U.S. Coast Guard Oceanographic Report Bumpus
DEPARTMENT OF TRANSPORTATION

COAST GUARD

**OCEANOGRAPHIC OBSERVATIONS
NORTH ATLANTIC
OCEAN STATION CHARLIE**

April 1967 - April 1968

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OCEANOGRAPHIC REPORT

No. CG 373-61

NORTH ATLANTIC OCEAN STATION CHARLIE

April 1967 - April 1968

Lawrence J. Hannon

April 1974

United States Coast Guard
Oceanographic Unit
Washington, D.C.

USCGC HAMILTON (WHEC 715)

ABSTRACT

Oceanographic data from ten cruises on Ocean Station CHARLIE (52°45'N, 35°30'W) during the period April 1967 to April 1968 are presented. These data consist of observed and interpolated temperature and salinity data from 187 shallow (≤ 1500 meters) and 7 deep (> 1500 meters) casts. Temperature-depth and salinity-depth distribution plots show that the temperature distribution follows a seasonal trend, but the salinity distribution is more diverse. Temperature-salinity plots for the deep casts indicate the presence of Labrador Sea Water and Northeast Atlantic Deep Water. The thermohaline characteristics of the -20 salinity anomaly (Bubnov, 1967) indicate water of Subarctic Intermediate Water characteristics at Ocean Station CHARLIE. Examination of the sea surface temperature and salinity shows that Subarctic Intermediate Water was formed in the area of Ocean Station CHARLIE from January to April 1968 but not from June to November 1967.

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OCEANOGRAPHIC OBSERVATIONS NORTH ATLANTIC OCEAN STATION CHARLIE

52°45'N, 35°30'W

April 1967–April 1968

by

Lawrence J. Hannon¹

INTRODUCTION

Ocean Station CHARLIE is one of several ocean stations in the North Atlantic Ocean at which U.S. Coast Guard cutters regularly collect meteorological and oceanographical data. This report is the third United States Coast Guard Oceanographic Report (CG 373 Series) on Ocean Station CHARLIE. The two previous reports cover the periods June 1964 to January 1965 (Husby, 1966) and May 1966 to March 1967 (Husby, 1968).

DATA ACQUISITION AND PROCESSING

This report contains time series oceanographic data that were collected by the U.S. Coast Guard ocean station vessels at Ocean Station CHARLIE (52°45'N, 35°30'W) during the period April 1967 to April 1968 (Table 1).

Ocean station vessels normally maintain position within a ten mile square grid centered on the nominal station, operations and weather permitting. Actual positions of the stations taken during each patrol are presented in figures 1–10. Only those stations taken outside the ten mile square grid have been plotted.

The observational program consisted of daily Nansen casts with sampling depths of 0, 10, 30, 50, 75, 100, 150, 200, 400, 500, 600, 800, 1000, and 1500 meters. For deep casts, sampling depths were 2000, 2500, 3000, and 150 and 50 meters above the bottom as indicated by the vessels' fathometer. In April 1968 the USCGC HAM-

ILTON was one of the first ocean station vessels on an ocean station to use the Bissett-Berman Model 9006–N Salinity/Temperature/Depth Measuring System (STD). The STD casts were taken to a depth of 1500 meters each day at 0000, 0600, 1200, and 1800 GMT, weather and other operations permitting.

Each Nansen bottle was equipped with two protected deep-sea reversing thermometers. In addition five Nansen bottles, used at 200 meters and below, were fitted with an unprotected thermometer to allow determination of thermometric depths. Uncorrected main and auxiliary temperatures were transmitted via radio teletype to the Coast Guard Oceanographic Unit for real-time data processing and quality control.

Corrected temperatures and thermometric depths were computed with a Digital Equipment Corp. PDP–5 computer. After being quality controlled, these data were relayed to Fleet Weather Center, Norfolk, Va., and to Fleet Numerical Weather Central, Monterey, Calif., for use in forecasting synoptic oceanic conditions.

Salinities were determined aboard ship using an inductive salinometer. The conductivity values obtained were converted to salinities using the International Oceanographic Tables published jointly in 1966 by UNESCO and the National Institute of Oceanography of Great Britain. The results were sent to the Coast Guard Oceanographic Unit by radio teletype at intervals of 3–5 days. A second water sample was collected from the top and bottom Nansen bottles; these samples were processed at the Coast Guard Oceanographic Unit as a quality control.

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TABLE 1.—Oceanographic cruises on Ocean Station CHARLIE, April 1967 to April 1968.

Cruise No.	Vessel	Dates	Number of Casts		NODC Reference Number
			Shallow	Deep	
*C-11-----	USCGC INGHAM	12-30 Apr 67	14	1 (3099m)	31-886
C-12-----	USCGC CASTLE ROCK	25 May-14 Jun 67	21	1 (3391m)	31-1081
C-13-----	USCGC MENDOTA	9 Jul-1 Aug 67	24	1 (3453m)	31-1138
C-14-----	USCGC CHINCOTEAGUE	2-24 Aug 67	21	1 (3350m)	31-1143
C-15-----	USCGC BIBB	26 Aug-16 Sep 67	21	1 (3527m)	31-1159
C-16-----	USCGC OWASCO	15 Oct-2 Nov 67	11	1 (3457m)	31-1172
C-17-----	USCGC SEBAGO	28-30 Nov 67	2	1 (3500m)	31-1186
C-18-----	USCGC ESCANABA	11-31 Jan 68	17	0	31-1201
**C-19-----	USCGC SPENCER	28 Feb-14 Mar 68	8	0	31-1253
C-20-----	USCGC HAMILTON	10 Apr-1 May 68	55 STD	0	31-8043

*The C in the cruise number indicates Ocean Station CHARLIE. The number is the occupation number.

**No salinity data.

Data (STD) taken by the HAMILTON were relayed directly to Fleet Weather Center, Norfolk, Va. for use in forecasting synoptic oceanic conditions. In addition, all the data were returned to the Coast Guard Oceanographic Unit for quality control prior to submission to the National Oceanographic Data Center (NODC). The interpolated temperatures and salinities for standard depths, sigma-t values, specific volume anomalies, and sound velocities were computed by NODC and are presented in Appendix A.

Analysis of the oceanographic data was based on the distribution of temperature versus depth (figs. 11-20) and salinity versus depth (figs. 21-29). Temperature-salinity curves for all stations deeper than 1500 meters are shown in figure 30. The method of salinity anomalies from Helland-Hansen and Nansen (1926) was applied to the data for analysis of the presence of Subarctic Intermediate Water.

INTERPRETATION OF RESULTS

Temperature and Salinity Distributions

The maximum temperatures, which ranged from 11.80° C. to 12.20° C., occurred at the surface during August 1967 (fig. 14). The isothermal layer reached its greatest depth of about 200 meters in February and March 1968 (fig. 19) as a result of increased mixing due to wind and low surface temperatures.

The minimum salinities, which ranged from 34.67‰ to 34.81‰, occurred near the surface during January 1968 (fig. 28). Although the

range of the salinity minimum varied, there was a constant renewal of low salinity water at the surface during the year. (This low salinity intrusion will be discussed under Subarctic Intermediate Water.) The salinity maximum of 35.10‰ occurred in July 1967 at a depth of about 200 meters (fig. 23).

Labrador Sea Water (LS) and Northeast Atlantic Deep Water (NEAD)

Temperature-salinity plots (potential temperature was used for temperatures below 4° C) were constructed for all seven deep casts at Ocean Station CHARLIE (fig. 30). The points characteristic of the deep water masses in the area of Ocean Station CHARLIE are indicated on the T-S plots. These deep water masses and their acronyms are listed in Table 2 along with the scientists who defined them. Hereafter the acronyms in Table 2 will be used.

The most striking features of these deep T-S relationships are the salinity minimum at about 1000 meters depth and the increasing salinity values below 1000 meters. The salinity minimum is the result of the influence of LS. The increasing salinities below 1000 meters tend toward water of NEAD origin. According to Lee and Ellett (1967), NEAD is Scotland-Iceland overflow from the Norwegian Sea while NWAB is Greenland-Iceland overflow from the Norwegian Sea. They further theorized that NAD was formed by the mixing of NEAD with NWAB. Note that no NWAB or NAD is indicated by the T-S diagrams. It appears that Ocean Station CHAR-

TABLE 2.—Deep water masses of Ocean Station CHARLIE.

Water Mass	Acronyms	Defined By
Labrador Sea Water-----	LS	Worthington and Metcalf (1961)
North Atlantic Deep Water-----	NAD	Worthington and Metcalf (1961)
Northeast Atlantic Deep Water-----	NEAD	Worthington and Metcalf (1961) and by Lee and Ellett (1967)
Northwest Atlantic Bottom Water-----	NWAB	Lee and Ellett (1967)

LIE is too far southeast to be influenced by NWAB; thus, no NAD is formed.

Subarctic Intermediate Water (SAI)

The method of salinity anomalies from Heland-Hansen and Nansen (1926) was applied to the data collected on Ocean Station CHARLIE, April 1967 to April 1968. This method requires the determination of a T-S curve which is not influenced by the water mass or area to be studied. Using the Sargasso Sea T-S curve (Iselin, 1936) as a standard (fig. 31), observed T-S values from Ocean Station CHARLIE were compared, and the salinity anomalies (differences) were determined.

The results indicated a high negative salinity anomaly in the upper 200 meters at Ocean Station CHARLIE. A negative salinity anomaly value defines a salinity which is less than the salinity of the standard curve at a given temperature. A value of -20 , for example, means that the observed value is $.200\text{‰}$ less than the standard curve at the corresponding temperature.

Bubnov (1967) stated that the -20 salinity anomaly outlined the area of formation of SAI. The mean and the standard deviation of the depth, temperature, salinity, and sigma-t of the -20 salinity anomaly at O.S. CHARLIE (Table 3) for the period, April 1967 to April 1968, and their ranges were compared with the characteristics of SAI (Bubnov, 1968). This comparison between Bubnov's characteristics and O.S. CHARLIE'S characteristics is presented in Table 4 and shows a very good correlation. This close correlation, then, justified the use of the -20 salinity anomaly at O.S. CHARLIE as an indicator of the presence of SAI.

A comparison of the characteristics of SAI found in Table 4 with those of individual cruises in Table 3 would seem to indicate that water characteristic of SAI is present at Ocean Station CHARLIE during the entire year. However, to consider O.S. CHARLIE to be in the area of formation of SAI, the temperatures and salinities at the surface must also be characteristic

TABLE 3.—The mean and standard deviations of the depth, temperature, salinity, and sigma-t of the -20 salinity anomaly on Ocean Station CHARLIE, April 1967 to April 1968.

Date	Number of Stations*	Depth (m)	Temperature ($^{\circ}\text{C}$)	Salinity (‰)	Sigma-t
Apr 67-----	14**	52 $\pm$ 29	6.24 $\pm$.40	34.84 $\pm$.01	27.42 $\pm$.04
May-June 67-----	21**	78 $\pm$ 44	6.69 $\pm$ 1.0	34.86 $\pm$.05	27.37 $\pm$.11
Jul-Aug 67-----	24	63 $\pm$ 18	7.86 $\pm$.50	34.92 $\pm$.03	27.25 $\pm$.05
Aug 67-----	21	78 $\pm$ 26	7.53 $\pm$.66	34.90 $\pm$.03	27.28 $\pm$.07
Aug-Sep 67-----	21	71 $\pm$ 09	8.15 $\pm$.37	34.94 $\pm$.03	27.22 $\pm$.04
Oct-Nov 67-----	11	115 $\pm$ 27	6.83 $\pm$.77	34.87 $\pm$.04	27.35 $\pm$.08
Nov 67-----	2	125 $\pm$ 06	7.20 $\pm$.11	34.88 $\pm$.00	27.31 $\pm$.01
Jan 68-----	16**	115 $\pm$ 31	6.62 $\pm$.33	34.85 $\pm$.02	27.38 $\pm$.04
Apr 68-----	54 STD	129 $\pm$ 28	6.20 $\pm$.13	34.84 $\pm$.005	27.42 $\pm$.02

*Not all stations on every cruise had salinity data.

**No -20 salinity anomaly was observed for 7 of 14 stations in April 67, 12 of 21 in May-June 67, and 1 of 16 in January 68.

TABLE 4.—Comparison of Bubnov's characteristics of Subarctic Intermediate Water with the characteristics of the -20 salinity anomaly on Ocean Station CHARLIE, April 1967 to April 1968.

	T°C	Salinity (‰)	Sigma-t	Vertical Thickness (m)
Bubnov's Southern Area of Formation-----	4.5-7.0	34.70-35.00	27.40-27.70	150-200
-20 Salinity-----	6-8	34.83-34.92	27.25-27.43	100-160

of SAI. The means and standard deviations of the sea surface temperatures and salinities were computed for all cruises on Ocean Station CHARLIE (Table 5). Table 5 and the characteristics of the -20 salinity anomaly (Table 4) show that Ocean Station CHARLIE was in the area of formation of SAI during April 1967 to June 1967 and January 1968 to April 1968.

Bubnov (1968) proposed two areas of formation of SAI. Ocean Station CHARLIE is near Bubnov's southern area of formation (fig. 32).

Although he admitted the lack of winter and summer data, Bubnov believed that SAI was formed during the entire year in both the northern and the southern areas. Due to the close proximity and similar climatological conditions in the area of Ocean Station CHARLIE and the southern area of formation, it is unlikely that SAI was formed from July to November 1967 in the southern area. No conclusions can be made for the northern area of formation based on Ocean Station CHARLIE data.

TABLE 5.—The means and standard deviations of the sea surface temperature and salinity on Ocean Station CHARLIE April 1967 to April 1968.

Month	Number of Stations	Sea Surface Temperature (°C)	Sea Surface Salinity (‰)
Apr 67-----	14	6.59±.20	34.84±.03
May-Jun 67-----	21	8.22±.61	34.88±.07
Jul-Aug 67-----	24	10.88±.55	34.83±.04
Aug 67-----	21	11.50±.34	34.76±.04
Aug-Sep 67-----	21	11.08±.31	34.81±.05
Oct-Nov 67-----	11	9.20±.30	34.77±.04
Nov 67-----	2	8.30±.10	34.78±.02
Jan 68-----	17	7.00±.19	34.75±.07
Feb-Mar 68-----	8	6.78±.55	NONE
Apr 68-----	55 STD	6.51±.25	34.77±.04

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FIGURE 1. Positions of oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12-30 April 1967.

FIGURE 2. Positions of oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

FIGURE 3. Positions of oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

FIGURE 4. Positions of oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2-24 August 1967.

FIGURE 5. Positions of oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

FIGURE 6. Positions of oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

FIGURE 7. Positions of oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28-30 November 1967.

FIGURE 8. Positions of oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11-31 January 1968.

FIGURE 9. Positions of oceanographic stations taken by USCGC SPENCER at Ocean Station CHARLIE, 28 February to 14 March 1968.

FIGURE 10. Positions of oceanographic stations taken by USCGC HAMILTON at Ocean Station CHARLIE, 10 April to 1 May 1968.

FIGURE 11. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12-30 April 1967.

FIGURE 12. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

FIGURE 13. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

FIGURE 14. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2-24 August 1967.

FIGURE 15. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

FIGURE 16. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

FIGURE 17. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28-30 November 1967.

FIGURE 18. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11-31 January 1968.

FIGURE 19. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC SPENCER at Ocean Station CHARLIE, 28 February to 14 March 1968.

FIGURE 20. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC HAMILTON, with a Salinity-Temperature-Depth (STD) sensor, at Ocean Station CHARLIE, 10 April to 1 May 1968.

FIGURE 21. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12-30 April 1967.

FIGURE 22. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

FIGURE 23. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

FIGURE 24. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2-24 August 1967.

FIGURE 25. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

FIGURE 26. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

FIGURE 27. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28-30 November 1967.

FIGURE 28. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11-31 January 1968.

FIGURE 29. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC HAMILTON, with a Salinity-Temperature-Depth (STD) sensor at Ocean Station CHARLIE, 10 April to 1 May 1968.

FIGURE 30. Temperature versus salinity diagrams for all deep stations greater than 1500 meters. For temperatures below 4° C potential temperatures have been used. Depth given in decameters.

NAD—North Atlantic Deep Water

LS—Labrador Sea Water

NWAB—Northwest Atlantic Bottom Water

NEAD—Northeast Atlantic Deep Water

FIGURE 31. Iselin's 1936 temperature versus salinity correlation at all "Atlantis" stations within the Sargasso Sea.

FIGURE 32. Bubnov's 1968 scheme of the subarctic frontal zone on the surface of the ocean in the spring (A) and in the autumn (B) of 1958.

Water masses: A—Arctic; SA—Subarctic; CNA—Central North Atlantic
 Fronts: AF—Arctic; SAF-I—Primary Subarctic; SAF-II—Secondary Subarctic

Formation centers of the Subarctic Intermediate Waters are cross-hatched.

APPENDIX A

OCEANOGRAPHIC DATA

Cruises Listed

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I. USCGC INGHAM, April 1967 -----	22
II. USCGC CASTLE ROCK, May to June 1967 -----	30
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VII. USCGC SEBAGO, November 1967 -----	84
VIII. USCGC ESCANABA, January 1968 -----	85
IX. USCGC SPENCER, February to March 1968 -----	94
X. USCGC HAMILTON, April to May 1968 -----	98

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 -----	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, periods 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 -----	Letter S indicates wind speed in knots.
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 messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type -----	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m) -----	Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T ° C -----	Temperature to hundredths of a degree 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.
$\Sigma\Delta D$ Dyn. M $\times 10^3$ -----	Multiply entry by 10^{-3} to obtain anomaly of dynamic depth in dynamic meters referenced to the seasurface.
Sound Velocity -----	Sound velocity according to Wilson's formula entered to tenths of a meter per second.

TABLE I.—Observed and interpolated oceanographic data from stations taken by USCGC INGHAM, at Ocean Station CHARLIE, 12 April—30 April 1967, prepared from NODC Listing No. 31-886.

REFERENCE CTD CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E 1/10	HARSEN SQUARE	STATION TIME (GMT)	YEAR	OBSERVATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	HODC STATION NUMBER																																		
31 886	IN	5245 N	03545 W		184 25	04 12 123	1967	C11 001		2850	19	17	3	4	0001																																		
<table border="1"> <tr> <th rowspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">SPEED ON FORC</th><th rowspan="2">SARCO- METER (mm)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">REL. HUMIDITY</th><th rowspan="2">NO. OF DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr> <tr> <th>DIR</th><th>SPD</th><th>DRY BULB</th><th>WET BULB</th></tr> <tr> <td>COLOR CODE</td><td>WIND DIR</td><td>WIND SPD</td><td>REL. HUMIDITY</td><td>SARCO-METER</td><td>DRY BULB</td><td>WET BULB</td><td>REL. HUMIDITY</td><td>NO. OF DEPTHS</td><td>SPECIAL OBSERVATIONS</td></tr> <tr> <td></td><td>17</td><td>505</td><td>081</td><td>086</td><td>086</td><td></td><td>13</td><td></td><td></td></tr> </table>																WATER	WIND		SPEED ON FORC	SARCO- METER (mm)	AIR TEMP. °C		REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS	DIR	SPD	DRY BULB	WET BULB	COLOR CODE	WIND DIR	WIND SPD	REL. HUMIDITY	SARCO-METER	DRY BULB	WET BULB	REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS		17	505	081	086	086		13		
WATER	WIND		SPEED ON FORC	SARCO- METER (mm)	AIR TEMP. °C		REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS																																								
	DIR	SPD			DRY BULB	WET BULB																																											
COLOR CODE	WIND DIR	WIND SPD	REL. HUMIDITY	SARCO-METER	DRY BULB	WET BULB	REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS																																								
	17	505	081	086	086		13																																										
INVESTIGATOR HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	Sigma-t	SARCO VOLUME ANOMALY-DBP	S Δ D DYN. AL 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	DATE																																
		STD	0000	0626	3485	2742	0006644	0000	14759																																								
		OBS	0000	0626	34854	2742			14759																																								
123		STD	0010	0620	3487	2744	0006694	0007	14759																																								
		OBS	0013	0619	34869	2743			14759																																								
123		STD	0020	0618	3488	2746	0006380	0013	14760																																								
		STD	0030	0617	3488	2746	0006382	0019	14761																																								
123		OBS	0040	0616	34890	2747			14762																																								
		STD	0050	0615	3490	2747	0006274	0032	14764																																								
		OBS	0062	0613	34900	2748			14765																																								
123		STD	0075	0610	3490	2748	0006196	0048	14766																																								
		OBS	0093	0608	34905	2749			14768																																								
123		STD	0100	0608	3491	2749	0006177	0063	14769																																								
		OBS	0124	0607	34908	2749			14773																																								
		STD	0125	0607	3491	2749	0006171	0079	14773																																								
		STD	0150	0601	3491	2750	0006132	0094	14775																																								
123		OBS	0185	0595	34919	2752			14778																																								
		STD	0200	0595	3492	2752	0006053	0124	14781																																								
123		OBS	T0247	0590	34927	2753			14786																																								
		STD	0250	0588	3493	2753	0005982	0154	14786																																								
		STD	0300	0558	3493	2757	0005624	0183	14782																																								
		STD	0400	0504	3495	2765	0005003	0237	14777																																								
123		OBS	T0494	0462	34958	2771			14775																																								
		STD	0500	0459	3496	2771	0004503	0284	14775																																								
		STD	0600	0423	3494	2773	0004323	0328	14776																																								
123		OBS	0621	0418	34935	2774			14778																																								
		STD	0700	0406	3493	2775	0004292	0371	14784																																								
123		OBS	T0748	0400	34925	2775			14791																																								
		STD	0800	0394	3493	2775	0004284	0414	14797																																								
		STD	0900	0383	3492	2776	0004254	0457	14809																																								
		STD	1000	0374	3492	2777	0004243	0499	14822																																								
		STD	1100	0365	3492	2778	0004229	0542	14835																																								
		STD	1200	0358	3492	2779	0004228	0584	14849																																								
123		OBS	T1254	0354	34921	2779			14856																																								
		STD	1300	0351																																													
		STD	1400	0346																																													
		STD	1500	0341																																													
		STD	1750	0334																																													
123		OBS	T1846	0333																																													

REFERENCE CTD CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E 1/10	HARSEN SQUARE	STATION TIME (GMT)	YEAR	OBSERVATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	HODC STATION NUMBER																																		
31 886	IN	5255 N	03532 W		184 25	04 14 125	1967	C11 002		2743	14	34	4	4	0002																																		
<table border="1"> <tr> <th rowspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">SPEED ON FORC</th><th rowspan="2">SARCO- METER (mm)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">REL. HUMIDITY</th><th rowspan="2">NO. OF DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr> <tr> <th>DIR</th><th>SPD</th><th>DRY BULB</th><th>WET BULB</th></tr> <tr> <td>COLOR CODE</td><td>WIND DIR</td><td>WIND SPD</td><td>REL. HUMIDITY</td><td>SARCO-METER</td><td>DRY BULB</td><td>WET BULB</td><td>REL. HUMIDITY</td><td>NO. OF DEPTHS</td><td>SPECIAL OBSERVATIONS</td></tr> <tr> <td></td><td>13</td><td>512</td><td>173</td><td>075</td><td>072</td><td>5</td><td>14</td><td></td><td></td></tr> </table>																WATER	WIND		SPEED ON FORC	SARCO- METER (mm)	AIR TEMP. °C		REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS	DIR	SPD	DRY BULB	WET BULB	COLOR CODE	WIND DIR	WIND SPD	REL. HUMIDITY	SARCO-METER	DRY BULB	WET BULB	REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS		13	512	173	075	072	5	14		
WATER	WIND		SPEED ON FORC	SARCO- METER (mm)	AIR TEMP. °C		REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS																																								
	DIR	SPD			DRY BULB	WET BULB																																											
COLOR CODE	WIND DIR	WIND SPD	REL. HUMIDITY	SARCO-METER	DRY BULB	WET BULB	REL. HUMIDITY	NO. OF DEPTHS	SPECIAL OBSERVATIONS																																								
	13	512	173	075	072	5	14																																										
INVESTIGATOR HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	Sigma-t	SARCO VOLUME ANOMALY-DBP	S Δ D DYN. AL 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	DATE																																
		STD	0000	0658	3487	2739	0006943	0000	14772																																								
123		OBS	0000	0658	34868	2739			14772																																								
123		OBS	0009	0625	34851	2742			14760																																								
		STD	0010	0625	3485	2742	0006669	0007	14761																																								
		STD	0020	0621	3486	2743	0006596	0013	14761																																								
123		OBS	0027	06340	34859	27420																																											
		STD	0030	0618	3486	2744	0006544	0020	14761																																								
123		OBS	0043	0615	34884	2746			14762																																								
		STD	0050	0613	3489	2747	0006287	0033	14763																																								
123		OBS	0064	0611	34891	2747			14764																																								
		STD	0075	0611	3490	2748	0006223	0048	14766																																								
123		OBS	0085	0610	34904	2748			14768																																								
		STD	0100	0608	3491	2749	0006148	0064	14769																																								
		STD	0125	0603	3491	2750	0006121	0079	14771																																								
123		OBS	0128	0602	34914	2750			14772																																								
		STD	0150	0595	3491	2751	0006057	0094	14772																																								
123		OBS	T0172	0589	34900	2751			14773																																								
		STD	0200	0583	3491	2752	0005976	0125	14776																																								
		STD	0250	0572	3491	2754	0005909	0154	14779																																								
		STD	0300	0561	3492	2756	0005768	0183	14783																																								
123		OBS	T0342	0552	34924	2757			14787																																								
		STD	0400	0502	3493	2764	0005128	0238	14776																																								
123		OBS	0430	0485	34927	2766			14774																																								
		STD	0500	0474	3493	2767	0004881	0288	14781																																								
123		OBS	T0518	0471	34935	2768			14783																																								
		STD	0600	0451	3493	2770	0004717	0336	14788																																								
123		OBS	0655	0438	34923	2771			14792																																								
		STD	0700	0426	3492	2772	0004600	0383	14794																																								
		STD	0800	0401	3491	2774	0004477	0428	14800																																								
		STD	0900	0380	3491	2775	0004352	0472	14808																																								
123		OBS	T0900	0380	34906	2775			14808																																								
		STD	1000	0363	3491	2777	0004209	0515	14817																																								
		STD	1100	0350	3492	2779	0004102	0556	14829																																								
		STD	1200	0340	3492	2780	0004033	0597	14841																																								
		STD	1300	0335	3492	2781	0004014	0637	14856																																								
		STD	1400	0333	3493	2782	0004036	0678	14872																																								
123		OBS	T1420	0333	34929	2782			14876																																								

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[illegible][illegible]

TABLE I.—Continued

REFERENCE SHIP CODE	SHIP NO.	LATITUDE L/16	LONGITUDE W/16	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MALL DEPTH OF FATHOMS	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODES	MOOD STATION NUMBER	
					12	11	MO DAY HR/16		CRUISE NO.	STATION NUMBER			DL	HGT	PER	SEA				
31 886	IN	5248 N	03526 W	184	25	04	17 121	1967	C11	005	3400	15	19	3	4		X4	5 8	0005	
				WATER COLOR CODE	WIND		BARO- METER (mm)	AIR TEMP. °C		VEL CODE	NO. OF DEPTHS	SPECIAL OBSERVATIONS								
					TRANS (mi)	DIR		DRY BUL	WET BUL											
							19	505	193	083	083	5	14							
MEASURED TIME HR/16	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. AL 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH				
		STD	0000	0648	3481	2736	0007226	0000	14768											
		OBS	0000	0648	34813	2736			14768											
		STD	0010	0648	3481	2736	0007286	0007	14769											
		OBS	0010	0648	34807	2736			14769											
		STD	0020	0643	3482	2738	0007141	0014	14769											
		STD	0030	0637	3484	2740	0006931	0022	14768											
		OBS	0033	0634	34844	2741			14768											
		STD	0050	0615	3487	2745	0006461	0035	14763											
		OBS	0053	0612	34878	2746			14763											
		STD	0075	0603	3490	2749	0006162	0051	14763											
		OBS	0080	0602	34899	2749			14763											
		STD	0100	0604	3490	2749	0006176	0066	14768											
		OBS	0106	0605	34904	2749			14769											
		STD	0125	0601	3491	2750	0006096	0081	14771											
		STD	0150	0597	3491	2751	0006082	0097	14773											
		OBS	0159	0595	34913	2751			14774											
		STD	0200	0589	3491	2752	0006052	0127	14778											
		OBS	0212	0587	34909	2752			14779											
		STD	0250	0569	3492	2755	0005798	0157	14778											
		STD	0300	0547	3493	2758	0005519	0185	14778											
		STD	0400	0506	3494	2764	0005072	0238	14778											
		OBS	T0416	0500	34946	2765			14778											
		STD	0500	0469	3495	2769	0004688	0287	14779											
		OBS	0524	0408Q	34949	2776Q														
		STD	0600	0437	3495	2773	0004404	0332	14782											
		OBS	T0624	0430	34952	2774			14784											
		STD	0700	0410	3494	2775	0004284	0376	14788											
		STD	0800	0390	3492	2775	0004297	0418	14796											
		OBS	0817	0387	34913	2775			14797											
		STD	0900	0378	3492	2776	0004254	0461	14807											
		STD	1000	0368	3492	2778	0004202	0504	14820											
		OBS	T1015	0367	34919	2778			14822											
		STD	1100	0360	3492	2779	0004184	0545	14833											
		STD	1200	0353	3493	2780	0004108	0587	14847											
		STD	1300	0348	3493	2780	0004128	0628	14862											
		STD	1400	0344	3494	2782	0004084	0669	14877											
		STD	1500	0342	3494	2782	0004137	0710	14893											
		OBS	T1948	0341	34947	2783			14901											

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DATE	STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MALL	WAVE OBSERVATIONS				WEA-THIR CODE	CLOUD CODES	MALL STATION NUMBER
CRUISE NO.	NO. IN.		L/16	W/16	DAY	HR	MO	DAY	HR/16		CRUISE NO.	STATION NUMBER	TO BOTTOM	OF FATHOMS	DL	HGT	PER	SEA			
31	886	IN	5257 N	03531 W	184	25	04	18	130	1967	C11	006	2150	15	15	3	5		X8	5 8	0006
				WATER		WIND		BARO-METER		AIR TEMP. °C		VELOCITY		NO. OF DEPTHS		SPECIAL OBSERVATIONS					
				COLOR CODE		TRANS. DIR.		DRY BUL		WET BUL		VE. CODE									
								21		510		166		083		078		7		14	
MEASURED TIME HR/16	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T		SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. AL 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	
		STD	0000	0661	3484	2737		0007175		0000		14773									
130	OBS	0000	0661	34842	2737				0007163		0007		14774								
	STD	0010	0660	3484	2737								14774								
130	OBS	0010	0660	34844	2737								14774								
	STD	0020	0656	3485	2738		0007082		0014		14775										
	STD	0030	0650	3485	2739		0007021		0021		14774										
130	OBS	0032	0649	34853	2739						14774										
130	OBS	0049	0637	34864	2742						14772										
	STD	0050	0637	3486	2742		0006782		0035		14772										
	OBS	0074	0634	34873	2743						14775										
	STD	0075	0634	3487	2743		0006714		0052		14775										
	OBS	0098	0623	34878	2745						14775										
	STD	0100	0622	3488	2745		0006547		0069		14775										
	STD	0125	0613	3488	2746		0006470		0085		14775										
130	OBS	0147	0606	34883	2747						14776										
	STD	0150	0605	3488	2747		0006383		0101		14776										
130	OBS	0196	0594	34890	2749						14779										
	STD	0200	0592	3489	2750		0006238		0132		14779										
	STD	0250	0570	3489	2753		0006011		0163		14778										
	STD	0300	0548	3490	2756		0005791		0193		14778										
130	OBS	T0395	0506	34900	2761						14776										
	STD	0400	0503	3490	2761		0005334		0248		14776										
130	OBS	0494	0461	34900	2766						14774										
	STD	0500	0459	3490	2766		0004927		0300		14774										
130	OBS	T0595	0423	34906	2771						14776										
	STD	0600	0424	3491	2771		0004550		0347		14777										
	STD	0700	0403	3491	2773		0004406		0392		14784										
	OBS	0792	0388	34916	2775						14793										
	STD	0800	0387	3492	2776		0004240		0435		14794										
	STD	0900	0377	3493	2778		0004139		0477		14807										
130	OBS	T0978	0370	34934	2779						14817										
	STD	1000	0368	3493	2779		0004091		0518		14820										
	STD	1100	0360	3494	2780		0004066		0559		14833										
	STD	1200	0353	3494	2781		0004057		0599		14847										
	STD	1300	0347	3494	2781		0004057		0640		14861										
	STD	1400	0343	3494	2782		0004079		0681		14877										
	STD	1500	0339	3494	2782		0004092		0721		14892										
130	OBS	T1527	0338	34941	2782						14896										

TABLE I.—Continued

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REFERENCE FORM CODE	SHIP CODE	LATITUDE ° 1/16	LONGITUDE ° 7/16	E L	WATSON SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF STATION	WAVE OBSERVATIONS				WEA- THIS CODE	CLOUD CODES		MODE STATION NUMBER				
						DATE					CRUISE NO.	STATION NUMBER			OBS. NO.	WAVE NO.	SEA NO.	TYPE		AMT						
						1P	1"	MO	DAY												HR		1/16			
31	886	IN	5243 N	03538 W	184	25	04	20	124	1967	C11	008	2743	14	07	2	4	X2	5	8	0008					
						WATER		WIND		BARO- METER NO.		AIR TEMP. °C		NO. OF SPECIAL OBSERVATIONS												
						COLOR CODE		TRANS. NO.		DIR. SPEED OR FORCE		DIR. BULB		WET BULB		VSL CODE										
						12		S14		190		067		061		6		14								
REFERENCE FORM NO. 1/16	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t (°)		S Δ D DPR. AL S 10°		SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	PH						
		STD	0000	0638	3478	2735		0007339		0000		14763														
124		OBS	0000	0638	34781	2735						14763														
124		OBS	0009	0637	34805	2737						14765														
		STD	0010	0637	3480	2737		0007199		0007		14765														
		STD	0020	0632	3480	2737		0007152		0014		14764														
124		OBS	0028	0626	34794	2738						14763														
		STD	0030	0624	3479	2738		0007111		0022		14763														
124		OBS	0044	0607	34797	2740						14758														
		STD	0050	0600	3481	2742		0006724		0035		14757														
124		OBS	0045	0581	34822	2744						14752														
		STD	0075	0563	3482	2748		0006222		0052		14746														
124		OBS	0087	0547	34821	2750						14741														
		STD	0100	0544	3483	2751		0005970		0067		14742														
		STD	0125	0536	3484	2753		0005894		0082		14743														
124		OBS	0129	0534	34843	2753						14743														
		STD	0150	0524	3484	2754		0005710		0096		14743														
124		OBS	T0173	0513	34840	2755						14742														
		STD	0200	0506	3486	2758		0005428		0124		14744														
		STD	0250	0491	3489	2762		0005090		0150		14746														
		STD	0300	0475	3490	2765		0004890		0175		14748														
124		OBS	T0341	0461	34914	2767						14749														
		STD	0400	0436	3492	2770		0004445		0222		14748														
124		OBS	0430	0427	34915	2771						14750														
		STD	0500	0421	3492	2772		0004349		0266		14759														
124		OBS	T0520	0419	34920	2772						14761														
		STD	0600	0401	3492	2774		0004213		0309		14767														
124		OBS	0697	0385	34913	2775						14776														
		STD	0700	0385	3491	2775		0004200		0351		14777														
		STD	0800	0376	3491	2776		0004187		0393		14790														
124		OBS	T0872	0370	34906	2776						14799														
		STD	0900	0368	3491	2777		0004204		0435		14803														
		STD	1000	0362	3491	2777		0004205		0477		14817														
		STD	1100	0357	3491	2778		0004214		0519		14832														
		STD	1200	0354	3491	2779		0004238		0561		14847														
		STD	1300	0352	3492	2779		0004280		0604		14863														
124		OBS	T1385	0351	34918	2779						14877														

TABLE I.—Continued

REFERENCE		SHIP	LATITUDE		LONGITUDE	HARDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER												
CRUISE NO.	ID.	CODE	1/10	1/10	10'		1"	MO		DAY	HR			1/10	CRUISE NO.	STATION NUMBER				DR.	HT	PER	SEA	DIR	AMT						
31	886	IN	5251	N	03530	W	184	25	04	21	123	1967	C11	009	3000	15	19	3	5		X1	7	3							0009	
MESSAGE TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	AIR TEMP. °C		SPECIFIC VOLUME ANOMALY-20°	S.D. DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CC											
								WATER	WIND												BARO- METER (mmHg)	REL. HUMIDITY (%)	DRY BULB	WET BULB	VPL CODE	SPECIAL OBSERVATIONS					
								15	505	108	089	089	7	14																	
			STD	0000	0665	3481	2734																								
	123		OBS	0000	0665	34814	2734																								
			STD	0010	0662	3482	2735																								
	123		OBS	0010	0662	34822	2735																								
			STD	0020	0658	3483	2736																								
			STD	0030	0650	3485	2739																								
	123		OBS	0030	0650	34847	2739																								
			STD	0050	0626	3488	2745																								
	123		OBS	0050	0626	34883	2745																								
	123		OBS	0074	0618	34906	2748																								
			STD	0075	0618	3491	2748																								
	123		OBS	0099	0612	34914	2749																								
			STD	0100	0612	3491	2749																								
			STD	0125	0610	3492	2750																								
	123		OBS	0149	0608	34934	2751																								
			STD	0150	0608	3493	2751																								
	123		OBS	T0199	0604	34934	2752																								
			STD	0200	0603	3493	2752																								
			STD	0250	0578	3494	2755																								
			STD	0300	0553	3494	2759																								
	123		OBS	0397	0505	34951	2763																								
			STD	0400	0503	3495	2763																								
	123		OBS	0496	0458	34942	2770																								
			STD	0500	0456	3494	2770																								
	123		OBS	T0596	0422	34934	2773																								
			STD	0600	0421	3493	2773																								
			STD	0700	0401	3493	2775																								
	123		OBS	0793	0386	34922	2776																								
			STD	0800	0385	3492	2776																								
			STD	0900	0377	3492	2777																								
	123		OBS	T0989	0370	34920	2778																								
			STD	1000	0369	3492	2778																								
			STD	1100	0362	3493	2779																								
			STD	1200	0356	3493	2780																								
			STD	1300	0350	3494	2781																								
			STD	1400	0345	3495	2782																								
			STD	1500	0341	3495	2783																								
	123		OBS	T1502	0341	34952	2783																								

REFERENCE SHIP CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S STATION NUMBER		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER
					10'	1"		CRUISE NO.	DR.			HGT	PER	SEA			
31 886	IN	5254 N	03526 W	184	25	04 22 124	1967	C11	010	2400	14	19	3	5	X8	5 8	0010
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D. DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	
		STD	0000	0662	3486	2738	0007039	0000	14774								
124		OBS	0000	0662	34862	2738			14774								
124		OBS	0009	0660	34860	2738			14774								
		STD	0010	0659	3486	2739	0007031	0007	14774								
		STD	0020	0650	3486	2740	0006924	0014	14772								
124		OBS	0027	0643	34861	2741			14771								
		STD	0030	0638	3487	2742	0006719	0021	14769								
124		OBS	0043	0623	34886	2745			14766								
		STD	0050	0619	3489	2746	0006361	0034	14765								
124		OBS	0065	0614	34900	2748			14766								
		STD	0075	0613	3491	2749	0006174	0050	14767								
124		OBS	0091	0612	34915	2749			14769								
		STD	0100	0610	3492	2750	0006113	0065	14770								
		STD	0125	0608	3493	2750	0006072	0080	14774								
124		OBS	0135	0607	34928	2751			14775								
		STD	0150	0607	3493	2751	0006061	0095	14778								
124		OBS	T0180	0608	34937	2751			14783								
		STD	0200	0600	3494	2752	0005981	0125	14783								
		STD	0250	0581	3494	2755	0005798	0155	14784								
		STD	0300	0563	3494	2757	0005626	0183	14785								
124		OBS	T0346	0547	34944	2760			14786								
		STD	0400	0529	3496	2763	0005202	0238	14787								
124		OBS	0435	0517	34968	2765			14788								
		STD	0500	0490	3498	2769	0004700	0287	14788								
124		OBS	T0522	0482	34987	2771			14789								
		STD	0600	0457	3498	2773	0004417	0333	14791								
124		OBS	0696	0429	34961	2775			14795								
		STD	0700	0428	3496	2775	0004327	0376	14795								
		STD	0800	0402	3494	2776	0004266	0419	14801								
124		OBS	T0867	0387	34929	2776			14806								
		STD	0900	0384	3493	2777	0004223	0462	14810								
		STD	1000	0376	3493	2778	0004197	0504	14823								
		STD	1100	0367	3493	2779	0004166	0546	14836								
		STD	1200	0359	3494	2780	0004132	0587	14849								
		STD	1300	0350	3494	2781	0004095	0628	14863								
124		OBS	T1371	0344	34939	2782			14872								

TABLE I.—Continued

REFERENCE CITY NO.	SHIP CODE	LATITUDE 1/18	LONGITUDE 1/18	E W	HAERDEN SQUARE	STATION TIME GMT		YEAR	OBSERVATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS	WEA- THIR CODE	CLOUD CODES	NODC STATION NUMBER		
						10'	1"		CRUISE NO.	STATION NUMBER								
31 886	IN	5247 N	03519 W		184	25	04 25 141	1967	C11	011	2372	14	21	8	5	X2 3 8	0011	
					WATER		WIND	BARO- METER		AIR TEMP. °C		NO. OBL. DEPTHS	SPECIAL OBSERVATIONS					
					COLOR CODE	TRANS. IN	DIR. DEG.	SPEED OR FORCE	DRY BULB	WET BULB	VS. CODE							
							23	520	047	069	067	7	14					
MESSENGER TIME HE 1/18	CARD NO.	CARD TYPE	DEPTH (m)	1 °C	5 %	SGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		3.0 D DYN. AL. S 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	
		STD	0000				3488											
141	OBS	0000		3488			34884											
141	OBS	0008		34883														
	STD	0010		3488														
	STD	0020		3488														
141	OBS	0027	0648	34883	2742					14773								
	STD	0030	0647	3488	2742		0006737			14773								
141	OBS	0043	0646	34884	2742					14775								
	STD	0050	0646	3489	2742		0006736			14776								
141	OBS	0064	0647	34890	2743					14779								
	STD	0075	0636	3491	2746		0006463			14776								
141	OBS	0085	0629	34926	2748					14775								
	STD	0100	0626	3493	2749		0006201			14777								
	STD	0125	0621	3495	2750		0006074			14779								
141	OBS	0128	0620	34947	2751					14779								
	STD	0150	0620	3496	2751		0006036			14783								
141	OBS	T0166	0618	34960	2752					14785								
	STD	0200	0555	3496	2755		0005770			14781								
	STD	0250	0555	3496	2758		0005488			14777								
	STD	0300	0540	3495	2761		0005269			14775								
141	OBS	0369	0514	34948	2764					14776								
	STD	0400	0510	3496	2765		0004971			14780								
141	OBS	0471	0492	34972	2768					14784								
	STD	0500	0478	3497	2770		0004631			14783								
141	OBS	T0576	0446	34955	2772					14782								
	STD	0600	0438	3495	2773		0004416			14783								
	STD	0700	0410	3493	2774		0004338			14787								
141	OBS	0784	0392	34924	2776					14794								
	STD	0800	0390	3492	2775		0004274			14796								
	STD	0900	0378	3492	2777		0004201			14806								
141	OBS	T0980	0367	34918	2778					14816								
	STD	1000	0365	3492	2778		0004159			14818								
	STD	1100	0356	3492	2779		0004136			14831								
	STD	1200	0349	3493	2780		0004060			14845								
	STD	1300	0344	3494	2782		0004005			14860								
141	OBS	T1372	0342	34952	2783					14872								

REFERENCE		SHIP	LATITUDE	LONGITUDE	HAERDEN		STATION TIME				ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC		
CITY	NO.	CODE	1/18	1/18	SQ	NO.	10'	1"	MO	DAY	HR	1/18	CRUISE	STATION	NO.	NO.	DIR.	HGT.	SEA	TYPE	AMT	NUMBER
31	886	IN	5242 N	03525 W	184	25	04	27	128	1967	C11	012	3500	16	19	5	3		X5	5	8	0012
					WATER		WIND		BARO-				AIR TEMP. °C		VSL		SPECIAL					
					COLOR	TRANS.	DIR.	SPEED	DRY	WET	VS. CODE	OBL. DEPTHS										
					20	513	213	072	072	14												
MESSENGER	CARD	CARD	DEPTH (m)	1 °C	5 %	SGMA-T	SPECIFIC VOLUME				3.0 D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -S	pH			
TIME	NO.	TYPE					ANOMALY- σ_t	10°				VELOCITY		pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l				
		STD	0000	0658	3485	2739	0007010	0000	14772													
128	OBS	0000	0658	34859	2739				14772													
	STD	0010	0656	3487	2740	0006935	0007		14773													
128	OBS	0011	0656	34869	2740				14773													
	STD	0020	0654	3486	2739	0006987	0014		14774													
	STD	0030	0653	3486	2739	0006980	0021		14775													
128	OBS	0033	0652	34858	2739				14775													
	STD	0050	0651	3487	2740	0006918	0035		14778													
128	OBS	0054	0651	34872	2741				14778													
	STD	0075	0614	3486	2744	0006574	0052		14767													
128	OBS	0080	0609	34854	2745				14766													
	STD	0100	0610	3491	2749	0006172	0068		14770													
128	OBS	0106	0611	34918	2749				14772													
	STD	0125	0614	3493	2750	0006110	0083		14776													
	STD	0150	0618	3495	2751	0006047	0098		14782													
128	OBS	0160	0619	34954	2751				14784													
	STD	0200	0623	3497	2752	0006033	0128		14792													
128	OBS	0213	0624	34971	2752				14795													
	STD	0250	0606	3497	2754	0005890	0158		14794													
	STD	0300	0581	3497	2757	0005643	0187		14792													
	STD	0400	0528	3496	2763	0005190	0241		14787													
128	OBS	T0424	0515	34956	2764				14786													
	STD	0500	0469	3494	2768	0004747	0291		14779													
128	OBS	0529	0454	34932	2770				14778													
	STD	0600	0423	3492	2772	0004435	0337		14776													
128	OBS	T0634	0411	34920	2773				14777													
	STD	0700	0398	3492	2775	0004274	0380		14782													
	STD	0800	0381	3492	2776	0004170	0423		14792													
128	OBS	0843	0375	34918	2777				14796													
	STD	0900	0370	3491	2777	0004205	0464		14804													
	STD	1000	0361	3491	2778	0004186	0506		14817													
128	OBS	T1043	0358	34907	2778				14823													
	STD	1100	0354	3491	2778	0004186	0548		14830													
	STD	1200	0349	3491	2779	0004207	0590		14845													
	STD	1300	0345	3491	2779	0004238	0632		14860													
	STD	1400	0342	3492	2780	0004206	0675		14876													
	STD	1500	0341	3493	2781	0004198	0717		14892													
128	OBS	T1568	0341	34943	2782				14904													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	HAZEN SQUARE		STATION TIME				YEAR	ORIGINATOR		DEPTH TO BOTTOM	MAL. DEPTH OF FATHOMS	WAVE OBSERVATIONS				WATER CODE	CLOUD CODES	MOON CODE	STATION NUMBER		
CTD CODE	NO. NO.		1/18	1/18	18'	1'	MO	DAY	HR	MIN	SEC				DB	HB	WB	SEA		FTN	SKT				
31	886	IM	5240 N	03522 W	184	25	04	29	121	1967	C11	013	3475	31	16	2	6		X4	5	8		0013		
					WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		VLS CODE		SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. IN	DBL	SPEED OR FORCE			DRY BULB	WET BULB													
								32	507	379	094	089	6	18											
MESSAGE TIME HR 1/18	CST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-26°		Σ Δ D DTH. M. ± 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -M pg - ml/l	NO ₃ -M pg - ml/l	SiO ₂ -P pg - ml/l	pH								
		STD	0000	0696	3482	2730	0007794		0000	14787															
	121	OBS	0000	0696	34820	2730				14787															
		STD	0010	0681	3482	2732	0007643		0008	14782															
	121	OBS	0010	0681	34816	2732				14782															
		STD	0020	0681	3482	2732	0007651		0015	14784															
		STD	0030	0677	3482	2733	0007600		0023	14784															
	121	OBS	0032	0675	34819	2733				14784															
		STD	0050	0651	3483	2737	0007213		0038	14777															
	121	OBS	0053	0646	34833	2738				14776															
		STD	0075	0600	3483	2744	0006580		0055	14761															
	121	OBS	0079	0597	34834	2745				14760															
		STD	0100	0621	3491	2748	0006310		0071	14775															
	121	OBS	0105	0625	34925	2748				14777															
		STD	0125	0624	3493	2749	0006236		0087	14780															
		STD	0150	0621	3493	2749	0006235		0102	14783															
	121	OBS	0159	0620	34932	2749				14784															
		STD	0200	0614	3494	2751	0006144		0133	14789															
	121	OBS	T0214	0611	34945	2752				14790															
		STD	0250	0590	3495	2755	0005836		0163	14787															
		STD	0300	0562	3495	2758	0005554		0192	14781															
	121	OBS	0400	0514	3495	2764	0005094		0245	14784															
		STD	T0437	0499	34951	2766				14781															
	121	OBS	0500	0477	3495	2769	0004738		0294	14783															
		STD	0543	0463	34956	2770				14784															
	121	OBS	0600	0445	3495	2772	0004498		0340	14786															
		STD	T0650	0430	34945	2773				14788															
		STD	0700	0415	3494	2774	0004322		0384	14790															
	121	OBS	0800	0391	3492	2775	0004286		0428	14796															
		STD	0858	0380	34917	2776				14801															
		STD	0900	0376	3492	2777	0004216		0470	14806															
	121	OBS	1000	0368	3492	2778	0004202		0512	14820															
		STD	T1042	0363	34920	2778				14828															
		STD	1100	0362	3492	2778	0004193		0554	14834															
		STD	1200	0360	3493	2779	0004215		0596	14850															
		STD	1300	0357	3493	2780	0004217		0638	14866															
		STD	1400	0352	3494	2781	0004199		0680	14880															
		STD	1500	0347	3494	2782	0004179		0722	14895															
	121	OBS	T1566	0342	34947	2782				14904															
		STD	1750	0326	3495	2784	0004062		0825	14929															
	145	OBS	T1777	0324	34948	2784				14932															
		STD	2000	0318	3496	2786	0004048		0927	14968															
	145	OBS	T2277	0312	34977	2788				15013															
		STD	2500	0309	3498	2788	0004148		1132	15050															
	145	OBS	T2761	0306	34975	2788				15093															
		STD	3000	0303	3498	2788	0004380		1345	15133															
	145	OBS	T3099	0302	34976	2789				15150															

TABLE I.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HARDEN SQUARE 16' 1"	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	MODE STATION NUMBER		
					MO	DAT	HR	1/10		CRUISE NO.	STATION NUMBER			DBL	HGT	PER	SEA					
31 886	IN	5229 N	03553 W	184	25	04	30	126	1967	C11	014	2926	15	06	1	5		X2	7	8		0014
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
				COLOR CODE	TRANSL (m)	DBL	DIR	SPED OR FORCE	DRY BULB	WET BULB	VIL CODE											
						09	508	440	072	061		14										
MESSAGE HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DTN. M. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	CO ₂					
		STD	0000	0669	3480	2733	0007569	0000	14776													
125		OBS	0000	0669	34803	2733			14776													
		STD	0010	0670	3481	2733	0007575	0008	14778													
125		OBS	0010	0670	34806	2733			14778													
		STD	0020	0668	3481	2733	0007567	0015	14779													
		STD	0030	0666	3481	2733	0007560	0023	14780													
125		OBS	0032	0666	34806	2733			14780													
		STD	0050	0647	3481	2736	0007326	0038	14775													
125		OBS	0050	0647	34808	2736			14775													
		STD	0075	0630	3483	2740	0006987	0055	14773													
125		OBS	0076	0629	34830	2740			14773													
		STD	0100	0630	3489	2745	0006573	0072	14778													
125		OBS	0100	0630	34890	2745			14778													
		STD	0125	0615	3492	2749	0006197	0088	14776													
		STD	0150	0604	3493	2752	0005990	0104	14776													
125		OBS	0150	0604	34934	2752			14776													
		STD	0200	0596	3493	2752	0005986	0134	14781													
125		OBS	T0201	0596	34931	2752			14781													
		STD	0250	0582	3494	2755	0005810	0163	14784													
		STD	0300	0567	3495	2758	0005617	0192	14786													
125		OBS	0396	0533	34962	2763			14788													
		STD	0400	0531	3496	2763	0005205	0246	14788													
125		OBS	0490	0495	34977	2768			14789													
		STD	0500	0491	3498	2769	0004742	0295	14789													
125		OBS	T0503	0461	34965	2771			14790													
		STD	0600	0455	3496	2772	0004542	0342	14790													
		STD	0700	0422	3494	2774	0004404	0387	14793													
125		OBS	0768	0406	34934	2775			14797													
		STD	0800	0402	3493	2775	0004341	0430	14801													
		STD	0900	0390	3493	2776	0004292	0474	14812													
125		OBS	T0959	0384	34926	2777			14820													
		STD	1000	0380	3493	2777	0004285	0516	14825													
		STD	1100	0371	3493	2778	0004257	0559	14838													
		STD	1200	0363	3493	2779	0004230	0602	14851													
		STD	1300	0357	3493	2780	0004224	0644	14866													
		STD	1400	0352	3493	2780	0004235	0686	14880													
125		OBS	T1489	0349	34935	2781			14894													

TABLE II.—Observed and interpolated oceanographic data from stations taken by USCGC CASTLE ROCK, at Ocean Station CHARLIE, 25 May—14 June 1967, prepared from NODC Listing No. 31-1081.

