	3415	2744	0000524			14520								
002	UBS	0250	0007	34225	2750				14533								

REFERENCE CRUISE CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA	
311680	WE		75430N	076210W		260	50	06	02	016	1970	WE3	N48	0320		00	0	X		7	8	0048	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									C4	SC5	124	022	002	7	02								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C						
018		UBS	0055	-0125	33715	2714			14433														
		STC	0100	-0116	3373	2715	0009174		14437														
		STC	0125	-0062	3382	2721	0008633		14459														
		STC	0150	-0047	3350	2726	0006124		14481														
		STC	0200	0024	3407	2737	0007169		14524														
018		UBS	0245	0028	34228	2745			14563														

REFERENCE CRUISE CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA	
311600	WE		75517N	075404W		260	50	06	02	033	1970	WE3	N49	0333		00	0	X		7	8	0049	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									12	S1C	124	028	003	7	02								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C						
033		UBS	0054		33555																		
		STC	0100		3358																		
		STC	0125		3366																		
		STC	0150		3375																		
		STC	0200		3352																		
		STC	0250		3405																		
033		UBS	0280	0019	34191	2746			14536														

REFERENCE CRUISE CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA	
311680	WE		75585N	074400W		260	54	06	02	053	1970	WE3	N50	0384		22	2	2		6	8	0050	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									22	S13	126	018	011	7	02								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C						
053		UBS	0054	-0144	33682	2712			14423														
		STC	0100	-0137	3370	2713	0009357		14427														
		STC	0125	-0116	3377	2718	0008882		14442														
		STC	0150	-0054	3384	2723	0006419		14458														
		STC	0200	-0049	3356	2733	0007523		14489														
		STC	0250	-0005	3412	2742	0006668		14520														
053		UBS	0283	0025	34211	2748			14540														

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31108U	WE		70075N	073450W		200	03	02	075	1970	WE3	N24	0400		12	2	3			6	8	0051
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB										
									22	543	129	010	011	7	02							

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	ST C
075		UBS	0091	-0147	3364	2705			14421								
		STD	0100	-0138	3367	2711	0009505		14427								
		STD	0125	-0112	3375	2716	0009004		14444								
		STD	0150	-0088	3382	2721	0008570		14401								
		STD	0200	-0035	3397	2731	0007040		14490								
		STD	0250	0017	3412	2741	0006702		14530								
075		UBS	0264	0031	3416	2743			14539								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31108U	WE		70075N	072470W		200	02	057	1970	WE3	N22	0494		10	2	2			6	8	0052	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB										
									11	547	131	012	000	7	09							

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	ST C
		STD	0010	0336	3285	2610	0016042		14614								
		UBS	0010	0336	3285	2610			14614								
		STD	0020	0066	3315	2603	0014149		14501								
		UBS	0025	-0030	3331	2679			14400								
		STD	0030	-0070	3339	2686	0011971		14443								
		UBS	0045	-0154	3354	2702			14409								
		STD	0050	-0181	3355	2702	0010440		14400								
		UBS	0070	-0170	3358	2705			14406								
		STD	0075	-0166	3360	2700	0010052		14409								
		UBS	0095	-0143	3361	2710			14424								
		STD	0100	-0134	3367	2711	0009557		14429								
		STD	0125	-0085	3375	2716	0009110		14457								
		UBS	0144	-0044	3382	2720			14400								
		STD	0150	-0024	3386	2722	0008558		14491								
		UBS	0151	0065	3404	2732			14543								
		STD	0200	0061	3406	2733	0007504		14541								
		STD	0250	0023	3412	2741	0006777		14533								
		UBS	0266	0004	3417	2746			14531								
		STD	0300	-0001	3419	2748	0000124		14531								
		UBS	0363	-0012	3405	2757			14541								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER FOOT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA		
311600	WE	76210N	072000W	260	02	08	02	114	1970	WE3	N25	0507			11	12			6	d	0053		
					WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB			VIS. CODE									
							11		517	135	012	006	7	02									

