

U.S. Coast Guard Oceanographic Report

UNITED STATES COAST GUARD
OCEANOGRAPHIC
REPORT No. 54

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OCEANOGRAPHIC CONDITIONS IN THE
NORTHERN BAFFIN BAY REGION

24 July-6 August 1970



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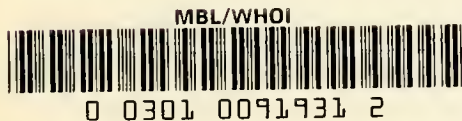
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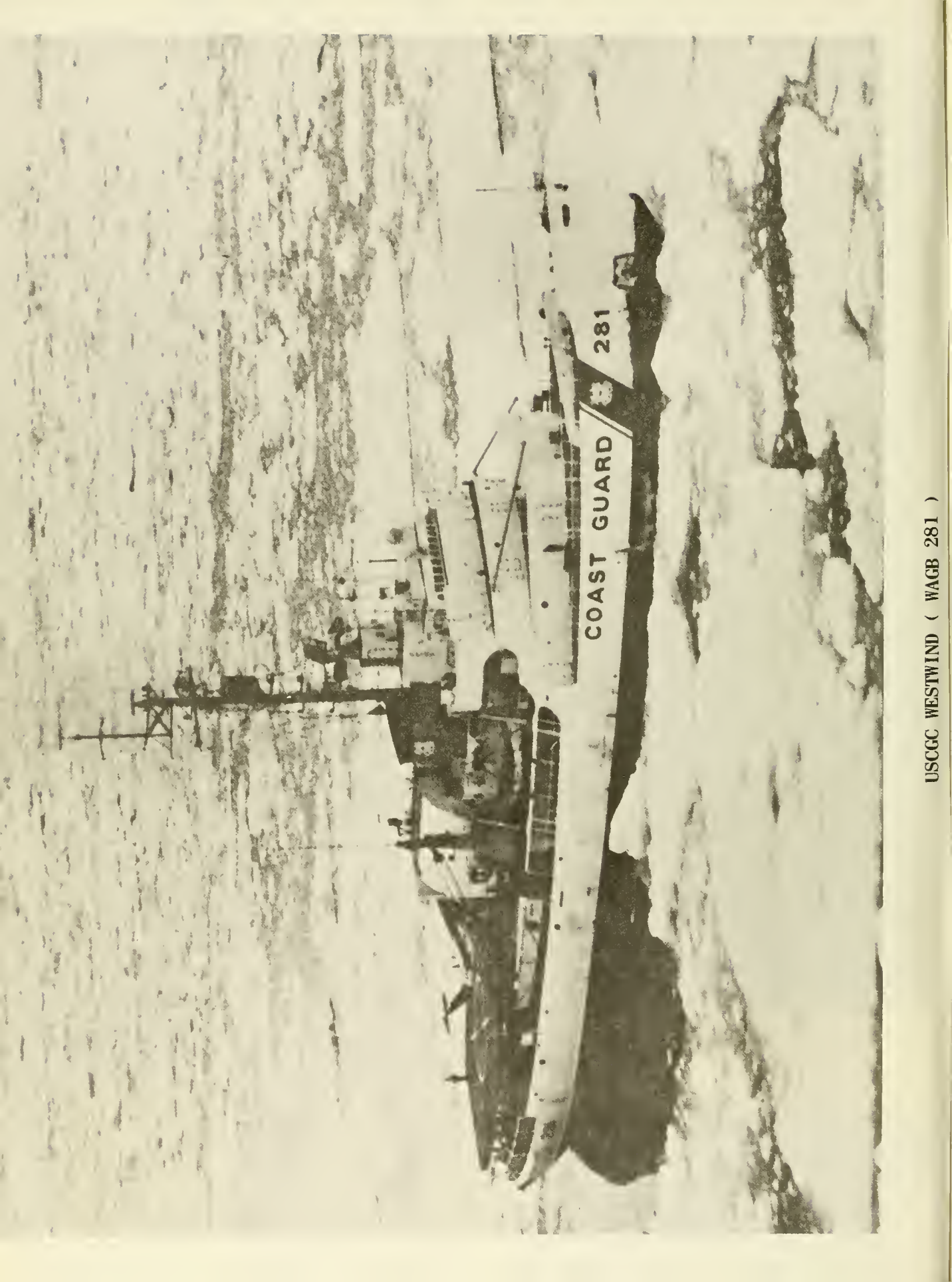
OCEANOGRAPHIC CONDITIONS IN THE NORTHERN BAFFIN BAY REGION

24 July-6 August 1970

Robin D. Muench



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.

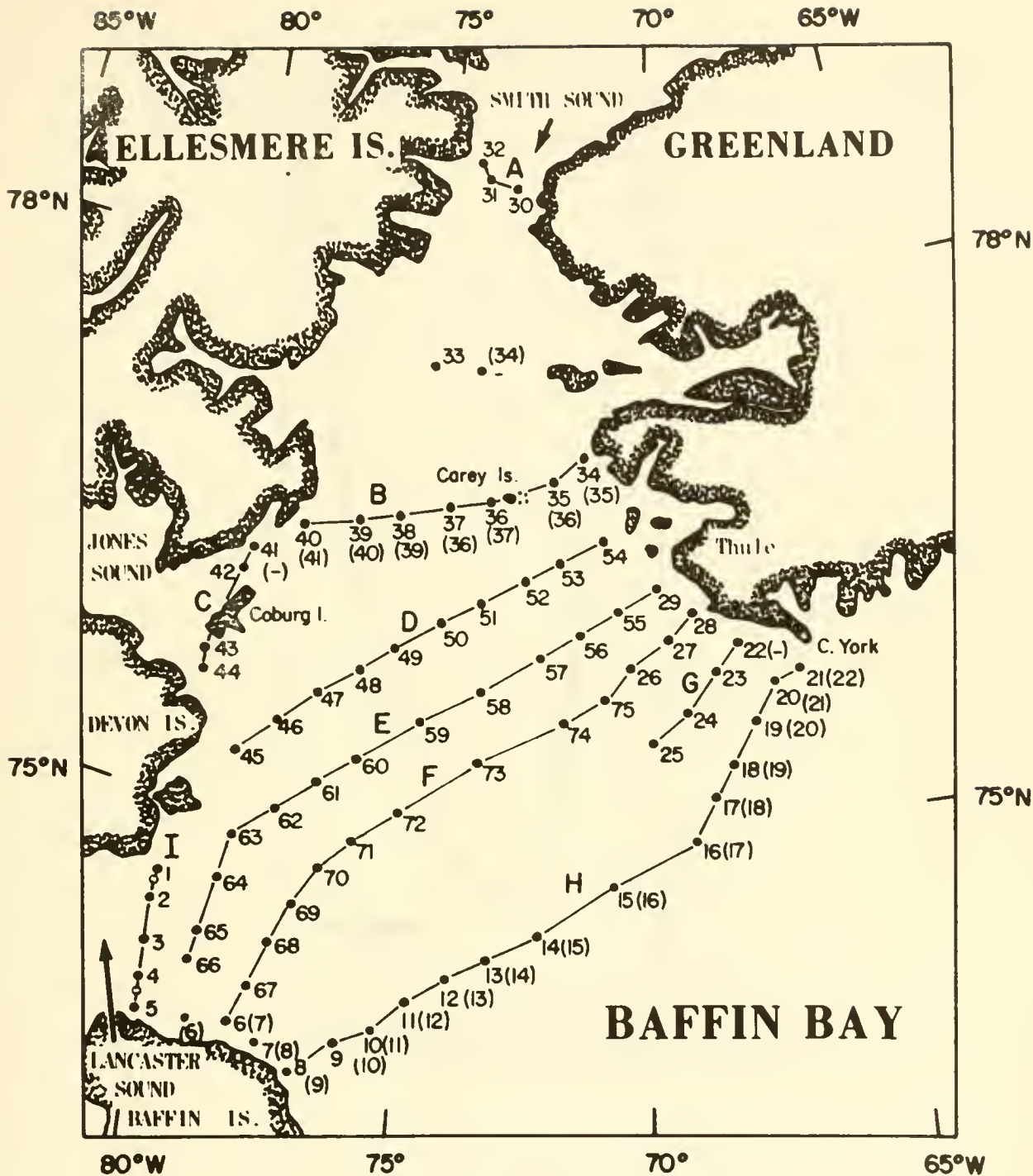


FIGURE 1. Locations of oceanographic stations occupied during the July–August 1970 oceanographic program (solid dots) and current meters moored in Lancaster Sound (open circles). Nonparenthesized numbers refer to STD stations, while parenthesized numbers are used to refer to Nansen stations in cases 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.

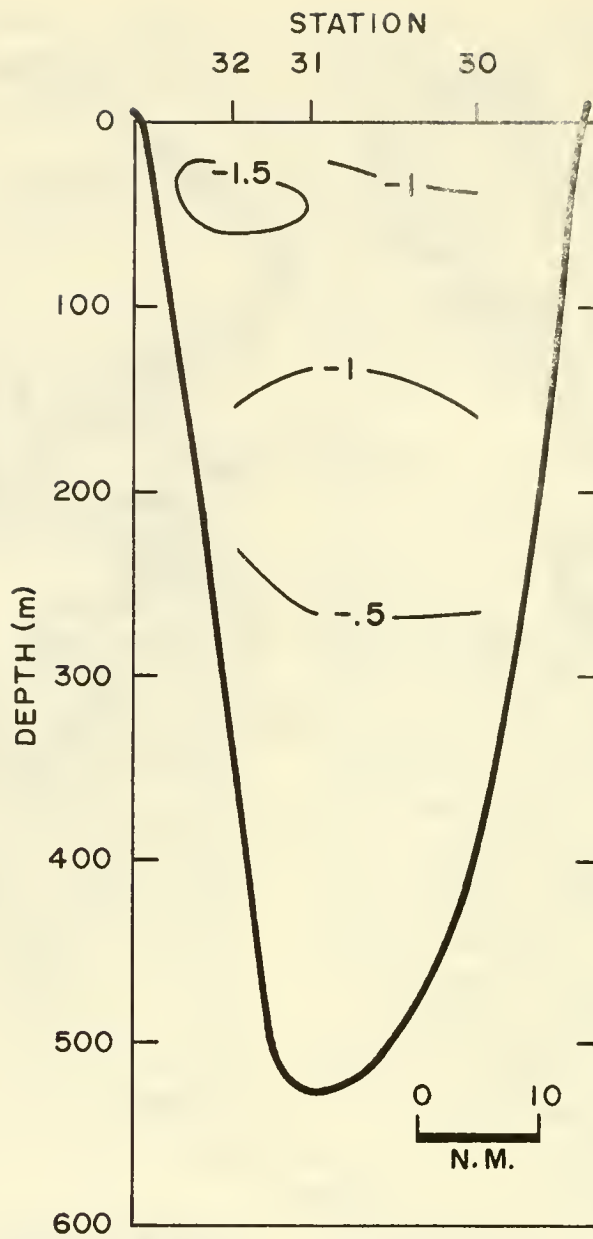


FIGURE 2. Vertical distribution of temperature; section A.

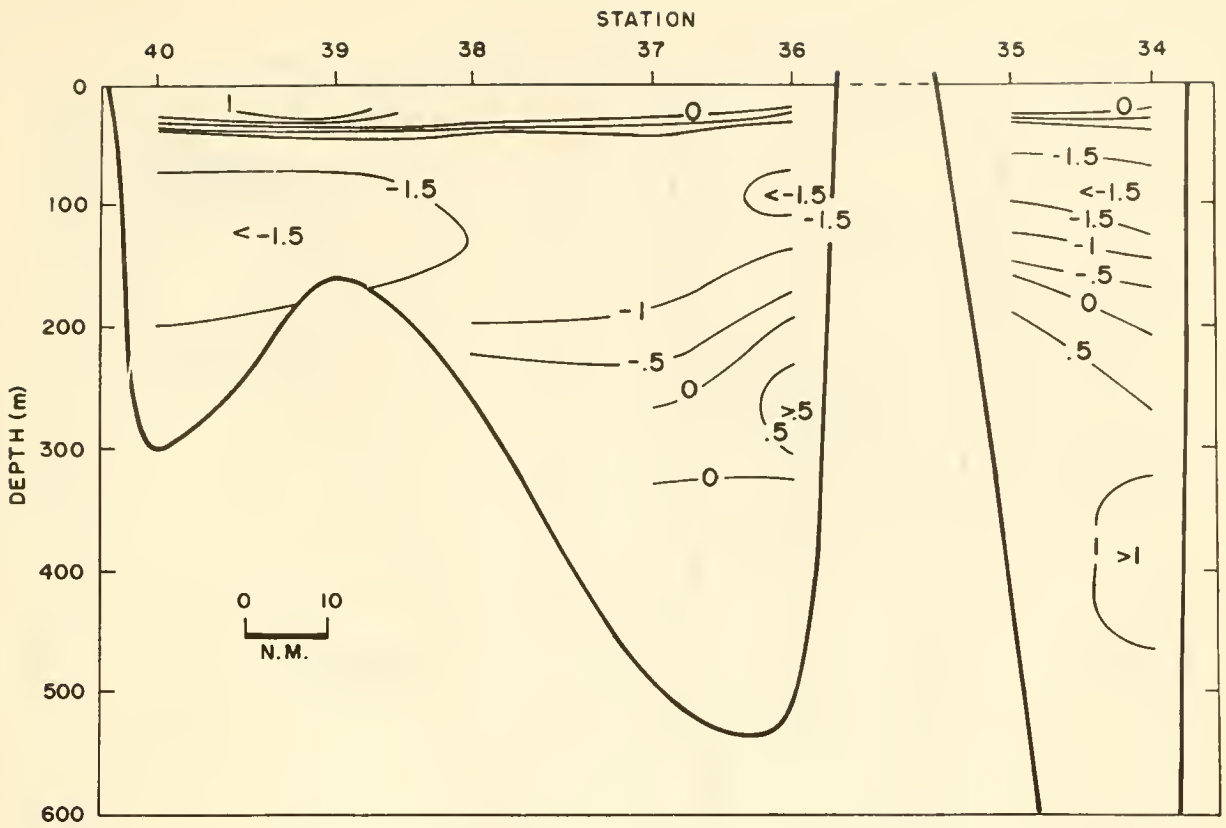


FIGURE 3. Vertical distribution of temperature; section B.

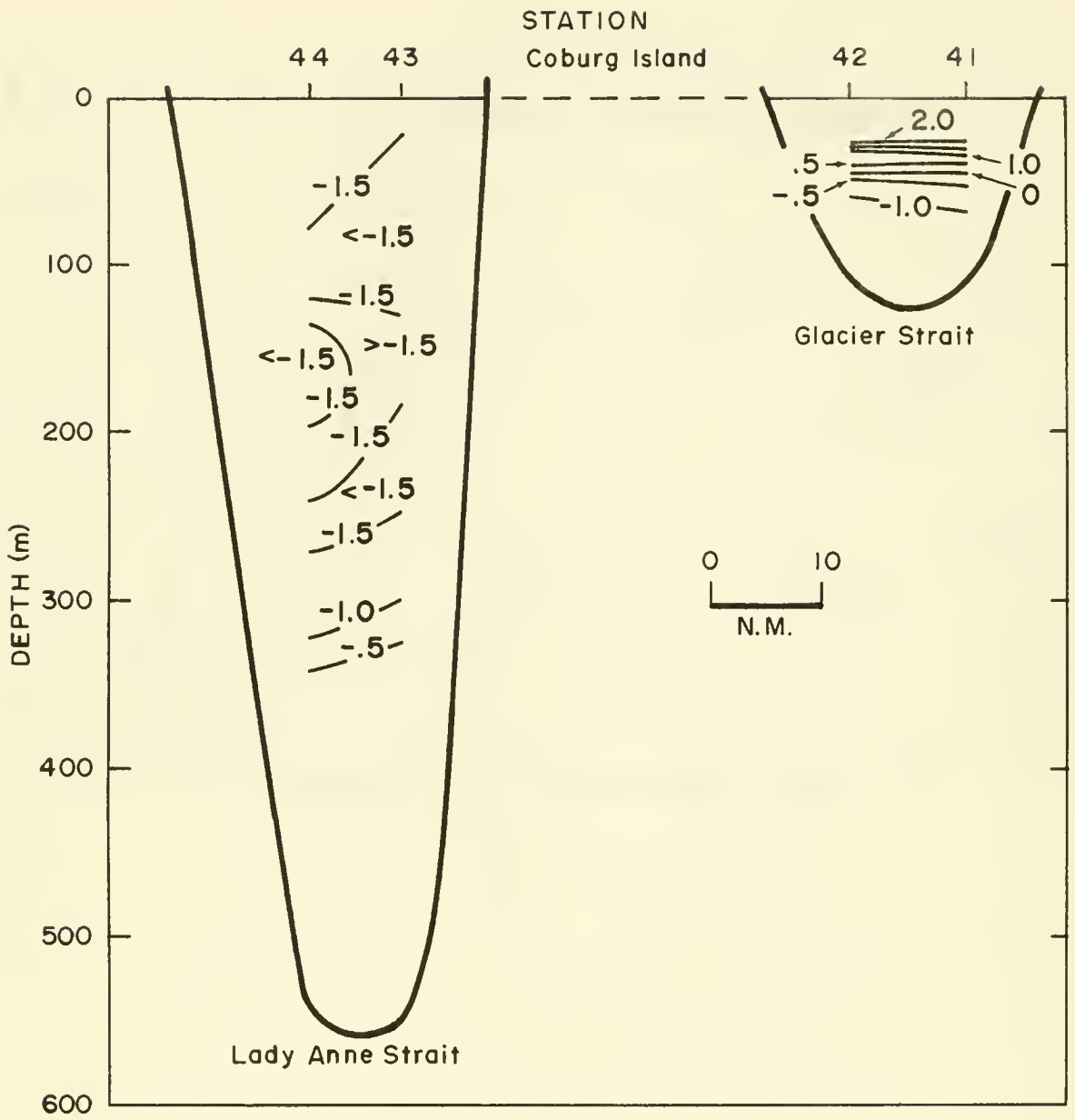


FIGURE 4. Vertical distribution of temperature; section C.

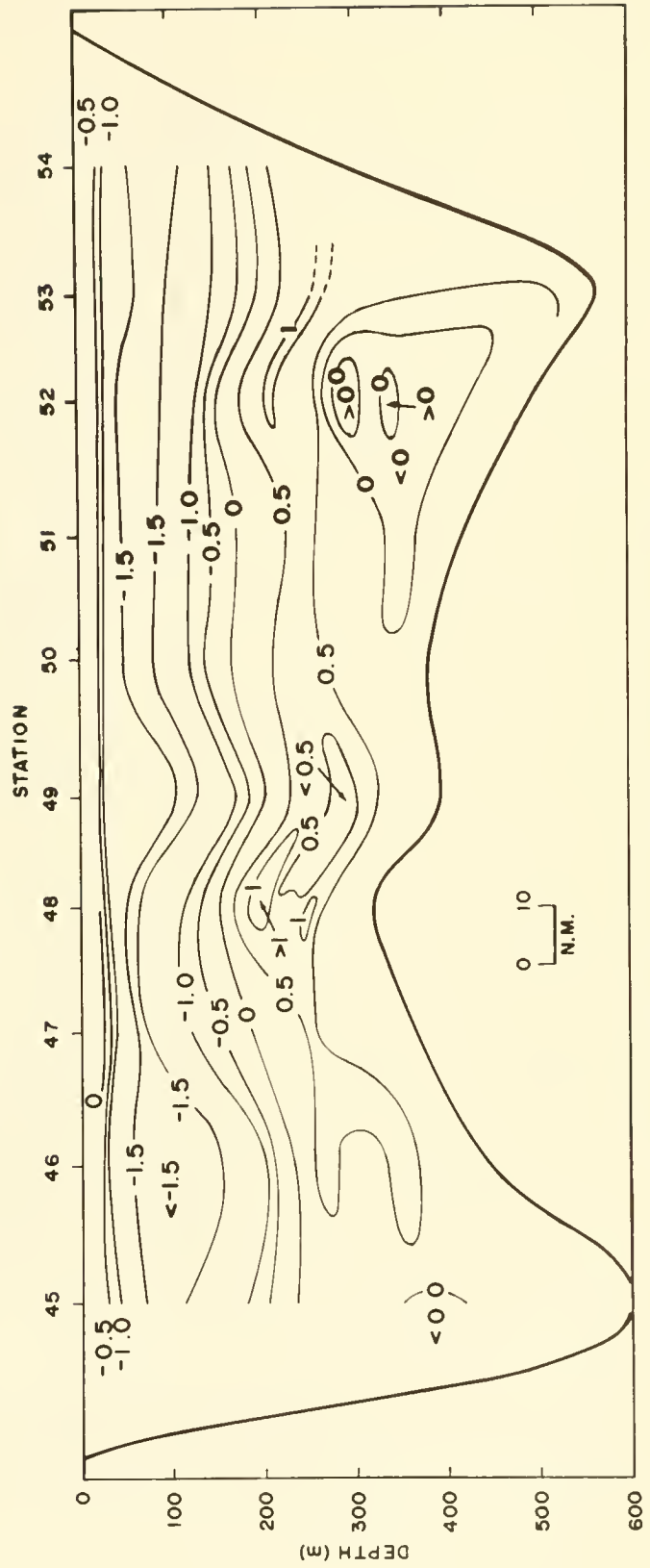


FIGURE 5. Vertical distribution of temperature; section D

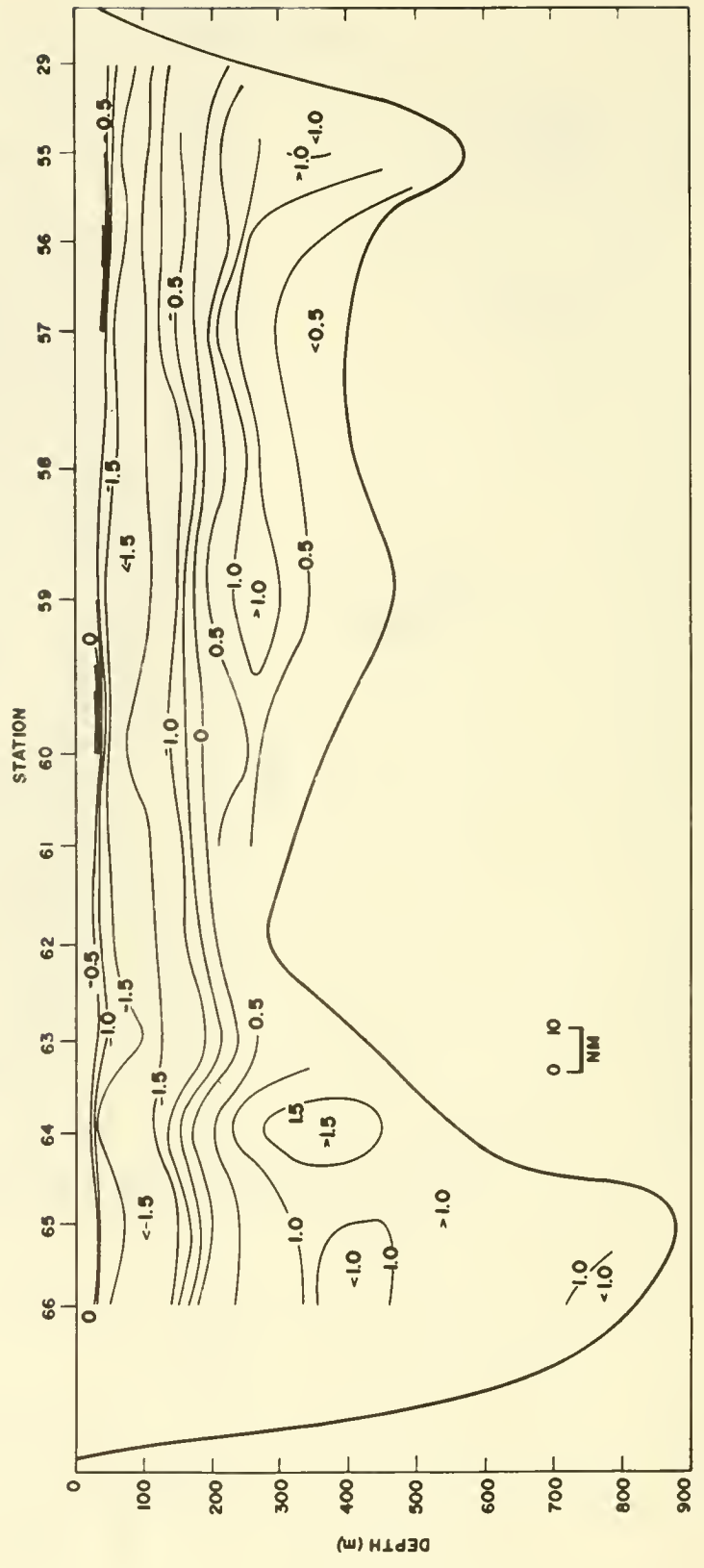


FIGURE 6. Vertical distribution of temperature; section E.

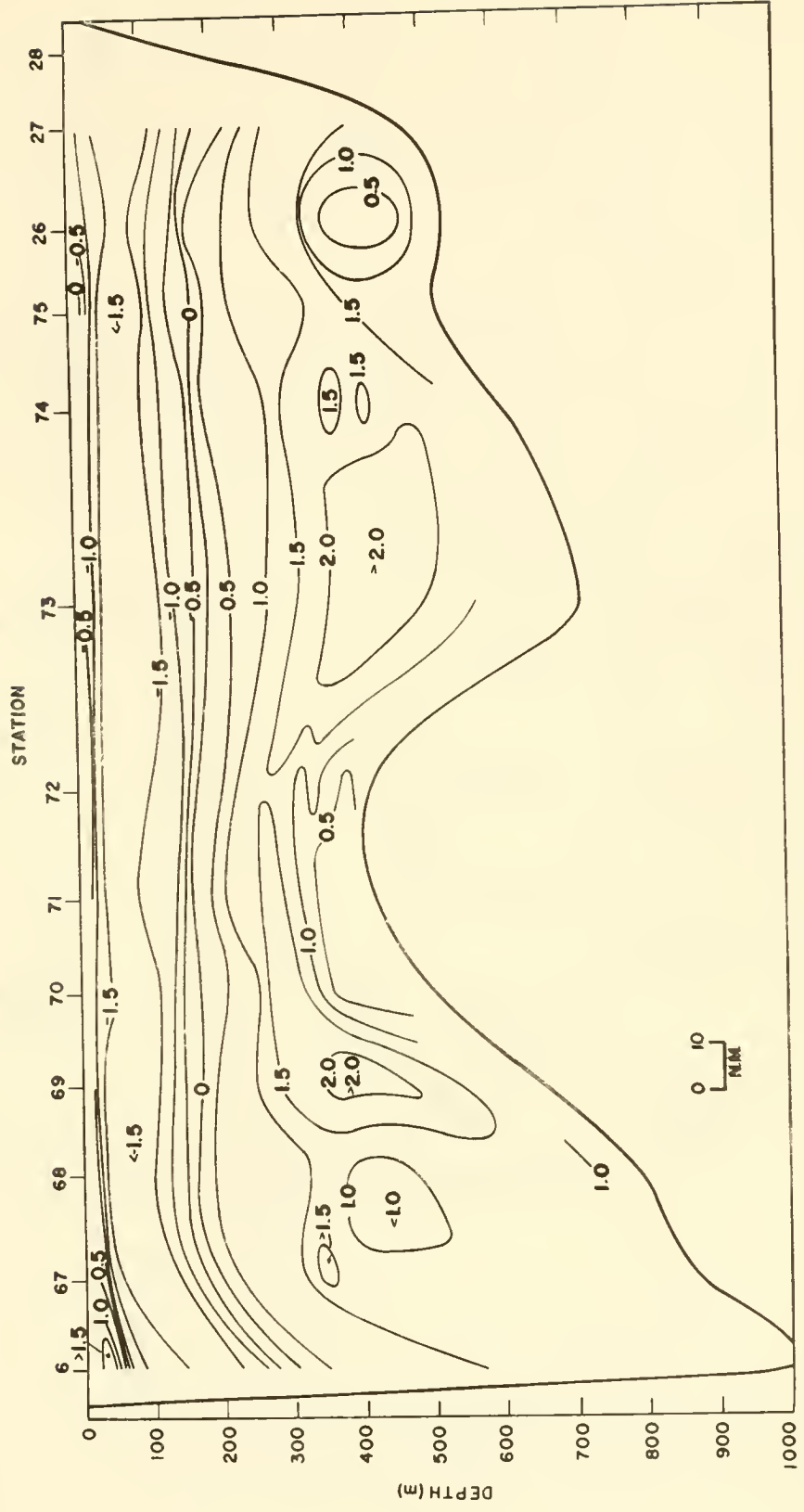


FIGURE 7. Vertical distribution of temperature; section F.

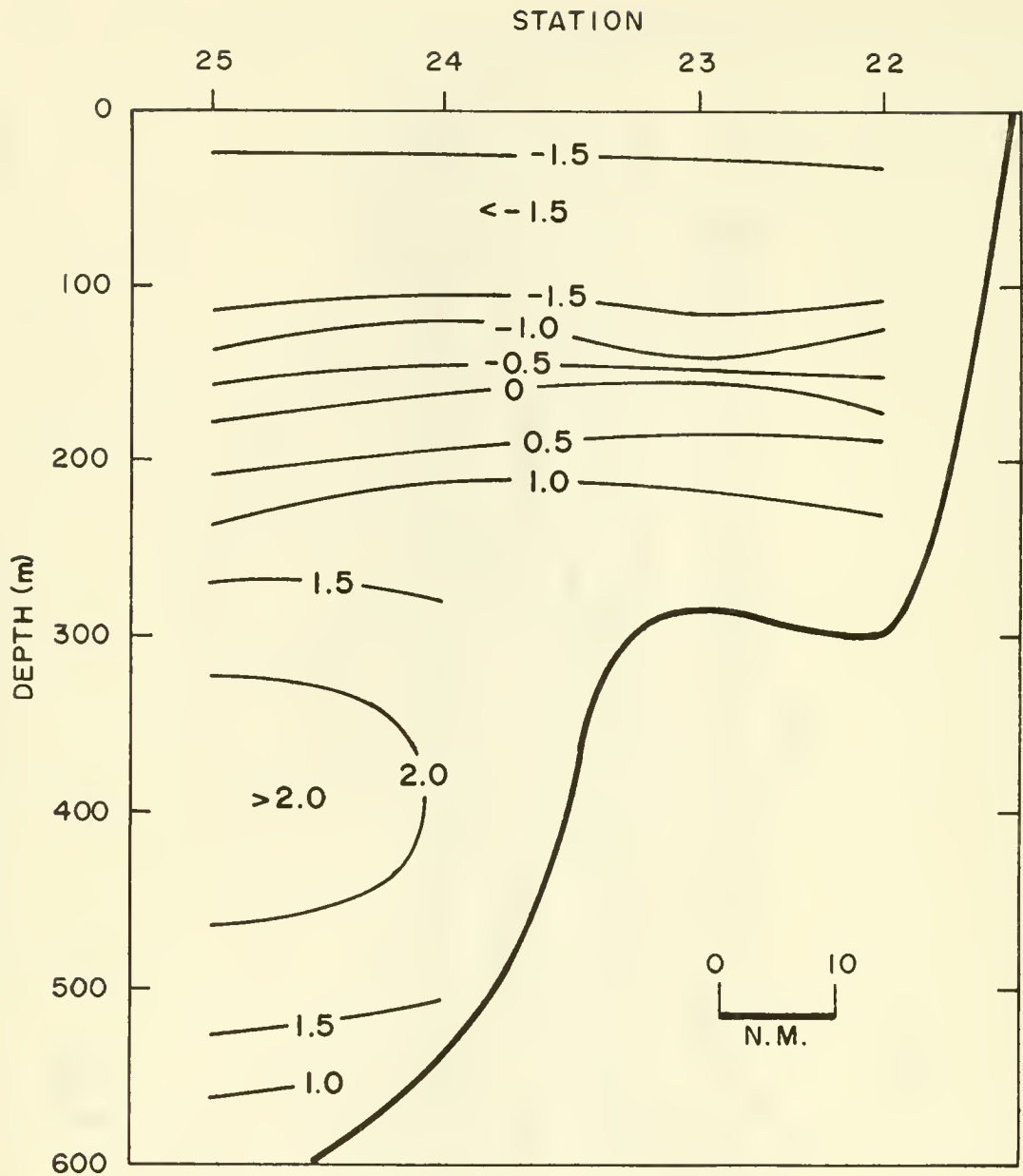


FIGURE 8. Vertical distribution of temperature; section G.

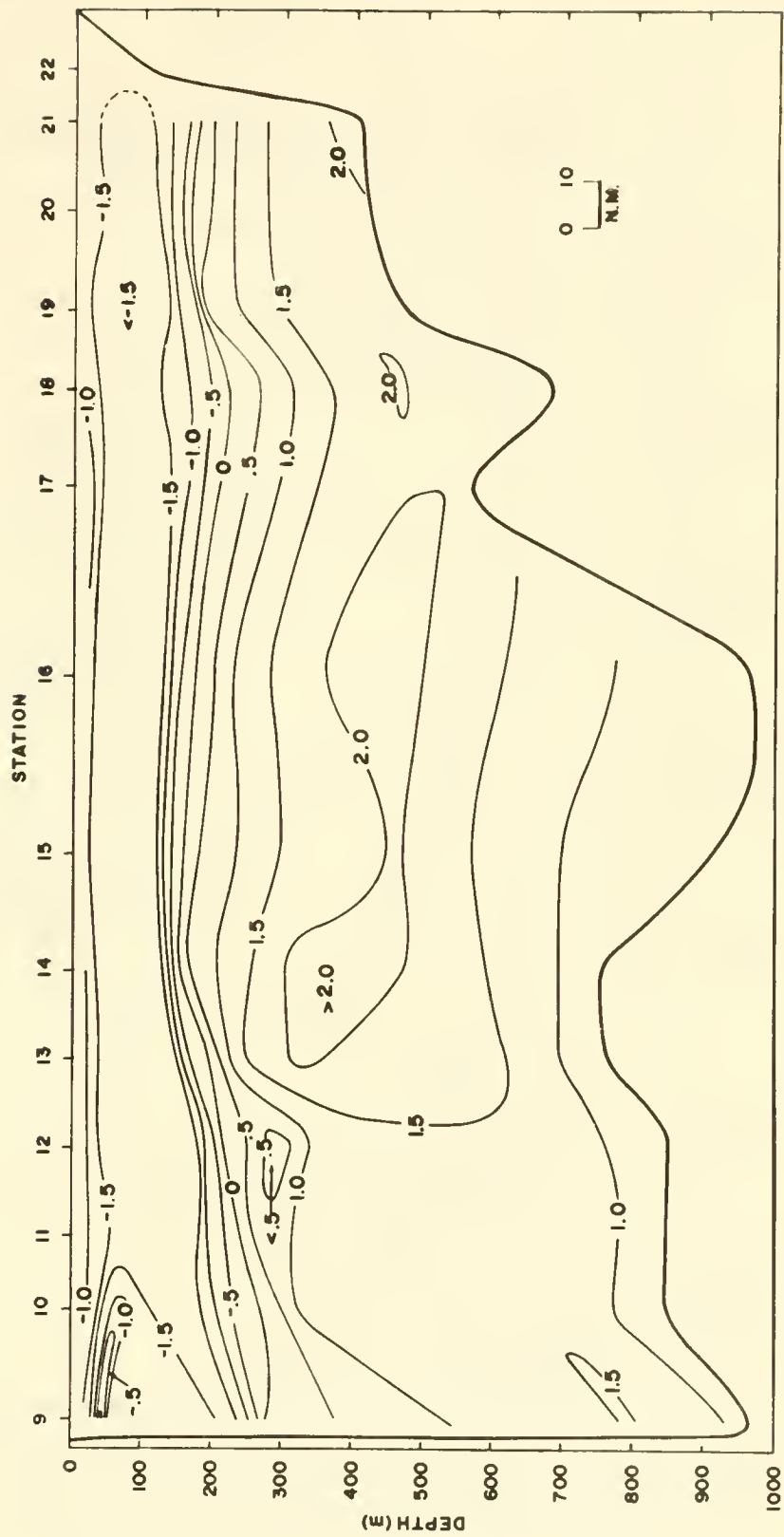


FIGURE 9. Vertical distribution of temperature; section H.

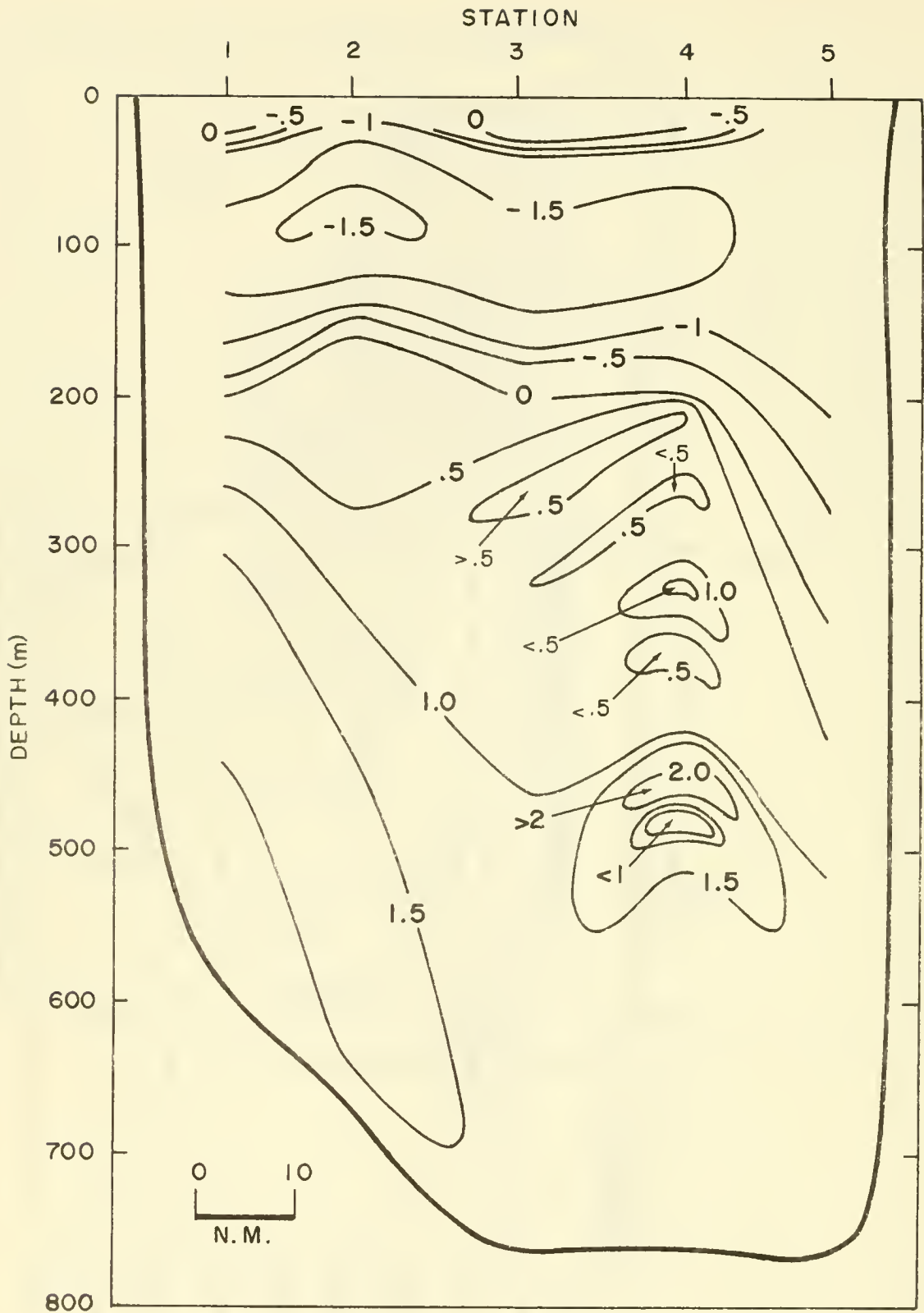


FIGURE 10. Vertical distribution of temperature; section I.