[illegible]

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAZEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH OF BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	TO MOON	HODC STATION NUMBER	
					10	11		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA					
311081	CK	5250 N	03538 W	184	25	05 26 130	1967	C12	002	2835	14	33	2	2		X1	8	4		0002
				WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS										
COLOR CODE		TRANSM. m		DIR.	SPEED OR FORCE	BARO- METER (mb)	OPF.	DIR.	TEMP.			WET BULB	VEL. CODE							
34		520			146	065	053	7												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME AND RALTY-2107	S.D. DPT. AL. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL L ₂ pg - dl/l	NO ₂ -N pg - dl/l	NO ₃ -N pg - dl/l	SiO ₄ -S pg - dl/l	pH	COND.			
		STD	0000	0747	3494	2733	0007586	0000	14808											
130		OBS	0000	0747	34940	2733			14808											
130		OBS	0009	0749	34944	2733			14810											
		STD	0010	0748	3494	2733	0007587	0008	14810											
		STD	0020	0742	3494	2733	0007537	0015	14809											
130		OBS	0029	0736	34940	2734			14809											
		STD	0030	0735	3494	2734	0007473	0023	14808											
130		OBS	0045	0727	34936	2735			14808											
		STD	0050	0724	3494	2736	0007387	0038	14807											
130		OBS	0068	0715	34934	2737			14807											
		STD	0075	0713	3494	2737	0007250	0056	14807											
130		OBS	0091	0704	34950	2739			14806											
		STD	0100	0691	3496	2742	0006846	0073	14803											
		STD	0125	0665	3498	2747	0006393	0090	14797											
130		OBS	0135	0658	34989	2749			14796											
		STD	0150	0658	3500	2750	0006191	0106	14799											
130		OBS	0181	0656	35019	2751			14803											
		STD	0200	0652	3502	2752	0006078	0136	14805											
		STD	0250	0635	3501	2753	0006005	0167	14806											
		STD	0300	0609	3499	2756	0005822	0196	14804											
130		OBS	T0358	0568	34982	2760			14797											
		STD	0400	0521	3496	2764	0005105	0251	14784											
130		OBS	0452	0475	34948	2768			14774											
		STD	0500	0450	3494	2771	0004524	0299	14771											
130		OBS	T0545	0430	34936	2772			14770											
		STD	0600	0413	3493	2774	0004275	0343	14772											
		STD	0700	0389	3492	2776	0004171	0385	14779											
130		OBS	0733	0383	34918	2776			14782											
		STD	0800	0375	3491	2776	0004176	0427	14789											
		STD	0900	0365	3491	2777	0004147	0469	14802											
130		OBS	0925	0363	34905	2777			14805											
		STD	1000	0361	3491	2778	0004185	0510	14817											
		STD	1100	0358	3492	2778	0004191	0552	14832											
		STD	1200	0355	3492	2779	0004194	0594	14848											
		STD	1300	0352	3493	2780	0004197	0636	14864											
		STD	1400	0350	3494	2781	0004191	0678	14879											
130		OBS	T1420	0349	34936	2781			14882											

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	E 10'S	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER		
					1°	1'	MO	DAY	HR/10		CRUISE NO.	STATION NUMBER							
311081	CK	5253 N	03547 W		184	25	05	27	167	1967	C12	003	3109	14	32	4	5	0003	
																		SPECIAL OBSERVATIONS	
WATER		WIND		BARO- METER		AIR TEMP. °C		VSL		NO. OBS. DEPTH									
COLOR CODE	TRAN- SL	DIR.	SPED OF FORCE	DB.	METER (mm)	DET BULB	WET BULB	VSL CODE	NO. OBS. DEPTH										
					30	526	14		060	042	7	14							
MARSSEN TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	
		STD	0000	0714	3483	2729	0007951	0000	14794										
	167	OBS	0000	0714	34831	2729			14794										
		STD	0010	0716	3483	2728	0008024	0008	14796										
	167	OBS	0010	0716	34827	2728			14796										
		STD	0020	0715	3483	2728	0008042	0016	14797										
		STD	0030	0714	3482	2728	0008067	0024	14799										
	167	OBS	0030	0714	34822	2728			14799										
	167	OBS	0047	0711	34840	2730			14800										
		STD	0050	0712	3486	2731	0007790	0040	14802										
	167	OBS	0072	0714	34936	2737			14807										
		STD	0075	0714	3494	2737	0007263	0059	14808										
	167	OBS	0095	0708	34958	2740			14809										
		STD	0100	0703	3496	2740	0007007	0077	14808										
		STD	0125	0681	3497	2744	0006679	0094	14803										
	167	OBS	0143	0668	34977	2747			14801										
		STD	0150	0666	3498	2747	0006445	0110	14802										
	167	OBS	T0194	0648	35008	2752			14802										
		STD	0200	0644	3501	2752	0006040	0141	14801										
		STD	0250	0607	3499	2756	0005747	0171	14795										
		STD	0300	0573	3498	2759	0005506	0199	14789										
	167	OBS	T0375	0523	34952	2763			14781										
		STD	0400	0504	3495	2765	0004974	0251	14777										
	167	OBS	0469	0465	34938	2769			14772										
		STD	0500	0461	3494	2769	0004653	0299	14776										
	167	OBS	T0568	0449	34952	2772			14782										
		STD	0600	0438	3495	2773	0004416	0345	14783										
		STD	0700	0408	3494	2775	0004241	0388	14787										
	167	OBS	0755	0396	34930	2776			14791										
		STD	0800	0390	3493	2776	0004215	0430	14796										
		STD	0900	0379	3492	2777	0004214	0472	14808										
	167	OBS	T0945	0374	34921	2777			14813										
		STD	1000	0369	3492	2778	0004176	0514	14820										
		STD	1100	0360	3493	2779	0004110	0556	14833										
		STD	1200	0353	3494	2780	0004064	0597	14847										
		STD	1300	0348	3494	2781	0004047	0637	14862										
		STD	1400	0344	3495	2782	0004033	0678	14877										
	167	OBS	T1448	0343	34950	2783			14885										

REFERENCE	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	E 10'S	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER		
					1°	1'	MO	DAY	HR/10		CRUISE NO.	STATION NUMBER							
311081	CK	5253 N	03535 W		184	25	05	28	217	1967	C12	004	3146	16	33	3	4	0004	
																		SPECIAL OBSERVATIONS	
WATER		WIND		BARO- METER		AIR TEMP. °C		VSL		NO. OBS. DEPTH									
COLOR CODE	TRAN- SL	DIR.	SPED OF FORCE	DB.	METER (mm)	DET BULB	WET BULB	VSL CODE	NO. OBS. DEPTH										
					33	513	129		083	071	7	14							
MARSSEN TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	SIGMA-T	
		STD	0000	0734	3493	2734	0007490	0000	14803										
	217	OBS	0000	0734	34929	2734			14803										
		STD	0010	0736	3493	2733	0007557	0008	14805										
	217	OBS	0010	0736	34926	2733			14805										
		STD	0020	0736	3492	2733	0007589	0015	14807										
		STD	0030	0734	3492	2733	0007586	0023	14808										
	217	OBS	0033	0733	34922	2733			14808										
		STD	0050	0725	3490	2733	0007646	0038	14807										
	217	OBS	0053	0724	34900	2733			14807										
		STD	0075	0712	3492	2736	0007385	0057	14807										
	217	OBS	0081	0709	34933	2737			14806										
		STD	0100	0698	3496	2741	0006940	0075	14806										
	217	OBS	0106	0694	34973	2743			14805										
		STD	0125	0678	3499	2746	0006490	0091	14802										
		STD	0150	0661	3501	2750	0006156	0107	14800										
	217	OBS	0159	0657	35012	2751			14800										
		STD	0200	0651	3502	2752	0006027	0138	14804										
	217	OBS	T0214	0648	35025	2753			14806										
		STD	0250	0628	3501	2755	0005876	0167	14803										
		STD	0300	0599	3499	2757	0005723	0196	14800										
		STD	0400	0538	3496	2762	0005313	0252	14791										
	217	OBS	T0424	0522	34959	2764			14789										
		STD	0500	0465	3494	2769	0004700	0302	14777										
	217	OBS	0531	0448	34939	2771			14775										
		STD	0600	0425	3493	2773	0004413	0347	14777										
	217	OBS	T0634	0415	34926	2773			14779										
		STD	0700	0402	3493	2775	0004283	0391	14784										
		STD	0800	0386	3492	2776	0004206	0433	14794										
	217	OBS	0842	0380	34922	2777			14798										
		STD	0900	0374	3492	2777	0004178	0475	14806										
		STD	1000	0364	3492	2778	0004147	0517	14818										
	217	OBS	T1048	0360	34919	2778			14824										
		STD	1100	0356	3492	2779	0004136	0558	14831										
		STD	1200	0349	3492	2780	0004134	0599	14845										
		STD	1300	0344	3493	2781	0004079	0641	14860										
		STD	1400	0341	3494	2782	0004047	0681	14876										
		STD	1500	0339	3495	2783	0004026	0722	14892										
	217	OBS	1567	0338	34955	2783			14903										

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	HAISON SQUARE	STATION TIME (GMT)	YEAR	ORIGINATORS		DEPTH BOTTOM	MAX. DEPTH FATHOMS	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODE	TOO- CLOUD CODE	MOOD STATION NUMBER		
							CAUSE	STATION NUMBER			DIR.	PERIOD	SEA							
CTW CODE	ID. NO.			1°	1°	NO.	DAY	REL. 1/19	C12	005	3585	15	33	1	3	X1	7	7	0005	
311081	CK	52416N	035150W	184	25	05	29	136	1967											
				WATER		WIND		AIR TEMP. °C		NO. OF OBS.		SPECIAL OBSERVATIONS								
				COLOR CODE	TEMP. (m)	DIR.	SPED. OF FORCE	DIR. SULE	WET SULE	VIS. CODE										
				33	512	139		082	072	7	12									
REFERENCE	SHIP CODE	CARD TYPE	DEPTH (m)	T °C	S ‰	DOGA-T	SPECIFIC VOLUME AND SALTY-100°	Δ D DYN. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH				
136		STD	0000	0762	3491	2728	0008016	0000	14814											
		OBS	0000	0762	34910	2728			14814											
		STD	0010	0759	3490	2728	0008067	0008	14814											
136		OBS	0010	0759	34900	2728			14814											
		STD	0020	0758	3490	2728	0008063	0016	14815											
		STD	0030	0754	3490	2729	0008017	0024	14815											
136		OBS	0033	0752	34902	2729			14815											
		STD	0050	0737	3494	2734	0007535	0040	14812											
		STD	0075	0716	3495	2738	0007216	0058	14808											
136		OBS	0081	0712	34955	2739			14808											
		STD	0100	0706	3497	2740	0007003	0076	14809											
		OBS	0106	0703	34970	2741			14809											
136		STD	0125	0683	3498	2745	0006631	0093	14804											
		STD	0150	0665	3499	2748	0006357	0109	14801											
		OBS	0159	0660	34994	2749			14801											
136		STD	0200	0656	3500	2750	0006272	0141	14806											
		OBS	T0210	0653	34997	2750			14807											
		STD	0250	0629	3500	2753	0005986	0171	14804											
136		STD	0300	0598	3500	2757	0005666	0201	14799											
		STD	0400	0534	3499	2765	0005011	0254	14790											
		OBS	0423	0519	34994	2767			14788											
136		STD	0500	0463	3499	2773	0004305	0300	14777											
		OBS	0527	0450	34981	2774			14776											
		STD	0600	0435	3496	2774	0004306	0344	14782											
136		OBS	T0628	0429	34957	2774			14784											
		STD	0700	0409	3494	2775	0004223	0386	14787											
		STD	0800	0387	3493	2776	0004195	0428	14794											
136		OBS	0834	0381	34920	2776			14798											
		STD	0900	0375	3492	2777	0004190	0470	14806											
		STD	1000	0367	3492	2778	0004182	0512	14819											
136		OBS	T1040	0364	34919	2778			14825											
		STD	1100	0360	3492	2779	0004184	0554	14833											
		STD	1200	0354	3492	2779	0004194	0596	14847											
136		STD	1300	0350	3493	2780	0004153	0638	14863											
		STD	1400	0347	3494	2781	0004122	0679	14878											
		OBS	T1498	0345	34948	2782			14894											

REFERENCE		SHIP CODE	LATITUDE ° '"/16	LONGITUDE ° '"/16	HARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S CRUISE NO. STATION NUMBER		DEPTH TO BOTTOM	MAX DEPTH OF TRAWL	WAVE OBSERVATIONS DIR. PER. PER. SEA			WEA- THER CODE	CLOUD CODES	MOOD STATION NUMBER		
CTM CODE	NO. NO.				12'	1'	MO	DAT	HR	1/16					DIR.	PER.	PER.	SEA	X1	8	4	
311081	CK	5243 N	03534 W	184	25	05	30	139	1967	C12	006	3677	16	33	2			X1	8	4		0006
						WATER		WIND		BARO- METER		AIR TEMP. °C		WIL CODE		NO. OF OBS. DEPTH		SPECIAL OBSERVATIONS				
						COLOR CODE		TRANS. IN		DIR.		SPEED OF TOW		DET RULE		WET BUL						
								07		S18		068		083		082		6		14		
MESSAGE TIME HR. 1/16	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _T		Σ Δ D DTH. M. S 1/16	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH				
		STD	0000	0778	3482	2719		0008909		0000	14819											
139		OBS	0000	0778	34820	2719					14819											
		STD	0010	0780	3482	2718		0003945		0009	14821											
139		OBS	0011	0780	34821	2718					14821											
		STD	0020	0779	3482	2719		0008944		0018	14822											
		STD	0030	0778	3482	2719		0008940		0027	14823											
139		OBS	0034	0777	34824	2719					14824											
		STD	0050	0774	3483	2720		0008875		0045	14825											
139		OBS	0053	0772	34830	2720					14825											
		STD	0075	0745	3485	2725		0008387		0066	14818											
139		OBS	0079	0736	34849	2727					14816											
		STD	0100	0663	3486	2738		0007221		0086	14791											
139		OBS	0105	0649	34861	2740					14786											
		STD	0125	0619	3487	2745		0006620		0103	14777											
		STD	0150	0593	3488	2749		0006256		0119	14771											
139		OBS	0158	0587	34885	2750					14770											
		STD	0200	0586	3491	2752		0006015		0150	14777											
139		OBS	T0212	0585	34916	2753					14779											
		STD	0250	0560	3492	2756		0005687		0179	14775											
		STD	0300	0531	3493	2760		0005362		0207	14771											
		STD	0400	0484	3494	2766		0004848		0258	14769											
139		OBS	0418	0477	34937	2767					14769											
		STD	0500	0453	3494	2770		0004559		0305	14772											
139		OBS	0521	0447	34944	2771					14773											
		STD	0600	0424	3494	2773		0004327		0349	14777											
139		OBS	0624	0418	34939	2774					14778											
		STD	0700	0403	3493	2775		0004257		0392	14785											
		STD	0800	0387	3493	2777		0004166		0434	14795											
139		OBS	0834	0382	34927	2777					14798											
		STD	0900	0375	3493	2777		0004145		0476	14806											
		STD	1000	0365	3492	2778		0004137		0517	14819											
139		OBS	T1045	0361	34922	2779					14824											
		STD	1100	0359	3493	2779		0004131		0559	14833											
		STD	1200	0356	3493	2780		0004132		0600	14848											
		STD	1300	0353	3494	2781		0004124		0641	14864											
		STD	1400	0350	3495	2781		0004122		0682	14880											
		STD	1500	0347	3495	2782		0004111		0724	14895											
139		OBS	T1595	0344	34958	2783					14910											

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	E W	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
								CRUISE NO.	STATION NUMBER			OR	HCE	MS				SEA
311081	CK	5251 N	03525 W		184	25 05 31	1967	C12	007	2834	15	05	2	2		X1	4 3	0007
				E W	WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS DB	DIR.	SPED OR FORCE	BARO- METER (mb)	DEP RULE								WET RULE
							01	S12	112	091	082	7	14					
MISSING TIME HE 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-30T		Σ Δ D DYN. M. S 10°	SOUND VELOCITY	O ₂ (m/l)	PO ₂ -P pg - m/l	TOTAL-P pg - m/l	NO ₃ -N pg - m/l	NO ₃ -N pg - m/l	SiO ₄ -S pg - m/l	PH	CTM CODE
		STD	0000	0798	3497	2727	0008092		0000	14828								
171		OBS	0000	0798	34968	2727				14828								
		STD	0010	0778	3496	2730	0007864		0008	14822								
171		OBS	0010	0778	34963	2730				14822								
		STD	0020	0762	3497	2733	0007605		0016	14818								
		STD	0030	0752	3497	2734	0007484		0023	14815								
171		OBS	0031	0751	34975	2735				14815								
171		OBS	0049	0746	34978	2736				14816								
		STD	0050	0745	3498	2736	0007348		0038	14816								
171		OBS	0074	0720	34995	2741				14810								
		STD	0075	0720	3500	2741	0006898		0056	14811								
171		OBS	0098	0706	35002	2743				14809								
		STD	0100	0703	3500	2744	0006710		0073	14808								
		STD	0125	0670	3500	2748	0006310		0089	14799								
171		OBS	0148	0650	34996	2750				14795								
		STD	0150	0650	3500	2751	0006086		0105	14795								
		STD	0200	0640	3500	2752	0006010		0135	14800								
171		OBS	T0200	0640	35003	2752				14800								
		STD	0250	0613	3500	2756	0005757		0164	14797								
		STD	0300	0585	3499	2758	0005545		0193	14794								
171		OBS	T0394	0531	34970	2764				14787								
		STD	0400	0527	3497	2764	0005104		0246	14787								
171		OBS	0496	0471	34939	2768				14779								
		STD	0500	0469	3494	2768	0004755		0295	14779								
171		OBS	0595	0434	34933	2772				14780								
		STD	0600	0433	3493	2772	0004506		0341	14781								
		STD	0700	0408	3493	2774	0004315		0386	14787								
171		OBS	0794	0389	34926	2776				14794								
		STD	0800	0388	3493	2776	0004207		0428	14795								
		STD	0900	0373	3492	2777	0004174		0470	14805								
171		OBS	T0990	0363	34913	2778				14816								
		STD	1000	0363	3491	2778	0004176		0512	14817								
		STD	1100	0360	3492	2779	0004177		0554	14833								
		STD	1200	0358	3493	2779	0004177		0595	14849								
		STD	1300	0355	3494	2780	0004176		0637	14865								
		STD	1400	0352	3494	2781	0004173		0679	14880								
171		OBS	T1490	0350	34948	2782				14895								

REFERENCE CTM CODE	ID. NO.	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	E W	MARSDEN SQUARE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
							CRUISE NO.	STATION NUMBER		OR	HCE			MS					
311081		CK	52465N	03538 W		184	25 06 01	134	1967	C12	008	3036	16	06	1		X2	7 8	0008
				E W	WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS DB	DIR.	SPED OR FORCE	BARO- METER (mm)	DRY RULE								WET RULE	
							08	S12	064	072	071	6	14						
MISSING TIME HE 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-30T		Σ Δ D DYN. M. S 10°	SOUND VELOCITY	O ₂ (m/l)	PO ₂ -P pg - m/l	TOTAL-P pg - m/l	NO ₃ -N pg - m/l	NO ₃ -N pg - m/l	SiO ₄ -S pg - m/l	PH	CTM CODE	
		STD	0000	0811	3482	2713	0009400		0000	14831									
134		OBS	0000	0811	34817	2713				14831									
		STD	0010	0812	3482	2713	0009410		0009	14833									
134		OBS	0010	0812	34820	2713				14833									
		STD	0020	0788	3483	2718	0009011		0019	14826									
		STD	0030	0764	3485	2723	0008543		0027	14818									
134		OBS	0033	0757	34853	2724				14816									
		STD	0050	0716	3488	2732	0007695		0044	14803									
134		OBS	0051	0714	34884	2733				14803									
		STD	0075	0674	3488	2738	0007162		0062	14791									
134		OBS	0077	0670	34882	2739				14790									
		STD	0100	0616	3488	2746	0006501		0079	14772									
134		OBS	0102	0613	34875	2746				14771									
		STD	0125	0608	3490	2748	0006262		0095	14773									
		STD	0150	0603	3492	2751	0006085		0111	14776									
134		OBS	0151	0603	34925	2751				14776									
		STD	0200	0604	3493	2751	0006090		0141	14784									
134		OBS	T0206	0604	34935	2752				14785									
		STD	0250	0566	3493	2756	0005686		0171	14777									
		STD	0300	0530	3492	2760	0005387		0198	14771									
134		OBS	0390	0481	34919	2765				14766									
		STD	0400	0478	3492	2766	0004892		0250	14766									
		STD	0500	0450	3493	2770	0004602		0297	14771									
134		OBS	0501	0450	34933	2770				14771									
		STD	0600	0426	3493	2772	0004420		0342	14778									
134		OBS	0601	0426	34931	2773				14778									
		STD	0700	0405	3493	2774	0004310		0386	14785									
		STD	0800	0387	3492	2776	0004232		0429	14794									
134		OBS	0807	0386	34921	2776				14795									
		STD	0900	0375	3491	2776	0004241		0471	14806									
		STD	1000	0365	3491	2777	0004270		0513	14818									
134		OBS	T1013	0364	34904	2777				14820									
		STD	1100	0357	3491	2778	0004229		0556	14832									
		STD	1200	0350	3492	2779	0004182		0598	14846									
		STD	1300	0345	3492	2780	0004150		0640	14860									
		STD	1400	0341	3493	2781	0004135		0681	14876									
		STD	1500	0339	3493	2782	0004143		0723	14892									
134		OBS	T1551	0339	34937	2782				14900									

TABLE II.—Continued

REFERENCE SHIP CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	MODC STATION NUMBER		
						10'	1"		CRUISE NO.	STATION NUMBER			DB.	HGT	PER					
311081	CK		5248 N	03536 W	184	25	06	02	136	1967	C12	009	2414	15	24	3	3	X1	216	0009
MESSAGE TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	S C		
			STD	0000	0786	3493	2726	0008211	0000	14823										
	136		OBS	0000	0786	34929	2726			14823										
			STD	0010	0773	3493	2728	0008054	0008	14820										
	136		OBS	0010	0773	34928	2728			14820										
			STD	0020	0758	3495	2732	0007698	0016	14816										
			STD	0030	0747	3496	2734	0007489	0024	14813										
	136		OBS	0032	0746	34966	2735			14813										
			STD	0050	0744	3498	2736	0007363	0038	14816										
	136		OBS	0052	0743	34977	2736			14816										
			STD	0075	0716	3498	2740	0006993	0056	14809										
	136		OBS	0078	0711	34984	2741			14807										
			STD	0100	0667	3497	2746	0006432	0073	14794										
	136		OBS	0103	0663	34971	2747			14793										
			STD	0125	0659	3499	2749	0006237	0089	14795										
			STD	0150	0654	3500	2750	0006139	0104	14797										
	136		OBS	0155	0653	35005	2751			14798										
			STD	0200	0656	3504	2753	0005948	0135	14807										
	136		OBS	T0209	0657	35041	2753			14808										
			STD	0250	0640	3503	2754	0005884	0164	14808										
			STD	0300	0615	3501	2756	0005781	0193	14806										
			STD	0400	0556	3498	2761	0005389	0249	14799										
	136		OBS	T0407	0551	34977	2762			14798										
			STD	0500	0480	3495	2768	0004833	0300	14784										
	136		OBS	0508	0476	34943	2768			14783										
			STD	0600	0445	3494	2771	0004565	0347	14786										
	136		OBS	T0608	0442	34941	2772			14786										
			STD	0700	0412	3493	2774	0004354	0392	14788										
			STD	0800	0388	3492	2776	0004244	0435	14795										
	136		OBS	0808	0386	34920	2776			14795										
			STD	0900	0376	3491	2776	0004275	0478	14806										
			STD	1000	0367	3491	2777	0004256	0520	14819										
	136		OBS	T1006	0366	34905	2777			14820										
			STD	1100	0359	3491	2778	0004231	0563	14833										
			STD	1200	0353	3492	2779	0004182	0605	14847										
			STD	1300	0349	3493	2780	0004162	0646	14862										
			STD	1400	0347	3493	2781	0004166	0688	14878										
			STD	1500	0347	3494	2782	0004186	0730	14895										
	136		OBS	1501	0347	34942	2782			14895										

REFERENCE SHIP CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	MODC STATION NUMBER		
						10'	1"		CRUISE NO.	STATION NUMBER			DB.	HGT	PER					
311081	CK		52465 N	03538 W	184	25	06	03	132	1967	C12	010	2926	16	26	1	2	X1	816	0010
MESSAGE TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	S C		
			STD	0000	0791	3492	2724	0008364	0000	14825										
	132		OBS	0000	0791	34918	2724			14825										
			STD	0010	0781	3492	2726	0008440	0008	14823										
	132		OBS	0011	0780	34918	2726			14822										
			STD	0020	0762	3493	2729	0007933	0016	14817										
			STD	0030	0749	3494	2732	0007703	0024	14814										
	132		OBS	0034	0745	34938	2733			14813										
			STD	0050	0743	3494	2733	0007632	0040	14815										
	132		OBS	0054	0741	34938	2733			14815										
			STD	0075	0717	3493	2736	0007356	0058	14809										
	132		OBS	0081	0709	34932	2737			14806										
			STD	0100	0680	3495	2743	0006775	0076	14798										
	132		OBS	0107	0672	34962	2745			14797										
			STD	0125	0665	3498	2747	0006393	0092	14797										
			STD	0150	0656	3499	2749	0006239	0108	14798										
	132		OBS	0160	0654	34999	2750			14799										
			STD	0200	0651	3501	2751	0006102	0139	14804										
	132		OBS	T0215	0648	35015	2752			14806										
			STD	0250	0612	3500	2756	0005744	0169	14797										
			STD	0300	0568	3497	2759	0005480	0197	14787										
			STD	0400	0506	3494	2764	0005072	0249	14778										
	132		OBS	T0426	0496	34937	2765			14778										
			STD	0500	0488	3494	2766	0005011	0300	14787										
	132		OBS	0532	0478	34934	2767			14788										
			STD	0600	0433	3493	2772	0004506	0347	14781										
	132		OBS	T0640	0412	34921	2773			14778										
			STD	0700	0398	3491	2774	0004348	0392	14782										
			STD	0800	0379	3490	2775	0004296	0435	14791										
	132		OBS	0851	0371	34895	2775			14796										
			STD	0900	0366	3490	2776	0004270	0478	14802										
			STD	1000	0357	3489	2777	0004257	0520	14815										
	132		OBS	T1066	0352	34893	2777			14824										
			STD	1100	0351	3490	2778	0004241	0563	14829										
			STD	1200	0349	3491	2779	0004185	0605	14845										
			STD	1300	0347	3493	2780	0004134	0647	14861										
			STD	1400	0345	3494	2782	0004076	0688	14877										
			STD	1500	0342	3496	2783	0004019	0728	14893										
	132		OBS	T1597	0340	34971	2785			14909										

TABLE II.—Continued

REFERENCE CRUISE NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	TO NO.	MODC STATION NUMBER																																																									
					10°	1'	MO DAT HR LT/10		CRUISE NO.	STATION NUMBER																																																															
311081	CK	5235 N	03530 W	184	25	06	04 173	1967	C12	011	3475	10	24	3	5	X2	7 8	0011																																																							
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td colspan="2">SAR-</td><td colspan="2">AB TEMP. °C</td><td colspan="2">VSL</td><td colspan="2">NO.</td><td colspan="2">SPECIAL</td></tr><tr><td>COLOR</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td></tr><tr><td>CODE</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td><td>DRIFT</td></tr><tr><td></td><td>27</td><td>530</td><td>163</td><td>092</td><td>088</td><td>6</td><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																		WATER		WIND		SAR-		AB TEMP. °C		VSL		NO.		SPECIAL		COLOR	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	CODE	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT		27	530	163	092	088	6	13						
WATER		WIND		SAR-		AB TEMP. °C		VSL		NO.		SPECIAL																																																													
COLOR	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT																																																												
CODE	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT	DRIFT																																																												
	27	530	163	092	088	6	13																																																																		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D DYN. M 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	1 C																																																								
		STD	0000	0784	3497	2730	0007871	0000	14823																																																																
173		OBS	0000	0784	34971	2730			14823																																																																
		STD	0010	0786	3497	2729	0007910	0008	14825																																																																
173		OBS	0010	0786	34972	2729			14825																																																																
		STD	0020	0778	3497	2730	0007830	0016	14824																																																																
		STD	0030	0765	3497	2732	0007687	0024	14820																																																																
173		OBS	0030	0765	34967	2732			14820																																																																
173		OBS	0047	0734	34998	2739			14812																																																																
		STD	0050	0731	3500	2740	0007006	0038	14811																																																																
173		OBS	0072	0712	35008	2743			14807																																																																
		STD	0075	0709	3501	2743	0006690	0055	14806																																																																
173		OBS	0095	0692	35008	2746			14803																																																																
		STD	0100	0686	3501	2747	0006422	0072	14802																																																																
		STD	0125	0663	3501	2750	0006173	0087	14797																																																																
173		OBS	0141	0654	35005	2751			14796																																																																
		STD	0150	0654	3501	2751	0006067	0103	14797																																																																
173		OBS	T0190	0655	35043	2754			14805																																																																
		STD	0200	0652	3504	2754	0005892	0133	14805																																																																
		STD	0250	0633	3504	2756	0005718	0162	14806																																																																
		STD	0300	0609	3503	2759	0005554	0190	14804																																																																
173		OBS	T0381	0557	35014	2764			14796																																																																
		STD	0400	0537	3500	2765	0005003	0243	14791																																																																
173		OBS	0478	0476	34972	2770			14779																																																																
		STD	0500	0468	3497	2771	0004512	0290	14779																																																																
173		OBS	0577	0443	34962	2773			14781																																																																
		STD	0600	0438	3496	2774	0004341	0335	14783																																																																
		STD	0700	0416	3495	2775	0004260	0378	14790																																																																
173		OBS	0781	0401	34945	2776			14797																																																																
		STD	0800	0398	3494	2776	0004220	0420	14799																																																																
		STD	0900	0383	3493	2777	0004209	0462	14809																																																																
173		OBS	T0995	0372	34926	2778			14821																																																																

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	MARS DEN SQUARE	STATION TIME			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER			
CRUISE NO.	ID. NO.					10°	1'	MO		DAT	HR		LT/10	CRUISE NO.	STATION NUMBER				DR	PER	SEA
311081		CK	5249 N	03533 W	184	25	06	05	136	1967	C12	012	2926	14	23	4	2	X1	4	3	0012
WATER																					
WIND																					
BARO- METER																					
AIR TEMP. °C																					
VS																					
NO. OF DEPTHS																					
SPECIAL OBSERVATIONS																					
COLOR CODE																					
DRIFT																					
DRIFT FORCE																					
									23	524	152	107	099	6	14						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D DYN. M 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	1 C				
		STD	0000	0800	3489	2721	0008685	0000	14828												
		OBS	0000	0800	34892	2721			14828												
		STD	0010	0801	3489	2720	0008747	0009	14830												
136		OBS	0010	0801	34888	2720			14830												
		STD	0020	0776	3494	2728	0008024	0017	14823												
		STD	0030	0757	3497	2733	0007553	0025	14817												
136		OBS	0032	0754	34974	2734			14817												
		STD	0050	0736	3500	2738	0007112	0040	14813												
136		OBS	0050	0736	34995	2738			14813												
		STD	0075	0723	3500	2741	0006932	0057	14812												
136		OBS	0075	0723	35001	2741			14812												
		STD	0100	0689	3501	2746	0006455	0074	14803												
136		OBS	0100	0689	35009	2746			14803												
		STD	0125	0659	3501	2750	0006121	0090	14795												
136		OBS	0149	0643	35002	2752			14793												
		STD	0150	0643	3500	2752	0005976	0105	14793												
		STD	0200	0652	3504	2754	0005862	0134	14805												
136		OBS	T0200	0652	35044	2754			14805												
		STD	0250	0625	3502	2756	0005763	0163	14802												
		STD	0300	0595	3501	2759	0005523	0192	14798												
136		OBS	0391	0532	34971	2764			14787												
		STD	0400	0522	3497	2765	0005042	0244	14785												
136		OBS	0485	0456	34935	2770			14771												
		STD	0500	0452	3494	2770	0004548	0292	14772												
136		OBS	0578	0432	34942	2773			14777												
		STD	0600	0425	3494	2773	0004339	0337	14777												
		STD	0700	0400	3493	2775	0004223	0380	14783												
136		OBS	0767	0387	34923	2776			14789												
		STD	0800	0383	3492	2776	0004171	0422	14793												
		STD	0900	0372	3492	2778	0004125	0463	14805												
136		OBS	T0959	0367	34925	2778			14813												
		STD	1000	0364	3493	2779	0004073	0504	14818												
		STD	1100	0356	3493	2780	0004062	0545	14832												
		STD	1200	0351	3494	2781	0004010	0585	14846												
		STD	1300	0347	3494	2781	0004042	0625	14861												
		STD	1400	0345	3495	2782	0004023	0666	14878												
136		OBS	T1437	0345	34956	2783			14884												

TABLE II.—Continued

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E CODE	WARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAIL DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
					1°	1'	MO	DAY	HE/10		CRUISE NO.	STATION NUMBER			DR	HC	PS	EA						
311081	CK	5238 N	03514 W		184	25	06	06	133	1967	C12	013	3091	16	25	3	3		X0	00	0013			
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. IN	DIR. OF FORCE	SPED OF FORCE	BARO-METER (mm)	DRY	WET	NO. OBS. DEPTHS												
								25	513	160	107	095	6	14										
MESSAGE TIME HH 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DTN. M. Σ 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	PH	STATION NUMBER							
		STD	0000	0866	3481	2704	0010242	0000	14852															
133		OBS	0000	0866	34812	2704			14852															
		STD	0010	0846	3481	2708	0009958	0010	14846															
133		OBS	0011	0844	34813	2708			14845															
		STD	0020	0835	3481	2709	0009837	0020	14843															
		STD	0030	0813	3481	2713	0009536	0030	14837															
133		OBS	0034	0800	34808	2714			14832															
		STD	0050	0720	3481	2726	0008308	0048	14804															
133		OBS	0054	0703	34804	2728			14798															
		STD	0075	0640	3484	2740	0007036	0067	14777															
133		OBS	0081	0626	34849	2742			14773															
		STD	0100	0596	3485	2746	0006461	0084	14764															
133		OBS	0108	0586	34848	2747			14761															
		STD	0125	0579	3486	2749	0006236	0099	14761															
		STD	0150	0568	3487	2751	0006061	0115	14761															
133		OBS	0162	0563	34870	2752			14761															
		STD	0200	0545	3488	2754	0005768	0144	14760															
133		OBS	T0218	0536	34879	2756			14759															
		STD	0250	0519	3489	2759	0005417	0172	14758															
		STD	0300	0495	3490	2762	0005121	0199	14756															
		STD	0400	0456	3492	2768	0004635	0247	14757															
133		OBS	T0435	0445	34922	2770			14758															
		STD	0500	0430	3492	2771	0004421	0293	14763															
133		OBS	0553	0418	34924	2773			14766															
		STD	0600	0407	3492	2774	0004259	0336	14770															
133		OBS	T0659	0396	34922	2775			14775															
		STD	0700	0392	3492	2775	0004190	0378	14780															
		STD	0800	0382	3492	2777	0004160	0420	14792															
133		OBS	0871	0375	34923	2777			14801															
		STD	0900	0372	3492	2777	0004147	0462	14805															
		STD	1000	0364	3492	2778	0004184	0503	14818															
133		OBS	T1088	0358	34910	2778			14830															
		STD	1100	0357	3491	2778	0004214	0545	14832															
		STD	1200	0352	3492	2779	0004170	0587	14846															
		STD	1300	0348	3493	2780	0004135	0629	14862															
		STD	1400	0345	3494	2781	0004111	0670	14877															
		STD	1500	0344	3495	2782	0004111	0711	14894															
133		OBS	T1640	0344	34960	2783			14918															

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE ° 1°/10	LONGITUDE ° 1°/10	E CODE	WARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
					1°	1'	MO	DAY		HE/10	CRUISE NO.			DE	HC	PS	EA						
311081	CK	52395N	03533 W		184	25	06	07	139	1967	C12	014		3621	15	25	2	3		X1	23	0014	
				E CODE	WATER		WIND		BARO- METER	AIR TEMP. °C	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. IN	DIR. OF FORCE	SPED OF FORCE															
									25	510	173	111	101	2	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH Mts	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t (°)	Σ Δ D DYN. M. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S C						
		STD	0000	0901	3478	2697	0010986	0000	14865														
139		OBS	0000	0901	34783	2697			14865														
139		OBS	0009	0885	34782	2699			14860														
		STD	0010	0881	3478	2700	0010724	0011	14859														
		STD	0020	0838	3478	2706	0010104	0021	14844														
		STD	0030	0796	3478	2712	0009544	0031	14830														
139		OBS	0030	0796	34776	2712			14830														
139		OBS	0049	0719	34782	2724			14803														
		STD	0050	0713	3478	2725	0008377	0049	14801														
139		OBS	0073	0611	34809	2741			14765														
		STD	0075	0605	3481	2742	0006821	0068	14763														
139		OBS	0097	0555	34821	2749			14746														
		STD	0100	0554	3482	2749	0006140	0084	14746														
		STD	0125	0546	3484	2751	0005959	0099	14747														
139		OBS	0146	0538	34852	2753			14748														
		STD	0150	0536	3485	2754	0005776	0114	14748														
139		OBS	T0194	0514	34854	2756			14746														
		STD	0200	0512	3486	2757	0005497	0142	14746														
		STD	0250	0497	3488	2761	0005234	0169	14748														
		STD	0300	0482	3489	2763	0005045	0195	14751														
139		OBS	0388	0456	34915	2768			14755														
		STD	0400	0452	3492	2769	0004589	0243	14755														
139		OBS	0484	0429	34927	2772			14760														
		STD	0500	0426	3493	2772	0004323	0287	14761														
139		OBS	T0581	0412	34933	2774			14769														
		STD	0600	0408	3493	2774	0004218	0330	14770														
		STD	0700	0387	3492	2776	0004148	0372	14778														
139		OBS	0775	0375	34909	2776			14785														
		STD	0800	0372	3491	2776	0004156	0414	14788														
		STD	0900	0361	3491	2777	0004138	0455	14800														
139		OBS	T0969	0355	34902	2778			14809														
		STD	1000	0355	3490	2778	0004155	0496	14814														
		STD	1100	0353	3491	2779	0004161	0538	14830														
		STD	1200	0352	3492	2779	0004174	0580	14846														
		STD	1300	0350	3493	2780	0004184	0621	14863														
		STD	1400	0349	3493	2781	0004195	0663	14879														
139		OBS	1451	0348	34937	2781			14887														

TABLE II.—Continued

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TABLE II.—Continued

SHIP NAME NO. 10	SHIP CODE	LATITUDE 10	LONGITUDE 10	DATE 10	TIME 10	YEAR	OPERATIONS		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEATHER			SEA THREAT CODE	CLOUD TYPE	MOON PHASE	NODE STATION NUMBER
							CRUISE NUMBER	STATION NUMBER			CH	HT	PER				
311091	CK	5244 N	03534 W	184	25 06 10	195 1967	C12	017	3573	1	28	2	3	X1	9	2	0017
* WET BULB TEMPERATURE FOR HUMIDITY CALCULATION OBSERVED DATA ONLY USE * WET BULB TEMPERATURE FOR HUMIDITY CALCULATION OBSERVED DATA ONLY USE																	
WATER COLOR	TEMP. °C	SALINITY	WIND DIRECTION °T	WIND SPEED KNOTS	BAROMETER PRESSURE mm Hg	AIR TEMP. °C	WET BULB °C	VIB. CODE	NO. OF OBS. DEPTHS	SPECIAL OBSERVATIONS							
29	505	193	093	061	7	14											
CAST NO.	TIME DURATION	CARD TYPE	DEPTH m	TEMP. °C	SALINITY	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10 ³	SND DPL. IN M/SEC	COMPUTED SOUND VELOCITY m/sec	D ₀ m	* AMBIENT LIGHT				* MEASURED SOUND VELOCITY m/sec		
											WAVE NO.	TOTAL-P	WAVE-H	WAVE-L	IN D ₀ -5	OUT	
195	STD	0000	0870	3493	2713	0009453	0000		14855								
	OBS	0000	0870	34927	2713				14855								
	STD	0010	0857	3492	2715	0009371	0009		14852								
195	OBS	0010	0857	34924	2715				14852								
	STD	0020	0812	3491	2720	0008776	0018		14836								
	STD	0030	0779	3490	2725	0008368	0027		14825								
195	OBS	0033	0771	34902	2726				14922								
	STD	0050	0749	3492	2730	0007895	0043		14817								
	OBS	0052	0747	34919	2731				14816								
195	STD	0075	0723	3494	2736	0007356	0062		14811								
	OBS	0078	0719	34948	2737				14810								
	STD	0100	0680	3497	2744	0006612	0079		14799								
195	OBS	0104	0675	34976	2746				14797								
	STD	0125	0669	3499	2748	0006351	0096		14799								
	STD	0150	0664	3501	2750	0006191	0111		14801								
195	OBS	0156	0663	35015	2750				14802								
	STD	0200	0642	3504	2752	0006033	0142		14809								
195	OBS	T0209	0662	35043	2753				14810								
	STD	0250	0630	3502	2755	0005841	0171		14804								
	STD	0300	0595	3500	2758	0005612	0200		14798								
	STD	0400	0536	3498	2764	0005168	0254		14790								
195	OBS	T0412	0530	34976	2764				14790								
	STD	0500	0494	3499	2769	0004639	0303		14790								
195	OBS	0512	0489	34989	2770				14790								
	STD	0600	0457	3497	2772	0004496	0349		14791								
	OBS	0614	0453	34970	2773				14792								
	STD	0700	0429	3496	2775	0004324	0393		14796								
	STD	0800	0407	3495	2776	0004221	0436		14903								
195	OBS	0822	3403	34953	2777				14905								
	STD	0900	0393	3494	2777	0004214	0478		14914								
	STD	1000	0381	3494	2778	0004232	0520		14925								
195	OBS	T1036	0377	34934	2778				14930								
	STD	1100	0371	3494	2779	0004199	0562		14838								
	STD	1200	0363	3494	2790	0004135	0604		14851								
	STD	1300	0357	3495	2781	0004101	0645		14866								
	STD	1400	0352	3495	2782	0004088	0686		14881								
	STD	1500	0350	3496	2783	0004038	0727		14896								
195	OBS	T1586	0349	34963	2783				14911								