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
114		UBS	0055	-0151	33596	2705			14419								
		STL	0100	-0149	3361	2706	0010049		14421								
		STC	0125	-0128	3365	2705	0009704		14431								
		STD	0150	-0126	3370	2713	0009309		14441								
		STL	0200	-0104	3375	2720	0008716		14461								
		STL	0250	-0081	3389	2726	0008070		14481								
		STC	0300	-0059	3398	2733	0007450		14501								
		STC	0400	-0014	3417	2740	0006241		14541								
114		UBS	0455	0028	34239	2758			14578								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER FOOT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA		
311630	WE	76250N	070500W	260	00	08	02	135	1970	WE3	N29	0292			07	02			6	d	0054		
					WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB			VIS. CODE									
							07		503	135	011	007	7	01									

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
134		UBS	0054	-0174	33572	2704			14407								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER FOOT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA		
311650	WE	76250N	070420W	260	00	08	04	172	1970	WE3	N25	0547			00	00	X			7	0	0055	
					WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB			VIS. CODE									
							21		511	175	006	000	7	09									

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
171		STC	0010	0121													
		UBS	0010	0121													
		STC	0020	-0003													
171		UBS	0025	-0051	33254	2682			14451								
		STC	0030	-0000	3341	2688	0011790		14439								
		UBS	0045	-0145	33535	2700			14413								
		STC	0050	-0157	3354	2701	0010540		14408								
171		UBS	0070	-0173	33584	2705			14404								
		STC	0075	-0122	3360	2706	0010071		14410								
171		UBS	0094	-0122	33661	2710			14433								
		STC	0100	-0107	3368	2711	0009601		14441								
		STC	0125	-0053	3370	2715	0009167		14472								
171		UBS	0144	-0018	33827	2719			14492								
		STC	0150	-0005	3385	2720	0008727		14498								
171		UBS	0194	0047	33990	2729			14532								
		STC	0200	0051	3401	2730	0007832		14535								
		STC	0250	0077	3414	2739	0006986		14557								
171		UBS	0289	0092	34227	2745			14572								
		STC	0300	0095	3425	2747	0006295		14575								
171		UBS	0369	0110	34385	2757			14599								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES (TYPE AMT)	NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA	
	311080	WE	75573N	071350W		200	51	00	04	196	1970	WE3	N50	0412		00	0	X			7	8		0056
		WATER		WIND		BARD- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE		TRANS. (mi)		DIR. SPEED OR FORCE		DRY BULB		WET BULB														
						03		S13		174		C10		007		7		02						

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
196		UBS	0055	-0105	33658	2712			14441								
		STD	0100	-0108	3370	2712	0009448		14441								
		STD	0125	-0084	3377	2717	0000984		14457								
		STD	0150	-0061	3364	2722	0000533		14474								
		STD	0200	-0013	3358	2731	0007070		14500								
		STD	0250	0024	3412	2740	0000057		14538								
196		UBS	0253	0075	3444	2748			14565								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES (TYPE AMT)	NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA	
	311080	WE	75500N	072250W		200	52	00	04	214	1970	WE3	N57	0304		00	0	X			6	7		0057
		WATER		WIND		BARD- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE		TRANS. (mi)		DIR. SPEED OR FORCE		DRY BULB		WET BULB														
						35		S05		155		C21		011		7		02						

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
213		UBS	0055	-0100	33702	2713			14441								
		STD	0100	-0107	3370	2713	0009421		14442								
		STD	0125	-0067	3377	2717	0000900		14450								
		STD	0150	-0008	3364	2722	0008512		14470								
		STD	0200	-0028	3358	2731	0007043		14499								
		STD	0250	0012	3411	2740	0000010		14527								
213		UBS	0253	0046	3428	2748			14552								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES (TYPE AMT)	NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA	
	311680	WE	75300N	073430W		200	53	00	04	230	1970	WE3	N58	0402		00	0	X			0	0		0058
		WATER		WIND		BARD- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE		TRANS. (mi)		DIR. SPEED OR FORCE		DRY BULB		WET BULB														
						30		S12		172		C12		005		7		02						