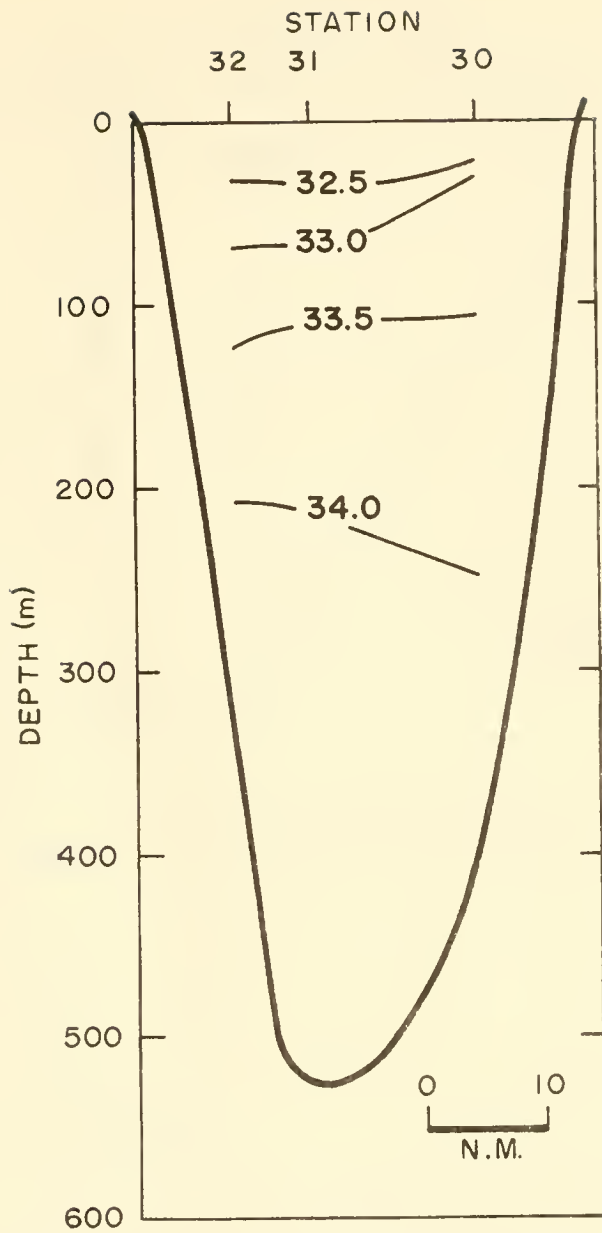


FIGURE 11. Vertical distribution of salinity; section A.

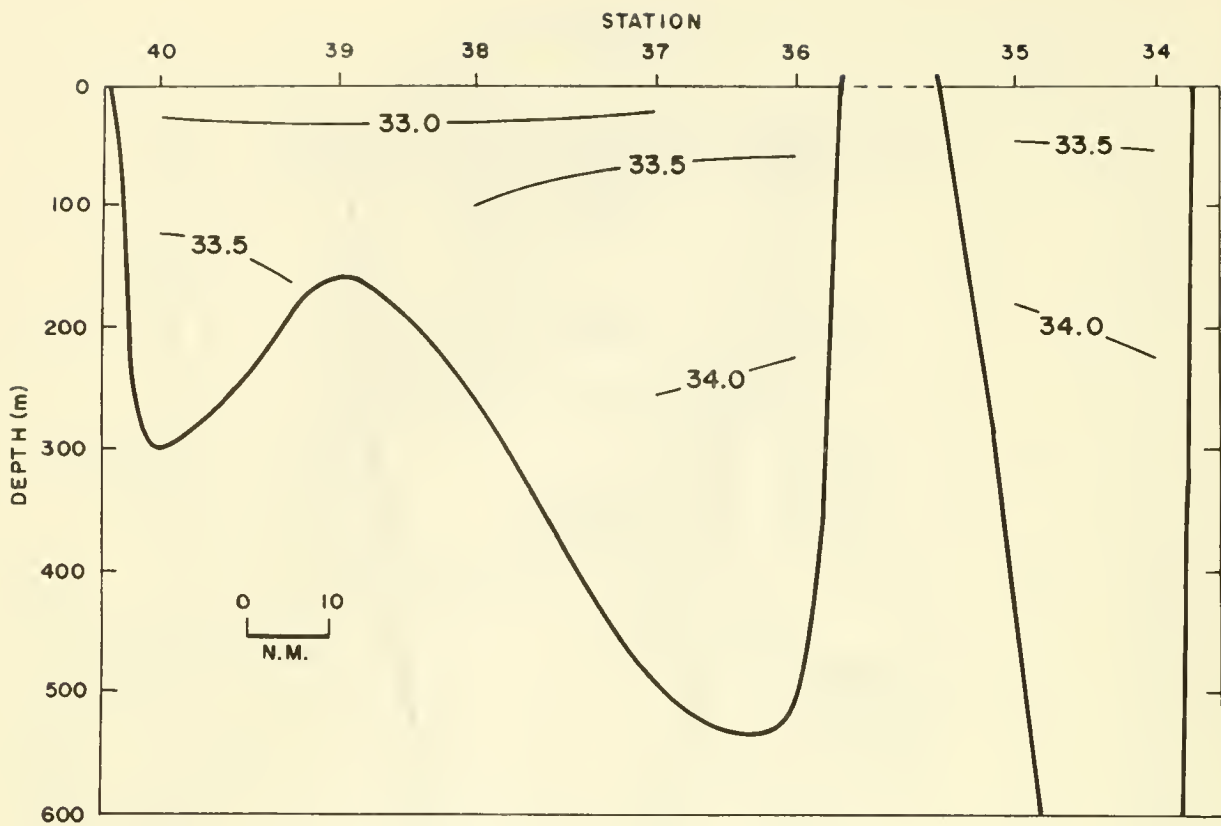


FIGURE 12. Vertical distribution of salinity; section B.

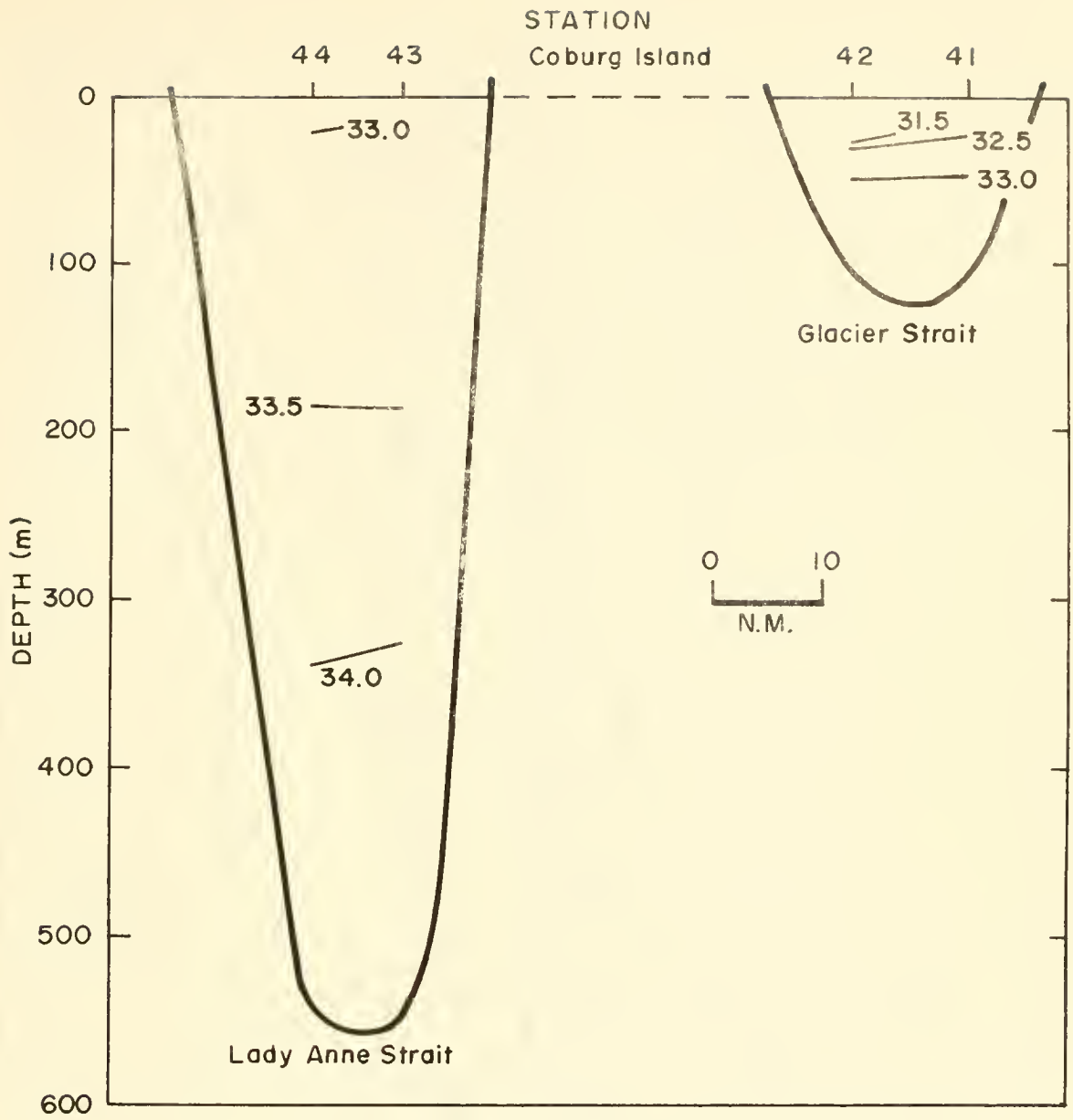


FIGURE 13. Vertical distribution of salinity; section C.

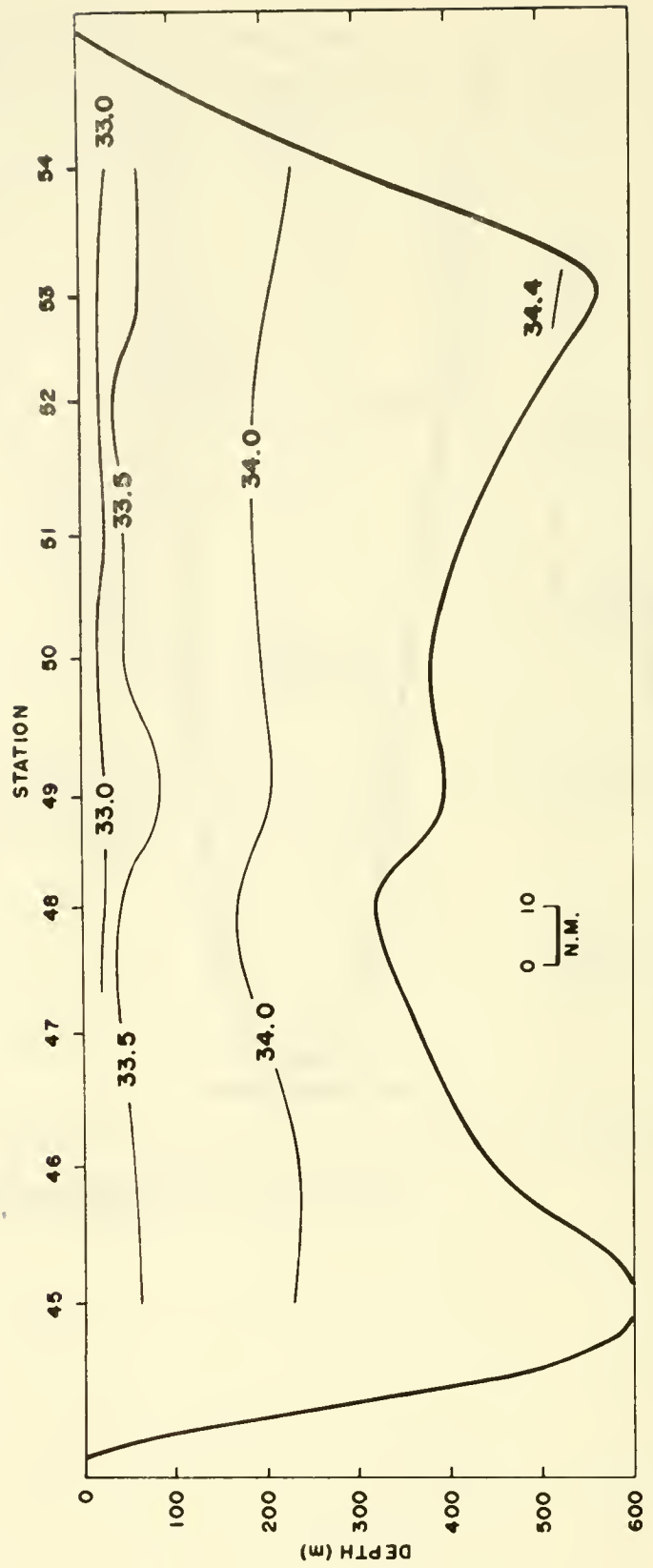


FIGURE 14. Vertical distribution of salinity; section D.

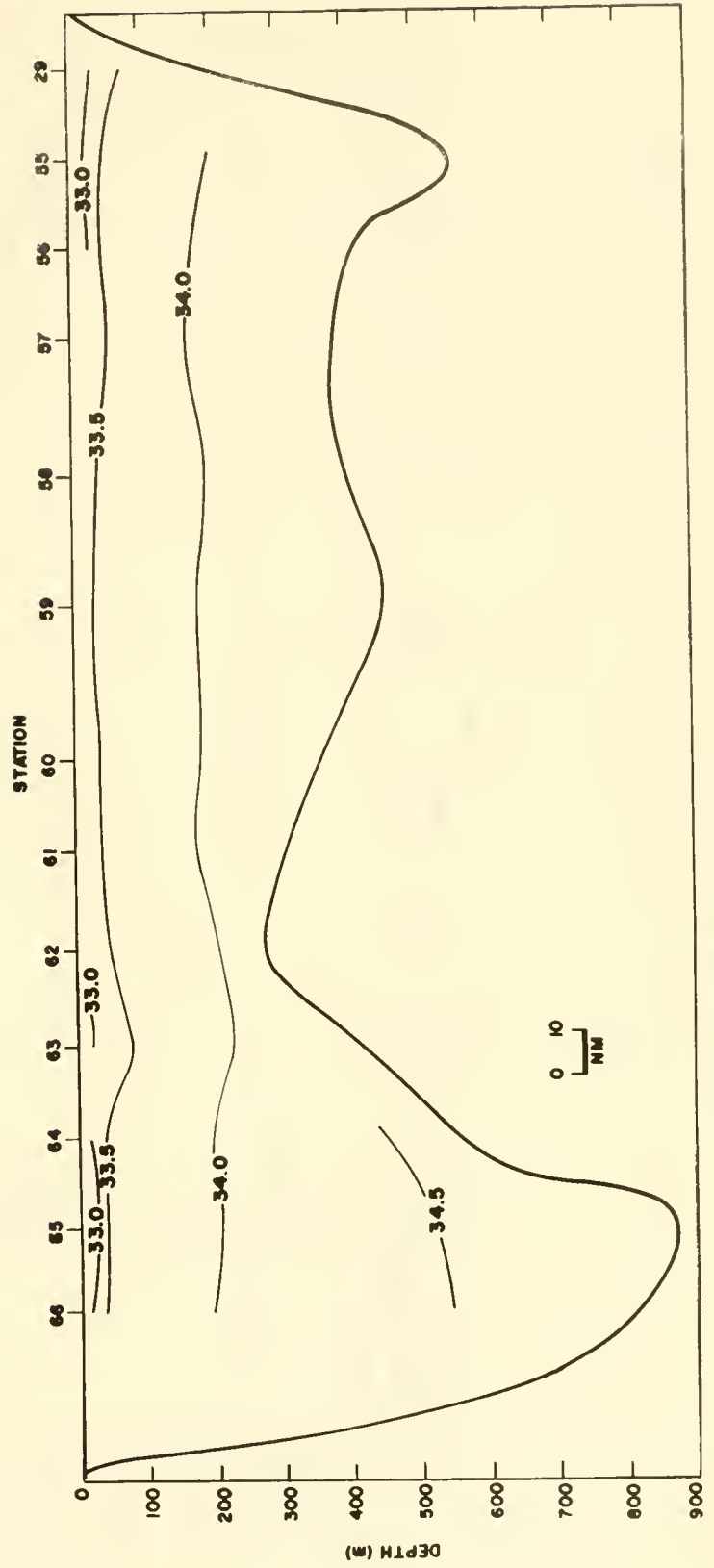


FIGURE 15. Vertical distribution of salinity; section E.

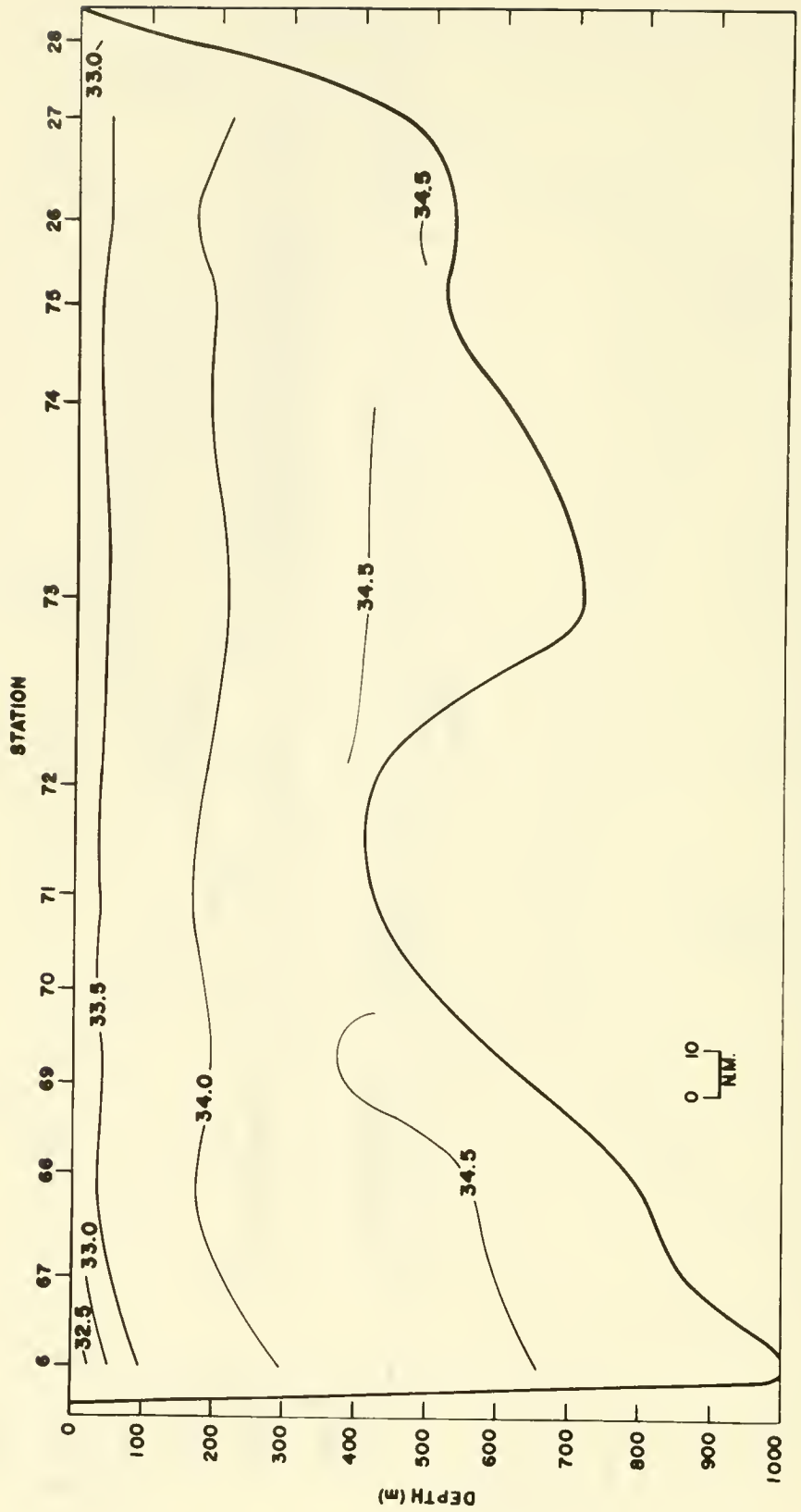


FIGURE 16. Vertical distribution of salinity; section F.

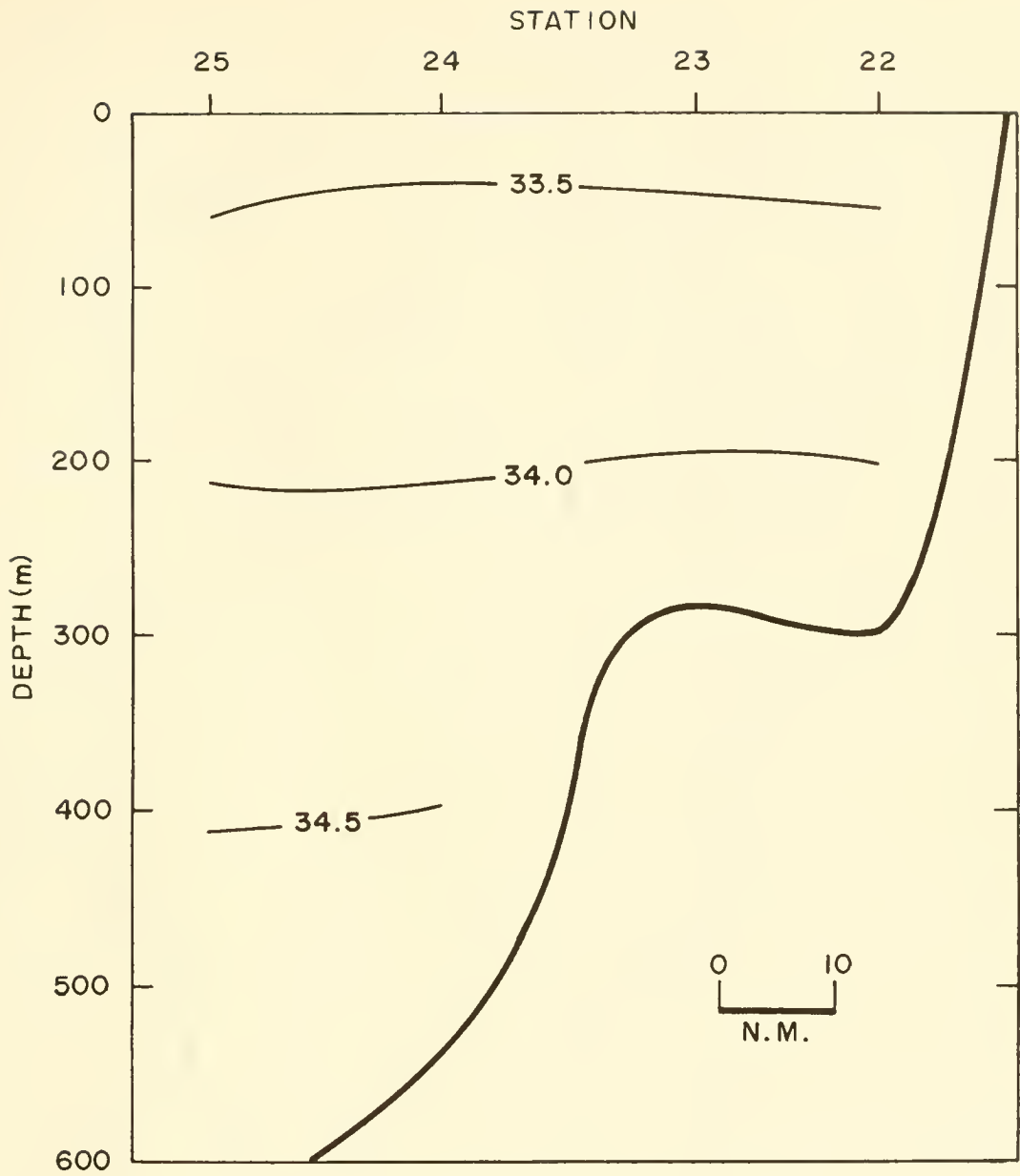


FIGURE 17. Vertical distribution of salinity; section G.

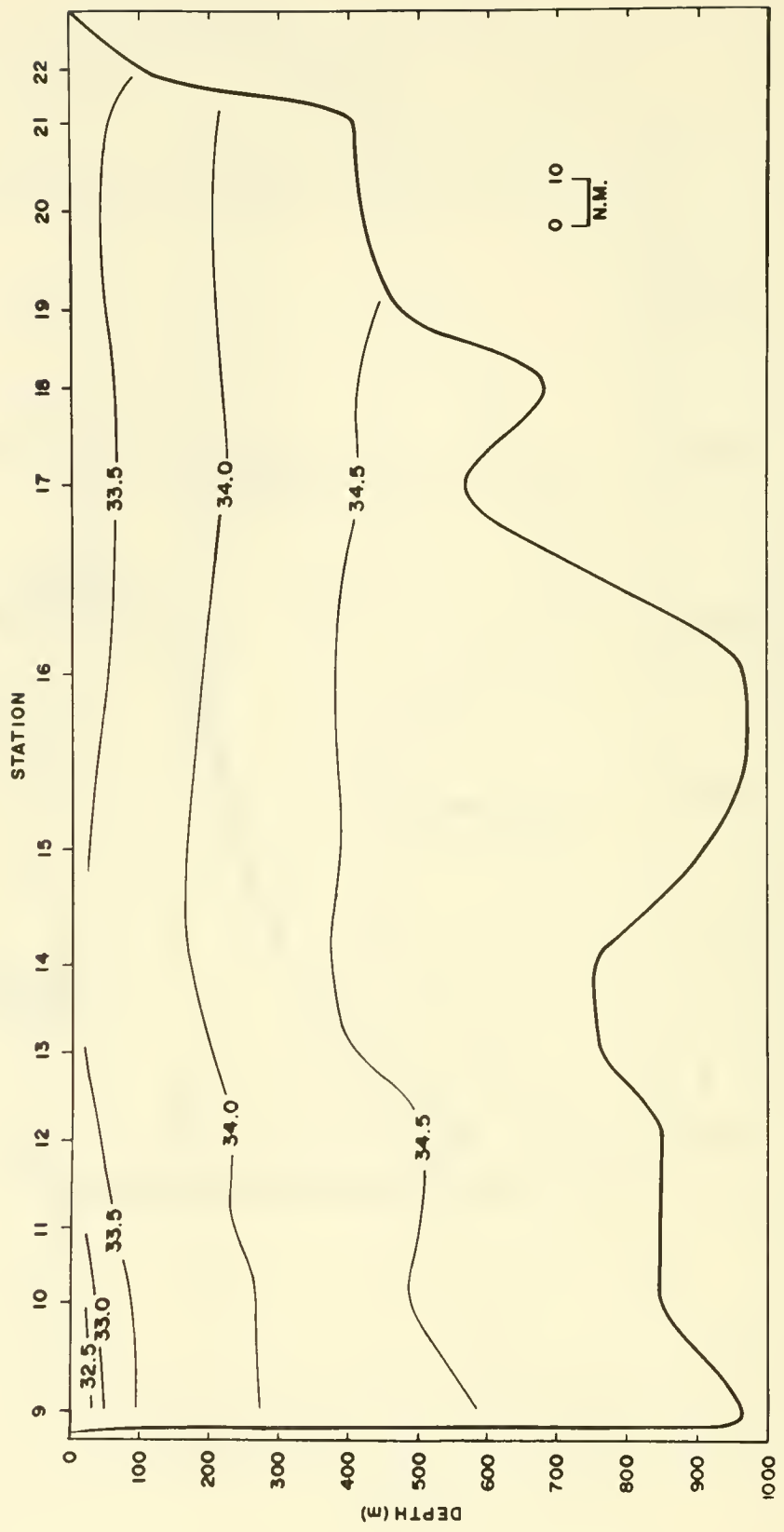


FIGURE 18. Vertical distribution of salinity; section H.

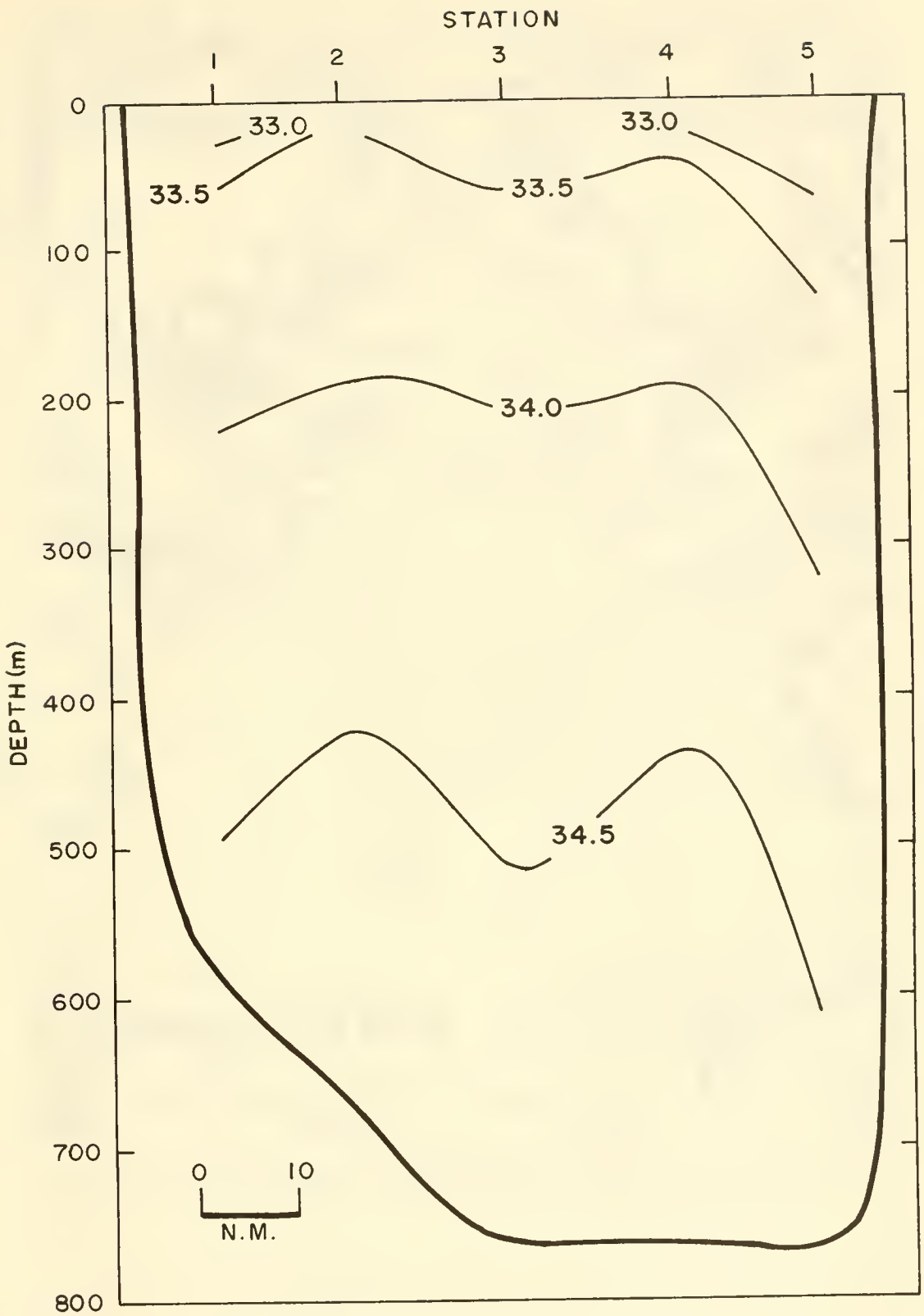


FIGURE 19. Vertical distribution of salinity; section I.

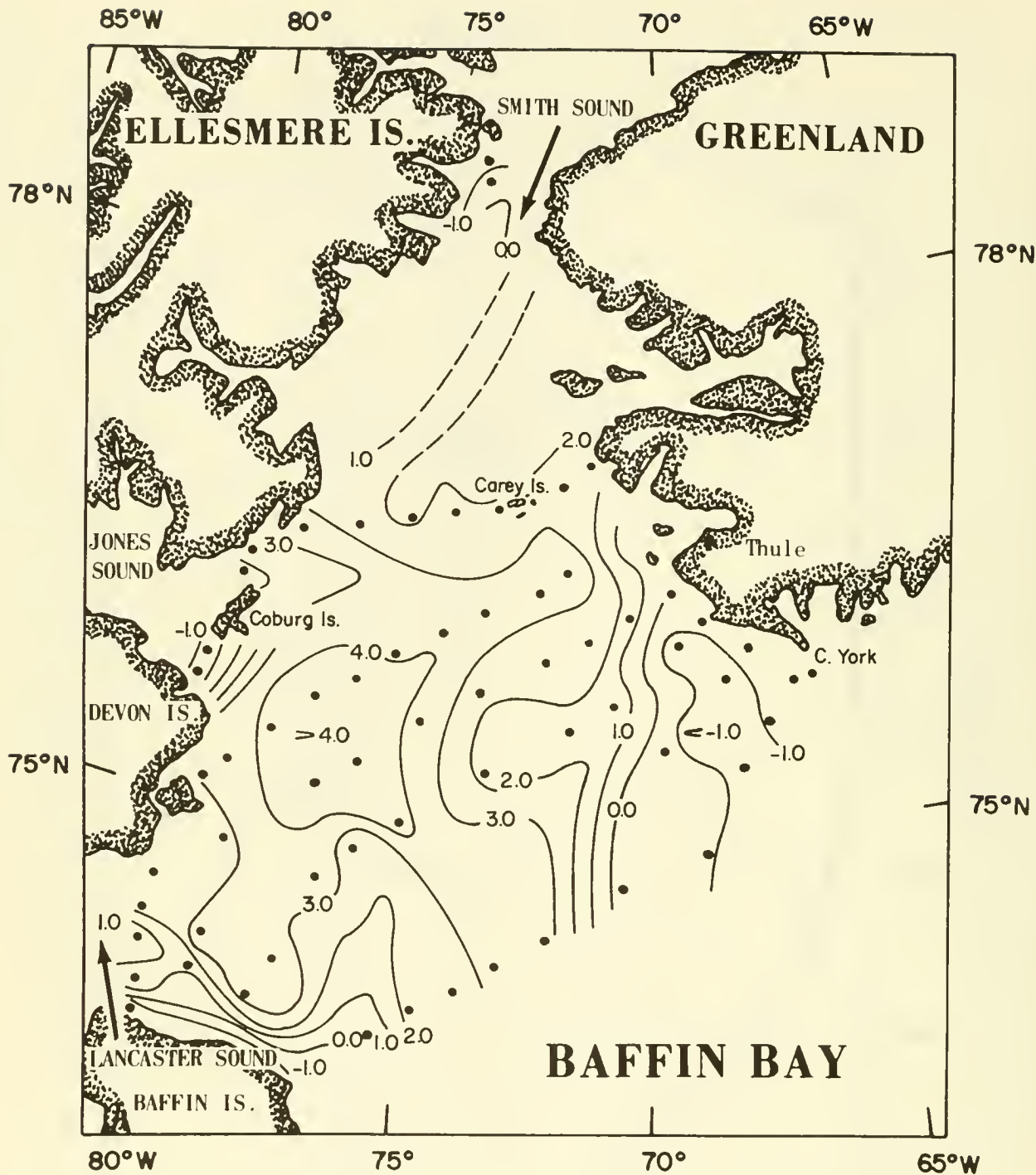


FIGURE 20. Horizontal distribution of temperature at 10 m. depth. Contour interval = 1°C.