REFERENCE SHIP NO.	SHIP CODE	LATITUDE ° 10'	LONGITUDE ° 10'	DATE 10'	TIME 10'	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODE STATION NUMBER
							CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	1	
311081	CK	52345N	035245W	184	25 06 11	1967	C12	018	2972	14	23	1	2	X1	2	3	0018
* WET BULB TEMPERATURE FOR HUMIDITY CALCULATION OBSERVED DATA ONLY USE																	
* WET BULB TEMPERATURE FOR HUMIDITY CALCULATION OBSERVED DATA ONLY USE																	
WATER COLOR CODE	TEMP. °C	SALINITY	WIND DIRECTION °T	WIND SPEED KNOTS	BAROMETER PRESSURE mm Hg	AIR TEMP. °C	WET BULB °C	VIB. CODE	NO. OF OBS. DEPTHS	SPECIAL OBSERVATIONS							
16	510	166	111	094	7	14											
CAST NO.	CARD TYPE	DEPTH m	TEMP. °C	SALINITY	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	SOUND VELOCITY m/sec	DENSITY 10 ³	COMPUTED SOUND VELOCITY m/sec	* AMBIENT LIGHT m/sec	* MEASURED SOUND VELOCITY m/sec						
167	STD	0000	0927	3477	2692	0011460	0000		14874								
	OBS	0000	0927	34773	2692				14874								
	STD	0010	0878	3477	2699	0010761	0011		14857								
167	OBS	0010	0878	34769	2699				14857								
	STD	0020	0827	3477	2707	0010017	0021		14840								
	STD	0030	0788	3477	2713	0009475	0031		14827								
167	OBS	0030	0788	34770	2713				14827								
167	OBS	0049	0749	34775	2719				14815								
	STD	0050	0745	3478	2720	0008835	0050		14813								
167	OBS	0073	0663	34826	2735				14786								
	STD	0075	0656	3483	2737	0007316	0070		14783								
167	OBS	0097	0600	34866	2747				14765								
	STD	0100	0598	3487	2747	0006322	0087		14765								
	STD	0125	0583	3487	2749	0006172	0102		14763								
167	OBS	0144	0576	34882	2751				14763								
	STD	0150	0576	3489	2752	0005972	0118		14764								
167	OBS	T0190	0572	34915	2754				14770								
	STD	0200	0563	3491	2755	0005702	0147		14768								
	STD	0250	0522	3491	2760	0005318	0174		14759								
	STD	0300	0488	3490	2763	0005025	0200		14753								
167	OBS	0374	0451	34893	2767				14750								
	STD	0400	0444	3490	2768	0004647	0249		14752								
167	OBS	0466	0427	34919	2771				14756								
	STD	0500	0419	34922	2772	0004326	0293		14758								
167	OBS	T0561	0407	34920	2774				14763								
	STD	0600	0400	3492	2774	0004202	0336		14767								
	STD	0700	0385	3491	2775	0004200	0378		14777								
167	OBS	0753	0379	34908	2776				14783								
	STD	0800	0375	3490	2775	0004250	0420		14789								
	STD	0900	0367	3490	2776	0004245	0463		14802								
167	OBS	T0941	0364	34896	2776				14808								
	STD	1000	0360	3490	2777	0004248	0505		14816								
	STD	1100	0356	3490	2777	0004284	0548		14831								
	STD	1200	0352	3490	2778	0004317	0591		14846								
	STD	1300	0351	3491	2779	0004312	0634		14863								
	STD	1400	0351	3492	2779	0004318	0677		14880								
167	OBS	1429	0351	34928	2780				14885								

TABLE II.—Continued

MODE REF IN BL

IDENTIFY

CROSS

NUMBER

DATE-TIME

DATE

TIME

STATION

STATION TIME

 

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	M/S KDSN SQUARE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	TIME	NODC NUMBER																																																
					STATION TIME			CRUISE NO.	STATION NUMBER		DR	HGT	PER	SEA																																																				
					MO	DAT													HR	10																																														
311081	CK	5244 N	03520 W	184	25	06 14 193	1967	C12	021	3201	16	30	2	4	X2	6	8	0021																																																
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th colspan="2">AIR TEMP °C</th><th colspan="2">SPECIFIC VOLUME</th><th colspan="2">SOUND VELOCITY</th><th colspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR</th><th>TEMP</th><th>DIR</th><th>SPED ON FORCE</th><th>DRY</th><th>WET</th><th>DRY</th><th>WET</th><th>DRY</th><th>WET</th><th>DRY</th><th>WET</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>30</td><td>510</td><td>953</td><td>106</td><td>094</td><td>7</td><td>14</td><td></td></tr></table>																			WATER		WIND		AIR TEMP °C		SPECIFIC VOLUME		SOUND VELOCITY		SPECIAL OBSERVATIONS		COLOR	TEMP	DIR	SPED ON FORCE	DRY	WET	DRY	WET	DRY	WET	DRY	WET																	30	510	953	106	094	7	14	
WATER		WIND		AIR TEMP °C		SPECIFIC VOLUME		SOUND VELOCITY		SPECIAL OBSERVATIONS																																																								
COLOR	TEMP	DIR	SPED ON FORCE	DRY	WET	DRY	WET	DRY	WET	DRY	WET																																																							
				30	510	953	106	094	7	14																																																								
REFERENCE	SHIP CODE	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	TEMP °C	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL P µg - dl/l	NO ₃ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -S µg - dl/l	pH	S C																																																	
			STD	0000	0883	3488	2707	0009971	0000	14859																																																								
			OBS	0000	0883	34883	2707			14859																																																								
193			STD	0010	0883	3489	2708	0009946	0010	14861																																																								
			OBS	0011	0883	34890	2708			14861																																																								
			STD	0020	0831	3491	2718	0009036	0019	14843																																																								
			STD	0030	0787	3492	2725	0008346	0028	14828																																																								
193			OBS	0034	0774	34928	2728			14824																																																								
			STD	0050	0748	3494	2732	0007686	0044	14817																																																								
193			OBS	0054	0743	34941	2733			14815																																																								
			STD	0075	0734	3498	2738	0007239	0063	14816																																																								
193			OBS	0081	0727	34986	2739			14814																																																								
			STD	0100	0687	3498	2744	0006614	0080	14802																																																								
193			OBS	0108	0674	34983	2746			14798																																																								
			STD	0125	0662	3499	2748	0006279	0096	14796																																																								
			STD	0150	0651	3501	2751	0006025	0112	14796																																																								
193			OBS	0162	0647	35013	2752			14796																																																								
			STD	0200	0648	3503	2753	0005919	0142	14803																																																								
193			OBS	T0217	0649	35042	2754			14807																																																								
			STD	0250	0628	3503	2756	0005705	0171	14804																																																								
			STD	0300	0598	3502	2759	0005502	0199	14800																																																								
			STD	0400	0547	3499	2763	0005202	0252	14795																																																								
193			OBS	0430	0534	34981	2764			14795																																																								
			STD	0500	0512	3500	2768	0004820	0302	14798																																																								
193			OBS	0536	0497	35004	2770			14797																																																								
			STD	0600	0457	3498	2773	0004417	0348	14791																																																								
193			OBS	T0642	0435	34965	2774			14789																																																								
			STD	0700	0419	3495	2775	0004295	0392	14792																																																								
			STD	0800	0396	3494	2776	0004196	0434	14798																																																								
193			OBS	0859	0385	34933	2777			14804																																																								
			STD	0900	0381	3493	2777	0004164	0476	14809																																																								
			STD	1000	0372	3493	2778	0004138	0518	14822																																																								
193			OBS	T1076	0366	34934	2779			14832																																																								
			STD	1100	0364	3494	2779	0004114	0559	14835																																																								
			STD	1200	0356	3494	2781	0004049	0600	14848																																																								
			STD	1300	0349	3495	2782	0003993	0640	14862																																																								
			STD	1400	0343	3496	2783	0003947	0680	14877																																																								
			STD	1500	0337	3496	2784	0003898	0719	14891																																																								
193			OBS	T1630	0330	34973	2786			14910																																																								

TABLE III.—Observed and interpolated oceanographic data from stations taken by USCGC MENDOTA, at Ocean Station CHARLIE, 9 July—1 August 1967, prepared from NODC Listing No. 31-1138.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WIND SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	SEA DEPTH OF THERM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER		
CIM CODE	ID. NO.				10'	1'	MO	DAY	HR/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA			
311138	ME	52465N	036017W	184	26	07	09	194	1967	C13	001	3658	15	33	3				6	6	0001
WATER																					
COLOR CODE		TRANS M	DR.	SPED OR FORCE	BARO- METER PRESS		AIR TEMP °C		NO. OF OBS.		SPECIAL OBSERVATIONS										
19		503	240	100	094	7	14														
MESSAGE TIME HR 1/10	CAST # NO	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY-318°		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - g/l	TOTAL-P μg - g/l	NO ₃ -N μg - g/l	NO ₃ -N μg - g/l	SiO ₄ -Si μg - g/l	PH					
		STD	0000	1017	3488	2685	0012084	0000	14909												
194		OBS	0000	1017	34883	2685			14909												
		STD	0010	0984	3488	2690	0011606	0012	14898												
194		OBS	0010	0984	34878	2690			14898												
		STD	0020	0972	3488	2692	0011436	0023	14895												
		STD	0030	0960	3488	2694	0011260	0035	14893												
194		OBS	0031	0959	34879	2695			14892												
		STD	0050	0814	3496	2724	0008489	0054	14842												
194		OBS	0050	0814	34958	2724			14842												
		STD	0075	0712	3501	2743	0006693	0073	14808												
194		OBS	0075	0712	35013	2743			14808												
		STD	0100	0695	3503	2747	0006379	0090	14805												
194		OBS	0100	0695	35030	2747			14805												
		STD	0125	0691	3505	2749	0006217	0106	14808												
		STD	0150	0686	3506	2751	0006109	0121	14810												
194		OBS	0150	0686	35061	2751			14810												
		STD	0200	0671	3507	2753	0005962	0151	14813												
194		OBS	0201	0671	35065	2753			14813												
		STD	0250	0670	3506	2753	0006060	0181	14821												
		STD	0300	0660	3506	2754	0006004	0211	14825												
		STD	0400	0607	3503	2759	0005671	0270	14820												
		OBS	T0403	0605	35028	2759			14820												
		STD	0500	0512	3498	2767	0004968	0323	14797												
194		OBS	0504	0509	34979	2767			14797												
		STD	0600	0466	3497	2771	0004599	0371	14795												
194		OBS	T0607	0463	34966	2771			14795												
		STD	0700	0427	3495	2774	0004426	0416	14795												
		STD	0800	0398	3492	2775	0004346	0460	14799												
194		OBS	0811	0396	34920	2775			14800												
		STD	0900	0387	3492	2776	0004316	0503	14811												
		STD	1000	0378	3492	2777	0004283	0546	14824												
194		OBS	T1019	0376	34924	2777			14826												
		STD	1100	0369	3493	2778	0004247	0589	14837												
		STD	1200	0361	3493	2779	0004220	0631	14850												
		STD	1300	0353	3493	2780	0004182	0673	14864												
		STD	1400	0346	3493	2781	0004161	0715	14878												
		STD	1500	0340	3494	2782	0004149	0756	14892												
194		OBS	T1522	0339	34936	2782			14895												

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE		STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAIL ORIGIN OF SAMPLE		WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
				10'	1"	MO	DAY		HR	10'		1"	CRUISE NO.	STATION NUMBER	DR	10'			
311138	ME	52354N	036007W	184	26	07	10	102	1967	C13 002	3146	15	34	3	4	X1	3 6	0002	
				WATER		WIND		AIR TEMP °C		SPECIAL OBSERVATIONS									
				COLOR CODE	TSSL AM	DIR	SPEED OF WIND	BARO-METER (MM)	DEW RULE	WET RULE	WIS CODE	NO OBS DEPTS							
				16 503		240		117 106		7 13									
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3187		S Δ D DYN. Δ 10 ³	SOUND VELOCITY	O ₂ (ml)	PO ₂ -P (μg/g)	TOTAL-P (μg/g)	NO ₃ -N (μg/g)	NO ₂ -N (μg/g)	SiO ₄ -Si (μg/g)	pH	°C	
102		STD	0000	1028	3474	2672	0013359		0000	14911									
		OBS	0000	1028	34735	2672				14911									
		STD	0010	0984	3473	2679	0012715		0013	14896									
102		OBS	0010	0984	34728	2679				14896									
		STD	0020	0965	3474	2683	0012366		0026	14891									
		STD	0030	0934	3475	2688	0011831		0038	14881									
102		OBS	0032	0927	34748	2690				14879									
		STD	0050	0833	3478	2707	0010087		0060	14847									
		OBS	0054	0814	34787	2711				14841									
102		STD	0075	0723	3480	2725	0008457		0083	14809									
		STD	0100	0641	3481	2737	0007340		0103	14781									
		OBS	0105	0628	34808	2739				14777									
102		STD	0125	0600	3482	2743	0006755		0120	14769									
		STD	0150	0572	3484	2748	0006296		0136	14762									
		OBS	0159	0564	34842	2749				14760									
102		STD	0200	0540	3485	2753	0005939		0167	14757									
		OBS	0213	0533	34846	2754				14757									
		STD	0250	0515	3485	2756	0005668		0196	14755									
102		STD	0300	0496	3485	2758	0005506		0224	14756									
		STD	0400	0472	3489	2764	0005043		0277	14763									
		OBS	T0420	0470	34896	2765				14766									
102		STD	0500	0470	3495	2769	0004685		0325	14780									
		OBS	0509	0470	34958	2770				14781									
		STD	0600	0439	3495	2773	0004420		0371	14783									
102		OBS	T0612	0435	34950	2773				14784									
		STD	0700	0407	3493	2774	0004303		0415	14786									
		STD	0800	0384	3491	2775	0004279		0457	14793									
102		OBS	0815	0381	34908	2775				14794									
		STD	0900	0372	3491	2776	0004266		0500	14805									
		STD	1000	0363	3490	2777	0004268		0543	14817									
102		OBS	T1022	0361	34901	2777				14820									
		STD	1100	0355	3491	2778	0004227		0585	14831									
		STD	1200	0350	3491	2779	0004205		0627	14845									
102		STD	1300	0346	3492	2780	0004192		0669	14861									
		STD	1400	0343	3492	2781	0004189		0711	14876									
		STD	1500	0343	3493	2781	0004223		0753	14893									
102	OBS	T1523	0343	34931	2781				14897										

TABLE III.—Continued

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARSSEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	WAVE	WEATHER	CLOUD	MODE		
CRUISE	NO.	1° 10'	1° 10'	SQ.	10'	10'	NO.	NO.	DR	PER	SEA	TYPE	STATION	
311138	ME	52341N	035320W	184	25 07 11 130	1967	C13 003	2780	14	25	3 2	X1 3 6	0003	
WATER	WIND	BARO-	AIR TEMP	WET	NO.	SPECIAL								
COLOR	TRANS	METER	DRY	BULB	DEPTHS	OBSERVATIONS								
17	511	261	119	111	7	14								
MISSING	CAST	CARD	DEPTH	T °C	S °F	SIGMA-t	SPECIFIC VOLUME	SOUND	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₂ -S	PH
HR 1/10	NO.	TYPE	M				ANOMALY - 10 ³	VELOCITY	PG - 01/1	PG - 01/1	PG - 01/1	PG - 01/1	PG - 01/1	
		STD	0000	1049	3484	2676	0012925	0000	14920					
130	OBS	0000	1049	3484	2676				14920					
	STD	0010	0994	3484	2686	0012063	0012	14901						
130	OBS	0010	0994	34838	2686			14901						
	STD	0020	0958	3485	2693	0011419	0024	14890						
130	OBS	0027	0926	34868	2699			14879						
	STD	0030	0908	3488	2703	0010435	0035	14873						
130	OBS	0043	0834	34911	2717			14848						
	STD	0050	0796	3492	2724	0008511	0054	14835						
130	OBS	0065	0732	34939	2735			14813						
	STD	0075	0707	3495	2739	0007095	0074	14805						
130	OBS	0085	0685	34962	2743			14798						
	STD	0100	0657	3494	2745	0006547	0091	14789						
	STD	0125	0628	3493	2748	0006287	0107	14782						
130	OBS	0129	0625	34927	2748			14781						
	STD	0150	0628	3495	2750	0006175	0122	14786						
130	OBS	T0175	0632	34967	2751			14792						
	STD	0200	0633	3498	2751	0006091	0153	14797						
	STD	0250	0635	3501	2753	0005992	0183	14806						
	STD	0300	0637	3503	2755	0005894	0213	14816						
130	OBS	T0341	0639	35056	2757			14823						
	STD	0400	0587	3501	2760	0005560	0270	14812						
130	OBS	0426	0568	35000	2761			14808						
	STD	0500	0527	3500	2766	0005005	0323	14804						
130	OBS	T0510	0522	35000	2767			14803						
	STD	0600	0476	3497	2770	0004720	0372	14799						
130	OBS	0682	0443	34956	2773			14799						
	STD	0700	0438	3495	2773	0004519	0418	14799						
	STD	0800	0412	3494	2775	0004384	0462	14805						
130	OBS	T0857	0400	34935	2776			14810						
	STD	0900	0392	3494	2777	0004271	0506	14813						
	STD	1000	0375	3494	2779	0004137	0548	14823						
	STD	1100	0363	3494	2780	0004057	0589	14835						
	STD	1200	0356	3495	2781	0004034	0629	14848						
	STD	1300	0353	3495	2781	0004057	0670	14864						
130	OBS	T1353	0353	34949	2782			14873						

MODE REF. NO.	SHIP	LATITUDE	LONGITUDE	MARSSEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	WAVE	WEATHER	CLOUD	MODE		
CRUISE	NO.	1° 10'	1° 10'	SQ.	10'	10'	NO.	NO.	DR	PER	SEA	TYPE	STATION	
311138	ME	52587N	035336W	184	25 07 12 210	1967	C13 004	2698	1	14	3 4	X4 6 8	0004	
WATER	WIND	BARO-	AIR TEMP	WET	NO.	SPECIAL								
COLOR	TRANS	METER	DRY	BULB	DEPTHS	OBSERVATIONS								
30	506	098	102	101	6	14								
MISSING	CAST	CARD	DEPTH	T °C	S °F	SIGMA-t	SPECIFIC VOLUME	SOUND	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₂ -S	PH
HR 1/10	NO.	TYPE	M				ANOMALY - 10 ³	VELOCITY	PG - 01/1	PG - 01/1	PG - 01/1	PG - 01/1	PG - 01/1	
		STD	0000	0977	3487	2691	0011533	0000	14894					
	OBS	0000	0977	34871	2691			14894						
	STD	0010	0965	3487	2693	0011346	0011	14891						
210	OBS	0010	0965	34873	2693			14891						
	STD	0020	0938	3488	2698	0010860	0022	14883						
	STD	0030	0901	3490	2705	0010228	0033	14871						
210	OBS	0032	0893	34898	2707			14869						
	STD	0050	0796	3493	2724	0008477	0051	14835						
210	OBS	0052	0787	34927	2726			14832						
	STD	0075	0706	3492	2737	0007317	0071	14804						
210	OBS	0077	0700	34918	2737			14802						
	STD	0100	0631	3487	2743	0006709	0089	14778						
210	OBS	0102	0627	34872	2744			14777						
	STD	0125	0648	3494	2746	0006499	0105	14790						
	STD	0150	0659	3498	2748	0006342	0121	14799						
210	OBS	0154	0659	34986	2748			14799						
	STD	0200	0636	3498	2751	0006138	0152	14798						
210	OBS	T0208	0632	34978	2751			14798						
	STD	0250	0614	3498	2754	0005949	0183	14797						
	STD	0300	0593	3498	2756	0005764	0212	14797						
	STD	0400	0554	3497	2761	0005418	0268	14798						
210	OBS	T0408	0551	34973	2761			14798						
	STD	0500	0519	3498	2766	0005031	0320	14800						
210	OBS	0509	0514	34982	2767			14800						
	STD	0600	0473	3497	2770	0004686	0369	14797						
210	OBS	T0611	0468	34968	2771			14797						
	STD	0700	0432	3494	2773	0004498	0415	14797						
	STD	0800	0401	3492	2775	0004379	0459	14800						
210	OBS	0816	0397	34921	2775			14801						
	STD	0900	0384	3491	2775	0004363	0503	14810						
	STD	1000	0370	3490	2776	0004349	0546	14820						
210	OBS	T1019	0368	34902	2776			14823						
	STD	1100	0363	3491	2777	0004301	0589	14834						
	STD	1200	0358	3492	2779	0004244	0632	14849						
	STD	1300	0352	3493	2780	0004185	0674	14864						
	STD	1400	0347	3494	2781	0004123	0716	14878						
	STD	1500	0341	3495	2783	0004058	0757	14893						
210	OBS	T1523	0340	34951	2783			14896						

TABLE III.—Continued

REFERENCE CRUISE CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WGS84 SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR	HGT	PER		SEA	1/10		2/10
311138	ME	52588N	035378W	184	25	07	13 129	1967	C13	005	2688	15	25	2	3		X1	3	1	0005
				WATER	WIND		BARO- METER (mb)		AIR TEMP °C		VSL CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS (m)	DR	SPED OF FORCE		DRY BUL	WET BUL										
							21	502	102	110	100	7	14							
MESSAGE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M. ± 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 ₂ -S µg - ml/l	pH	°C	
		STD	0000	1015	3487	2685	0012125		0000		14908									
129	OBS	0000	1015	34873	2685						14908									
	STD	0010	0970	3487	2692		0011433		0012		14893									
129	OBS	0010	0970	34871	2692						14893									
	STD	0020	0953	3488	2696		0011117		0023		14888									
	STD	0030	0926	3488	2700		0010714		0034		14880									
129	OBS	0031	0923	34884	2701						14879									
	STD	0050	0843	3491	2716		0009277		0054		14853									
129	OBS	0051	0839	34910	2716						14851									
	STD	0075	0724	3493	2735		0007511		0075		14811									
129	OBS	0077	0717	34926	2736						14809									
	STD	0100	0663	3489	2741		0006968		0093		14791									
129	OBS	0102	0660	34891	2741						14790									
	STD	0125	0661	3494	2745		0006643		0110		14795									
	STD	0150	0663	3498	2747		0006403		0126		14800									
129	OBS	0153	0663	34987	2748						14801									
	STD	0200	0657	3500	2750		0006255		0158		14806									
129	OBS	T0209	0655	35006	2751						14807									
	STD	0250	0635	3500	2753		0006034		0189		14806									
	STD	0300	0610	3500	2756		0005820		0218		14804									
	STD	0400	0560	3498	2761		0005409		0275		14800									
129	OBS	T0411	0554	34983	2762						14800									
	STD	0500	0507	3498	2767		0004899		0326		14795									
129	OBS	0511	0502	34981	2768						14795									
	STD	0600	0465	3497	2771		0004587		0373		14794									
129	OBS	T0612	0461	34968	2772						14795									
	STD	0700	0432	3495	2774		0004433		0419		14797									
	STD	0800	0406	3493	2775		0004358		0463		14803									
129	OBS	0818	0402	34931	2775						14804									
	STD	0900	0389	3493	2776		0004302		0506		14812									
	STD	1000	0376	3492	2777		0004282		0549		14823									
129	OBS	T1022	0373	34920	2777						14826									
	STD	1100	0364	3493	2779		0004195		0591		14835									
	STD	1200	0355	3493	2780		0004110		0633		14848									
	STD	1300	0348	3494	2781		0004054		0674		14862									
	STD	1400	0344	3495	2782		0004033		0714		14877									
	STD	1500	0341	3495	2783		0004022		0754		14893									
129	OBS	T1534	0341	34956	2783						14898									

REFERENCE CRUISE CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WGS84 SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR	HGT BUL	PER		SEA	1/10		2/10
311138	ME	52537N	035407W	184	25	07	14 128	1967	C13	006	2597	18	08	2	3		X4	1	9	0006
				WATER	WIND		BARO- METER (mb)		AIR TEMP °C		VSL CODE	NO. OBS DEPTH	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS (m)	DR	SPED OF FORCE	METER (mb)	DRY BUL	WET BUL										
							05	513	083	111	111	2	14							
MESSAGE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M. E 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 ₂ -S µg - ml/l	pH	°C	
		STD	0000	1013	3486	2684	0012174		0000		14907									
128	OBS	0000	1013	34862	2684						14907									
	STD	0010	1009	3486	2685		0012138		0012		14907									
128	OBS	0013	1006	34860	2685						14906									
	STD	0020	0989	3486	2688		0011826		0024		14902									
	STD	0030	0966	3487	2693		0011437		0036		14895									
128	OBS	0040	0942	34871	2697						14888									
	STD	0050	0841	3489	2715		0009389		0057		14852									
128	OBS	0061	0756	34903	2728						14821									
	STD	0075	0702	3490	2736		0007377		0078		14802									
128	OBS	0092	0663	34904	2741						14790									
	STD	0100	0664	3494	2744		0006636		0095		14792									
128	OBS	0123	0666	34999	2749						14797									
	STD	0125	0663	3499	2748		0006292		0111		14796									
	STD	0150	0634	3495	2749		0006252		0127		14788									
128	OBS	0184	0610	34929	2750						14784									
	STD	0200	0613	3494	2751		0006131		0158		14788									
128	OBS	T0246	0615	34974	2753						14787									
	STD	0250	0613	3497	2754		0005950		0188		14797									
	STD	0300	0587	3498	2757		0005674		0217		14795									
	STD	0400	0541	3498	2763		0005209		0272		14793									
128	OBS	T0484	0506	34981	2767						14792									
	STD	0500	0500	3498	2768		0004822		0322		14792									
	OBS	0508	0465	34976	2772						14794									
	STD	0600	0464	3498	2772		0004531		0368		14794									
	STD	0700	0425	3495	2774		0004365		0413		14794									
128	OBS	T0715	0420	34946	2774						14794									
	STD	0800	0403	3494	2776		0004293		0456		14801									
	STD	0900	0387	3493	2776		0004271		0499		14811									
128	OBS	0955	0379	34922	2777						14817									
	STD	1000	0374	3493	2777		0004228		0542		14822									
	STD	1100	0365	3493	2779		0004162		0584		14835									
128	OBS	T1190	0357	34937	2780						14847									
	STD	1200	0356	3494	2781		0004071		0625		14848									
	STD	1300	0349	3494	2781		0004067		0665		14862									
	STD	1400	0342	3495	2783		0003986		0706		14876									
	STD	1500	0337	3496	2784		0003928		0745		14891									
	STD	1750	0327	3497	2786		0003914		0843		14929									
128	OBS	T1795	0326	34975	2786						14937									

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WAVELENGTH	STATION TIME	YEAR	ORIGINATOR		DEPTH	WAVE	WAVE	CLOUD	NOOD								
CRUISE NO.	ID. NO.	1/10	1/10	SQ	GMT		NO.	STATION NUMBER	TO BOTTOM	OBS. DEPTH	CODES	STATION NUMBER									
10'	1"	MO	DAY	HR	1/10					14	02	1	3	X2	7	8		0007			
311138	ME	52380N	036127W	184	26	07	15	136	1967	C13	007	3347	14	02	1	3	X2	7	8		0007
				WATER	WIND	BARO-METER	AIR TEMP.		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
				COLOR CODE	WIND DIR.	WIND SPEED (kts)	DRY BULB	WET BULB	VIS. CODE												
				33	S12	173	111	108	6	14											
MESSAGE TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Δ D	Δ T	SOUND VELOCITY	O ₂ M/L	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH				
HR 1/10							ANOMALY-15°	10 ⁻³	10 ⁻³			pg - 0/1	pg - 0/1	pg - 0/1	pg - 0/1	pg - 0/1					
		STD	0000	1049	3476	2670	0013501	0000		14919											
136		OBS	0000	1049	34763	2670				14919											
136		OBS	0009	1046	34737	2669				14919											
		STD	0010	1043	3474	2669	0013593	0014		14918											
		STD	0020	1012	3478	2678	0012807	0027		14909											
136		OBS	0029	0978	34818	2687				14898											
		STD	0030	0974	3482	2688	0011917	0039		14897											
136		OBS	0047	0894	34914	2708				14871											
		STD	0050	0869	34993	2713	0009510	0061		14863											
136		OBS	0070	0746	34994	2737				14820											
		STD	0075	0732	3500	2739	0007063	0081		14815											
136		OBS	0093	0695	35012	2746				14804											
		STD	0100	0692	3502	2747	0006413	0098		14804											
		STD	0125	0683	3504	2749	0006185	0114		14805											
136		OBS	0139	0679	35047	2751				14806											
		STD	0150	0678	3506	2752	0006013	0129		14807											
136		OBS	0187	0676	35075	2753				14813											
		STD	0200	0655	3505	2754	0005857	0159		14806											
		STD	0250	0586	3495	2755	0005786	0188		14786											
		STD	0300	0533	3490	2758	0005572	0216		14772											
136		OBS	T0372	0486	3488	2762				14764											
		STD	0400	0465	3491	2764	0005046	0269		14769											
136		OBS	0460	0474	34952	2769				14775											
		STD	0500	0455	3494	2770	0004583	0318		14773											
136		OBS	T0552	0434	34932	2772				14773											
		STD	0600	0426	3493	2772	0004425	0363		14778											
		STD	0700	0408	3492	2774	0004389	0407		14787											
136		OBS	0743	0401	34918	2774				14791											
		STD	0800	0390	3491	2775	0004349	0450		14795											
		STD	0900	0373	3491	2776	0004240	0493		14805											
136		OBS	T0924	0370	34908	2777				14808											
		STD	1000	0367	3491	2777	0004257	0536		14819											
		STD	1100	0363	3491	2777	0004296	0578		14834											
		STD	1200	0359	3491	2778	0004332	0622		14849											
		STD	1300	0355	3492	2779	0004292	0665		14865											
		STD	1400	0352	3493	2780	0004251	0707		14880											
136		OBS	T1438	0350	34931	2780				14886											

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	HAZARD SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH	WAVE	WIND	CLOUD CODES	MODE						
SHIP CODE	ID. NO.	1/18	1/18	18°	1°	MO	DAY	HELIUM	CRUISE NO.	STATION NUMBER	TO STATION	WAVE OBSERVATIONS	WIND CODE	CLOUD CODES	MODE STATION NUMBER				
311138	ME	52317N	035491W	184	25	07	16	126	1967	C13 008	3201	15	02	5	5	X4	7	8	0008
		WATER	WIND	BARO-METER	SEA TEMP. °C	VIS CODE	NO. OF OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOUR	TRANS. IN	DIR.	SPEED OR FORCE	DIR. BULB	WET BULB														
			34	S08	179	106	106	5	14										
MESSAGE TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. ± 10°	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH			
		STD	0000	1055	3483	2674	0013136	0000	14922										
	126	OBS	0000	1055	34826	2674			14922										
		STD	0010	1052	3483	2675	0013101	0013	14922										
	126	OBS	0010	1052	34827	2675			14922										
		STD	0020	1021	3483	2680	0012586	0026	14913										
		STD	0030	0985	3484	2687	0011946	0038	14901										
	126	OBS	0033	0973	34845	2690			14897										
		STD	0050	0897	3489	2706	0010232	0060	14873										
	126	OBS	0052	0888	34897	2708			14870										
		STD	0075	0768	3493	2728	0008121	0083	14828										
	126	OBS	0078	0756	34929	2730			14824										
		STD	0100	0692	3493	2739	0007090	0102	14803										
	126	OBS	0103	0685	34929	2740			14801										
		STD	0125	0652	3492	2744	0006670	0120	14791										
		STD	0150	0630	3492	2747	0006424	0136	14786										
	126	OBS	0154	0628	34919	2747			14786										
		STD	0200	0643	3498	2750	0006220	0168	14801										
	126	OBS	T0206	0644	34984	2750			14802										
		STD	0250	0620	3498	2753	0005973	0198	14800										
		STD	0300		3498	2757	0005739	0227	14798										
		STD	0400	0551	3498	2762	0005341	0283	14797										
	126	OBS	T0403	0550	34978	2762			14797										
		STD	0500	0516	3500	2768	0004881	0334	14799										
	126	OBS	0501	0516	34999	2768			14799										
		STD	0600	0474	3498	2771	0004604	0381	14798										
	126	OBS	T0601	0474	34983	2771			14798										
		STD	0700	0435	3497	2774	0004350	0426	14798										
		STD	0800	0407	3495	2776	0004236	0469	14803										
	126	OBS	0807	0405	34951	2776			14804										
		STD	0900	0393	3495	2777	0004202	0511	14814										
		STD	1000	0381	3494	2778	0004179	0553	14826										
	126	OBS	T1018	0379	34942	2778			14828										
		STD	1100	0370	3495	2780	0004105	0594	14838										
		STD	1200	0360	3495	2781	0004024	0635	14850										
		STD	1300	0352	3496	2782	0003964	0675	14864										
		STD	1400	0344	3496	2784	0003908	0714	14877										
		STD	1500	0338	3497	2785	0003867	0753	14892										
	126	OBS	T1547	0335	34973	2785			14898										

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE OF 1/18	LONGITUDE OF 1/18	M/S SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	SAL. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO	DAY		HR	10'			1'	CRUISE NO.	STATION NUMBER	DIR.		PER	SEA	
311138		ME	52442N	035440W	184	25	07	17	163	1967	C13	009	3475	35	06	2	5		X2	7	8	0009
		WATER		WIND		BARO-METER		AIR TEMP. °C		VSL CODE		NO. OBS.		SPECIAL OBSERVATIONS								
		COLOR CODE		DIRE. MI		DR. SPD OR FORCE		DIR BULB		WET BULB		DEPTH										
				00		500		179		122		117		6		19						
MISSIONS TIME HR	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTN. M. Σ 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S					
		STD	0000	1089	3486	2671	0013432	0000	14934													
130		OBS	0000	1089	34864	2671			14934													
		STD	0010	1068	3486	2674	0013135	0013	14928													
130		OBS	0010	1068	34859	2674			14928													
		STD	0020	0998	3484	2685	0012135	0026	14904													
		STD	0030	0932	3484	2696	0011104	0038	14882													
130		OBS	0031	0926	34836	2697			14880													
		STD	0050	0817	3485	2715	0009334	0058	14842													
130		OBS	0051	0812	34855	2716			14840													
		STD	0075	0735	3488	2729	0008026	0080	14815													
130		OBS	0076	0733	34877	2730			14814													
		STD	0100	0705	3495	2739	0007146	0099	14808													
130		OBS	0101	0704	34948	2739			14808													
		STD	0125	0677	3496	2744	0006700	0116	14801													
		STD	0150	0656	3498	2748	0006314	0132	14798													
130		OBS	0152	0655	34981	2749			14798													
		STD	0200	0640	3501	2753	0005980	0163	14800													
130		OBS	0205	0638	35010	2753			14800													
		STD	0250	0628	3501	2754	0005891	0193	14803													
		STD	0300	0611	3501	2756	0005758	0222	14805													
		STD	0400	0563	3500	2762	0005306	0277	14802													
130		OBS	T0411	0556	35002	2763			14801													
		STD	0500	0490	3498	2769	0004678	0327	14788													
130		OBS	0511	0484	34981	2770			14788													
		STD	0600	0447	3496	2773	0004447	0373	14787													
130		OBS	T0613	0443	34956	2773			14787													
		STD	0700	0428	3495	2774	0004401	0417	14795													
		STD	0800	0410	3495	2776	0004287	0460	14804													
130		OBS	0818	0407	34948	2776			14806													
		STD	0900	0391	3494	2777	0004230	0503	14813													
		STD	1000	0374	3494	2779	0004117	0545	14823													
130		OBS	T1023	0371	34936	2779			14825													
		STD	1100	0365	3494	2780	0004089	0586	14835													
		STD	1200	0357	3495	2781	0004031	0626	14849													
		STD	1300	0350	3495	2782	0003983	0666	14863													
		STD	1400	0343	3496	2783	0003932	0706	14877													
		STD	1500	0337	3497	2784	0003891	0745	14891													
130		OBS	T1531	0335	34967	2785			14896													
		STD	1750	0324	3498	2787	0003806	0841	14928													
		STD	2000	0312	3500	2789	0003707	0935	14966													
163		OBS	T2002	0312	34996	2789			14966													
		STD	2500	0308	3500	2790	0003991	1128	15050													
163		OBS	T2517	0308	34996	2790			15052													
		STD	3000	0306	3499	2789	0004314	1335	15135													
163		OBS	T3025	0306	34992	2789			15139													
163		OBS	T3338	0303	34988	2789			15192													
163		OBS	3453	0305	34989	2789			15213													

TABLE III.—Continued

REFERENCE	SHIP CODE	SHIP NO.	LATITUDE 1°/10	LONGITUDE 1°/10	STATION SQUARE	STATION TIME			YEAR	ORIGINATOR		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- TH CODE	CLOUD CODES		MOON STATION NUMBER	
						MO	DAY	HR/10		CRUISE NO.	STATION NUMBER			DR	PER	SEA	1/10		2/10			
311138	ME		52417N	035335W	184	25	07	18	182	1967	C13	010	3612	15	03	2	4		X1	8	2	0010
		WATER		WIND		BARO- METER		AIR TEMP. °C		V.L. CODE		NO. OF DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TEMP (°C)	DR.	DIR. OR FORCE	DR.	WET BULB	DR.	WET BULB													
		36	506	210	117	106	7	14														
MESSING TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. Σ 10²	SOUND VELOCITY	O₂ ml/l	PO₂-P pg - ml/l	TOTAL-P pg - ml/l	NO₃-N pg - ml/l	NO₂-N pg - ml/l	SiO₄-Si pg - ml/l	pH	Σ					
		STD	0000	1143	3484	2659	0014547	0000	14953													
		OBS	0000	1143	34840	2659			14953													
		STD	0010	1076	3483	2671	0013455	0014	14931													
182		OBS	0010	1076	34834	2671			14931													
		STD	0020	1037	3484	2678	0012777	0027	14919													
		STD	0030	0986	3486	2688	0011837	0039	14902													
182		OBS	0030	0986	34857	2688			14902													
182		OBS	0049	0854	34905	2714			14857													
		STD	0050	0847	3491	2715	0009329	0061	14854													
182		OBS	0074	0723	34917	2734			14811													
		STD	0075	0722	3492	2735	0007521	0082	14810													
182		OBS	0099	0691	34928	2740			14802													
		STD	0100	0690	3493	2740	0007056	0100	14802													
		STD	0125	0669	3495	2744	0006669	0117	14798													
		STD	0150	0649	3495	2747	0006423	0133	14794													
182		OBS	0150	0649	34953	2747			14794													
182		OBS	0199	0614	34926	2750			14788													
		STD	0200	0614	3493	2750	0006218	0165	14788													
		STD	0250	0597	3494	2753	0005999	0196	14790													
		STD	0300	0579	3495	2756	0005767	0225	14791													
		STD	0400	0537	3496	2762	0005301	0280	14791													
182		OBS	T0402	0536	34963	2762			14791													
182		OBS	0498	0488	34974	2769			14787													
		STD	0500	0487	3497	2769	0004709	0330	14787													
182		OBS	T0596	0460	34977	2772			14792													
		STD	0600	0459	3498	2773	0004464	0376	14792													
		STD	0700	0433	3496	2774	0004356	0420	14798													
182		OBS	0797	0411	34951	2776			14804													
		STD	0800	0410	3495	2776	0004287	0464	14804													
		STD	0900	0392	3494	2777	0004242	0506	14813													
182		OBS	T0990	0378	34934	2778			14822													
		STD	1000	0377	3493	2778	0004197	0548	14824													
		STD	1100	0364	3494	2780	0004091	0590	14835													
		STD	1200	0353	3494	2781	0004005	0630	14847													
		STD	1300	0345	3495	2782	0003952	0670	14861													
		STD	1400	0340	3495	2783	0003932	0709	14875													
182		OBS	T1494	0338	34959	2784			14891													

TABLE III.—Continued

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	MARS DEN SQUARE 10°	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THIR CODE	CLOUD CODE	NODC STATION NUMBER
					10°	1°		CRUISE NO.	STATION NUMBER			DB	HGT	PER			
311138	ME	52422N	035465W	184	25	07 19 159	1967	C13	011	3438	15	05	1	5		X1	0011
				WATER		WIND	BARO- METER		AIR TEMP. °C		VSL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. MIL	DIR.	SPED OF FORCE	METER (mm)	DRY BULB	WET BULB							
								00	500	201	131	099	7	14			

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. $\pm 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	C CODE
		STD	0000	1147	3484	2658	0014610	0000	14954								
159		OBS	0000	1147	34841	2658			14954								
		STD	0010	1101	3484	2667	0013853	0014	14940								
159		OBS	0010	1101	34838	2667			14940								
		STD	0020	1054	3485	2676	0012988	0028	14925								
		STD	0030	1005	3486	2685	0012124	0040	14909								
159		OBS	0031	1000	34862	2686			14907								
		STD	0050	0902	3491	2706	0010183	0063	14875								
159		OBS	0051	0897	34909	2707			14873								
		STD	0075	0793	3491	2723	0008603	0086	14838								
159		OBS	0075	0793	34908	2723			14838								
		STD	0100	0718	3497	2739	0007136	0106	14814								
159		OBS	0100	0718	34970	2739			14814								
		STD	0125	0680	3495	2743	0006814	0123	14803								
		STD	0150	0656	3495	2746	0006537	0140	14797								
159		OBS	0151	0655	34946	2746			14797								
		STD	0200	0645	3498	2750	0006274	0172	14802								
159		OBS	T0202	0645	34978	2750			14802								
		STD	0250	0629	3498	2752	0006090	0203	14803								
		STD	0300	0608	3499	2755	0005861	0233	14803								
		STD	0400	0558	3500	2762	0005287	0288	14800								
159		OBS	T0402	0557	34997	2763			14800								
		STD	0500	0495	3498	2768	0004776	0339	14790								
159		OBS	0500	0495	34978	2768			14790								
159		OBS	T0599	0446	34992	2775			14787								
		STD	0600	0446	3499	2775	0004213	0384	14787								
		STD	0700	0430	3497	2775	0004276	0426	14796								
		STD	0800	0413	3495	2775	0004322	0469	14806								
159		OBS	0800	0413	34950	2775			14806								
		STD	0900	0394	3495	2777	0004228	0512	14814								
159		OBS	T0998	0378	34940	2778			14824								
		STD	1000	0378	3494	2778	0004165	0554	14824								
		STD	1100	0364	3495	2780	0004047	0595	14835								
		STD	1200	0353	3495	2782	0003954	0635	14847								
		STD	1300	0346	3496	2783	0003912	0674	14861								
		STD	1400	0340	3496	2784	0003873	0713	14876								
159		OBS	T1499	0338	34967	2784			14891								

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	MARS DEN SQUARE 10°	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THIR CODE	CLOUD CODE	NODC STATION NUMBER
					10°	1°		CRUISE NO.	STATION NUMBER			DB	HGT	PER			
311138	ME	52313N	035357W	184	25	07 20 127	1967	C13	012	2889	15	23	1	4		X1	0012
				WATER		WIND	BARO- METER		AIR TEMP. °C		VSL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. MIL	DIR.	SPED OF FORCE	METER (mm)	DRY BULB	WET BULB							
								26	508	250	118	096	7	14			

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. $\pm 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	C CODE
		STD	0000	1166	3485	2655	0014903	0000	14961								
127		OBS	0000	1166	34847	2655			14961								
		STD	0010	1126	3484	2662	0014302	0015	14949								
127		OBS	0010	1126	34836	2662			14949								
		STD	0020	1058	3484	2675	0013129	0028	14926								
		STD	0030	0990	3485	2687	0011953	0041	14903								
127		OBS	0031	0983	34856	2689			14901								
		STD	0050	0852	3491	2714	0009441	0062	14856								
127		OBS	0051	0846	34908	2715			14854								
		STD	0075	0733	3492	2733	0007686	0084	14815								
127		OBS	0077	0726	34919	2734			14812								
		STD	0100	0679	3493	2741	0006910	0102	14798								
127		OBS	0103	0674	34932	2742			14796								
		STD	0125	0653	3494	2746	0006534	0119	14792								
		STD	0150	0634	3494	2748	0006326	0135	14788								
127		OBS	0154	0631	34942	2749			14788								
		STD	0200	0613	3495	2751	0006094	0166	14788								
127		OBS	T0206	0611	34945	2752			14788								
		STD	0250	0601	3496	2754	0005901	0196	14792								
		STD	0300	0586	3498	2758	0005632	0225	14794								
		STD	0400	0546	3499	2763	0005189	0279	14795								
127		OBS	T0410	0541	34992	2764			14794								
		STD	0500	0490	3498	2769	0004700	0328	14788								
127		OBS	0511	0485	34976	2769			14788								
		STD	0600	0457	3497	2772	0004469	0374	14791								
127		OBS	T0610	0454	34972	2773			14791								
		STD	0700	0432	3496	2774	0004374	0418	14797								
		STD	0800	0410	3495	2776	0004287	0462	14804								
127		OBS	0815	0407	34947	2776			14806								
		STD	0900	0392	3494	2777	0004212	0504	14813								
		STD	1000	0377	3494	2778	0004146	0546	14824								
127		OBS	T1018	0375	34940	2779			14826								
		STD	1100	0365	3495	2780	0004059	0587	14836								
		STD	1200	0354	3495	2782	0003958	0627	14848								
		STD	1300	0346	3496	2783	0003890	0666	14861								
		STD	1400	0339	3497	2784	0003839	0705	14875								
		STD	1500	0336	3497	2785	0003827	0743	14891								
127		OBS	T1520	0335	34973	2785			14894								

TABLE III.—Continued

REFERENCE SHIP CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	WATER SQUARE 10'	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER
					10'	1'	MO. DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	PER	SEA			
311138	ME	52279N	035206W	184	25	07	21 133	1967	C13	013	2926	15	16	1	4	X1	6 6	0013
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
				COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	METER (mm)	DRY BULB	WET BULB	WIL CODE							
				17	516	179	139	128	7	14								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S CTD
		STD	0000	1172	3484	2654	0015055	0000	14963								
133		OBS	0000	1172	34841	2654			14963								
		STD	0010	1075	3483	2671	0013467	0014	14930								
133		OBS	0010	1075	34830	2671			14930								
		STD	0020	1024	3485	2681	0012488	0027	14914								
		STD	0030	0969	3487	2692	0011467	0039	14896								
133		OBS	0033	0952	34874	2695			14890								
		STD	0050	0847	3491	2715	0009359	0060	14854								
133		OBS	0052	0836	34910	2717			14850								
		STD	0075	0724	3493	2735	0007474	0081	14811								
133		OBS	0078	0715	34932	2736			14808								
		STD	0100	0690	3495	2741	0006937	0099	14802								
133		OBS	0104	0686	34948	2742			14801								
		STD	0125	0672	3496	2745	0006634	0116	14800								
		STD	0150	0655	3497	2748	0006375	0132	14797								
133		OBS	0155	0652	34974	2748			14797								
		STD	0200	0624	3496	2751	0006123	0164	14793								
133		OBS	T0208	0620	34958	2751			14792								
		STD	0250	0610	3496	2753	0005986	0194	14795								
		STD	0300	0596	3497	2756	0005818	0223	14798								
		STD	0400	0558	3499	2762	0005369	0279	14800								
133		OBS	T0412	0553	34988	2762			14800								
		STD	0500	0508	3498	2767	0004889	0331	14796								
133		OBS	0513	0502	34983	2768			14795								
		STD	0600	0474	3498	2771	0004607	0378	14798								
133		OBS	T0613	0470	34982	2772			14799								
		STD	0700	0445	3497	2774	0004425	0423	14803								
		STD	0800	0420	3496	2776	0004302	0467	14809								
133		OBS	0817	0416	34962	2776			14810								
		STD	0900	0399	3495	2777	0004221	0509	14817								
		STD	1000	0382	3495	2778	0004176	0551	14826								
133		OBS	T1026	0378	34942	2778			14829								
		STD	1100	0373	3495	2779	0004144	0593	14839								
		STD	1200	0367	3495	2780	0004110	0634	14853								
		STD	1300	0361	3496	2782	0004073	0675	14867								
		STD	1400	0355	3497	2783	0004032	0716	14882								
		STD	1500	0348	3497	2784	0003989	0756	14896								
133		OBS	T1550	0345	34974	2784			14903								

REFERENCE SHIP CODE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	WATER SQUARE 10'	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER	
					10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	PER	SEA				
311138	ME	52432N	035263W	184	25	07	22 134	1967	C13	014	3567	14	24	5	3	X1	2 7	0014	
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	METER (mm)	DRY BULB	WET BULB	WIL CODE								
							24	517	203	118	105	7	14						