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
230		STD	0100	-0126	3366	2710	0009701		14427								
		UBS	0100	-0136	33656	2710			14427								
		STD	0125	-0111	3373	2715	0009217		14444								
		STD	0150	-0000	3360	2720	0000750		14401								
		STD	0200	-0027	3354	2725	0007803		14494								
		STD	0250	0013	3408	2738	0007022		14527								
230		UBS	0257	0060	34219	2740			14558								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
31108U	WT	75260N	074505W	260	54	06	05	021	1970	WE3	N59	0437	00	0	0			6	17	0059	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DIR CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					36	512	154	012	005	7	09										

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
021		OBS	0015	0310	32790	2813			14005								
		STD	0020	0123	3311	2853	0015098		14520								
		STD	0030	-0129	3354	2700	0010637		14413								
021		UBS	0030	-0139	33538	2700			14413								
		STD	0050	-0173	3358	2704	0010240		14401								
021		UBS	0050	-0173	33578	2704			14401								
		STD	0075	-0178	3358	2705	0010176		14403								
021		UBS	0075	-0178	33581	2705			14403								
		STD	0100	-0153	3383	2708	0009822		14419								
021		UBS	0100	-0153	33832	2708			14419								
		STD	0125	-0058	3372	2714	0009285		14450								
		STD	0150	-0044	3382	2720	0008729		14481								
021		UBS	0150	-0044	33825	2720			14481								
		STD	0200	0085	3406	2733	0007552		14542								
021		UBS	0200	0085	34062	2733			14542								
		STD	0250	0054	3419	2742	0006719		14560								
021		UBS	0250	0054	34209	2742			14575								
		STD	0300	0054	3427	2748	0006114		14575								
021		UBS	0300	0012	34273	2753			14554								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
31100U	WT	75130N	076150W	260	56	06	03	043	1970	WE3	N00	0300	34	1	2			6	8	0060	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DIR CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					63	507	142	013	006	7	02										

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
052		STD	0100	-0122	3374	2716	0009128		14435								
		UBS	0100	-0122	33738	2716			14435								
		STD	0125	-0102	3380	2720	0008707		14449								
		STD	0150	-0083	3386	2724	0008298		14464								
		STD	0200	-0043	3398	2733	0007509		14492								
		STD	0250	-0004	3411	2741	0006750		14520								
052		UBS	0250	0035	34231	2749			14548								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
31108U	WE	75040N	076550W	260	56	06	05	070	1970	WE3	N01	0311	34	1	2			6	8	0061	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DIR CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					63	507	142	013	006	7	02										

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
070		UBS	0048	-0157	33571	2703			14406								
		STD	0050	-0154	3358	2704	0010279		14410								
		STD	0075	-0121	3386	2709	0009746		14431								
		STD	0100	-0087	3374	2715	0009220		14452								
		STD	0125	-0054	3382	2720	0008734		14472								
		STD	0150	-0020	3350	2725	0008271		14493								
070		UBS	0151	0035	34033	2733			14527								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER	
						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT				PER
312030	WC		7454UN	077430W		260	47	06	05	0570	WE3	N02	0280		11	1	2		0	0	0062
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
					11	SC5	154	021	012	7	00										