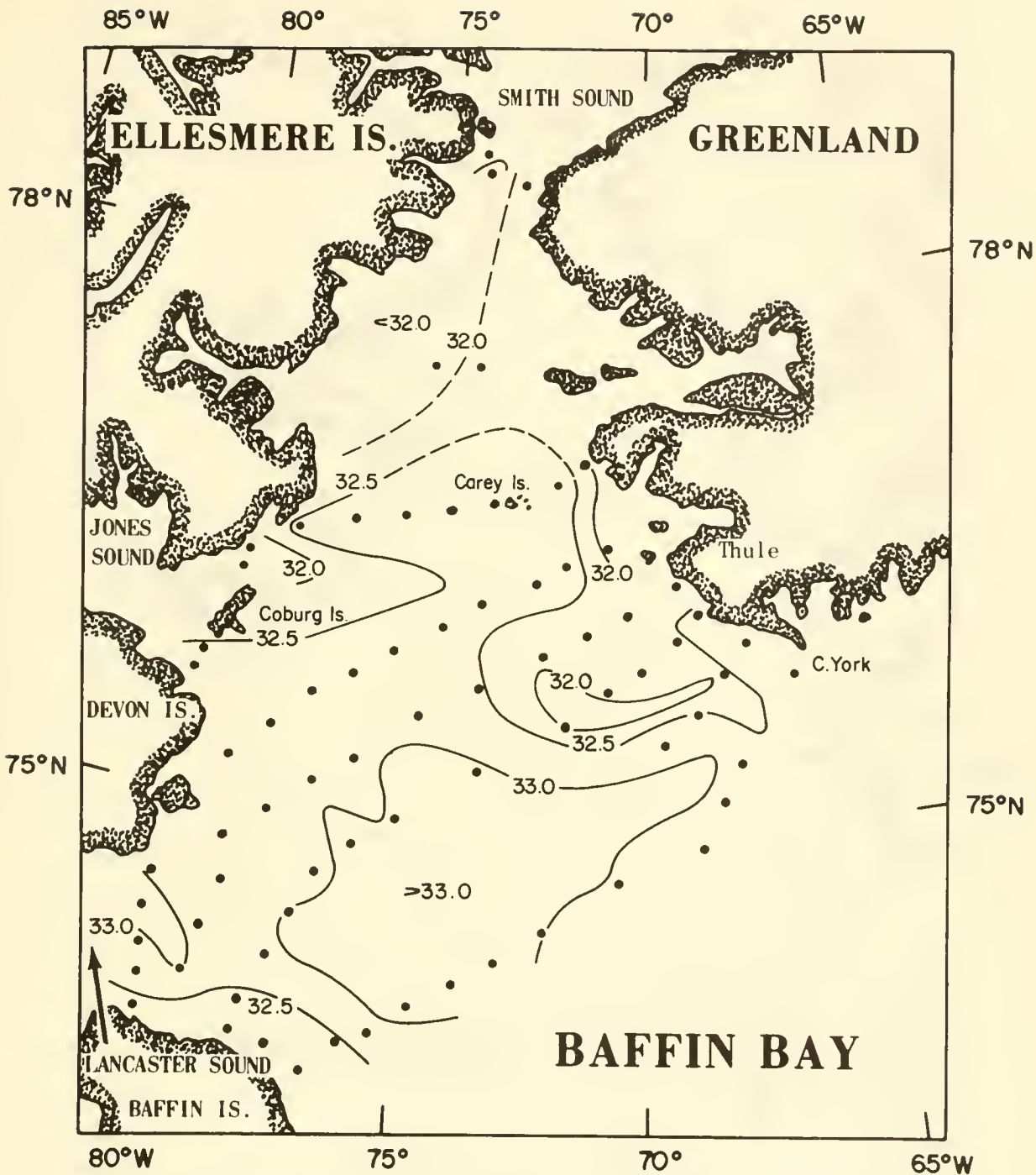


FIGURE 21. Horizontal distribution of salinity at 10 m. depth. Contour interval = 0.5‰

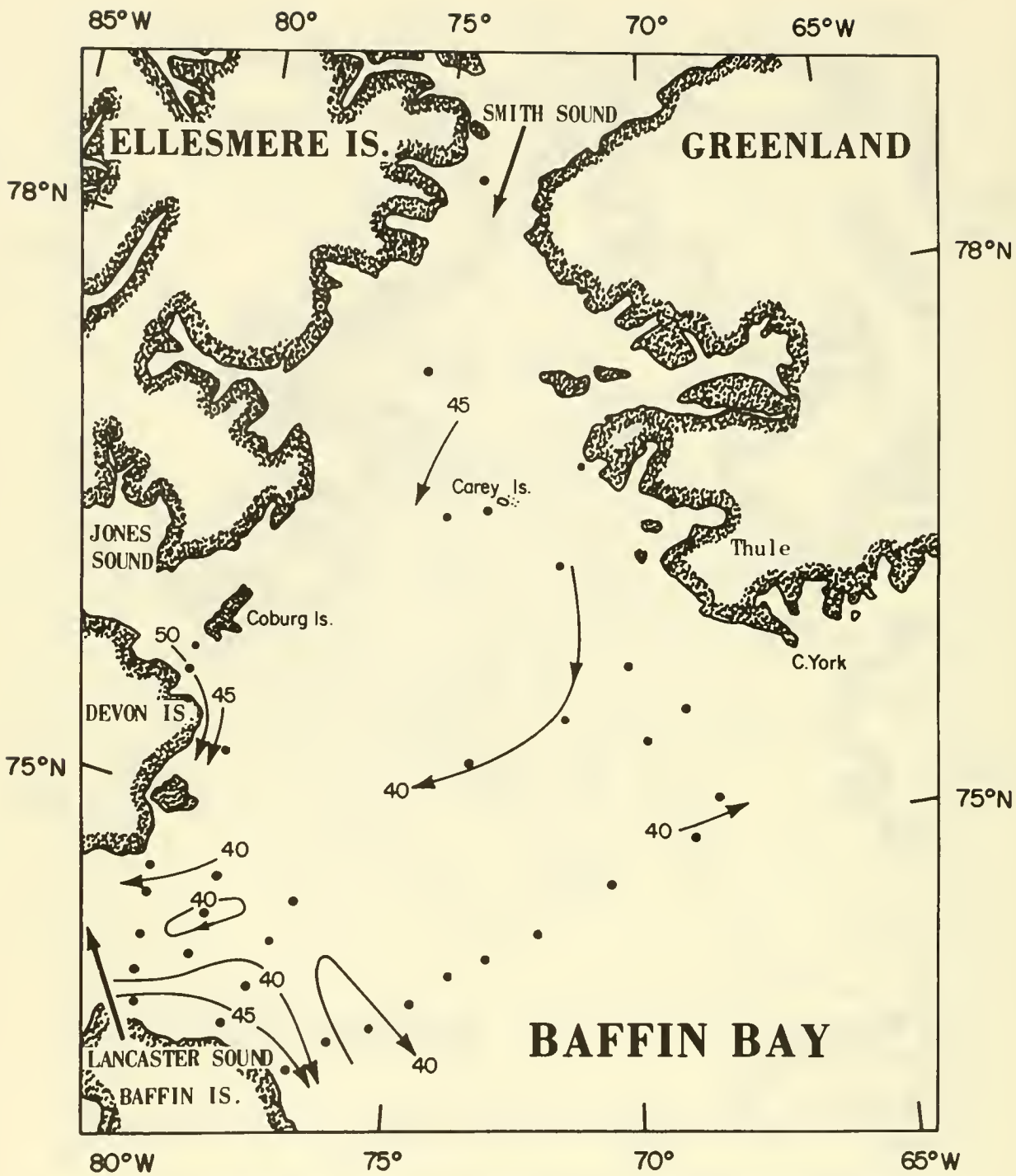


FIGURE 22. Dynamic depth anomaly at the surface relative to 500 db. Contour interval = 5 dyn. cm.

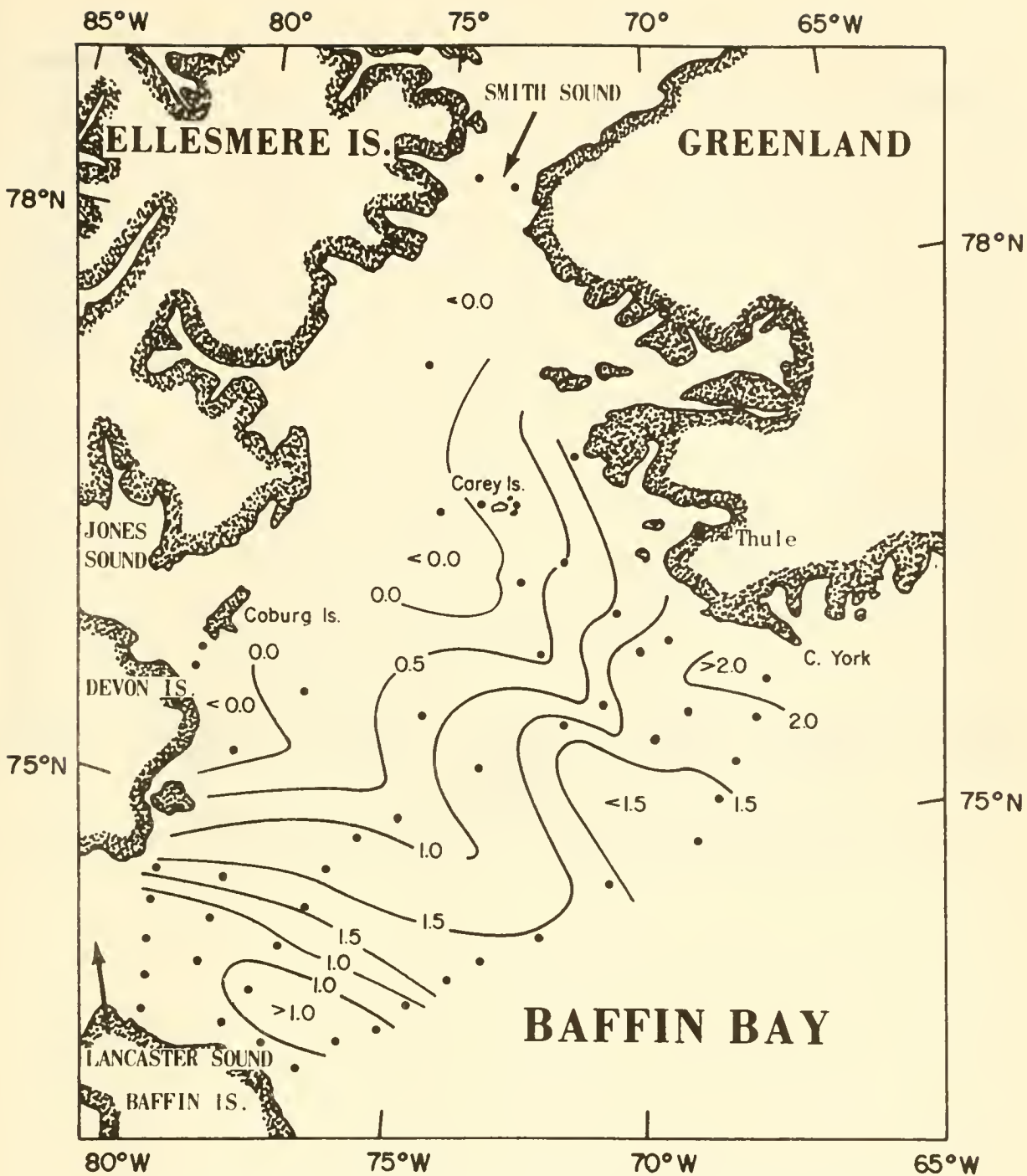


FIGURE 23. Variation of temperature on the 27.5 sigma-t surface. Contour interval = 0.5°C.

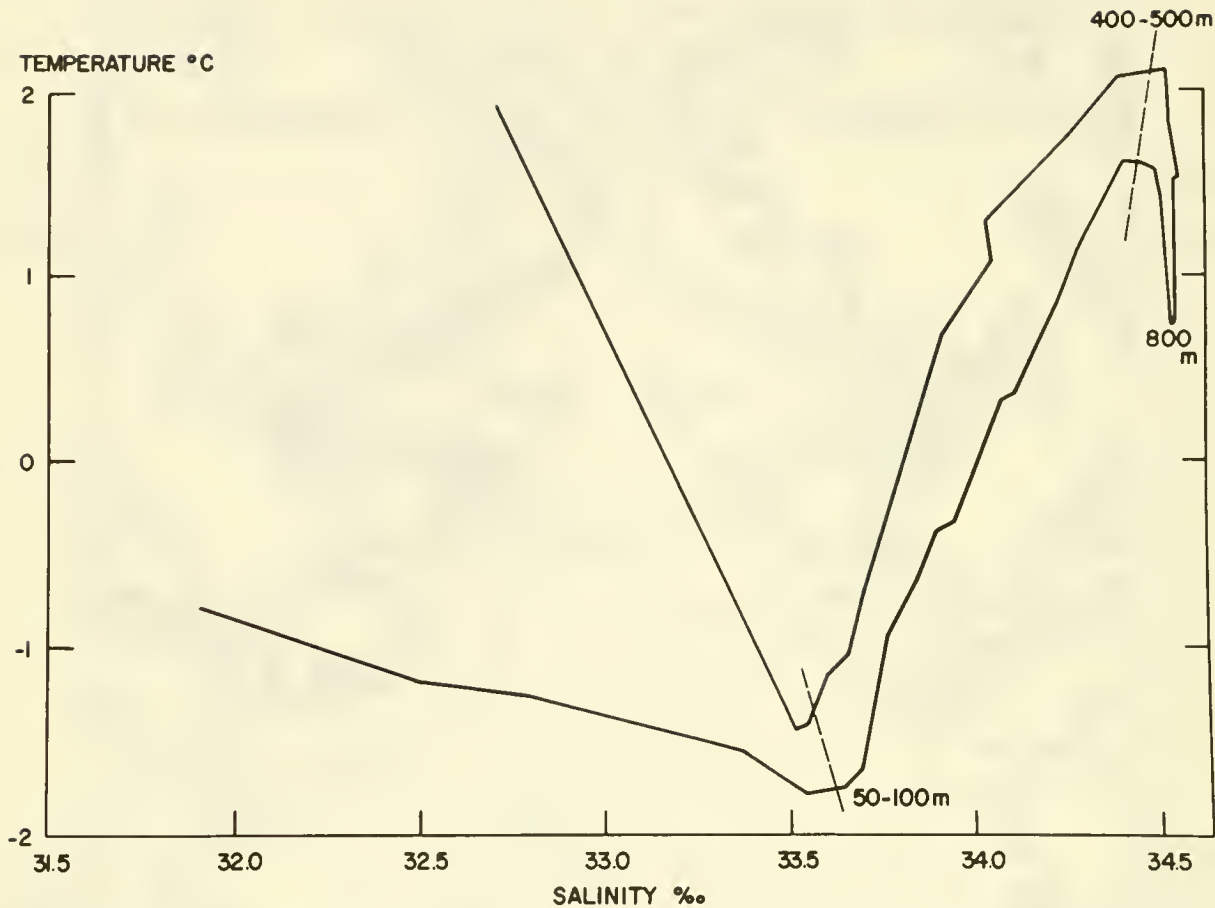


FIGURE 24a. Temperature-Salinity envelope (Stations 16, 17, 19, 20, 22, 23, 25, 28, 29, N15, N19, N24, and N27)

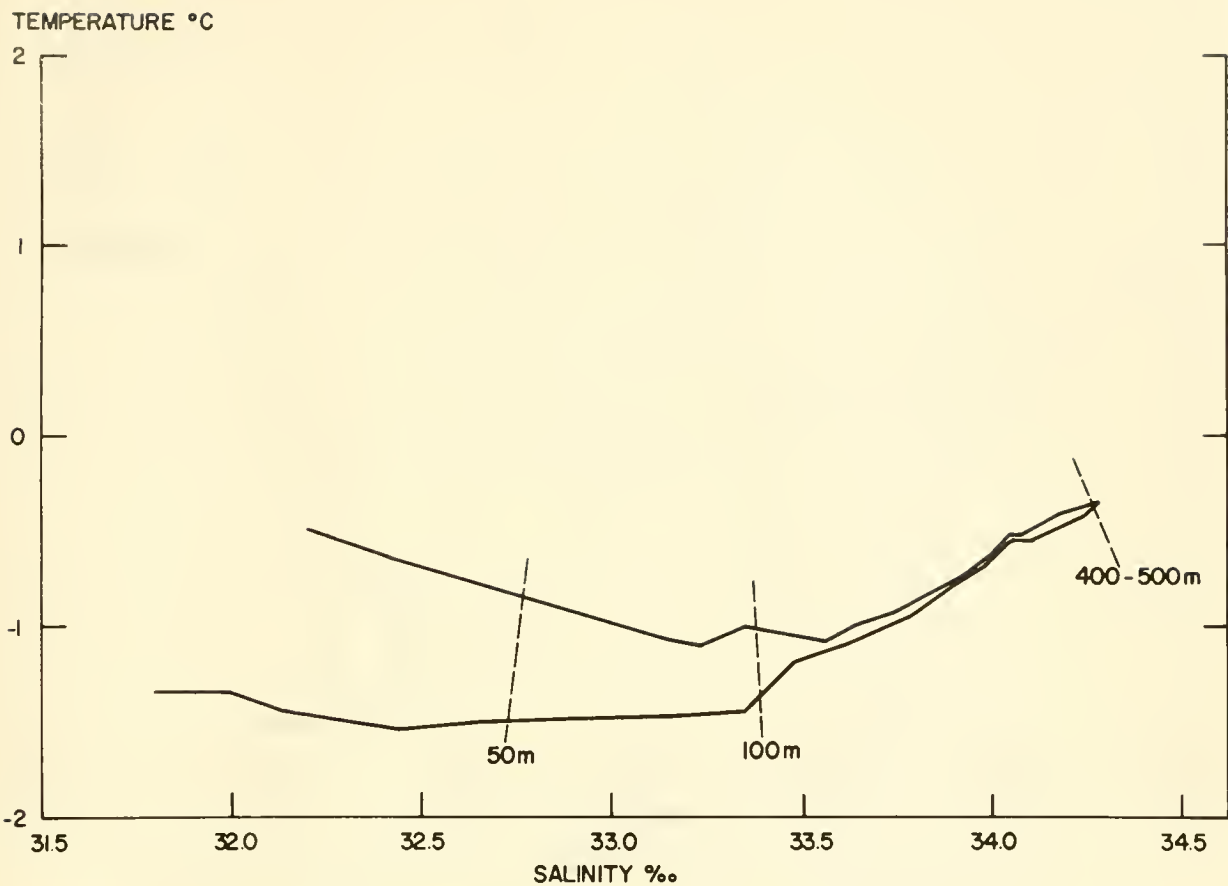


FIGURE 24b. Temperature-Salinity envelope (Stations 31, 32, and N30)

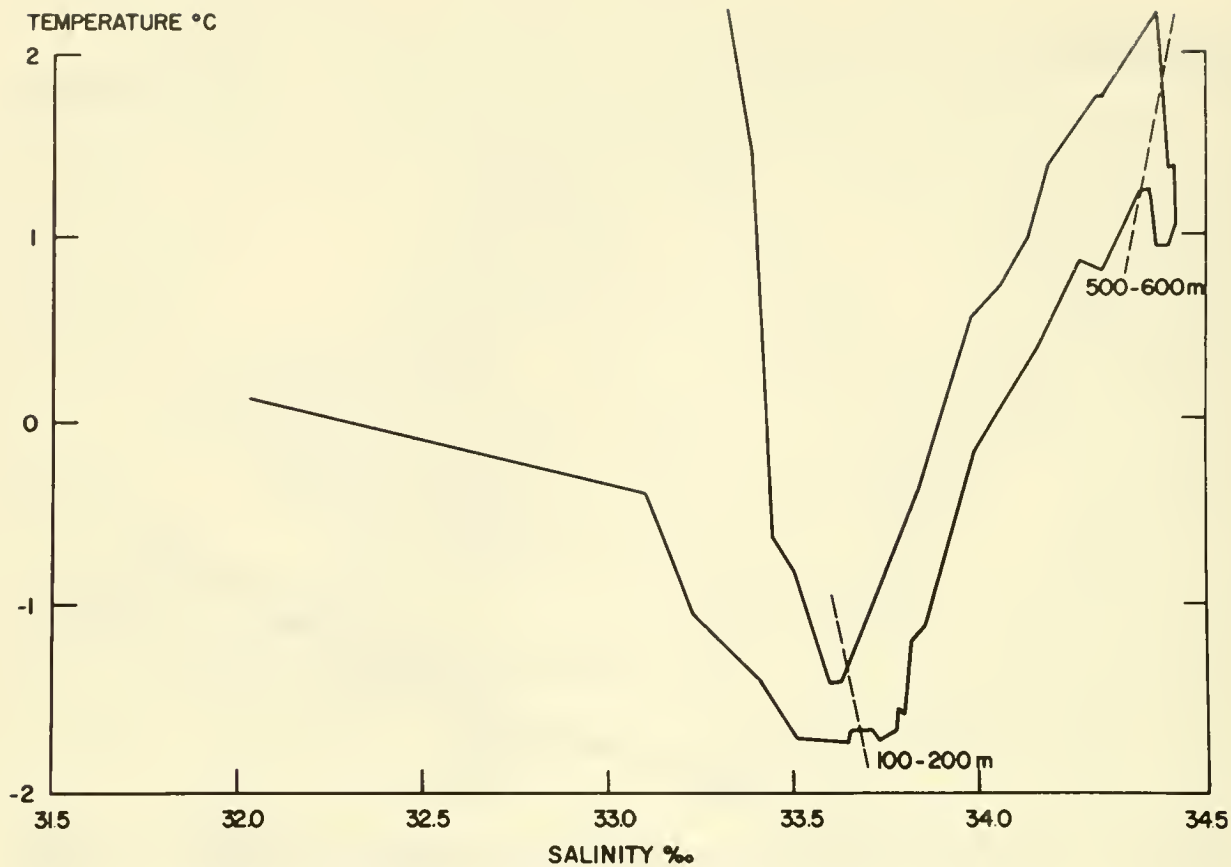


FIGURE 24c. Temperature-Salinity Envelope (Stations 9, 11, 64, 65, 67, 68, 69, N8, and N11)

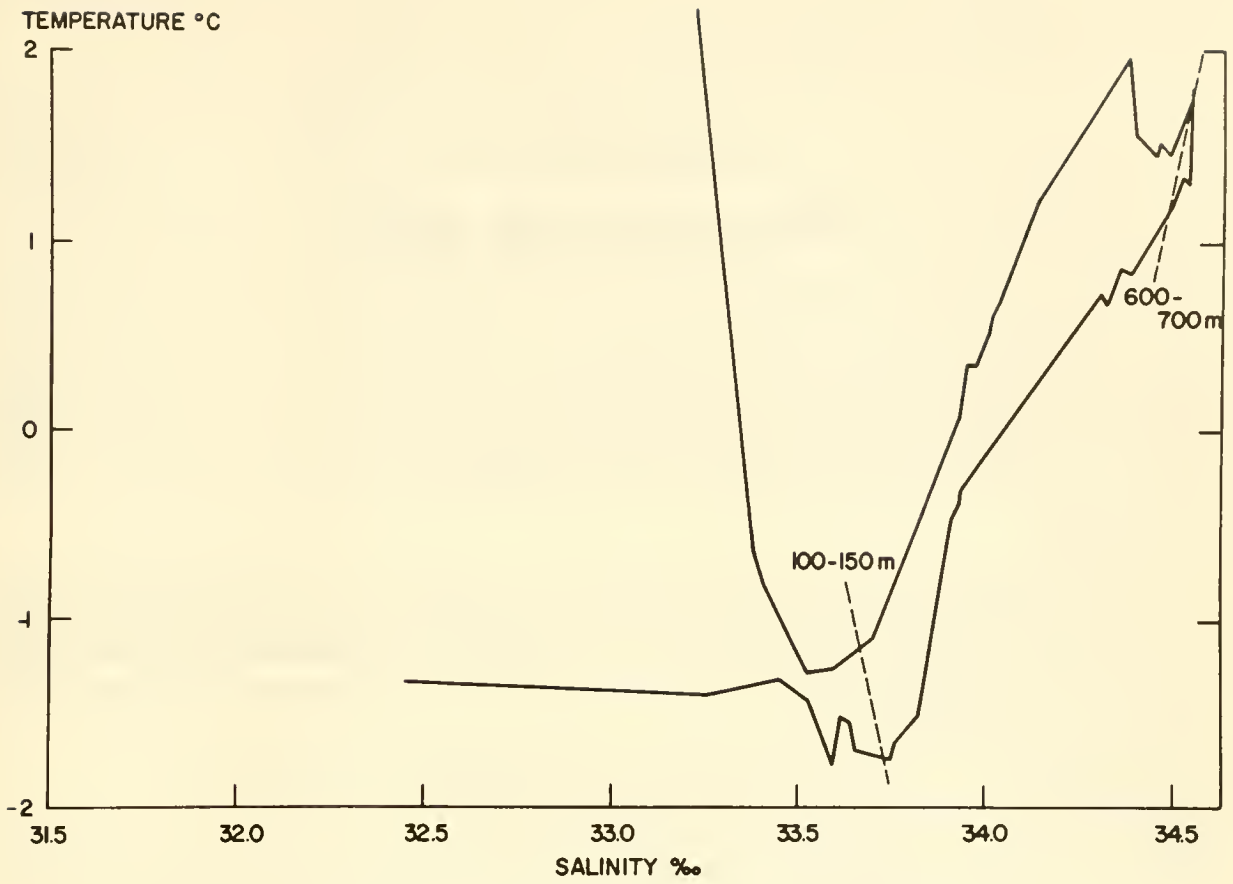


FIGURE 24d. Temperature-Salinity envelope (Stations 2, 4, N1, N3, and N5)

APPENDIX A

OCEANOGRAPHIC DATA

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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 levls. 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^{-3} 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 μ g-at/l.	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total-P μ g-at/l.	Total phosphorous in microgram-atoms per liter entered to hundredths.
NO ₂ -N μ g-at/l.	Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO ₃ -N μ g-at/l.	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si μ 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 ° 1/10	LONGITUDE ° 1/10	MARS DEN- SITY	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
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA					
318180		WE	74300N	075585W	260	45	07	24	183	1970	WE3	001	0658			00	0	X		02	8	8	0001	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
COLOR CODE	TRANS. SM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																		
DT	SO	C4	SC3	L39	022	018	7																	
MESSAGE TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ 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							
		STD	0000	0225	2255	2633	0017052	0000	14570															
183	085	0000	0225	2255	2633				14570															
		STD	0010	0225	2255	2633	0017055	0017	14572															
183	085	0010	0225	2255	2633				14572															
		STD	0020	0225	2256	2634	0016986	0034	14573															
183	085	0020	0225	2256	2634				14573															
		STD	0030	0020	3310	2659	0014592	0049	14481															
183	085	0030	0020	3310	2659				14481															
		STD	0050	-0125	3340	2689	0011720	0076	14421															
183	085	0050	-0125	3340	2689				14421															
		STD	0075	-0170	3357	2704	0010277	0103	14406															
183	085	0075	-0170	3357	2704				14406															
		STD	0100	-0178	3358	2705	0010167	0129	14407															
183	085	0100	-0178	3358	2705				14407															
		STD	0125	-0175	3358	2705	0010150	0154	14412															
183	085	0125	-0175	3358	2705				14412															
		STD	0150	-0124	3367	2710	0009590	0179	14442															
183	085	0150	-0124	3367	2710				14442															
		STD	0175	-0085	3376	2716			14465															
183	085	0175	-0085	3376	2716				14465															
		STD	0200	0000	3389	2723	0000442	0224	14511															
183	085	0200	0000	3389	2723				14511															
		STD	0225	0000	3390	2723			14511															
183	085	0225	0000	3390	2723				14511															
		STD	0250	0050	3405	2731	0007759	0264	14562															
183	085	0250	0050	3405	2731				14562															
		STD	0300	0182	3428	2743	0006697	0301	14614															
183	085	0300	0182	3428	2743				14614															
		STD	0400	0158	3443	2754	0005737	0363	14640															
183	085	0400	0158	3443	2754				14640															
		STD	0500	0130	3448	2763	0004848	0410	14627															
183	085	0500	0130	3448	2763				14627															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSQEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
313100		WT	74150N	000025W	261	40	07	24	202	1970	WLS	002	0695			UU	U	X		02	8	8	0002

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCI		DRY BULB	WET BULB			
CT	50	C4	SC3	139	C22	U18	7		

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\frac{\sigma}{\rho}$ DYN. M ² 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	SI O ₄ -S µg - dl/l	pH	SEC
		STD	0000	0200	3234	2586	0021472	0000	14549								
202		OBS	0000	0200	32340	2586			14549								
		STD	0010	0000	3319	2667	0013816	0017	14409								
202		OBS	0010	0000	33190	2667			14409								
		STD	0020	-0134	3353	2699	0010710	0029	14414								
202		OBS	0020	-0134	33530	2699			14414								
		STD	0030	-0145	3358	2704	0010293	0040	14411								
202		OBS	0030	-0145	33580	2704			14411								
		STD	0050	-0150	3360	2712	0009484	0060	14409								
202		OBS	0050	-0150	33600	2712			14409								
		STD	0075	-0145	3374	2717	0009037	0065	14420								
202		OBS	0075	-0145	33740	2717			14420								
		STD	0100	-0100	3376	2719	0006817	0105	14415								
202		OBS	0100	-0100	33760	2719			14415								
		STD	0125	-0150	3383	2724	0006311	0127	14428								
202		OBS	0125	-0150	33830	2724			14420								
		STD	0150	-0032	3392	2727	0008059	0147	14488								
202		OBS	0150	-0032	33920	2727			14488								
		STD	0175	0035	33950	2726			14523								
202		OBS	0175	0035	33950	2726			14520								
		STD	0200	0029	3404	2734	0007459	0186	14520								
202		OBS	0200	0029	34040	2734			14520								
		STD	0225	0040	34090	2737			14536								
202		OBS	0225	0040	34090	2737			14536								
		STD	0250	0041	3415	2742	0006691	0221	14541								
202		OBS	0250	0041	34150	2742			14541								
		STD	0300	0067	3425	2748	0006092	0253	14503								
202		OBS	0300	0067	34250	2748			14503								
		STD	0400	0120	3444	2760	0005044	0309	14606								
202		OBS	0400	0120	34440	2760			14606								
		STD	0500	0100	3453	2764	0004773	0358	14645								
202		OBS	0500	0100	34530	2764			14645								
		STD	0600	0175	3455	2765	0004721	0405	14665								
202		OBS	0600	0175	34550	2765			14665								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	ORIG. INSTR.	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		
CTRY CODE	ID. NO.					10"	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318180		WE	74078N	080000W		2c1	40	07	24	220	1970	WE3	003	0005		00	0	X		02	8	8	0003

WATER			WIND			BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	50	33	303			139	023	011	7		

MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ 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	SiO ₂ DEPTH
220		STD	0000	-0010	3256	2617	0018592	0000	14454								
		OBS	0000	-0010	32560	2617			14454								
		STD	0010	0060	3267	2637	0016602	0017	14501								
220		OBS	0010	0060	32670	2637			14501								
		STD	0020	0180	3312	2650	0015301	0033	14551								
220		OBS	0020	0180	33120	2650			14551								
		STD	0030	0218	3330	2660	0014283	0048	14572								
220		OBS	0030	0218	33300	2660			14572								
		STD	0050	-0134	3346	2694	0011239	0074	14418								
220		OBS	0050	-0134	33460	2694			14418								
		STD	0075	-0148	3356	2702	0010417	0101	14416								
220		OBS	0075	-0148	33560	2702			14416								
		STD	0100	-0150	3367	2711	0009543	0126	14421								
220		OBS	0100	-0150	33670	2711			14421								
		STD	0125	-0154	3375	2718	0008904	0149	14425								
220		OBS	0125	-0154	33750	2718			14425								
		STD	0150	-0135	3378	2720	0008720	0171	14438								
220		OBS	0150	-0135	33780	2720			14438								
		STD	0200	-0104	33880	2727			14458								
220		OBS	0200	-0104	33880	2727			14458								
		STD	0200	-0005	3397	2730	0007809	0212	14509								
220		OBS	0200	-0005	33970	2730			14509								
		STD	0225	0044	34040	2733			14537								
220		OBS	0225	0044	34040	2733			14537								
		STD	0250	0083	3410	2735	0007332	0250	14559								
220		OBS	0250	0083	34100	2735			14559								
		STD	0300	0075	3422	2746	0006377	0284	14566								
220		OBS	0300	0075	34220	2746			14566								
		STD	0400	0077	3438	2758	0005186	0342	14586								
220		OBS	0400	0077	34380	2758			14586								
		STD	0500	0115	3450	2766	0004577	0391	14621								
220		OBS	0500	0115	34500	2766			14621								
		STD	0600	0132	3452	2766	0004581	0437	14645								
220		OBS	0600	0132	34520	2766			14645								
		STD	0700	0124	3454	2768	0004397	0481	14659								
220		OBS	0700	0124	34540	2768			14659								

REFERENCE CTRY CODE	SHIP NO.	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSON 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	
51318U	AE	7355N	07956W	260	35	07	23	017	1970	009	009	0815	00	0	X		43	8	8			0004

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C			NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB	VIS. CODE		
DT	50	33	SG3	139	025	011	7		

MESSAGE TIME HR 1/10	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 ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SIO ₄ -S µg - dl/l	pH	SEC
		STL	0000	0125	3230	2588	0021255	0000	14512								
017		OBS	0000	0125	3230	2588			14512								
		STO	0010	0150	3267	2640	0018630	0019	14533								
017		OBS	0010	0150	3267	2640			14533								
		STO	0020	0147	3300	2693	0019007	0037	14535								
017		OBS	0020	0147	3300	2693			14535								
		STL	0030	-0100	3344	2691	0011508	0051	14430								
017		OBS	0030	-0100	3344	2691			14430								
		STC	0050	-0140	3354	2700	0010600	0073	14416								
017		OBS	0050	-0140	3354	2700			14416								
		STL	0075	-0127	3363	2708	0009905	0098	14423								
017		OBS	0075	-0127	3363	2708			14423								
		STL	0100	-0163	3366	2711	0009574	0123	14412								
017		OBS	0100	-0169	3366	2711			14412								
		STC	0125	-0175	3375	2718	0006051	0146	14415								
017		OBS	0125	-0175	3375	2718			14415								
		STC	0150	-0110	3381	2722	0006553	0168	14447								
017		OBS	0150	-0118	3381	2722			14447								
017		OBS	0175	-0062	3388	2725			14478								
		STC	0200	0061	3402	2730	0007601	0208	14540								
017		OBS	0200	0061	3402	2730			14540								
017		OBS	0225	0070	3406	2733			14549								
		STO	0250	0029	3410	2739	0006997	0245	14535								
017		OBS	0250	0029	3410	2739			14535								
		STL	0300	0082	3428	2750	0009970	0276	14570								
017		OBS	0300	0082	3428	2750			14570								
		STC	0400	0060	3434	2756	0005410	0335	14580								
017		OBS	0400	0060	3434	2756			14580								
		STO	0500	0152	3447	2761	0009092	0387	14637								
017		OBS	0500	0152	3447	2761			14637								
		STC	0600	0130	3451	2765	0004695	0436	14647								
017		OBS	0600	0130	3451	2765			14647								
		STC	0700	0141	3455	2768	0004464	0482	14666								
017		OBS	0700	0141	3455	2768			14666								

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

31818U WC 75450N 000000W 261 20 07 25 035 1970 013 005 0823 00 0 X 11 X 9 0005

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			

01 20 22 202 129 017 000 y

MESSAGE TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	± Δ σ DY. 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	SIG C
		STC	0000	-0114	3235	2607	0019534	0000	14404								
035		OBS	0000	-0114	3235	2607			14404								
		STC	0010	-0113	3248	2614	0010703	0019	14390								
035		OBS	0010	-0113	3248	2614			14390								
		STC	0020	-0111	3253	2618	0010404	0037	14401								
035		OBS	0020	-0111	3253	2618			14401								
		STC	0030	-0117	3273	2635	0010840	0055	14403								
035		OBS	0030	-0117	3273	2635			14403								
		STC	0050	-0115	3294	2652	0015225	0007	14410								
035		OBS	0050	-0115	3294	2652			14410								
		STC	0075	-0140	3303	2659	0014501	0124	14413								
035		OBS	0075	-0140	3303	2659			14413								
		STL	0100	-0143	3324	2676	0012807	0150	14418								
035		OBS	0100	-0143	3324	2676			14418								
		STL	0125	-0138	3339	2686	0011715	0109	14427								
035		OBS	0125	-0138	3339	2686			14427								
		STC	0150	-0120	3361	2705	0010075	0210	14443								
035		OBS	0150	-0120	3361	2705			14443								
		OBS	0175	-0121	3368	2711			14447								
		STC	0200	-0107	3372	2714	0009214	0205	14459								
035		OBS	0200	-0107	3372	2714			14459								
035		OBS	0225	-0090	3377	2717			14471								
		STC	0250	-0082	3384	2723	0006411	0309	14480								
035		OBS	0250	-0082	3384	2723			14480								
		STC	0300	-0018	3397	2731	0007710	0349	14520								
035		OBS	0300	-0018	3397	2731			14520								
		STC	0400	0039	3415	2742	0006670	0421	14565								
035		OBS	0400	0039	3415	2742			14565								
		STC	0500	0094	3439	2758	0005240	0481	14610								
035		OBS	0500	0094	3439	2758			14610								
		STC	0600	0110	3445	2762	0004939	0532	14635								
035		OBS	0600	0110	3445	2762			14635								
		STC	0700	0166	3452	2764	0004902	0581	14677								
035		OBS	0700	0166	3452	2764			14677								

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'PLS	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	
310180		WE	73435N	078146W	260	07	25	078	1970	WE3	006	1000		00	0	X		28	X	9	0006
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB												
		01	SD	31	SC2	139		006	002	0											

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\frac{\Delta \rho}{\rho}$ 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 ₂ -S $\mu\text{g} - \text{dl/l}$	pH	S C C
		STC	0000	-0094	3190	2566	0023358	0000	14400								
078		OBS	0000	-0094	31900	2566			14406								
		STC	0010	-0130	3218	2590	0021102	0022	14395								
078		OBS	0010	-0130	32180	2590			14395								
		STC	0020	-0020	3240	2604	0019709	0042	14451								
078		OBS	0020	-0020	32400	2604			14451								
		STC	0030	0189	3263	2611	0019157	0062	14550								
078		OBS	0030	0189	32630	2611			14550								
		STC	0050	0065	3298	2645	0015844	0097	14512								
078		OBS	0050	0065	32980	2645			14512								
		STC	0070	-0070	3335	2683	0012277	0132	14450								
078		OBS	0070	-0070	33350	2683			14450								
		STC	0100	-0124	3351	2697	0010850	0161	14431								
078		OBS	0100	-0124	33510	2697			14431								
		STC	0120	-0140	3362	2707	0009525	0167	14426								
078		OBS	0120	-0140	33620	2707			14426								
		STC	0150	-0150	3365	2710	0009605	0211	14429								
078		OBS	0150	-0150	33650	2710			14429								
		STC	0170	-0163	33670	2712			14428								
078		OBS	0170	-0163	33670	2712			14428								
		STC	0200	-0158	3372	2715	0009080	0258	14435								
078		OBS	0200	-0158	33720	2715			14435								
		STC	0220	-0149	33750	2718			14444								
078		OBS	0220	-0149	33750	2718			14444								
		STC	0250	-0128	3380	2721	0008539	0302	14458								
078		OBS	0250	-0128	33800	2721			14458								
		STC	0300	-0008	3398	2731	0007700	0343	14525								
078		OBS	0300	-0008	33980	2731			14525								
		STC	0400	0070	3422	2746	0006302	0415	14580								
078		OBS	0400	0070	34220	2746			14580								
		STC	0500	0080	3433	2754	0005594	0473	14603								
078		OBS	0500	0080	34330	2754			14603								
		STC	0600	0093	3444	2762	0004875	0525	14627								
078		OBS	0600	0093	34440	2762			14627								
		STC	0700	0131	3454	2768	0004454	0572	14662								
078		OBS	0700	0131	34540	2768			14662								
		STC	0800	0136	3457	2770	0004295	0615	14681								
078		OBS	0800	0136	34570	2770			14681								
		STC	0900	0130	3459	2772	0004122	0658	14696								
078		OBS	0900	0130	34590	2772			14696								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DATE	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NDOC STATION NUMBER		
CRUISE CODE	IO. NO.						MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
51818J	WE		73385N	077250W	260	27	07	25	110	1970	WE3	007	1079		00	U	X		03	7	8	0007	
WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		SPECIAL OBSERVATIONS															
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VEL CODE		NO. OBS. DEPTHS									
BT		S0		34		SC4		122		002		000		6									