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S CTD
		STD	0000	1105	3480	2663	0014172	0000	14939								
134		OBS	0000	1105	34801	2663			14939								
		STD	0010	1104	3480	2663	0014185	0014	14940								
134		OBS	0010	1104	34800	2663			14940								
		STD	0020	1091	3481	2666	0013911	0028	14937								
134		OBS	0026	1056	34816	2673			14926								
		STD	0030	1001	3484	2684	0012206	0041	14907								
134		OBS	0041	0882	34892	2708			14866								
		STD	0050	0841	3491	2716	0009240	0063	14852								
134		OBS	0062	0789	34942	2726			14834								
		STD	0075	0731	3500	2740	0007049	0083	14815								
134		OBS	0083	0705	35024	2745			14806								
		STD	0100	0698	3505	2748	0006270	0100	14807								
134		OBS	0120	0690	35061	2750			14807								
		STD	0125	0688	3506	2750	0006095	0115	14807								
		STD	0150	0679	3506	2752	0006000	0130	14808								
134		OBS	0159	0676	35064	2752			14808								
		STD	0200	0670	3507	2754	0005910	0160	14812								
		STD	0250	0662	3507	2755	0005846	0189	14818								
		STD	0300	0654	3508	2757	0005773	0219	14823								
134		OBS	T0325	0650	35083	2757			14825								
		STD	0400	0547	3497	2762	0005350	0274	14795								
134		OBS	0407	0539	34967	2762			14793								
134		OBS	T0491	0460	34920	2768			14774								
		STD	0500	0459	3492	2768	0004756	0325	14775								
		STD	0600	0449	3495	2772	0004538	0371	14787								
134		OBS	0661	0438	34968	2774			14793								
		STD	0700	0426	3496	2775	0004288	0415	14795								
		STD	0800	0399	3495	2777	0004187	0458	14800								
134		OBS	T0838	0390	34940	2777			14802								
		STD	0900	0385	3494	2778	0004138	0499	14810								
		STD	1000	0376	3495	2779	0004093	0540	14823								
		STD	1100	0367	3495	2780	0004053	0581	14836								
		STD	1200	0358	3495	2781	0003999	0621	14849								
		STD	1300	0349	3496	2782	0003952	0661	14863								
134		OBS	T1359	0344	34958	2783			14870								

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	V. ESDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF TEMP.	WAVE OBSERVATIONS			WEA- THIR CODE	CLOUD CODES	HODC STATION NUMBER	
					STATION TIME (GMT)				CRUISE NO.	STATION NUMBER			DR.	HGT	PER				SEA
					10'	1'	MO DAT HR 1/10												
311138	ME	52491N	035359W	184	25	07	23 165	1967	C13 015	3018	12	26	4	4		X4	X9	0015	
					WATER		WIND		AIR TEMP °C		NO. OF CLIFFS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS- MIT	DIR.	SPEED OR FORCE	BARO- METER (MMHG)	DRY BULB									WET BULB
							22	515	112	117	117	5	14						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH M	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY M/S	O ₂ M/L	PO ₂ -P PG - M/L	TOTAL-P PG - M/L	NO ₂ -N PG - M/L	NO ₃ -N PG - M/L	SiO ₂ -S PG - M/L	pH	S C			
		STD	0000	1049	3487	2679	0012689	0000	14920										
165	OBS	0000	1049	34873	2679				14920										
165	OBS	0005	1047	34875	2679				14920										
	STD	0010	1044	3487	2679	0012655	0013	14920											
	STD	0020	1039	3487	2680	0012604	0025	14920											
165	OBS	0020	1039	34868	2680				14920										
	STD	0030	1003	3486	2686	0012091	0038	14908											
165	OBS	0036	0975	34854	2690				14899										
	STD	0050	0884	3486	2706	0010241	0060	14868											
165	OBS	0055	0854	34865	2711				14857										
165	OBS	0072	0763	34962	2732				14826										
	STD	0075	0756	3497	2734	0007618	0082	14824											
	STD	0100	0710	3501	2743	0006730	0100	14811											
165	OBS	0110	0698	35021	2746				14808										
	STD	0125	0694	3503	2747	0006406	0117	14809											
165	OBS	T0148	0688	35046	2749				14811										
	STD	0150	0688	3505	2749	0006236	0132	14811											
	STD	0200	0680	3506	2751	0006129	0163	14816											
	STD	0250	0673	3507	2753	0006012	0194	14822											
165	OBS	T0291	0667	35082	2755				14826										
	STD	0300	0664	3508	2755	0005909	0224	14827											
165	OBS	0361	0629	35042	2757				14822										
	STD	0400	0581	3500	2760	0005557	0281	14809											
165	OBS	T0439	0541	34977	2763				14799										
	STD	0500	0510	3497	2766	0005018	0334	14796											
165	OBS	0592	0469	34968	2771				14795										
	STD	0600	0466	3497	2771	0004622	0382	14795											
	STD	0700	0432	3496	2774	0004411	0427	14797											
165	OBS	T0745	0419	34950	2775				14799										
	STD	0800	0405	3495	2776	0004228	0470	14802											
	STD	0900	0384	3495	2778	0004080	0512	14810											
	STD	1000	0370	3495	2780	0004011	0552	14821											
	STD	1100	0363	3495	2780	0004013	0592	14835											
	STD	1200	0362	3495	2780	0004092	0633	14851											
165	OBS	T1207	0362	34947	2780				14852										

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	V. ESDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF TEMP.	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODES	HODC STATION NUMBER		
					10'	1'	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DR.	HG				PER	SEA
311138	ME	52458N	035022W	184	25	07	24	134	1967	C13	016	3292	17	21	2	4		X4	X9	0016		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY m/s	O ₂ m/l	PO ₂ -P pg - m/l	TOTAL-P pg - m/l	NO ₂ -N pg - m/l	NO ₃ -N pg - m/l	SiO ₂ -S pg - m/l	pH	S C						
		STD	0000	1101	3478	2662	0014258	0000	14937													
134	OBS	0000	1101	34780	2662				14937													
	STD	0010	1097	3478	2663	0014212	0014	14938														
134	OBS	0012	1096	34778	2663				14938													
	STD	0020	1085	3479	2666	0013982	0028	14935														
	STD	0030	1071	3480	2669	0013693	0042	14932														
134	OBS	0037	1061	34803	2671				14929													
134	OBS	0049	0789	34925	2725				14832													
	STD	0050	0785	3493	2726	0008317	0064	14831														
	STD	0075	0708	3493	2737	0007249	0084	14805														
134	OBS	0086	0692	34933	2740				14801													
	STD	0100	0700	3497	2742	0006893	0101	14807														
134	OBS	0117	0704	35002	2744				14811													
	STD	0125	0697	3501	2745	0006595	0118	14810														
	STD	0150	0679	3503	2749	0006246	0134	14807														
134	OBS	0167	0672	35045	2751				14808													
	STD	0200	0673	3507	2753	0005950	0165	14814														
134	OBS	T0221	0674	35079	2754				14818													
	STD	0250	0654	3506	2755	0005846	0194	14814														
	STD	0300	0619	3504	2758	0005610	0223	14808														
	STD	T0400	0548	3499	2763	0005214	0277	14796														
134	OBS	T0434	0524	34970	2764				14791													
	STD	0500	0468	3493	2768	0004810	0327	14778														
134	OBS	0539	0449	34921	2769				14777													
	STD	0600	0450	3495	2771	0004552	0374	14788														
134	OBS	T0644	0450	34964	2773				14795													
	STD	0700	0432	3495	2773	0004448	0419	14797														
	STD	0800	0405	3494	2775	0004302	0463	14802														
134	OBS	0869	0391	34932	2776				14808													
	STD	0900	0387	3493	2777	0004256	0505	14811														
	STD	1000	0376	3493	2778	0004215	0548	14823														
134	OBS	T1096	0366	34929	2779				14835													
	STD	1100	0366	3493	2779	0004182	0590	14836														
	STD	1200	0356	3493	2780	0004145	0631	14848														
	STD	1300	0347	3493	2781	0004116	0673	14861														
	STD	1400	0339	3494	2782	0004022	0713	14875														
	STD	1500	0332	3494	2783	0004012	0754	14889														
134	OBS	T1690	0320	34958	2785				14916													

TABLE III.—Continued

MESSAGING TIME HR	CAST NO	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND RAL-7-218*	S.D.P. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	C C
		STD	0000	1078	3481	2669	0013628	0000	14930								
133		OBS	0000	1078	34812	2669			14930								
		STD	0010	1076	3481	2669	0013662	0014	14930								
133		OBS	0010	1076	34806	2669			14930								
		STD	0020	1062	3482	2672	0013337	0027	14927								
		STD	0030	1018	3484	2681	0012514	0040	14913								
133		OBS	0032	1005	34839	2684			14909								
		STD	0050	0816	3486	2716	0009245	0062	14842								
133		OBS	0054	0785	34868	2721			14831								
		STD	0075	0695	3491	2738	0007231	0082	14800								
133		OBS	0080	0681	34911	2740			14795								
		STD	0100	0661	3492	2743	0006778	0100	14790								
133		OBS	0107	0654	34918	2744			14789								
		STD	0125	0635	3492	2746	0006473	0117	14784								
		STD	0150	0616	3492	2749	0006275	0132	14781								
133		OBS	0161	0610	34915	2749			14780								
		STD	0200	0609	3494	2751	0006080	0163	14787								
133		OBS	T0215	0608	34945	2752			14789								
		STD	0250	0594	3495	2754	0005887	0193	14789								
		STD	0300	0575	3495	2757	0005717	0222	14789								
		STD	0400	0540	3496	2762	0005338	0278	14792								
133		OBS	T0432	0530	34963	2763			14793								
		STD	0500	0511	3498	2767	0004956	0329	14797								
133		OBS	0541	0497	34986	2769			14798								
		STD	0600	0472	3498	2771	0004597	0377	14797								
133		OBS	T0652	0453	34968	2772			14798								
		STD	0700	0438	3496	2774	0004445	0422	14800								
		STD	0800	0411	3494	2775	0004373	0466	14805								
133		OBS	0883	0393	34937	2776			14811								
		STD	0900	0391	3494	2777	0004230	0509	14813								
		STD	1000	0378	3494	2778	0004165	0551	14824								
		STD	1100	0367	3494	2779	0004120	0592	14836								
133		OBS	T1122	0365	34944	2780			14839								
		STD	1200	0357	3495	2781	0004009	0633	14849								
		STD	1300	0348	3495	2782	0003981	0673	14862								
		STD	1400	0340	3496	2784	0003888	0712	14876								
		STD	1500	0334	3496	2784	0003890	0751	14890								
133		OBS	T1749	0322	34977	2787			14927								

WIND REP ID NO.		SHIP CODE		LATITUDE		LONGITUDE		HAZARDED SQUARE		STATION TIME		OBSERVATIONS		DEPTH		WAVE		DATE		WATHER		* WIND		WIND			
QUARTZ CODE	CRUISE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
311139	ME	52112N				035268W				184	25	07	26	137	1967	C13	018			3018	1	34	2	4			
						</																					

TABLE III.—Continued

REFERENCE SHIP ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E W	MARSDEN SQUARE 10' 1"	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER		
						CRUISE NO.	STATION NUMBER	DR		HC	PER			SEA							
311138	ME	52258N	035115W		184	25	07	27	127	1967	C13	019	3109	16	34	1	2		X2	7 8	0019
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D.D. DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P % - ml/l	TOTAL-P % - ml/l	NO ₃ -N % - ml/l	NO ₂ -N % - ml/l	SiO ₂ -S % - ml/l	pH	S °C				
		STD	0000	1152	3485	2658	0014662	0000	14956												
127	OBS	0000	1152	34846	2658				14956												
	STD	0010	1113	3484	2665	0014046	0014		14944												
127	OBS	0011	1109	34837	2665				14943												
	STD	0020	1082	3484	2670	0013536	0028		14935												
	STD	0030	1032	3485	2680	0012643	0041		14918												
127	OBS	0032	1020	34855	2682				14915												
	STD	0050	0864	3490	2712	0009657	0064		14860												
127	OBS	0052	0850	34901	2714				14856												
	STD	0075	0745	3492	2731	0007874	0085		14819												
127	OBS	0079	0732	34917	2733				14815												
	STD	0100	0688	3491	2738	0007216	0104		14801												
127	OBS	0105	0679	34902	2739				14798												
	STD	0125	0644	3490	2744	0006730	0122		14788												
	STD	0150	0615	3489	2747	0006442	0138		14780												
127	OBS	0158	0609	34890	2748				14779												
	STD	0200	0609	3492	2750	0006229	0170		14786												
127	OBS	0211	0609	34927	2750				14788												
	STD	0250	0590	3494	2754	0005948	0200		14787												
	STD	0300	0567	3495	2757	0005654	0229		14786												
	STD	0400	0526	3497	2764	0005129	0283		14786												
127	OBS	T0425	0516	34970	2765				14786												
	STD	0500	0490	3497	2768	0004775	0333		14788												
127	OBS	0525	0481	34965	2769				14788												
	STD	0600	0454	3496	2772	0004530	0379		14790												
127	OBS	T0628	0445	34955	2772				14790												
	STD	0700	0425	3494	2773	0004439	0424		14794												
	STD	0800	0402	3493	2775	0004341	0468		14801												
127	OBS	0839	0394	34928	2776				14804												
	STD	0900	0386	3493	2776	0004274	0511		14811												
	STD	1000	0373	3492	2777	0004231	0554		14822												
127	OBS	T1050	0368	34921	2778				14828												
	STD	1100	0363	3493	2779	0004183	0596		14834												
	STD	1200	0355	3493	2780	0004110	0637		14848												
	STD	1300	0349	3494	2781	0004067	0678		14862												
	STD	1400	0345	3495	2782	0004038	0719		14877												
	STD	1500	0342	3496	2783	0004020	0759		14893												
127	OBS	T1577	0342	34962	2784				14906												

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH M	#SIDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DR	PER	SEA			
311138	ME	52349N	035014W		184	25 07 28 127 1967		C13	020	2743	16	18	2 2		X4	X 9	0020
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D.D. DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P % - ml/l	TOTAL-P % - ml/l	NO ₃ -N % - ml/l	NO ₂ -N % - ml/l	SiO ₂ -S % - ml/l	pH	S °C
		STD	0000	1133	3477	2656	0014865	0000	14949								
127	OBS	0000	1133	34773	2656				14949								
	STD	0010	1126	3478	2658	0014722	0015		14948								
127	OBS	0011	1123	34780	2658				14947								
	STD	0020	1033	3482	2677	0012858	0029		14917								
	STD	0030	0947	3486	2695	0011191	0041		14888								
127	OBS	0032	0932	34869	2698				14883								
	STD	0050	0825	3490	2718	0009079	0061		14846								
127	OBS	0053	0809	34905	2721				14840								
	STD	0075	0704	3493	2738	0007203	0081		14804								
127	OBS	0080	0690	34932	2740				14799								
	STD	0100	0673	3495	2744	0006682	0099		14796								
127	OBS	0105	0669	34954	2745				14795								
	STD	0125	0656	3496	2747	0006424	0115		14793								
	STD	0150	0646	3497	2749	0006258	0131		14793								
127	OBS	0159	0645	34981	2750				14795								
	STD	0200	0658	3503	2752	0006045	0162		14807								
127	OBS	T0212	0659	35046	2753				14810								
	STD	0250	0620	3502	2756	0005698	0191		14800								
	STD	0300	0575	3498	2759	0005493	0219		14790								
	STD	0400	0502	3494	2765	0005024	0272		14776								
127	OBS	T0419	0491	34935	2766				14775								
	STD	0500	0454	3493	2769	0004638	0320		14773								
127	OBS	0521	0446	34930	2770				14773								
	STD	0600	0425	3493	2773	0004413	0365		14777								
127	OBS	T0624	0419	34924	2773				14779								
	STD	0700	0403	3492	2774	0004331	0409		14784								
	STD	0800	0385	3491	2775	0004291	0452		14793								
127	OBS	0835	0380	34908	2776				14797								
	STD	0900	0373	3491	2776	0004270	0495		14805								
	STD	1000	0363	3490	2777	0004261	0537		14817								
127	OBS	T1046	0359	34901	2777				14823								
	STD	1100	0355	3490	2778	0004242	0580		14831								
	STD	1200	0347	3491	2779	0004176	0622		14844								
	STD	1300	0342	3492	2780	0004150	0664		14859								
	STD	1400	0337	3492	2781	0004122	0705		14874								
	STD	1500	0334	3493	2782	0004110	0746		14889								
127	OBS	T1571	0333	34934	2782				14901								

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/15'	LONGITUDE 1°/15'	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			CLOUD CODES	WMO CODE	NODC STATION NUMBER	
							CRUISE NO.	STATION NUMBER			DR.	HGT.	PER.				
311138	ME	52525N	035510W	184	25 07 29 163	1967	C13	021	365 f	16	06	3	3	X1	4	0021	
WATER	WIND	BARO- METER	AB TEMP. °C	VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	DR.	DR.	DR.	DR.	DR.	DR.											
03	S13	102	118	104	6	14											
MESSING TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTM, m. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	S C
		STD	0000	1097	3483	2667	0013842	0000	14937								
163		OBS	0000	1097	34827	2667			14937								
		STD	0010	1094	3483	2667	0013821	0014	14937								
163		OBS	0012	1088	34826	2668			14935								
		STD	0020	1028	3487	2682	0012406	0027	14916								
		STD	0030	0952	3491	2698	0010901	0039	14890								
163		OBS	0034	0921	34926	2705			14880								
		STD	0050	0790	3496	2728	0008128	0058	14833								
163		OBS	0053	0772	34973	2731			14827								
		STD	0075	0715	3508	2748	0006235	0076	14810								
163		OBS	0080	0705	35092	2750			14807								
		STD	0100	0677	3509	2755	0005663	0090	14799								
163		OBS	0107	0671	35095	2755			14798								
		STD	0125	0673	3512	2757	0005453	0104	14802								
		STD	0150	0675	3514	2758	0005376	0118	14807								
163		OBS	0159	0676	35144	2759			14809								
		STD	0200	0675	3515	2760	0005350	0145	14816								
163		OBS	T0211	0674	35157	2760			14817								
		STD	0250	0670	3515	2760	0005392	0172	14822								
		STD	0300	0660	3514	2760	0005410	0199	14826								
		STD	0400	0621	3511	2763	0005262	0252	14827								
163		OBS	T0419	0611	35104	2764			14826								
		STD	0500	0557	3508	2769	0004790	0302	14817								
163		OBS	0517	0545	35068	2770			14815								
		STD	0600	0475	3502	2774	0004337	0348	14799								
163		OBS	T0622	0460	35012	2775			14796								
		STD	0700	0434	3497	2775	0004323	0391	14798								
		STD	0800	0409	3494	2775	0004349	0434	14804								
163		OBS	0823	0404	34931	2775			14805								
		STD	0900	0397	3493	2776	0004353	0478	14815								
		STD	1000	0389	3494	2777	0004334	0521	14829								
163		OBS	T1063	0383	34937	2778			14837								
		STD	1100	0380													
		STD	1200	0371													
		STD	1300	0362													
		STD	1400	0353													
		STD	1500	0344													
163		OBS	1629	0332													

REFERENCE	SHIP CODE	LATITUDE 1°/15'	LONGITUDE 1°/15'	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			CLOUD CODES	WMO CODE	NODC STATION NUMBER	
							CRUISE NO.	STATION NUMBER			DR.	HGT.	PER.				
311138	ME	52425N	035355W	184	25 07 30 140	1967	C13	022	3749	15	03	2	3	X1	4	0022	
WATER	WIND	BARO- METER	AB TEMP. °C	VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	DR.	DR.	DR.	DR.	DR.	DR.											
35	S07	169	111	088	7	14											
MESSING TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTM, m. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	S C
		STD	0000	1137	3478	2655	0014891	0000	14950								
140		OBS	0000	1137	34779	2655			14950								
140		OBS	0009	1129	34775	2657			14949								
		STD	0010	1122	3478	2658	0014645	0015	14946								
		STD	0020	1055	3482	2674	0013226	0029	14925								
		STD	0029	0994	34852	2687			14905								
140		OBS	0030	0987	3486	2688	0011831	0041	14902								
		STD	0049	0861	34910	2713			14859								
140		OBS	0050	0854	3491	2714	0009418	0062	14857								
		STD	0074	0725	34952	2737			14812								
140		OBS	0075	0722	3495	2737	0007283	0083	14811								
		STD	0097	0665	34962	2746			14792								
140		OBS	0100	0665	3497	2746	0006428	0100	14793								
		STD	0125	0665	3500	2749	0006244	0116	14797								
140		OBS	0147	0665	35016	2750			14801								
		STD	0150	0663	3502	2750	0006138	0132	14801								
140		OBS	0196	0640	35012	2753			14799								
		STD	0200	0639	3501	2753	0005930	0162	14799								
		STD	0250	0629	3501	2754	0005926	0192	14804								
		STD	0300	0612	3500	2756	0005831	0221	14805								
		STD	0400	0557	3498	2762	0005371	0277	14799								
140		OBS	T0402	0556	34984	2762			14799								
140		OBS	0492	0483	34959	2768			14784								
		STD	0500	0480	3496	2769	0004729	0328	14784								
140		OBS	T0593	0452	34962	2772			14788								
		STD	0600	0450	3496	2772	0004483	0374	14788								
		STD	0700	0420	3495	2775	0004307	0418	14792								
140		OBS	0789	0399	34940	2776			14798								
		STD	0800	0398	3494	2776	0004220	0460	14799								
		STD	0900	0385	3494	2778	0004144	0502	14810								
140		OBS	T0990	0374	34943	2779			14821								
		STD	1000	0373	3494	2779	0004083	0543	14822								
		STD	1100	0362	3495	2780	0004016	0584	14834								
		STD	1200	0352	3495	2782	0003964	0624	14847								
		STD	1300	0343	3495	2783	0003920	0663	14860								
		STD	1400	0335	3495	2784	0003885	0702	14873								
		STD	1500	0328	3496	2784	0003852	0741	14887								
140		OBS	T1508	0327	34955	2785			14888								

TABLE III.—Continued

REFERENCE CTRY ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER															
					10'	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT.	PER																		
311138	ME	52305N	035550W	184	25	07	31 137	1967	C13	023	3018	14	02	1	4	X8	6 7	0023															
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	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 ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -S μg - ml/l	pH	S.C.																
				WATER				WIND				BARO- METER				SPECIAL OBSERVATIONS																	
				COLOR CODE	TEMP. °C	DR.	SPEED OF FORCE	DIR.	WET BULB	DRY BULB	WET BULB	NO. OBS. DEPTH	VSL CODE																				
				15	S11	207	111	106	7	14																							
		STD	0000	1133	3478	2656	0014813	0000	14949																								
137		OBS	0000	1133	34780	2656			14949																								
137		OBS	0009	1128	34778	2657			14948																								
		STD	0010	1128	3478	2657	0014750	0015	14949																								
		STD	0020	1105	3479	2662	0014300	0029	14942																								
137		OBS	0029	1052	34823	2674			14925																								
		STD	0030	1039	3483	2677	0012907	0043	14921																								
137		OBS	0045	0881	34918	2710			14866																								
		STD	0050	0851	3493	2716	0009240	0065	14856																								
137		OBS	0068	0768	34956	2731			14828																								
		STD	0075	0750	3496	2734	0007609	0086	14822																								
137		OBS	0090	0717	34965	2739			14812																								
		STD	0100	0701	3497	2741	0006906	0104	14807																								
		STD	0125	0673	3499	2747	0006424	0121	14800																								
137		OBS	0134	0667	34999	2748			14800																								
		STD	0150	0666	3501	2749	0006222	0137	14802																								
137		OBS	T0179	0665	35035	2752			14807																								
		STD	0200	0665	3504	2752	0006047	0167	14810																								
		STD	0250	0666	3506	2753	0006002	0198	14819																								
		STD	0300	0667	3508	2755	0005958	0227	14828																								
137		OBS	T0355	0668	35099	2756			14838																								
		STD	0400	0598	3501	2758	0005702	0286	14816																								
137		OBS	0443	0547	34955	2760			14802																								
		STD	0500	0510	3496	2765	0005092	0340	14796																								
137		OBS	T0528	0495	34961	2767			14795																								
		STD	0600	0472	3496	2770	0004723	0389	14797																								
		STD	0700	0442	3497	2774	0004449	0435	14801																								
137		OBS	0711	0439	34966	2774			14802																								
		STD	0800	0415	3496	2776	0004272	0478	14807																								
		STD	0900	0391	3495	2777	0004178	0520	14813																								
137		OBS	T0900	0391	34947	2777			14813																								
		STD	1000	0372	3495	2780	0004035	0562	14822																								
		STD	1100	0357	3495	2781	0003934	0601	14832																								
		STD	1200	0346	3495	2782	0003884	0640	14844																								
		STD	1300	0339	3495	2783	0003871	0679	14858																								
		STD	1400	0337	3495	2783	0003917	0718	14874																								
137		OBS	T1418	0337	34951	2783			14877																								

REFERENCE CTRY ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER															
					10'	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT.	PER																		
311138	ME	52395N	035329W	184	25	08	01 075	1967	C13	024	3292	13	12	3	4	X2	6 8	0024															
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	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 ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -S μg - ml/l	pH	S.C.																
				WATER				WIND				BARO- METER				SPECIAL OBSERVATIONS																	
				COLOR CODE	TEMP. °C	DR.	SPEED OF FORCE	DIR.	WET BULB	DRY BULB	WET BULB	NO. OBS. DEPTH	VSL CODE																				
				08	S20	169	100	100	6	14																							
		STD	0000	1080	3482	2669	0013603	0000	14930																								
		OBS	0000	1080	34820	2669			14930																								
		STD	0010	1078	3482	2669	0013596	0014	14931																								
075		OBS	0011	1078	34820	2669			14931																								
		STD	0020	1072	3482	2671	0013488	0027	14931																								
075		OBS	0027	1067	34825	2672			14930																								
		STD	0030	1017	3485	2682	0012395	0040	14913																								
075		OBS	0046	0828	34963	2722			14847																								
		STD	0050	0816	3497	2725	0008429	0061	14843																								
075		OBS	0066	0774	34995	2733			14830																								
		STD	0075	0756	3501	2737	0007321	0081	14825																								
075		OBS	0086	0736	35030	2741			14819																								
		STD	0100	0716	3504	2744	0006626	0098	14814																								
		STD	0125	0690	3504	2749	0006248	0114	14808																								
075		OBS	0127	0689	35045	2749			14808																								
		STD	0150	0681	3506	2751	0006049	0129	14809																								
075		OBS	T0166	0677	35063	2752			14810																								
		STD	0200	0677	3507	2753	0005982	0160	14815																								
		STD	0250	0678	3509	2754	0005961	0189	14824																								
		STD	0300	0678	3510</																												

TABLE IV.—Observed and interpolated oceanographic data from stations taken by USCGC CHINCOTEAGUE, at Ocean Station CHARLIE, 2 August—24 August 1967, prepared from NODC Listing No. 31-1143.

X STATION NO.	NODC REF. NO.	SHIP CODE	LATITUDE N	LONGITUDE W	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CAUSE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
311143	CC		52455N	035150W	184 25	08 02 126	1967	C14 001		3260	1	12	1		0091
* NOTE: THIS FORM IS FOR PLACING ELECTRONICALLY OBSERVED SERIAL DATA (NO. 00) NUMBERS ENTERED BY ARTIST/AL. WHEN THEY APPEAR.															
* 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 WATER COLOR TRANSL. DIR. SPEED OR FORCE BAROMETER DRY BALLS WET BALLS CODE NO. OF DEPTHS SPECIAL OBSERVATIONS															
11 515 251 122 100 8 10															
CAST TIME SURFACE DEPTH (m) T °C S ‰ SIGMA-T SPECIFIC VOLUME ANOMALY (σ _t) S.D. OF MEAN S.D. OF MEAN SOUND VELOCITY (m/sec) O ₂ ml/l PO ₂ -P TOTAL-P NO ₂ -N NO ₃ -N SiO ₂ -Si pH															
126	STD	0000	1131	3490	2658	0014617	0000	14948							
126	OBS	0000	1131	34802	2658			14748							
126	STD	0010	1125	3481	2660	0014669	0014	14748							
126	OBS	0010	1125	34811	2660			14948							
126	STD	0020	1059	3493	2674	0013188	0028	14926							
126	STD	0030	0985	3486	2689	0011873	0040	14901							
126	OBS	0031	0977	34859	2690			14999							
126	OBS	0049	0822	34897	2718			14844							
126	STD	0050	0816	3490	2719	0008958	0061	14842							
126	STD	0075	0704	3494	2739	0007136	0081	14804							
126	OBS	0075	0704	34940	2739			14804							
126	OBS	0098	0669	34971	2746			14794							
126	STD	0100	0668	3497	2746	0006455	0098	14794							
126	STD	0125	0658	3498	2748	0006303	0114	14794							
126	OBS	0146	0653	34995	2750			14796							
126	STD	0150	0654	3500	2750	0006133	0130	14797							
126	OBS	0195	0654	35051	2754			14805							
126	STD	0200	0650	3505	2755	0005812	0160	14804							
126	STD	0250	0613	3502	2757	0005597	0188	14797							
126	STD	0300	0580	3500	2760	0005404	0216	14792							
126	OBS	T0386	0533	34979	2764			14787							
126	STD	0400	0527	3498	2765	0005051	0268	14787							
126	OBS	0485	0495	34977	2768			14788							

REFERENCE SHIP NO.	SHIP CODE	LATITUDE N	LONGITUDE W	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CAUSE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
311143	CC		52435N	035252W	184 25	08 03 159	1967	C14 002		3566	16	18	4	0002
WATER COLOR TRANSL. DIR. SPEED OR FORCE BAROMETER DRY BALLS WET BALLS CODE NO. OF DEPTHS SPECIAL OBSERVATIONS														
17 525 081 139 133 4 14														

MESSAGE NO.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY (σ _t)	S.D. OF MEAN	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - 01/1	TOTAL-P pg - 01/1	NO ₂ -N pg - 01/1	NO ₃ -N pg - 01/1	SiO ₂ -Si pg - 01/1	pH
		STD	0000	1141	3475	2652	0015175	0000	14951							
		OBS	0000	1141	34750	2652			14951							
		STD	0010	1138	3476	2654	0015050	0015	14952							
159		OBS	0010	1138	34763	2654			14952							
		STD	0020	1122	3477	2658	0014744	0030	14948							
		STD	0030	1106	3479	2662	0014344	0045	14944							
159		OBS	0032	1103	34802	2664			14944							
159		OBS	0049	0888	34902	2708			14869							
		STD	0050	0881	3490	2709	0009884	0069	14867							
		STD	0075	0749	3494	2732	0007729	0091	14821							
159		OBS	0075	0749	34942	2732			14821							
		STD	0100	0698	3495	2740	0007014	0109	14806							
159		OBS	0101	0696	34952	2741			14805							
		STD	0125	0675	3497	2745	0006599	0126	14801							
		STD	0150	0658	3499	2749	0006295	0142	14798							
159		OBS	0150	0658	34986	2749			14798							
		STD	0200	0640	3499	2751	0006134	0173	14800							
159		OBS	T0201	0640												
		STD	0250	0602	3499	2756	0005705	0203	14793							
		STD	0300	0569	3499	2760	0005351	0231	14788							
159		OBS	T0394	0522												
		STD	0400	0521	3499	2766	0004882	0282	14785							
159		OBS	0488	0496	34992	2769			14789							
		STD	0500	0489	3499	2770	0004614	0329	14788							
159		OBS	T0586	0449	34968	2773			14785							
		STD	0600	0445	3497	2773	0004372	0374	14786							
		STD	0700	0422	3496	2775	0004241	0417	14793							
159		OBS	0784	0405	34957	2777			14800							
		STD	0800	0402	3496	2777	0004148	0459	14801							
		STD	0900	0386	3495	2778	0004074	0500	14811							
159		OBS	T0993	0373	34949	2780			14821							
		STD	1000	0372	3495	2780	0004020	0541	14822							
		STD	1100	0360	3495	2781	0003962	0581	14833							
		STD	1200	0350	3495	2782	0003925	0620	14846							
		STD	1300	0343	3496	2783	0003846	0659	14860							
		STD	1400	0337	3497	2785	0003777	0697	14874							
		STD	1500	0334	3498	2786	0003743	0735	14890							
159		OBS	T1563	0333	34993	2787			14900							

TABLE IV—Continued

REFERENCE CTRY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	SAL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODE STATION NUMBER					
					10'	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR				HGT	PER	SEA		
311143	CC	52451N	035352W	184	25	08	10	122	1967	C14	007	3658	15	30	1			7 6	0007					
				WATER		WIND		BARO- METER (mmHg)		AIR TEMP. °C		VSL CODE		SPECIAL OBSERVATIONS										
				COLOR CODE	TEMP °C	DIR	SPEED OR FORCE			DRY BULB	WET BULB													
				26	S08	237	100	089	7	14														
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Δ D DYN. M. E 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 ₂ -L μg - ml/l	pH						
		STD	0000	1130	3481	2659		0014569		0000	14948													
122		OBS	0000	1130	34806	2659		0014569		0000	14948													
		STD	0010	1127	3479	2658		0014696		0015	14948													
122		OBS	0010	1127	34785	2658					14948													
		STD	0020	1111	3480	2662		0014330		0029	14944													
		STD	0030	1095	3482	2666		0013922		0043	14941													
122		OBS	0030	1095	34821	2666					14941													
		STD	0050	0926	3486	2699		0010910		0068	14883													
122		OBS	0050	0926	34859	2699					14883													
		STD	0075	0781	3491	2725		0008453		0092	14833													
122		OBS	0075	0781	34905	2725					14833													
		STD	0100	0711	3493	2737		0007316		0112	14810													
122		OBS	0100	0711	34933	2737					14810													
		STD	0125	0642	3489	2743		0006764		0130	14787													
		STD	0150	0607	3489	2747		0006386		0146	14777													
122		OBS	0150	0607	34886	2747					14777													
		STD	0200	0644	3498	2750		0006252		0178	14801													
122		OBS	T0201	0645	34980	2750					14802													
		STD	0250	0594	3496	2755		0005827		0208	14789													
		STD	0300	0551	3494	2758		0005523		0236	14780													
		STD	0400	0494	3489	2762		0005286		0290	14772													
122		OBS	T0405	0492	34890	2762					14772													
		STD	0500	0475	3493	2767		0004893		0341	14781													
122		OBS	0504	0474	34932	2767					14782													
		STD	0600	0450	3494	2771		0004631		0389	14788													
122		OBS	0606	0449	34944	2771					14788													
		STD	0700	0425	3493	2773		0004514		0435	14794													
		STD	0800	0404	3493	2775		0004364		0479	14802													
122		OBS	0808	0402	34925	2775					14802													
		STD	0900	0388	3493	2776		0004268		0522	14812													
		STD	1000	0374	3493	2778		0004191		0564	14822													
122		OBS	T1011	0373	34932	2778					14824													
		STD	1100	0363	3493	2779		0004116		0606	14835													
		STD	1200	0353	3494	2780		0004071		0647	14847													
		STD	1300	0345	3494	2781		0004040		0687	14861													
		STD	1400	0339	3494	2782		0004030		0728	14875													
		STD	1500	0336	3494	2783		0004054		0768	14890													
122		OBS	T1518	0335	34941	2783					14893													

STATION NUMBER	DATE TIME	LATITUDE	LONGITUDE	HARDEN SQUARE	STATION TIME	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	SAL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODE	WDC STATION NUMBER
							CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
311143	CC	52470N	035280W	194	25 09 11 124	1967	C14	004	3659	1	18	1			15	0004
NOTES: WHEN USING TEMPLATE FOR READING, ELECTRONICALLY OBSERVED DATA SHOWN IN READING BARRED BY APOSTROPHES, WHEN NOT APPLICABLE																
STATION NUMBER	DATE TIME	LATITUDE	LONGITUDE	HARDEN SQUARE	STATION TIME	YEAR	WIND		BAROMETER NO.	SPEED OF WIND	AIR TEMPERATURE °C	WET BULB DEW POINT °C	HUMIDITY % RELATIVE	SPECIAL OBSERVATIONS	WDC STATION NUMBER	
							DIR	SPEED								
							19	520	213	128	122	7	14			
STATION NUMBER	DATE TIME	LATITUDE	LONGITUDE	HARDEN SQUARE	STATION TIME	YEAR	WIND DIR	WIND SPEED	BAROMETER NO.	SPEED OF WIND	AIR TEMPERATURE °C	WET BULB DEW POINT °C	HUMIDITY % RELATIVE	SPECIAL OBSERVATIONS	WDC STATION NUMBER	
124		STD	0000	1140	3478	2655			0014952	0000	14951					
		OBS	0000	1140	34779	2655					14951					
		STD	0010	1137	3480	2658			0014668	0014	14949					
124		OBS	0012	1128	34799	2659					14949					
		STD	0020	1119	3479	2660			0014555	0029	14947					
		STD	0030	1108	3479	2661			0014440	0043	14945					
124		OBS	0033	1105	34774	2661					14944					
		STD	0050	0952	3484	2693			0011447	0069	14892					
124		OBS	0050	0952	34842	2693					14892					
		STD	0075	0736	3489	2730			0007917	0094	14915					
124		OBS	0075	0736	34893	2730					14915					
		STD	0100	0693	3493	2740			0007094	0112	14903					
124		OBS	0100	0693	34932	2740					14903					
		STD	0125	0665	3494	2744			0006711	0130	14796					
		STD	0150	0648	3494	2747			0006492	0146	14794					
124		OBS	0151	0643	34944	2747					14794					
		STD	0200	0651	3501	2751			0006109	0178	14804					
124		OBS	T0201	0651	35011	2752					14804					
		STD	0250	0599	3499	2757			0005652	0207	14791					
		STD	0300	0554	3497	2760			0005343	0235	14782					
		STD	0400	0503	3493	2764			0005136	0287	14776					
124		OBS	T0405	0501	34924	2764					14776					
		STD	0500	0493	3497	2768			0004850	0337	14789					
124		OBS	0506	0492	34967	2768					14790					
		STD	0600	0457	3496	2771			0004575	0394	14791					
124		OBS	T0606	0455												
		STD	0700	0431	3495	2774			0004424	0429	14797					
		STD	0800	0409	3495	2776			0004297	0473	14904					
124		OBS	0827	0403	34945	2776					14906					
		STD	0900	0390	3494	2777			0004199	0515	14812					
		STD	1000	0374	3494	2779			0004108	0557	14822					
124		OBS	T1024	0370	34940	2779					14825					
		STD	1100	0360	3494	2780			0004026	0597	14833					
		STD	1200	0349	3494	2781			0003961	0637	14945					
		STD	1300	0340	3494	2782			0003925	0677	14958					
		STD	1400	0333	3495	2783			0003910	0716	14873					
		STD	1500	0329	3495	2784			0003923	0755	14944					
124		OBS	T1616	0324	34949	2784					14907					

TABLE IV—Continued

REFERENCE		SHIP CODE	SHIP NO.	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME GMT	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH FATHS	WAVE OBSERVATIONS	WEA- TH- ER CODE	CLOUD CODES	NODC STATION NUMBER	
CRUISE CODE	STATION NUMBER																
311143	CC		52453N	035311W	184	25 08 12	121	1967	C14	009	3292	15	32	1	4 3	0009	
WATER																	
COLOR		TRANSP.		DIR.		SPEED OR FORCE		BARO- METER (mmHg)		AIR TEMP. °C		WET BULB		VIS. CODE		NO. OBS. DEPTH	
CODE		(m)														SPECIAL OBSERVATIONS	
						23		505		183		111		106		7 14	

REFERENCE SHIP NO.	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S CCT
		STD	0000	1143	3475	2652	0015217	0000	14952								
121		OBS	0000	1143	34749	2652			14952								
121		OBS	0009	1134	34773	2656			14950								
		STD	0010	1133	3477	2656	0014896	0015	14950								
		STD	0020	1127	3478	2657	0014800	0030	14950								
121		OBS	0029	1122	34777	2658			14949								
		STD	0030	1112	3478	2660	0014519	0045	14946								
121		OBS	0048	0945	34848	2695			14890								
		STD	0050	0925	3486	2699	0010887	0070	14883								
121		OBS	0072	0756	34958	2731			14823								
		STD	0075	0745	3494	2733	0007703	0093	14820								
121		OBS	0096	0684	34934	2741			14799								
		STD	0100	0681	3494	2742	0006862	0111	14799								
		STD	0125	0668	3498	2747	0006432	0128	14798								
121		OBS	0144	0663	35004	2749			14800								
		STD	0150	0664	3501	2750	0006196	0144	14801								
121		OBS	T0194	0668	35056	2753			14811								
		STD	0200	0665	3505	2753	0005989	0174	14810								
		STD	0250	0639	3503	2755	0005871	0204	14808								
		STD	0300	0611	3502	2758	0005654	0233	14805								
121		OBS	0386	0557	34984	2762			14797								
		STD	0400	0545	3498	2763	0005251	0287	14794								
121		OBS	0483	0487	34949	2767			14784								
		STD	0500	0479	3495	2768	0004799	0338	14783								
121		OBS	T0582	0466	34949	2772			14783								
		STD	0600	0439	3495	2772	0004442	0384	14783								
		STD	0700	0408	3494	2775	0004248	0427	14787								
121		OBS	0779	0389	34932	2777			14792								
		STD	0800	0386	3493	2777	0004154	0469	14794								
		STD	0900	0375	3493	2778	0004116	0511	14806								
121		OBS	0978	0367	34927	2778			14816								
		STD	1000	0365	3493	2779	0004085	0552	14819								
		STD	1100	0357	3493	2780	0004074	0592	14832								
		STD	1200	0350	3493	2780	0004072	0633	14846								
		STD	1300	0344	3493	2781	0004079	0674	14860								
		STD	1400	0341	3494	2782	0004047	0714	14876								
121		OBS	T1477	0339	34947	2783			14888								

REFERENCE SHIP NO.	SHIP CODE	LATITUDE ° 1°/10'	LONGITUDE ° 1°/10'	MARSSEN SQUARE	STATION TIME GMT	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS	WEA- TH- ER CODE	CLOUD CODES	NODC STATION NUMBER
311143	CC	52492N	035343W	184	25 08 13	122	1967	C14 010	3475	14	31	2	1 8	0010
WATER														
COLOR CODE		WIND DIR. SPEED OR FORCE		BARO- METER (mb)		AIR TEMP. °C DRY BULB WET BULB		VIS. CODE NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
30		520		111		106 7 14								

REFERENCE SHIP NO.	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S CCT
		STD	0000	1138	3472	2651	0015343	0000	14950								
122		OBS	0000	1138	34720	2651			14950								
122		OBS	0009	1136	34702	2650			14950								
		STD	0010	1133	3470	2650	0015399	0015	14949								
		STD	0020	1104	3473	2657	0014748	0030	14941								
122		OBS	0027	1083	34741	2662			14935								
		STD	0030	1027	3477	2675	0013151	0044	14916								
122		OBS	0043	0838	34841	2711			14849								
		STD	0050	0794	3484	2718	0009069	0067	14833								
122		OBS	0065	0725	34840	2728			14809								
		STD	0075	0707	3489	2734	0007541	0087	14804								
122		OBS	0087	0690	34940	2741			14800								
		STD	0100	0676	3495	2743	0006751	0105	14797								
		STD	0125	0661	3496	2746	0006504	0122	14795								
122		OBS	0131	0659	34961	2747			14795								
		STD	0150	0667	3499	2748	0006384	0138	14802								
122		OBS	T0174	0673	35019	2749			14809								
		STD	0200	0648	3500	2751	0006137	0169	14803								
		STD	0250	0606	3496	2753	0005965	0199	14794								
		STD	0300	0571	3494	2756	0005741	0229	14788								
122		OBS	T0356	0540	34934	2760			14784								
		STD	0400	0524	3494	2762	0005290	0284	14785								
122		OBS	0441	0510	34948	2764			14786								
		STD	0500	0490	3497	2768	0004775	0334	14788								
122		OBS	T0529	0480	34978	2770			14789								
		STD	0600	0448	3496	2772	0004459	0380	14787								
122		OBS	0671	0423	34947	2774			14788								
		STD	0700	0417	3494	2774	0004346	0424	14791								
		STD	0800	0398	3494	2776	0004220	0467	14799								
122		OBS	T0871	0386	34936	2777			14806								
		STD	0900	0382													
		STD	1000	0368													
		STD	1100	0357													
		STD	1200	0349													
		STD	1300	0344													
122		OBS	T1390	0342													

TABLE IV—Continued

REFERENCE	SHIP CODE	LATITUDE ° /'"/E	LONGITUDE ° /'"/E	HARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	MODE STATION NUMBER				
				10'	1"	MO	DAY		HR	MIN						CRUISE NO.	STATION NUMBER		
311143	CC	52425N	035298W	184	25 08 14	136	1967	C14	011		3840	16	29	3		5 6			0011
				WATER		WIND		AIR TEMP. °C		NO. OF DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANSL. M	DIR.	SPEED OR FORCE	BARO-METER (mmHg)	DRY BULB	WET BULB	VIS CODE								
				31	523	051	106	100	7	14									
MESSAGE NO. MS 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δρ Δ DYN. M. ± 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ -F pg - μl/l	TOTAL-F pg - μl/l	HO ₂ -M pg - μl/l	HO ₂ -M pg - μl/l	SiO ₂ -B pg - μl/l	pH			
		STD	0000	1154	3477	2651	0015294	0000	14956										
	136	OBS	0010	1154	34765	2651			14956										
		STD	0010	1154	3476	2651	0015384	0015	14957										
	136	OBS	0010	1154	34756	2651			14957										
		STD	0020	1136	3477	2655	0015014	0031	14953										
		STD	0030	1118	3478	2659	0014653	0045	14948										
	136	OBS	0032	1114	34777	2660			14947										
		STD	0050	0840	3489	2715	0003966	0069	14851										
	136	OBS	0050	0840	34891	2715			14851										
		STD	0075	0745	3492	2731	0007837	0091	14819										
	136	OBS	0076	0742	34922	2732			14818										
		STD	0100	0693	3493	2739	0007096	0110	14803										
	136	OBS	0102	0690	34936	2740			14803										
		STD	0125	0674	3495	2744	0006735	0127	14803										
		STD	0150	0663	3497	2747	0006480	0143	14800										
	136	OBS	0164	0659	34980	2748			14801										
		STD	0200	0659	3501	2751	0006177	0175	14807										
	136	OBS	T0205	0658	35019	2751			14808										
		STD	0250	0634	3501	2754	0005954	0205	14806										
		STD	0300	0606	3500	2757	0005739	0235	14803										
		STD	0400	0548	3498	2762	0005289	0290	14795										
	136	OBS	T0416	0538	34978	2763			14794										
		STD	0500	0486	3497	2769	0004704	0340	14786										
	136	OBS	0507	0482	34973	2770			14786										
	136	OBS	T0596	0425	34930	2773			14777										
		STD	0600	0424	3493	2773	0004402	0385	14777										
		STD	0700	0410	3493	2774	0004338	0429	14788										
	136	OBS	0798	0396	34928	2775			14798										
		STD	0800	0396	3493	2775	0004285	0472	14798										
		STD	0900	0380	3492	2776	0004263	0515	14808										
	136	OBS	T0992	0368	34909	2777			14818										
		STD	1000	0367	3491	2777	0004264	0557	14819										
		STD	1100	0356	3491	2778	0004180	0600	14831										
		STD	1200	0348	3492	2780	0004129	0641	14845										
		STD	1300	0341	3492	2781	0004087	0682	14859										
		STD	1400	0337	3493	2781	0004078	0723	14874										
		STD	1500	0336	3493	2782	0004106	0764	14890										
	136	OBS	T1566	0336	34937	2782			14902										