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
030		UBS	0025	0118	33037	2698			14522								
		STU	0020	0020	3314	2662	0014290		14402								
		STU	0030	-0105	3331	2681	0012475		14420								
030		UBS	0030	-0105	33311	2681			14420								
		STU	0030	-0142	3348	2690	0011021		14414								
030		UBS	0050	-0143	33484	2696			14414								
		STU	0075	-0157	3355	2701	0010483		14412								
		STU	0100	-0257	3361	2700	0010001		14417								
030		UBS	0100	-0157	33608	2700			14417								
		STU	0125	-0146	3365	2710	0009604		14427								
		STU	0150	-0117	3372	2715	0009220		14440								
030		UBS	0150	-0117	33723	2715			14440								
		STU	0200	-0004	3393	2720	0006143		14509								
030		UBS	0200	-0004	33920	2720			14509								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER	
						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT				PER
311030	WE		74447N	078350W		260	40	06	05	1030	WE3	N03	0220		10	1	2		0	0	0063
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
					11	SC5	154	021	012	7	02										

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STU	0100	-0156	3355	2702	0010433		14417								
100		UBS	0100	-0156	33552	2702			14417								
		STU	0125	-0150	3363	2707	0009905		14434								
		STU	0150	-0103	3371	2713	0009359		14452								
		STU	0200	-0050	3360	2723	0006404		14457								
		STU	0250	0002	3402	2733	0007473		14522								
100		UBS	0250	0002	34167	2743			14555								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER	
						10'	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT				PER
311030	WE		74303N	078390W		260	45	06	05	122	WE3	N05	0500		04	1	2		0	0	0064
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
					20	SC6	142	025	007	7	02										

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STU	0100	-0175	3356	2705	0010140		14400								
125		UBS	0100	-0175	33564	2705			14408								
		STU	0125	-0140	3360	2710	0009047		14427								
		STU	0150	-0110	3373	2715	0009107		14440								
		STU	0200	-0057	3388	2725	0008257		14454								
		STU	0250	0002	3402	2734	0007419		14521								
		STU	0300	0001	3417	2743	0006052		14559								
125		UBS	0350	0105	34441	2757			14620								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES (TYPE AMT)	NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR			
311660	WE	74150N	07350W	200	48	05	145	1570	NEJ	N05	0070	1	1	2		0	8	0065		
						WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbx)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS						
								C5	SC2	125	025	002	7	02						

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	ST CODE
144		UBS	0058	-0160	3365	2711			14416								
		STC	0100	-0159	3366	2711	0009577		14417								
		STC	0125	-0141	3371	2715	0009216		14430								
		STC	0150	-0122	3377	2718	0008800		14444								
		STC	0200	-0086	3387	2725	0008195		14470								
		STC	0250	-0050	3357	2732	0007553		14437								
		STC	0300	-0014	3408	2735	0008940		14523								
		STC	0400	0056	3428	2752	0009610		14575								
144		UBS	0475	0115	3444	2761			14616								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES (TYPE AMT)	NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR			
311660	WE	74030N	07507W	200	48	05	171	1570	NEJ	N05	0023	0	0	0		6	8	0066		
						WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbx)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS						
								15	S17	115	023	015	7	12						

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	ST CODE
171		UBS	0015	0127	3382	2691			14526								
		STC	0020	0020	3323	2685	0013572		14481								
		STC	0030	-0127	3345	2693	0011325		14417								
171		UBS	0030	-0127	3345	2693			14417								
		STC	0050	-0147	3355	2702	0010479		14413								
171		UBS	0050	-0147	3355	2702			14413								
		STC	0075	-0157	3357	2703	0010534		14412								
171		UBS	0075	-0157	3357	2703			14412								
		STC	0100	-0167	3364	2705	0009726		14413								
171		UBS	0100	-0167	3364	2705			14413								
		STC	0125	-0151	3364	2705	0009726		14425								
171		UBS	0145	-0115	33657	2705			14440								
		STC	0150	-0112	3366	2705	0007736		14447								
171		UBS	0159	0023	3371	2708			14516								
		STC	0200	0024	3371	2708	0009905		14519								
		STC	0250	0022	3367	2715	0008918		14547								
171		UBS	0255	0025	34002	2727			14560								
		STC	0300	0025	3401	2726	0003002		14566								
171		UBS	0355	0098	34238	2746			14592								
		STC	0400	0100	3425	2747	0006304		14594								
171		UBS	0455	0123	34456	2762			14623								
		STC	0500	0124	3446	2762	0004947		14624								
171		UBS	0555	0129	34454	2764			14643								
		STC	0600	0129	3445	2764	0004746		14644								
171		UBS	0655	0110	34457	2766			14651								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																
						10'	1'	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT																																	
311000	WE	7350UN	0775UN	000	27	05	C5	154	154	154	1970	WE3	NO7	0000		00	0	X			08		0067																																
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="3">WIND</th> <th colspan="2">BARO- METER</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>BARO- METER (mba)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>15</td> <td>517</td> <td>115</td> <td>023</td> <td>000</td> <td>7</td> <td>01</td> <td></td> </tr> </tbody> </table>																								WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB				15	517	115	023	000	7	01	
WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB																																															
			15	517	115	023	000	7	01																																														
MESSAGE TIME HR. 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANDMALT-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C																																						
194		UBS	0405	0122	34411	2750			14017																																														