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	ST. CODE
		STC	0000	0020	3165	2542	0025724	0000	14460								
		UBS	0000	0020	31650	2542			14460								
		STC	0010	0000	3230	2595	0020617	0023	14457								
		UBS	0010	0000	32300	2595			14457								
		STC	0020	-0045	3309	2661	0014373	0040	14447								
		UBS	0020	-0045	33090	2661			14447								
		STC	0030	-0027	3330	2677	0012806	0054	14457								
		UBS	0030	-0027	33300	2677			14457								
		STC	0050	0150	3328	2673	0013260	0080	14550								
		UBS	0050	0150	33280	2673			14550								
		STC	0075	-0091	3343	2690	0011500	0111	14441								
		UBS	0075	-0091	33430	2690			14441								
		STC	0100	-0116	3350	2697	0010952	0139	14434								
		UBS	0100	-0116	33500	2697			14434								
		STC	0125	-0140	3354	2700	0010559	0166	14428								
		UBS	0125	-0140	33540	2700			14428								
		STC	0150	-0149	3358	2704	0010206	0192	14429								
		UBS	0150	-0149	33580	2704			14429								
		STC	0175	-0155	33640	2705			14431								
		UBS	0175	-0155	33640	2705			14431								
		STC	0200	-0160	3360	2712	0009376	0241	14433								
		UBS	0200	-0160	33600	2712			14433								
		STC	0225	-0159	33740	2717			14439								
		UBS	0225	-0159	33740	2717			14439								
		STC	0250	-0134	3382	2723	0008364	0285	14456								
		UBS	0250	-0134	33820	2723			14456								
		STC	0300	-0042	3350	2726	0008129	0320	14508								
		UBS	0300	-0042	33500	2726			14508								
		STC	0400	0029	3413	2741	0006704	0401	14560								
		UBS	0400	0029	34130	2741			14560								
		STC	0500	0120	3436	2754	0005660	0463	14621								
		UBS	0500	0120	34360	2754			14621								
		STC	0600	0113	3443	2760	0005113	0517	14636								
		UBS	0600	0113	34430	2760			14636								
		STC	0700	0131	3455	2768	0004374	0564	14602								
		UBS	0700	0131	34550	2768			14602								
		STC	0800	0136	3457	2770	0004295	0608	14681								
		UBS	0800	0136	34570	2770			14681								
		STC	0900	0125	3459	2772	0004074	0650	14693								
		UBS	0900	0125	34590	2772			14693								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HEFT INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH DF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER		
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	
318180	WE	73300N	077000W	260	37	07	25	135	1970	HE3	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 DIRCE		DRY BULB	WET BULB			
DT	SD	34	S04	122	002	000	6		

MESSNGR TIME HR 1/10	CAST HD.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-110?	Σ Δ 0 DYF. M. x 10 ³	SDUNO VELOCITY	D ₂ ml/l	PD ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SI O ₂ -SI µg - ml/l	pH	S CC
		STD	0000	-0048	3207	2575	0022197	0000	14430								
135		OBS	0000	-0048	32070	2575			14430								
		STL	0010	-0089	3209	2582	0021900	0022	14413								
135		OBS	0010	-0089	32090	2582			14413								
		STC	0020	-0153	3235	2608	0019426	0042	14389								
135		OBS	0020	-0153	32350	2608			14389								
		STD	0030	-0155	3256	2621	0018105	0061	14392								
135		OBS	0030	-0155	32560	2621			14392								
		STD	0050	-0020	3255	2647	0015736	0095	14482								
135		OBS	0050	-0020	32550	2647			14482								
		STC	0075	-0114	3343	2691	0011508	0129	14431								
135		OBS	0075	-0114	33430	2691			14431								
		STC	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	0009756	0207	14430								
135		OBS	0150	-0148	33640	2705			14430								
135		OBS	0175	-0145	33660	2712			14436								
		STC	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	0028	3405	2735	0007360	0336	14541								
135		OBS	0300	0028	34050	2735			14541								
		STL	0400	0049	3423	2748	0006132	0404	14571								
135		OBS	0400	0049	34230	2748			14571								
		STC	0500	0057	3435	2758	0005268	0461	14611								
135		OBS	0500	0057	34350	2758			14611								
		STC	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								
		STC	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	OBS. INSTR.	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.					T0	T1	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
313180		WE	73410N	076120W		260	36	07	25	158	1970	NE3	009	0314		00	0	X		03	B	8	0009
WATER		WIND		BARO-METER		AIR TEMP. °C		SPECIAL OBSERVATIONS															
COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIE. CODE		NO. OBS. DEPTHS											
UT		SD		36		SC6		122		031		022		7									

MESSNGER 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 ²	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	-0012	3326	2673											
158		OBS	0000	-0012	33260	2673	0013233	0000	14463								
		STC	0010	-0046	3339	2685			14463								
158		OBS	0010	-0046	33390	2685	0012060	0012	14450								
		STC	0020	-0080	3350	2695			14450								
158		OBS	0020	-0080	33500	2695	0011110	0024	14438								
		STC	0030	-0144	3360	2705			14438								
158		OBS	0030	-0144	33600	2705	0010140	0034	14411								
		STC	0050	-0147	3372	2715			14411								
158		OBS	0050	-0147	33720	2715	0009205	0054	14415								
		STC	0075	-0093	3374	2715			14415								
158		OBS	0075	-0093	33740	2715	0009211	0077	14445								
		STC	0100	-0143	3376	2716			14445								
158		OBS	0100	-0143	33760	2716	0008678	0099	14426								
		STC	0125	-0153	3378	2720			14426								
158		OBS	0125	-0153	33780	2720	0008679	0121	14420								
		STC	0150	-0156	3379	2721			14420								
158		OBS	0150	-0156	33790	2721	0008581	0143	14428								
		STC	0200	-0160	33800	2722			14428								
158		OBS	0200	-0160	33800	2722			14431								
		STC	0200	-0112	3362	2722			14431								
158		OBS	0200	-0112	33620	2722	0008468	0186	14458								
		STC	0225	-0076	3370	2725			14458								
158		OBS	0225	-0076	33700	2725			14479								
		STC	0250	-0030	3396	2730			14479								
158		OBS	0250	-0030	33960	2730	0007747	0226	14506								
		STL	0300	0027	3414	2742			14506								
158		OBS	0300	0027	34140	2742	0006676	0262	14543								
		STC	0400	0145	3439	2755			14543								
158		OBS	0400	0145	34390	2755	0005609	0324	14616								
		STC	0500	0133	3444	2759			14616								
158		OBS	0500	0133	34440	2759	0005165	0377	14628								
		STC	0600	0134	3449	2763			14628								
158		OBS	0600	0134	34490	2763	0004826	0427	14646								
		STC	0700	0134	3448	2763			14646								
158		OBS	0700	0134	34480	2763	0004932	0476	14662								
		STC	0800	0093	3449	2766			14662								
158		OBS	0800	0093	34490	2766	0004532	0524	14661								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CDEES	NODC STATION NUMBER
CITY CODE	ID. ND.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			

318180		WE	73460N	075310W	260	35	07	25	160	1970	WE 3	U 10	0944		00	0	X		03	6	8		0010
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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 OF FONCL		DRY BULB	WET BULB			

01	00	36	306	122	031	022	7		
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MESSAGE TIME HR 1/10	CAST OF ND.	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 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
		STC	0000	0240	3245	2552	0020863	0000	14505								
180		OBS	0000	0240	32450	2592			14505								
		STC	0010	0212	3265	2611	0019104	0020	14557								
180		OBS	0010	0212	32650	2641			14557								
		STC	0020	0130	3300	2644	0015958	0037	14527								
180		OBS	0020	0130	33000	2644			14527								
		STC	0030	-0113	3327	2678	0012763	0051	14421								
180		OBS	0030	-0113	33270	2678			14421								
		STC	0050	-0145	3344	2692	0011355	0076	14412								
180		OBS	0050	-0145	33440	2692			14412								
		STC	0075	-0153	3357	2703	0010326	0103	14414								
180		OBS	0075	-0153	33570	2703			14414								
		STC	0100	-0168	3384	2709	0009728	0128	14412								
180		OBS	0100	-0168	33840	2709			14412								
		STC	0125	-0170	3365	2713	0009322	0152	14416								
180		OBS	0125	-0170	33650	2713			14416								
		STC	0150	-0170	3372	2716	0009079	0175	14421								
180		OBS	0150	-0170	33720	2716			14421								
180		OBS	0175	-0167	33740	2717			14427								
		STC	0200	-0076	3380	2719	0008768	0219	14474								
180		OBS	0200	-0076	33800	2719			14474								
180		OBS	0225	-0042	33930	2728			14490								
		STC	0250	0033	3405	2734	0007405	0260	14536								
180		OBS	0250	0033	34050	2734			14536								
		STC	0300	0067	3419	2742	0006683	0295	14571								
180		OBS	0300	0067	34190	2742			14571								
		STC	0400	0128	3438	2755	0005555	0356	14608								
180		OBS	0400	0128	34380	2755			14608								
		STC	0500	0120	3446	2761	0004991	0409	14627								
180		OBS	0500	0120	34460	2761			14627								
		STC	0600	0131	3450	2764	0004723	0457	14645								
180		OBS	0600	0131	34500	2764			14645								
		STC	0700	0129	3452	2766	0004584	0504	14661								
180		OBS	0700	0129	34520	2766			14661								
		STC	0800	0092	3453	2769	0004228	0548	14661								
180		OBS	0800	0092	34530	2769			14661								

REFERENCE CTRY CODE	TO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDIC.	MARDEN SQUARE		STATION TIME (GMT)		YEAR	DRIGINATOR'S		DEPTM TO BDTOM	MAX. DEPTH DF 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	
31818U		WC	73560N	074500W		266	34	07	25	268	1570	WE3	011	0078	00	U	X	03	78		0011
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS CODE							
		CT		SD		Zc		S02		121		037		024		2					

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	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 $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SCC
		STC	0000	0240	3250	2596	0020503	0000	14506								
208		UBS	0000	0240	32500	2596			14506								
		STC	0010	0246	3230	2660	0014504	0017	14502								
208		UBS	0010	0248	32300	2660			14502								
		STC	0020	-0102	3238	2660	0011965	0030	14426								
208		UBS	0020	-0102	32380	2660			14426								
		STC	0030	-0122	3240	2654	0011252	0042	14415								
208		UBS	0030	-0122	32400	2654			14415								
		STC	0050	-0161	3254	2701	0010549	0064	14406								
208		UBS	0050	-0161	32540	2701			14406								
		STC	0075	-0175	3260	2706	0010042	0089	14405								
208		UBS	0075	-0175	32600	2706			14405								
		STC	0100	-0188	3266	2711	0009574	0114	14415								
208		UBS	0100	-0188	32660	2711			14415								
		STC	0125	-0166	3272	2716	0009107	0137	14419								
208		UBS	0125	-0166	32720	2716			14419								
		STC	0150	-0174	3273	2717	0008988	0160	14413								
208		UBS	0150	-0174	32730	2717			14413								
		STC	0200	-0053	3266	2723	0008412	0203	14486								
208		UBS	0200	-0053	32660	2723			14486								
		STC	0225	0015	32570	2725			14523								
208		UBS	0225	0015	32570	2725			14523								
		STC	0250	0049	3404	2733	0007569	0243	14543								
208		UBS	0250	0049	34040	2733			14543								
		STC	0300	0033	3416	2743	0006567	0279	14546								
208		UBS	0300	0033	34160	2743			14546								
		STC	0400	0113	3437	2755	0005521	0339	14602								
208		UBS	0400	0113	34370	2755			14602								
		STC	0500	0123	3447	2763	0004865	0391	14624								
208		UBS	0500	0123	34470	2763			14624								
		STC	0600	0128	3447	2762	0004932	0440	14643								
208		UBS	0600	0128	34470	2762			14643								
		STC	0700	0125	3445	2764	0004782	0489	14659								
208		UBS	0700	0125	34450	2764			14659								
		STC	0800	0091	3450	2767	0004448	0535	14660								
208		UBS	0800	0091	34500	2767			14660								

REFERENCE	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH DF S'APLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER	
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER				SEA
318180	WE	74040N	074050W	260	44	07	25	226	1970	WE3	012	0786		00	0	X	01	7	8	0012
				WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
				COLDR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB									
				0T	SD	27	SG2	115	033	002	7									

MESSENGR TIME HR 1/10	CASST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SDUNO VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiD ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	ST CODE
		STC	0000	0220	3319	2652	0015197	0000	14571								
226		UBS	0000	0220	3319C	2652			14571								
		STC	0010	0270	3330	2658	0014685	0014	14592								
226		UBS	0010	0270	3330C	2658			14592								
		STC	0020	-0020	3350	2693	0011355	0028	14466								
226		UBS	0020	-0020	3350C	2693			14466								
		STC	0030	-0115	3358	2703	0010386	0038	14425								
226		UBS	0030	-0115	3358C	2703			14425								
		STC	0050	-0148	3364	2709	0009819	0059	14413								
226		UBS	0050	-0148	3364C	2709			14413								
		STC	0075	-0152	3366	2710	0009631	0083	14416								
226		UBS	0075	-0152	3366C	2710			14416								
		STC	0100	-0165	3368	2712	0009431	0107	14414								
226		UBS	0100	-0165	3368C	2712			14414								
		STC	0125	-0164	3371	2715	0009109	0130	14419								
226		UBS	0125	-0164	3371C	2715			14419								
		STC	0150	-0128	3378	2715	0008747	0152	14441								
226		UBS	0150	-0128	3378C	2715			14441								
226		UBS	0175	-0030	3387C	2723			14492								
		STC	0200	0020	3399	2730	0007787	0194	14521								
226		UBS	0200	0020	3399C	2730			14521								
226		UBS	0225	0058	3417C	2740			14563								
		STC	0250	0152	3422	2740	0006902	0230	14592								
226		UBS	0250	0152	3422C	2740			14592								
		STC	0300	0164	3437	2750	0006034	0263	14617								
226		UBS	0300	0164	3437C	2750			14617								
		STC	0400	0192	3448	2758	0005309	0320	14638								
226		UBS	0400	0192	3448C	2758			14638								
		STC	0500	0169	3453	2764	0004783	0370	14645								
226		UBS	0500	0169	3453C	2764			14645								
		STC	0600	0179	3455	2765	0004754	0418	14667								
226		UBS	0600	0179	3455C	2765			14667								
		STC	0700	0100	3454	2770	0004200	0462	14648								
226		UBS	0700	0100	3454C	2770			14648								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEXT	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	AMT	
318180		NE	74110N	073170W		260	43	07	26	000	1970	NE3	013		0780		00	0	X		01	7	7	0013

WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		WV. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
	DT	SD	C6	SC6	C65	C39	028	7	

MESSNGR 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. $\times 10^2$	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 $\mu\text{M} - \text{dl/l}$	pH	CC
		STD	0000	0370	3317	2638	0016518	0000	14631								
006		OBS	0000	0370	33170	2638			14631								
		STD	0010	0354	3337	2656	0014668	0015	14629								
006		OBS	0010	0354	33370	2656			14629								
		STD	0020	-0112	3352	2698	0010862	0028	14424								
006		OBS	0020	-0112	33520	2698			14424								
		STD	0030	-0147	3356	2702	0010446	0039	14410								
006		OBS	0030	-0147	33560	2702			14410								
		STD	0050	-0168	3361	2707	0009997	0059	14404								
006		OBS	0050	-0168	33610	2707			14404								
		STD	0075	-0160	3365	2710	0009675	0084	14409								
006		OBS	0075	-0166	33650	2710			14409								
		STD	0100	-0160	3367	2711	0009522	0108	14417								
006		OBS	0100	-0160	33670	2711			14417								
		STD	0125	-0152	3371	2714	0009220	0131	14425								
006		OBS	0125	-0152	33710	2714			14425								
		STD	0150	0010	3390	2724	0008419	0153	14507								
006		OBS	0150	0010	33900	2724			14507								
		STD	0200	0062	3400	2725			14536								
006		OBS	0200	0052	3407	2732	0007011	0193	14555								
		STD	0225	0052	34070	2732			14555								
006		OBS	0225	0113	34180	2740			14570								
		STD	0250	0134	3429	2747	0008242	0228	14585								
006		OBS	0250	0134	34290	2747			14585								
		STD	0300	0189	3441	2753	0005778	0258	14619								
006		OBS	0300	0189	34410	2753			14619								
		STD	0400	0209	3452	2760	0005157	0313	14646								
006		OBS	0400	0209	34520	2760			14646								
		STD	0500	0190	3456	2765	0004735	0362	14655								
006		OBS	0500	0190	34560	2765			14655								
		STD	0600	0143	3457	2769	0004295	0407	14651								
006		OBS	0600	0143	34570	2769			14651								
		STD	0700	0095	3456	2772	0004013	0449	14646								
006		OBS	0700	0095	34560	2772			14646								

REFERENCE CITY CODE	SNIP 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	NDDC STATION NUMBER				
					10'	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER	SEA	
318180	WE	74200N	072160W	260	42	07	26	027	1970	WE3	014	0988		03	0	1		00	1	6		0014

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			
UT	SD	27	51	C54	042	022	7		

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ 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
		STD	0000	0353	3240	2575	0022170	0000	14614								
027		OBS	0000	0353	3240	2575			14614								
		STD	0010	0250	3285	2624	0017934	0020	14577								
027		OBS	0010	0250	3285	2624			14577								
		STD	0020	-0144	3343	2692	0011450	0034	14407								
027		OBS	0020	-0144	3343	2692			14407								
		STD	0030	-0160	3356	2703	0010409	0045	14403								
027		OBS	0030	-0160	3356	2703			14403								
		STD	0050	-0172	3358	2704	0010213	0066	14401								
027		OBS	0050	-0172	3358	2704			14401								
		STD	0075	-0174	3366	2711	0009581	0091	14400								
027		OBS	0075	-0174	3366	2711			14400								
		STD	0100	-0161	3370	2714	0009288	0114	14416								
027		OBS	0100	-0161	3370	2714			14416								
		STD	0125	-0139	3376	2718	0008874	0137	14432								
027		OBS	0125	-0139	3376	2718			14432								
		STD	0150	-0015	3387	2722	0008526	0159	14495								
027		OBS	0150	-0015	3387	2722			14495								
		STD	0175	0040	3390	2728			14520								
027		OBS	0175	0040	3390	2728			14520								
		STD	0200	0058	3407	2735	0007404	0198	14540								
027		OBS	0200	0058	3407	2735			14540								
		STD	0225	0056	3416	2739			14562								
027		OBS	0225	0056	3416	2739			14562								
		STD	0250	0120	3424	2744	0006521	0233	14578								
027		OBS	0250	0120	3424	2744			14578								
		STD	0300	0156	3435	2751	0005967	0264	14604								
027		OBS	0300	0156	3435	2751			14604								
		STD	0400	0167	3447	2758	0005349	0321	14636								
027		OBS	0400	0167	3447	2758			14636								
		STD	0500	0151	3448	2758	0005340	0375	14654								
027		OBS	0500	0151	3448	2758			14654								
		STD	0600	0140	3453	2766	0004576	0424	14649								
027		OBS	0600	0140	3453	2766			14649								
		STD	0700	0101	3455	2770	0004131	0468	14649								
027		OBS	0700	0101	3455	2770			14649								
		STD	0800	0068	3455	2773	0003883	0508	14651								
027		OBS	0800	0068	3455	2773			14651								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	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		
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
31d1d0		WE	74360N	C7C5CCW	260	40	07	26	058	1970	WE3	015	1372		00	0	X		00	76	0015		
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
COLOR CODE		DIR.		SPEED OR FORCE		DRY BULB		WET BULB															
CT		SD		CC		SCC		C52		011		00b		4									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SI D ₄ -SI $\mu g - dl/l$	pH	SI
		STD	0000	-0030	3150	2532	0026631	0000	14430								
05d		OBS	0000	-0030	3150C	2532			14430								
		STD	0010	-0072	3300	2655	0014983	0020	14433								
05d		OBS	0010	-0072	3300C	2655			14433								
		STD	0020	-0120	3335	2688	0011028	0034	14418								
05d		OBS	0020	-0120	3335C	2688			14418								
		STD	0030	-0151	3350	2697	0010090	0045	14407								
05d		OBS	0030	-0151	3350C	2697			14407								
		STD	0050	-0171	3360	2706	0010060	0066	14402								
05d		OBS	0050	-0171	3360C	2706			14402								
		STD	0075	-0157	3364	2709	0009774	0091	14413								
05d		OBS	0075	-0157	3364C	2709			14413								
		STD	0100	-0176	3367	2712	0009482	0115	14409								
05d		OBS	0100	-0176	3367C	2712			14409								
		STD	0125	-0144	3374	2717	0009016	0138	14429								
05d		OBS	0125	-0144	3374C	2717			14429								
		STD	0150	-0065	3383	2721	0008603	0160	14472								
05d		OBS	0150	-0065	3383C	2721			14472								
05d		OBS	0175	0004	3355C	2728			14509								
		STD	0200	0060	3405	2733	0007507	0201	14540								
05d		OBS	0200	0060	3405C	2733			14540								
05d		OBS	0225	0102	3415C	2738			14565								
		STD	0250	0130	3422	2742	0006743	0230	14582								
05d		OBS	0250	0130	3422C	2742			14582								
		STD	0300	0166	3438	2752	0005833	0266	14610								
05d		OBS	0300	0166	3438C	2752			14610								
		STD	0400	0202	3450	2759	0005246	0323	14643								
05d		OBS	0400	0202	3450C	2759			14643								
		STD	0500	0158	3453	2762	0005027	0375	14658								
05d		OBS	0500	0158	3453C	2762			14658								
		STD	0600	0155	3454	2766	0004027	0423	14656								
05d		OBS	0600	0155	3454C	2766			14656								
		STD	0700	0126	3457	2770	0004166	0467	14660								
05d		OBS	0700	0126	3457C	2770			14660								
		STD	0800	0092	3458	2773	0003855	0507	14662								
05d		OBS	0800	0092	3458C	2773			14662								
		STD	0900	0086	3458	2775	0003658	0545	14667								
05d		OBS	0900	0086	3458C	2775			14667								

REFERENCE CTRY ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SQUID INDEX	MARDEN SQUARE		STATION TIME IGMTI				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER
					10'	1'	MO	DAY	HR.1/10	CRUISE ND.		STATION NUMBER	DIR.			HGT	PER	SEA		TYE	AMT	
518180	WE	74510N	065040W		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	ND. OBS. DEPTH	SPECIAL OBSERVATIONS								
					CDLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
					UT	SU	16	SC9	C80	-004	-006	3										

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	D ₂ ml/l	PO ₄ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₂ -Si $\mu g - \mu l/l$	pH	CLDUD
		STD	0000	-0105	3115	2506	0029090	0000	14391								
108		UBS	0000	-0105	31150	2506			14391								
		STD	0010	-0103	3160	2559	0024084	0026	14402								
108		UBS	0010	-0103	31600	2559			14402								
		STC	0020	-0055	3322	2673	0013213	0045	14427								
108		UBS	0020	-0055	33220	2673			14427								
		STD	0030	-0125	3339	2688	0011813	0057	14417								
108		UBS	0030	-0125	33390	2688			14417								
		STD	0050	-0164	3349	2697	0010928	0080	14404								
108		UBS	0050	-0164	33490	2697			14404								
		STL	0075	-0170	3353	2700	0010584	0107	14406								
108		UBS	0075	-0170	33530	2700			14406								
		STD	0100	-0169	3355	2702	0010413	0133	14411								
108		UBS	0100	-0169	33550	2702			14411								
		STD	0125	-0156	3361	2706	0009970	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								
		STC	0200	-0011	3395	2729	0007923	0226	14506								
108		UBS	0200	-0011	33950	2729			14506								
108		UBS	0225	0026	34020	2732			14528								
		STC	0250	0036	3412	2740	0006865	0263	14539								
108		UBS	0250	0036	34120	2740			14539								
		STD	0300	0111	3428	2748	0006164	0295	14583								
108		UBS	0300	0111	34280	2748			14583								
		STC	0400	0180	3446	2758	0005359	0353	14633								
108		UBS	0400	0180	34460	2758			14633								
		STC	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	ORBIT PROJECT	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./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	

315130	WE		75040N	060370W		255	07	26	128	1570	WLS	017	0730		00	U	X		45	X	9	0017
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. DIR.	DIR.	SPEED OR FORCE		DRY BULB	WET RULB			
LT	SO	16	SCS	080	004	006	1		

MESSENGER TIME HR 1/10	CAST OF ND.	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	SEC COR.
		STL	0000	-0053	3200	2574	0022507	0000	14408								
120		UBS	0000	-0093	32000	2574			14408								
		STD	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	-0149	3336	2680	0011773	0047	14406								
120		UBS	0030	-0149	33360	2680			14406								
		STD	0050	-0167	3345	2694	0011225	0070	14402								
120		UBS	0050	-0167	33450	2694			14402								
		STL	0075	-0175	3353	2700	0010574	0097	14403								
120		UBS	0075	-0175	33530	2700			14403								
		STD	0100	-0169	3359	2705	0010100	0123	14411								
120		UBS	0100	-0169	33590	2705			14411								
		STD	0125	-0154	3367	2711	0009517	0148	14423								
120		UBS	0125	-0154	33670	2711			14423								
		STD	0150	-0105	3374	2715	0009130	0171	14452								
120		UBS	0150	-0105	33740	2715			14452								
120		UBS	0175	-0068	33640	2722			14474								
		STD	0200	-0033	3395	2730	0007020	0213	14496								
120		UBS	0200	-0033	33950	2730			14496								
120		UBS	0225	0020	34050	2735			14520								
		STD	0250	0048	3411	2738	0007038	0250	14544								
120		UBS	0250	0048	34110	2738			14544								
		STD	0300	0098	3425	2747	0006306	0284	14577								
120		UBS	0300	0098	34250	2747			14577								
		STD	0400	0160	3447	2758	0005339	0342	14635								
120		UBS	0400	0160	34470	2758			14635								
		STD	0500	0190	3453	2762	0004963	0394	14655								
120		UBS	0500	0190	34530	2762			14655								
		STD	0600	0153	3456	2766	0004454	0441	14655								
120		UBS	0600	0153	34560	2768			14655								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	TYPE
31810U	WE	75150N	068080W		259	56	07	26	152	1970	WE3	018	0493		00	0	X		45	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	(mb)	DRY BULB	WET BULB											
					DT	SD	11	SG5	C9C	001	000	4										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ OYN, 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 ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NO.
		STD	0000	-0115	3256	2620	0018229	0000	14406								
152		OBS	0000	-0115	3256	2620			14406								
		STD	0010	-0130	3305	2660	0014421	0010	14407								
152		OBS	0010	-0130	3305	2660			14407								
		STD	0020	-0152	3332	2683	0012278	0029	14402								
152		OBS	0020	-0152	3332	2683			14402								
		STD	0030	-0163	3343	2692	0011403	0041	14400								
152		OBS	0030	-0163	3343	2692			14400								
		STD	0050	-0173	3351	2699	0010740	0063	14400								
152		OBS	0050	-0173	3351	2699			14400								
		STD	0075	-0173	3354	2701	0010502	0090	14404								
152		OBS	0075	-0173	3354	2701			14404								
		STD	0100	-0171	3354	2701	0010485	0116	14409								
152		OBS	0100	-0171	3354	2701			14409								
		STD	0125	-0166	3363	2708	0009792	0141	14417								
152		OBS	0125	-0166	3363	2708			14417								
		STD	0150	-0091	3374	2715	0009187	0165	14458								
152		OBS	0150	-0091	3374	2715			14458								
152		OBS	0175	-0036	3385	2722			14489								
		STD	0200	0066	3395	2724	0008362	0209	14541								
152		OBS	0200	0066	3395	2724			14541								
152		OBS	0225	0094	3403	2729			14559								
152		OBS	0250	0114	3409	2733	0007613	0249	14573								
152		OBS	0250	0114	3409	2733			14573								
		STD	0300	0155	3423	2741	0008804	0285	14602								
152		OBS	0300	0155	3423	2741			14602								
		STD	0400	0180	3443	2755	0005592	0347	14632								
152		OBS	0400	0180	3443	2755			14632								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	TYPE
318180	WE	75254N	067390W		259	57	07	26	179	1970	WE3	019	0430		00	0	X		28	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	(mb)	DRY BULB	WET BULB											
					DT	SD	12	S05	116	006	000	3										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ OYN, 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 ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NO.
		STD	0000	-0092	3230	2599	0020286	0000	14413								
179		OBS	0000	-0092	3230	2599			14413								
		STD	0010	-0099	3283	2642	0010195	0018	14419								
179		OBS	0010	-0099	3283	2642			14419								
		STD	0020	-0126	3326	2677	0012813	0032	14414								
179		OBS	0020	-0126	3326	2677			14414								
		STD	0030	-0143	3341	2690	0011603	0045	14409								
179		OBS	0030	-0143	3341	2690			14409								
		STD	0050	-0163	3354	2701	0010539	0067	14405								
179		OBS	0050	-0163	3354	2701			14405								
		STD	0075	-0169	3357	2704	0010277	0093	14407								
179		OBS	0075	-0169	3357	2704			14407								
		STD	0100	-0165	3359	2705	0010116	0118	14413								
179		OBS	0100	-0165	3359	2705			14413								
		STD	0125	-0120	3368	2711	0009543	0143	14440								
179		OBS	0125	-0120	3368	2711			14440								
		STD	0150	-0040	3379	2717	0009020	0166	14483								
179		OBS	0150	-0040	3379	2717			14483								
179		OBS	0175	0019	3390	2722			14515								
		STD	0200	0070	3399	2727	0008076	0209	14544								
179		OBS	0200	0070	3399	2727			14544								
179		OBS	0225	0102	3405	2730			14563								
		STD	0250	0121	3413	2735	0007430	0247	14581								
179		OBS	0250	0121	3413	2735			14581								
		STD	0300	0168	3424	2741	0008893	0283	14608								
179		OBS	0300	0168	3424	2741			14608								
		STD	0400	0180	3443	2755	0005592	0346	14632								
179		OBS	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
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
518180		WE	75430N	067110W	255	57	07	26	197	1970	WE 5	020	0400	00	0	X		28	X	9	0020
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB	3								
						UT	SU	12	SC5	110	000	000	3								
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANDMALT-210?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/1	TOTAL-P μg - 01/1	NO ₂ -N μg - 01/1	NO ₃ -N μg - 01/1	SiO ₄ -Si μg - 01/1	pH	3 CODE				
		STC	0000	-0070	3155	2570	0023040	0000	14418												
197		UBS	0000	-0070	31550	2570			14418												
		STL	0010	-0092	3305	2659	0014530	0018	14425												
197		UBS	0010	-0092	33050	2659			14425												
		STC	0020	-0135	3335	2665	0012099	0032	14411												
197		UBS	0020	-0135	33350	2665			14411												
		STO	0030	-0149	3343	2692	0011440	0043	14407												
197		UBS	0030	-0149	33430	2692			14407												
		STO	0050	-0154	3349	2697	0010947	0060	14409												
197		UBS	0050	-0154	33490	2697			14409												
		STC	0075	-0159	3353	2700	0010613	0093	14411												
197		UBS	0075	-0159	33530	2700			14411												
		STL	0100	-0162	3357	2703	0010280	0119	14414												
197		UBS	0100	-0162	33570	2703			14414												
		STL	0125	-0115	3364	2708	0009874	0144	14441												
197		UBS	0125	-0115	33640	2708			14441												
		STC	0150	-0071	3372	2713	0009412	0106	14467												
197		UBS	0150	-0071	33720	2713			14467												
197		UBS	0175	0000	33640	2719			14500												
		STC	0200	0056	3394	2724	0008375	0213	14537												
197		UBS	0200	0056	33940	2724			14537												
197		UBS	0225	0101	34060	2731			14563												
		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
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
518180		WE	75457N	066400W	255	56	07	20	213	1970	WE 5	021	0123	00	0	X		45	X	9	0021
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB	3								
						UT	SU	15	SO3	120	-001	-000	3								
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANDMALT-210?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/1	TOTAL-P μg - 01/1	NO ₂ -N μg - 01/1	NO ₃ -N μg - 01/1	SiO ₄ -Si μg - 01/1	pH	3 CODE				
		STC	0000	-0016	3220	2588	0021318	0000	14447												
213		UBS	0000	-0016	32200	2588			14447												
		STC	0010	-0066	3292	2648	0015017	0018	14435												
213		UBS	0010	-0066	32920	2648			14435												
		STC	0020	-0100	3328	2678	0012734	0032	14426												
213		UBS	0020	-0100	33280	2678			14426												
		STO	0030	-0118	3333	2683	0012293	0045	14420												
213		UBS	0030	-0118	33330	2683			14420												
		STO	0050	-0120	3340	2688	0011738	0069	14423												
213		UBS	0050	-0120	33400	2688			14423												
		STO	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	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	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318180		WE	75550N	068000W	259	58	07	27	028	1970	WE 3	022	0300		00	0	X		45	X	9	0022	
		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											
		DT		SD		12		SC4		132		000		-006		3							

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SI O ₄ -SI $\mu\text{g} \cdot \text{dl/l}$	pH	CTD#
		STD	0000	-0060	3170	2549	0024990	0000	14419								
028		OBS	0000	-0060	31700	2549			14419								
		STD	0010	-0066	3285	2642	0016142	0020	14433								
028		OBS	0010	-0068	32850	2642			14433								
		STD	0020	-0133	3327	2678	0012714	0035	14410								
028		OBS	0020	-0133	33270	2678			14410								
		STD	0030	-0142	3332	2683	0012299	0047	14406								
028		OBS	0030	-0142	33320	2683			14406								
		STD	0050	-0158	3346	2694	0011173	0071	14406								
028		OBS	0050	-0158	33460	2694			14406								
		STD	0075	-0169	3353	2700	0010584	0098	14406								
028		OBS	0075	-0169	33530	2700			14406								
		STD	0100	-0169	3355	2702	0010422	0124	14411								
028		OBS	0100	-0168	33550	2702			14411								
		STD	0125	-0105	3365	2708	0009633	0149	14446								
028		OBS	0125	-0105	33650	2708			14446								
		STD	0150	-0055	3372	2712	0009482	0173	14475								
028		OBS	0150	-0055	33720	2712			14475								
028		OBS	0175	0006	33650	2720			14509								
		STD	0200	0080	3359	2727	0008145	0218	14548								
028		OBS	0200	0080	33590	2727			14548								
028		OBS	0225	0096	34020	2728			14560								
		STD	0250	0100	3403	2729	0007973	0258	14566								
028		OBS	0250	0100	34030	2729			14566								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH 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	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318180		WE	75460N	068290W	259	58	07	27	051	1970	WE 3	023	0285		00	0	0		44	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		DRY BULB		WET BULB											
		DT		SD		10		SC5		135		000		-006		2							

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SI O ₄ -SI $\mu\text{g} \cdot \text{dl/l}$	pH	CTD#
		STD	0000	-0080	3190	2566	0023394	0000	14413								
051		OBS	0000	-0080	31900	2566			14413								
		STD	0010	-0116	3250	2616	0016675	0021	14405								
051		OBS	0010	-0116	32500	2616			14405								
		STD	0020	-0137	3320	2673	0013238	0037	14408								
051		OBS	0020	-0137	33200	2673			14408								
		STD	0030	-0155	3339	2689	0011729	0049	14403								
051		OBS	0030	-0155	33390	2689			14403								
		STD	0050	-0167	3350	2698	0010837	0072	14403								
051		OBS	0050	-0167	33500	2698			14403								
		STD	0075	-0172	3356	2703	0010349	0098	14405								
051		OBS	0075	-0172	33560	2703			14405								
		STD	0100	-0166	3358	2704	0010186	0124	14411								
051		OBS	0100	-0168	33580	2704			14411								
		STD	0125	-0125	3366	2710	0009690	0149	14437								
051		OBS	0125	-0125	33660	2710			14437								
		STD	0150	-0040	3386	2723	0008479	0171	14484								
051		OBS	0150	-0040	33860	2723			14484								
051		OBS	0175	0035	33540	2725			14523								
		STD	0200	0078	3404	2731	0007748	0212	14548								
051		OBS	0200	0078	34040	2731			14548								
051		OBS	0225	0115	34140	2737			14570								
		STD	0250	0134	3418	2739	0007079	0249	14583								
051		OBS	0250	0134	34180	2739			14583								

REFERENCE		SHIP CODE	LATITUDE ° ' / 10	LONGITUDE ° ' / 10	OBS. INDICTR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	DRIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. / 10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
31d	180	WE	75320N	065050W	259	59	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			
LT	SU	11	506	139	-007	-011	2		