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HARDEN SQUARE 10' 1'	STATION TIME MO DATE H/LV	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH BOTTOM	MAL DEPTH OF FATHOMS	WAVE OBSERVATIONS DBL HGA PPS SCA	WEA- THER CODE	CLOUD CODES TMS BWP	NODC STATION NUMBER		
311143	CC	52455N	035395W	184	25 08 15	1967	C14 012	3658	14	31	2		4 6	0012		
				WATER COLOR CODE		WIND DBL TRANS MIT	WIND BARO-METER Invol	AIR TEMP. ° C DRY WET	VSL CODE	SPECIAL OBSERVATIONS						
				30		522	112	117 106	7	14						
HISTORICAL TIME & NO.	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2016°	S ΔD DRY M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P μg - ml/l	TOTAL-P μg - ml/l	NO₃-N μg - ml/l	NO₂-N μg - ml/l	SiO₄-Si μg - ml/l	pH
		STD	0000	1131	3477	2656	0014859	0000	14948							
122		OBS	0000	1131	34769	2656			14948							
		STD	0010	1130	3477	2656	0014851	0015	14949							
122		OBS	0010	1130	34771	2656			14949							
		STD	0020	1128	3477	2656	0014864	0030	14950							
		STD	0030	1126	3476	2656	0014884	0045	14951							
122		OBS	0031	1126	34764	2656			14951							
122		OBS	0049	0908	34822	2699			14876							
		STD	0050	0901	3483	2700	0010738	0070	14873							
122		OBS	0074	0770	34926	2728			14829							
		STD	0075	0767	3493	2729	0008070	0094	14328							
122		OBS	0098	0704	34932	2738			14807							
		STD	0100	0702	3494	2739	0007143	0113	14807							
		STD	0125	0678	3497	2745	0006639	0130	14802							
122		OBS	0147	0666	34998	2748			14801							
		STD	0150	0666	3500	2749	0006296	0146	14802							
122		OBS	T0196	0666	35018	2750			14810							
		STD	0200	0663	3502	2750	0006208	0177	14809							
		STD	0250	0624	3500	2755	0005869	0208	14802							
		STD	0300	0591	3499	2758	0005606	0236	14796							
122		OBS	T0380	0547	34971	2762			14792							
		STD	0400	0540	3497	2763	0005256	0291	14792							
122		OBS	0468	0513	34972	2766			14792							
		STD	0500	0497	3497	2768	0004859	0341	14791							
122		OBS	T0554	0473	34967	2770			14790							
		STD	0600	0455	3495	2771	0004616	0389	14790							
		STD	0700	0423	3494	2774	0004416	0434	14793							
122		OBS	0725	0416	34933	2774			14794							
		STD	0800	0403	3493	2775	0004338	0477	14801							
		STD	0900	0387	3493	2777	0004249	0520	14811							
122		OBS	T0920	0384	34931	2777			14813							
		STD	1000	0373	3493	2778	0004165	0562	14822							
		STD	1100	0362	3493	2779	0004112	0604	14834							
		STD	1200	0352	3493	2780	0004067	0645	14847							
		STD	1300	0345	3494	2781	0004055	0685	14860							
		STD	1400	0339	3494	2782	0004044	0726	14875							
122		OBS	T1439	0338	34937	2782			14881							

TABLE IV—Continued

REFERENCE CIR NO.	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARENGO SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOM	WAVE OBSERVATIONS			WEA- THES CODE	CLOUD CODE	NODC STATION NUMBER
					16'	1'	MO	DAY		HE	CAUSE NO.			STATION NUMBER	DR	MC			
311143	CC	52461N	035301W	184	25	08	16	129	1967	C14 013	3200	18	24	1		53	7 6	0013	
MESSAGE TIME HE 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	S Δ D DYN. M. 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S 100		
		STD	0000	1130	3473	2653	0015100	0000	14947										
		OBS	0000	1130	34734	2653			14947										
		STD	0010	1128	3473	2653	0015123	0015	14948										
		OBS	0012	1128	34727	2653			14948										
		STD	0020	1126	3473	2654	0015105	0030	14949										
		STD	0030	1123	3473	2655	0015054	0045	14950										
		OBS	0035	1122	34736	2655			14950										
		STD	0050	0889	3486	2705	0010332	0071	14869										
		OBS	0055	0832	34892	2716			14849										
		STD	0075	0739	3493	2733	0007679	0093	14817										
		OBS	0084	0709	34933	2737			14807										
		STD	0100	0681	3493	2741	0006937	0111	14799										
		OBS	0111	0666	34926	2743			14794										
		STD	0125	0662	3494	2744	0006651	0128	14795										
		STD	0150	0657	3497	2747	0006401	0145	14798										
		OBS	0167	0653	34987	2749			14799										
		STD	0200	0648	3501	2752	0006062	0176	14803										
		OBS	T0222	0643	35014	2753			14805										
		STD	0250	0628	3501	2755	0005876	0206	14803										
		STD	0300	0601	3500	2757	0005674	0235	14801										
		STD	0400	0543	3498	2763	0005226	0289	14793										
		OBS	T0441	0517	34970	2765			14789										
		STD	0500	0471	3494	2768	0004771	0339	14780										
		OBS	0553	0442	34926	2770			14776										
		STD	0600	0430	3493	2772	0004471	0385	14779										
		OBS	T0665	0416	34931	2774			14784										
		STD	0700	0410	3493	2774	0004343	0429	14788										
		STD	0800	0395	3493	2776	0004253	0472	14798										
		STD	0900	0379	3493	2777	0004158	0514	14808										
		OBS	0904	0378	34927	2777			14808										
		STD	1000	0370	3491	2777	0004292	0557	14820										
		STD	1100	0362	3490	2777	0004355	0600	14834										
		OBS	T1147	0358	34898	2777			14840										
		STD	1200	0354	3490	2778	0004334	0643	14847										
		STD	1300	0347	3491	2779	0004277	0686	14861										
		STD	1400	0341	3491	2780	0004238	0729	14875										
		STD	1500	0335	3492	2781	0004188	0771	14890										
		STD	1750	0322	3494	2783	0004098	0875	14927										
		OBS	T1758	0322	34937	2784			14928										

TABLE IV—Continued

REFERENCE CIR CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E 30'	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER	
						10'	1'	MO	DAY	HE	1/10		CRUISE NO.	STATION NUMBER			NO.	STATION NUMBER	SW	SE		NE	SE		TPR
311143		CC	52440N	035270W		184	25	08	17	119	1967	C14	014			3658	33	35	0			46	7	6	0014
						WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TEMP. °C	DIR.	SPED. OF FORCE	METER (MMHG)	DRY BULB	WET BULB	VS. CODE												
						32	S12			105	117	111	6	18											
MESSING TIME MS 1/10	CAT NO.	CARD TYPE	DEPTH (M)	1 °C	5 °C	SIGMA-T	INCRIC VOLUME ANOMALY-10 ³	Σ Δ D DTN. M. Σ 10 ³	SOUND VELOCITY	O ₂ (M/L)	PO ₄ -P PB - 10 ³	TOTAL-P PB - 10 ³	NO ₃ -N PB - 10 ³	NO ₃ -N PB - 10 ³	SiO ₄ -S PB - 10 ³	pH	1 C								
		STD	0000	1175	3473	2644	0015948	0000	14963																
		OBS	0000	1175	34727	2644			14963																
		STD	0010	1172	3473	2645	0015933	0016	14963																
		OBS	0010	1172	34725	2645			14963																
		STD	0020	1161	3474	2648	0015651	0032	14961																
		STD	0030	1102	3477	2661	0014419	0047	14942																
		OBS	0031	1094	34772	2663			14940																
		OBS	0048	0880	34882	2708			14866																
		STD	0050	0861	3488	2711	0009731	0071	14859																
		OBS	0072	0711	34911	2735			14806																
		STD	0075	0704	3492	2737	0007277	0092	14803																
		OBS	0096	0666	34959	2745			14792																
		STD	0100	0662	3496	2746	0006471	0109	14791																
		STD	0125	0642	3496	2749	0006250	0125	14788																
		OBS	0144	0634	34959	2750			14788																
		STD	0150	0636	3497	2750	0006128	0141	14789																
		OBS	T0194	0644	35012	2753			14800																
		STD	0200	0637	3501	2753	0005919	0171	14799																
		STD	0250	0581	3496	2757	0005649	0200	14784																
		STD	0300	0534	3492	2759	0005435	0227	14772																
		OBS	T0378	0479	34898	2764			14762																
		STD	0400	0470	3490	2765	0004945	0279	14762																
		OBS	0466	0444	34910	2769			14763																
		STD	0500	0431	3490	2770	0004604	0327	14763																
		OBS	T0555	0413	34896	2771			14764																
		STD	0600	0404	3490	2772	0004418	0372	14768																
		STD	0700	0387	3490	2774	0004312	0416	14777																
		OBS	0751	0380	34899	2775			14783																
		STD	0800	0374	3490	2775	0004253	0459	14789																
		STD	0900	0364	3490	2776	0004240	0501	14801																
		OBS	T0941	0361	34895	2776			14807																
		STD	1000	0360	3490	2777	0004248	0544	14816																
		STD	1100	0359	3491	2778	0004245	0586	14833																
		STD	1200	0357	3491	2778	0004304	0629	14848																
		STD	1300	0354	3492	2779	0004275	0672	14864																
		STD	1400	0351	3492	2779	0004318	0715	14880																
		OBS	T1469	0349	34926	2780			14890																
		STD	1500	0347	3493	2780	0004303	0758	14895																
		STD	1750	0330	3493	2782	0004282	0865	14930																
		STD	2000	0319	3492	2783	0004323	0973	14968																
		OBS	T2104	0315	34923	2783			14984																
		STD	2500	0311	3492	2784	0004551	1195	15050																
		OBS	T2649	0309	34925	2784			15075																
		STD	3000	0302	3497	2788	0004408	1418	15133																
		OBS	3183	0300	34975	2789			15164																
		OBS	T3350	0300	34972	2788			15193																

TABLE IV—Continued

REFERENCE SHIP CODE	SHIP NO.	LATITUDE 1°/10'	LONGITUDE 1°/10'	E W	MARESEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS DR. HGT. PER. SEA	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																														
311143	CC	52448N	035346W		184	25 08 18 125	1967	C14	015	3511	14	26	1		0015																														
<table border="1"> <tr> <th>WATER</th><th>WIND</th><th>AB TEMP. °C</th><th>NO. OBS. DEPTHS</th><th>SPECIAL OBSERVATIONS</th></tr> <tr> <td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OF FLOW (m/s)</td><td>DIR. BUL.</td><td>WET BUL.</td><td>VEL. CODE</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td>19</td><td>507</td><td>186</td><td>117</td><td>111</td><td>7</td><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																WATER	WIND	AB TEMP. °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OF FLOW (m/s)	DIR. BUL.	WET BUL.	VEL. CODE						19	507	186	117	111	7	14						
WATER	WIND	AB TEMP. °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FLOW (m/s)	DIR. BUL.	WET BUL.	VEL. CODE																																							
			19	507	186	117	111	7	14																																				
MISSION TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPEC. VOL. ANOM. (10 ⁻³)	S.D. DTY. (10 ⁻³)	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -M pg - ml/l	NO ₃ -M pg - ml/l	SiO ₄ -Si pg - ml/l	pH	CO ₂																												
		STD	0000	1156	3477	2651	0015315	0000	14957																																				
125		OBS	0000	1156	34767	2651			14957																																				
125		OBS	0009	1152	34766	2652			14957																																				
		STD	0010	1151	3477	2652	0015243	0015	14956																																				
		STD	0020	1137	3477	2655	0014991	0030	14953																																				
125		OBS	0028	1126	34776	2657			14951																																				
		STD	0030	1105	3479	2662	0014323	0045	14944																																				
125		OBS	0046	0945	34876	2697			14890																																				
		STD	0050	0895	3488	2705	0010275	0070	14872																																				
125		OBS	0069	0732	34896	2731			14813																																				
		STD	0075	0723	3491	2734	0007609	0092	14811																																				
125		OBS	0091	0700	34930	2738			14805																																				
		STD	0100	0686	3493	2740	0006996	0110	14801																																				
		STD	0125	0659	3494	2744	0006649	0127	14794																																				
125		OBS	0138	0650	34937	2746			14793																																				
		STD	0150	0651	3495	2747	0006465	0144	14795																																				
125		OBS	T0184	0652	34980	2749			14802																																				
		STD	0200	0633	3497	2751	0006164	0175	14797																																				
		STD	0250	0580	3493	2754	0005860	0205	14783																																				
		STD	0300	0536	3491	2758	0005534	0234	14773																																				
125		OBS	T0370	0490	34894	2762			14766																																				
		STD	0400	0478	3490	2764	0005038	0287	14766																																				
125		OBS	0461	0457	34910	2767			14767																																				
		STD	0500	0448	3492	2769	0004650	0335	14770																																				
125		OBS	T0554	0435	34931	2772			14774																																				
		STD	0600	0423	3493	2773	0004390	0380	14776																																				
		STD	0700	0400	3492	2774	0004297	0424	14783																																				
125		OBS	0745	0391	34913	2775			14787																																				
		STD	0800	0382	3491	2775	0004256	0467	14792																																				
		STD	0900	0367	3490	2776	0004245	0509	14802																																				
125		OBS	T0942	0362	34893	2776			14807																																				
		STD	1000	0360	3490	2777	0004274	0552	14816																																				
		STD	1100	0357	3490	2777	0004277	0594	14832																																				
		STD	1200	0354	3491	2778	0004271	0637	14847																																				
		STD	1300	0351	3492	2779	0004270	0680	14863																																				
		STD	1400	0348	3492	2780	0004269	0723	14878																																				
125		OBS	T1441	0347	34925	2780			14885																																				

REFERENCE SHIP CODE	SHIP NO.	LATITUDE ° 1/10'	LONGITUDE ° 1/10'	E W	MARESEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S CRUISE NO. STATION NUMBER		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS DR. HGT. PER. SEA	WEA- THER CODE	CLOUD CODES TPT AMT	NODC STATION NUMBER																																				
						18'	1'	MO	DAY		HR	10'							11'																																			
311143	CC	5246 N	03531 W		184	25	08	19	133	1967	C14	016	3383	19	22	2	41	7	7	0016																																		
<table><tr><th>WATER</th><th>WIND</th><th colspan="2">AIR TEMP. °C</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>DR.</th><th>SPEED OF FORCE</th><th>BARO-METER (mb)</th><th>DRY BUL.</th><th>WET BUL.</th><th>VEL. CODE</th></tr><tr><td></td><td></td><td></td><td>18</td><td>512</td><td>301</td><td>133</td><td>128</td><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																				WATER	WIND	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DR.	SPEED OF FORCE	BARO-METER (mb)	DRY BUL.	WET BUL.	VEL. CODE				18	512	301	133	128	14												
WATER	WIND	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																																	
COLOR CODE	TRANS. (m)	DR.	SPEED OF FORCE			BARO-METER (mb)	DRY BUL.	WET BUL.	VEL. CODE																																													
			18	512	301	133	128	14																																														
MISSION TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D. DTY. (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	CO ₂																																					
		STD	0000	1181	3473	2644	0016018	0000	14965																																													
132		OBS	0000	1181	34732	2644			14965																																													
		STD	0010	1177	3474	2645	0015912	0016	14965																																													
132		OBS	0013	1170	34741	2646			14963																																													
		STD	0020	1129	3477	2656	0014865	0031	14950																																													
		STD	0030	1066	3481	2671	0013508	0046	14930																																													
132		OBS	0040	0997	34844	2685			14907																																													
		STD	0050	0907	3487	2702	0010534	0070	14876																																													
132		OBS	0063	0815	34905	2720			14844																																													
		STD	0075	0778	3493	2727	0008225	0093	14832																																													
132		OBS	0095	0712	34937	2737			14810																																													
		STD	0100	0690	3492	2739	0007131	0112	14802																																													
		STD	0125	0602	3486	2746	0006481	0129	14770																																													
132		OBS	0126	0599	34857	2746			14769																																													
		STD	0150	0568	3486	2750	0006113	0145	14761																																													
132		OBS	0189	0546	34860	2753			14758																																													
		STD	0200	0555	3488	2754	0005858	0175	14764																																													
		STD	0250	0584	3497	2757	0005612	0204	14785																																													
132		OBS	T0252	0585	34977	2757			14786																																													
		STD	0300	0553	3495	2759	0005443	0231	14781																																													
		STD	0400	0486	3491	2764	0005061	0284	14769																																													
		STD	0500	0420	3490	2771	0004475	0331	14758																																													
132		OBS	T0501	0419	34897	2771			14758																																													
		STD	0600	0405	3491	2773	0004333	0375	14769																																													
132		OBS	0624	0402	34912	2774			14771																																													
		STD	0700	0395	3492	2775	0004277	0419	14781																																													
132		OBS	T0746	0391	34917	2775			14787																																													
		STD	0800	0385	3492	2776	0004231	0461	14793																																													
		STD	0900	0375	3492	2777	0004197	0503	14806																																													
		STD	1000	0367	3492	2778	0004182	0545	14819																																													
132		OBS	1000	0367	34920	2778			14819																																													
		STD	1100	0363	3492	2778	0004197	0587	14834																																													
		STD	1200	0359	3493	2779	0004218	0629	14849																																													
132		OBS	T1256	0357	34927	2779			14858																																													
		STD	1300	0355	3493	2780	0004214	0671	14865																																													
		STD	1400	0352	3493	2780	0004257	0714	14880																																													
		STD	1500	0348	3493	2780	0004286	0756	14895																																													
		STD	1750	0340	3494	2782	0004303	0864	14934																																													
132		OBS	T1912	0335	34941	2783			14960																																													

TABLE IV—Continued

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM (FATHOMS)	MAR. DEPTH (FATHOMS)	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER
					CRUISE NO.	STATION NUMBER	DR.	HG		PER	SEA									
311143	CC	52455N	035241W	184	25	08	20	120	1967	C14	017	3475	13	27	1		28	X 7		0017
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. ± 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S °C			
		STD	0000	1210	3471	2637	0016676	0000	14975											
120	OBS	0000	1210	34714	2637				14975											
120	OBS	0009	1208	34704	2636				14975											
		STD	0010	1207	3470	2637	0016712	0017	14975											
		STD	0020	1193	3471	2639	0016470	0033	14972											
120	OBS	0027	1183	34708	2641				14970											
		STD	0030	1146	3472	2649	0015556	0049	14957											
120	OBS	0043	0993	34753	2679				14905											
		STD	0050	0901	3478	2696	0011108	0076	14873											
120	OBS	0063	0774	34824	2719				14827											
		STD	0075	0723	3483	2727	0008204	0100	14810											
120	OBS	0086	0684	34835	2733				14796											
		STD	0100	0652	3484	2738	0007228	0119	14786											
		STD	0125	0604	3484	2744	0006655	0137	14771											
120	OBS	0129	0598	34843	2745				14769											
		STD	0150	0572	3485	2749	0006222	0153	14762											
120	OBS	T0172	0548	34857	2753				14756											
		STD	0200	0539	3487	2755	0005741	0183	14757											
		STD	0250	0522	3490	2759	0005378	0211	14759											
		STD	0300	0503	3491	2762	0005140	0237	14760											
120	OBS	T0331	0490	34915	2764				14759											
		STD	0400	0456	3491	2768	0004679	0286	14757											
120	OBS	0415	0450	34914	2769				14757											
		STD	0500	0432	3493	2772	0004394	0331	14764											
120	OBS	T0501	0432	34931	2772				14764											
		STD	0600	0416	3493	2774	0004302	0375	14773											
120	OBS	0682	0403	34930	2775				14782											
		STD	0700	0400	3493	2775	0004223	0417	14783											
		STD	0800	0384	3491	2775	0004279	0460	14793											
120	OBS	T0848	0378	34908	2776				14798											
		STD	0900	0376	3491	2776	0004278	0503	14806											
		STD	1000	0371	3491	2777	0004302	0546	14821											
		STD	1100	0366	3491	2777	0004317	0589	14836											
		STD	1200	0362	3491	2778	0004338	0632	14850											
		STD	1300	0357	3491	2778	0004355	0675	14865											
120	OBS	T1340	0355	34915	2779				14871											

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM (FATHOMS)	MAR. DEPTH (FATHOMS)	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER	
					CRUISE NO.	STATION NUMBER	DR.	HG		PER	SEA										
311143	CC	52410N	035250W	184	25	08	21	143	1967	C14	018	3475	18	05	1			63	8 4		0018
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. ± 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S °C				
		STD	0000	1217	3470	2634	0016906	0000	14977												
142	OBS	0000	1217	34700	2634				14977												
	STD	0010	1216	3471	2635	0016869	0017	14978													
142	OBS	0011	1214	34707	2635				14978												
	STD	0020	1147	3475	2651	0015329	0033	14956													
	STD	0030	1065	3480	2670	0013565	0047	14930													
142	OBS	0037	1003	34824	2683				14909												
	STD	0050	0863	3488	2710	0009790	0071	14860													
142	OBS	0058	0796	34898	2722				14836												
	STD	0075	0714	3490	2734	0007561	0092	14807													
142	OBS	0088	0673	34905	2740				14793												
	STD	0100	0644	3493	2743	0006713	0110	14792													
142	OBS	0118	0648	34945	2747				14789												
	STD	0125	0637	3493	2747	0006402	0127	14785													
	STD	0150	0601	3490	2749	0006206	0142	14775													
142	OBS	0178	0568	34871	2751				14765												
	STD	0200	0549	3486	2753	0005935	0173	14761													
142	OBS	T0235	0521	34854	2756				14756												
	STD	0250	0516	3486	2757	0005605	0202	14756													
	STD	0300	0498	3488	2760	0005305	0229	14757													
	STD	0400	0467	3491	2766	0004836	0280	14761													
142	OBS	T0472	0447	34914	2769				14765												
	STD	0500	0440	3491	2769	0004632	0327	14767													
142	OBS	0588	0420	34901	2771				14773												
	STD	0600	0418	3490	2771	0004541	0373	14774													
	STD	0700	0399	3491	2774	0004337	0417	14783													
142	OBS	T0707	0398	34914	2774				14783												
	STD	0800	0387	3491	2775	0004321	0461	14794													
	STD	0900	0376	3490	2776	0004327	0504	14806													
142	OBS	0950	0372	34900	2776				14813												
	STD	1000	0369	3490	2776	0004332	0547	14820													
	STD	1100	0362	3491	2777	0004296	0590	14834													
142	OBS	T1195	0357	34913	2778				14848												
	STD	1200	0357	3491	2778	0004282	0633	14848													
	STD	1300	0351	3491	2779	0004290	0676	14863													
	STD	1400	0347	3491	2779	0004327	0719	14878													
	STD	1500	0342	3491	2780	0004342	0762	14893													
	STD	1750	0333	3491	2780	0004423	0872	14931													
142	OBS	T1825	0331	34911	2781				14943												

TABLE IV—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	WAVE SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH	WAVE OBSERVATIONS	WAVE OTHER CODE	CLOUD CODES	MOOD STATION NUMBER		
SHIP NO.	ID. NO.	CODE	1/10	1/10	10'	1"	MO	DAY	HR	1/10	CRUISE NO.	STATION NUMBER	TO BOTTOM	WAVE OBS.	WAVE OTHER	SEA	TYPE	60'	
311143	CC		52468N	035232W	184	25	08	24	127	1967	C14 021		3109	17	20	2		50 5 6	0021
WATER																			
WIND																			
BARO-METER																			
AIR TEMP. °C																			
WIL CODE																			
NO OBS DEPTHS																			
SPECIAL OBSERVATIONS																			
31 520 044 111 106 7 14																			
REFERENCE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T		SPECIFIC VOLUME ANOMALY-30°		S Δ D DY 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ =P pg - 0.1%	TOTAL P pg - 0.1%	NO ₂ =N pg - 0.1%	NO ₃ =N pg - 0.1%	SiO ₂ =S pg - 0.1%	PH	S CODE
		STD	0000	1147	3474	2650		0015369		0000	14953								
127		OBS	0000	1147	34738	2650					14953								
		STD	0010	1146	3477	2653		0015147		0015	14955								
127		OBS	0010	1146	34769	2653					14955								
		STD	0020	1143	3477	2654		0015120		0030	14955								
		STD	0030	1139	3477	2654		0015092		0045	14956								
127		OBS	0034	1138	34767	2654					14956								
		STD	0050	0986	3483	2686		0012080		0073	14905								
127		OBS	0054	0951	34846	2693					14893								
		STD	0075	0788	3488	2722		0008739		0099	14835								
127		OBS	0082	0750	34893	2728					14822								
		STD	0100	0703	3492	2737		0007305		0119	14807								
127		OBS	0111	0680	34927	2741					14800								
		STD	0125	0663	3493	2744		0006739		0136	14796								
		STD	0150	0644	3494	2747		0006455		0153	14792								
127		OBS	0166	0639	34956	2749					14793								
		STD	0200	0660	3502	2751		0006146		0184	14808								
127		OBS	T0223	0668	35051	2752					14815								
		STD	0250	0641	3503	2754		0005898		0214	14809								
		STD	0300	0595	3500	2758		0005598		0243	14798								
		STD	0400	0524	3496	2764		0005141		0297	14785								
127		OBS	T0443	0502	34956	2766		<											

TABLE V.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	W. E. S. D. N. SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH	WAVE OBSERVATIONS				WEA-	CLOUD	MODC.								
CRUISE NO.	ID. NO.	CODE	1° 10'	1° 10'	10'	1'	MO.	DAY.	HR. 1/10	CRUISE NO.	STATION NUMBER	TO BOTTOM	OF FATHS.	OB.	HGT.	PER.	SEA.	THIR CODE	TYPE	AMT	STATION NUMBER						
311159	BX		5249 N	03526 W	184	25	08	30	130	1967	C15 005	3428	14	22	2			44	7	8	0005						
					WATER		WIND		BARO-		AIR TEMP. °C		NO.		SPECIAL												
					COLOR CODE	TRANS. M1	DIR.	SPED. OR FORCE	METER (mb)		DRY BULB		WET BULB		VS. CODE		NO. OBS. DEPTHS										
								22	503	139	150	144	6	14													
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME		Σ Δ D		SOUND		O ₂ ml/l		PO ₂ -P		TOTAL-P		NO ₂ -N		NO ₃ -N		SiO ₄ -S		pH	
HR 1/10	NO.	TYPE																									
		STD	0000	1125	3481	2660		0014460		0000		14946															
130		OBS	0000	1125	34809	2660						14946															
		STD	0010	1107	3482	2664		0014112		0014		14942															
130		OBS	0010	1107	34817	2664						14942															
		STD	0020	1104	3482	2665		0014053		0028		14942															
		STD	0030	1100	3484	2667		0013891		0042		14943															
130		OBS	0030	1100	34837	2667						14943															
130		OBS	0049	0910	34877	2703						14877															
		STD	0050	0905	3488	2704		0010429		0067		14876															
130		OBS	0073	0792	34956	2727						14838															
		STD	0075	0781	3495	2728		0008119		0090		14834															
130		OBS	0096	0690	34901	2738						14801															
		STD	0100	0687	3491	2739		0007165		0109		14801															
		STD	0125	0666	3492	2742		0006853		0126		14797															
130		OBS	0145	0649	34932	2746						14793															
		STD	0150	0644	3493	2746		0006530		0143		14792															
130		OBS	T0193	0606	34923	2751						14784															
		STD	0200	0603	3493	2751		0006079		0175		14784															
		STD	0250	0582	3494	2755		0005810		0204		14784															
		STD	0300	0561	3495	2758		0005542		0233		14784															
130		OBS	0384	0525	34959	2763						14783															
		STD	0400	0517	3496	2764		0005064		0286		14782															
130		OBS	0478	0484	34959	2768						14782															
		STD	0500	0478	3496	2769		0004705		0335		14783															
130		OBS	T0572	0458	34961	2771						14787															
		STD	0600	0450	3496	2772		0004483		0381		14788															
		STD	0700	0424	3495	2774		0004354		0425		14794															
130		OBS	0761	0411	34939	2775						14798															
		STD	0800	0404	3493	2775		0004364		0468		14802															
		STD	0900	0388	3493	2776		0004268		0512		14812															
130		OBS	T0950	0381	34923	2777						14817															
		STD	1000	0374	3493	2778		0004214		0554		14822															
		STD	1100	0363	3494	2779		0004102		0596		14835															
		STD	1200	0354	3495	2781		0004010		0636		14848															
		STD	1300	0348	3495	2782		0003952		0676		14862															
		STD	1400	0344	3496	2784		0003916		0715		14877															
130		OBS	T1428	0343	34965	2784						14882															

REFERENCE		SHIP	LATITUDE	LONGITUDE	W. E. S. S. D. N. SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEA-	CLOUD	MODC.		
CRUISE NO.	ID. NO.	CODE	1° 10'	1° 10'	MO.	DAY.	HR.	1/10		CRUISE NO.	STATION NUMBER	TO BOTTOM	OF FATHS.	OB.	HGT.	PER.	SEA	THIR CODE	TYPE	AMT	
311159	BX		5232 N	03518 W	184	25	08	31	1967	C15	006	3063	13	22	2			40	7	18	0006
WATER		WIND		SARO-		AIR TEMP. °C		NO.		SPECIAL											
COLOR CODE	TRANS.	DIR.	SPED. OR FORCE	BARO-METER (mmHg)	DRY BULB	WET BULB	VS. CODE	NO. OBS. DEPTHS	OBSERVATIONS												
				23	520	125		6	14												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D DYN. M. 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	1				
		STD	0000	1188	3471	2641	0016299	0000	14967												
144		OBS	0000	1188	34711	2641			14967												
144		OBS	0009	1187	34709	2641			14968												
		STD	0010	1187	3471	2641	0016317	0016	14968												
		STD	0020	1185	3471	2641	0016309	0033	14969												
144		OBS	0027	1183	34708	2641			14970												
		STD	0030	1153	3473	2649	0015607	0049	14960												
144		OBS	0040	1049	34793	2672			14926												
		STD	0050	0912	3486	2701	0010685	0075	14878												
144		OBS	0063	0785	34932	2726			14833												
		STD	0075	0735	3494	2734	0007550	0098	14816												
144		OBS	0086	0700																	
		STD	0100	0681	3497	2744	0006639	0115	14799												
		STD	0125	0657	3498	2748	0006288	0132	14794												
144		OBS	0126	0656	34981	2748			14794												
		STD	0150	0653	3499	2750	0006200	0147	14797												
144		OBS	T0181	0646	34994	2751			14799												
		STD	0200	0636	3499	2752	0006055	0178	14798												
		STD	0250	0610	3497	2754	0005941	0208	14796												
		STD	0300	0582	3497	2757	0005656	0237	14793												
144		OBS	T0342	0558	34962	2760			14790												
		STD	0400	0522	3496	2764	0005087	0291	14785												
144		OBS	0418	0513	34964	2765			14784												
		STD	0500	0482	3496	2769	0004723	0340	14785												
144		OBS	T0508	0479	34964	2769			14785												
		STD	0600	0456	3496	2772	0004554	0386	14790												
144		OBS	0673	0438	34952	2773			14795												
		STD	0700	0431	3495	2773	0004436	0431	14797												
		STD	0800	0408	3494	2775	0004337	0475	14803												
144		OBS	0840	0400	34935	2776			14807												
		STD	0900	0389	3494	2777	0004236	0518	14812												
		STD	1000	0375	3494	2778	0004152	0560	14823												
		STD	1100	0364	3494	2780	0004099	0601	14835												
		STD	1200	0358	3494	2780	0004103	0642	14849												
144		OBS	T1272	0356	34940	2781			14860												

TABLE V.—Continued

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
					10'	1"	MO	DAY		HR	1/10							CRUISE NO.	STATION NUMBER	
311159	BX	5237 N	03524 W	184	25	09	01	129	1967	C15	007	3475	16	30	2	6 8	0007			
		WATER		WIND		BARO- METER (INCH)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANSL. M/L	DIR.	SPED OF FORCE			DRY BULB	WET BULB	VIL CODE										
		28		505	200	117		111	6	14										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY-30°		Δ Δ Δ DYN. AL Σ 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	STATION NUMBER
		STD	0000	1176	3473	2645		0015929		0000		14963								
129	OBS	0000	1176	34732	2645							14963								
	STD	0010	1174	3474	2646		0015862		0016		14964									
129	OBS	0011	1174	34743	2646							14964								
	STD	0020	1075	3477	2666		0013933		0031		14931									
	STD	0030	0972	3479	2686		0012107		0044		14896									
129	OBS	0034	0933	34802	2693						14882									
	STD	0050	0784	3482	2718		0009083		0065		14829									
129	OBS	0053	0764	34829	2721						14822									
	STD	0075	0704	3487	2733		0007650		0086		14803									
129	OBS	0080	0694	34876	2735						14800									
	STD	0100	0669	3490	2740		0007002		0104		14793									
129	OBS	0105	0662	34908	2742						14792									
	STD	0125	0623	3488	2745		0006596		0121		14779									
	STD	0150	0585	3487	2749		0006232		0137		14768									
129	OBS	0158	0576	34865	2750						14765									
	STD	0200	0553	3488	2754		0005834		0167		14763									
129	OBS	T0212	0547	34882	2755						14763									
	STD	0250	0529	3489	2757		0005550		0196		14762									
	STD	0300	0507	3490	2761		0005284		0223		14761									
	STD	0400	0468	3491	2767		0004818		0273		14762									
129	OBS	T0420	0461	34917	2768						14762									
	STD	0500	0434	3492	2771		0004511		0320		14764									
129	OBS	0526	0427	34917	2771						14766									
	STD	0600	0411	3492	2773		0004334		0364		14771									
129	OBS	T0635	0404	34920	2774						14774									
	STD	0700	0396	3492	2775		0004251		0407		14782									
	STD	0800	0386	3492	2776		0004228		0450		14794									
129	OBS	0838	0382	34916	2776						14799									
	STD	0900	0376	3492	2776		0004238		0492		14806									
	STD	1000	0367	3491	2777		0004227		0534		14819									
129	OBS	T1044	0364	34913	2778						14825									
	STD	1100	0360	3492	2778		0004213		0577		14833									
	STD	1200	0353	3492	2779		0004175		0618		14847									
	STD	1300	0348	3493	2780		0004157		0660		14862									
	STD	1400	0343	3493	2781		0004138		0702		14876									
	STD	1500	0340	3494	2782		0004134		0743		14892									
129	OBS	T1584	0338	34941	2782						14905									

REFERENCE		SHIP	LATITUDE	LONGITUDE	WARDEN		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC		
CITY	ID.	CODE	* 1/10	* 1/10	10"	1"	MO	DAY	HR.1/10		CRUISE	STATION	BOTTOM	DEPTH	DIR.	PER	SEA	THIR	TYPE	NO	STATION	
CODE	NO.										NO.	NUMBER		OF				CODE	HEAV		NUMBER	
311159	BX		5237 N	03521 W	184	25 09 03	133	1967	C15	008			2834	13	26	1			4 8		0008	
											WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS.		SPECIAL	
											COLOR	TRANSL.	DR.	METER	DRY	WET	VSL	NO.	DEPTHS	OBSERVATIONS		
											CODE	M/L	WIND	WIND	BULB	BULB	CODE	OF				
													22	515	190	133	133	7	14			
MESSAGE	CAST	CARD	DEPTH	T °C	S %	SIGMA-T		SPECIFIC VOLUME		Δ Δ Δ	SOUND		O ₂	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₂ -N	SiO ₄ -S	pH			
TIME	NO.	TYPE	M/L							ANOMALY-30°		VELOCITY	ml/l	pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l				
HR 1/10																						
		STD	0000	1160	3474	2648				0015555	0000	14958										
133	OBS	0000	1160	34744	2648							14958										
	STD	0010	1156	3475	2649					0015501	0016	14958										
133	OBS	0010	1156	34745	2649							14958										
	STD	0020	1150	3476	2652					0015308	0031	14958										
133	OBS	0027	1144	34764	2653							14957										
	STD	0030	1140	3477	2654					0015095	0046	14956										
133	OBS	0044	1123	34791	2659							14952										
	STD	0050	1029	3483	2679					0012785	0074	14920										
133	OBS	0065	0847	34900	2714							14857										
	STD	0075	0780	3490	2725					0008461	0101	14833										
133	OBS	0085	0726	34903	2733							14813										
	STD	0100	0684	3492	2740					0007051	0120	14800										
	STD	0125	0640	3495	2748					0006262	0137	14787										
133	OBS	0125	0640	34954	2748							14787										
	STD	0150	0639	3499	2751					0006018	0152	14791										
133	OBS	T0166	0636	35006	2753							14793										
	STD	0200	0610	3500	2756					0005646	0181	14788										
	STD	0250	0572	3500	2761					0005239	0208	14781										
	STD	0300	0536	3498	2764					0005012	0234	14774										
133	OBS	T0326	0518	34970	2765							14771										
	STD	0400	0467	3493	2768					0004687	0282	14762										
133	OBS	0411	0462	34922	2768							14761										
133	OBS	T0499	0439	34930	2771							14766										
	STD	0500	0439	3493	2771					0004472	0328	14766										
	STD	0600	0413	3493	2774					0004275	0372	14772										
133	OBS	0675	0398	34925	2775							14778										
	STD	0700	0395	3493	2775					0004202	0414	14781										
	STD	0800	0383	3493	2777					0004142	0456	14793										
133	OBS	0852	0378	34928	2777							14799										
	STD	0900	0374	3493	2778					0004119	0497	14806										
	STD	1000	0366	3493	2779					0004111	0539	14819										
	STD	1100	0360	3493	2779					0004117	0580	14833										
	STD	1200	0356	3493	2780					0004152	0621	14848										
	STD	1300	0354	3493	2780					0004209	0663	14864										
133	OBS	T1332	0354	34929	2780							14870										

TABLE V.—Continued

REFERENCE CRUISE CODE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	MARS DEN SQUARE 1° 1'	STATION TIME (GMT)			ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
					MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DR	HGT	PER			
311159	BX	5241 N	03522 W	184	25	09	04	150	1967	C15	009	2195	15	29	5	6 6	0009
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
		COLOR CODE	TRANL M	DIR.	TRND OR FORCE	DRY BUL	WET BUL	VIS CODE									
		29	S30	129	128	122	7	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	S.D. DYN. M. ± 10	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S C
		STD	0000	1084	3485	2671	0013428	0000	14932								
150		OBS	0000	1084	34853	2671			14932								
		STD	0010	1084	3485	2670	0013510	0013	14934								
150		OBS	0010	1084	34845	2670			14934								
		STD	0020	1083	3485	2671	0013503	0027	14935								
		STD	0030	1082	3485	2671	0013487	0040	14936								
150		OBS	0031	1082	34850	2671			14937								
150		OBS	0048	0992	34850	2687			14907								
		STD	0050	0970	3486	2691	0011600	0066	14899								
150		OBS	0073	0777	34919	2726			14831								
		STD	0075	0771	3492	2727	0008200	0090	14829								
		STD	0100	0709	3494	2738	0007237	0110	14810								
150		OBS	0108	0693	34942	2740			14805								
		STD	0125	0663	3495	2745	0006627	0127	14796								
150		OBS	0145	0640	34948	2748			14790								
		STD	0150	0641	3496	2749	0006267	0143	14791								
150		OBS	T0193	0644	35018	2753			14800								
		STD	0200	0640	3502	2753	0005906	0173	14800								
		STD	0250	0612	3501	2757	0005647	0202	14797								
		STD	0300	0583	3501	2760	0005378	0230	14793								
150		OBS	T0394	0525	35000	2767			14785								
		STD	0400	0520	3500	2767	0004795	0281	14784								
150		OBS	0481	0468	34980	2772			14776								
		STD	0500	0461	3497	2772	0004430	0327	14776								
150		OBS	T0577	0435	34949	2773			14778								
		STD	0600	0425	3494	2773	0004339	0371	14777								
		STD	0700	0392	3492	2775	0004205	0413	14780								
150		OBS	0768	0376	34905	2776			14784								
		STD	0800	0374	3491	2776	0004194	0455	14789								
		STD	0900	0367	3491	2777	0004185	0497	14802								
150		OBS	T0953	0364	34909	2777			14810								
		STD	1000	0361	3491	2778	0004186	0539	14817								
		STD	1100	0356	3491	2778	0004210	0581	14831								
		STD	1200	0352	3492	2779	0004170	0623	14846								
		STD	1300	0348	3492	2780	0004202	0665	14862								
		STD	1400	0344	3493	2781	0004158	0707	14877								
150		OBS	T1496	0342	34936	2782			14892								

TABLE V.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	W S	WARDEN SQUARE			STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER	
					10'	1'	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DM	HG	PER				SEA
311159	BX	5249 N	03531 W		184	25	09	05	136	1967	C15	010		3530	35	30	1			6 7		0010
					WATER		WIND		BARO- METER		AIR TEMP °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR	NAME	DR.	SPED	WET	DRY	WET	WET										
					CODE	(MI)	FORCE	(KTS)	BULB	BULB	BULB	BULB										
					30	S05	213		111	106	7	19										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH M	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DYN. M Σ 10 ³	SOUND VELOCITY	O ₂ M/L	PO ₂ -P pg - 01/1	TOTAL-P pg - 01/1	NO ₂ -N pg - 01/1	NO ₃ -N pg - 01/1	SiO ₄ -S pg - 01/1	PH	S C					
		STD	0000	1081	3487	2672	0013281	0000	14931													
136	OBS	0000	1081	34866	2672				14931													
	STD	0010	1076	3486	2673	0013248	0013	14931														
136	OBS	0010	1076	34862	2673				14931													
	STD	0020	1075	3486	2673	0013254	0027	14932														
	STD	0030	1074	3486	2673	0013261	0040	14934														
136	OBS	0030	1074	34862	2673				14934													
136	OBS	0049	1072	34866	2674				14936													
	STD	0050	1058	3487	2677	0012976	0066	14931														
136	OBS	0074	0812	34973	2725				14846													
	STD	0075	0809	3497	2726	0008351	0093	14845														
136	OBS	0097	0752	34970	2734				14826													
	STD	0100	0746	3497	2735	0007515	0113	14825														
	STD	0125	0706	3498	2741	0006948	0131	14813														
136	OBS	0146	0684	34986	2745				14808													
	STD	0150	0684	3499	2745	0006610	0148	14809														
136	OBS	T0195	0677	35023	2749				14814													
	STD	0200	0675	3502	2749	0006324	0180	14814														
	STD	0250	0650	3502	2752	0006090	0211	14812														
	STD	0300	0622	3502	2756	0005827	0241	14809														
136	OBS	T0383	0567	35011	2762				14801													
	STD	0400	0551	3500	2764	0005177	0296	14797														
136	OBS	0476	0494	34968	2768				14786													
	STD	0500	0486	3497	2769	0004727	0345	14786														
136	OBS	T0571	0463	34971	2772				14789													
	STD	0600	0454	3497	2773	0004441	0391	14790														
	STD	0700	0424	3497	2776	0004176	0434	14794														
136	OBS	0760	0409	34975	2778				14798													
	STD	0800	0400	3496	2778	0004095	0476	14800														
	STD	0900	0381	3494	2778	0004112	0517	14809														
136	OBS	T0953	0372	34928	2778				14814													
	STD	1000	0370	3493	2778	0004137	0558	14821														
	STD	1100	0367	3494	2779	0004142	0599	14836														
	STD	1200	0362	3494	2780	0004122	0640	14851														
	STD	1300	0358	3495	2781	0004111	0682	14866														
	STD	1400	0353	3496	2782	0004087	0723	14881														
136	OBS	T1450	0350	34958	2783				14888													
	STD	1500	0347	3496	2783	0004043	0763	14895														
	STD	1750	0330	3498	2786	0003920	0863	14931														
	STD	2000	0314	3499	2789	0003779	0959	14966														
170	OBS	2010	0313	34990	2789				14968													
170	OBS	2498	0307	34995	2790				15049													
	STD	2500	0307	3500	2790	0003982	1153	15049														
170	OBS	T2994	0308	34995	2790				15135													
	STD	3000	0308	3499	2789	0004357	1362	15136														
170	OBS	T3427	0300	34983	2789				15207													
170	OBS	3527	0302																			

TABLE V.—Continued

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	W. E. S. D. N. SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLE	WAVE OBSERVATIONS		WEA- THIR CODE	CLOUD CODES	NOOC STATION NUMBER		
							CRUISE NO.	STATION NUMBER			DR.	NG	PER	SEA			
311159	BX	5244 N	03531 W	184	25 09 06	1967	C15	011	3749	15	31	2			6	7	0011
				WATER COLOR CODE	WIND TRANS. DR.	WIND SPEED OR FORCE	BARO- METER (mmHg)	AIR TEMP °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS					
								DRY RULE	WET RULE								
						09	512	136	133	128	7	14					
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CODE
		STD	0000	1089	3487	2671	0013373	0000	14934								
130		OBS	0000	1089	34872	2671			14934								
		STD	0010	1085	3487	2672	0013358	0013	14934								
130		OBS	0010	1085	34868	2672			14934								
		STD	0020	1080	3487	2673	0013281	0027	14934								
		STD	0030	1075	3487	2674	0013204	0040	14934								
130		OBS	0030	1075	34872	2674			14934								
130		OBS	0049	0961	34919	2697			14897								
		STD	0050	0948	3492	2700	0010805	0064	14892								
130		OBS	0073	0743	34964	2735			14819								
		STD	0075	0740	3497	2735	0007433	0087	14818								
130		OBS	0097	0709	34976	2741			14810								
		STD	0100	0707	3498	2741	0006912	0105	14809								
		STD	0125	0690	3499	2745	0006650	0122	14807								
130		OBS	0147	0680	35003	2747			14807								
		STD	0150	0680	3501	2747	0006408	0138	14807								
		STD	0200	0676	3504	2750	0006211	0169	14814								
130		OBS	T0209	0674	35044	2751			14815								
		STD	0250	0647	3503	2754	0005977	0200	14811								
		STD	0300	0615	3501	2756	0005781	0229	14806								
		STD	0400	0552	3499	2763	0005264	0285	14797								
130		OBS	T0413	0544	34983	2763			14796								
		STD	0500	0491	3497	2769	0004767	0335	14788								
130		OBS	0501	0490	34972	2769			14788								
		STD	0600	0463	3497	2772	0004556	0381	14794								
130		OBS	T0611	0460	34971	2772			14794								
		STD	0700	0433	3496	2774	0004408	0426	14797								
		STD	0800	0403	3494	2776	0004273	0470	14801								
130		OBS	0802	0402	34940	2776			14801								
		STD	0900	0389	3494	2777	0004206	0512	14812								
		STD	1000	0377	3494	2778	0004153	0554	14824								
130		OBS	T1026	0374	34936	2778			14827								
		STD	1100	0367	3494	2779	0004120	0595	14836								
		STD	1200	0359	3494	2780	0004107	0636	14850								
		STD	1300	0353	3494	2781	0004116	0677	14864								
		STD	1400	0349	3494	2781	0004147	0719	14879								
		STD	1500	0346	3494	2781	0004188	0760	14895								
130		OBS	T1532	0346	34944	2782			14900								

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	W. E. S. D. N. SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLE	WAVE OBSERVATIONS		WEA- THIR CODE	CLOUD CODES	NOOC STATION NUMBER		
							CRUISE NO.	STATION NUMBER			DR.	NG	PER	SEA			
311159	BX	5253 N	03522 W	184	25 09 07	1967	C15	012	2837	14	16	1			7	6	0012
				WATER COLOR CODE	WIND TRANS. DR.	WIND SPEED OR FORCE	BARO- METER (mmHg)	AIR TEMP °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS					
								DRY RULE	WET RULE								
						22	512	112	139	133	7	14					
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CODE
		STD	0000	1077	3486	2673	0013250	0000	14930								
130		OBS	0000	1077	34861	2673			14930								
130		OBS	0009	1072	34869	2674			14930								
		STD	0010	1071	3487	2675	0013104	0013	14929								
		STD	0020	1063	3487	2676	0012992	0026	14928								
130		OBS	0029	1057	34872	2677			14928								
		STD	0030	1057	3487	2677	0012894	0039	14928								
130		OBS	0046	1052	34873	2678			14929								
		STD	0050	1008	3489	2687	0011995	0064	14914								
130		OBS	0069	0847	34962	2719			14858								
		STD	0075	0820	3497	2724	0008533	0090	14849								
130		OBS	0091	0760	34973	2733			14828								
		STD	0100	0745	3497	2735	0007501	0110	14824								
		STD	0125	0709	3497	2740	0007085	0128	14814								
130		OBS	0137	0695	34963	2742			14811								
		STD	0150	0686	3497	2744	0006785	0145	14809								
130		OBS	T0183	0665	34976	2747			14806								
		STD	0200	0657	3498	2748	0006404	0178	14806								
		STD	0250	0630	3500	2753	0005977	0209	14804								
		STD	0300	0602	3500	2757	0005687	0238	14801								
130		OBS	T0361	0566	35003	2762			14797								
		STD	0400	0538	3499	2764	0005090	0292	14791								
130		OBS	0450	0508	34980	2767			14787								
		STD	0500	0488	3497	2769	0004751	0342	14787								
130		OBS	T0538	0474	34969	2770			14788								
		STD	0600	0451	3496	2772	0004495	0388	14788								
		STD	0700	0419	3494	2774	0004369	0432	14791								
130		OBS	0714	0415	34939	2774			14792								
		STD	0800	0392	3492	2775	0004298	0475	14796								
130		OBS	T0892	0373	34904	2776			14804								
		STD	0900	0373	3491	2776	0004274	0518	14805								
		STD	1000	0369	3491	2777	0004253	0561	14820								
		STD	1100	0365	3492	2778	0004223	0603	14835								
		STD	1200	0360	3493	2779	0004198	0645	14850								
		STD	1300	0356	3494	2780	0004170	0687	14865								
		STD	1400	0352	3495	2781	0004134	0729	14880								
130		OBS	T1403	0352	34947	2781			14881								