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																
						10'	1'	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT																																	
311000	WE	7409UN	0772UN	000	47	05	C5	214	1370	1370	1970	WE3	NO6	0700		00	0	X			70		0068																																
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="3">WIND</th> <th colspan="2">BARO- METER</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>BARO- METER (mba)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>05</td> <td>504</td> <td>050</td> <td>027</td> <td>014</td> <td>7</td> <td>02</td> <td></td> </tr> </tbody> </table>																								WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB				05	504	050	027	014	7	02	
WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB																																															
			05	504	050	027	014	7	02																																														
MESSAGE TIME HR. 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANDMALT-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C																																						
214		UBS	0058	-0155	33695	2714			14419																																														
		STC	0100	-0154	33700	2714	0009201		14420																																														
		STL	0125	-0155	33750	2710	0000930		14433																																														
		STL	0150	-0117	33800	2721	0000590		14447																																														
		STL	0200	-0081	33900	2720	0007940		14475																																														
		STC	0250	-0045	34000	2735	0007332		14500																																														
		STD	0300	-0006	34110	2741	0006733		14520																																														
		STD	0400	0004	34310	2753	0005050		14577																																														
	214	UBS	0452	0121	34452	2704			14620																																														

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																
						10'	1'	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT																																	
311000	WE	7424UN	0770UN	000	47	05	C5	237	1970	1970	1970	WE3	NO9	0650		00	0	X			78		0069																																
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="3">WIND</th> <th colspan="2">BARO- METER</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIS. CODE</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>BARO- METER (mba)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>05</td> <td>503</td> <td>104</td> <td>017</td> <td>000</td> <td>7</td> <td>02</td> <td></td> </tr> </tbody> </table>																								WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB				05	503	104	017	000	7	02	
WATER		WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	DRY BULB	WET BULB																																															
			05	503	104	017	000	7	02																																														
MESSAGE TIME HR. 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANDMALT-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C																																						
	237	STC	0100	-0102	33600	2706	0010045		14414																																														
		UBS	0100	-0102	33601	2706			14414																																														
		STD	0125	-0142	33600	2710	0009639		14429																																														
		STD	0150	-0121	33720	2714	0009245		14444																																														
		STC	0200	-0080	33830	2722	0000495		14473																																														
		STD	0250	-0040	33950	2730	0007770		14501																																														
		STL	0300	0001	34070	2737	0007097		14530																																														
		STC	0400	0003	34200	2751	0005855		14587																																														
	237	UBS	0452	0103	34325	2704			14642																																														

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
311680	WE	74370N	076480W	260	46	06	06	014	1970	WE3	N70	0503		00	0	X		6	8	0070	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE		(mb)	DRY BULB	WET BULB											
				25	SC3	100		017	-011	7	09										