MESSAGE TIME HR / 10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	D 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	SID ₄ -Si μg - dl/l	pH	S C C
		STD	0000	-0090	3200	2574	0022596	0000	14409								
083		OBS	0000	-0090	32000	2574			14409								
		STD	0010	-0120	3300	2656	0014820	0018	14411								
083		OBS	0010	-0120	33000	2656			14411								
		STD	0020	-0135	3321	2674	0013160	0032	14409								
082		OBS	0020	-0135	33210	2674			14409								
		STD	0030	-0156	3343	2692	0011421	0045	14403								
082		OBS	0030	-0156	33430	2692			14403								
		STD	0050	-0171	3354	2701	0010520	0006	14401								
083		OBS	0050	-0171	33540	2701			14401								
		STD	0075	-0172	3358	2704	0010195	0092	14405								
083		OBS	0075	-0172	33580	2704			14405								
		STD	0100	-0172	3359	2705	0010105	0118	14410								
083		OBS	0100	-0172	33590	2705			14410								
		STD	0125	-0100	3370	2712	0009465	0142	14449								
082		OBS	0125	-0100	33700	2712			14449								
		STD	0150	-0026	3362	2719	0005044	0165	14488								
082		OBS	0150	-0028	33620	2719			14488								
083		OBS	0175	0028	33890	2722			14519								
		STD	0200	0070	3397	2720	0000229	0200	14544								
082		OBS	0200	0070	33970	2720			14544								
082		OBS	0225	0110	34060	2731			14567								
		STD	0250	0127	3413	2735	0007407	0247	14580								
082		OBS	0250	0127	34130	2735			14580								
		STD	0300	0165	3425	2742	0000791	0282	14606								
082		OBS	0300	0165	34250	2742			14606								
		STD	0400	0194	3450	2760	0005177	0342	14639								
082		OBS	0400	0194	34500	2760			14639								
		STD	0500	0159	3454	2766	0004627	0391	14641								
082		OBS	0500	0159	34540	2766			14641								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	ORBIT INDICATOR	MARS DEN 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
					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

310160	WE	75230N	065460W		259	59	07	27	103	1970	WES	025	0635		10	0	2		01	0	1	0025
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WATER		WIND		BAROMETER (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	11	SC6	139	-007	-011	6		
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ OYN, M. x 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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SCC
		STC	0000	0050	3175	2549	0025053	0000	14471								
103		UBS	0000	0050	3175C	2549			14471								
		STD	0010	-0052	3250	2647	0015679	0020	14423								
103		UBS	0010	-0052	3250C	2647			14423								
		STD	0020	-0122	3329	268C	0012597	0034	14410								
103		UBS	0020	-0122	3329C	2680			14410								
		STD	0030	-0153	3340	2685	0011657	0040	14404								
103		UBS	0030	-0153	3340C	2685			14404								
		STC	0050	-0161	3347	2655	0011082	0069	14405								
103		UBS	0050	-0161	3347C	2655			14405								
		STD	0075	-0168	3354	2701	0010512	0096	14407								
103		UBS	0075	-0168	3354C	2701			14407								
		STD	0100	-0164	3355	2705	0010120	0122	14413								
103		UBS	0100	-0164	3355C	2705			14413								
		STD	0125	-0135	3364	2708	0009804	0147	14432								
103		UBS	0125	-0135	3364C	2708			14432								
		STD	0150	-0073	3375	2715	0009176	0170	14467								
103		UBS	0150	-0073	3375C	2715			14467								
		STD	0175	-0006	3385C	2720			14502								
103		UBS	0200	0036	3358	2729	0007949	0213	14528								
		STD	0200	0036	3358C	2729			14528								
103		UBS	0225	0055	3406C	2734			14542								
		STD	0250	0115	3415	2737	0007105	0251	14575								
103		UBS	0250	0115	3415C	2737			14575								
		STD	0300	0185	3436	2749	0006116	0284	14617								
103		UBS	0300	0185	3436C	2749			14617								
		STD	0400	0209	3453	2761	0005076	0340	14646								
103		UBS	0400	0209	3453C	2761			14646								
		STD	0500	0168	3454	2765	0004701	0389	14645								
103		UBS	0500	0168	3454C	2765			14645								
		STD	0600	0081	3455	2772	0003964	0432	14623								
103		UBS	0600	0081	3455C	2772			14623								

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 SPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE		75460N	070260W	260	50	07	27	137	1970	HE3	026	0330	15	0	2		01	X	9	0026	
						WATER		WIND		BARO- METER	AIR TEMP. °C		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANSL IM	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB		NO. OBS. DEPTHS								
						LT	SD	11	SC6	139	-007	-011	3									
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	CLD					
		STU	0000	-0033	2161	2541	0025770	0000	14431													
137		OBS	0000	-0033	31610	2541			14431													
		STU	0010	-0035	3240	2603	0019828	0022	14456													
137		OBS	0010	-0035	32400	2603			14456													
		STU	0020	-0060	3310	2662	0014255	0039	14442													
137		OBS	0020	-0060	33100	2662			14442													
		STU	0030	-0109	3334	2683	0012239	0053	14424													
137		OBS	0030	-0109	33340	2683			14424													
		STU	0050	-0145	3351	2698	0010822	0076	14413													
137		OBS	0050	-0145	33510	2698			14413													
		STU	0075	-0158	3360	2706	0010081	0102	14412													
137		OBS	0075	-0158	33600	2706			14412													
		STU	0100	-0118	3370	2713	0009416	0126	14437													
137		OBS	0100	-0118	33700	2713			14437													
		STU	0125	-0064	3376	2716	0009065	0149	14458													
137		OBS	0125	-0064	33760	2716			14458													
		STU	0150	-0043	3390	2726	0008162	0171	14463													
137		OBS	0150	-0043	33900	2726			14463													
		STU	0175	0064	33990	2728			14537													
137		OBS	0175	0064	33990	2728			14537													
		STL	0200	0074	3403	2730	0007600	0211	14546													
137		OBS	0200	0074	34030	2730			14546													
		STU	0225	0111	34160	2740			14569													
137		OBS	0225	0111	34160	2740			14569													
		STU	0250	0137	3421	2741	0006874	0247	14585													
137		OBS	0250	0137	34210	2741			14585													
		STU	0300	0168	3435	2750	0006057	0280	14609													
137		OBS	0300	0168	34350	2750			14609													
		STU	0400	0032	34350	2755	0005118	0336	14565													
137		OBS	0400	0032	34350	2755			14565													
		STU	0500	0129	34540	2768	0004381	0383	14628													
137		OBS	0500	0129	34540	2768			14628													

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 SPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE		75564N	069340W	255	59	07	27	147	1970	HE3	027	0457	00	0	X		44	X	9	0027	
						WATER		WIND		BARO- METER	AIR TEMP. °C		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANSL IM	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB		NO. OBS. DEPTHS								
						DT	SD	10	SC4	145	000	000	5									
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	CLD					
		STU	0000	-0052	3150	2533	0026550	0000	14420													
167		OBS	0000	-0052	31500	2533			14420													
		STU	0010	-0115	3239	2607	0019526	0023	14405													
167		OBS	0010	-0115	32390	2607			14405													
		STU	0020	-0129	3256	2655	0014948	0040	14408													
167		OBS	0020	-0129	32560	2655			14408													
		STU	0030	-0144	3330	2681	0012444	0054	14407													
167		OBS	0030	-0144	33300	2681			14407													
		STU	0050	-0163	3354	2701	0010539	0077	14405													
167		OBS	0050	-0163	33540	2701			14405													
		STU	0075	-0172	3357	2704	0010276	0103	14405													
167		OBS	0075	-0172	33570	2704			14405													
		STU	0100	-0164	3357	2703	0010279	0128	14413													
167		OBS	0100	-0164	33570	2703			14413													
		STL	0125	-0136	3363	2708	0009885	0153	14431													
167		OBS	0125	-0136	33630	2708			14431													
		STU	0150	-0062	3370	2711	0009605	0178	14471													
167		OBS	0150	-0062	33700	2711			14471													
		STU	0175	-0015	33800	2717			14498													
167		OBS	0175	-0015	33800	2717			14498													
		STU	0200	0045	3392	2723	0008459	0223	14532													
167		OBS	0200	0045	33920	2723			14532													
		STU	0225	0063	34050	2733			14546													
167		OBS	0225	0063	34050	2733			14546													
		STU	0250	0104	3415	2738	0007094	0262	14570													
167		OBS	0250	0104	34150	2738			14570													
		STL	0300	0175	3431	2746	0006413	0296	14612													
167		OBS	0300	0175	34310	2746			14612													
		STU	0400	0155	3447	2760	0005091	0353	14622													
167		OBS	0400	0155	34470	2760			14622													

REFERENCE CITY CODE	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		NOCC STATION NUMBER		
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
316180		WE	7043N	06500W		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	METER (mbars)	DRY BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						0T	SD	16	SC5	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 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	σ _t C
		STC	0000	-0012	3230	2596	0020575	0000	14450								
180		UBS	0000	-0012	32300	2596			14450								
		STC	0010	-0015	3270	2628	0017492	0019	14450								
186		UBS	0010	-0015	32700	2628			14456								
		STC	0020	-0015	3266	2641	0016266	0035	14460								
180		UBS	0020	-0015	32660	2641			14460								
		STC	0030	-0033	3304	2656	0014814	0051	14455								
180		UBS	0030	-0033	33040	2656			14455								
		STC	0050	-0083	3334	2602	0012322	0078	14440								
186		UBS	0050	-0083	33340	2682			14440								
		STC	0075	-0148	3346	2694	0011170	0108	14415								
180		UBS	0075	-0148	33460	2694			14415								
		STC	0100	-0141	3356	2702	0010421	0135	14424								
180		UBS	0100	-0141	33560	2702			14424								

REFERENCE CITY CODE	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		NOCC STATION NUMBER		
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
316180		WE	70120N	065470W		259	69	07	27	263	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	METER (mbars)	DRY BULB	WET BULB	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						0T	SD	16	SC5	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 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	σ _t C
		STC	0000	0000	3160	2539	0025978	0000	14446								
203		UBS	0000	0000	31600	2539			14446								
		STC	0010	-0053	3216	2586	0021485	0023	14431								
203		UBS	0010	-0053	32160	2586			14431								
		STC	0020	-0048	3267	2643	0016056	0042	14444								
203		UBS	0020	-0048	32670	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	-0100	3368	2710	0009010	0163	14449								
203		UBS	0125	-0100	33680	2710			14449								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NDDC STATION NUMBER		
CRUISE CODE	ID. NO.					10'	1'	MD	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA	TYPE
31818U		WE	78240N	073230W		260	83	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 (mb)	DRY RULR	WET RULR	VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		DT	SD	C2	S14	149	C11	000	7														
MESSNGR TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-3107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD 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	σ _t	σ _c					
		STD	0000	0180	3200	2561	0023884	0000	14533														
198		UBS	0000	0180	3200	2561			14533														
		STD	0010	-0052	3220	2589	0021177	0022	14432														
198		UBS	0010	-0052	3220	2589			14432														
		STD	0020	-0070	3230	2598	0020327	0043	14423														
198		UBS	0020	-0070	3230	2598			14423														
		STD	0030	-0095	3254	2650	0015351	0061	14425														
198		UBS	0030	-0095	3254	2650			14425														
		STD	0050	-0105	3317	2669	0013548	0090	14427														
198		UBS	0050	-0105	3317	2669			14427														
		STD	0075	-0109	3329	2679	0012602	0122	14431														
198		UBS	0075	-0109	3329	2679			14431														
		STD	0100	-0110	3348	2695	0011125	0152	14437														
198		UBS	0100	-0110	3348	2695			14437														
		STD	0125	-0108	3358	2703	0010355	0179	14444														
198		UBS	0125	-0108	3358	2703			14444														
		STD	0150	-0100	3369	2701	0010539	0205	14545														
198		UBS	0150	-0100	3369	2701			14545														
		STD	0175	-0092	3389	2727			14464														
198		UBS	0175	-0092	3389	2727			14464														
		STD	0200	-0082	3396	2732	0007522	0250	14474														
198		UBS	0200	-0082	3396	2732			14474														
		STD	0225	-0073	3396	2732			14482														
198		UBS	0225	-0073	3396	2732			14482														
		STD	0250	-0058	3403	2737	0007080	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	0382	14530														
198		UBS	0400	-0040	3419	2749			14530														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NDDC STATION NUMBER		
CRUISE CODE	ID. NO.					10'	1'	MD	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA	TYPE
31818U		WE	78240N	073230W		260	83	07	30	198	1970	WE3	031	0555		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 (mb)	DRY RULR	WET RULR	VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		DT	SD	C2	S14	149	C11	000	7														
MESSNGR TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-3107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD 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	σ _t	σ _c					
		STD	0000	0000	3150	2531	0020740	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	0010181	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	0009907	0209	14444														
224		UBS	0125	-0109	3363	2707			14444														
		STD	0150	-0093	3380	2720	0008717	0232	14458														
224		UBS	0150	-0093	3380	2720			14458														
		STD	0175	-0075	3352	2729			14472														
224		UBS	0175	-0075	3352	2729			14472														
		STD	0200	-0070	3397	2733	0007493	0273	14479														
224		UBS	0200	-0070	3397	2733			14479														
		STD	0225	-0055	3405	2739			14492														
224		UBS	0225	-0055	3405	2739			14492														
		STD	0250	-0055	3407	2740	0006785	0309	14496														
224		UBS	0250	-0055	3407	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		SNIP CODE	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				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TPPL	AMT		
318180	WE		78313N	074220W	266	64	07	31	005	1970	WE3	032	0357		00	0	X		00	3	1		0032	
		WATER		WIND		BARO-METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE															
		07	50	04	512	126	032	006	9															

MESSNGR TIME OF 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	Si O ₄ -Si μg - at/l	pH	NOCS
		STO	0000	-0134	3160	2555	0024020	0000	14386								
005		0BS	0000	-0134	3160C	2555			14386								
		STO	0010	-0135	3200	2576	0022470	0023	14390								
005		0BS	0010	-0135	3200C	2576			14390								
		STO	0020	-0146	3216	2585	0021211	0045	14389								
005		0BS	0020	-0146	3216C	2585			14389								
		STO	0030	-0154	3244	2612	0019026	0065	14390								
005		0BS	0030	-0154	3244C	2612			14390								
		STO	0050	-0150	3266	2629	0017330	0101	14399								
005		0BS	0050	-0150	3266C	2629			14399								
		STL	0075	-0147	3311	2666	0013867	0140	14411								
005		0BS	0075	-0147	3311C	2666			14411								
		STC	0100	-0145	3336	2686	0011936	0172	14419								
005		0BS	0100	-0145	3336C	2686			14419								
		STO	0125	-0114	3351	2657	0010667	0201	14440								
005		0BS	0125	-0114	3351C	2657			14440								
		STO	0150	-0100	3363	2706	0009994	0227	14452								
005		0BS	0150	-0100	3363C	2706			14452								
		STO	0175	-0068	3382C	2721			14465								
005		0BS	0175	-0068	3382C	2721			14465								
		STC	0200	-0066	3400	2735	0007279	0270	14482								
005		0BS	0200	-0066	3400C	2735			14482								
		STO	0225	-0052	34050	2738			14493								
005		0BS	0225	-0052	34050	2738			14493								
		STC	0250	-0052	3410C	2743	0006571	0305	14496								
005		0BS	0250	-0052	3410C	2743			14496								
		STC	0300	-0048	3417	2748	0006040	0336	14509								
005		0BS	0300	-0048	3417C	2748			14509								

REFERENCE		SNIP CODE	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				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TPPL	AMT		
310100	WE		77240N	075150W	260	75	07	31	071	1970	WE3	033	0625		09	2	2		02	6	1		0033	
		WATER		WIND		BARO-METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE															
		07	50	05	516	114	034	019	9															

MESSNGR TIME OF 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	Si O ₄ -Si μg - at/l	pH	NOCS
		STO	0000	0040	3160	2537	0026151	0000	14464								
071		0BS	0000	0040	3160C	2537			14464								
		STC	0010	0060	3180	2552	0024714	0025	14478								
071		0BS	0010	0060	3180C	2552			14478								
		STC	0020	0064	3250	2607	0019494	0047	14500								
071		0BS	0020	0064	3250C	2607			14500								
		STO	0030	0065	3266	2621	0018179	0066	14495								
071		0BS	0030	0065	3266C	2621			14495								
		STO	0050	-0022	3264	2640	0016381	0100	14461								
071		0BS	0050	-0022	3264C	2640			14461								
		STC	0075	-0075	3301	2655	0014859	0140	14443								
071		0BS	0075	-0075	3301C	2655			14443								
		STC	0100	-0148	3317	2671	0013389	0175	14415								
071		0BS	0100	-0148	3317C	2671			14415								
		STO	0125	-0146	3325	2677	0012758	0206	14421								
071		0BS	0125	-0146	3325C	2677			14421								
		STO	0150	-0148	3338	2688	0011739	0238	14426								
071		0BS	0150	-0148	3338C	2688			14426								
		STO	0200	-0120	3374	2716	0009048	0290	14453								
071		0BS	0200	-0120	3374C	2716			14453								
		STO	0225	-0060	33860	2723			14487								
071		0BS	0225	-0060	33860	2723			14487								
		STO	0250	-0010	3393	2727	0008076	0333	14515								
071		0BS	0250	-0010	3393C	2727			14515								
		STL	0300	-0010	3412	2742	0006620	0370	14520								
071		0BS	0300	-0010	3412C	2742			14520								
		STC	0400	-0045	3418	2745	0005955	0433	14527								
071		0BS	0400	-0045	3418C	2745			14527								
		STC	0500	-0045	3425	2754	0005402	0469	14545								
071		0BS	0500	-0045	3425C	2754			14545								
		STC	0600	-0040	3431	2755	0004959	0541	14565								
071		0BS	0600	-0040	3431C	2755			14565								

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	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
518180	WE		7654UN	07131UN	260	61	07	31	145	1976	WE3	034	1004		30	2	2	02	6	1	0034

WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTNS	SPECIAL OBSERVATIONS
COLOR	COOE	TRANS. 1m	DIR.	SPEED OR FORCE	BARD- METER (mba)		
DT	SD	16	S12	C45	U40	U34	9

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-3107	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	S CC
		STD	0000	0250	3120	2492	0030434	0000	14553								
	145	OBS	0000	0250	31200	2492			14553								
		STL	0010	0225	3200	2590	0024104	0027	14554								
	145	OBS	0010	0225	32000	2590			14554								
		STL	0020	0020	3300	2651	0015354	0047	14473								
	145	OBS	0020	0020	33000	2651			14478								
		STD	0030	-0025	3321	2671	0013391	0001	14443								
	145	OBS	0030	-0025	33210	2671			14443								
		STL	0050	-0137	3344	2692	0011383	0006	14416								
	145	OBS	0050	-0137	33440	2692			14416								
		STL	0075	-0160	3360	2706	0010072	0113	14411								
	145	OBS	0075	-0160	33600	2706			14411								
		STD	0100	-0172	3366	2711	0009564	0137	14411								
	145	OBS	0100	-0172	33660	2711			14411								
		STL	0125	-0156	3370	2714	0009281	0161	14422								
	145	OBS	0125	-0156	33700	2714			14422								
		STD	0150	-0022	3373	2714	0009299	0184	14462								
	145	OBS	0150	-0022	33730	2714			14462								
	145	OBS	0175	-0035	33810	2718			14489								
		STD	0200	-0014	3390	2725	0008290	0228	14504								
	145	OBS	0200	-0014	33900	2725			14504								
	145	OBS	0225	0022	34000	2731			14526								
		STL	0250	0030	3405	2735	0007385	0207	14535								
	145	OBS	0250	0030	34050	2735			14535								
		STL	0300	0054	3416	2740	0006949	0303	14573								
	145	OBS	0300	0053	34160	2740			14573								
		STL	0400	0106	3434	2755	0005692	0360	14598								
	145	OBS	0400	0106	34340	2753			14598								
		STD	0500	0100	3440	2758	0005219	0421	14613								
	145	OBS	0500	0100	34400	2758			14613								
		STD	0600	0091	3443	2761	0004935	0471	14626								
	145	OBS	0600	0091	34430	2761			14626								
		STL	0700	0090	3446	2764	0004725	0520	14642								
	145	OBS	0700	0090	34460	2764			14642								
		STL	0800	0090	3448	2766	0004588	0566	14659								
	145	OBS	0800	0090	34480	2766			14659								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN 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	
CTRY CODE	IO. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR				HGT
31d180		WE	7c4b3N	C7c110W	2c0	62	07	31	168	1970	WE3	035	0466		03	2	2	02	6	1	0035
		WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	OIL	SPEED OF FORCE	BARO-METER (mbs)	DRY RULR	WET RULR	VIS. CODE	NO. OBS. DEPTHS											
		DT	SO	1c	S12	C45	C46	U34	9												

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 ₂ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD
		STO	0000	02e5	32e5	2606	0019561	0000	14579								
	1e0	OBS	0000	0265	32650	2606			14579								
		STO	0010	0250	3270	2612	0019066	0019	14575								
	168	OBS	0010	0250	32700	2612			14575								
		STO	0020	0170	3275	2622	0018114	0037	14542								
	168	OBS	0020	-0170	32750	2622			14542								
		STO	0030	-0050	3325	2675	0012991	0053	14432								
	168	OBS	0030	-0050	33250	2675			14432								
		STO	0050	-0148	3354	2701	0010587	0077	14412								
	1e0	OBS	0050	-0148	33540	2701			14412								
		STO	0075	-0166	3365	2710	0009073	0102	14409								
	168	OBS	0075	-0166	33650	2710			14409								
		STO	0100	-0150	3373	2710	0009092	0125	14422								
	168	OBS	0100	-0150	33730	2710			14422								
		STO	0125	-0100	3380	2720	0008699	0148	14451								
	1e0	OBS	0125	-0100	33800	2720			14451								
		STO	0150	-0028	3391	2726	0008160	0109	14490								
	168	OBS	0150	-0028	33910	2726			14490								
	168	OBS	0175	0023	34000	2731			14519								
		STO	0200	0071	3408	2735	0007402	0208	14546								
	1e0	OBS	0200	0071	34080	2735			14546								
	168	OBS	0225	0086	34120	2737			14557								
		STO	0250	0055	3417	2740	0006881	0243	14566								
	1e0	OBS	0250	0055	34170	2740			14566								
		STO	0300	0085	3424	2747	0006286	0276	14571								
	168	OBS	0300	0085	34240	2747			14571								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN 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	
CTRY CODE	IO. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR				HGT
31B180		WE	76410N	C73380W	2c0	63	07	31	207	1970	WE3	036	0549		04	0	1	03	7	6	0036
		WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	OIL	SPEED OF FORCE	BARO-METER (mbs)	DRY RULR	WET RULR	VIS. CODE	NO. OBS. DEPTHS											
		LT	SO	C9	S16	C66	031	024	7												

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 ₂ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD
		STO	0000	0242	3280	2620	0018247	0000	14571								
	207	OBS	0000	0242	32800	2620			14571								
		STO	0010	0205	3280	2623	0017978	0018	14550								
	207	OBS	0010	0205	32800	2623			14556								
		STO	0020	0010	3310	2655	0014549	0034	14474								
	207	OBS	0020	0010	33100	2655			14474								
		STO	0030	-0055	3331	2680	0012521	0047	14430								
	207	OBS	0030	-0055	33310	2680			14430								
		STO	0050	-0122	3346	2693	0011268	0071	14423								
	207	OBS	0050	-0122	33460	2693			14423								
		STO	0075	-0149	3357	2703	0010336	0098	14416								
	207	OBS	0075	-0149	33570	2703			14416								
		STO	0100	-0150	3366	2710	0009025	0123	14421								
	207	OBS	0100	-0150	33660	2710			14421								
		STO	0125	-0125	3371	2714	0009303	0147	14438								
	207	OBS	0125	-0125	33710	2714			14438								
		STO	0150	-0067	3377	2717	0008972	0170	14460								
	207	OBS	0150	-0067	33770	2717			14460								
	207	OBS	0175	-0045	33870	2724			14485								
		STO	0200	0006	3393	2726	0008167	0213	14514								
	207	OBS	0200	0006	33930	2726			14514								
	207	OBS	0225	0028	34030	2733			14529								
		STO	0250	0074	3411	2737	0007199	0251	14550								
	207	OBS	0250	0074	34110	2737			14550								
		STO	0300	0066	3420	2745	0006468	0285	14562								
	207	OBS	0300	0066	34200	2745			14562								
		STO	0400	-0028	3424	2753	0005598	0345	14536								
	207	OBS	0400	-0028	34240	2753			14536								
		STO	0500	-0020	3431	2758	0005098	0399	14557								
	207	OBS	0500	-0020	34310	2758			14557								

REFERENCE		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 SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA			
310100	WE	76390N	074350W	200	64	07	31	228	1970	WE3	037	0500	04	U	1	03	7	6	0037			
						WATER		WIND		BARO- METER		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									
						DT	SD	CS	SIC	C06	031	024	7									

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 - 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
		STD	0000	0235	3265	2665	0017813	0000	14565								
228		OBS	0000	0235	32850	2625			14509								
		STD	0010	0235	32880	2627	0017589	0017	14571								
228		OBS	0010	0235	32880	2627			14571								
		STD	0020	0222	3257	2635	0010813	0034	14560								
228		OBS	0020	0222	32570	2635			14560								
		STD	0030	-0012	3316	2665	0013984	0050	14607								
228		OBS	0030	-0012	33160	2665			14607								
		STD	0050	-0112	3330	2687	0011911	0076	14427								
228		OBS	0050	-0112	33300	2687			14427								
		STD	0075	-0132	3356	2702	0010457	0104	14424								
228		OBS	0075	-0132	33560	2702			14424								
		STD	0100	-0137	3362	2707	0009971	0129	14427								
228		OBS	0100	-0137	33620	2707			14427								
		STD	0125	-0140	3367	2711	0003550	0154	14430								
228		OBS	0125	-0140	33670	2711			14430								
		STD	0150	-0133	3365	2712	0009420	0177	14438								
228		OBS	0150	-0133	33650	2712			14438								
		STD	0200	-0060	3365	2723	0008369	0222	14473								
228		OBS	0200	-0060	33650	2723			14473								
		STD	0225	-0055	33520	2728			14490								
228		OBS	0225	-0055	33520	2728			14490								
		STD	0250	-0043	3400	2734	0007378	0201	14501								
228		OBS	0250	-0043	34000	2734			14501								
		STD	0300	0006	3412	2741	0006714	0296	14533								
228		OBS	0300	0006	34120	2741			14533								
		STD	0400	-0037	3421	2751	0005770	0359	14531								
228		OBS	0400	-0037	34210	2751			14531								
		STD	0500	-0020	3425	2753	0005545	0416	14550								
228		OBS	0500	-0020	34250	2753			14550								

REFERENCE		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 SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA			
310100	WE	76350N	075435W	200	65	08	01	012	1970	WE3	038	0284	04	2	2	00	X	0	0038			
						WATER		WIND		BARO- METER		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									
						DT	SD	CS	SIC	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 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
		STD	0000	0150	3275	2620	0018247	0000	14547								
		OBS	0000	0150	32750	2620			14547								
		STD	0010	0150	3277	2622	0018104	0018	14549								
012		OBS	0010	0150	32770	2622			14549								
		STD	0020	0150	3277	2622	0018106	0030	14551								
012		OBS	0020	0150	32770	2622			14551								
		STD	0030	0080	3284	2634	0016886	0053	14504								
012		OBS	0030	0080	32840	2634			14504								
		STD	0050	-0132	3323	2675	0013002	0083	14415								
012		OBS	0050	-0132	33230	2675			14415								
		STD	0075	-0137	3343	2691	0011440	0114	14420								
012		OBS	0075	-0137	33430	2691			14420								
		STD	0100	-0140	3352	2699	0010728	0141	14424								
012		OBS	0100	-0140	33520	2699			14424								
		STD	0125	-0146	3353	2700	0010620	0168	14425								
J12		OBS	0125	-0146	33530	2700			14425								
		STD	0150	-0141	3261	2706	0010003	0194	14433								
J12		OBS	0150	-0141	32610	2706			14433								
012		OBS	0175	-0122	33680	2711			14447								
		STD	0200	-0100	3377	2718	0008858	0241	14463								
012		OBS	0200	-0100	33770	2718			14463								
		STD	0225	-0046	33870	2724			14493								

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	NOCC STATION NUMBER	
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER
518180	WE	76325N	076415W	260	66	CE	01	025	1970	WE3	039	0185	00	0	X	00	U	0	0039		
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		03		S13		C98		C33		025		7							

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μ g - ml/l	TOTAL-P μ g - ml/l	NO ₂ -N μ g - ml/l	NO ₃ -N μ g - ml/l	SI O ₄ -Si μ g - ml/l	pH	S.C.C.
		STC	0000	0280	3280	2617	0018537	0000	14588								
029		OBS	0000	0280	32800	2617			14588								
		STD	0010	0266	3284	2621	0018133	0018	14584								
029		OBS	0010	0266	32840	2621			14584								
		STD	0020	0264	3287	2624	0017893	0036	14585								
029		OBS	0020	0264	32870	2624			14585								
		STD	0030	0255	3290	2627	0017597	0054	14583								
029		OBS	0030	0255	32900	2627			14583								
		STD	0050	-0120	3308	2663	0014187	0085	14419								
029		OBS	0050	-0120	33080	2663			14419								
		STD	0075	-0149	3325	2677	0012792	0119	14412								
029		OBS	0075	-0149	33250	2677			14412								
		STD	0100	-0154	3337	2687	0011834	0150	14415								
029		OBS	0100	-0154	33370	2687			14415								
		STD	0125	-0147	3346	2694	0011152	0179	14424								
029		OBS	0125	-0147	33460	2694			14424								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER	
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER
518180	WE	76275N	077520W	260	07	0E	01	040	1970	WE3	040	0340	00	0	X	00	2	1	0040		
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											
UT		SD		03		S13		C98		C33		025		8							

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μ g - ml/l	TOTAL-P μ g - ml/l	NO ₂ -N μ g - ml/l	NO ₃ -N μ g - ml/l	SI O ₄ -Si μ g - ml/l	pH	S.C.C.
		STD	0000	0365	3280	2609	0019262	0000	14624								
046		OBS	0000	0365	32800	2609			14624								
		STD	0010	0360	3280	2610	0019222	0019	14624								
046		OBS	0010	0360	32800	2610			14624								
		STD	0020	0320	3280	2614	0018882	0038	14608								
046		OBS	0020	0320	32800	2614			14608								
		STD	0030	0010	3285	2639	0016455	0056	14473								
046		OBS	0030	0010	32850	2639			14473								
		STD	0050	-0140	3316	2670	0013516	0085	14410								
046		OBS	0050	-0140	33160	2670			14410								
		STD	0075	-0151	3334	2684	0012096	0117	14412								
046		OBS	0075	-0151	33340	2684			14412								
		STD	0100	-0154	3341	2690	0011527	0147	14416								
046		OBS	0100	-0154	33410	2690			14416								
		STD	0125	-0152	3351	2698	0010753	0175	14422								
046		OBS	0125	-0152	33510	2698			14422								
		STD	0150	-0150	3356	2702	0010359	0201	14428								
046		OBS	0150	-0150	33560	2702			14428								
		STD	0200	-0147	33630	2708			14434								
046		OBS	0200	-0148	3368	2712	0009419	0251	14439								
		STD	0225	-0139	33730	2716			14448								
046		OBS	0225	-0139	33730	2716			14448								
		STD	0250	-0125	3375	2720	0008622	0296	14460								
046		OBS	0250	-0125	33750	2720			14460								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE INDIC	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318180	WE		7020UN	078550W	260	08	08	01	080	1970	WE3	041	0320		03	3	2		02	4	1	0041
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE	(mbs)	DRY BULB	WET BULB											
					LT	SO	CS	S13	CS0	C33	025	0										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{t0}	$\Sigma \Delta O$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₂ -S $\mu g - \mu l/l$	pH	S C C
		STD	0000	0200	3140	2512	0020573	0000	14533								
06d		UBS	0000	0200	31400	2512			14533								
		STD	0010	0250	3150	2548	0025128	0026	14504								
06d		UBS	0010	0250	31500	2548			14504								
		STD	0020	0200	3240	2551	0020977	0049	14550								
06d		UBS	0020	0200	32400	2551			14550								
		STD	0030	0165	3270	2618	0018468	0069	14541								
06d		UBS	0030	0165	32700	2618			14541								
		STD	0050	-0030	3302	2654	0014909	0103	14460								
06d		UBS	0050	-0030	33020	2654			14460								
		STD	0075	-0115	3326	2677	0012809	0137	14428								
06d		UBS	0075	-0115	33260	2677			14426								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE INDIC	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318180	WE		70115N	079075W	260	09	08	01	080	1970	WE3	042	0110		05	0	2		03	4	2	0042
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE	(mbs)	DRY BULB	WET BULB											
					DT	SO	CS	S11	111	024	016	0										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{t0}	$\Sigma \Delta O$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₂ -S $\mu g - \mu l/l$	pH	S C C
		STD	0000	0180	3100	2481	0031487	0000	14519								
084		UBS	0000	0180	31000	2481			14519								
		STD	0010	0190	3120	2496	0030025	0030	14528								
084		UBS	0010	0190	31200	2496			14528								
		STD	0020	0205	3170	2535	0026324	0058	14543								
084		UBS	0020	0205	31700	2535			14543								
		STD	0030	0120	3230	2585	0021225	0082	14515								
084		UBS	0030	0120	32300	2585			14515								
		STD	0050	-0062	3300	2654	0015000	0118	14445								
084		UBS	0050	-0062	33000	2654			14445								
		STD	0075	-0130	3336	2686	0012001	0152	14422								
084		UBS	0075	-0130	33360	2686			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 S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CRUISE NO.	ID. NO.						10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT
318180	WE		75430N	079460W		26C	59	06	01	144	1970	WE3	043		00	0	X		01	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		DRY BULB		WET BULB														
DT		SU		CC		SOC		117		016		003		9										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DTN. 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	0000	-0035	3150	2532	0026013	0000	14428								
144		OBS	0000	-0035	31500	2532			14428								
		STD	0010	-0110	3260	2640	0010394	0021	14413								
144		OBS	0010	-0110	32600	2640			14413								
		STD	0020	-0145	3310	2665	0013988	0030	14402								
144		OBS	0020	-0145	33100	2665			14402								
		STD	0030	-0145	3316	2670	0013520	0050	14405								
144		OBS	0030	-0145	33160	2670			14405								
		STD	0050	-0151	3320	2673	0013179	0077	14406								
144		OBS	0050	-0151	33200	2673			14406								
		STD	0075	-0151	3324	2670	0012855	0109	14411								
144		OBS	0075	-0151	33240	2670			14411								
		STD	0100	-0105	3326	2678	0012052	0141	14408								
144		OBS	0100	-0105	33260	2678			14408								
		STD	0125	-0150	3325	2681	0012430	0172	14417								
144		OBS	0125	-0150	33250	2681			14417								
		STD	0150	-0134	3337	2688	0011863	0203	14433								
144		OBS	0150	-0134	33370	2688			14433								
		STD	0200	-0168	3353	2700	0010505	0259	14427								
144		OBS	0200	-0168	33530	2700			14427								
		STD	0225	-0160	33600	2706			14433								
144		OBS	0225	-0160	33600	2706			14433								
		STD	0250	-0148	3366	2710	0009541	0309	14447								
144		OBS	0250	-0148	33660	2710			14447								
		STD	0300	-0100	3367	2726	0008068	0353	14481								
144		OBS	0300	-0100	33670	2726			14481								
		STD	0400	-0017	3416	2746	0000204	0425	14540								
144		OBS	0400	-0017	34160	2746			14540								
		STD	0500	-0007	3426	2753	0005545	0484	14502								
144		OBS	0500	-0007	34260	2753			14502								