TABLE V.—Continued

REFERENCE CRUISE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WASSEN SQUARE 10° 1'	STATION TIME (GMT)			YEAR	ORIGINATOR'S STATION NUMBER		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TFR SKY	MODC STATION NUMBER
					MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			
311159	BX	5252 N	03519 W	184	25	09	08 132	1967	C15	013	2926	16	12	2			3 7	0013
				WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. MM	DIR.	WIND OR FORCE	DRY BULB	WET BULB									
							12 508	122	139	133	7	14						

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTN. M. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S CODE
		STD	0000	1094	3487	2670	0013481	0000	14936								
		OBS	0000	1094	34869	2670			14936								
		STD	0010	1088	3487	2671	0013402	0013	14936								
		OBS	0010	1088	34869	2671			14936								
		STD	0020	1077	3487	2673	0013252	0027	14933								
		OBS	0030	1068	3487	2675	0013129	0040	14932								
		STD	0033	1065	34865	2675			14931								
		OBS	0050	1059	3487	2676	0013030	0066	14932								
		STD	0053	1050	34865	2678			14929								
		OBS	0075	0905	3493	2707	0010109	0095	14880								
		STD	0078	0887	34932	2711			14874								
		OBS	0100	0771	3497	2731	0007873	0118	14834								
		STD	0104	0755	34973	2734			14829								
		OBS	0125	0722	3496	2738	0007307	0136	14819								
		STD	0150	0691	3495	2741	0007038	0154	14811								
		OBS	0155	0686	34942	2741			14810								
		STD	0200	0661	3499	2749	0006382	0188	14808								
		OBS	T0208	0657	34995	2749			14808								
		STD	0250	0637	3500	2752	0006098	0219	14807								
		OBS	0300	0611	3500	2756	0005818	0249	14805								
		STD	0400	0554	3500	2763	0005200	0304	14798								
		OBS	T0407	0550	35002	2764			14798								
		STD	0500	0489	3498	2769	0004726	0354	14788								
		OBS	0506	0486	34973	2769			14787								
		STD	0600	0448	3497	2773	0004422	0399	14787								
		OBS	T0606	0446	34964	2773			14787								
		STD	0700	0419	3494	2774	0004369	0443	14791								
		OBS	0800	0397	3493	2776	0004282	0487	14799								
		STD	0814	0394	34928	2776			14800								
		OBS	0900	0385	3493	2777	0004255	0529	14810								
		STD	1000	0375	3493	2777	0004240	0572	14823								
		OBS	T1025	0373	34925	2778			14826								
		STD	1100	0367	3493	2779	0004194	0614	14836								
		OBS	1200	0359	3493	2779	0004181	0656	14850								
		STD	1300	0353	3493	2780	0004189	0698	14864								
		OBS	1400	0347	3494	2781	0004122	0739	14878								
		STD	1500	0343	3494	2782	0004150	0781	14893								
		OBS	T1554	0341	34945	2782			14902								

REFERENCE CRUISE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WASSEN SQUARE 10° 1'	STATION TIME (GMT)			YEAR	ORIGINATOR'S STATION NUMBER		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER
					MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER			
311159	BX	5249 N	03533 W	184	25	09	09 131	1967	C15	014	3566	12	21	1			45 7 8	0014
				WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. MM	DR.	WIND OR FORCE	DRY BULB	WET BULB									
							18 507	041	139	133	2	14						

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTN. M. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S CODE
		STD	0000	1112	3485	2665	0013961	0000	14942								
		OBS	0000	1112	34846	2665			14942								
		STD	0008	1097	34856	2669			14938								
		OBS	0010	1094	3486	2669	0013593	0014	14937								
		STD	0020	1082	3486	2672	0013396	0027	14935								
		OBS	0024	1077	34860	2673			14934								
		STD	0030	1073	3486	2674	0013244	0041	14933								
		OBS	0037	1064	34864	2675			14931								
		STD	0050	1052	3487	2678	0012875	0067	14929								
		OBS	0058	1016	34883	2685			14918								
		STD	0075	0863	3496	2716	0009283	0094	14865								
		OBS	0076	0854	34959	2718			14862								
		STD	0100	0771	3497	2731	0007873	0116	14834								
		OBS	0114	0736	34972	2737			14823								
		STD	0125	0722	3498	2739	0007158	0135	14819								
		OBS	0150	0695	3499	2744	0006758	0152	14813								
		STD	T0152	0693	34991	2744			14813								
		OBS	0200	0677	3501	2748	0006462	0185	14814								
		STD	0250	0654	3503	2752	0006106	0217	14814								
		OBS	0293	0629	35040	2757			14811								
		STD	0300	0624	3504	2757	0005675	0246	14810								
		OBS	0367	0575	35003	2761			14801								
		STD	0400	0546	3499	2763	0005189	0300	14795								
		OBS	T0432	0521	34974	2765			14790								
		STD	0500	0490	3497	2768	0004775	0350	14788								
		OBS	0584	0457	34968	2772			14788								
		STD	0600	0451	3496	2772	0004495	0396	14788								
		OBS	0700	0418	3494	2774	0004357	0441	14791								
		STD	T0741	0407	34938	2775			14793								
		OBS	0800	0401	3494	2776	0004275	0484	14800								
		STD	0900	0390	3494	2777	0004259	0527	14813								
		OBS	1000	0380	3493	2778	0004231	0569	14825								
		STD	1100	0369	3493	2779	0004207	0611	14837								
		OBS	T1198	0359	34930	2779			14849								

TABLE V.—Continued

REFERENCE CIR CODE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	MARSSEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER						
					10"	1"	MO	DAY		H	M							S	CRUISE NO.	STATION NUMBER			
311159	BX	5244 N	03533 W	184	25	09	10	132	1967	C15	015	3840	15	24	1	6 7	0015						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S C							
																	WATER	WIND	BARO- METER (mm)	AB TEMP. °C	VIL CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS

TABLE V.—Continued

[illegible][illegible]

TABLE V.—Continued

REFERENCE FORM NO.	SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODE STATION NUMBER
						CRUISE NO.	STATION NUMBER					

311159 BX	5238 N	03518 W	186 25 09 14 131	1967	C15 019	3200	14	26	2		8 5	0019

WATER COLOR CODE	WIND DIR. SPEED OF FORCE	BARO- METER (mb)	DRY BULB TEMP °C	WET BULB TEMP °C	VIS- IBILITY CODE	NO. OF OBS DEPTHS	SPECIAL OBSERVATIONS
27	S12	159	128	122	7	14	

INTERFER- ENCE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DTN IN S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -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	TCC
		STD	0000	1096	3482	2666	0013855	0000	14936								
131		OBS	0000	1096	34823	2666			14936								
131		OBS	0009	1099	34830	2666			14939								
		STD	0010	1099	3483	2666	0013876	0014	14939								
		STD	0020	1097	3483	2666	0013896	0028	14940								
		STD	0030	1096	3483	2667	0013910	0042	14941								
131		OBS	0030	1096	34825	2667			14941								
131		OBS	0043	1056	34861	2677			14929								
		STD	0050	0996	3489	2689	0011799	0067	14909								
131		OBS	0064	0892	34928	2709			14874								
		STD	0075	0827	3494	2721	0008859	0093	14851								
131		OBS	0086	0775	34947	2729			14833								
		STD	0100	0744	3495	2736	0007643	0114	14823								
		STD	0125	0700	3496	2741	0007008	0132	14811								
131		OBS	0126	0699	34962	2741			14810								
		STD	0150	0677	3497	2745	0006665	0149	14806								
131		OBS	T0164	0665	34974	2747			14803								
		STD	0200	0664	3498	2748	0006467	0182	14809								
		STD	0250	0651	3500	2750	0006267	0214	14812								
		STD	0300	0626	3501	2755	0005909	0244	14811								
131		OBS	T0332	0603	35021	2759			14807								
		STD	0400	0533	3497	2763	0005177	0300	14789								
131		OBS	0416	0519	34960	2764			14786								
131		OBS	T0498	0460	34937	2769			14775								
		STD	0500	0459	3494	2769	0004652	0349	14775								
		STD	0600	0432	3493	2771	0004524	0395	14780								
131		OBS	0675	0414	34918	2773			14785								
		STD	0700	0409	3492	2773	0004408	0439	14787								
		STD	0800	0391	3493	2776	0004249	0483	14796								
131		OBS	T0860	0382	34928	2777			14802								
		STD	0900	0376	3493	2778	0004142	0525	14807								
		STD	1000	0364	3493	2779	0004088	0566	14818								
		STD	1100	0355	3493	2780	0004065	0607	14831								
		STD	1200	0348	3493	2780	0004063	0647	14845								
		STD	1300	0345	3493	2781	0004106	0688	14860								
		STD	1400	0344	3493	2781	0004172	0729	14877								
131		OBS	T1400	0344	34928	2781			14877								

REFERENCE FORM NO.	SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODE STATION NUMBER
						CRUISE NO.	STATION NUMBER					

311159 BX	5247 N	03516 W	186 25 09 15 130	1967	C15 020	3383	1	27	3		6 8	0020

NOTE: OVER VOLUME TEMPLATE FOR PLACING ELECTRONICALLY OBSERVED DATA. DATA USE
HEADINGS DERIVED BY AUTOMATIC, WHEN THEY APPLY TO

WATER COLOR CODE	WIND DIR. SPEED OF FORCE	BARO- METER (mb)	DRY BULB TEMP °C	WET BULB TEMP °C	VIS- IBILITY CODE	NO. OF OBS DEPTHS	SPECIAL OBSERVATIONS
32	S18	088	100	089	14		

CAST TIME HR 1/10	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DTN IN S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -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	TCC
	STD	0000	1085	3497	2672	0013351	0000	14933								
130	OBS	0000	1085	34966	2672			14933								
	STD	0010	1084	3487	2672	0013356	0013	14934								
130	OBS	0011	1084	34967	2672			14934								
	STD	0020	1083	3487	2672	0013343	0026	14935								
	STD	0030	1082	3488	2673	0013312	0040	14937								
130	OBS	0034	1082	34879	2673			14937								
	STD	0050	1011	3490	2687	0011987	0065	14915								
130	OBS	0054	0994	34907	2691			14909								
	STD	0075	0903	3497	2711	0009776	0092	14890								
130	OBS	0082	0874	34986	2717			14871								
	STD	0100	0797	3500	2730	0008018	0114	14844								
130	OBS	0108	0769	35006	2734			14835								
	STD	0125	0741	3502	2740	0007120	0133	14827								
	STD	0150	0708	3504	2746	0006575	0150	14819								
130	OBS	0163	0694	35046	2748			14816								
	STD	0200	0673	3506	2752	0006065	0182	14814								
130	OBS	T0218	0663	35058	2754			14813								
	STD	0250	0644	3506	2756	0005750	0212	14810								
	STD	0300	0614	3505	2759	0005482	0240	14807								
	STD	0400	0556	3503	2765	0005025	0292	14799								
130	OBS	T0435	0535	35018	2767			14796								
	STD	0500	0494	3499	2770	0004680	0341	14790								
130	OBS	0543	0472	34975	2771			14788								
	STD	0600	0452	3497	2773	0004451	0386	14789								
130	OBS	0651	0436	34960	2774			14791								
	STD	0700	0425	3495	2774	0004334	0430	14794								
	STD	0800	0405	3494	2776	0004271	0473	14802								
130	OBS	0869	0393	34939	2777			14809								
	STD	0900	0389	3494	2777	0004223	0516	14812								
	STD	1000	0375	3493	2778	0004182	0558	14823								
130	OBS	T1086	0363	34928	2779			14832								
	STD	1100	0361	3493	2779	0004126	0599	14834								
	STD	1200	0348	3494	2782	0003941	0640	14845								
	STD	1300	0335	3497	2785	0003662	0678	14857								
130	OBS	T1313	0333	34976	2786			14858								

TABLE V.—Continued

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TABLE VI.—Observed and interpolated oceanographic data from stations taken by USCGC OWASCO, at Ocean Station CHARLIE, 15 October—2 November 1967, prepared from NODC Listing No. 31-1172.

REF ID NO.	SHIP CODE	LATITUDE	LONGITUDE	WIND DIRECTION	WIND SPEED	STATION TIME	YEAR	ORIGINATOR'S CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODE	NODC STATION NUMBER
311172	OW	52351N	035245W	184	25	10 15 130	1967	C16 001	133	3658	10	02 1	53	6 4	0001
* NOTE: THIS FORM IS TEMPLATE FOR READING ELECTRONICALLY OBSERVED SERIAL DATA (STATION NUMBER, LATITUDE, LONGITUDE, WIND DIRECTION, WIND SPEED, STATION TIME, YEAR, ORIGINATOR'S CRUISE NUMBER, STATION NUMBER, DEPTH TO BOTTOM, MAX. DEPTH OF SAMPLE, WAVE OBSERVATIONS, WEATHER CODE, CLOUD CODE, NODC STATION NUMBER).															
CAST NO.	CAST TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 30 °C	Δ D DYN. M	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	S O ₂ -S	PH
130	STD	0000	0950	3484	2693	0011361	0000	14994							
	OBS	0000	0950	34836	2693			14994							
130	OBS	0009	0949	34835	2693			14995							
	STD	0010	0949	3483	2693	0011373	0011	14985							
	STD	0020	0949	3483	2692	0011430	0022	14986							
130	OBS	0027	0949	34827	2692			14997							
	STD	0030	0949	3483	2692	0011469	0034	14988							
130	OBS	0043	0949	34821	2692			14990							
	STD	0050	0947	3481	2692	0011573	0057	14990							
130	OBS	0063	0909	34803	2697			14978							
	STD	0075	0805	3486	2718	0009102	0083	14842							
130	OBS	0085	0739	34905	2731			14818							
	STD	0100	0709	3494	2738	0007241	0103	14810							
	STD	0125	0671	3498	2746	0006496	0120	14799							
130	OBS	0127	0649	34940	2747			14799							
	STD	0150	0655	3498	2749	0006375	0136	14797							
130	OBS	0170	0643	34980	2750			14796							
	STD	0200	0626	3497	2751	0006107	0167	14794							
	STD	0250	0598	3495	2754	0005957	0197	14790							
	STD	0300	0570	3494	2756	0005755	0227	14787							
130	OBS	0364	0533	34930	2760			14783							
	STD	0400	0511	3493	2763	0005190	0281	14780							
130	OBS	0450	0483	34937	2767			14776							
	STD	0500	0457	3494	2770	0004636	0330	14774							
130	OBS	0537	0441	34934	2771			14773							
	STD	0600	0427	3492	2772	0004504	0376	14778							
	STD	0700	0408	3491	2773	0004456	0421	14786							
130	OBS	0717	0405	34910	2773			14788							
	STD	0800	0395	3492	2775	0004322	0465	14798							
130	OBS	0896	0384	34933	2777			14809							
	STD	0900	0394	3493	2777	0004194	0507	14810							
	STD	1000	0374	3494	2779	0004136	0549	14822							
	STD	1100	0365	3494	2780	0004084	0590	14836							
	STD	1200	0358	3494	2781	0004041	0631	14849							
	STD	1300	0352	3495	2792	0004026	0671	14864							
130	OBS	T1366	0349	34954	2782			14974							

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WIND DIRECTION	WIND SPEED	STATION TIME	YEAR	ORIGINATOR'S CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODE	NODC STATION NUMBER
311172	OW	52426N	035341W	184	25	10 16 126	1967	C16 002	136	3658	10	02 1	53	6 4	0002
CAST NO.	CAST TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 30 °C	Δ D DYN. M	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	S O ₂ -S	PH
126	STD	0000	0942	3481	2692	0011398	0000	14880							
	OBS	0000	0942	34813	2692			14880							
126	OBS	0009	0934	34822	2694			14879							
	STD	0010	0934	3482	2694	0011227	0011	14879							
	STD	0020	0935	3482	2694	0011241	0023	14881							
	STD	0030	0935	3483	2695	0011245	0034	14883							
126	OBS	0032	0935	34827	2695			14883							
126	OBS	0047	0935	34837	2695			14886							
	STD	0050	0924	3484	2697	0011042	0056	14882							
126	OBS	0073	0815	34840	2715			14845							
	STD	0075	0798	3484	2717	0009172	0081	14839							
126	OBS	0096	0667	34851	2737			14791							
	STD	0100	0668	3487	2738	0007207	0102	14792							
	STD	0125	0671	3494	2743	0006771	0119	14799							
126	OBS	0145	0674	34984	2746			14804							
	STD	0150	0673	3499	2747	0006463	0136	14804							
	STD	0200	0657	3500	2750	0006285	0168	14806							
126	OBS	T0200	0657	34996	2750			14806							
	STD	0250	0618	3498	2753	0005970	0198	14799							
	STD	0300	0582	3497	2757	0005656	0227	14793							
126	OBS	T0389	0526	34944	2762			14784							
	STD	0400	0520	3494	2763	0005219	0282	14784							
126	OBS	0485	0477												
	STD	0500	0471	3494	2768	0004793	0332	14780							
126	OBS	T0582	0442												
	STD	0600	0439	3493	2771	0004576	0379	14783							
	STD	0700	0421	3492	2772	0004511	0424	14792							
126	OBS	0777	0407												
	STD	0800	0403	3492	2774	0004449	0469	14801							
	STD	0900	0386	3491	2775	0004393	0513	14810							
126	OBS	T0964	0375	34906	2776			14816							

TABLE VI.—Continued

REFERENCE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	M/RSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																								
						10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR.	HC	PER	SEA																										
311172	OW		52443N	035302W	184	25	10	17 128	1967	C16	003	3566	15	24	2			6 4	0003																								
<table> <tr> <th>WATER</th><th>WIND</th><th>BARO- METER</th><th>AB TEMP °C</th><th>NO. OBS. DEPTHS</th><th>SPECIAL OBSERVATIONS</th></tr> <tr> <td>COLOR CODE</td><td>DR.</td><td>DRY BULB</td><td>WET BULB</td><td>VIS CODE</td><td></td></tr> <tr> <td></td><td>24</td><td>510</td><td>250</td><td>089</td><td>072</td></tr> <tr> <td></td><td></td><td></td><td></td><td>7</td><td>14</td></tr> </table>																				WATER	WIND	BARO- METER	AB TEMP °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	DR.	DRY BULB	WET BULB	VIS CODE			24	510	250	089	072					7	14
WATER	WIND	BARO- METER	AB TEMP °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																						
COLOR CODE	DR.	DRY BULB	WET BULB	VIS CODE																																							
	24	510	250	089	072																																						
				7	14																																						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S & D DYN. M. S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	C																										
		STD	0000	0933	3481	2694	0011250	0000	14877																																		
128		OBS	0000	0933	34814	2694			14877																																		
		STD	0010	0930	3481	2694	0011231	0011	14877																																		
128		OBS	0010	0930	34813	2694			14877																																		
		STD	0020	0930	3483	2696	0011120	0022	14879																																		
		STD	0030	0929	3484	2697	0011058	0034	14881																																		
128		OBS	0032	0929	34842	2697			14881																																		
		STD	0050	0919	3486	2700	0010772	0055	14881																																		
128		OBS	0050	0919	34863	2700			14881																																		
		STD	0075	0853	3498	2719	0008977	0080	14861																																		
128		OBS	0076	0848	34980	2720			14860																																		
		STD	0100	0693	3485	2733	0007729	0101	14802																																		
128		OBS	0100	0693	34845	2733			14802																																		
		STD	0125	0645	3486	2740	0007026	0119	14788																																		
		STD	0150	0612	3488	2746	0006501	0136	14779																																		
128		OBS	0150	0612	34879	2746			14779																																		
		STD	0200	0589	3490	2751	0006135	0168	14778																																		
128		OBS	T0201	0588	34898	2751			14778																																		
		STD	0250	0558	3491	2756	0005737	0198	14774																																		
		STD	0300	0531	3491	2759	0005473	0226	14771																																		
128		OBS	0391	0492	34922	2764			14770																																		
		STD	0400	0489	3492	2765	0004996	0278	14771																																		
128		OBS	0486	0464	34930	2768			14775																																		
		STD	0500	0460	3493	2769	0004715	0326	14775																																		
128		OBS	T0575	0440	34930	2771			14779																																		
		STD	0600	0433	3493	2772	0004506	0373	14781																																		
		STD	0700	0409	3492	2773	0004401	0417	14787																																		
128		OBS	0767	0397	34916	2774			14793																																		
		STD	0800	0393	3492	2775	0004332	0461	14797																																		
		STD	0900	0383	3492	2776	0004298	0504	14809																																		
128		OBS	T0959	0377	34919	2777			14817																																		
		STD	1000	0373	3492	2777	0004253	0547	14822																																		
		STD	1100	0364	3492	2778	0004232	0589	14835																																		
		STD	1200	0356	3493	2780	0004145	0631	14848																																		
		STD	1300	0349	3493	2780	0004140	0672	14862																																		
		STD	1400	0343	3493	2781	0004145	0714	14876																																		
128		OBS	T1481	0339	34936	2782			14888																																		

REFERENCE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	M/RSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																								
311172	OW		52539N	035209W	184	25	10	18 127	1967	C16	004	2926	16	19	3			20 5 8	0004																								
<table> <tr> <th>WATER</th><th>WIND</th><th>BARO- METER</th><th>AB TEMP °C</th><th>NO. OBS. DEPTHS</th><th>SPECIAL OBSERVATIONS</th></tr> <tr> <td>COLOR CODE</td><td>DR.</td><td>DRY BULB</td><td>WET BULB</td><td>VIS CODE</td><td></td></tr> <tr> <td></td><td>18</td><td>518</td><td>010</td><td>094</td><td>089</td></tr> <tr> <td></td><td></td><td></td><td></td><td>6</td><td>14</td></tr> </table>																				WATER	WIND	BARO- METER	AB TEMP °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	DR.	DRY BULB	WET BULB	VIS CODE			18	518	010	094	089					6	14
WATER	WIND	BARO- METER	AB TEMP °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																						
COLOR CODE	DR.	DRY BULB	WET BULB	VIS CODE																																							
	18	518	010	094	089																																						
				6	14																																						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S & D DYN. M. S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	C																										
		STD	0000	0946	3478	2689	0011713	0000	14881																																		
127		OBS	0000	0946	34779	2689			14881																																		
		STD	0010	0941	3478	2690	0011649	0012	14881																																		
127		OBS	0011	0940	34779	2690			14881																																		
		STD	0020	0940	3478	2690	0011652	0023	14882																																		
		STD	0030	0940	3479	2691	0011599	0035	14884																																		
127		OBS	0034	0940	34792	2691			14885																																		
		STD	0050	0934	3482	2694	0011324	0058	14886																																		
127		OBS	0053	0926	34824	2696			14883																																		
		STD	0075	0782	3484	2720	0008950	0083	14833																																		
127		OBS	0080	0758	34842	2723			14824																																		
		STD	0100	0703	3486	2732	0007751	0104	14806																																		
127		OBS	0109	0683	34874	2736			14800																																		
		STD	0125	0661	3488	2740	0007085	0123	14794																																		
		STD	0150	0638	3490	2745	0006676	0140	14789																																		
127		OBS	0162	0633	34925	2747			14790																																		
		STD	0200	0650	3504	2754	0005866	0171	14804																																		
127		OBS	T0216	0653	35081	2757			14809																																		
		STD	0250	0620	3507	2760	0005341	0199	14801																																		
		STD	0300	0579	3505	2764	0005038	0225	14792																																		
		STD	0400	0516	3501	2768	0004679	0274	14783																																		
127		OBS	T0419	0507	35001	2769			14782																																		
		STD	0500	0485	3500	2771	0004492	0320	14786																																		
127		OBS	0524	0477	34998	2772			14787																																		
		STD	0600	0443	3494	2771	0004549	0365	14785																																		
127		OBS	T0629	0432	34926	2771			14785																																		
		STD	0700	0413	3491	2772	0004522	0410	14789																																		
		STD	0800	0392	3490	2774	0004446	0455	14796																																		
127		OBS	0839	0385	34896	2774			14800																																		
		STD	0900	0379	3490	2775	0004407	0499	14807																																		
		STD	1000	0371	3490	2776	0004392	0543	14821																																		
127		OBS	T1047	0367	34899	2776			14827																																		
		STD	1100	0363	3490	2777	0004367	0587	14834																																		
		STD	1200	0356	3491	2778	0004292	0630	14848																																		
		STD	1300	0350	3492	2780	0004226	0673	14862																																		
		STD	1400	0345	3493	2781	0004170	0715	14877																																		
		STD	1500	0341	3494	2782	0004125	0756	14893																																		
127		OBS	T1622	0337	34964	2784			14912																																		

TABLE VI.—Continued

REFERENCE CRUISE ID. NO.	SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	WADSWORTH SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S CRUISE NO. STATION NUMBER		DEPTH TO BOTTOM	MAX. DEPTH OF SWELL	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODES (TYPE, AMT)	WDOC STATION NUMBER		
					10'	1°		MO	DAY			HR	1/10	NO.	NUMBER				DIR.	PER
311173	OW	52430N	035320W	184	25	10	20	184	1967	C16	005	3841	35	31	3		6	8	0005	
				WATER	WIND	BARO- METER (MMHG)	AIR TEMP. °C	VIB CODE		SPECIAL OBSERVATIONS										
				COLOR CODE	WAVE HT (M)	DIR. OF FORCE	DRY RULE	WET RULE	NO. OF DEPTH											
				00	500	220	083	072	7	18										
MESSAGE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Δ D DYN. M ± 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	S CTD			
		STD	0000	0968	3468	2678	0012764	0000	14888											
125		OBS	0000	0968	34684	2678			14888											
		STD	0010	0933	3471	2686	0012026	0012	14877											
125		OBS	0010	0933	34712	2686			14877											
		STD	0020	0933	3475	2689	0011757	0024	14879											
		STD	0030	0932	3477	2691	0011623	0036	14881											
125		OBS	0031	0932	34777	2691			14881											
		STD	0050	0927	3480	2694	0011363	0059	14883											
125		OBS	0052	0921	34804	2695			14881											
		STD	0075	0774	3486	2722	0008673	0084	14830											
125		OBS	0078	0760	34870	2725			14825											
		STD	0100	0694	3485	2733	0007683	0104	14803											
125		OBS	0103	0687	34851	2734			14800											
		STD	0125	0660	3486	2739	0007206	0123	14793											
		STD	0150	0627	3488	2744	0006721	0140	14785											
125		OBS	0155	0620	34877	2745			14783											
		STD	0200	0551	3486	2753	0005929	0172	14762											
125		OBS	T0208	0541	34862	2754			14759											
		STD	0250	0516	3488	2758	0005456	0201	14756											
		STD	0300	0489	3489	2762	0005126	0227	14754											
		STD	0400	0451	3491	2768	0004652	0276	14755											
125		OBS	T0408	0449	34912	2768			14755											
		STD	0500	0432	3492	2771	0004466	0321	14763											
125		OBS	0507	0431	34923	2771			14764											
		STD	0600	0422	3493	2773	0004393	0366	14776											
125		OBS	T0612	0421	34929	2773			14777											
		STD	0700	0411	3493	2774	0004380	0410	14788											
		STD	0800	0399	3492	2775	0004365	0453	14799											
125		OBS	0812	0397																
		STD	0900	0383	3492	2776	0004298	0497	14809											
		STD	1000	0370	3491	2777	0004262	0539	14820											
125		OBS	T1020	0368	34913	2777			14823											
		STD	1100	0367	3492	2778	0004268	0582	14836											
		STD	1200	0365	3493	2779	0004254	0625	14852											
		STD	1300	0362	3493	2779	0004301	0668	14868											
		STD	1400	0357	3494	2780	0004247	0710	14882											
		STD	1500	0351	3494	2781	0004251	0753	14897											
125		OBS	T1523	0350	34943	2781			14900											
		STD	1750	0329	3495	2784	0004086	0857	14930											
184		OBS	T1874	0320	34956	2785			14947											
		STD	2000	0313	3496	2786	0004003	0958	14966											
184		OBS	T2355	0300	34960	2787			15021											
		STD	2500	0298	3497	2788	0004033	1159	15045											
184		OBS	2825	0295	34977	2789			15100											
		STD	3000	0294	3498	2789	0004236	1366	15130											
184		OBS	T3457	0293	34976	2789			15209											

TABLE VI.—Continued

REFERENCE CITE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARESDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER
							CRUISE NO.	STATION NUMBER			DIR.	PER	SEA			
311172	OW	5246 N	03515 W	184	25 10 29 125	1967	C16	008	3292	15	28	2		6	7	0008
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	S.D.D. DYN. M. E 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH
		STD	0000	0899	3474	2693	0011289	0000	14863							
125	OBS	0000	0899	34738	2693				14863							
	STD	0010	0895	3474	2694	0011248	0011	14863								
125	OBS	0010	0895	34738	2694				14863							
	STD	0020	0895	3474	2694	0011260	0023	14865								
	STD	0030	0894	3474	2694	0011265	0034	14866								
125	OBS	0030	0894	34739	2694				14866							
	STD	0050	0893	3474	2695	0011274	0056	14869								
125	OBS	0050	0893	34741	2695				14869							
125	OBS	0074	0871	34751	2699				14865							
	STD	0075	0865	3475	2700	0010810	0084	14863								
125	OBS	0099	0737	34809	2724				14819							
	STD	0100	0733	3481	2724	0008531	0108	14817								
	STD	0125	0646	3482	2737	0007337	0128	14787								
125	OBS	0148	0588	34825	2745				14768							
	STD	0150	0586	3483	2746	0006542	0145	14768								
125	OBS	T0198	0536	34846	2753				14755							
	STD	0200	0535	3485	2754	0005842	0176	14755								
	STD	0250	0506	3487	2759	0005414	0204	14752								
	STD	0300	0483	3488	2762	0005131	0231	14751								
125	OBS	0396	0452	34908	2768				14754							
	STD	0400	0452	3491	2768	0004663	0280	14755								
125	OBS	0494	0439	34927	2771				14765							
	STD	0500	0438	3493	2771	0004460	0325	14766								
125	OBS	T0594	0417	34933	2774				14773							
	STD	0600	0416	3493	2774	0004310	0369	14773								
	STD	0700	0398	3493	2775	0004200	0412	14782								
125	OBS	0792	0384	34922	2776				14792							
	STD	0800	0383	3492	2776	0004179	0454	14793								
	STD	0900	0371	3492	2777	0004173	0495	14804								
125	OBS	0992	0362	34910	2778				14816							
	STD	1000	0362	3491	2778	0004195	0537	14817								
	STD	1100	0359	3492	2778	0004201	0579	14833								
	STD	1200	0356	3492	2779	0004206	0621	14848								
	STD	1300	0353	3493	2780	0004216	0663	14864								
	STD	1400	0351	3493	2780	0004218	0706	14880								
125	OBS	T1494	0348	34938	2781				14894							

REFERENCE CITE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARESDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER
							CRUISE NO.	STATION NUMBER			DIR.	PER	SEA			
311172	OW	52415N	035290W	184	25 10 30 125	1967	C16	009	3518	14	27	2		6	6	0009
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	S.D.D. DYN. M. E 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH
		STD	0000	0896	3474	2694	0011214	0000	14862							
125	OBS	0000	0896	34742	2694				14862							
	STD	0010	0894	3474	2694	0011225	0011	14863								
125	OBS	0010	0894	34739	2694				14863							
	STD	0020	0885	3478	2699	0010805	0022	14862								
	STD	0030	0879	3481	2702	0010548	0033	14862								
125	OBS	0030	0879	34805	2702				14862							
125	OBS	0048	0879	34807	2702				14865							
	STD	0050	0879	3481	2702	0010547	0054	14865								
125	OBS	0072	0877	34828	2704				14868							
	STD	0075	0868	3482	2705	0010359	0080	14865								
125	OBS	0095	0802	34809	2714				14863							
	STD	0100	0775	3482	2719	0009044	0104	14834								
	STD	0125	0670	3487	2738	0007277	0125	14798								
125	OBS	0145	0619	34904	2747				14781							
	STD	0150	0619	3491	2748	0006358	0142	14782								
125	OBS	T0193	0618	34972	2753				14789							
	STD	0200	0612	3497	2753	0005895	0172	14788								
	STD	0250	0569	3496	2758	0005500	0201	14779								
	STD	0300	0533	3495	2762	0005200	0228	14772								
125	OBS	T0384	0487	34944	2767				14767							
	STD	0400	0482	3495	2768	0004713	0277	14768								
125	OBS	0476	0458	34957	2771				14771							
	STD	0500	0449	3495	2772	0004438	0323	14771								
125	OBS	T0566	0428	34945	2773				14773							
	STD	0600	0420	3494	2774	0004281	0367	14775								
	STD	0700	0400	3493	2775	0004223	0409	14783								
125	OBS	0765	0390	34921	2776				14790							
	STD	0800	0386	3492	2776	0004228	0451	14794								
	STD	0900	0376	3492	2777	0004201	0494	14806								
125	OBS	0959	0371	34919	2777				14814							
	STD	1000	0368	3492	2778	0004194	0536	14820								
	STD	1100	0361	3492	2778	0004196	0577	14833								
	STD	1200	0356	3492	2779	0004218	0620	14848								
	STD	1300	0352	3493	2780	0004177	0662	14863								
	STD	1400	0350	3493	2780	0004232	0704	14879								
125	OBS	T1445	0350	34935	2781				14887							

TABLE VI.—Continued

REFERENCE SHIP CODE	SHIP CODE	LATITUDE 1°18'	LONGITUDE 1°18'	HARSEN SQUARE 18°	STATION TIME 10 MT MO DAY HR 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			CLOUD CODES	WDC STATION NUMBER		
							CRUISE NO.	STATION NUMBER			DR	HGT	PER				
311172	OW	5240 N	03526 W	184	25 10 31 128	1967	C16	010	3658	13	29	2		5 8	0010		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CTD
							AB TEMP °C	WET BULB									
		STD	0000	0901	3475	2694	0011208	0000	14864								
	128	OBS	0000	0901	34753	2694			14864								
		STD	0010	0897	3475	2695	0011152	0011	14864								
	128	OBS	0011	0896	34754	2695			14864								
		STD	0020	0896	3475	2695	0011158	0022	14866								
		STD	0030	0895	3476	2695	0011163	0033	14867								
	128	OBS	0032	0895	34755	2695			14867								
	128	OBS	0047	0891	34769	2697			14868								
		STD	0050	0889	3478	2698	0010926	0056	14868								
	128	OBS	0069	0877	34825	2704			14868								
		STD	0075	0864	3482	2705	0010298	0082	14864								
	128	OBS	0090	0818	34813	2712			14868								
		STD	0100	0753	3482	2722	0008734	0106	14825								
		STD	0125	0631	3484	2741	0006996	0126	14782								
	128	OBS	0130	0613	34846	2744			14775								
		STD	0150	0583	3485	2747	0006386	0142	14767								
	128	OBS	T0172	0555	34847	2751			14759								
		STD	0200	0553	3488	2754	0005836	0173	14763								
		STD	0250	0550	3494	2759	0005417	0201	14771								
		STD	0300	0547	3497	2762	0005221	0228	14778								
	128	OBS	T0345	0544	34988	2763			14785								
		STD	0400	0516	3498	2766	0004880	0278	14782								
	128	OBS	0419	0504	34980	2768			14781								
	128	OBS	T0496	0442	34934	2771			14767								
		STD	0500	0441	3493	2771	0004465	0325	14767								
		STD	0600	0413	3493	2774	0004298	0369	14772								
	128	OBS	0674	0399	34921	2775			14778								
		STD	0700	0397	3492	2775	0004248	0411	14782								
		STD	0800	0390	3493	2776	0004215	0454	14796								
	128	OBS	0850	0386	34931	2777			14802								
		STD	0900	0382	3493	2777	0004190	0496	14809								
		STD	1000	0375	3493	2778	0004196	0538	14823								
		STD	1100	0367	3493	2779	0004186	0580	14836								
		STD	1200	0360	3493	2779	0004193	0621	14850								
	128	OBS	T1292	0353	34930	2780			14862								

REFERENCE SHIP CODE	SHIP CODE	LATITUDE 1°18'	LONGITUDE 1°18'	HARSEN SQUARE 18°	STATION TIME 10 MT MO DAY HR 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			CLOUD CODES	WDC STATION NUMBER		
							CRUISE NO.	STATION NUMBER			DR	HGT	PER				
311172	OW	5241 N	03533 W	184	25 11 02 125	1967	C16	011	3658	17	29	3		6 8	0011		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CTD
							AB TEMP °C	WET BULB									
		STD	0000	0874	3477	2700	0010696	0000	14854								
	125	OBS	0000	0874	34767	2700			14854								
		STD	0010	0873	3477	2700	0010687	0011	14856								
	125	OBS	0011	0873	34769	2700			14856								
		STD	0020	0876	3477	2700	0010743	0021	14858								
		STD	0030	0879	3479	2701	0010659	0032	14861								
	125	OBS	0034	0880	34794	2701			14863								
		STD	0050	0886	3485	2704	0010359	0053	14868								
	125	OBS	0053	0887	34856	2705			14869								
		STD	0075	0800	3486	2718	0009067	0077	14840								
	125	OBS	0080	0779	34860	2722			14833								
		STD	0100	0684	3485	2734	0007594	0098	14799								
	125	OBS	0108	0655	34841	2738			14788								
		STD	0125	0626	3485	2742	0006858	0116	14780								
		STD	0150	0594	3486	2747	0006417	0133	14771								
	125	OBS	0162	0584	34864	2749			14769								
		STD	0200	0578	3489	2751	0006065	0164	14773								
	125	OBS	0215	0575	34897	2752			14775								
		STD	0250	0544	3490	2756	0005663	0193	14768								
		STD	0300	0506	3490	2761	0005265	0221	14761								
		STD	0400	0456	3490	2767	0004791	0271	14757								
	125	OBS	T0431	0447	34899	2768			14758								
		STD	0500	0446	3493	2770	0004552	0318	14769								
	125	OBS	0541	0441	34944	2772			14774								
		STD	0600	0423	3494	2774	0004316	0362	14776								
	125	OBS	T0652	0409	34932	2774			14779								
		STD	0700	0402	3493	2775	0004246	0405	14784								
		STD	0800	0388	3492	2776	0004222	0447	14795								
	125	OBS	0882	0378	34920	2777			14804								
		STD	0900	0376	3492	2777	0004201	0489	14806								
		STD	1000	0367	3492	2778	0004197	0531	14819								
		STD	1100	0358	3492	2778	0004197	0573	14832								
	125	OBS	1117	0357	34915	2778			14835								
		STD	1200	0351	3492	2779	0004158	0615	14846								
		STD	1300	0345	3492	2780	0004165	0657	14860								
		STD	1400	0341	3493	2781	0004120	0698	14876								
		STD	1500	0337	3493	2782	0004148	0739	14891								
	125	OBS	T1724	0334	34958	2784			14928								

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[illegible]

TABLE VIII.—Observed and interpolated oceanographic data from stations taken by USCGC ESCANABA, at Ocean Station CHARLIE, 11 January—31 January 1968, prepared from NODC Listing No. 31-1201.

REFERENCE TIME NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SOUND SQUARE 10'	STATION TIME (GMT)				YEAR	ORIGINATOR'S CALL SIGN STATION NUMBER		DEPTH TO BOTTOM	MAX DEPTH OF SOUNDING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
					MO	DAY	HR	10		NO	NUMBER			DIR	NO	SEA						
311201	EN	5245 N	03530 W	184	25	01	11	138	1968	C18	001	3292	14	26	3	3	X1	3	6	0001		
					WIND				AS TEMP °C													
					COLOR CODE		TEAMS		DIR.	SPEED OF FORCE		BARO-METER (mb)		WET BULB		HF CODE	SPECIAL OBSERVATIONS					
					08		523		064	067		061		7		14						
MESSAGE NO HR 1/10	CA-T NO.	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T		SPECIFIC VOLUME ANDWALT-1018		$\frac{\Delta D}{D}$ DN x 10 ³	SOUND VELOC IT	O ₂ ml/l	PO ₂ -P #8 - 01/1	TOTAL-P #8 01	NO ₂ -N #8 - 01	NO ₃ -N #8 01 1	SiO ₄ -Si #8 - 01/1	PH	S C			
		STD	0000	0745	3467	2711		0009598		0000	14804											
138		OBS	0000	0745	34666	2711					14804											
138		OBS	0009	0741	34668	2712					14804											
		STD	0010	0741	3467	2712		0009546		0010	14804											
		STD	0020	0741	3467	2712		0009555		0019	14805											
138		OBS	0029	0737	34669	2713					14805											
		STD	0030	0735	3467	2713		0009498		0029	14805											
138		OBS	0045	0719	34658	2714					14801											
		STD	0050	0719	3466	2715		0009373		0048	14802											
138		OBS	0067	0718	34666	2715					14804											
		STD	0075	0716	3473	2720		0008851		0070	14806											
138		OBS	0090	0712	34822	2728					14808											
		STD	0100	0688	3484	2733		0007699		0091	14800											
		STD	0125	0644	3489	2743		0006790		0109	14788											
138		OBS	0135	0632	34906	2746					14785											
		STD	0150	0629	3493	2748		0006437		0126	14786											
138		OBS	T0182	0620	34973	2753					14788											
		STD	0200	0602	3497	2755		0005768		0156	14784											
		STD	0250	0559	3495	2759		0005451		0184	14775											
		STD	0300	0525	3494	2762		0005178		0210	14769											
138		OBS	T0365	0493	34934	2765					14767											
		STD	0400	0487	3494	2766		0004846		0261	14770											
138		OBS	0449	0473	34942	2768					14772											
		STD	0500	0443	3492	2770		0004592		0308	14768											
138		OBS	T0536	0428	34908	2770					14768											
		STD	0600	0427	3492	2771		0004518		0353	14778											
		STD	0700	0420	3494	2774		0004403		0398	14792											
138		OBS	0717	0418	34940	2774					14794											
		STD	0800	0402	3493	2775		0004341		0442	14801											
138		OBS	0896	0386	34918	2776					14810											
		STD	0900	0386	3492	2776		0004331		0485	14811											
		STD	1000	0380	3492	2777		0004310		0528	14825											
		STD	1100	0374	3493	2778		0004287		0571	14839											
		STD	1200	0367	3493	2779		0004261		0614	14853											
		STD	1300	0361	3494	2780		0004240		0656	14867											
138		OBS	T1353	0358	34940	2780					14875											

MODE (REF. NO.)		LATITUDE		LONGITUDE		STATION TIME (LOCAL)		YEAR		ORGANIZATION		DEPTH		WIND		WAVE		WEATHER		MODE	
COUNTRY CODE	CRN/AL NUMBER	" "	" "	" "	" "	" "	" "	" "	" "	NUMBER	STATION NUMBER	TO	FROM	DIR.	VELOCITY	PERIOD	PERIOD	CODE	TYPE	STATION NUMBER	
31	1201	EN	5227	N	03523	W	184	25	01	12	008	1968	C18	002	3840	1	24	3	X1	7	0002
NOTE: (1) THIS TEMPLATE FOR RECORDING ELECTRONICALLY OBSERVED DATA. DATA MUST BE * RECORDS DURING BY TELETYPE, ONE OF THE FOLLOWING																					
CAST NO.		TIME SUBSTATION		CARD TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	
HEAVILY TIME		CAST NO.		TYPE		DEPTH (m)		TEMP.		SOUND SPEED		WIND		WAVE		WAVE		WEATHER		MODE	

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER
SHIP CODE	ID. NO.					10°	1°	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR	HG	PER			
311201	EN	5224 N	03459 W	184	24 01 14	226	1968	C18	003	28	09	29	3	3	X8	9	4	0003	
		WATER COLOR	TRANS M	DIR.	SPEED OR FORCE	BARO- METER INCH	AIR TEMP °C		VIS CODE	NO. OF DEPTHS	SPECIAL OBSERVATIONS								
							DRY BULB	WET BULB											
						27	527	990	039	022	7	13							
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	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	C	
		STD	0000	0702	3466	2717	0009081	0000	14787										
	226	OBS	0000	0702	34658	2717			14787										
		STD	0010	0699	3466	2717	0009042	0009	14787										
	226	OBS	0010	0699	34660	2717			14787										
		STD	0020	0699	3466	2717	0009058	0018	14789										
		STD	0030	0699	3466	2717	0009074	0027	14791										
	226	OBS	0032	0699	34659	2717			14791										
	226	OBS	0049	0699	34658	2717			14794										
		STD	0050	0699	3466	2717	0009106	0045	14794										
		STD	0075	0700	3467	2718	0009114	0068	14798										
	226	OBS	0075	0700	34666	2718			14798										
	226	OBS	0099	0682	34776	2729			14797										
		STD	0100	0679	3478	2730	0008027	0090	14796										
		STD	0125	0621	3482	2740	0007018	0108	14777										
		STD	0150	0579	3486	2749	0006217	0125	14765										
	226	OBS	0150	0579	34862	2749			14765										
		STD	0200	0550	3491	2757	0005574	0154	14762										
	226	OBS	T0203	0548	34912	2757			14762										
		STD	0250	0524	3492	2760	0005267	0181	14760										
		STD	0300	0501	3492	2764	0005012	0207	14759										
		STD	0400	0457	3494	2769	0004534	0255	14757										
	226	OBS	T0405	0455	34936	2770			14757										
	226	OBS	0497	0420	34909	2771			14758										
		STD	0500	0419	3491	2772	0004393	0300	14758										
	226	OBS	T0586	0404	34914	2774			14766										
		STD	0600	0403	3492	2774	0004236	0343	14768										
		STD	0700	0396	3493	2776	0004177	0385	14782										
	226	OBS	0765	0390	34934	2777			14790										
		STD	0800	0387	3493	2777	0004166	0426	14795										
		STD	0900	0376	3493	2778	0004127	0468	14807										
	226	OBS	T0938	0372	34919	2777			14811										

REFERENCE SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER	
					10°	1°	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR	HG	PER				SEA
311201	EN	52471N	035152W	184	25	01	15 120	1968	C18	004	3155	12	31	2	2	X1	9	6	0004
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		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	
							Δ D	DYN. M. X 10 ³											
		STD	0000	0692	3470	2721	0008658	0000	14783										
	120	OBS	0000	0692	34697	2721			14783										
	120	OBS	0009	0686	34685	2721			14782										
		STD	0010	0686	3469	2721	0008685	0009	14783										
		STD	0020	0686	3468	2721	0008723	0017	14784										
		STD	0030	0686	3468	2721	0008754	0026	14786										
	120	OBS	0030	0686	34680	2721			14786										
	120	OBS	0045	0685	34680	2721			14788										
		STD	0050	0686	3468	2721	0008778	0044	14789										
	120	OBS	0067	0688	34685	2721			14793										
		STD	0075	0688	3469	2721	0008779	0066	14794										
	120	OBS	0089	0687	34695	2722			14796										
		STD	0100	0655	3475	2730	0007937	0086	14786										
		STD	0125	0604	3486	2746	0006506	0105	14771										
	120	OBS	0132	0595	34885	2749			14769										
		STD	0150	0599	3492	2751	0006032	0120	14774										
	120	OBS	T0179	0600	34958	2754			14780										
		STD	0200	0584	3495	2755	0005692	0150	14777										
		STD	0250	0548	3493	2758	0005466	0177	14770										
		STD	0300	0516	3492	2761	0005219	0204	14765										
	120	OBS	T0341	0494	34913	2763			14763										
		STD	0400	0465	3491	2767	0004790	0254	14760										
	120	OBS	0420	0460	34913	2767			14762										
	120	OBS	T0496	0461	34954	2770			14775										
		STD	0500	0460	3495	2770	0004567	0301	14775										
		STD	0600	0434	3495	2773	0004369	0346	14781										
	120	OBS	0656	0420	34943	2774			14785										
		STD	0700	0408	3494	2775	0004263	0389	14787										
		STD	0800	0385	3493	2776	0004179	0431	14794										
	120	OBS	T0813	0383	34923	2776			14795										
		STD	0900	0378	3493	2777	0004183	0473	14807										
		STD	1000	0373	3493	2778	0004175	0515	14822										
		STD	1100	0367	3493	2779	0004172	0556	14836										
		STD	1200	0361	3494	2780	0004166	0598	14851										
	120	OBS	T1243	0359	34938	2780			14857										