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.
014		UBS	0015	0323	32546	2625			14611								
		STL	0020	0124	3317	2658	0014637		14527								
		STL	0030	-0143	3348	2690	0011052		14410								
014		UBS	0030	-0143	3348	2690			14410								
		STU	0050	-0156	3357	2705	0010533		14409								
014		UBS	0050	-0156	33570	2705			14409								
		STU	0075	-0173	3359	2705	0010125		14405								
014		UBS	0075	-0173	33589	2705			14405								
		STC	0100	-0157	3364	2709	0009758		14417								
014		UBS	0100	-0157	33640	2709			14417								
		STU	0125	-0090	3373	2714	0009261		14454								
		STU	0150	-0037	3383	2720	0003759		14484								
014		UBS	0150	-0037	33826	2720			14484								
		STU	0200	0031	3402	2732	0007596		14527								
014		UBS	0200	0031	34025	2732			14527								
		STC	0250	0125	3421	2741	0006803		14580								
		STC	0300	0157	3432	2748	0006192		14504								
014		UBS	0300	0157	34321	2748			14504								
		STC	0400	0031	3433	2757	0005287		14564								
014		UBS	0400	0031	34327	2757			14564								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
311680	WE	74480N	076065W	260	46	06	06	032	1970	WE3	N71	0421		29	1	2		6	8	0071	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE		(mb)	DRY BULB	WET BULB											
				25	SC6	050		017	-011	7	02										

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.
		STC	0100	-0139	3368	2712	0009484		14426								
032		UBS	0100	-0139	33685	2712			14426								
		STC	0125	-0106	3376	2717	0008985		14447								
		STC	0150	-0074	3384	2722	0006500		14467								
		STC	0200	-0009	3399	2732	0007609		14508								
		STC	0250	0056	3415	2741	0006791		14548								
		STC	0300	0121	3430	2745	0006055		14587								
032		UBS	0300	0121	34304	2745			14587								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDIC. 1/10	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311000	WE		74570N	075170W		200	45	05	06	050	1970	WE3	N72	0420		22	1	2			X	17	0072		
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₂ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C
051		OBS	0057	-0100													
		STC	0100	-0102													
		STC	0125	-0107													
		STC	0150	-0092													
		STC	0200	-0083													
		STC	0250	0047													
051		OBS	0200	0057													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDIC. 1/10	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311000	WE		75130N	073300W		200	53	05	06	050	1970	WE3	N73	0713		34	3	2				0	0073		
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₂ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C
090		OBS	0014	0172													
		STC	0020	0010													
		OBS	0027	-0111													
		STC	0030	-0123													
		OBS	0045	-0164													
		STC	0050	-0107													
		OBS	0058	-0172													
		STC	0075	-0172													
		OBS	0091	-0171													
		STC	0100	-0160													
		STC	0125	-0152													
		OBS	0130	-0140													
		STC	0150	-0103													
		OBS	0175	-0037													
		STC	0200	-0067													
		STC	0250	0002													
		OBS	0200	0000													
		STC	0300	0155													
		OBS	0331	0200													
		STC	0400	0213													
		OBS	0411	0213													
		STC	0500	0155													
		OBS	0510	0150													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT						
311080	WE		75290N	071500W	260	51	06	06	123	1970	WE3	N74	0603		32	3	3				0		0074						
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																	
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
						34		512		026		044		030		7		02											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
123		UBS	0050	-0174													
		STC	0100	-0163													
		STC	0125	-0136													
		STC	0150	-0108													
		STC	0200	-0053													
		STC	0250	0002													
		STC	0300	0056													
123		UBS	0308	0153													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT						
311080	WE		75365N	071620W	260	51	06	06	143	1970	WE3	N75	0510		31	3	3			X	0		0075						
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																	
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
						34		512		026		044		030		7		02											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
143		UBS	0007	-0176													
		STC	0100	-0159													
		STC	0125	-0127													
		STC	0150	-0055													
		STC	0200	-0030													
		STC	0250	0035													
		STC	0300	0045													
143		UBS	0326	0133													



532-AA

Woods Hole Oceanographic Institution
ATLAS - GAZETTEER COLLECTION