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 S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CRUISE NO.	ID. NO.						10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT
318180	WE		75380N	079455W		26C	59	08	01	155	1970	WE3	044		00	0	X		01	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		DRY BULB		WET BULB														
DT		SU		CC		SOC		119		044		027		9										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DTN. 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	0000	-0015	3160	2556	0024382	0000	14442								
155		OBS	0000	-0015	31800	2556			14442								
		STD	0010	-0053	3275	2634	0016500	0020	14439								
155		OBS	0010	-0053	32750	2634			14439								
		STD	0020	-0130	3297	2654	0015029	0036	14408								
155		OBS	0020	-0130	32970	2654			14408								
		STD	0030	-0141	3310	2665	0013990	0051	14400								
155		OBS	0030	-0141	33100	2665			14400								
		STD	0050	-0144	3318	2671	0013352	0078	14409								
155		OBS	0050	-0144	33180	2671			14409								
		STD	0075	-0146	3323	2676	0012946	0111	14412								
155		OBS	0075	-0146	33230	2676			14412								
		STD	0100	-0150	3326	2678	0012673	0143	14413								
155		OBS	0100	-0150	33260	2678			14413								
		STD	0125	-0147	3333	2684	0012144	0174	14422								
155		OBS	0125	-0147	33330	2684			14422								
		STD	0150	-0104	3340	2690	0011543	0204	14419								
155		OBS	0150	-0104	33400	2690			14419								
		STD	0200	-0175	33440	2653			14419								
155		OBS	0200	-0175	33440	2653			14419								
		STD	0200	-0144	3354	2701	0010502	0259	14439								
155		OBS	0200	-0144	33540	2701			14439								
		STD	0225	-0140	33590	2705			14442								
155		OBS	0225	-0140	33590	2705			14442								
		STD	0250	-0154	3364	2705	0009071	0309	14444								
155		OBS	0250	-0154	33640	2705			14444								
		STD	0300	-0130	3372	2715	0009009	0350	14462								
155		OBS	0300	-0130	33720	2715			14462								
		STD	0400	-0020	3412	2743	0006548	0434	14538								
155		OBS	0400	-0020	34120	2743			14538								
		STD	0500	-0003	3424	2752	0005721	0490	14504								
155		OBS	0500	-0003	34240	2752			14504								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN MO	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	SEA	TYPE	AMT																											
518180	WE		75120N	078400W	20	06	01	160	1970	WE3	045	0603		00	0	X		02	37	0045																															
<table border="1"> <thead> <tr> <th colspan="3">WATER</th> <th colspan="3">WIND</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIL 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>DIR.</th> <th>SPD OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>SD</td> <td>17</td> <td>S11</td> <td>C50</td> <td>C56</td> <td>043</td> <td>7</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	SPD OR FORCE	DRY BULB	WET BULB	01	SD	17	S11	C50	C56	043	7			
WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																								
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	SPD OR FORCE		DRY BULB	WET BULB																																											
01	SD	17	S11	C50	C56	043	7																																												
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D 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 ₂ -Si μg - at/l	pH	S CC																																		
		STC	0000	0370	3285	2613	0018927	0000	14627																																										
186		UBS	0000	0370	32850	2613			14627																																										
		STC	0010	0340	3285	2614	0018842	0018	14624																																										
186		UBS	0010	0360	32850	2614			14624																																										
		STC	0020	0156	3255	2635	0010406	0036	14536																																										
186		UBS	0020	0150	32550	2635			14536																																										
		STC	0030	-0027	3315	2665	0014000	0051	14460																																										
186		UBS	0030	-0027	33150	2665			14460																																										
		STC	0050	-0128	3344	2692	0011403	0077	14420																																										
186		UBS	0050	-0128	33440	2692			14420																																										
		STC	0075	-0150	3353	2700	0010633	0104	14415																																										
186		UBS	0075	-0150	33530	2700			14415																																										
		STC	0100	-0153	3361	2706	0010003	0130	14419																																										
186		UBS	0100	-0153	33610	2706			14419																																										
		STC	0125	-0150	3366	2710	0009609	0153	14423																																										
186		UBS	0125	-0150	33660	2710			14423																																										
		STC	0150	-0144	3370	2713	0009307	0178	14433																																										
186		UBS	0150	-0144	33700	2713			14433																																										
		STC	0250	-0023	3407	2737	0007191	0200	14532																																										
186		UBS	0250	-0023	34070	2737			14532																																										
		STC	0300	0018	3416	2744	0006473	0294	14539																																										
186		UBS	0300	0018	34160	2744			14539																																										
		STC	0400	-0023	3425	2753	0005549	0354	14538																																										
186		UBS	0400	-0023	34250	2753			14538																																										
		STC	0500	0009	3430	2756	0005344	0409	14570																																										
186		UBS	0500	0009	34300	2756			14570																																										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN MO	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	SEA	TYPE	AMT																											
518180	WE		75240N	077560W	20	07	01	222	1970	WE3	046	0448		00	0	X		03	38	0046																															
<table border="1"> <thead> <tr> <th colspan="3">WATER</th> <th colspan="3">WIND</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">VIL 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>DIR.</th> <th>SPD OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>SD</td> <td>04</td> <td>S11</td> <td>1C9</td> <td>03B</td> <td>002</td> <td>7</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	SPD OR FORCE	DRY BULB	WET BULB	01	SD	04	S11	1C9	03B	002	7			
WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																								
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	SPD OR FORCE		DRY BULB	WET BULB																																											
01	SD	04	S11	1C9	03B	002	7																																												
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D 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 ₂ -Si μg - at/l	pH	S CC																																		
222		STC	0000	0460	3282	2602	0020023	0000	14604																																										
		UBS	0000	0460	32820	2602			14604																																										
		STC	0010	0450	3282	2603	0019931	0020	14602																																										
222		UBS	0010	0450	32820	2603			14602																																										
		STC	0020	0360	3255	2620	0018279	0039	14636																																										
222		UBS	0020	0360	32550	2620			14636																																										
		STC	0030	-0105	3334	2683	0012258	0054	14426																																										
222		UBS	0030	-0105	33340	2683			14426																																										
		STC	0050	-0140	3347	2695	0011139	0077	14415																																										
222		UBS	0050	-0140	33470	2695			14415																																										
		STC	0075	-0163	3355	2702	0010450	0104	14409																																										
222		UBS	0075	-0163	33550	2702			14409																																										
		STC	0100	-0172	3357	2704	0010259	0130	14409																																										
222		UBS	0100	-0172	33570	2704			14409																																										
		STC	0125	-0173	3355	2705	0010076	0156	14413																																										
222		UBS	0125	-0173	33550	2705			14413																																										
		STC	0150	-0168	3364	2705	0009693	0180	14421																																										
222		UBS	0150	-0168	33640	2705			14421																																										
		STC	0200	-0147	33700	2714			14435																																										
222		UBS	0200	-0147	33700	2714			14435																																										
		STC	0200	-0130	3380	2721	0008556	0226	14449																																										
222		UBS	0200	-0130	33800	2721			14449																																										
		STC	0250	-0020	33560	2730			14502																																										
222		UBS	0250	-0020	33560	2730			14502																																										
		STC	0250	0020	3406	2735	0007304	0266	14535																																										
222		UBS	0250	0020	34060	2735			14535																																										
		STC	0300	0027	3415	2743	0006606	0300	14543																																										
222		UBS	0300	0027	34150	2743			14543																																										

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		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318180		WE	75350N	077140W		260	57	08	02	002	1970	HE3	047	0366		06	1	X		02	7	8	0047
		WATER		WIND		BARO-METER		AIR TEMP. °C				SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB	VIS. CODE		NO. OBS. DEPTHS											
		UT	SD	03	SO5	124		022	019	7													

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ 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	COND.
		STD	0000	0480	3278	2556	0020521	0000	14672								
002		UBS	0000	0480	32780	2556			14672								
		STD	0010	0442	3283	2604	0019768	0020	14659								
002		UBS	0010	0442	32830	2604			14659								
		STD	0020	0365	3306	2630	0017309	0038	14631								
002		UBS	0020	0365	33060	2630			14631								
		STD	0030	-0030	3332	2675	0012689	0053	14461								
002		UBS	0030	-0030	33320	2675			14461								
		STL	0050	-0134	3355	2701	0010544	0076	14419								
002		UBS	0050	-0134	33550	2701			14419								
		STD	0075	-0148	3364	2705	0009603	0102	14418								
002		UBS	0075	-0148	33640	2705			14418								
		STD	0100	-0125	3370	2713	0009398	0126	14433								
002		UBS	0100	-0125	33700	2713			14433								
		STD	0125	-0100	3377	2718	0008933	0149	14450								
002		UBS	0125	-0100	33770	2718			14450								
		STD	0150	-0050	3385	2723	0008490	0171	14476								
002		UBS	0150	-0050	33850	2723			14476								
		STD	0175	-0025	33920	2727			14495								
002		UBS	0175	-0025	33920	2727			14495								
		STD	0200	0012	3400	2731	0007666	0211	14518								
002		UBS	0200	0012	34000	2731			14518								
		STD	0225	0004	34050	2736			14519								
002		UBS	0225	0004	34050	2736			14519								
		STD	0250	0054	3411	2738	0007069	0248	14547								
002		UBS	0250	0054	34110	2738			14547								
		STD	0300	0005	3423	2750	0005869	0280	14534								
002		UBS	0300	0005	34230	2750			14534								

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		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318180		WE	75430N	076210W		260	56	08	02	010	1970	HE3	048	0320		00	0	X		03	7	8	0048
		WATER		WIND		BARO-METER		AIR TEMP. °C				SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB	VIS. CODE		NO. OBS. DEPTHS											
		DT	SD	C4	SO5	124		022	002	7													

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ 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	COND.
		STD	0000	0480	3280	2558	0020376	0000	14673								
016		UBS	0000	0480	32800	2558			14673								
		STD	0010	0470	3280	2559	0020276	0020	14670								
016		UBS	0010	0470	32800	2559			14670								
		STD	0020	0450	3280	2601	0020084	0040	14663								
016		UBS	0020	0450	32800	2601			14663								
		STL	0030	-0050	3340	2687	0011843	0056	14434								
016		UBS	0030	-0050	33400	2687			14434								
		STD	0050	-0142	3355	2701	0010525	0078	14415								
016		UBS	0050	-0142	33550	2701			14415								
		STD	0075	-0144	3362	2707	0009967	0104	14419								
016		UBS	0075	-0144	33620	2707			14419								
		STD	0100	-0126	3370	2713	0009388	0128	14433								
016		UBS	0100	-0126	33700	2713			14433								
		STD	0125	-0070	3382	2721	0008664	0151	14465								
016		UBS	0125	-0070	33820	2721			14465								
		STD	0150	-0008	3391	2725	0008258	0172	14499								
016		UBS	0150	-0008	33910	2725			14499								
		STD	0175	0062	34060	2734			14537								
016		UBS	0175	0062	34060	2734			14537								
		STD	0200	0108	3410	2734	0007494	0211	14562								
016		UBS	0200	0108	34100	2734			14562								
		STD	0225	0065	34150	2741			14548								
016		UBS	0225	0065	34150	2741			14548								
		STL	0250	0058	3422	2744	0006524	0246	14568								
016		UBS	0250	0058	34220	2744			14568								

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	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
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318180	WE	75517N	075404W	20G	55	08	02	033	1970	WE3	049	0393	00	0	X		02	7	8	0049	
					WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					DT	SD	13	510	124	028	006	7	SPECIAL OBSERVATIONS								
MESSAGE TIME OF HR. /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 $\mu\text{g} \cdot \text{at/l}$	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				
033		STD	0000	0370	3284	2612	0019008	0000	14027												
		UBS	0000	0370	3284	2612			14027												
		STD	0010	0340	3285	2616	0018670	0018	14616												
033		UBS	0010	0340	3285	2616			14616												
		STD	0020	0320	3290	2622	0018122	0037	14609												
033		UBS	0020	0320	3290	2622			14609												
		STD	0030	-0117	3313	2667	0018830	0053	14418												
033		UBS	0030	-0117	3313	2667			14418												
		STD	0050	-0140	3328	2675	0012633	0079	14412												
033		UBS	0050	-0140	3328	2675			14412												
		STD	0075	-0148	3343	2692	0011410	0109	14415												
033		UBS	0075	-0148	3343	2692			14415												
		STD	0100	-0148	3358	2704	0010248	0136	14421												
033		UBS	0100	-0148	3358	2704			14421												
		STD	0125	-0162	3365	2710	0009649	0161	14419												
033		UBS	0125	-0162	3365	2710			14419												
		STD	0150	-0128	3372	2715	0009200	0165	14441												
033		UBS	0150	-0128	3372	2715			14441												
		STD	0175	-0100	3383	2723			14459												
033		UBS	0175	-0100	3383	2723			14459												
		STD	0200	-0030	3397	2731	0007070	0227	14496												
033		UBS	0200	-0030	3397	2731			14496												
		STD	0225	0037	3405	2734			14534												
033		UBS	0225	0037	3405	2734			14534												
		STD	0250	0065	3411	2737	0007139	0264	14552												
033		UBS	0250	0065	3411	2737			14552												
		STD	0300	0014	3420	2747	0005140	0297	14536												
033		UBS	0300	0014	3420	2747			14536												

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	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
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318180	WE	75585N	074404W	20G	54	02	053	1970	WE3	050	0304	22	2	2		02	6	8	0050		
					WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					DT	SD	13	513	120	018	011	7	SPECIAL OBSERVATIONS								
MESSAGE TIME OF HR. /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 $\mu\text{g} \cdot \text{at/l}$	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				
053		STD	0000	0390	3276	2604	0019790	0000	14034												
		UBS	0000	0390	3276	2604			14034												
		STD	0010	0390	3280	2607	0018495	0019	14636												
053		UBS	0010	0390	3280	2607			14636												
		STD	0020	-0070	3322	2672	0013296	0036	14439												
053		UBS	0020	-0070	3322	2672			14439												
		STD	0030	-0120	3333	2683	0012283	0048	14419												
053		UBS	0030	-0120	3333	2683			14419												
		STD	0050	-0148	3350	2697	0010885	0072	14411												
053		UBS	0050	-0148	3350	2697			14411												
		STD	0075	-0158	3358	2704	0010234	0098	14412												
053		UBS	0075	-0158	3358	2704			14412												
		STD	0100	-0130	3369	2712	0009459	0123	14431												
053		UBS	0100	-0130	3369	2712			14431												
		STD	0125	-0105	3380	2720	0008888	0145	14448												
053		UBS	0125	-0105	3380	2720			14448												
		STD	0150	-0014	3389	2724	0008382	0107	14496												
053		UBS	0150	-0014	3389	2724			14496												
		STD	0175	0027	3390	2729			14525												
053		UBS	0175	0027	3390	2729			14525												
		STD	0200	0024	3403	2733	0007502	0206	14524												
053		UBS	0200	0024	3403	2733			14524												
		STD	0225	0080	3413	2734			14554												
053		UBS	0225	0080	3413	2734			14554												
		STD	0250	0086	3417	2741	0008821	0242	14562												
053		UBS	0250	0086	3417	2741			14562												
		STD	0300	0026	3419	2746	0006300	0275	14543												
053		UBS	0300	0026	3419	2746			14543												

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	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			
					10"	1"	MO		DAY	HR./1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE	AMT
313100	WE	70075N	C73450W	26C	03	08	02	C75	157C	WE3	051	0420				12	2	3	02	6	8	0051

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			
DT	SD	22	S13	129	018	011	7		

MESSNGR TIME OF 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 - 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	0340	3255	2552	0020929	0000	14610								
075		UBS	0000	0340	32550	2552			14610								
		STD	0010	0335	3260	2556	0020508	0020	14610								
075		UBS	0010	0335	32600	2556			14610								
		STD	0020	0200	3280	2623	0017943	0039	14550								
075		UBS	0020	0200	32800	2623			14556								
		STD	0030	-0080	3325	2675	0013028	0055	14437								
075		UBS	0030	-0080	33250	2675			14437								
		STD	0050	-0148	3352	2659	0010731	0079	14412								
075		UBS	0050	-0148	33520	2659			14412								
		STD	0075	-0159	3362	2707	0009918	0105	14412								
075		UBS	0075	-0159	33620	2707			14412								
		STD	0100	-0137	3369	2712	0009430	0129	14428								
075		UBS	0100	-0137	33690	2712			14428								
		STD	0125	-0113	3378	2715	0008811	0152	14444								
075		UBS	0125	-0113	33780	2715			14444								
		STD	0150	-0051	3389	2726	0006204	0173	14479								
075		UBS	0150	-0051	33890	2726			14479								
075		UBS	0175	0000	33970	2730			14508								
		STD	0200	0013	3403	2734	0007441	0212	14518								
075		UBS	0200	0013	34030	2734			14518								
075		UBS	0225	0042	34110	2739			14537								
		STD	0250	0066	3412	2738	0007008	0248	14552								
075		UBS	0250	0066	34120	2738			14552								
		STD	0300	0014	3420	2747	0000146	0281	14538								
075		UBS	0300	0014	34200	2747			14538								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	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			
					10"	1"	MO		DAY	HR./1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE	AMT
313100	WE	70145N	C72470W	26C	02	08	02	C07	157C	WE3	052	0494				10	2	2	02	6	8	0052

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			
DT	SD	11	S17	131	C12	006	7		

MESSNGR TIME OF 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 - 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	0340	3285	2616	0018664	0000	14614								
107		UBS	0000	0340	32850	2616			14614								
		STD	0010	0335	3300	2628	0017492	0018	14610								
107		UBS	0010	0335	33000	2628			14610								
		STD	0020	0300	3310	2639	0016446	0035	14604								
107		UBS	0020	0300	33100	2639			14604								
		STD	0030	-0050	3340	2687	0011843	0049	14434								
107		UBS	0030	-0050	33400	2687			14434								
		STD	0050	-0153	3357	2703	0010342	0071	14410								
107		UBS	0050	-0153	33570	2703			14410								
		STD	0075	-0173	3358	2704	0010195	0097	14405								
107		UBS	0075	-0173	33580	2704			14405								
		STD	0100	-0147	3369	2713	0009400	0121	14423								
107		UBS	0100	-0147	33690	2713			14423								
		STD	0125	-0112	3373	2715	0009199	0144	14444								
107		UBS	0125	-0112	33730	2715			14444								
		STD	0150	-0013	3388	2723	0006454	0166	14496								
107		UBS	0150	-0013	33880	2723			14496								
107		UBS	0175	0046	33980	2728			14529								
		STD	0200	0050	3405	2731	0007754	0207	14554								
107		UBS	0200	0050	34050	2731			14554								
107		UBS	0225	0062	34100	2737			14546								
		STD	0250	0071	3412	2738	0007107	0244	14554								
107		UBS	0250	0071	34120	2738			14554								
		STD	0300	0011	3420	2748	0000135	0277	14537								
107		UBS	0300	0011	34200	2748			14537								
		STD	0400	-0014	3433	2759	0004955	0333	14544								
107		UBS	0400	-0014	34330	2759			14544								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDECT	MARSOEN 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
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318180	WE	76210N	072000W	20	02	08	02	114	1570	WE3	053	0507			11	1	2		02	6	8		0053
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																
DT		SO	11	517	135	012	006	7															

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^2$	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	0000	0308	3288	2016	0010082	0000	14626								
114		OBS	0000	0308	32880	2016			14626								
		STD	0010	0360	3250	2018	0018471	0018	14025								
114		OBS	0010	0360	32500	2018			14025								
		STD	0020	-0060	3300	2054	0015015	0035	14441								
114		OBS	0020	-0060	33000	2054			14441								
		STD	0030	-0126	3326	2077	0012807	0049	14415								
114		OBS	0030	-0126	33260	2077			14415								
		STD	0050	-0141	3344	2092	0011305	0073	14414								
114		OBS	0050	-0141	33440	2092			14414								
		STD	0075	-0150	3353	2700	0010653	0100	14415								
114		OBS	0075	-0150	33530	2700			14415								
		STD	0100	-0149	3361	2706	0010013	0126	14421								
114		OBS	0100	-0149	33610	2706			14421								
		STD	0125	-0135	3368	2712	0009457	0151	14433								
114		OBS	0125	-0135	33680	2712			14433								
		STD	0150	-0105	3378	2719	0008829	0174	14452								
114		OBS	0150	-0105	33780	2719			14452								
		STD	0200	-0060	33870	2724			14479								
114		OBS	0200	-0060	33870	2724			14479								
		STD	0220	0004	34000	2732	0007025	0215	14514								
114		OBS	0220	0004	34000	2732			14514								
		STD	0230	0065	34060	2733			14547								
114		OBS	0230	0075	3412	2738	0007120	0252	14556								
		STD	0250	0075	34120	2738			14556								
114		OBS	0300	0062	34220	2740	0006294	0285	14560								
		STD	0300	0062	34220	2740			14560								
		STD	0400	0040	3431	2755	0005468	0344	14568								
114		OBS	0400	0040	34310	2755			14568								
		STD	0500	0035	3436	2759	0005058	0397	14583								
114		OBS	0500	0035	34360	2759			14583								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDECT	MARSOEN 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
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318180	WE	76200N	070540W	20	60	08	02	135	1570	WE3	054	0292			07	0	2		02	6	8		0054
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																
LT		SD	07	503	135	011	007	7															

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^2$	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	0000	0105	3125	2506	0029145	0000	14489								
135		OBS	0000	0105	31250	2506			14489								
		STD	0010	0055	3150	2526	0027182	0028	14489								
135		OBS	0010	0055	31500	2526			14489								
		STD	0020	0005	3280	2635	0016817	0050	14488								
135		OBS	0020	0005	32800	2635			14488								
		STD	0030	-0080	3300	2655	0014945	0066	14433								
135		OBS	0030	-0080	33000	2655			14433								
		STD	0050	-0140	3340	2689	0011681	0092	14414								
135		OBS	0050	-0140	33400	2689			14414								
		STD	0075	-0164	3354	2701	0010522	0120	14409								
135		OBS	0075	-0164	33540	2701			14409								
		STD	0100	-0170	3360	2706	0010034	0146	14411								
135		OBS	0100	-0170	33600	2706			14411								
		STD	0125	-0137	3364	2708	0009803	0170	14431								
135		OBS	0125	-0137	33640	2708			14431								
		STD	0150	-0106	3370	2712	0009432	0195	14451								
135		OBS	0150	-0106	33700	2712			14451								
		STD	0175	-0050	33800	2716			14482								
135		OBS	0175	-0050	33800	2716			14482								
		STD	0200	0017	3351	2724	0008380	0239	14519								
135		OBS	0200	0017	33510	2724			14519								
		STD	0225	0060	33580	2727			14543								
135		OBS	0225	0060	33580	2727			14543								

REFERENCE		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 SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CRUISE NO.	ID. NO.						10"	1"	MD		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
318180	WE		7c050N	07C420W	26C	06	04	172	1970	WE3	055	0549			00	0	X		02	7	8	0055

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
07	50	21	511	175	006	-006	7		

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ 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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
		STD	0000	0100	3060	2454	0034076	0000	14478								
172		UBS	0000	0100	3060	2454			14478								
		STD	0010	0135	3220	2580	0022079	0028	14517								
172		UBS	0010	0135	3220	2580			14517								
		STD	0020	0050	3325	2665	0013601	0045	14495								
172		UBS	0020	0050	3325	2665			14495								
		STD	0030	-0055	3340	2688	0011825	0058	14432								
172		UBS	0030	-0055	3340	2688			14432								
		STD	0050	-0154	3354	2701	0010568	0081	14409								
172		UBS	0050	-0154	3354	2701			14409								
		STD	0075	-0170	3360	2706	0010051	0106	14407								
172		UBS	0075	-0170	3360	2706			14407								
		STD	0100	-0120	3367	2710	0009643	0131	14435								
172		UBS	0100	-0120	3367	2710			14435								
		STD	0125	-0060	3375	2715	0009157	0154	14459								
172		UBS	0125	-0060	3375	2715			14459								
		STD	0150	-0050	3386	2723	0008438	0170	14479								
172		UBS	0150	-0050	3386	2723			14479								
		STD	0200	0053	3400	2725	0007905	0217	14536								
172		UBS	0200	0053	3400	2725			14536								
		STD	0225	0066	3405	2734			14557								
172		UBS	0225	0066	3405	2734			14557								
		STD	0250	0098	3416	2735	0006973	0255	14507								
172		UBS	0250	0098	3416	2735			14507								
		STD	0300	0066	3425	2747	0006235	0288	14572								
172		UBS	0300	0066	3425	2747			14572								
		STD	0400	0117	3441	2758	0005247	0345	14004								
172		UBS	0400	0117	3441	2758			14004								

REFERENCE		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 SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CRUISE NO.	ID. NO.						10"	1"	MD		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
318180	WE		75573N	071330W	26C	03	04	156	1970	WE3	056	0412			00	0	X		02	7	8	0056

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
07	50	03	513	174	010	007	7		

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ 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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
		STD	0000	0270	3200	2554	0024518	0000	14572								
196		UBS	0000	0270	3200	2554			14572								
		STD	0010	0250	3230	2580	0022100	0023	14569								
196		UBS	0010	0250	3230	2580			14569								
		STD	0020	0200	3280	2623	0017943	0043	14550								
196		UBS	0020	0200	3280	2623			14550								
		STD	0030	-0050	3330	2678	0012700	0058	14451								
196		UBS	0030	-0050	3330	2678			14451								
		STD	0050	-0143	3351	2698	0010822	0082	14414								
196		UBS	0050	-0143	3351	2698			14414								
		STD	0075	-0155	3362	2707	0009937	0108	14414								
196		UBS	0075	-0155	3362	2707			14414								
		STD	0100	-0105	3369	2711	0009537	0132	14443								
196		UBS	0100	-0105	3369	2711			14443								
		STD	0125	-0104	3381	2721	0008610	0155	14449								
196		UBS	0125	-0104	3381	2721			14449								
		STD	0150	-0030	3350	2725	0006222	0176	14489								
196		UBS	0150	-0030	3350	2725			14489								
		STD	0200	0050	3405	2733	0007507	0215	14536								
196		UBS	0200	0050	3405	2733			14536								
		STD	0225	0066	3413	2736			14557								
196		UBS	0225	0066	3413	2736			14557								
		STD	0250	0075	3418	2742	0006679	0251	14557								
196		UBS	0250	0075	3418	2742			14557								
		STD	0300	0071	3424	2747	0006194	0283	14564								
196		UBS	0300	0071	3424	2747			14564								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIRL INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	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				SEA	TYPE	AMT
318180		WL	7550N	072250W		20	52	08	04	214	1970	W-3	057	0304		00	0	X		01	6	7		0057
						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	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						DT	SD	SE	SC5	155	021	011	7											
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 $\mu\text{g} - \text{dl/l}$	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							
		STC	0000	0205	2150	2545	0025509	0000	14577															
214		UBS	0000	0205	31500	2545			14577															
		STC	0010	0202	2200	2553	0024012	0025	14579															
214		UBS	0010	0202	32000	2553			14579															
		STC	0020	0100	2200	2625	0017007	0046	14547															
214		UBS	0020	0100	32000	2625			14547															
		STC	0030	-0105	3358	2680	0011950	0001	14427															
214		UBS	0030	-0105	33300	2680			14427															
		STC	0050	-0170	3351	2695	0010755	0003	14401															
214		UBS	0050	-0170	33510	2695			14401															
		STC	0075	-0108	3358	2704	0010205	0110	14407															
214		UBS	0075	-0108	33500	2704			14407															
		STC	0100	-0120	3370	2713	0007400	0134	14430															
214		UBS	0100	-0120	33700	2713			14430															
		STC	0125	-0070	3360	2719	0008818	0157	14405															
214		UBS	0125	-0070	33600	2719			14405															
		STC	0150	-0030	3350	2725	0006222	0170	14407															
214		UBS	0150	-0030	33500	2725			14407															
214		UBS	0175	0020	34000	2731			14523															
		STC	0200	0102	3411	2735	0007374	0217	14500															
214		UBS	0200	0102	34110	2735			14500															
214		UBS	0225	0057	34120	2730			14502															
		STC	0250	0000	3416	2740	0006002	0253	14559															
214		UBS	0250	0000	34160	2740			14559															
		STC	0300	0048	3424	2745	0006007	0285	14554															
214		UBS	0300	0048	34240	2745			14554															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIRL INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	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				SEA	TYPE	AMT
318180		WE	75365N	073430W		20	53	08	04	235	1970	W-3	058	0402		00	0	X		03	6	8		0058
						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	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						DT	SD	SE	SL2	172	005	7												

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 $\mu\text{g} - \text{dl/l}$	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
		STC	0000	0205	3215	2565	0023503	0000	14581								
235		UBS	0000	0205	32150	2565			14581								
		STC	0010	0200	3260	2607	0019403	0021	14551								
235		UBS	0010	0200	32600	2607			14551								
		STC	0020	-0060	3330	2678	0012727	0037	14445								
235		UBS	0020	-0060	33300	2678			14445								
		STC	0030	-0120	3343	2651	0011515	0049	14420								
235		UBS	0030	-0120	33430	2651			14420								
		STC	0050	-0150	3354	2701	0010578	0071	14411								
235		UBS	0050	-0150	33540	2701			14411								
		STC	0075	-0100	3360	2700	0010072	0097	14411								
235		UBS	0075	-0100	33600	2700			14411								
		STC	0100	-0139	3306	2710	0009655	0122	14420								
235		UBS	0100	-0139	33060	2710			14420								
		STC	0125	-0100	3372	2714	0009291	0145	14447								
235		UBS	0125	-0100	33720	2714			14447								
		STC	0150	-0088	3380	2720	0008737	0168	14460								
235		UBS	0150	-0088	33800	2720			14460								
235		UBS	0175	-0005	33910	2725			14504								
		STC	0200	0032	3400	2730	0007776	0209	14527								
235		UBS	0200	0032	34000	2730			14527								
235		UBS	0225	0070	34070	2734			14549								
		STC	0250	0130	3413	2735	0007427	0247	14581								
235		UBS	0250	0130	34130	2735			14581								
		STC	0300	0060	3422	2746	0006275	0282	14559								
235		UBS	0300	0060	34220	2746			14559								

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 SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
318180		WE	75266N	074565W		260	54	08	05	021	1970	HE3	059		00	0	0	02	6	7	0059

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	SO	3E	S12	154	C12	005	7		

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 $\mu\text{g} - \text{dl/l}$	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	COND
		STD	0000	C330	3090	2462	0033322	0000	14583								
021		OBS	0000	0330	30900	2462			14583								
		STD	0010	C380	3280	2608	0019404	0026	14632								
021		OBS	0010	C380	32800	2608			14632								
		STD	0020	-0045	3344	2685	0011706	0041	14454								
021		OBS	0020	-0045	33440	2685			14454								
		STD	0030	-0145	3356	2702	0010446	0053	14410								
021		OBS	0030	-0145	33560	2702			14410								
		STD	0050	-0172	3358	2704	0010213	0073	14401								
021		OBS	0050	-0172	33580	2704			14401								
		STD	0075	-0173	3359	2705	0010114	0099	14405								
021		OBS	0075	-0173	33590	2705			14405								
		STD	0100	-0154	3364	2709	0009768	0123	14419								
021		OBS	0100	-0154	33640	2709			14419								
		STD	0125	-0140	3371	2714	0009252	0147	14431								
021		OBS	0125	-0140	33710	2714			14431								
		STD	0150	-0042	3386	2723	0008478	0169	14483								
021		OBS	0150	-0042	33860	2723			14483								
021		OBS	0175	0022	33590	2726			14522								
		STD	0200	0065	3406	2733	0007516	0209	14543								
021		OBS	0200	0065	34060	2733			14543								
021		OBS	0225	0100	34160	2735			14564								
		STD	0250	0137	3421	2741	0006874	0245	14585								
021		OBS	0250	0137	34210	2741			14585								
		STD	0300	0088	3426	2748	0006163	0278	14572								
021		OBS	0300	0088	34260	2748			14572								
		STD	0400	0012	3428	2754	0005526	0336	14555								
021		OBS	0400	0012	34280	2754			14555								

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 SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
318180		WE	75130N	076150W		260	56	08	05	053	1970	HE3	060		34	1	2	02	6	8	0060

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	03	SG7	142	013	-006	7		

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 $\mu\text{g} - \text{dl/l}$	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	COND
		STD	0000	0465	3280	2599	0020222	0000	14606								
053		OBS	0000	0405	32800	2599			14606								
		STD	0010	0465	3280	2599	0020230	0020	14668								
053		OBS	0010	0465	32800	2599			14668								
		STD	0020	0360	3290	2618	0018477	0039	14027								
053		OBS	0020	0360	32900	2618			14027								
		STD	0030	-0050	3330	2678	0012760	0055	14451								
053		OBS	0030	-0050	33300	2678			14451								
		STD	0050	-0151	3358	2704	0010270	0078	14411								
053		OBS	0050	-0151	33580	2704			14411								
		STD	0075	-0145	3367	2711	0009578	0103	14419								
053		OBS	0075	-0145	33670	2711			14419								
		STD	0100	-0122	3374	2716	0009101	0126	14435								
053		OBS	0100	-0122	33740	2716			14435								
		STD	0125	-0118	3379	2720	0008719	0148	14442								
053		OBS	0125	-0118	33790	2720			14442								
		STD	0150	-0058	3386	2723	0008399	0170	14475								
053		OBS	0150	-0058	33860	2723			14475								
053		OBS	0175	-0020	33560	2730			14498								
		STD	0200	0023	3402	2732	0007573	0210	14523								
053		OBS	0200	0023	34020	2732			14523								
053		OBS	0225	0024	34090	2738			14533								
		STD	0250	0052	3413	2740	0006905	0246	14546								
053		OBS	0250	0052	34130	2740			14546								
		STD	0300	0037	3422	2746	0006139	0278	14549								
053		OBS	0300	0037	34220	2748			14549								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	MARSOEN 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	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE	75040N	076590W		260	50	08	05	070	1970	WE3	061	0311		34	1	2	02	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	METER (mb)	DRY BULB	WET BULB											
				07	50	03	507	142	013	006	7										

MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^s	$\Sigma \Delta \sigma$ OYN. $\times 10^3$	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	SIC
		STC	0000	0444	3285	2606	0019633	0000	14658								
070		UBS	0000	0444	32850	2606			14658								
		STC	0010	0442	3290	2610	0019243	0019	14660								
070		OBS	0010	0442	3290C	2610			14660								
		STD	0020	-0025	3325	2673	0013244	0035	14460								
070		UBS	0020	-0025	33250	2673			14460								
		STO	0030	-0112	3344	2691	0011471	0040	14424								
070		OBS	0030	-0112	33440	2691			14424								
		STD	0050	-0155	3357	2703	0010333	0069	14409								
070		OBS	0050	-0155	33570	2703			14409								
		STC	0075	-0172	3365	2710	0009003	0094	14406								
070		UBS	0075	-0172	33650	2710			14406								
		STC	0100	-0153	3368	2712	0009401	0118	14420								
070		OBS	0100	-0153	33680	2712			14420								
		STD	0125	-0152	3375	2718	0008914	0141	14426								
070		UBS	0125	-0152	33750	2718			14426								
		STO	0150	-0107	3385	2724	0008267	0163	14452								
070		OBS	0150	-0107	33850	2724			14452								
070		UBS	0175	-0016	33980	2731			14500								
		STC	0200	0028	3409	2738	0007072	0201	14526								
070		OBS	0200	0028	34090	2738			14526								
070		UBS	0225	0070	34140	2739			14550								
		STC	0250	0050	3415	2741	0006742	0236	14545								
070		OBS	0250	0050	34150	2741			14545								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	MARSOEN 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	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318180	WE	74540N	077430W		260	47	08	05	050	1970	WE3	062	0280		11	1	2	02	6	8	0062
				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											
				07	50	11	505	154	021	012	7										

MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^s	$\Sigma \Delta \sigma$ OYN. $\times 10^3$	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	SIC
		STO	0000	0420	3280	2603	0019869	0000	14652								
090		OBS	0000	0420	32800	2603			14652								
		STD	0010	0400	3280	2606	0019595	0019	14641								
090		UBS	0010	0400	32800	2606			14641								
		STO	0020	-0005	3310	2660	0014476	0036	14468								
090		UBS	0020	-0005	33100	2660			14468								
		STC	0030	-0055	3330	2680	0012593	0050	14430								
090		OBS	0030	-0055	33300	2680			14430								
		STD	0050	-0139	3348	2696	0011067	0074	14415								
090		OBS	0050	-0139	33480	2696			14415								
		STO	0075	-0155	3356	2702	0010398	0100	14413								
090		UBS	0075	-0155	33560	2702			14413								
		STC	0100	-0154	3360	2706	0010075	0126	14418								
090		OBS	0100	-0154	33600	2706			14418								
		STD	0125	-0148	3367	2711	0009537	0150	14426								
090		UBS	0125	-0148	33670	2711			14426								
		STO	0150	-0122	3372	2714	0009227	0174	14443								
090		OBS	0150	-0122	33720	2714			14443								
090		UBS	0175	-0070	33840	2722			14473								
		STC	0200	-0012	3394	2728	0007994	0217	14506								
090		OBS	0200	-0012	33940	2728			14506								
090		UBS	0225	0026	34050	2735			14529								

REFERENCE CTRY CODE	SHIP ID. NO. 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			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10'	1"	MO	DAY	HR.		1/10	CRUISE NO.		STATION NUMBER	DIA.	HGT	PER	SEA	TYPE		AMT		
					10'	1"	MO	DAY	HR.		1/10	CRUISE NO.		STATION NUMBER	DIA.	HGT	PER	SEA	TYPE		AMT		
318180	WE	74447N	078558W	260	48	08	05	108	1970	WE3	003	0420	10	1	2	02	6	8	0063				

WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. (ml)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	NO. OBS. DEPTHS
02	50	11	505	154	021	012	7

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{10}^t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{lit}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{lit}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{lit}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{lit}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{lit}^{-1}$	pH	SEC
		STD	0000	0310	3265	2603	0019914	0000	14598								
108		Obs	0000	0310	32650	2603			14598								
		STD	0010	0295	3270	2608	0019420	0019	14594								
108		Obs	0010	0295	32700	2608			14594								
		STD	0020	0230	3250	2629	0017402	0038	14570								
108		Obs	0020	0230	32500	2629			14570								
		STD	0030	-0035	3325	2673	0013204	0053	14457								
108		Obs	0030	-0035	33250	2673			14457								
		STD	0050	-0127	3335	2685	0012099	0078	14419								
108		Obs	0050	-0127	33350	2685			14419								
		STD	0075	-0138	3347	2695	0011133	0107	14420								
108		Obs	0075	-0138	33470	2695			14420								
		STD	0100	-0150	3355	2701	0010464	0134	14420								
108		Obs	0100	-0150	33550	2701			14420								
		STD	0125	-0130	3361	2706	0010049	0160	14434								
108		Obs	0125	-0130	33610	2706			14434								
		STD	0150	-0127	3369	2712	0009441	0184	14441								
108		Obs	0150	-0127	33690	2712			14441								
108		Obs	0175	-0127	33750	2717			14446								
		STD	0200	-0084	3386	2724	0006277	0229	14471								
108		Obs	0200	-0084	33860	2724			14471								
108		Obs	0225	-0050	33590	2734			14493								
		STD	0250	0030	3406	2735	0007304	0268	14535								
108		Obs	0250	0030	34060	2735			14535								
		STD	0300	0065	3418	2743	0006611	0302	14561								
108		Obs	0300	0065	34180	2743			14561								

REFERENCE CTRY CODE	SHIP ID. NO. 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			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10'	1"	MO	DAY	HR.		1/10	CRUISE NO.		STATION NUMBER	DIA.	HGT	PER	SEA	TYPE		AMT		
					10'	1"	MO	DAY	HR.		1/10	CRUISE NO.		STATION NUMBER	DIA.	HGT	PER	SEA	TYPE		AMT		
318180	WE	74300N	078390W	260	48	08	05	125	1970	WE3	004	0560	03	1	2	02	6	8	0064				

WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. (ml)	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	NO. OBS. DEPTHS
02	50	20	506	142	025	002	7

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{10}^t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{lit}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{lit}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{lit}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{lit}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{lit}^{-1}$	pH	SEC
		STD	0000	0380	3220	2560	0023920	0000	14622								
125		Obs	0000	0380	32200	2560			14622								
		STD	0010	0300	3230	2576	0022491	0023	14591								
125		Obs	0010	0300	32300	2576			14591								
		STD	0020	-0030	3315	2665	0013986	0041	14457								
125		Obs	0020	-0030	33150	2665			14457								
		STD	0030	-0134	3340	2689	0011704	0054	14413								
125		Obs	0030	-0134	33400	2689			14413								
		STD	0050	-0172	3352	2700	0010674	0076	14400								
125		Obs	0050	-0172	33520	2700			14400								
		STD	0075	-0172	3355	2702	0010430	0103	14405								
125		Obs	0075	-0172	33550	2702			14405								
		STD	0100	-0175	3366	2711	0009554	0128	14409								
125		Obs	0100	-0175	33660	2711			14409								
		STD	0125	-0130	3370	2713	0009364	0151	14435								
125		Obs	0125	-0130	33700	2713			14435								
		STD	0150	-0060	3382	2720	0008695	0174	14474								
125		Obs	0150	-0060	33820	2720			14474								
125		Obs	0175	0000	33530	2726			14507								
		STD	0200	0042	3400	2730	0007836	0215	14531								
125		Obs	0200	0042	34000	2730			14531								
125		Obs	0225	0052	34140	2738			14560								
		STD	0250	0136	3420	2740	0006936	0252	14585								
125		Obs	0250	0136	34200	2740			14585								
		STD	0300	0175	3433	2748	0006269	0285	14612								
125		Obs	0300	0175	34330	2748			14612								
		STD	0400	0168	3444	2757	0005418	0344	14627								
125		Obs	0400	0168	34440	2757			14627								
		STD	0500	0145	3453	2760	0004590	0394	14635								
125		Obs	0500	0145	34530	2760			14635								