TABLE VIII.—Continued

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WIND SPEED 1/10	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
					10'	1"		MO	DAY			HR	1/10	CRUISE NO				STATION NUMBER	DB
311201	EN	5249 N	03521 W	184	25	01	16	121	1968	C18	005	2926	14	28	4	2	X2	4 8	0005
					COLOR CODE	WIND SPEED (kts)	DIR.	SPEED OR FORCE	BARO- METER (mb)	AIR TEMP °C	WET BULB	VIS CODE	NO OBS	SPECIAL OBSERVATIONS					
					21	518	122	056	056	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY m/s	O ₂ ml/l	PO ₂ -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				
	121	STD	0000	0729	3478	2722	0008547	0000	14799										
		OBS	0000	0729	34778	2722			14799										
		STD	0010	0728	3477	2722	0008580	0009	14800										
	121	OBS	0010	0728	34774	2722			14800										
		STD	0020	0729	3477	2722	0008639	0017	14802										
		STD	0030	0730	3477	2721	0008705	0026	14804										
	121	OBS	0032	0730	34764	2721			14804										
	121	OBS	0047	0729	34773	2722			14807										
		STD	0050	0731	3479	2723	0008569	0043	14808										
	121	OBS	0072	0741	34847	2726			14816										
		STD	0075	0741	3485	2726	0008300	0064	14817										
	121	OBS	0097	0740	34852	2727			14820										
		STD	0100	0731	3485	2728	0008184	0085	14817										
		STD	0125	0664	3486	2738	0007295	0104	14795										
	121	OBS	0144	0627	34861	2743			14783										
		STD	0150	0621	3487	2744	0006682	0122	14782										
	121	OBS	0190	0583	34913	2753			14774										
		STD	0200	0575	3491	2754	0005864	0153	14772										
		STD	0250	0540	3491	2758	0005526	0181	14766										
		STD	0300	0511	3491	2761	0005272	0208	14763										
	121	OBS	T0378	0478	34900	2764			14762										
		STD	0400	0474	3491	2766	0004917	0259	14764										
	121	OBS	0471	0457	34926	2769			14769										
		STD	0500	0447	3493	2770	0004601	0307	14770										
	121	OBS	T0558	0430	34924	2772			14772										
		STD	0600	0425	3493	2773	0004413	0352	14777										
		STD	0700	0411	3493	2774	0004350	0396	14788										
	121	OBS	0753	0404	34933	2775			14794										
		STD	0800	0396	3493	2776	0004263	0439	14798										
		STD	0900	0382	3493	2777	0004235	0481	14809										
	121	OBS	T0925	0379	34924	2777			14812										
		STD	1000	0371	3493	2778	0004185	0524	14821										
		STD	1100	0362	3493	2779	0004141	0565	14834										
		STD	1200	0356	3493	2780	0004130	0607	14848										
		STD	1300	0353	3494	2780	0004153	0648	14864										
		STD	1400	0353	3494	2781	0004211	0690	14881										
	121	OBS	T1429	0353	34939	2781			14886										

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WIND SPEED 1/10	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
					10'	1"		CRUISE NO.	STATION NUMBER			DB	HC	PER				SEA	
311201	EN	52505N	03533 W	184	25	01	17	124	1968	C18	006	3795	18	21	3	3	X2	1 8	0006
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY m/s	O ₂ ml/l	PO ₂ -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			
		STD	0000	0690	3470	2722	0008610	0000	14783										
	124	OBS	0000	0690	34700	2722			14783										
		STD	0010	0689	3470	2722	0008615	0009	14784										
	124	OBS	0013	0689	34697	2722			14784										
		STD	0020	0689	3470	2722	0008654	0017	14785										
		STD	0030	0688	3470	2722	0008672	0026	14787										
	124	OBS	0038	0688	34694	2722			14788										
		STD	0050	0688	3470	2722	0008700	0043	14790										
	124	OBS	0059	0687	34695	2722			14791										
		STD	0075	0685	3470	2722	0008698	0065	14793										
	124	OBS	0089	0683	34695	2722			14794										
		STD	0100	0667	3476	2730	0008018	0086	14791										
	124	OBS	0120	0639	34852	2741			14784										
		STD	0125	0632	3486	2742	0006859	0105	14782										
		STD	0150	0603	3490	2749	0006231	0121	14775										
	124	OBS	0179	0576	34930	2755			14770										
		STD	0200	0566	3493	2756	0005619	0151	14769										
	124	OBS	T0238	0547	34931	2759			14768										
		STD	0250	0540	3493	2759	0005369	0178	14767										
		STD	0300	0511	3493	2763	0005085	0204	14763										
		STD	0400	0464	3493	2768	0004652	0253	14760										
	124	OBS	T0478	0437	34924	2771			14762										
		STD	0500	0431	3492	2771	0004425	0298	14763										
	124	OBS	0594	0413	34921	2773			14771										
		STD	0600	0413	3492	2773	0004335	0342	14772										
		STD	0700	0407	3493	2775	0004274	0385	14786										
	124	OBS	T0709	0406	34935	2775			14787										
		STD	0800	0391	3492	2775	0004286	0428	14796										
		STD	0900	0378	3491	2776	0004299	0471	14807										
	124	OBS	0941	0373	34904	2776			14812										
		STD	1000	0368	3491	2777	0004268	0514	14820										
		STD	1100	0360	3492	2779	0004184	0556	14833										
	124	OBS	T1168	0356	34926	2779			14843										
		STD	1200	0354	3493	2780	0004120	0597	14847										
		STD	1300	0349	3494	2781	0004067	0638	14862										
		STD	1400	0345	3494	2782	0004097	0679	14877										
		STD	1500	0342	3495	2783	0004064	0720	14893										
		STD	1750	0339	3496	2784	0004144	0823	14934										
	124	OBS	T1757	0339	34963	2784			14935										

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN 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			DR	HGT	PER	SEA		FR	AMT		
311201	EN	52565N	035380W	184	25	01	20	125	1968	C18	007		2686	06	23				2	X1	6	5	0007
					WATER		WIND		BARO-METER	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRABL. INT.	DIR.	SPED. OF FORCE	DRY BULB	WET BULB													
							22 523		186	078	061	7	11										
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20P		Σ Δ D DTN. M. Σ 10²	SOUND VELOCITY	O₂ ml/l	PO₂-P pg. - ml/l	TOTAL-P pg. - ml/l	NO₂-N pg. - ml/l	NO₃-N pg. - ml/l	SiO₄-Si pg. - ml/l	pH	S C/C				
		STD	0000	0708																			
125		OBS	0000	0708																			
		STD	0010	0708																			
125		OBS	0010	0708																			
		STD	0020	0708																			
		STD	0030	0708																			
125		OBS	0031	0708																			
125		OBS	0047	0706																			
		STD	0050	0707																			
125		OBS	0071	0711																			
		STD	0075	0711																			
125		OBS	0097	0710																			
		STD	0100	0710																			
		STD	0125	0710																			
		STD	0150	0710																			
125		OBS	0157	0710																			
125		OBS	T0187	0650																			
		STD	0200	0641																			
		STD	0250	0608																			
		STD	0300	0577																			
125		OBS	T0387	0528																			
		STD	0400	0520																			
125		OBS	0476	0485																			
		STD	0500	0479																			
125		OBS	T0570	0472																			

REFERENCE CRUISE ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
										CRUISE NO.	STATION NUMBER			DR	HGT	PER	SEA		FR	AMT	
					10°	1'	MO	DAY													
311201	EN	5257 N	03522 W	184	25	01	21	165 1968	1968	C18	008	2368	14	21	2	2		X3	3 7	0008	
					WIND		BARO. METER (mm)	AIR TEMP. °C	VIS CODE	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS- MIT					DIR.	SPEED OR FORCE	DRT BULB	WET BULB							
							19	520	230	100	089	6	11								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20P	Σ Δ D DTN, M. Σ 10²	SOUND VELOCITY	O₂ ml/l	PO₄-P pg - ml/l	TOTAL-P pg - ml/l	NO₂-N pg - ml/l	NO₃-N pg - ml/l	SiO₂-Si pg - ml/l	pH	S C/C				
		STD	0000	0699	3477	2726	0008221	0000	14787												
165		OBS	0000	0699	34768	2726	0008237	0008	14787												
		STD	0010	0699	3477	2726	0008237	0008	14789												
165		OBS	0011	0699	34768	2726	0008263	0016	14789												
		STD	0020	0699	3477	2726	0008263	0016	14790												
		STD	0030	0698	3476	2726	0008287	0025	14792												
165		OBS	0031	0698	34764	2726	0008287	0025	14792												
165		OBS	0047	0697	34768	2726	0008273	0041	14794												
		STD	0050	0698	3477	2726	0008273	0041	14795												
165		OBS	0070	0704	34778	2726	0008311	0062	14801												
		STD	0075	0703	3478	2726	0008311	0062	14801												
165		OBS	0095	0701	34796	2728	0008090	0083	14804												
		STD	0100	0695	3480	2729	0008090	0083	14802												
		STD	0125	0667	3483	2735	0007536	0102	14796												
165		OBS	0141	0653	34854	2739	0007536	0102	14793												
		STD	0150	0648	3487	2741	0007028	0120	14793												
165		OBS	T0192	0623	34929	2749	0006269	0154	14791												
		STD	0200	0618	3493	2750	0006269	0154	14790												
		STD	0250	0585	3493	2754	0005922	0184	14785												
		STD	0300	0554	3494	2758	0005530	0213	14781												
		STD	0400	0500	3494	2765	0005000	0265	14775												
165		OBS	0463	0471	34944	2769	0004631	0313	14774												
		STD	0500	0461	3494	2770	0004631	0313	14776												
		STD	0600	0435	3494	2772	0004455	0359	14781												
		STD	0700	0413	3494	2774	0004321	0403	14789												
		STD	0800	0393	3493	2776	0004206	0445	14797												
		STD	0900	0377	3493	2778	0004132	0487	14807												
165		OBS	T0926	0373	34930	2778	0004054	0528	14810												
		STD	1000	0363	3493	2779	0004054	0528	14818												
		STD	1100	0353	3493	2780	0004004	0568	14830												
		STD	1200	0345	3493	2781	0003982	0608	14844												
		STD	1300	0340	3494	2782	0003986	0648	14858												
		STD	1400	0339	3494	2782	0004044	0688	14875												
165		OBS	T1444	0339	34938	2782	0004044	0688	14882												

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN 10° 1'	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS		WEA- TER CODE	CLOUD CODE	NODC STATION NUMBER		
CRIP NO.	NO.					MO	DAY		HR	CRUISE NO.		STATION NUMBER	S'WAMP				DIR	HGT
311201	EM	53045N	035325W	184 35	01	23	107	1968	C18	010	3574	13	15	3	2	X1	315	0010

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TABLE VIII.—Continued

REFERENCE CTD CODE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MASSDEN SQUARE 10' 1'	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOD STATION NUMBER			
					MO	DAY		CRUISE NO.	STATION NUMBER			DIR	PER	SEA						
311201	EN	52434N	035313W	184	25	01	24	170	1968	C18	011	3566	18	15	4	2	X4	3	7	0011
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANSL mm	DIR	SPEED OR FORCE	DEPTH (mb)	DRY BULB	WET BULB	WIL CODE									
				16	512	301	083	083	6	11										
MESSAGE TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYNE. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg. - ml/l	TOTAL-P pg. - ml/l	NO ₃ -N pg. - ml/l	NO ₃ -N pg. - ml/l	SiO ₄ -S pg. - ml/l	pH	DO ₂		
		STD	0000	0709	3485	2730	0007780		0000	14792										
170		OBS	0000	0709	34845	2730				14792										
		STD	0010	0707	3485	2731	0007762		0008	14793										
170		OBS	0013	0706	34846	2731				14793										
		STD	0020	0706	3485	2731	0007761		0016	14794										
		STD	0030	0705	3485	2731	0007773		0023	14796										
170		OBS	0039	0705	34846	2731				14797										
		STD	0050	0705	3485	2731	0007801		0039	14799										
170		OBS	0059	0705	34846	2731				14800										
		STD	0075	0707	3487	2733	0007686		0058	14804										
170		OBS	0087	0708	34878	2733				14806										
		STD	0100	0694	3489	2736	0007407		0077	14803										
170		OBS	0119	0674	34904	2740				14799										
		STD	0125	0666	3491	2742	0006927		0095	14796										
		STD	0150	0640	3493	2747	0006478		0112	14791										
170		OBS	0178	0618	34951	2751				14787										
		STD	0200	0612	3496	2753	0005969		0143	14788										
170		OBS	T0236	0602	34979	2755				14790										
		STD	0250	0594	3498	2756	0005678		0172	14789										
		STD	0300	0567	3497	2759	0005453		0200	14787										
		STD	0400	0518	3496	2765	0005053		0252	14783										
		STD	0500	0475	3495	2769	0004729		0301	14782										
170		OBS	0591	0442	34942	2772				14783										
170		OBS	T1185	0356	34922	2779				14846										
170		OBS	17760	0319	34944	2784														

REFERENCE CTD CODE ID. NO.	SHIP CODE	LATITUDE 1/16	LONGITUDE 1/16	MASSDEN SQUARE 10° 1'	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NOOD STATION NUMBER			
					MO	DAY		CRUISE NO.	STATION NUMBER			DIR	PER	SEA						
311201	EM	5300 N	03520 W	184	35	01	25	121	1968	C18	012	3475	16	18	3	2	X4	5	5	0012
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANSL mm	DIR	SPEED OR FORCE	DEPTH (mb)	DET BULB	WET BULB										
							17	515	288	083	083	5	11							
MESSAGE TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D.D. DYNE. AL. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg. - ml/l	TOTAL-P pg. - ml/l	NO ₃ -N pg. - ml/l	NO ₃ -N pg. - ml/l	SiO ₄ -S pg. - ml/l	pH	DO ₂			
		STD	0000	0682	3475	2726	0008162	0000	14780											
121		OBS	0000	0682	34746	2726			14780											
		STD	0010	0679	3474	2726	0008173	0008	14781											
121		OBS	0011	0679	34742	2727			14781											
		STD	0020	0679	3474	2726	0008190	0016	14782											
		STD	0030	0680	3474	2727	0008203	0025	14784											
121		OBS	0034	0680	34743	2726			14785											
		STD	0050	0686	3476	2727	0008189	0041	14790											
121		OBS	0054	0687	34770	2728			14791											
		STD	0075	0694	3482	2731	0007888	0061	14796											
121		OBS	0081	0696	34826	2731			14800											
		STD	0100	0665	3484	2736	0007396	0080	14791											
121		OBS	0109	0653	34854	2739			14788											
		STD	0125	0645	3488	2742	0006877	0098	14788											
		STD	0150	0633	3492	2747	0006442	0115	14788											
121		OBS	0164	0626	34934	2749			14787											
		STD	0200	0610	3496	2753	0005944	0146	14787											
121		OBS	T0219	0601	34967	2755			14787											
		STD	0250	0583	3496	2756	0005674	0175	14785											
		STD	0300	0554	3496	2760	0005381	0202	14781											
		STD	0400	0504	3495	2765	0004974	0254	14777											
		STD	0500	0460	3495	2770	0004567	0302	14775											
121		OBS	0546	0443	34944	2772			14776											
		STD	0600	0435	3494	2772	0004450	0347	14781											
		STD	0700	0419	3493	2773	0004446	0391	14791											
		STD	0800	0404	3493	2775	0004361	0435	14802											
		STD	0900	0388	3492	2776	0004345	0479	14812											
		STD	1000	0373	3491	2776	0004324	0522	14822											
121		OBS	T1095	0358	34904	2777			14831											
121		OBS	1644Q	0341	34969	2784														

TABLE VIII.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DATE 1°/10	MARSSEN SQUARE		STATION TIME 10 M/T				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF TEMP.	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODES	TO	MOOD STATION NUMBER	
					1°	1°	MO	DAT	HR	1°/10		CRUISE NO.	STATION NUMBER			DB	HGT	PER	SEA					1°/10
311201	EN	52447N	035264W	184	25	01	26	145	1968	C18	013	3109	17	31	2	2		X2	4	7			0013	
						WATER		WIND		AIR TEMP. °C		NO. OBS.		SPECIAL										
						COLOR CODE	TRANS. M	DB.	DIR.	OR FORCE	SABO- METER	DRY BULB	WET BULB	VEL CODE	DEPTH	OBSERVATIONS								
						33	S20	240	044	033	7	11												
MARSSEN TRAIL NO.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20°		S.D.D. DYN. AL. ± 10°		SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH				
		STD	0000	0699	3481	2729		0007901	0000	14788														
145		OBS	0000	0699	34811	2729				14788														
		STD	0010	0697	3481	2729		0007902	0008	14789														
145		OBS	0012	0697	34806	2729				14789														
		STD	0020	0698	3481	2729		0007938	0016	14790														
		STD	0030	0699	3481	2729		0007942	0024	14792														
145		OBS	0036	0699	34812	2729				14794														
		STD	0050	0701	3484	2731		0007792	0039	14797														
145		OBS	0055	0702	34847	2732				14798														
		STD	0075	0711	3486	2731		0007840	0059	14805														
145		OBS	0080	0712	34860	2731				14807														
		STD	0100	0710	3487	2732		0007773	0079	14809														
145		OBS	0111	0709	34875	2733				14811														
		STD	0125	0684	3489	2737		0007314	0097	14803														
		STD	0150	0648	3492	2745		0006656	0113	14794														
145		OBS	0166	0632	34931	2748				14790														
		STD	0200	0622	3496	2751		0006097	0147	14792														
145		OBS	T0223	0615	34972	2753				14793														
		STD	0250	0599	3497	2755		0005801	0177	14791														
		STD	0300	0570	3497	2759		0005505	0205	14788														
		STD	0400	0518	3496	2764		0005068	0258	14783														
		STD	0500	0473	3495	2769		0004720	0307	14781														
145		OBS	0565	0448	34945	2771				14781														
145		OBS	1153	0358	34913	2778				14841														
		STD	1200	0354	3492	2779		0004216		14847														
		STD	1300	0345	3493	2780		0004121		14860														
		STD	1400	0339	3494	2782		0004059		14875														
		STD	1500	0335	3494	2783		0004027		14890														
		STD	1750	0332	3497	2785		0004016		14931														
145		OBS	T1750	0332	34965	2785				14931														

REFERENCE	SHIP CODE	LATITUDE 1/16	LONGITUDE 1/16	MARSSEN SQUARE	STATION TIME 10 M/T	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH 1 FATHOMS	WAVE OBSERVATIONS				WEA- THIR CODE	CLOUD CODES	MOOD STATION NUMBER									
							CRUISE NO.	STATION NUMBER			DEL.	HGT.	PER.	SEA												
311201	EN	5246 N	03528 W	184	25 01 27 119	1968	C18	014	3200	18	33	4	2		X1	3 6	0014									
MARSSEN TRAIL NO.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D.D. DYN. AL. ± 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S LOG									
																						WATER		WIND	SABO- METER	
				COLOR CODE		TRANS. M	DIR.		SPED OR FORCE		DRY BULB		WET BULB		VEL CODE											
						17	S13	227	056	033	7		11													
		STD	0000	0679	3471	2724		0008384	0000	14778																
119		OBS	0000	0679	34711	2724				14778																
119		OBS	0009	0677	34711	2724				14779																
		STD	0010	0676	3471	2725	0008361	0008	14779																	
		STD	0020	0670	3471	2725	0008329	0017	14778																	
		STD	0030	0666	3470	2725	0008315	0025	14778																	
119		OBS	0035	0664	34702	2725			14778																	
		STD	0050	0662	3470	2726	0008289	0042	14780																	
119		OBS	0054	0661	34704	2726			14780																	
		STD	0075	0691	3477	2727	0008220	0062	14796																	
119		OBS	0083	0696	34789	2728			14800																	
		STD	0100	0694	3483	2731	0007854	0082	14802																	
119		OBS	0112	0687	34855	2734			14802																	
		STD	0125	0657	3487	2740	0007107	0101	14792																	
		STD	0150	0609	3489	2748	0006381	0118	14778																	
119		OBS	0169	0583	34899	2752			14770																	
		STD	0200	0567	3492	2755	0005706	0148	14769																	
119		OBS	T0226	0554	34931	2758			14769																	
		STD	0250	0544	3493	2759	0005403	0176	14768																	
		STD	0300	0525	3493	2761	0005230	0203	14769																	
		STD	0400	0490	3494	2766	0004919	0253	14771																	
		STD	0500	0459	3494	2769	0004652	0301	14775																	
119		OBS	0576	0438	34939	2772			14779																	
119		OBS	1170	0359	34927	2779			14844																	
		STD	1200	0356	3493	2780	0004145		14846																	
		STD	1300	0348	3493	2780	0004128		14862																	
		STD	1400	0340	3494	2782	0004035		14875																	
		STD	1500	0334	3494	2783	0004037		14890																	
		STD	1750	0324	3496	2785	0003948		14928																	
119		OBS	T1786	0323	34967	2786			14934																	

TABLE VIII.—Continued

REFERENCE CTM CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE 10' 1"	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAY DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TFR GNT	MOOD STATION NUMBER																																					
						MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DR.	HCC	PER				SEA																																				
311201	EN	5237 N	03532 W	184	25	01	28	123	1968	C18	015	3840	16	23	3	3	X1	4	6	0015																																				
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th colspan="2">BARO- METER</th><th colspan="2">AIR TEMP. °C</th><th colspan="2">VIL CODE</th><th colspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>WAVE HGT</th><th>DR.</th><th>SPED OR FORCE</th><th>DRY RULE</th><th>WET RULE</th><th>NO.</th><th>DRY RULE</th><th>WET RULE</th><th>NO.</th><th colspan="2"></th></tr><tr><td>25</td><td>529</td><td>297</td><td>061</td><td>039</td><td>7</td><td>11</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>																				WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE		SPECIAL OBSERVATIONS		COLOR CODE	WAVE HGT	DR.	SPED OR FORCE	DRY RULE	WET RULE	NO.	DRY RULE	WET RULE	NO.			25	529	297	061	039	7	11						
WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE		SPECIAL OBSERVATIONS																																														
COLOR CODE	WAVE HGT	DR.	SPED OR FORCE	DRY RULE	WET RULE	NO.	DRY RULE	WET RULE	NO.																																															
25	529	297	061	039	7	11																																																		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTM, M. × 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	S C																																							
		STD	0000	0695	3478	2728	0008057	0000	14786																																															
		OBS	0000	0695	34783	2728			14786																																															
		STD	0010	0694	3478	2728	0008069	0008	14787																																															
		OBS	0012	0694	34782	2728			14787																																															
		STD	0020	0694	3478	2728	0008083	0016	14789																																															
		STD	0030	0694	3478	2728	0008099	0024	14790																																															
		OBS	0035	0694	34782	2728			14791																																															
		STD	0050	0695	3478	2728	0008142	0040	14794																																															
		OBS	0053	0695	34782	2727			14794																																															
		STD	0075	0697	3478	2727	0008220	0061	14799																																															
		OBS	0080	0697	34778	2727			14800																																															
		STD	0100	0697	3479	2728	0008191	0081	14803																																															
		OBS	0106	0697	34794	2728			14804																																															
		STD	0125	0697	3479	2728	0008211	0102	14807																																															
		STD	0150	0696	3479	2728	0008267	0123	14811																																															
		OBS	0154	0696	34788	2728			14811																																															
		OBS	T0198	0619	34955	2751			14790																																															
		STD	0200	0617	3495	2751	0006108	0158	14790																																															
		STD	0250	0580	3495	2756	0005711	0188	14783																																															
		STD	0300	0546	3495	2760	0005358	0216	14778																																															
		STD	0400	0487	3494	2766	0004846	0267	14770																																															
		OBS	0473	0451	34936	2770			14767																																															
		STD	0500	0445	3494	2771	0004504	0313	14769																																															
		STD	0600	0426	3493	2773	0004410	0358	14778																																															
		STD	0700	0408	3493	2774	0004322	0402	14787																																															
		STD	0800	0392	3493	2776	0004253	0445	14797																																															
		STD	0900	0379	3492	2777	0004214	0487	14808																																															
		OBS	T0944	0374	34922	2777			14813																																															
		OBS	T1554	0345	34947	2782			14903																																															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE 10' 1"	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAY DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	MOOD STATION NUMBER																																								
CTM CODE	ID. NO.					10'	1"	MO		DAY	HR 1/10			CRUISE NO.	STATION NUMBER	DR.				HCC	PER	SEA																																					
311201	EN	5245 N	03530 W	184	25	01	29	118	1968	C18	016	3109	15	29	3	2	X1	1	2	0016																																							
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th colspan="2">BARO- METER</th><th colspan="2">AIR TEMP. °C</th><th colspan="2">NO. OBS.</th><th colspan="2">SPECIAL</th></tr><tr><th>COLOR CODE</th><th>WAVE WT</th><th>DR.</th><th>SPED OR FORCE</th><th>METER INches?</th><th>DRY BULB</th><th>WET BULB</th><th>VLS CODE</th><th>NO.</th><th>DRY</th><th>WET</th><th>NO.</th><th colspan="2">OBSERVATIONS</th></tr><tr><td></td><td></td><td></td><td>29</td><td>513</td><td>091</td><td>033</td><td>022</td><td>7</td><td>11</td><td></td><td></td><td colspan="2"></td></tr></table>																				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS.		SPECIAL		COLOR CODE	WAVE WT	DR.	SPED OR FORCE	METER INches?	DRY BULB	WET BULB	VLS CODE	NO.	DRY	WET	NO.	OBSERVATIONS					29	513	091	033	022	7	11				
WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS.		SPECIAL																																																	
COLOR CODE	WAVE WT	DR.	SPED OR FORCE	METER INches?	DRY BULB	WET BULB	VLS CODE	NO.	DRY	WET	NO.	OBSERVATIONS																																															
			29	513	091	033	022	7	11																																																		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTM, M. × 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	S C																																										
		STD	0000	0686	3473	2725	0008311	0000	14782																																																		
	118	OBS	0000	0686	34733	2725			14782																																																		
		STD	0010	0684	3473	2725	0008301	0008	14782																																																		
	118	OBS	0010	0684	34733	2725			14782																																																		
		STD	0020	0685	3473	2725	0008323	0017	14784																																																		
		STD	0030	0685	3473	2725	0008346	0025	14786																																																		
	118	OBS	0031	0685	34733	2725			14786																																																		
	118	OBS	0049	0685	34739	2725			14789																																																		
		STD	0050	0686	3474	2725	0008346	0042	14790																																																		
	118	OBS	0073	0687	34736	2725			14794																																																		
		STD	0075	0685	3473	2725	0008439	0063	14793																																																		
	118	OBS	0097	0663	34716	2727			14788																																																		
		STD	0100	0660	3473	2728	0008151	0083	14788																																																		
		STD	0125	0640	3483	2739	0007185	0103	14785																																																		
	118	OBS	0145	0627	34882	2745			14784																																																		
		STD	0150	0625	3489	2745	0006583	0120	14784																																																		
	118	OBS	T0196	0604	34948	2753			14784																																																		
		STD	0200	0602	3495	2753	0005917	0151	14784																																																		
		STD	0250	0574	3495	2757	0005636	0180	14781																																																		
		STD	0300	0548	3496	2761	0005308	0207	14779																																																		
		STD	0400	0502	3496	2766	0004875	0258	14776																																																		
	118	OBS	0471	0473	34966	2770			14776																																																		
		STD	0500	0465	3496	2771	0004521	0305	14778																																																		
		STD	0600	0439	3496	2773	0004383	0350	14783																																																		
		STD	0700	0416	3495	2775	0004275	0393	14790																																																		
		STD	0800	0397	3494	2776	0004208	0435	14799																																																		
		STD	0900	0381	3493	2777	0004171	0477	14809																																																		
	118	OBS	T0922	0378	34930	2777			14811																																																		
		STD	1000	0374	3493	2778	0004164	0519	14823																																																		
		STD	1100	0369	3494	2779	0004148	0560	14837																																																		
		STD	1200	0364	3495	2780	0004129	0602	14852																																																		
		STD	1300	0360	3495	2781	0004115	0643	14867																																																		
		STD	1400	0355	3496	2782	0004092	0684	14882																																																		
	118	OBS	T1452	0352	34960	2782			14889																																																		

TABLE VIII.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WASDEN SQUARE	STATION TIME G.M.T.			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	WDOC STATION NUMBER			
					18"	1"	MO DAY YR		CRUISE NO.	STATION NUMBER							DBL	HGT	PER
311201	EN	52437N	035125W	184	25	01	31 119	1968	C18	017	3658	09	27	3	3	X1	3 4	0017	
				WATER		WIND		BARO- METER		AIR TEMP. °C		VE. CODE		NO. DBL DEPTH		SPECIAL OBSERVATIONS			
				COLOR CODE	TRANS- MIS	DBL	SPEED OR FORCE	METER	DRY BULB	WET BULB	VE. CODE	NO. DBL DEPTH							
							27 519	274	050	039	7	10							
MESSAGE TIME 1/10	CAST NO.	CARD TYPE	DEPTH M	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH	S C C	
		STD	0000	0665	3476	2730	0007868		0000		14774								
119		OBS	0000	0665	34756	2730					14774								
119		OBS	0009	0662	34756	2730					14774								
		STD	0010	0662	3476	2730	0007846		0008		14774								
		STD	0020	0663	3475	2730	0007896		0016		14776								
		STD	0030	0664	3475	2729	0007946		0024		14778								
119		OBS	0030	0664	34750	2729					14778								
119		OBS	0045	0664	34756	2730					14781								
		STD	0050	0665	3476	2730	0007915		0040		14782								
119		OBS	0072	0668	34761	2730					14787								
		STD	0075	0669	3476	2730	0007983		0059		14788								
119		OBS	0093	0671	34777	2730					14791								
		STD	0100	0671	3479	2731	0007852		0079		14793								
		STD	0125	0673	3484	2735	0007535		0098		14798								
119		OBS	0133	0673	34857	2736					14800								
		STD	0150	0640	3489	2743	0006776		0116		14790								
119		OBS	T0173	0599	34931	2752					14778								
		STD	0200	0586	3493	2754	0005843		0148		14777								
		STD	0250	0562	3494	2757	0005592		0176		14776								
		STD	0300	0540	3494	2760	0005366		0204		14775								
		STD	0400	0500	3495	2765	0004963		0255		14775								
119		OBS	0450	0482	34948	2768					14776								
		STD	0500	0463	3495	2769	0004655		0304		14777								
		STD	0600	0437	3494	2772	0004464		0349		14782								
		STD	0700	0414	3494	2774	0004325		0393		14789								
		STD	0800	0396	3494	2776	0004233		0436		14798								
119		OBS	T0890	0385	34931	2777					14809								

TABLE IX.—Observed and interpolated oceanographic data from stations taken by USCGC SPENCER, at Ocean Station CHARLIE, 28 February—14 March 1968, prepared from NODC Listing No. 31-1253.

[illegible]

MODE REF. NO. IN.		SHIP	LONGITUDE		STATION NAME				OBSERVATORY		DEPTH	DATE	WEATHER		MODE			
STATION CODE	CRUISE NUMBER	CODE	1 10	20	30	40	50	60	70	80	90	10	11	12	13			
31	1253	SC	5243 N	03534 W	184	15	02	29	107	1969	C19	002	3109	1	20			
NOTES: THESE VALUES ARE FOR READING ELECTRONICALLY OBSERVED DATA ONLY NUMERIC VALUES BY INSTRUMENT ARE IN ITALIC CAPITALS															0002			
DT		S	WIND		BAROMETER		AIR TEMPERATURE °C		WAVE		SPECIAL							
DATE	TIME	DEPTH	DIR	SPEED OF FORCE	SURFACE	DEPTH	SURFACE	DEPTH	LEVELS	HIGHEST	DEEPEST	OBSERVATIONS						
22	508	180	050	033	7	14												
CAST NO.		CARD TYPE	DEPTH (m)	TEMP.	SPEED OF FORCE	BAROMETER	AIR TEMPERATURE °C	WAVE	COMPUTED SOUND VELOCITY	*SUBMERSIBLE		*RECORDED SOUND VELOCITY						
SURFACE										DEPTH	TEMP.	TOTAL	DEPTH	TEMP.				
DEPTHS										100	200	300	400	500				
107	ST0	0000	0653															
107	005	0000	0653															
107	005	0009	0652															
	ST0	0010	0652															
	ST0	0020	0654															
107	005	0027	0654															
	ST0	0030	0654															
107	005	0041	0653															
	ST0	0050	0655															
107	005	0059	0656															
	ST0	0075	0654															
107	005	0079	0654															
	ST0	0100	0656															
107	005	0117	0657															
	ST0	0125	0657															
	ST0	0150	0659															
107	005	T0160	0659															
	ST0	0200	0648															
	ST0	0250	0631															
	ST0	0300	0608															
107	005	T0310	0603															
107	005	0393	0553															
	ST0	0400	0537															
	005	0477	0496															
	ST0	0500	0498															
	ST0	0600	0457															
107	005	0654	0443															
	ST0	0700	0432															
	ST0	0800	0412															
107	005	T0842	0405															
107	005	13040	0361															

TABLE IX.—Continued

MODE REF ID NO		SHIP	LATITUDE		LONGITUDE		DATE	TIME	YEAR	OBSERVATIONS		DEPTH	SAL. SAMPLE		SAL. OBSERVATIONS		WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND	WAVE	WIND
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TIME REF ID NO	SHIP CODE	LATITUDE	LONGITUDE	DATE	TIME	YEAR	CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	SAL. SAMPLE	SAL. OBSERVATIONS	WEATHER CODE	WIND CODE	WAVE CODE	MODE																																					
311253	SC	5240 N	03520 W	184	25	03	11	169	1968	C19	006	3621	1	25	4	0006																																				
NOTE: THIS CODE TEMPLATE FOR RECORDS ELECTRONICALLY OBSERVED SERIAL DATA (STD) ARE HANDLED DURING BY AUTOMATED ONE BY ONE APPLY																																																				
<table> <tr> <th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th></tr> <tr> <td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> </table>																	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE																																			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18																																			
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TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE																																			
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<table> <tr> <th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th><th>TIME</th><th>DATE</th></tr> <tr> <td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> </table>																	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE																																			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18																																			

TABLE X.—Continued

REFERENCE STATION NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WAVE NO	STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES (1-10)	NODC STATION NUMBER	
					10	11	MO		DAY	HR	MIN			DR	NG	PER				STA
					10	11	MO		DAY	HR	MIN			DR	NG	PER				STA
318043	HT	5245 N	03530 W	184	25	04	10	156	1968	C20	002	3585	15	18		3	X2	0 3	0002	
WATER					WIND					AIR TEMP °C					SPECIAL OBSERVATIONS					
COLOUR CODE	TEMP °C	DUR	SPED OF TICK	BARO- METER (mb)	DRY BULB	WET BULB	VIS CODE	NO OBS DEPTH												
DT	SD	18	526	905	088	078	6	30												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-310°	Σ Δ D DYN. A x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml	TOTAL-P μg - ml	NO ₃ -N μg - ml	NO ₃ -N μg - ml	SiO ₄ -Si μg - ml	pH	SEC			
		STD	0000	0759	3473	2714	0009337	0000	14810											
	156	OBS	0000	0759	34727	2714			14810											
		STD	0010	0759	3473	2714	0009369	0009	14812											
		OBS	0010	0759	34725	2714			14812											
		STD	0020	0759	3473	2714	0009386	0019	14813											
	008	OBS	0020	0759	34725	2714			14813											
		STD	0030	0759	3473	2714	0009403	0028	14815											
		OBS	0030	0759	34725	2714			14815											
		STD	0050	0701	3473	2723	0008596	0046	14796											
		OBS	0050	0701	34732	2723			14796											
		OBS	0060	0628	34752	2734			14769											
		STD	0075	0624	3479	2738	0007192	0066	14770											
		OBS	0075	0624	34792	2738			14770											
		STD	0100	0608	3481	2741	0006879	0083	14768											
		OBS	0100	0608	34812	2741			14768											
		STD	0125	0618	3483	2742	0006891	0101	14776											
		OBS	0125	0618	34832	2742			14776											
		STD	0150	0623	3485	2743	0006841	0118	14783											
		OBS	0150	0623	34852	2743			14783											
		OBS	0160	0623	34852	2743			14784											
		STD	0200	0618	3495	2751	0006105	0150	14790											
		OBS	0200	0618	34952	2751			14790											
		OBS	0220	0618	34952	2751			14794											
		STD	0250	0577	3495	2757	0005659	0180	14782											
		OBS	0250	0577	34952	2757			14782											
		OBS	0275	0563	34946	2758			14780											
		OBS	0285	0533	34912	2759			14769											
		OBS	0295	0533	34912	2759			14771											
		STD	0300	0542	3493	2759	0005480	0207	14776											
		OBS	0300	0542	34927	2759			14776											
		STD	0400	0504	3491	2762	0005249	0261	14777											
		OBS	0406	0502	34912	2762			14777											
		STD	0500	0476	3491	2765	0005038	0313	14782											
		OBS	0500	0476	34912	2765			14782											
		STD	0600	0445	3493	2770	0004669	0361	14785											
		OBS	0600	0445	34927	2770			14785											
		STD	0700	0426	3492	2772	0004585	0407	14794											
		OBS	0700	0426	34922	2772			14794											
		STD	0800	0412	3491	2773	0004592	0453	14805											
		OBS	0800	0412	34912	2773			14805											
		STD	0900	0394	3489	2773	0004635	0499	14814											
		OBS	0900	0394	34890	2773			14814											
		STD	1000	0381	3489	2774	0004592	0545	14825											
		OBS	1000	0381	34887	2774			14825											
		STD	1100	0374	3489	2774	0004595	0591	14839											
		OBS	1100	0374	34887	2774			14839											
		STD	1200	0370	3490	2776	0004521	0637	14854											
		OBS	1200	0370	34902	2776			14854											
		STD	1300	0365	3492	2778	0004397	0682	14869											
		OBS	1300	0365	34922	2778			14869											
		STD	1400	0361	3493	2779	0004356	0725	14884											
		OBS	1400	0361	34932	2779			14884											
		STD	1500	0355	3493	2780	0004376	0769	14898											
		OBS	1500	0355	34930	2780			14898											

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	M/F SDEEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WAVE OBSERVATIONS			CLOUD CODES		WDC STATION NUMBER	
					10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			GA	NG	PER	STA	WVH CODE		WVS CODE
318043	HT	5245 N	03535 W	184	25	04	11 115	1968	C20	004	3475	15	25			2	X1	0 3	0004
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DIN. M S 10'	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	C	C	
		STD	0000	0643	3483	2738	0007043	0000	14766										
	115	OBS	0000	0643	34829	2738			14766										
		STD	0010	0643	3483	2738	0007059	0007	14767										
		OBS	0010	0643	34829	2738			14767										
		STD	0020	0642	3483	2738	0007068	0014	14769										
	006	OBS	0020	0642	34828	2738			14769										
		STD	0030	0642	3483	2738	0007083	0021	14770										
		OBS	0030	0642	34828	2738			14770										
		STD	0050	0642	3483	2738	0007113	0035	14774										
		OBS	0050	0642	34828	2738			14774										
		STD	0075	0641	3484	2739	0007056	0053	14777										
		OBS	0075	0641	34839	2739			14777										
		STD	0100	0640	3484	2740	0007073	0071	14781										
		OBS	0100	0640	34840	2740			14781										
		STD	0125	0631	3489	2745	0006616	0088	14782										
		OBS	0125	0631	34891	2745			14782										
		STD	0150	0630	3493	2748	0006320	0104	14787										
		OBS	0150	0630	34934	2748			14787										
		STD	0175	0629	34961	2751			14791										
		STD	0200	0615	3497	2753	0005933	0135	14789										
		OBS	0200	0615	34970	2753			14789										
		STD	0250	0594	3497	2756	0005716	0164	14789										
		OBS	0250	0594	34973	2756			14789										
		OBS	0275	0576	34975	2758			14786										
		STD	0300	0557	3496	2760	0005418	0192	14782										
		OBS	0300	0557	34960	2760			14782										
		OBS	0350	0527	34957	2763			14778										
		STD	0400	0492	3493	2765	0004957	0244	14772										
		OBS	0400	0492	34933	2765			14772										
		STD	0500	0459	3495	2771	0004540	0291	14775										
		OBS	0500	0459	34952	2771			14775										
		STD	0600	0442	3497	2773	0004351	0335	14785										
		OBS	0600	0442	34965	2773			14785										
		STD	0700	0416	3496	2776	0004208	0378	14790										
		OBS	0700	0416	34957	2776			14790										
		STD	0800	0398	3495	2777	0004116	0420	14799										
		OBS	0800	0398	34954	2777			14799										
		STD	0900	0386	3495	2778	0004097	0461	14811										
		OBS	0900	0386	34950	2778			14811										
		STD	1000	0373	3495	2780	0004039	0502	14822										
		OBS	1000	0373	34949	2780			14822										
		STD	1100	0363	3495	2781	0004006	0542	14835										
		OBS	1100	0363	34949	2781			14835										
		STD	1200	0358	3495	2781	0003992	0582	14849										
		OBS	1200	0358	34954	2781			14849										
		STD	1300	0353	3496	2782	0003961	0622	14864										
		OBS	1300	0353	34961	2782			14864										
		STD	1400	0348	3497	2784	0003899	0661	14879										
		OBS	1400	0348	34972	2784			14879										
		STD	1500	0344	3498	2784	0003906	0700	14894										
		OBS	1500	0344	34975	2784			14894										

TABLE X.—Continued

REFERENCE CIR CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAL DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
									CRUISE NO	STATION NUMBER										
					10'	1"	MO DAY HR 1/10						DIR	HGT	PER	SFA				
318043	HT	5246 N	03515 W	184	25	04	11 174	1968	C20	005	3182	15	26			5	X1	03		0005
					WATER		WIND		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TEMP °C	DIR.	SPEED OR FORCE	BARO- METER UNITS	DRY BULB	WET BULB													
DT	SD	26	520	983	066	056	7	25												
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 - 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			
		STD	0000	0646	3482	2737	0007156	0000	14767											
174		OBS	0000	0646	34819	2737			14767											
		STD	0010	0646	3482	2737	0007171	0007	14768											
		OBS	0010	0646	34819	2737			14768											
		STD	0020	0646	3482	2737	0007186	0014	14770											
004		OBS	0020	0646	34819	2737			14770											
		STD	0030	0646	3482	2737	0007201	0022	14772											
		OBS	0030	0646	34819	2737			14772											
		STD	0050	0645	3482	2737	0007219	0036	14775											
		OBS	0050	0645	34819	2737			14775											
		STD	0075	0644	3481	2737	0007296	0054	14778											
		OBS	0075	0644	34812	2737			14778											
		STD	0100	0637	3484	2740	0007035	0072	14780											
		OBS	0100	0637	34840	2740			14780											
		STD	0125	0632	3488	2744	0006695	0089	14783											
		OBS	0125	0632	34882	2744			14783											
		STD	0150	0628	3491	2747	0006473	0106	14786											
		OBS	0150	0628	34910	2747			14786											
		STD	0200	0614	3493	2750	0006233	0137	14788											
		OBS	0200	0614	34928	2750			14788											
		STD	0250	0599	3496	2754	0005868	0168	14791											
		OBS	0250	0599	34961	2754			14791											
		STD	0300	0569	3495	2758	0005612	0196	14787											
		OBS	0300	0569	34954	2758			14787											
		OBS	0350	0530	34933	2761			14779											
		STD	0400	0503	3492	2763	0005170	0250	14776											
		OBS	0400	0503	34922	2763			14776											
		STD	0500	0463	3494	2769	0004714	0300	14776											
		OBS	0500	0463	34935	2769			14776											
		STD	0600	0441	3494	2772	0004533	0346	14784											
		OBS	0600	0441	34939	2772			14784											
		STD	0700	0420	3494	2774	0004403	0391	14792											
		OBS	0700	0420	34937	2774			14792											
		STD	0800	0400	3493	2775	0004325	0434	14800											
		OBS	0800	0400	34929	2775			14800											
		STD	0900	0385	3492	2776	0004299	0477	14810											
		OBS	0900	0385	34921	2776			14810											
		STD	1000	0374	3492	2777	0004258	0520	14827											
		OBS	1000	0374	34921	2777			14827											
		STD	1100	0367	3492	2778	0004253	0563	14834											
		OBS	1100	0367	34922	2778			14834											
		STD	1200	0362	3492	2779	0004262	0605	14851											
		OBS	1200	0362	34924	2779			14851											
		STD	1300	0358	3493	2780	0004251	0648	14866											
		OBS	1300	0358	34930	2780			14866											
		STD	1400	0355	3494	2781	0004222	0690	14882											
		OBS	1400	0355	34940	2781			14882											
		STD	1500	0350	3495	2782	0004158	0732	14896											
		OBS	1500	0350	34951	2782			14896											

TABLE X.—Continued

REFERENCE CITE NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER
										CRUISE NO.	STATION NUMBER		DIR	HGT	PER	SEA			
					10"	1"	MO	DAY											
318043	HT	5248 N	03536 W	184	25	04	11	233	1968	C20	006	3566	15	29		2	X1	003	0006
					WATER		WIND		AIR TEMP °C			NO. OBS DEPTH	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS DM	DIR	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB				VIS CODE				
					DT	SD	32	510	328	044	033				7	26			
MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-517	Σ Δ D DYN. M. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ =P μg - 0.1/1	TOTAL=P μg - 0.1/1	NO ₃ =N μg - 0.1/1	NO ₃ =N μg - 0.1/1	SiO ₄ =Si μg - 0.1/1	PH	S C C		
		STD	0000	0647	3484	2739	0007019	0000	14768										
233		OBS	0000	0647	34839	2739			14768										
		STD	0010	0647	3484	2739	0007035	0007	14769										
		OBS	0010	0647	34839	2739			14769										
		STD	0020	0647	3484	2739	0007050	0014	14771										
004		OBS	0020	0647	34839	2739			14771										
		STD	0030	0647	3484	2739	0007057	0021	14772										
		OBS	0030	0647	34840	2739			14772										
		STD	0050	0647	3484	2739	0007080	0035	14776										
		OBS	0050	0647	34841	2739			14776										
		STD	0075	0646	3484	2739	0007083	0053	14779										
		OBS	0075	0646	34844	2739			14779										
		STD	0100	0641	3485	2740	0007034	0071	14782										
		OBS	0100	0641	34847	2740			14782										
		STD	0125	0629	3485	2742	0006866	0088	14781										
		OBS	0125	0629	34854	2742			14781										
		STD	0150	0630	3490	2746	0006573	0105	14786										
		OBS	0150	0630	34900	2746			14786										
		STD	0200	0626	3495	2750	0006193	0137	14794										
		OBS	0200	0626	34954	2750			14794										
		STD	0225	0601	34954	2754			14788										
		OBS	0250	0570	3494	2757	0005631	0166	14779										
		STD	0250	0570	34944	2757			14779										
		OBS	0300	0530	3494	2761	0005268	0194	14771										
		STD	0400	0485	3495	2767			14771										
		OBS	0400	0485	34946	2767	0004778	0244	14769										
		STD	0500	0457	3494	2770			14769										
		OBS	0500	0457	34943	2770	0004584	0291	14774										
		STD	0600	0439	3494	2772			14774										
		OBS	0600	0439	34943	2772	0004479	0336	14783										
		STD	0700	0418	3494	2774			14783										
		OBS	0700	0418	34943	2774	0004335	0380	14791										
		STD	0800	0396	3494	2776			14791										
		OBS	0800	0396	34936	2776	0004226	0423	14798										
		STD	0900	0384	3493	2777			14798										
		OBS	0900	0384	3493	2777	0004251	0465	14810										
		STD	1000	0368	3492	2778			14810										
		OBS	1000	0368	34924	2778	0004165	0507	14820										
		STD	1100	0365	3494	2779			14820										
		OBS	1100	0365	3494	2779	0004118	0549	14835										
		STD	1200	0360	3494	2780			14835										
		OBS	1200	0360	34938	2780	0004134	0590	14850										
		STD	1300	0357	3494	2781			14850										
		OBS	1300	0357	34942	2781	0004151	0631	14866										
		STD	1400	0354	3495	2781			14866										
		OBS	1400	0354	34947	2781	0004158	0673	14881										
		STD	1400	0354	34947	2781			14881										
		OBS	1450	0351	34948	2782			14881										
		STD	1500	0349	3495	2782	0004153	0714	14888										
		OBS	1500	0349	34950	2782			14896										
									14896										