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	DEPTH METER	MARDEN 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	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT PER	SEA		TYPE	AMT		
310100	WE		74150N	070500W	200	48	05	145	1970	WE3	065		0878		12	1	2		02	6	1	8	0065

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	09	502	125	025	002	7		

MESSNGR TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - 0.1/l	TOTAL-P µg - 0.1/l	NO ₂ -N µg - 0.1/l	NO ₃ -N µg - 0.1/l	SiO ₄ -Si µg - 0.1/l	pH	SEC
		STD	0000	0400	3260	2590	0021092	0000	14636								
145		UBS	0000	0400	32600	2590			14636								
		STD	0010	0300	3270	2600	0020150	0020	14631								
145		UBS	0010	0300	32700	2600			14631								
		STD	0020	0140	3300	2644	0016022	0030	14532								
145		UBS	0020	0140	33000	2644			14532								
		STD	0030	-0060	3330	2675	0012049	0053	14437								
145		UBS	0030	-0060	33300	2675			14437								
		STD	0050	-0135	3350	2697	0010923	0070	14418								
145		UBS	0050	-0135	33500	2697			14418								
		STD	0075	-0150	3358	2704	0010254	0103	14416								
145		UBS	0075	-0150	33580	2704			14416								
		STD	0100	-0160	3367	2711	0009522	0127	14417								
145		UBS	0100	-0160	33670	2711			14417								
		STD	0125	-0162	3370	2714	0009271	0151	14420								
145		UBS	0125	-0162	33700	2714			14420								
		STD	0150	-0150	3372	2715	0009133	0174	14430								
145		UBS	0150	-0150	33720	2715			14430								
145		UBS	0175	-0085	33600	2720			14400								
		STD	0200	-0002	3354	2727	0008045	0217	14510								
145		UBS	0200	-0002	33540	2727			14510								
145		UBS	0225	0025	34050	2735			14527								
		STD	0250	0060	3414	2740	0006884	0254	14550								
145		UBS	0250	0060	34140	2740			14550								
		STD	0300	0084	3425	2747	0006205	0287	14570								
145		UBS	0300	0084	34250	2747			14570								
		STD	0400	0113	3440	2758	0005297	0344	14602								
145		UBS	0400	0113	34400	2758			14602								
		STD	0500	0124	3446	2762	0004947	0396	14624								
145		UBS	0500	0124	34460	2762			14624								
		STD	0600	0135	3455	2768	0004381	0442	14647								
145		UBS	0600	0135	34550	2768			14647								
		STD	0700	0106	3455	2770	0004176	0485	14651								
145		UBS	0700	0106	34550	2770			14651								

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE M/D/YR	MARSJOEN 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./10		CRUISE NO.	STATION NUMBER	DIP			HGT	PER	SEA		TYPE	AMT	
313180	WE	74030N	075070W	260	49	08	05	171	1970	WE3	066	0823	00	0	X	02	6	8	0066			
					WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH		SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED DR FORCE	METER (mba)	DRY BULB	WET BULB	VIS. CODE										
					DT	SD	19	S17	115	023	015	7										

MESSNGR TIME NR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	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 ₂ -Si µg - at/l	pH	CO ₂
		STD	0000	0300	3270	2607	0019461	0000	14595								
171		OBS	0000	0300	32700	2607			14595								
		STD	0010	0080	3300	2647	0015066	0017	14503								
171		OBS	0010	0080	33000	2647			14503								
		STD	0020	-0040	3330	2677	0012800	0031	14454								
171		OBS	0020	-0040	33300	2677			14454								
		STD	0030	-0130	3347	2654	0011180	0043	14416								
171		OBS	0030	-0130	33470	2654			14416								
		STD	0050	-0148	3356	2702	0010433	0065	14412								
171		OBS	0050	-0148	33560	2702			14412								
		STD	0075	-0156	3359	2705	0010163	0091	14413								
171		OBS	0075	-0156	33590	2705			14413								
		STD	0100	-0167	3364	2709	0009728	0116	14413								
171		OBS	0100	-0167	33640	2709			14413								
		STD	0125	-0166	3372	2716	0009107	0139	14419								
171		OBS	0125	-0166	33720	2716			14419								
		STD	0150	-0090	3382	2721	0008574	0161	14460								
171		OBS	0150	-0090	33820	2721			14460								
		STD	0175	0004	33900	2724			14508								
171		OBS	0175	0004	33900	2724			14508								
		STD	0200	0020	3400	2731	0007715	0202	14521								
171		OBS	0200	0020	34000	2731			14521								
		STD	0225	0046	34090	2737			14538								
171		OBS	0225	0046	34090	2737			14538								
		STD	0250	0070	34160	2741	0006792	0238	14554								
171		OBS	0250	0070	34160	2741			14554								
		STD	0300	0086	3424	2747	0006296	0271	14571								
171		OBS	0300	0086	34240	2747			14571								
		STD	0400	0094	3435	2755	0005536	0330	14593								
171		OBS	0400	0094	34350	2755			14593								
		STD	0500	0126	3445	2761	0005039	0383	14625								
171		OBS	0500	0126	34450	2761			14625								
		STD	0600	0129	3450	2765	0004710	0432	14644								
171		OBS	0600	0129	34500	2765			14644								
		STD	0700	0107	3451	2767	0004481	0478	14651								
171		OBS	0700	0107	34510	2767			14651								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARDEN 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	
318180		WE	73500N	077500W		200	37	08	05	154	1970	WEJ	007	0809		00	0	X		02	6	8	0067
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						DT	SD	19	SL7	115	C23	006	7										

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 - 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	3 C C
194		STD	0000	0385	3245	2580	0022080	0000	14628								
		OBS	0000	0385	32450	2580			14628								
		STD	0010	0380	3246	2581	0021968	0022	14628								
194		OBS	0010	0380	32460	2581			14628								
		STD	0020	0250	3265	2624	0017937	0042	14578								
194		OBS	0020	0250	32850	2624			14578								
		STD	0030	0070	3315	2660	0014470	0056	14504								
194		OBS	0030	0070	33150	2660			14504								
		STD	0050	-0135	3347	2695	0011158	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	-0159	3361	2707	0009985	0136	14416								
194		OBS	0100	-0159	33610	2707			14416								
		STD	0125	-0169	3366	2711	0009557	0160	14416								
194		OBS	0125	-0169	33660	2711			14416								
		STD	0150	-0120	3375	2717	0009003	0183	14445								
194		OBS	0150	-0120	33750	2717			14445								
194		OBS	0175	-0070	33850	2723			14474								
		STD	0200	-0008	3392	2726	0009168	0226	14507								
194		OBS	0200	-0008	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	0006958	0301	14567								
194		OBS	0300	0080	34150	2740			14567								
		STD	0400	0120	3433	2752	0005878	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		SNIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	SUNNY 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		NOOC STATION NUMBER
CTRY CODE	IO. HO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318180	WE		74099N	077218W		260	47	08	05	214	1970	WES	068	0786		00	0	X		02	7	8	0068
WATER		WIND			BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
CDLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																	
OT	SD	C5	SC4	C55	C27	U14	7																

MESSNGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	S 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	SI D ₄ -SI μg - at/l	pH	S C C
		STD	0000	0270	3260	2593	0020820	0000	14024								
214		OBS	0000	0370	32600	2593			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	0166	14474								
214		OBS	0150	-0060	33870	2724			14474								
		STD	0175	0005	33990	2731			14512								
214		OBS	0175	0005	33990	2731			14512								
		STD	0200	0060	3405	2733	0007507	0206	14540								
214		OBS	0200	0060	34050	2733			14540								
		STD	0225	0060	34090	2736			14545								
214		OBS	0225	0060	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	14586								
214		OBS	0400	0079	34350	2756			14586								
		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	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODE	NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.				HGT PER
313	180	WE	7424UN	077060W	200	47	00	05	237	1970	WE3	009	0650	00	0	X	02	7	B	0069

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	01	02	03	104	012	006	7		

MESSAGE TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S.A.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	0450	3220	2553	0024502	0000	14652								
237		UBS	0000	0450	3220	2553			14652								
		STD	0010	0300	3300	2631	0017193	0020	14601								
237		UBS	0010	0300	3300	2631			14601								
		STD	0020	-0000	3330	2675	0012653	0035	14436								
237		UBS	0020	-0000	3330	2675			14436								
		STD	0030	-0145	3345	2693	0011296	0047	14409								
237		UBS	0030	-0145	3345	2693			14409								
		STD	0050	-0170	3355	2702	0010448	0059	14402								
237		UBS	0050	-0170	3355	2702			14402								
		STD	0075	-0170	3356	2703	0010358	0095	14406								
237		UBS	0075	-0170	3356	2703			14406								
		STD	0100	-0162	3360	2706	0010054	0121	14415								
237		UBS	0100	-0162	3360	2706			14415								
		STD	0125	-0107	3372	2714	0009291	0145	14440								
237		UBS	0125	-0107	3372	2714			14440								
		STD	0150	-0056	3383	2721	0008643	0167	14476								
237		UBS	0150	-0056	3383	2721			14476								
		STD	0175	0002	3392	2726			14508								
237		UBS	0175	0002	3392	2726			14508								
		STD	0200	0053	3400	2729	0007905	0209	14536								
237		UBS	0200	0053	3400	2729			14536								
		STD	0225	0071	3408	2735			14550								
237		UBS	0225	0071	3408	2735			14550								
		STD	0250	0095	3415	2739	0007034	0246	14566								
237		UBS	0250	0095	3415	2739			14566								
		STD	0300	0166	3433	2748	0006199	0279	14608								
237		UBS	0300	0166	3433	2748			14608								
		STD	0400	0220	3451	2759	0005321	0337	14651								
237		UBS	0400	0220	3451	2759			14651								
		STD	0500	0166	3453	2764	0004761	0387	14644								
237		UBS	0500	0166	3453	2764			14644								
		STD	0600	0110	3454	2769	0004260	0432	14636								
237		UBS	0600	0110	3454	2769			14636								

REFERENCE CTRY CODE	SHIP NO.	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. 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			
					UT	SD	34	S12		C26	C44			036	7	SPECIAL OBSERVATIONS										
310180	WE	75290N	071500W		260	E1	06	C6	133	1970	WE3	074	0603		32	3	3		02	X	0			0074		

REFERENCE CTRY CODE	SHIP NO.	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. 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			
					UT	SD	34	S12		C26	C44			036	7	SPECIAL OBSERVATIONS										
310180	WE	75365N	071020W		260	E1	06	06	142	1970	WE3	075	0518		31	3	3		02	X	0			0075		

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		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER 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	
311680		WE	74300N	075509W		260	49	07	24	183	1970	WE3	N01	0050		00	0	X		8	8	0001
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbars)	DRY BULB	WET BULB	VIS. CODE									
								04	SC3	139	022	018	7	11								
MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	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	SS CC					
		STD	0000	0230	3293	2631	0017179	0000	14570													
183		OBS	0009	0236	32935	2631			14572													
		STL	0010	0235	3293	2632	0017173	0017	14571													
		STD	0020	0225	3293	2632	0017103	0034	14569													
183		OBS	0023	0222	32935	2633			14568													
		STD	0030	0005	3310	2650	0014840	0050	14501													
183		OBS	0042	-0115	33315	2601			14423													
		STD	0050	-0123	3340	2689	0011729	0076	14422													
183		OBS	0055	-0142	33516	2699			14417													
		STD	0075	-0162	3355	2702	0010441	0104	14410													
183		OBS	0089	-0175	33585	2705			14405													
		STD	0100	-0176	3360	2706	0010050	0130	14408													
		STD	0125	-0159	3361	2707	0009943	0155	14421													
183		OBS	0135	-0148	33619	2707			14427													
		STL	0150	-0126	3367	2711	0009586	0179	14441													
183		OBS	0175	-0065	33759	2716			14405													
		STD	0200	-0024	3385	2721	0006599	0225	14499													
		STD	0250	0077	3404	2731	0007777	0266	14550													
183		OBS	0275	0117	34125	2735			14579													
		STD	0300	0150	3423	2741	0006838	0302	14602													
183		OBS	0348	0150	34370	2750			14630													
		STD	0400	0168	3439	2753	0005759	0365	14626													
183		OBS	0437	0153	34413	2756			14626													
		STD	0500	0139	3440	2760	0005083	0419	14631													
183		OBS	0532	0137	34486	2763			14636													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER 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	
311680		WE	74196N	080025W		261	40	07	24	202	1970	WE3	N02	0025		00	0	X		8	8	0002
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbars)	DRY BULB	WET BULB	VIS. CODE									
								04	SC3	139	022	016	7	02								
MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	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	SS CC					
202		OBS	0055	-0165	33742	2717			14414													
		STD	0100	-0160	3375	2718	0008673		14416													
		STL	0125	-0132	3382	2723	0008461		14436													
		STD	0150	-0105	3388	2727	0008063		14453													
		STD	0200	-0051	3401	2735	0007306		14489													
		STD	0250	0004	3413	2742	0006620		14524													
		STD	0300	0058	3426	2750	0005936		14559													
202		OBS	0345	0107	34370	2756			14590													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	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	
311680	WE	74078N	080000W	261	40	07	24	221	1970	WE3	N03	0805	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	(mbars)	DRY BULB	WET BULB												
						33	S03	139	023	011	7	12										

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	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 ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S.C.C.
	221	UBS	0010	0080	3288	2637	0016617		14502								
		STD	0020	0213	3313	2649	0015519		14566								
	221	UBS	0025	0222	33230	2656			14572								
		STD	0030	0106	3329	2669	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	0005588		14420								
		STD	0125	-0144	3372	2715	0005142		14429								
	225	UBS	0144	-0138	33775	2720			14436								
		STD	0150	-0120	3380	2721	0005597		14445								
	225	UBS	0194	-0012	33968	2730			14505								
		STD	0200	-0002	3399	2732	0007649		14511								
		STD	0250	0066	3417	2742	0006090		14553								
	225	UBS	0290	0090	34275	2749			14574								
		STD	0300	0092	3429	2750	0005978		14574								
	225	UBS	0390	0080	34392	2759			14585								
		STD	0400	0085	3441	2760	0005042		14589								
	225	UBS	0490	0119	34497	2765			14621								
		STD	0500	0122	3450	2765	0004639		14624								
	225	UBS	0590	0134	34519	2766			14645								
		STD	0600	0133	3452	2766	0004583		14646								
	225	UBS	0690	0126	34547	2769			14658								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	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	
311680	WE	73555N	079596W	260	39	07	25	017	1970	WE3	N04	0815	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	(mbars)	DRY BULB	WET BULB												
						33	S03	139	023	011	7	02										

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	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 ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S.C.C.
	017	UBS	0095	-0160	33729	2716			14414								
		STD	0100	-0161	3374	2717	0008972		14417								
		STD	0125	-0133	3380	2721	0008569		14435								
		STD	0150	-0106	3386	2726	0006180		14453								
		STD	0200	-0052	3399	2733	0007450		14488								
		STD	0250	0003	3411	2741	0006772		14525								
		STD	0300	0057	3423	2748	0006105		14558								
	017	UBS	0341	0102	34334	2753			14586								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN 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
31106U	WE		73450N	080000W		261	39	07	25	035	1970	WE3	NO5	0823	1	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)	OIL	SPEED OR FORCE		DRY BULB	WET BULB											
								22	S02	129	017	006	5	12									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DTN. 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	SI O ₄ -Si μg - ml/l	pH	S C C
		STD	0010	-0132	3247	2613	0010883		14398								
035		UBS	0010	-0132	32466	2613			14396								
		STD	0020	-0133	3254	2619	0010323		14400								
035		UBS	0025	-0134	32554	2624			14401								
		STD	0030	-0135	3270	2632	0017102		14403								
035		UBS	0045	-0137	32931	2651			14400								
		STD	0050	-0137	3295	2652	0015161		14409								
		STD	0075	-0139	3303	2659	0014529		14413								
035		UBS	0080	-0139	33043	2660			14414								
035		UBS	0095	-0142	33242	2676			14410								
		STD	0100	-0140	3329	2680	0012497		14420								
		STD	0125	-0133	3348	2690	0011013		14431								
035		UBS	0145	-0126	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	0250	-0658	3383	2723	0006437		14491								
035		UBS	0291	-0026	33556	2730			14515								
		STD	0300	-0020	3358	2731	0007653		14519								
035		UBS	0350	0034	34175	2744			14552								
		STD	0400	0041	3420	2746	0006303		14507								
035		UBS	0450	0091	34378	2757			14607								
		STD	0500	0093	3438	2758	0005280		14609								
035		UBS	0550	0109	34443	2761			14632								
		STD	0600	0111	3445	2762	0004949		14635								
035		UBS	0650	0129	34498	2764			14659								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN 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
31106U	WE		73437N	079048W		260	39	07	25	055	1970	WE3	NO6	0860		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)	OIL	SPEED OR FORCE		DRY BULB	WET BULB											
								31	S02	139	000	000	0	02									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DTN. 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	SI O ₄ -Si μg - ml/l	pH	S C C
		UBS	0070	-0164	32602	2641			14397								
		STD	0075	-0161	3282	2643	0016051		14400								
		STD	0100	-0146	3291	2650	0015358		14412								
		STD	0125	-0132	3301	2657	0014677		14424								
		STD	0150	-0117	3310	2664	0013999		14437								
		STD	0200	-0088	3328	2678	0012660		14461								
		STD	0250	-0059	3347	2692	0011342		14486								
		STD	0300	-0030	3365	2706	0010053		14510								
		STD	0400	0029	3402	2733	0007561		14559								
056		UBS	0483	0077	34332	2754			14599								

REFERENCE CITY CODE	SHIP NO.	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INDEX	MARSOEN 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	AMT		
311680	WE	73435N	078146W		260	38	07	25	079	1970	WE3	N07	1006		00	U	X		X	9		0007	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
							31	502	135	006	002	0	03										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DTN. 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
	075	UBS	0163	-0146	33720	2715			14434								
		STO	0200	-0084	3381	2721	0008628		14471								
		STC	0250	-0011	3393	2727	0008093		14514								
		STO	0300	0047	3402	2731	0007692		14550								
	079	UBS	0304	0051	34030	2732			14553								
		STD	0400	0057	3409	2736	0007279		14572								
		STC	0500	0064	3414	2740	0006878		14593								
		STU	0600	0070	3420	2745	0006490		14613								
	079	UBS	0645	0073	3429	2746			14622								

REFERENCE CITY CODE	SHIP NO.	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INDEX	MARSOEN 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	AMT		
311680	WE	73360N	077350W		260	37	07	25	116	1970	WE3	N08	1073		00	U	X		7	8		0008	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
							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-2107	Σ Δ D DTN. 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
		STD	0010	0011	3207	2576			14459								
	110	UBS	0040	0011	32073	2576			14459								
		STD	0020	-0027	3293	2647	0015677		14455								
	110	UBS	0025	-0046	33216	2671			14451								
		STC	0030	0036	3327	2672	0013355		14450								
	110	UBS	0045	0152	33357	2675			14447								
		STC	0050	0068	3341	2680	0012609		14519								
	110	UBS	0070	-0085	33451	2691			14444								
		STC	0075	-0092	3346	2693	0011351		14441								
	110	UBS	0095	-0116	33500	2696			14434								
		STD	0100	-0119	3351	2697	0010888		14433								
		STC	0125	-0135	3355	2701	0010507		14431								
	110	UBS	0144	-0144	33582	2704			14430								
		STD	0150	-0145	3359	2705	0010107		14429								
	110	UBS	0165	-0157	33604	2711			14432								
		STO	0200	-0134	3370	2713	0009337		14446								
		STC	0250	-0065	3381	2719	0008756		14488								
	110	UBS	0275	-0037	33861	2723			14506								
		STC	0300	-0018	3393	2727	0008059		14519								
	110	UBS	0371	0036	34081	2737			14558								
		STD	0400	0063	3412	2739	0007035		14576								
	110	UBS	0455	0163	34220	2744			14605								
		STC	0500	0113	3432	2751	0005943		14618								
	110	UBS	0551	0122	34358	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	DIR. 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	NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS						
																DIR.	HGT PER	SEA				
311080	WE	73300N	077000W	260	27	07	25	135	1970	WE3	N09	1024			00	0	X			7	8	0009
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. SM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
								34		504	122	002	000	6	03							
MESSNGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}^?$	$\Sigma \Delta \theta$ OYN. 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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
135		OBS	0145	-0146	33618	2707			14430													
		STD	0150	-0140	3363	2708	0009841		14433													
		STD	0200	-0085	3376	2716	0009033		14469													
		STD	0250	-0036	3388	2724	0008327		14502													
		STD	0300	0007	3359	2731	0007722		14532													
135		OBS	0341	0038	34070	2736			14554													
		STD	0400	0057	3418	2743	0006589		14573													
		STD	0500	0089	3432	2753	0005695		14606													
		STD	0600	0120	3443	2760	0005134		14639													
135		OBS	0649	0136	34473	2762			14654													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIR. 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	NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS						
																DIR.	HGT PER	SEA				
311080	WE	73410N	076120W	260	26	07	25	159	1970	WE3	N10	0914			00	0	X			8	8	0010
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. SM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
								36		504	122	031	022	7	04							
MESSNGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}^?$	$\Sigma \Delta \theta$ OYN. 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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
159		OBS	0049	-0157	33714	2715			14410													
		STD	0050	-0156	3372	2715	0009213		14411													
		STD	0075	-0131	3375	2717	0008995		14427													
159		OBS	0085	-0117	33772	2716			14436													
		STD	0100	-0104	3380	2720	0008700		14445													
		STD	0125	-0074	3386	2724	0008329		14463													
		STD	0150	-0047	3392	2728	0007989		14481													
		STD	0200	0003	3403	2734	0007391		14514													
		STD	0250	0046	3413	2740	0006892		14543													
		STD	0300	0083	3421	2745	0006482		14569													
159		OBS	0353	0114	34290	2749			14593													
		STD	0400	0117	3432	2751	0005964		14603													
		STD	0500	0124	3437	2755	0005018		14623													
		STD	0600	0121	3443	2758	0005285		14643													
159		OBS	0650	0137	34475	2762			14662													

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	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			

311080		WE	73460N	075310W	200	35	07	25	181	1970	WE3	N11	0914		00	0	X		8	8	0011
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MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. 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.
						36	SC6	122	031	022	7	12					
161		STD	0010	0206	3266	2612	0019064		14555								
		OBS	0010	0206	32658	2612		14555									
181		STD	0020	-0029	3308	2659	0014528		14456								
		OBS	0025	-0106	33229	2674		14423									
181		STD	0030	-0116	3328	2675	0012603		14420								
		OBS	0045	-0140	33414	2690		14413									
181		STD	0050	-0145	3344	2693	0011346		14412								
		OBS	0070	-0160	33540	2701		14410									
181		STD	0075	-0161	3356	2703	0010360		14410								
		OBS	0095	-0166	33633	2709		14412									
181		STD	0100	-0166	3364	2709	0009737		14413								
		OBS	0125	-0167	3367	2712	0009449		14417								
181		STD	0145	-0168	33705	2715		14421									
		OBS	0150	-0161	3371	2715	0009174		14425								
181		STD	0193	-0098	33786	2719		14403									
		OBS	0200	-0081	3362	2721	0008603		14472								
181		STD	0250	0021	3402	2733	0007531		14530								
		OBS	0292	0080	34163	2741		14566									
181		STD	0300	0085	3418	2742	0006709		14570								
		OBS	0385	0125	34308	2754		14605									
181		STD	0400	0126	3438	2755	0005544		14608								
		OBS	0488	0132	34456	2761		14626									
181		STD	0500	0132	3446	2761	0004993		14628								
		OBS	0588	0132	34498	2764		14643									
181		STD	0600	0131	3450	2764	0004732		14645								
		OBS	0700	0117	3451	2760	0004561		14655								
181		STD	0794	0091	34520	2769		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	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			

311080		WE	73560N	074500W	200	34	07	25	207	1970	WE3	N12	0978		00	0	X		7	8	0012
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MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. 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.
						26	SO2	121	037	024	2	02					
207		OBS	0145	-0175	33705	2715		14417									
		STD	0150	-0171	3372	2716	0009079		14420								
		STD	0200	-0132	3382	2723	0008402		14448								
		STD	0250	-0093	3352	2730	0007704		14470								
		STD	0300	-0095	3402	2736	0007157		14504								
		STD	0400	0023	3422	2749	0006049		14559								
		STD	0500	0101	3442	2760	0005077		14613								
207		OBS	0531	0120	34482	2763		14630									

REFERENCE CITY CODE	IO. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT. INCH	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	
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
311680	WE		7404N	074050W	260	44	07	25	225		1970	NE3	N13	0786							00	0	X	

MESSNGR 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 $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	CLC
226		08S	0140	-0160	33747	2718			14424								
		STO	0150	-0151	3377	2719	0008764		14430								
		STD	0200	-0167	3367	2726	0008084		14461								
		STD	0250	-0062	3358	2733	0007454		14491								
		STD	0300	-0048	3408	2740	0006865		14522								
		STD	0400	0071	3425	2752	0005816		14581								
		STD	0500	0160	3450	2762	0004923		14641								
226		08S	0510	0169	34522	2763			14647								

REFERENCE CITY CODE	IO. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT. INCH	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		
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
311680	WE		7411N	073170W	260	43	07	26	006		1970	NE3	N14	0786							00	0	X		

MESSNGR 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 $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	CLC
006		08S	0092	-0165	33669	2712			14413								
		STO	0100	-0155	3365	2713	0009371		14419								
		STD	0125	-0123	3376	2718	0008907		14439								
		STD	0150	-0090	3383	2723	0006406		14460								
		STD	0200	-0026	3358	2732	0007635		14500								
		STD	0250	0048	3412	2740	0006896		14539								
		STD	0300	0103	3426	2747	0006229		14579								
006		08S	0377	0202	34484	2756			14639								

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	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	NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA	
311680	WE		74200N	072180W	260	42	07	26	028	1970	WE3	N15	1988		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	(mbar)	DRY BULB	WET BULB															
					27	S1C	C94	042	022	7	12												

MESSAGE TIME HR 1/10	CASST 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 - 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
		STC	0010	0249	3258	2602	0019980		14573								
		OBS	0010	0249	32578	2602			14573								
		STD	0020	-0060	3332	2680	0012564		14445								
028		OBS	0025	-0157	33553	2702			14404								
		STD	0030	-0164	3356	2703	0010490		14402								
028		OBS	0044	-0176	33585	2705			14398								
		STC	0050	-0176	3360	2706	001068		14400								
028		OBS	0069	-0175	33635	2709			14404								
		STC	0075	-0173	3365	2710	000960		14406								
028		OBS	0093	-0167	33690	2713			14412								
		STC	0100	-0149	3370	2714	0009300		14422								
		STC	0125	-0087	3376	2717	0005028		14456								
028		OBS	0142	-0047	33815	2720			14478								
		STD	0150	-0027	3386	2722	0008505		14489								
028		OBS	0191	0058	34334	2732			14538								
		STD	0200	0068	3407	2734	0007490		14544								
		STC	0250	0117	3422	2743	0006627		14577								
026		OBS	0290	0147	34226	2749			14598								
		STD	0300	0152	3435	2751	0005946		14602								
028		OBS	0381	0184	34478	2759			14631								
		STD	0400	0191	3448	2758	0005308		14637								
028		OBS	0460	0193	34482	2758			14652								
		STL	0500	0182	3449	2760	0005184		14650								
028		OBS	0577	0142	34518	2765			14646								
		STC	0600	0131	3452	2766	0004554		14645								
		STD	0700	0092	3454	2770	0004141		14645								
028		OBS	0775	0070	34540	2772			14647								

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	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	NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA	
311680	WE		74360N	070500W	260	40	07	26	058	1970	WE3	N16	1572		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	(mbar)	DRY BULB	WET BULB															
					00	S0C	052	011	006	4	02												

MESSAGE TIME HR 1/10	CASST 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 - 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
059		OBS	0055		33657												
		STC	0100		3367												
		STC	0125		3372												
		STD	0150		3378												
		STC	0200		3385												
		STC	0250		3400												
		STD	0300		3411												
		STD	0400		3433												
059		OBS	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	
311660	WE		74510N	065040W		255	49	07	26	108	1970	WE3	N17	1372		00	0	X		X	9	0017
						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											
								16	SC5	C60	-004	-006	3	01								
MESSAGE TIME OF 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 $\mu\text{g} - \text{dl/l}$	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.					
108		OBS	0429	0188	34482	2759			14640													

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	068370W		255	58	07	26	128	1970	WE3	N18	0750		00	0	X		X	9	0018
						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											
								16	SC5	C80	-004	-006	1	02								
MESSAGE TIME OF 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 $\mu\text{g} - \text{dl/l}$	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.					
128		OBS	0094	-0172	33571	2704			14400													
		STD	0100	-0166	3355	2705	0010152		14412													
		STD	0125	-0143	3364	2709	0009747		14428													
		STD	0150	-0120	3370	2713	0009354		14444													
		STD	0200	-0074	3382	2721	0008598		14475													
		STD	0250	-0028	3394	2725	0007883		14507													
		STD	0300	0018	3406	2736	0007228		14538													
		STD	0400	0110	3430	2750	0006037		14599													
128		OBS	0492	0195	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	068080W		255	58	07	26	152	1970	WE3	N19	0493		00	0	X		X	9	0019
						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											
								11	SC5	C90	001	000	4	08								
MESSAGE TIME OF 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 $\mu\text{g} - \text{dl/l}$	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.					
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	33380	2600			14402													
		STD	0030	-0160	3341	2690	0011602		14401													
152		OBS	0045	-0169	33472	2696			14400													
		STD	0050	-0170	3345	2697	0010862		14401													
152		OBS	0070	-0173	33551	2702			14404													
		STD	0075	-0173	3355	2702	0010403		14405													
152		OBS	0095	-0171	33580	2703			14409													
		STD	0100	-0156	3358	2704	0010218		14417													
		STD	0125	-0085	3368	2710	0009696		14456													
		STD	0150	-0024	3377	2715	0009252		14489													
152		OBS	0155	0063	33921	2722			14539													
		STD	0200	0065	3394	2723	0006481		14543													
		STD	0250	0119	3408	2731	0007734		14575													
152		OBS	0255	0151	34196	2739			14599													
		STD	0300	0154	3421	2735	0007016		14601													
152		OBS	0355	0100	34418	2754			14631													

REFERENCE CTRY 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 S'AMPL'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	AMT		
311680	WE	75294N	067390W	255	57	07	26	180	1570	WE3	N20	0430	00	0	X			X	19			0020	
		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		SC5		116		006		000		3		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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
180		OBS	0055			33563											
		STD	0100			3360											
		STD	0125			3368											
		STD	0150			3376											
		STD	0200			3392											
		STD	0250			3408											
180		OBS	0255			34223											

REFERENCE CTRY 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 S'AMPL'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	AMT	
311680	WE	75430N	067110W	255	57	07	26	157	1570	WE3	N21	0460	00	0	X			X	19			0021

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	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS			
			12	SC5	116	006	000	3	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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
197		OBS	0055	-0165	33574	2704			14412								
		STD	0100	-0157	3359	2705	0010137		14417								
		STD	0125	-0115	3367	2710	0009631		14442								
		STD	0150	-0074	3375	2715	0009149		14466								
		STD	0200	0010	3392	2725	0009290		14515								
		STD	0250	0093	3408	2733	0007554		14563								
197		OBS	0254	0166	34223	2740			14605								

REFERENCE CTRY 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 S'AMPL'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	AMT	
311680	WE	75457N	066460W	255	56	07	26	114	1570	WE3	N22	0423	00	0	X			X	19			0022

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	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS			
			15	SC3	126	-001	-000	3	01				

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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
214		OBS	0045	-0120	33404	2689			14422								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DEPTH INDICATOR	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
					10'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.			
311680	WE	75460N	070200W	26C	50	07	27	137	1970	WE3	N26	053D		15	0	2		X 9	0026
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	3	02							
						11	SC6	135	-007	-011	3	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	STATION		
137		OBS	0094	-0139	33669	2711			14425										
		STD	0100	-0135	33668	2712	0009503		14428										
		STD	0125	-0118	3373	2715	0009143		14441										
		STD	0150	-0101	3379	2719	0006795		14454										
		STD	0200	-0067	3365	2726	0006107		14480										
		STD	0250	-0033	3400	2733	0007448		14505										
		STD	0300	0001	3410	2740	0006627		14530										
		STD	0400	0069	3431	2753	0005052		14581										
137		OBS	04E1	0124	34481	2763			14621										

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DEPTH INDICATOR	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
					10'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.			
311680	WE	75564N	069340W	25S	59	07	27	167	1970	WE3	N27	0457		00	0	X		X 9	0027
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	3	09							
						10	SC4	145	006	000	5	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	STATION		
		STD	0010	-0116	3239	2607	0019499		14404										
167		OBS	0010	-0116	3239	2607			14404										
		STD	0020	-0132	3263	2643	0016060		14405										
		STD	0030	-0146	3318	2671	0013375		14405										
167		OBS	0045	-0161	33511	2659			14405										
		STD	0050	-0165	3353	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	3359	2705	0010117		14413										
		STD	0125	-0137	3364	2708	0009794		14431										
167		OBS	0125	-0137	3321P	26740													
167		OBS	0145	-0070	33659	2711			14467										
		STD	0150	-0057	3372	2712	0009472		14474										
167		OBS	0195	0047	33512	2722			14531										
		STD	0200	0056	3394	2724	0008402		14537										
		STD	0250	0129	3415	2737	0007255		14581										
167		OBS	0295	0167	34299	2746			14607										
		STD	0300	0167	3431	2747	0006326		14608										
167		OBS	0355	0158	34475	2760			14622										

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DEPTH INDICATOR	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
					10'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.			
311680	WE	76043N	069000W	25S	69	07	27	187	1970	WE3	N28	0146		00	0	X		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 (mbs)	DRY BULB	WET BULB	3	01							
						1E	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-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	STATION		
187		OBS	0045	-0069	33289	2678			14445										

REFERENCE CTRY 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'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			
311680	WE		78120N	069470W		259	69	07	27	203	1970	WE3	N29	0207		00	0	X				6	7	0029	
						WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS											
								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 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 ₂ -Si μg - ml/l	pH	S C C							
203		UBS	0055	-0140	33611	2706				14424															

REFERENCE CTRY 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'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			
311680	WE		78240N	072230W		260	63	07	30	193	1970	WE3	N30	0439		00	0	X				6	2	0030	
						WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS											
								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 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 ₂ -Si μg - ml/l	pH	S C C							
199		UBS	0069	-0046	3219	2588	0021273		0000	14432															
		STD	0010	-0046	32190	2588				14433															
		STD	0020	-0045	3220	2585	0021213		0021	14433															
		STD	0020	-0059	3234	2600	0020111		0041	14432															
199		UBS	0023	-0063	32403	2600				14431															
		STD	0030	-0062	3274	2632	0017098		0000	14428															
199		UBS	0042	-0104	33056	2663				14425															
		STD	0050	-0107	3315	2668	0013719		0091	14426															
199		UBS	0066	-0109	33240	2675				14429															
		STD	0075	-0104	3325	2675	0012639		0124	14433															
199		UBS	0088	-0100	33355	2684				14438															
		STD	0100	-0102	3341	2688	0011714		0154	14440															
		STD	0125	-0107	3354	2695	0010698		0182	14444															
199		UBS	0133	-0100	33564	2703				14445															
		STD	0150	-0095	3373	2714	0009275		0207	14450															
199		UBS	0178	-0077	33506	2728				14472															
		STD	0200	-0072	3354	2731	0007705		0250	14478															
		STD	0250	-0060	3402	2736	0007141		0287	14493															
199		UBS	0265	-0057	34044	2738				14497															
		STD	0300	-0050	3410	2742	0000577		0321	14507															
199		UBS	0354	-0041	34181	2745				14521															

REFERENCE CTRY 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'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			
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		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS											
								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 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 ₂ -Si μg - ml/l	pH	S C C							
224		UBS	0082	-0135	33127	2667				14416															
		STD	0100	-0125	3324	2676	0012906			14427															
		STD	0125	-0112	3340	2688	0011715			14439															
		STD	0150	-0098	3356	2701	0010535			14452															
		STD	0200	-0071	3368	2725	0008194			14477															
224		UBS	0230	-0055	34008	2740				14493															

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 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			NGT	PER	SEA		TYPE	AMT	

311680	WE	78313N	074220W	26C	04	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			

		C4	S12	126	032	006	9	02	
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MESSNGR TIME OF 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 ₂ -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			14418								
		STC	0100	-0125	3330	2681	0012419		14426								
		STC	0125	-0117	3344	2691	0011434		14438								
		STC	0150	-0104	3357	2702	0010452		14450								
		STD	0200	-0078	3383	2722	0008505		14473								
		STD	0250	-0053	3410	2742	0006589		14497								
005		OBS	0250	-0053	34097	2742			14497								

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 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			NGT	PER	SEA		TYPE	AMT	

311680	WE	77240N	075190W	26C	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			

		C9	S16	114	034	019	9	10	
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MESSNGR TIME OF 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 ₂ -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	0052	3165	2540	0025842	0000	14470								
071		OBS	0008	0052	31648	2540			14472								
		STC	0010	0061	3182	2554	0024551	0025	14476								
		STC	0020	0083	3248	2605	0015648	0047	14499								
071		OBS	0020	0083	32475	2605			14499								
		STD	0030	0085	3269	2623	0017901	0066	14495								
071		OBS	0037	0043	32790	2633			14488								
		STD	0050	-0030	3284	2640	0010325	0100	14457								
071		OBS	0057	-0056	32883	2645			14446								
		STC	0075	-0050	3303	2658	0014630	0139	14436								
071		OBS	0076	-0055	33054	2660			14435								
		STD	0100	-0130	3314	2668	0013647	0174	14423								
071		OBS	0115	-0144	33208	2674			14420								
		STD	0125	-0145	3325	2677	0012759	0207	14422								
		STD	0150	-0148	3337	2687	0011765	0236	14426								
071		OBS	0150	-0148	33374	2687			14426								
		STC	0200	-0085	3374	2714	0009221	0290	14469								
071		OBS	0226	-0055	33879	2725			14489								
		STD	0250	-0015	3398	2731	0007686	0332	14513								
		STD	0300	0025	3412	2740	0006821	0369	14542								
071		OBS	0303	0026	34126	2741			14543								
071		OBS	0305	-0046	34167	2748			14525								

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	NDDC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
311080	WE		77240N	074000W	200	74	07	31	108	1970	WE3	N34	0315		30	2	2		0	1	0034
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				65	51.6	12.4	034	01.9	06												

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\frac{\Delta \sigma}{\Delta \rho}$ 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	CTD
108		STC	0010	0197	3288	2830	0017353		14554								
		UBS	0010	0197	32875	2830			14554								
		STC	0020	0069	3258	2840	0015791		14500								
		STC	0030	-0029	3307	2850	0014015		14458								
108		UBS	0040	-0121	3317	2871			14419								
		STC	0050	-0122	3322	2874	0013121		14420								
108		UBS	0070	-0129	3337	2884			14423								
		STC	0075	-0126	3336	2885	0012002		14424								
		STC	0100	-0132	3347	2895	0011119		14427								
		STC	0125	-0136	3356	2903	0010290		14430								
108		UBS	0140	-0143	3352	2910			14432								
		STC	0150	-0135	3367	2911	0009504		14430								
108		UBS	0195	-0000	3381.8	2920			14477								
		STC	0200	-0001	3383	2921	0008570		14482								
		STC	0250	0006	3396	2929	0007907		14523								
108		UBS	0255	0060	3405.4	2933			14500								

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	NDDC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
311080	WE		70340N	071510W	200	61	07	31	149	1970	WE3	N35	1004		30	2	2		0	1	0035
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				16	51.2	6.5	046	034	9	02											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\frac{\Delta \sigma}{\Delta \rho}$ 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	CTD
140		UBS	0005	-0165	33607	2706			14411								
		STC	0100	-0155	3364	2705	0009795		14410								
		STC	0125	-0139	3369	2712	0009451		14431								
		STC	0150	-0122	3373	2716	0009110		14443								
		STC	0200	-0089	3383	2722	0008405		14468								
		STC	0250	-0057	3393	2729	0007045		14473								
		STC	0300	-0024	3403	2735	0007240		14518								
		STC	0400	0042	3422	2748	0006133		14507								
146		UBS	0484	0097	34388	2758			14600								

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	NDDC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
311680	WE		70483N	072110W	200	62	07	31	168	1970	WE3	N36	0406		03	2	2		6	1	0036
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				16	51.2	0.45	046	034	9	02											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\frac{\Delta \sigma}{\Delta \rho}$ 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	CTD
168		UBS	0094	-0166	33717	2715			14413								
		STC	0100	-0162	3373	2716	0009062		14416								
		STC	0125	-0143	3378	2720	0008701		14430								
		STC	0150	-0125	3383	2724	0008352		14443								
		STC	0200	-0089	3394	2731	0007660		14470								
		STC	0250	-0052	3404	2738	0007039		14497								
		STC	0300	-0016	3414	2744	0006427		14523								
168		UBS	0376	0040	3429.8	2754			14564								

Table with columns: REFERENCE, SHIP CODE, LATITUDE, LONGITUDE, MARSOEN SQUARE, STATION TIME, YEAR, ORIGINATOR'S, DEPTH TO BOTTOM, MAX. DEPTH OF SAMPLES, WAVE OBSERVATIONS, WEATHER CODE, CLOUD CODES, NOOC STATION NUMBER.

Table with columns: MESSAGE TIME, CAST NO., CARD TYPE, DEPTH (m), T °C, S %, SIGMA-T, SPECIFIC VOLUME, SOUND VELOCITY, O2 ml/l, PO4-P, TOTAL-P, NO2-N, NO3-N, SiO4-Si, pH.

Table with columns: REFERENCE, SHIP CODE, LATITUDE, LONGITUDE, MARSOEN SQUARE, STATION TIME, YEAR, ORIGINATOR'S, DEPTH TO BOTTOM, MAX. DEPTH OF SAMPLES, WAVE OBSERVATIONS, WEATHER CODE, CLOUD CODES, NOOC STATION NUMBER.

Table with columns: MESSAGE TIME, CAST NO., CARD TYPE, DEPTH (m), T °C, S %, SIGMA-T, SPECIFIC VOLUME, SOUND VELOCITY, O2 ml/l, PO4-P, TOTAL-P, NO2-N, NO3-N, SiO4-Si, pH.

Table with columns: REFERENCE, SHIP CODE, LATITUDE, LONGITUDE, MARSOEN SQUARE, STATION TIME, YEAR, ORIGINATOR'S, DEPTH TO BOTTOM, MAX. DEPTH OF SAMPLES, WAVE OBSERVATIONS, WEATHER CODE, CLOUD CODES, NOOC STATION NUMBER.

Table with columns: MESSAGE TIME, CAST NO., CARD TYPE, DEPTH (m), T °C, S %, SIGMA-T, SPECIFIC VOLUME, SOUND VELOCITY, O2 ml/l, PO4-P, TOTAL-P, NO2-N, NO3-N, SiO4-Si, pH.

REFERENCE CITY CODE	SNIP ID. NO.	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT 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		NOCC STATION NUMBER
						10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE		76325N	076415W		26	60	01	02	9	1970	WE3	N40	0185		00	0	0		0	0	0040
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE										
								C3	S13	C59	033	025	7	01								
MESSENGER TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \sigma$ 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 O D E					
029		UBS	0055	-0152	33341	2685			14415													

REFERENCE CITY CODE	SNIP ID. NO.	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT 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		NOCC STATION NUMBER
						10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE		76275N	077520W		26	67	08	01	04	1970	WE3	N41	0320		03	3	2		4	1	0041
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE										
								C3	S13	C58	033	025	8	01								
MESSENGER TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \sigma$ 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 O D E					
046		UBS	0177	-0150	33268	2675			14427													

REFERENCE CITY CODE	SNIP ID. NO.	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT 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		NOCC STATION NUMBER
						10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311680	WE		76115N	079075W		26	65	08	01	08	1970	WE3	N42	0110		05	0	2		4	2	0042
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE										
								C5	S11	111	024	016	8	01								
MESSENGER TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^t	$\Sigma \Delta \sigma$ 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 O D E					
084		OBS	0065	-0133	33346	2684			14419													

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 SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER							
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT						
311680		WE	75430N	07940W		26	55	06	01	144	1970	WE3	N43	0550		00	0	X		4	1	0043							
		WATER		WIND		BARO-METER		AIR TEMP. °C		SPECIAL OBSERVATIONS																			
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbars)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS											
						CC		SCC		117		016		008		9		09											

MESSAGE TIME OF 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 ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S. C.C.
		STC	0010	-0055	3259	2622	001000		14417								
144		DBS	0010	-0055	3259	2622			14417								
		STC	0020	-0125	3258	2655	0014947		14405								
144		DBS	0020	-0148	3310	2666			14402								
		STC	0030	-0146	3313	2668	0013727		14403								
144		DBS	0040	-0149	3318	2672			14406								
		STC	0050	-0145	3320	2673	0013207		14407								
144		DBS	0070	-0151	3323	2676			14410								
		STC	0075	-0154	3324	2677	0012018		14409								
144		DBS	0085	-0155	3326	2678			14409								
		STC	0100	-0153	3328	2680	0012530		14414								
		STC	0125	-0144	3331	2682	0012272		14423								
144		DBS	0145	-0137	3335	2685			14430								
		STC	0150	-0136	3337	2686	0011830		14432								
		STC	0200	-0124	3353	2655	0010640		14448								
		STC	0250	-0112	3368	2711	0010445		14454								
144		DBS	0293	-0102	3380	2720			14476								
		STC	0300	-0054	3382	2722	0008480		14483								
144		DBS	0352	-0020	3313	2673											
		STC	0400	-0016	3406	2738	0007018		14539								
144		DBS	0450	-0005	3423	2751			14561								

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 SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER							
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT						
311000		WE	75380N	079455W		26	59	08	01	150	1970	WE3	N44	0549		00	0	X		4	1	0044							
		WATER		WIND		BARO-METER		AIR TEMP. °C		SPECIAL OBSERVATIONS																			
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbars)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS											
						CC		SUC		119		044		027		9		02											

MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ 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 ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S. C.C.
		DBS	0055	-0158	3327	2679			14411								
		STC	0100	-0150	3328	2680	0012502		14413								
		STC	0125	-0146	3334	2685	0012037		14423								
		STC	0150	-0130	3341	2689	0011583		14432								
		STC	0200	-0110	3353	2655	0010660		14452								
		STC	0250	-0050	3365	2708	0009786		14471								
		STC	0300	-0070	3378	2717	0008908		14450								
		STC	0400	-0026	3402	2736	0007202		14529								
156		DBS	0450	-0004	3422	2750			14560								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARSDEN SQUARE	STATION TIME			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NDDC STATION NUMBER
						10'	1"	MO DAY HR./1710		CRUISE NO.	STATION NUMBER			DIL	HGT	PER			

3110DU	WE	7512UN	07840W		20C	50	06	C1	100	1970	WE3	N45		0000	00	0	X		317	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			

		17	SiC	C50	C58	U43	7	02	
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MESSAGE TIME HR./1710	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^{ρ}	$\Sigma \Delta$ 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	3
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100		UBS	0094	-0157	33013	2707			14410								
		STD	0100	-0155	3302	2700	0009894		14410								
		STD	0125	-0144	3307	2741	0009504		14420								
		STD	0150	-0134	3371	2714	0009270		14430								
		STD	0200	-0143	3375	2700	0009065		14457								
		STD	0250	-0052	3305	2720	0009071		14470								
		STD	0300	-0072	3356	2732	0007492		14495								
		STD	0400	-0030	3413	2744	0006304		14533								
100		UBS	0487	0000	34280	2755			14500								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARSDEN SQUARE	STATION TIME			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NDDC STATION NUMBER
						10'	1"	MO DAY HR./1710		CRUISE NO.	STATION NUMBER			DIL	HGT	PER			

3110DU	WE	7524UN	07750W		20C	57	06	C1	222	1970	WE3	N40		0446	00	0	X		318	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			

		04	Si1	109	030	U02	7	02	
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MESSAGE TIME HR./1710	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^{ρ}	$\Sigma \Delta$ 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	3
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221		UBS	0095	-0173	33587	2705			14400								
		STD	0100	-0108	3300	2700	0010025		14412								
		STD	0125	-0142	3307	2711	0009522		14429								
		STD	0150	-0116	3375	2710	0009040		14440								
		STD	0200	-0004	3309	2720	0006410		14481								
		STD	0250	-0012	3404	2736	0007247		14515								
221		UBS	0287	0020	34144	2742			14540								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARSDEN SQUARE	STATION TIME			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NDDC STATION NUMBER
						10'	1"	MO DAY HR./1710		CRUISE NO.	STATION NUMBER			DIL	HGT	PER			

3116SU	WE	7535UN	07714W		20C	57	06	C2	002	1970	WE3	N47		0366	00	1	X		718	0047
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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			

		C3	S05	124	022	019	7	08	
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MESSAGE TIME HR./1710	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}^{ρ}	$\Sigma \Delta$ 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	3
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002		STD	0010	0441	3281	2603	0019877		14658								
		UBS	0010	0441	32815	2603			14650								
		STD	0020	0152	3205	2650	0015407		14530								
002		UBS	0025	0045	33207	2606			14493								
		STD	0030	-0011	3330	2676	0012899		14469								
002		UBS	0045	-0128	33516	2658			14420								
		STD	0050	-0137	3354	2700	0010607		14417								
002		UBS	0070	-0152	33024	2708			14415								
		STD	0075	-0146	3364	2708	0009822		14418								
002		UBS	0055	-0123	33652	2712			14433								
		STD	0100	-0117	3370	2713	0009391		14437								
		STD	0125	-0085	3377	2717	0008984		14457								
002		UBS	0144	-0060	33027	2721			14473								
		STD	0150	-0049	3305	2722	0008520		14479								
002		UBS	0152	0008	33592	2731			14514								
		STD	0200	0006	3402	2733	0007520		14510								
		STD	0250	0007	3415	2744	0006524		14526								
002		UBS	0250	0007	34225	2750			14533								

REFERENCE CTRY ID.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 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	TYPE
311680	WE	75430N	076240W		260	59	08	02	016	1970	WE3	N48	0320		00	0	X		7	8		0048
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE										
								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_{θ} ?	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C					
015		UBS	0095	-0125	33715	2714			14433													
		STC	0100	-0116	3373	2715	0009174		14437													
		STC	0125	-0082	3382	2721	0008633		14459													
		STC	0150	-0047	3390	2726	0008124		14481													
		STC	0200	0024	3407	2737	0007169		14524													
018		UBS	0245	0068	34228	2745			14563													

REFERENCE CTRY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 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	TYPE
311680	WE	75517N	075404W		260	59	08	03	033	1970	WE3	N49	0333		00	0	X		7	8		0049
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE										
								I2	S1C	124	028	006	7	02								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C					
023		UBS	0094		33559																	
		STC	0100		3358																	
		STC	0125		3366																	
		STC	0150		3375																	
		STC	0200		3392																	
		STC	0250		3409																	
033		UBS	0260	0019	34191	2746			14536													

REFERENCE CTRY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 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	TYPE
311680	WE	75585N	074400W		260	54	08	02	053	1970	WE3	N50	0384		22	2	2		6	8		0050
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE										
								22	S13	126	C18	011	7	02								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ} ?	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C					
053		UBS	0094	-0144	33682	2712			14423													
		STC	0100	-0139	3370	2713	0009357		14427													
		STC	0125	-0116	3377	2718	0008882		14442													
		STC	0150	-0094	3384	2723	0008419		14458													
		STC	0200	-0049	3396	2733	0007523		14489													
		STC	0250	-0005	3412	2742	0006668		14520													
053		UBS	0253	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	
311080	WE		70075N	073450W		200	03	02	075	1970	WE3	N01	0420		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	(mbal)	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 AND MALT-STEP	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	σ _t C
075		UBS	0091	-0147	33646	2709			14421								
		STD	0100	-0136	3367	2711	0009505		14427								
		STD	0125	-0112	3375	2716	0009004		14444								
		STD	0150	-0086	3382	2721	0000570		14401								
		STD	0200	-0035	3397	2731	0007048		14496								
		STD	0250	0017	3412	2741	0000702		14530								
075		UBS	0264	0031	34161	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	
311080	WE		70145N	072470W		200	62	02	057	1970	WE3	N02	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	(mbal)	DRY BULB	WET BULB										
								11	517	131	012	000	7	07								

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-STEP	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	σ _t C
		STD	0010	0336	3265	2610	0016042		14014								
		UBS	0010	0336	32649	2616			14014								
		STD	0020	0066	3315	2603	0014145		14501								
		UBS	0025	-0020	33218	2679			14400								
		STD	0030	-0070	3329	2686	0011971		14443								
		UBS	0045	-0154	33549	2702			14409								
		STD	0050	-0161	3355	2702	0010440		14406								
		UBS	0070	-0170	33567	2705			14406								
		STD	0075	-0166	3360	2700	0010052		14409								
		UBS	0095	-0143	33661	2710			14424								
		STD	0100	-0134	3367	2711	0009557		14429								
		STD	0125	-0085	3375	2716	0009110		14457								
		UBS	0144	-0044	33826	2720			14480								
		STD	0150	-0024	3386	2722	0000558		14491								
		UBS	0151	0069	34047	2732			14543								
		STD	0200	0081	3406	2733	0007504		14541								
		STD	0250	0023	3412	2741	0006777		14533								
		UBS	0266	0004	34173	2746			14531								
		STD	0300	-0001	3419	2748	0006124		14531								
		UBS	0363	-0012	34305	2757			14541								

REFERENCE CRUISE CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METERS	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	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
					WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS											
311600	WE	76210N	072000W	200	62	08	02	114	1970	WE3	N53	0507		11	12				6	6	0053	
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	ND. OBS. DEPTHS											
						11	S17	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-2107	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	SI O ₄ -S µg - at/l	pH	S C C
114		UBS	0055	-0151	33596	2705			14419								
		STC	0100	-0149	3361	2706	0010049		14421								
		STC	0125	-0138	3365	2709	0009704		14431								
		STC	0150	-0126	3370	2713	0009309		14441								
		STC	0200	-0104	3375	2720	0008716		14461								
		STC	0250	-0081	3389	2726	0008070		14481								
		STC	0300	-0059	3398	2733	0007450		14501								
		STC	0400	-0034	3417	2746	0006241		14541								
114		UBS	0453	0028	34335	2758			14578								

REFERENCE CRUISE CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METERS	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	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
					WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS											
311630	WE	76280N	070500W	200	60	06	02	135	1970	WE3	N54	0292		07	02					0054		
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	ND. OBS. DEPTHS											
						07	S03	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-2107	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	SI O ₄ -S µg - at/l	pH	S C C
134		UBS	0054	-0174	33572	2704			14407								

REFERENCE CRUISE CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METERS	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	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
					WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS											
311680	WE	76350N	070420W	200	60	06	04	172	1970	WE3	N55	0547		00	0	X			7	6	0055	
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	ND. OBS. DEPTHS											
						21	S11	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-2107	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	SI O ₄ -S µg - at/l	pH	S C C
171		STC	0010	0121													
		UBS	0010	0121													
		STC	0020	-0003													
171		UBS	0025	-0051	33554	2662			14451								
		STC	0030	-0080	3341	2688	0011790		14439								
171		UBS	0045	-0145	33535	2700			14413								
		STC	0050	-0157	3354	2701	0010540		14406								
171		UBS	0070	-0173	33584	2705			14404								
		STC	0075	-0182	3360	2706	0010071		14410								
171		UBS	0094	-0122	33661	2710			14433								
		STC	0100	-0107	3368	2711	0009601		14441								
		STC	0125	-0053	3376	2715	0009167		14472								
171		UBS	0144	-0018	33827	2719			14492								
		STC	0150	-0005	3385	2720	0008727		14498								
171		UBS	0194	0047	33950	2729			14532								
		STC	0200	0051	3401	2730	0007832		14535								
		STC	0250	0077	3414	2735	0006906		14557								
171		UBS	0285	0052	34227	2745			14572								
		STC	0300	0055	3425	2747	0006295		14575								
171		UBS	0385	0110	34365	2757			14599								

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				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
	311680	WE	75573N	071330W		26C	51	08	04	156	1970	WE3	N50	0412		00	0	X			7	8	0056
						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											
									03	S13	174	G10	007	7	02								

MESSNGR 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 $\mu\text{g} \cdot \text{at/l}$	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	OBS	0059	-0105	3365E	2712			14441								
		STD	0100	-0108	3370	2712	0009448		14441								
		STD	0125	-0084	3377	2717	0008984		14457								
		STD	0150	-0061	3364	2722	0008533		14474								
		STD	0200	-0013	3358	2731	0007670		14500								
		STD	0250	0024	3412	2740	0000057		14538								
	196	OBS	0253	0075	34244	2748			14565								

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				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
	311680	WE	75500N	072250W		26C	52	08	04	214	1970	WE3	N57	0384		00	0	X			6	7	0057
						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											
									35	S05	155	021	011	7	02								

MESSNGR 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 $\mu\text{g} \cdot \text{at/l}$	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	OBS	0055	-0108	3370C	2713			14441								
		STD	0100	-0107	3370	2713	0009421		14442								
		STD	0125	-0087	3377	2717	0008905		14456								
		STD	0150	-0068	3364	2722	0008512		14470								
		STD	0200	-0028	3358	2731	0007043		14499								
		STD	0250	0012	3411	2740	0000815		14527								
	213	OBS	0253	0046	34228	2748			14552								

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				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
	311680	WE	75385N	073430W		26C	53	08	04	235	1970	WE3	N58	0402		00	0	X			6	8	0058
						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											
									36	S12	172	012	005	7	02								

MESSNGR 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 $\mu\text{g} \cdot \text{at/l}$	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.
	235	STD	0100	-0126	3366	2710	0009701		14427								
		OBS	0100	-0136	3365E	2710			14427								
		STD	0125	-0111	3373	2715	0009217		14444								
		STD	0150	-0080	3360	2720	0008756		14461								
		STD	0200	-0027	3354	2725	0007863		14494								
		STD	0250	0013	3408	2738	0007022		14527								
	235	OBS	0257	0060	34219	2746			14558								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUR. IN HOURS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOQC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
31108U	WE	75268N	074505W	26C	54	06	05	021	1970	WE3	N59	0457	UU	0	0	0		6	7		0059			
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB												
												03	S12	154	012	005	7	09						

MESSNGR TIME OF HR 1/10	CARD 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	°C
021		OBS	0015	0310	32750	2813			14005								
		STD	0020	0123	3311	2653	0015098		14520								
		STD	0030	-0129	3354	2700	0010637		14413								
021		UBS	0030	-0139	3353E	2700			14413								
		STD	0050	-0173	3358	2704	0010240		14401								
021		UBS	0050	-0173	3357E	2704			14401								
		STD	0075	-0178	3358	2705	0010176		14403								
021		UBS	0075	-0178	3358E	2705			14403								
		STD	0100	-0153	3363	2708	0009822		14419								
021		UBS	0100	-0153	3363E	2708			14419								
		STD	0125	-0098	3372	2714	0009285		14450								
		STD	0150	-0044	3382	2720	0008729		14481								
021		UBS	0150	-0044	3382E	2720			14481								
		STD	0200	0065	3406	2733	0007552		14542								
021		UBS	0200	0065	3406E	2733			14542								
		STD	0250	0054	3419	2742	0006719		14566								
021		OBS	0258	0055	34265	2748			14575								
		STD	0300	0054	3427	2748	0006114		14575								
021		UBS	0356	0012	34273	2753			14554								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUR. IN HOURS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOQC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
31108U	WE	7513UN	076150W	26C	56	06	04	043	1970	WE3	N60	0360	34	1	2		6	8		0060				
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB												
												03	S07	142	013	006	7	02						

MESSNGR TIME OF HR 1/10	CARD 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	°C
052		STD	0100	-0122	3374	2716	0009128		14435								
		UBS	0100	-0122	3373E	2716			14435								
		STD	0125	-0102	3380	2720	0008707		14449								
		STD	0150	-0083	3386	2724	0008298		14464								
		STD	0200	-0043	339E	2733	0007509		14492								
		STD	0250	-0004	3411	2741	0006750		14520								
052		UBS	0259	0035	34231	2749			14548								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUR. IN HOURS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOQC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
31108U	WE	75040N	076550W	26C	50	06	05	070	1970	WE3	N61	0311	34	1	2		6	8		0061				
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB												
												03	S07	142	013	006	7	02						

MESSNGR TIME OF HR 1/10	CARD 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	°C
070		UBS	0048	-0157	33571	2703			14406								
		STD	0050	-0154	3358	2704	0010279		14410								
		STD	0075	-0121	3366	2705	0009746		14431								
		STD	0100	-0087	3374	2715	0009226		14452								
		STD	0125	-0054	3382	2720	0008734		14472								
		STD	0150	-0020	3390	2725	0006271		14493								
070		UBS	0191	0035	34033	2733			14527								

REFERENCE		SHIP CODE	LATITUDE ° / 10'	LONGITUDE ° / 10'	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10'		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	A.M.T	
312800	WC	74540N	077430W	260	47	Ce	C5	090	1570	WE3	N62	0280	11	12					6	8		0062	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE										
								11	SC5	154	021	012	7	06									
MESSAGE TIME OF 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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CO ₂						
090		UBS	0015	0118	33037	2648			14322														
		STD	0020	0020	3314	2662	0014290		14482														
		STD	0030	-0105	3331	2681	0012475		14426														
090		UBS	0030	-0105	33311	2681			14426														
		STD	0030	-0143	3348	2696	0011021		14414														
090		UBS	0050	-0143	33484	2696			14414														
		STD	0075	-0157	3355	2701	0010488		14412														
		STD	0100	-0157	3361	2706	0010001		14417														
090		UBS	0100	-0157	33608	2706			14417														
		STD	0125	-0146	3365	2710	0009664		14427														
		STD	0150	-0117	3372	2715	0009220		14440														
090		UBS	0150	-0117	33723	2715			14440														
		STD	0200	-0004	3393	2726	0008143		14509														
090		UBS	0200	-0004	33926	2726			14509														

REFERENCE		SHIP CODE	LATITUDE ° / 10'	LONGITUDE ° / 10'	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10'		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	A.M.T	
311600	WE	74447N	078350W	260	46	Ce	C5	100	1570	WE3	N63	0420	10	12					6	8		0063	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE										
								11	SC5	154	021	012	7	02									
MESSAGE TIME OF 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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CO ₂						
108		STD	0100	-0156	3355	2702	0010433		14417														
		UBS	0100	-0156	33552	2702			14417														
		STD	0125	-0150	3363	2707	0009905		14434														
		STD	0150	-0103	3371	2713	0009389		14452														
		STD	0200	-0050	3386	2723	0008404		14487														
		STD	0250	-0002	3402	2733	0007473		14522														
108		UBS	0250	-0053	34167	2743			14555														

REFERENCE		SHIP CODE	LATITUDE ° / 10'	LONGITUDE ° / 10'	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10'		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	A.M.T	
311600	WE	74505N	078350W	260	48	08	C5	122	1570	WE3	N64	0500	09	12					6	8		0064	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE										
								20	SC6	142	025	007	7	02									
MESSAGE TIME OF 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 $\mu\text{g} - \text{at/l}$	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CO ₂						
125		STD	0100	-0175	3356	2705	0010140		14408														
		UBS	0100	-0175	33564	2705			14408														
		STD	0125	-0146	3366	2710	0009047		14427														
		STD	0150	-0116	3373	2715	0009167		14440														
		STD	0200	-0057	3388	2725	0008257		14484														
		STD	0250	-0002	3402	2734	0007414		14521														
		STD	0300	-0001	3417	2743	0006052		14559														
125		UBS	0350	-0165	34441	2757			14626														

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		NODC STATION NUMBER
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT	
311060	HC	74150N	078500W	200	48	08	05	145	1570	HE-3	N65	0078	1	1	2					6	8	0065
				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												
							09	SC2	125	025	002	7	02									
MESSAGE TIME HR. 1/10	CAST 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-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					
144		08S	0058	-0160	33659	2711			14416													
		STD	0100	-0159	3366	2711	0009577		14417													
		STD	0125	-0141	3371	2715	0009216		14430													
		STD	0150	-0122	3377	2718	0008860		14444													
		STD	0200	-0060	3387	2725	0008195		14470													
		STD	0250	-0050	3397	2732	0007553		14497													
		STD	0300	-0014	3408	2739	0006940		14523													
		STD	0400	0058	3428	2752	0005010		14575													
144		08S	0475	0115	34444	2761			14616													

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		NODC STATION NUMBER
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT	
311060	WE	74030N	079070W	200	45	08	05	171	1570	HE-3	N65	0023								6	8	0066
				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												
							15	SI7	115	023	015	7	12									
MESSAGE TIME HR. 1/10	CAST 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-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					
171		08S	0015	0127	3382	2651			14526													
		STD	0020	0020	3323	2665	0013572		14481													
		STD	0030	-0127	3345	2693	0011325		14417													
171		08S	0030	-0127	3345	2693			14417													
		STD	0050	-0147	3355	2702	0010479		14413													
171		08S	0050	-0147	3355	2702			14413													
		STD	0075	-0157	3357	2703	0010334		14412													
171		08S	0075	-0157	3357	2703			14412													
		STD	0100	-0167	3364	2709	0009726		14413													
171		08S	0100	-0167	3364	2709			14413													
		STD	0125	-0151	3364	2709	0009726		14425													
171		08S	0145	-0115	33657	2709			14440													
		STD	0150	-0112	3366	2709	0009736		14447													
171		08S	0159	0023	33711	2708			14516													
		STD	0200	0024	3371	2708	0009905		14519													
		STD	0250	0022	3387	2715	0006916		14547													
171		08S	0245	0085	34002	2727			14560													
		STD	0300	0085	3401	2726	0006002		14568													
171		08S	0355	0098	34238	2740			14592													
		STD	0400	0100	3425	2747	0006304		14594													
171		08S	0455	0123	34456	2762			14623													
		STD	0500	0124	3446	2762	0004947		14624													
171		08S	0555	0129	34454	2764			14643													
		STD	0600	0129	3445	2764	0004746		14644													
171		08S	0655	0110	34457	2766			14651													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN 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	
311000	WE		7350UN	07753UN		260	37	08	05	154	1970	WE3	No7	0009		00	0	X		6	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 (mba)		DRY BULB	WET BULB														
					19	51	7	115	023	006	7	01											
MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. x 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.						
194		UBS	0465	0122	34411	2750			14017														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN 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	
311000	WE		74099N	077210W		260	47	08	05	214	1970	WE3	No6	0700		00	0	X		7	0	0068	
						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														
					05	50	4	095	027	014	7	02											
MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. x 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.						
214		UBS	0098	-0155	33659	2714			14419														
		STD	0100	-0154	33700	2714	0009201		14420														
		STD	0125	-0155	33750	2710	0008930		14433														
		STD	0150	-0147	33800	2721	0008590		14447														
		STD	0200	-0081	33900	2720	0007946		14473														
		STD	0250	-0045	34000	2735	0007332		14500														
		STD	0300	-0008	34110	2741	0006733		14520														
		STD	0400	0004	34310	2753	0005000		14579														
	214	UBS	0492	0121	34452	2764			14626														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN 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	
311000	WE		74240N	077080W		260	47	08	05	237	1970	WE3	No9	0650		00	0	X		7	8	0069	
						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														
					29	50	3	104	017	000	7	02											
MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. x 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.						
237		STD	0100	-0162	33600	2706	0010045		14414														
		UBS	0100	-0162	33601	2700			14414														
		STD	0125	-0142	33600	2710	0009639		14429														
		STD	0150	-0121	33720	2714	0009245		14444														
		STD	0200	-0080	33830	2722	0008495		14473														
		STD	0250	-0040	33950	2730	0007770		14501														
		STD	0300	0001	34070	2737	0007097		14530														
		STD	0400	0003	34300	2751	0005855		14587														
	237	UBS	0492	0163	34525	2764			14642														

REFERENCE CTRY CODE	ID. NO.	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'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
511680		WE	74370N	076480W		260	46	08	08	014	1970	WE3	N70	0503		00	0	X			6	8	0070
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								25	SC3	100	C17	-011	7	09									

MESSAGE 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 $\mu\text{g} - \text{dl/l}$	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
014		UBS	0015	0323	32946	2625			14611								
		STC	0020	0124	3317	2656	0014637		14527								
		STC	0030	-0143	3346	2690	0011052		14410								
014		UBS	0030	-0143	33462	2690			14410								
		STC	0050	-0150	3357	2703	0010333		14409								
014		UBS	0050	-0150	33570	2703			14409								
		STC	0075	-0173	3359	2705	0010123		14405								
014		UBS	0075	-0173	33589	2705			14405								
		STC	0100	-0157	3364	2709	0009758		14417								
014		OBS	0100	-0157	33640	2709			14417								
		STC	0125	-0090	3373	2714	0009261		14454								
		STC	0150	-0037	3383	2720	0008759		14484								
014		UBS	0150	-0037	33826	2720			14484								
		STC	0200	0031	3402	2732	0007596		14527								
014		OBS	0200	0031	34023	2732			14527								
		STC	0250	0125	3421	2741	0006603		14580								
		STC	0300	0157	3432	2748	0006192		14604								
014		UBS	0300	0157	34321	2748			14604								
		STC	0400	0031	3433	2757	0005207		14504								
014		OBS	0400	0031	34327	2757			14504								

REFERENCE CTRY CODE	ID. NO.	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'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
511680		WE	74460N	076065W		260	46	08	08	032	1970	WE3	N71	0421		29	1	2			6	8	0071
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								25	SC6	050	J17	-011	7	02									

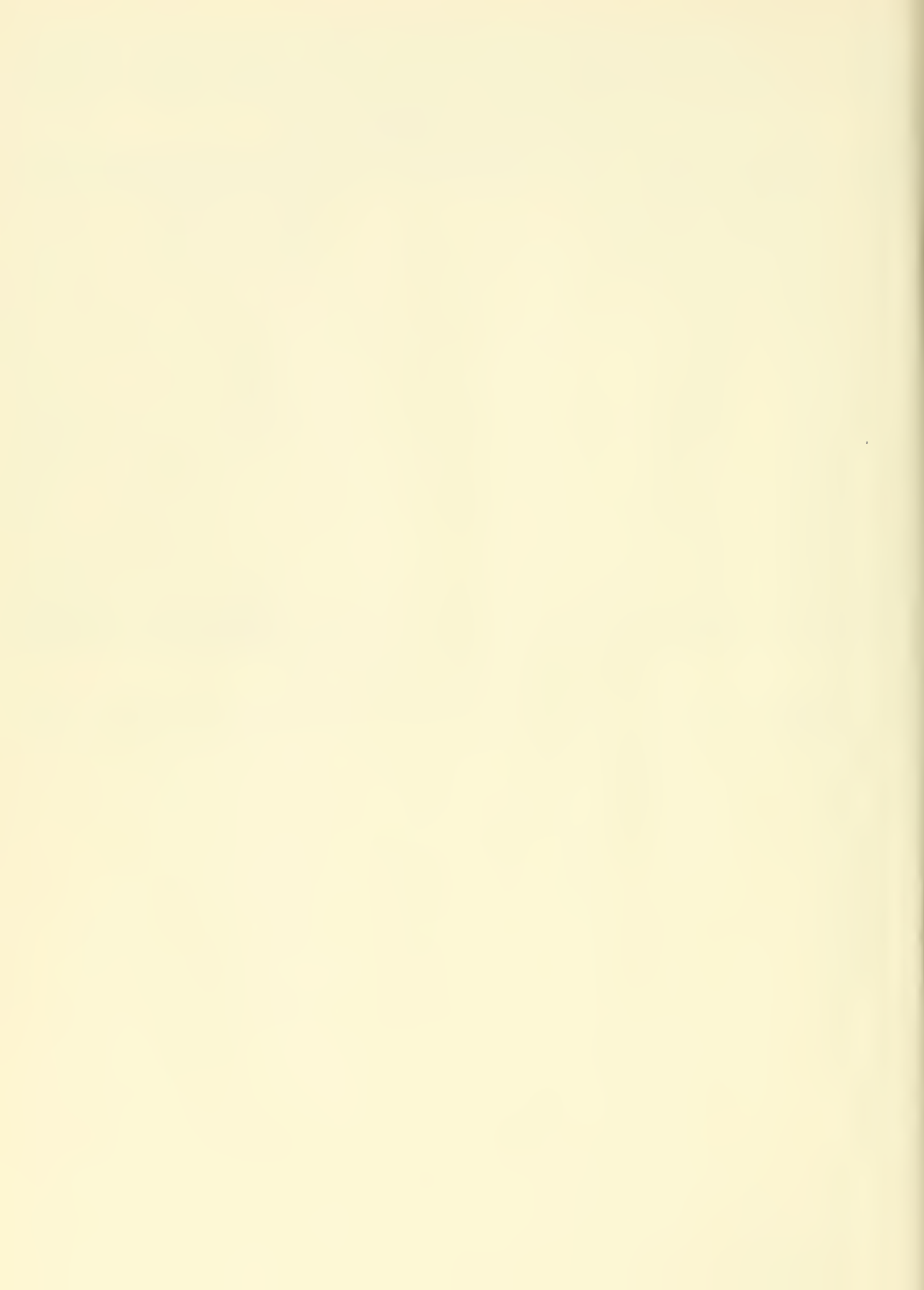
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
032		STC	0100	-0139	3368	2712	0009484		14426								
		OBS	0100	-0139	33683	2712			14426								
		STC	0125	-0106	3376	2717	0006985		14447								
		STC	0150	-0074	3384	2722	0006500		14467								
		STC	0200	-0009	3399	2732	0007009		14508								
		STC	0250	0056	3415	2741	0006791		14548								
		STC	0300	0121	3430	2749	0006055		14587								
032		OBS	0300	0121	34304	2749			14587								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARSOEN 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		
311680	WE		74570N	075170W		200	45	08	06	050	1970	WE3	N72	0420		22	1	2			X	17	0072	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR	SPEED OR FORCE	BARO-METER (mba)	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
									22	505	067	010	000	3	02									
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-310?	Σ Δ O 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	SI O ₂ -SI μg - dl/l	pH	S. CODE							
051		OBS	0097	-0100																				
		STC	0100	-0102																				
		STC	0125	-0107																				
		STC	0150	-0092																				
		STC	0200	-0023																				
		STC	0250	0047																				
051		OBS	0200	0057																				

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARSOEN 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		
311680	WE		75130N	073380W		200	53	08	06	050	1970	WE3	N73	0713		34	3	2				0	0073	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR	SPEED OR FORCE	BARO-METER (mba)	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
									32	512	042	033	027	7	11									
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-310?	Σ Δ O 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	SI O ₂ -SI μg - dl/l	pH	S. CODE							
090		OBS	0014	0172																				
		STC	0020	0010																				
090		OBS	0027	-0111																				
		STC	0030	-0123																				
090		OBS	0045	-0164																				
		STC	0050	-0107																				
090		OBS	0008	-0172																				
		STC	0075	-0172																				
090		OBS	0051	-0171																				
		STC	0100	-0166																				
		STC	0125	-0152																				
090		OBS	0136	-0146																				
		STC	0150	-0103																				
090		OBS	0175	-0037																				
		STC	0200	-0007																				
		STC	0250	0002																				
090		OBS	0202	0080																				
		STC	0300	0159																				
090		OBS	0331	0200																				
		STC	0400	0213																				
090		OBS	0411	0213																				
		STC	0500	0155																				
090		OBS	0513	0150																				

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 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			DR.	HGT	PER		SEA	TYPE		AMT					
311680	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 OF FORCE		METER		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						34		S12		026		044		036		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 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											
123		OBS	0050	-C174																								
		STD	0100	-C163																								
		STD	0125	-C136																								
		STD	0150	-C108																								
		STD	0200	-C053																								
		STD	0250	C002																								
		STD	0300	C056																								
123		OBS	0388	C153																								

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 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			DR.	HGT	PER		SEA	TYPE		AMT					
311680	WE		75365N	071020W	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 OF FORCE		METER		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						34		S12		026		044		036		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 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											
143		OBS	0027	-C176																								
		STD	0100	-C159																								
		STD	0125	-C127																								
		STD	0150	-C055																								
		STD	0200	-C030																								
		STD	0250	C035																								
		STD	0300	C059																								
143		OBS	0326	C133																								



532-AA

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