TABLE X.—Continued

REFERENCE CIR CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	1/2° SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MALL DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		MOON STATION NUMBER
						10'	1'	MO DAT HR 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		1/10	AMT	
						WATER COLOR CODE	TRANSP NO.	DIR.		SPED OR FORCE	BARO- METER (mmHg)			AIR TEMP °C DIR BULB	WET BULB	VIL CODE		NO. OBS. DEPTH	SPECIAL OBSERVATIONS	
318043	HT		5242 N	03526 W	184	25	04	13 115	1968	C20	008	3566	15	29	3	3	X1	0	3	0008
						DT	SD	00	S00	152	072	044	7	31						
MESSAGE TIME HR 1/10	CALL NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M ± 10 ²	SOUND VELOCITY	D ₂ M/L	PO ₄ -P pg - 0.1/1	TOTAL-P pg - 0.1/1	NO ₃ -N pg - 0.1/1	NO ₃ -N pg - 0.1/1	SiO ₄ -Si pg - 0.1/1	PH			
		STD	0000	0724	3474	2720	0008800	0000	14796											
115		OBS	0000	0724	34735	2720			14796											
		STD	0010	0724	3474	2720	0008817	0009	14798											
		OBS	0010	0724	34735	2720			14798											
		STD	0020	0725	3474	2720	0008847	0018	14800											
005		OBS	0020	0725	34735	2720			14800											
		STD	0030	0725	3474	2720	0008863	0026	14802											
		OBS	0030	0725	34735	2720			14802											
		OBS	0045	0722	34722	2719			14803											
		STD	0050	0696	3473	2723	0008537	0044	14794											
		OBS	0050	0696	34731	2723			14794											
		OBS	0060	0625	34743	2734			14767											
		STD	0075	0593	3478	2741	0006927	0063	14757											
		OBS	0075	0593	34776	2741			14757											
		STD	0100	0603	3483	2743	0006697	0080	14766											
		OBS	0100	0603	34828	2743			14766											
		STD	0125	0619	3483	2742	0006896	0097	14777											
		OBS	0125	0619	34833	2742			14777											
		STD	0150	0617	3483	2742	0006906	0114	14780											
		OBS	0150	0617	34833	2742			14780											
		STD	0200	0617	3489	2747	0006547	0148	14789											
		OBS	0200	0617	34891	2747			14789											
		OBS	0225	0618	34932	2750			14794											
		OBS	0230	0602	34934	2752			14789											
		STD	0250	0592	3492	2752	0006085	0180	14788											
		OBS	0250	0592	34920	2752			14788											
		OBS	0275	0541	34892	2756			14771											
		STD	0300	0519	3490	2759	0005434	0209	14766											
		OBS	0300	0519	34896	2759			14766											
		OBS	0310	0509	34912	2762			14764											
		OBS	0315	0517	34962	2765			14769											
		STD	0400	0490	3494	2766	0004874	0260	14771											
		OBS	0400	0490	34941	2766			14771											
		STD	0500	0461	3495	2770	0004564	0307	14776											
		OBS	0500	0461	34952	2770			14776											
		STD	0600	0431	3494	2773	0004379	0352	14780											
		OBS	0600	0431	34944	2773			14780											
		STD	0700	0408	3494	2775	0004219	0395	14787											
		OBS	0700	0408	34943	2775			14787											
		STD	0800	0392	3493	2776	0004194	0437	14797											
		OBS	0800	0392	34934	2776			14797											
		STD	0900	0378	3493	2778	0004136	0479	14807											
		OBS	0900	0378	34932	2778			14807											
		STD	1000	0369	3493	2779	0004117	0520	14820											
		OBS	1000	0369	34932	2779			14820											
		STD	1100	0361	3493	2779	0004100	0561	14834											
		OBS	1100	0361	34933	2779			14834											
		STD	1200	0358	3494	2781	0004066	0602	14849											
		OBS	1200	0358	34944	2781			14849											
		STD	1300	0353	3495	2781	0004072	0643	14864											
		OBS	1300	0353	34946	2781			14864											
		STD	1400	0349	3495	2782	0004058	0683	14879											
		OBS	1400	0349	34952	2782			14879											
		STD	1500	0345	3495	2782	0004124	0724	14894											
		OBS	1500	0345	34947	2782			14894											

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PARADISE SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WIA- THER CODE	CLOUD CODES	WDOC STATION NUMBER
CRUISE NO.	ID NO.					MO	DAY		HR 1/10	CRUISE NO.			STATION NUMBER	DR	HG	PER			
318043	HT		5247 N	03538 W	184	25	04	13 178	1968	C20 009	3526	15	35	2	2		X1	03	0009
WATER		WIND		BARO- METER		AIR TEMP °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. MIL	DIL.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB												
DT	SD	36	S09	152	072	050	7	28											
MESSAGE TIME HR 1/10	CAS NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME (NOMINAL-10°)	Σ Δ D DTN. M. Σ 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -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	S C		
	178	STD	0000	0662	3482	2735	0007337	0000	14773										
		OBS	0000	0662	34822	2735			14773										
		STD	0010	0648	3483	2738	0007114	0007	14769										
		OBS	0010	0648	34830	2738			14769										
		STD	0020	0646	3483	2738	0007104	0014	14770										
	004	OBS	0020	0646	34830	2738			14770										
		STD	0030	0644	3483	2738	0007094	0021	14771										
		OBS	0030	0644	34830	2738			14771										
		STD	0050	0644	3483	2738	0007124	0036	14774										
		OBS	0050	0644	34830	2738			14774										
		STD	0075	0644	3483	2738	0007162	0054	14779										
		OBS	0075	0644	34830	2738			14779										
		STD	0100	0643	3483	2738	0007186	0071	14782										
		OBS	0100	0643	34830	2738			14782										
		OBS	0120	0633	34850	2741			14782										
		STD	0125	0633	3485	2741	0006947	0089	14783										
		OBS	0125	0633	34850	2741			14783										
		STD	0150	0641	3489	2743	0006789	0106	14790										
		OBS	0150	0641	34890	2743			14790										
		STD	0200	0641	3494	2747	0006477	0139	14799										
		OBS	0200	0641	34942	2747			14799										
		OBS	0230	0605	34970	2754			14790										
		STD	0250	0589	3496	2756	0005749	0170	14787										
		OBS	0250	0589	34960	2756			14787										
		OBS	0275	0568	34944	2757			14782										
		STD	0300	0542	3493	2759	0005473	0198	14776										
		OBS	0300	0542	34928	2759			14776										
		OBS	0350	0529	34930	2761			14779										
		STD	0400	0494	3493	2765	0005003	0250	14773										
		OBS	0400	0494	34930	2765			14773										
		STD	0500	0469	3494	2769	0004725	0299	14779										
		OBS	0500	0469	34943	2769			14779										
		STD	0600	0443	3495	2772	0004474	0345	14785										
		OBS	0600	0443	34950	2772			14785										
		STD	0700	0428	3495	2774	0004401	0389	14795										
		OBS	0700	0428	34950	2774			14795										
		STD	0800	0400	3495	2776	0004206	0432	14800										
		OBS	0800	0400	34945	2776			14800										
		STD	0900	0382	3493	2777	0004198	0475	14809										
		OBS	0900	0382	34930	2777			14809										
		STD	1000	0374	3493	2778	0004177	0516	14822										
		OBS	1000	0374	34932	2778			14822										
		STD	1100	0363	3493	2779	0004131	0558	14835										
		OBS	1100	0363	34932	2779			14835										
		STD	1200	0359	3494	2780	0004107	0599	14850										
		OBS	1200	0359	34940	2780			14850										
		STD	1300	0357	3495	2781	0004106	0640	14866										
		OBS	1300	0357	34948	2781			14866										
		STD	1400	0352	3495	2782	0004096	0681	14880										
		OBS	1400	0352	34952	2782			14880										
		STD	1500	0347	3496	2783	0004039	0722	14895										
		OBS	1500	0347	34962	2783			14895										

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	MARSDEN SQUAD	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
					10'	1"		MD	DAT							HR	1/10
318043	HT	5238 N	03532 W	184	25	04 13 235	1968	C20	010	3182	15	34	3	3	X1	0 3	0010
		WATER		WIND		BARO- METER (INCH)		AIR TEMP °C		VIL CODE		NO. OBS DEPTHS		SPECIAL OBSERVATIONS			
		COLOR CODE	TEMP. °C	DR.	SPED ON FORCE	SPECIFIC VOLUME ANOMALY- σ_t		DRY BULB	WET BULB								
		DT	SD	35	S08	195	050	038	7	28							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (M)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DTN. M $\Sigma 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH
235		STD	0000	0733	3473	2718	0008974		0000	14800							
		OBS	0000	0733	34728	2718				14800							
		STD	0010	0733	3473	2718	0008990		0009	14802							
		OBS	0010	0733	34728	2718				14802							
		STD	0020	0658	3474	2729	0007943		0017	14774							
		OBS	0020	0658	34738	2729				14774							
		STD	0030	0652	3479	2734	0007516		0025	14774							
		OBS	0030	0652	34787	2734				14774							
		OBS	0040	0632	34789	2737				14767							
		STD	0050	0630	3479	2737	0007253		0040	14768							
		OBS	0050	0630	34789	2737				14768							
		STD	0075	0630	3479	2737	0007290		0058	14772							
		OBS	0075	0630	34789	2737				14772							
		STD	0100	0602	3479	2741	0006938		0076	14765							
		OBS	0100	0602	34794	2741				14765							
		STD	0125	0606	3481	2741	0006941		0093	14771							
		OBS	0125	0606	34805	2741				14771							
		STD	0150	0612	3483	2742	0006896		0111	14778							
		OBS	0150	0612	34826	2742				14778							
		OBS	0170	0612	34826	2742				14781							
		STD	0200	0612	3487	2746	0006610		0144	14787							
		OBS	0200	0612	34874	2746				14787							
		OBS	0230	0611	34925	2750				14792							
		STD	0250	0580	3488	2751	0006210		0176	14782							
		OBS	0250	0580	34883	2751				14782							
		OBS	0270	0594	34914	2751				14792							
		STD	0300	0598	3493	2752	0006193		0207	14798							
		OBS	0300	0598	34925	2752				14798							
		STD	0400	0534	3494	2761	0005390		0265	14789							
		OBS	0400	0534	34943	2761				14789							
		STD	0500	0456	3495	2771	0004512		0315	14774							
		OBS	0500	0456	34951	2771				14774							
	STD	0600	0439	3495	2773	0004405		0359	14783								
	OBS	0600	0439	34953	2773				14783								
	STD	0700	0413	3495	2776	0004210		0402	14789								
	OBS	0700	0413	34952	2776				14789								
	STD	0800	0400	3494	2776	0004213		0445	14800								
	OBS	0800	0400	34944	2776				14800								
	STD	0900	0387	3494	2777	0004212		0487	14811								
	OBS	0900	0387	34936	2777				14811								
	STD	1000	0378	3494	2778	0004195		0529	14824								
	OBS	1000	0378	34936	2778				14824								
	STD	1100	0367	3494	2779	0004150		0570	14836								
	OBS	1100	0367	34936	2779				14836								
	STD	1200	0361	3494	2780	0004154		0612	14850								
	OBS	1200	0361	34937	2780				14850								
	STD	1300	0358	3494	2781	0004156		0654	14866								
	OBS	1300	0358	34943	2781				14866								
	STD	1400	0355	3495	2782	0004134		0695	14882								
	OBS	1400	0355	34952	2782				14882								
	STD	1500	0350	3495	2782	0004165		0736	14896								
	OBS	1500	0350	34950	2782				14896								

TABLE X.—Continued

REFERENCE CRUISE NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE 10"	STATION TIME 10-MIN			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THIR CODE	CLOUD CODES	MODC STATION NUMBER
					18"	1"	MO-DAT		CRUISE NO.	STATION NUMBER			DR.	NO.	PER SEC.			
318043	HT	5241 N	03537 W	184	25	04	14 051	1968	C20	011	3566	15	29	3	3	X2	0 3	0011
MISSING TIME HR 1/10	CARD 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 pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S CLC	
051	STD	0000	0646	3481	2737	0007208	0000	14767										
	OBS	0000	0646	34812	2737			14767										
	STD	0010	0646	3481	2737	0007223	0007	14768										
005	OBS	0010	0646	34812	2737			14768										
	STD	0020	0646	3481	2737	0007238	0014	14770										
	OBS	0020	0646	34812	2737			14770										
	STD	0030	0646	3482	2737	0007179	0022	14772										
	OBS	0030	0646	34822	2737			14772										
	STD	0050	0643	3482	2738	0007171	0036	14774										
	OBS	0050	0643	34822	2738			14774										
	STD	0075	0643	3482	2738	0007209	0054	14778										
	OBS	0075	0643	34822	2738			14778										
	STD	0100	0642	3481	2737	0007315	0072	14782										
	OBS	0100	0642	34811	2737			14782										
	OBS	0120	0613	34813	2741			14773										
	STD	0125	0615	3481	2741	0006994	0090	14775										
	OBS	0125	0615	34813	2741			14775										
	STD	0150	0620	3485	2743	0006840	0107	14781										
	OBS	0150	0620	34847	2743			14781										
	OBS	0165	0630	34876	2744			14788										
	STD	0200	0631	3493	2748	0006444	0141	14795										
	OBS	0200	0631	34929	2748			14795										
	OBS	0225	0629	34938	2749			14799										
	STD	0250	0606	3496	2753	0006002	0172	14794										
	OBS	0250	0606	34955	2753			14794										
	STD	0300	0556	3492	2757	0005704	0201	14781										
	OBS	0300	0556	34920	2757			14781										
	STD	0400	0493	3492	2764	0005081	0255	14772										
	OBS	0400	0493	34918	2764			14772										
	STD	0500	0458	3493	2769	0004714	0304	14774										
	OBS	0500	0458	34927	2769			14774										
	STD	0600	0435	3494	2772	0004470	0350	14781										
	OBS	0600	0435	34938	2772			14781										
	STD	0700	0421	3493	2773	0004474	0394	14792										
	OBS	0700	0421	34929	2773			14792										
	STD	0800	0396	3493	2775	0004292	0438	14798										
	OBS	0800	0396	34927	2775			14798										
	STD	0900	0381	3492	2776	0004260	0481	14809										
	OBS	0900	0381	34920	2776			14809										
	STD	1000	0372	3492	2777	0004242	0524	14821										
	OBS	1000	0372	34920	2777			14821										
	STD	1100	0365	3492	2778	0004236	0566	14835										
	OBS	1100	0365	34921	2778			14835										
	STD	1200	0359	3493	2779	0004218	0608	14849										
	OBS	1200	0359	34925	2779			14849										
	STD	1300	0354	3493	2780	0004202	0650	14864										
	OBS	1300	0354	34930	2780			14864										
	STD	1400	0353	3494	2781	0004189	0692	14881										
	OBS	1400	0353	34941	2781			14881										
	STD	1500	0347	3494	2781	0004230	0734	14895										
	OBS	1500	0347	34936	2781			14895										

TABLE X.—Continued

REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER
					MO	DAY		CRUISE NO.	STATION NUMBER			DR	HC	PER			
					10'	1"		MO	DAY			HR	MIN	SEC			
318043	HT	5239 N	03528 W	184	25	04 14 117	1968	C20	012	3567	15	31	2	2	X2	0 3	0012
				WATER COLOR CODE	WIND TRANS. DIR.		SPEED OF FORCE	BARO- METER (mm)	AIR TEMP. °C		VIL CODE	NO. OF DEPTHS	SPECIAL OBSERVATIONS				
					DRY BULB	WET BULB											
				DT	SD	27	S08	200	056	039	7	31					
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30	3 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 ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S CC
		STD	0000	0624	3474	2734	0007456	0000	14757								
	117	OBS	0000	0624	34742	2734			14757								
		STD	0010	0624	3475	2735	0007396	0007	14759								
		OBS	0010	0624	34752	2735			14759								
		STD	0020	0624	3475	2735	0007410	0015	14760								
	005	OBS	0020	0624	34752	2735			14760								
		STD	0030	0616	3478	2738	0007101	0022	14759								
		OBS	0030	0616	34782	2738			14759								
		OBS	0040	0629	34802	2738			14766								
		STD	0050	0633	3481	2738	0007149	0036	14770								
		OBS	0050	0633	34808	2738			14770								
		STD	0075	0634	3481	2738	0007169	0054	14774								
		OBS	0075	0634	34812	2738			14774								
		STD	0100	0625	3482	2740	0007054	0072	14775								
		OBS	0100	0625	34817	2740			14775								
		OBS	0115	0619	34828	2741			14775								
		STD	0125	0623	3484	2742	0006894	0089	14778								
		OBS	0125	0623	34840	2742			14778								
		STD	0150	0623	3484	2742	0006930	0107	14783								
		OBS	0150	0623	34840	2742			14783								
		OBS	0160	0619	34855	2743			14783								
		STD	0200	0631	3492	2747	0006496	0140	14795								
		OBS	0200	0631	34922	2747			14795								
		OBS	0230	0623	34922	2748			14797								
		STD	0250	0593	3494	2754	0005934	0171	14788								
		OBS	0250	0593	34942	2754			14788								
		OBS	0255	0588	34972	2757			14788								
		OBS	0275	0583	34972	2757			14789								
		STD	0300	0547	3494	2759	0005429	0200	14778								
		OBS	0300	0547	34942	2759			14778								
		OBS	0350	0512	34922	2762			14772								
		STD	0400	0487	3491	2764	0005055	0252	14770								
		OBS	0400	0487	34912	2764			14770								
		STD	0500	0459	3492	2768	0004763	0301	14775								
		OBS	0500	0459	34922	2768			14775								
		STD	0600	0443	3493	2770	0004645	0348	14785								
		OBS	0600	0443	34927	2770			14785								
		STD	0700	0418	3492	2773	0004476	0394	14791								
		OBS	0700	0418	34924	2773			14791								
		STD	0800	0400	3492	2774	0004391	0438	14800								
		OBS	0800	0400	34920	2774			14800								
		STD	0900	0386	3491	2775	0004378	0482	14811								
		OBS	0900	0386	34912	2775			14811								
		STD	1000	0374	3492	2777	0004250	0525	14822								
		OBS	1000	0374	34922	2777			14822								
		STD	1100	0368	3491	2777	0004339	0568	14836								
		OBS	1100	0368	34912	2777			14836								
		STD	1200	0362	3493	2779	0004240	0611	14851								
		OBS	1200	0362	34927	2779			14851								
		STD	1300	0357	3494	2781	0004151	0653	14866								
		OBS	1300	0357	34942	2781			14866								
		STD	1400	0355	3495	2781	0004178	0695	14882								
		OBS	1400	0355	34946	2781			14882								
		STD	1500	0349	3496	2783	0004079	0736	14896								
		OBS	1500	0349	34960	2783			14896								

TABLE X.—Continued

REFERENCE CITY NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE 10° 1'	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WAVE PERIOD	WAVE DIRECTION	WEA- THIR CODE	CLOUD CODES	NODC STATION NUMBER	
					MO	DAY	HR:1/10		CRUISE NO.	STATION NUMBER								
318043	HT	52525N	03533 W	184	25	04	14	173	1968	C20 013	2578	15	23		1	X2	0 3	0013
				WATER		WIND		BARO- METER (mmHg)		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS- MIT	DIR.	SPED. OF FORCE			DRY BULB	WET BULB	VIL CODE						
				DT	SD	22	520	122	067	061	7	27						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-SIB ¹		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 -S μg - ml/l	pH	
173	STD	0000	0642	3478	2735	0007367	0000	14765										
	OBS	0000	0642	34784	2735	0007382	0007	14765										
006	STD	0010	0642	3478	2735	0007382	0007	14766										
	OBS	0010	0642	34784	2735	0007384	0015	14766										
006	STD	0020	0641	3478	2735	0007384	0015	14768										
	OBS	0020	0641	34784	2735	0007399	0022	14768										
006	STD	0030	0641	3478	2735	0007399	0022	14769										
	OBS	0030	0641	34784	2735	0007416	0037	14769										
006	STD	0050	0640	3478	2735	0007416	0037	14772										
	OBS	0050	0640	34784	2735	0007428	0056	14772										
006	STD	0075	0638	3478	2735	0007428	0056	14776										
	OBS	0075	0638	34784	2735	0007171	0074	14776										
006	STD	0100	0636	3482	2738	0007171	0074	14779										
	OBS	0100	0636	34820	2738	0006949	0091	14779										
006	STD	0125	0632	3485	2741	0006949	0091	14782										
	OBS	0125	0632	34848	2741	0006792	0109	14782										
006	STD	0150	0632	3487	2743	0006792	0109	14787										
	OBS	0150	0632	34874	2743	0006377	0142	14787										
006	STD	0185	0631	34901	2746	0006377	0142	14792										
	OBS	0185	0631	34901	2746	0006377	0142	14792										
006	STD	0200	0620	3492	2748	0006377	0142	14791										
	OBS	0200	0620	34919	2748	0006089	0173	14791										
006	STD	0250	0607	3495	2752	0006089	0173	14794										
	OBS	0250	0607	34945	2752	0005787	0202	14794										
006	STD	0300	0583	3495	2756	0005787	0202	14793										
	OBS	0300	0583	34954	2756			14793										
006	STD	0325	0558	34925	2757			14786										
	OBS	0325	0558	34925	2757			14786										
006	STD	0370	0544	34905	2757			14788										
	OBS	0370	0544	34905	2757			14788										
006	STD	0400	0511	3489	2760	0005489	0259	14779										
	OBS	0400	0511	34892	2760			14779										
006	STD	0500	0462	3489	2765	0005074	0312	14775										
	OBS	0500	0462	34885	2765			14775										
006	STD	0600	0429	3491	2770	0004616	0360	14779										
	OBS	0600	0429	34909	2770			14779										
006	STD	0700	0405	3491	2773	0004451	0405	14785										
	OBS	0700	0405	34907	2773			14785										
006	STD	0800	0389	3490	2774	0004381	0450	14795										
	OBS	0800	0389	34904	2774			14795										
006	STD	0900	0375	3490	2775	0004330	0493	14806										
	OBS	0900	0375	34901	2775			14806										
006	STD	1000	0368	3492	2778	0004194	0536	14820										
	OBS	1000	0368	34920	2778			14820										
006	STD	1100	0360	3493	2779	0004139	0577	14833										
	OBS	1100	0360	34926	2779			14833										
006	STD	1200	0359	3493	2779	0004181	0619	14850										
	OBS	1200	0359	34930	2779			14850										
006	STD	1300	0355	3493	2780	0004221	0661	14865										
	OBS	1300	0355	34929	2780			14865										
006	STD	1400	0348	3494	2781	0004141	0703	14879										
	OBS	1400	0348	34939	2781			14879										
006	STD	1500	0343	3495	2782	0004099	0744	14893										
	OBS	1500	0343	34947	2782			14893										

TABLE X.—Continued

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARSDEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX.	WAVE	WEA-	CLOUD	NODC
STATION	NO.	1/10	1/10	SQUARE	GMT		CRUISE	TO	DEPTH	OBSERVATIONS	THIR	CODES	STATION
NO.	CODE						NO.	BOTTOM	OF		CODE		NUMBER
							NUMBER		SAMPLES				
318043	HT	5252 N	03531 W	184 25 06 14 234	1968		C20 014	3365	15	31	3	03	0014

WATER		WIND		BARO-		AIR TEMP °C		VIS.		NO.		SPECIAL		
COLOR	TRANS.	DR.	SPEED	METER	DET	WET	CODE	OBS.	DEPTHS	OBSERVATIONS				
CODE	MI		OR	FORCE	BULB	BULB								
DT	SD	31	533	122	050	039	7	27						

MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₂ -Si	pH	T
TIME	NO.	TYPE					ANOMALY-ΣT	DTM, M.	VELOCITY		μg - μ/l	μg - μ/l	μg - μ/l	μg - μ/l	μg - μ/l		C
HR 1/10								± 10 ²									
		STD	0000	0624	3479	2738	0007097	0000	14758								
234		OBS	0000	0624	34790	2738			14758								
		STD	0010	0624	3479	2738	0007112	0007	14759								
		OBS	0010	0624	34790	2738			14759								
		STD	0020	0624	3479	2738	0007126	0014	14761								
005		OBS	0020	0624	34790	2738			14761								
		STD	0030	0624	3479	2738	0007141	0021	14763								
		OBS	0030	0624	34790	2738			14763								
		STD	0050	0624	3479	2738	0007170	0036	14766								
		OBS	0050	0624	34790	2738			14766								
		STD	0075	0624	3479	2738	0007207	0054	14770								
		OBS	0075	0624	34790	2738			14770								
		STD	0100	0623	3479	2738	0007230	0072	14774								
		OBS	0100	0623	34790	2738			14774								
		STD	0125	0625	3479	2738	0007292	0090	14779								
		OBS	0125	0625	34790	2738			14779								
		STD	0150	0638	3489	2744	0006750	0107	14789								
		OBS	0150	0638	34890	2744			14789								
		STD	0200	0628	3494	2749	0006323	0140	14794								
		OBS	0200	0628	34940	2749			14794								
		STD	0250	0623	3499	2754	0005960	0171	14801								
		OBS	0250	0623	34990	2754			14801								
		STD	0275	0598	34985	2756			14795								
		OBS	0275	0598	34985	2756			14795								
		STD	0300	0572	3496	2758	0005590	0200	14788								
		OBS	0300	0572	34962	2758			14788								
		STD	0325	0539	34940	2760			14779								
		OBS	0325	0539	34940	2760			14779								
		STD	0375	0517	34930	2762			14778								
		OBS	0375	0517	34930	2762			14778								
		STD	0400	0497	3493	2764	0005039	0253	14774								
		OBS	0400	0497	34930	2764			14774								
		STD	0500	0461	3493	2769	0004727	0302	14776								
		OBS	0500	0461	34930	2769			14776								
		STD	0600	0431	3493	2772	0004483	0348	14780								
		OBS	0600	0431	34930	2772			14780								
		STD	0700	0415	3493	2774	0004396	0392	14790								
		OBS	0700	0415	34930	2774			14790								
		STD	0800	0400	3493	2775	0004317	0436	14800								
		OBS	0800	0400	34930	2775			14800								
		STD	0900	0383	3493	2777	0004209	0478	14809								
		OBS	0900	0383	34930	2777			14809								
		STD	1000	0369	3493	2778	0004132	0520	14820								
		OBS	1000	0369	34930	2778			14820								
		STD	1100	0366	3493	2779	0004182	0562	14836								
		OBS	1100	0366	34930	2779			14836								
		STD	1200	0358	3493	2780	0004169	0603	14849								
		OBS	1200	0358	34930	2780			14849								
		STD	1300	0352	3493	2780	0004148	0645	14863								
		OBS	1300	0352	34934	2780			14863								
		STD	1400	0347	3494	2781	0004122	0686	14878								
		OBS	1400	0347	34940	2781			14878								
		STD	1500	0346	3495	2782	0004115	0727	14895								
		OBS	1500	0346	34950	2782			14895								

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	EAST WEST	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NOO. STATION NUMBER
					10"	1"		CRUISE NO.	STATION NUMBER			DIR	NO	PER			
318043	HT	5237 N	03527 W		184	25 04 16 173	1968	C20 015		2889	15	35	5 3		X2	0 3	0015
		WATER		WIND		BARO- METER		AIR TEMP °C		VIS CODE		NO. OBS DEPTH		SPECIAL OBSERVATIONS			
		COLOR CODE	TEMP (°C)	DIR	SPEED (kts)	PREV OR FORCE	UNIT	DET BULB	WET BULB								
		DT	SD	01	S20	164		083	072	7	27						
MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPHC VOLUME AND WAT-518	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 ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	PH	T °C
		STD	0000	0627	3478	2737	0007209	0000	14759								
	173	OBS	0000	0627	34780	2737			14759								
		STD	0010	0627	3478	2737	0007224	0007	14760								
		OBS	0010	0627	34780	2737			14760								
		STD	0020	0627	3478	2737	0007238	0014	14762								
	005	OBS	0020	0627	34780	2737			14762								
		STD	0030	0622	3478	2737	0007191	0022	14762								
		OBS	0030	0622	34780	2737			14762								
		STD	0050	0622	3478	2737	0007220	0036	14765								
		OBS	0050	0622	34780	2737			14765								
		STD	0075	0621	3478	2737	0007244	0054	14769								
		OBS	0075	0621	34780	2737			14769								
		STD	0100	0619	3478	2738	0007255	0072	14772								
		OBS	0100	0619	34780	2738			14772								
		STD	0125	0618	3478	2738	0007278	0090	14776								
		OBS	0125	0618	34780	2738			14776								
		OBS	0135	0598	34760	2739			14769								
		STD	0150	0596	3480	2742	0006912	0108	14771								
		OBS	0150	0596	34797	2742			14771								
		OBS	0178	0595	34835	2745			14776								
		OBS	0190	0570	34830	2748			14768								
		STD	0200	0589	3492	2753	0005970	0140	14778								
		OBS	0200	0589	34921	2753			14778								
		STD	0250	0569	3494	2757	0005634	0169	14779								
		OBS	0250	0569	34942	2757			14779								
		STD	0300	0529	3493	2761	0005293	0197	14771								
		OBS	0300	0529	34931	2761			14771								
		STD	0400	0470	3492	2767	0004811	0247	14763								
		OBS	0400	0470	34918	2767			14763								
		STD	0500	0447	3494	2771	0004490	0294	14770								
		OBS	0500	0447	34940	2771			14770								
		STD	0600	0426	3494	2773	0004350	0338	14778								
		OBS	0600	0426	34940	2773			14778								
		STD	0700	0404	3493	2775	0004246	0381	14785								
		OBS	0700	0404	34933	2775			14785								
		STD	0800	0391	3493	2776	0004197	0423	14796								
		OBS	0800	0391	34932	2776			14796								
		STD	0900	0377	3493	2778	0004132	0465	14807								
		OBS	0900	0377	34931	2778			14807								
		STD	1000	0368	3492	2778	0004179	0506	14820								
		OBS	1000	0368	34922	2778			14820								
		STD	1100	0360	3492	2779	0004162	0548	14833								
		OBS	1100	0360	34923	2779			14833								
		STD	1200	0356	3493	2780	0004122	0589	14848								
		OBS	1200	0356	34933	2780			14848								
		STD	1300	0351	3494	2781	0004077	0630	14863								
		OBS	1300	0351	34942	2781			14863								
		STD	1400	0347	3495	2782	0004034	0671	14878								
		OBS	1400	0347	34952	2782			14878								
		STD	1500	0340	3495	2783	0004009	0711	14892								
		OBS	1500	0340	34954	2783			14892								

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	F 10'	MARSDEN SQUARE		STATION TIME 10-MIN		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SOUNDING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	WODC STATION NUMBER
					10'	1°	MO	DAT		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			
318043	HT	5242 N	03527 W	184	25	04	16	237	1968	C20	016	3475	15	39	3	2	X2	0 3	0016
					WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS					
					COLOR CODE	TEMP. °C	DIR.	SPEED KTS	METER WIND	DRY BULB	WET BULB	VS. CODE							
					DT	SD	01	S25	086	067	061	6	30						
MESSAGE TIME 1/18	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S %	PGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DTM, M. ± 10'	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	Σ °C		
		STD	0000	0632	3481	2738	0007085	0000	14761										
	237	OBS	0000	0632	34805	2738			14761										
		STD	0010	0632	3481	2738	0007099	0007	14763										
		OBS	0010	0632	34805	2738			14763										
		STD	0020	0632	3481	2738	0007114	0014	14764										
	005	OBS	0020	0632	34805	2738			14764										
		STD	0030	0632	3481	2738	0007129	0021	14766										
		OBS	0030	0632	34805	2738			14766										
		STD	0050	0632	3481	2738	0007121	0036	14769										
		OBS	0050	0632	34810	2738			14769										
		STD	0075	0630	3481	2738	0007133	0053	14773										
		OBS	0075	0630	34810	2738			14773										
		STD	0100	0629	3481	2739	0007127	0071	14776										
		OBS	0100	0629	34814	2739			14776										
		STD	0125	0629	3481	2739	0007164	0089	14781										
		OBS	0125	0629	34814	2739			14781										
		STD	0150	0629	3481	2739	0007201	0107	14785										
		OBS	0150	0629	34814	2739			14785										
		STD	0160	0623	34850	2743			14784										
		OBS	0200	0629	3491	2746	0006559	0141	14794										
		STD	0200	0629	34910	2746			14794										
		OBS	0250	0600	3494	2753	0006037	0173	14791										
		STD	0250	0600	34940	2753			14791										
		OBS	0285	0573	34970	2758			14786										
		STD	0300	0542	3493	2759	0005458	0202	14776										
		OBS	0300	0542	34930	2759			14776										
		STD	0317	0545	34940	2760			14780										
		OBS	0332	0510	34890	2760			14767										
		STD	0338	0520	34930	2762			14773										
		OBS	0350	0521	34930	2762			14776										
		STD	0400	0484	3493	2766	0004885	0253	14769										
		OBS	0400	0484	34930	2766			14769										
		STD	0500	0461	3493	2769	0004727	0301	14776										
		OBS	0500	0461	34930	2769			14776										
		STD	0600	0431	3493	2772	0004483	0347	14780										
		OBS	0600	0431	34930	2772			14780										
		STD	0700	0418	3493	2773	0004431	0392	14791										
		OBS	0700	0418	34930	2773			14791										
		STD	0800	0398	3493	2775	0004294	0436	14799										
		OBS	0800	0398	34930	2775			14799										
		STD	0900	0382	3492	2776	0004272	0479	14809										
		OBS	0900	0382	34920	2776			14809										
		STD	1000	0370	3492	2778	0004218	0521	14821										
		OBS	1000	0370	34920	2778			14821										
		STD	1100	0364	3492	2778	0004232	0563	14835										
		OBS	1100	0364	34920	2778			14835										
		STD	1200	0362	3493	2779	0004217	0605	14851										
		OBS	1200	0362	34930	2779			14851										
		STD	1300	0350	3494	2781	0004079	0647	14863										
		OBS	1300	0350	34940	2781			14863										
		STD	1400	0355	3495	2781	0004148	0688	14882										
		OBS	1400	0355	34950	2781			14882										
		STD	1500	0349	3495	2782	0004131	0729	14896										
		OBS	1500	0349	34953	2782			14896										

TABLE X.—Continued

REFERENCE CITY CODE	SHIP ID. NO. CODE	LATITUDE ° ' "/18	LONGITUDE ° ' "/18	MAGNETIC SQUARE ° ' "	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS OF 1" AMPL.	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	NOCC STATION NUMBER	
					10"	1'	MO. DAY HE. 1/10		CRUISE NO.	STATION NUMBER			DR.	HC	PS	SEA				
318043	HT	5235 N	03545 W	D 184	25	04	17 050	1968	C20	017	3117	15	01				2	X2	013	0017
					WATER		WIND	BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. MU	DR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE									
					DT	SD	01	S14	180	072	056	6	27							
MESSAGE TIME HB 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DTH. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH			
		STD	0000	0626	3476	2735	0007368		0000	14758										
	050	OBS	0000	0626	34757	2735				14758										
		STD	0010	0626	3476	2735	0007338		0007	14760										
		OBS	0010	0626	34763	2735				14760										
		STD	0020	0626	3476	2735	0007353		0015	14761										
	005	OBS	0020	0626	34763	2735				14761										
		STD	0030	0626	3477	2736	0007323		0022	14763										
		OBS	0030	0626	34769	2736				14763										
		STD	0050	0626	3479	2737	0007203		0037	14767										
		OBS	0050	0626	34789	2737				14767										
		STD	0075	0625	3481	2739	0007055		0054	14771										
		OBS	0075	0625	34812	2739				14771										
		STD	0100	0623	3482	2740	0007007		0072	14774										
		OBS	0100	0623	34820	2740				14774										
		STD	0125	0620	3482	2741	0007005		0089	14777										
		OBS	0125	0620	34820	2741				14777										
		STD	0150	0621	3483	2741	0006972		0107	14782										
		OBS	0150	0621	34831	2741				14782										
		STD	0200	0615	3490	2748	0006439		0140	14788										
		OBS	0200	0615	34902	2748				14788										
		STD	0215	0616	34940	2751				14792										
		OBS	0215	0616	34940	2751	0005760		0171	14782										
		STD	0250	0578	3494	2755				14782										
		OBS	0250	0578	34940	2755				14782										
		STD	0275	0534	34931	2760				14768										
		OBS	0275	0534	34931	2760				14768										
		STD	0290	0543	34958	2761				14775										
		OBS	0290	0543	34958	2761				14775										
		STD	0300	0540	3496	2762	0005225		0198	14775										
		OBS	0300	0540	34958	2762				14775										
		STD	0400	0484	3494	2767	0004811		0249	14769										
		OBS	0400	0484	34940	2767				14769										
		STD	0500	0451	3495	2771	0004477		0295	14772										
		OBS	0500	0451	34948	2771				14772										
		STD	0600	0430	3495	2773	0004352		0339	14779										
		OBS	0600	0430	34946	2773				14779										
		STD	0700	0411	3494	2775	0004268		0382	14788										
		OBS	0700	0411	34941	2775				14788										
		STD	0800	0395	3494	2777	0004184		0425	14798										
		OBS	0800	0395	34940	2777				14798										
		STD	0900	0378	3493	2777	0004158		0466	14807										
		OBS	0900	0378	34929	2777				14807										
		STD	1000	0370	3493	2779	0004122		0508	14821										
		OBS	1000	0370	34933	2779				14821										
		STD	1100	0361	3494	2780	0004055		0549	14834										
		OBS	1100	0361	34939	2780				14834										
		STD	1200	0354	3494	2781	0004047		0589	14848										
		OBS	1200	0354	34940	2781				14848										
		STD	1300	0351	3495	2782	0004010		0629	14863										
		OBS	1300	0351	34951	2782				14863										
		STD	1400	0346	3495	2782	0004028		0670	14878										
		OBS	1400	0346	34951	2782				14878										
		STD	1500	0345	3496	2783	0004051		0710	14894										
		OBS	1500	0345	34957	2783				14894										

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[illegible]

TABLE X.—Continued

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	WAVE	WIND	CLOUD	NO. OF					
CTR	NO.	1/18	2/18	1/18	MO	DAY	NO.	TO	OBSERVATIONS	CODE	CODE	STATION					
CODE								BOTTOM				NUMBER					
318043	HT	5247 N	03541 W	D	184	25	04 17 174	1968	C20 019	3658	15	36 2 2	X2 0 3	0019			
WATER	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND			
CODE	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR			
DT	SD	35	520	137	067	067	6	30									
MESSAGE	CAS	CARD	DEPTH	T	S	SIGMA	SPECIFIC VOLUME	S.D.	SOUND	O ₂	PO ₂	TOTAL-P	NO ₂	NO ₃	SiO ₂	pH	CO ₂
NO.	NO.	TYPE	(m)	(°C)	(‰)	(m ²)	(cm ³ /g)	(°C)	VELOCITY	(ml/l)	(atm)	(atm)	(atm)	(atm)	(atm)		(atm)
		STD	0000	0654	3476	2731	0007705	0000	14769								
174		OBS	0000	0654	34759	2731			14769								
		STD	0010	0654	3476	2731	0007728	0008	14771								
		OBS	0010	0654	34758	2731			14771								
		STD	0020	0654	3476	2731	0007728	0015	14773								
005		OBS	0020	0654	34760	2731			14773								
		STD	0030	0653	3477	2732	0007693	0023	14774								
		OBS	0030	0653	34765	2732			14774								
		OBS	0035	0653	34812	2736			14775								
		OBS	0045	0632	34812	2738			14769								
		STD	0050	0631	3481	2738	0007094	0038	14769								
		OBS	0050	0631	34812	2738			14769								
		STD	0075	0629	3481	2739	0007105	0056	14772								
		OBS	0075	0629	34812	2739			14772								
		STD	0100	0627	3481	2739	0007109	0073	14776								
		OBS	0100	0627	34813	2739			14776								
		STD	0125	0627	3482	2740	0007094	0091	14780								
		OBS	0125	0627	34820	2740			14780								
		STD	0150	0625	3482	2740	0007083	0109	14783								
		OBS	0150	0625	34823	2740			14783								
		OBS	0160	0623	34831	2741			14784								
		OBS	0165	0616	34831	2742			14782								
		STD	0200	0614	3489	2747	0006501	0143	14788								
		OBS	0200	0614	34892	2747			14788								
		OBS	0230	0614	34938	2751			14793								
		STD	0250	0599	3497	2755	0005824	0174	14791								
		OBS	0250	0599	34967	2755			14791								
		OBS	0275	0533	34892	2757			14768								
		STD	0300	0518	3490	2760	0005392	0202	14766								
		OBS	0300	0518	34900	2760			14766								
		STD	0400	0487	3494	2766	0004861	0253	14770								
		OBS	0400	0487	34938	2766			14770								
		STD	0500	0453	3494	2770	0004544	0300	14772								
		OBS	0500	0453	34942	2770			14772								
		STD	0600	0435	3495	2773	0004403	0345	14782								
		OBS	0600	0435	34947	2773			14782								
		STD	0700	0411	3493	2774	0004350	0389	14788								
		OBS	0700	0411	34930	2774			14788								
		STD	0800	0396	3493	2776	0004270	0432	14798								
		OBS	0800	0396	34930	2776			14798								
		STD	0900	0380	3492	2777	0004233	0474	14808								
		OBS	0900	0380	34922	2777			14808								
		STD	1000	0372	3492	2777	0004234	0516	14821								
		OBS	1000	0372	34921	2777			14821								
		STD	1100	0364	3493	2779	0004165	0558	14835								
		OBS	1100	0364	34929	2779			14835								
		STD	1200	0360	3493	2779	0004200	0600	14850								
		OBS	1200	0360	34929	2779			14850								
		STD	1300	0357	3494	2780	0004173	0642	14866								
		OBS	1300	0357	34939	2780			14866								
		STD	1400	0350	3495	2782	0004093	0684	14880								
		OBS	1400	0350	34949	2782			14880								
		STD	1500	0349	3495	2782	0004153	0725	14896								
		OBS	1500	0349	34950	2782			14896								

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODE	NODC STATION NUMBER				
										CRUISE NO.	STATION NUMBER									
					10'	1'	MO	DAT									HE/10			
318043	HT	5242 N	03542 W	184	25	04	17	233	1968	C20	020	3566	15 01		2	X2	0 3	0020		
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
COLOR CODE		TEMP. (°C)		DIR.	SPEED OR FORCE		BARO-METER (mb)		DRY BULB	WET BULB	VIS CODE									
DT		SD		01	530		112		072		061		6		30					
MESSAGE NO. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20		Σ Δ D DYN. M. ± 10'		SKIND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH
		STD	0000	0647	3475	2731		0007684		0000		14766								
233		OBS	0000	0647	34750	2731						14766								
		STD	0010	0647	3475	2731		0007699		0008		14768								
		OBS	0010	0647	34750	2731						14768								
		STD	0020	0647	3475	2732		0007684		0015		14770								
004		OBS	0020	0647	34754	2732						14770								
		STD	0030	0646	3476	2732		0007671		0023		14771								
		OBS	0030	0646	34756	2732						14771								
		STD	0050	0633	3477	2735		0007470		0038		14769								
		OBS	0050	0633	34765	2735						14769								
		STD	0075	0631	3477	2736		0007408		0057		14772								
		OBS	0090	0629	34780	2736						14774								
		STD	0100	0607	3478	2739		0007105		0075		14767								
		OBS	0100	0607	34780	2739						14767								
		OBS	0105	0603	34778	2739						14766								
		STD	0125	0605	3479	2740		0007041		0093		14771								
		OBS	0125	0605	34790	2740						14771								
		OBS	0130	0617	34805	2740						14776								
		STD	0150	0597	3479	2741		0006976		0110		14772								
		OBS	0150	0597	34790	2741						14772								
		OBS	0160	0599	34820	2743						14774								
		OBS	0175	0593	34838	2745						14775								
		STD	0200	0580	3486	2749		0006298		0143		14774								
		OBS	0200	0580	34862	2749						14774								
		STD	0250	0535	3489	2757		0005622		0173		14764								
		OBS	0250	0535	34888	2757						14764								
		STD	0300	0510	3493	2763		0005059		0200		14763								
		OBS	0300	0510	34932	2763						14763								
		STD	0400	0463	3492	2768		0004693		0249		14760								
		OBS	0400	0463	34923	2768						14760								
		STD	0500	0445	3493	2771		0004511		0295		14769								
		OBS	0500	0445	34934	2771						14769								
		STD	0600	0428	3495	2774		0004322		0339		14779								
		OBS	0600	0428	34947	2774						14779								
		STD	0700	0405	3494	2775		0004243		0382		14785								
		OBS	0700	0405	34935	2775						14785								
		STD	0800	0390	3493	2777		0004171		0424		14796								
		OBS	0800	0390	34934	2777						14796								
		STD	0900	0377	3493	2778		0004146		0465		14807								
		OBS	0900	0377	34929	2778						14807								
		STD	1000	0366	3493	2779		0004089		0506		14819								
		OBS	1000	0366	34931	2779						14819								
		STD	1100	0361	3493	2780		0004092		0547		14834								
		OBS	1100	0361	34934	2780						14834								
		STD	1200	0357	3494	2780		0004120		0588		14849								
		OBS	1200	0357	34935	2780						14849								
		OBS	1250	0355	34937	2780						14856								
		STD	1300	0354																
		OBS	1300	0354																
		STD	1400	0353																
		OBS	1400	0353																
		STD	1500	0351																
		OBS	1500	0351																

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	P S	MARSEEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		WDC STATION NUMBER
					1°	1'	MO	DAT		HL	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
318043	HT	5242 N	03515 W	D	184	25	04	18	112	1968	C20 021	3566	15	36			3	X2	03	0021
WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		COLOR CODE		WIND		WIND		WIND		WIND		
DT	SD	35	529	081	067	067	6	33		DT	SD	35	529	081	067	067	6	33		
MESSAGE TIME HR. 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	± Δ D DTH. M. E 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S C			
		STD	0000	0656	3476	2731	0007708	0000	14770											
112		OBS	0000	0656	34762	2731			14770											
		STD	0010	0656	3476	2731	0007724	0008	14772											
		OBS	0010	0656	34762	2731			14772											
		STD	0020	0655	3476	2731	0007726	0015	14773											
003		OBS	0020	0655	34762	2731			14773											
		STD	0030	0654	3476	2732	0007728	0023	14774											
		OBS	0030	0654	34762	2732			14774											
		OBS	0040	0654	34762	2732			14776											
		STD	0050	0644	3479	2735	0007407	0038	14774											
		OBS	0050	0644	34792	2735			14774											
		OBS	0055	0629	34783	2736			14769											
		STD	0075	0626	3480	2738	0007157	0057	14771											
		OBS	0075	0626	34800	2738			14771											
		OBS	0080	0625	34818	2740			14772											
		STD	0100	0613	3481	2741	0006963	0074	14770											
		OBS	0100	0613	34809	2741			14770											
		OBS	0110	0601	34789	2741			14767											
		OBS	0120	0589	34780	2741			14763											
		STD	0125	0595	3480	2742	0006842	0091	14767											
		OBS	0125	0595	34800	2742			14767											
		STD	0150	0583	3480	2744	0006751	0108	14766											
		OBS	0150	0583	34797	2744			14766											
		OBS	0160	0576	34812	2746			14765											
		STD	0200	0582	3488	2750	0006189	0141	14775											
		OBS	0200	0582	34880	2750			14775											
		STD	0250	0561	3491	2755	0005803	0171	14775											
		OBS	0250	0561	34906	2755			14775											
		STD	0300	0514	3492	2762	0005203	0198	14764											
		OBS	0300	0514	34919	2762			14764											
		OBS	0330	0482	34905	2764			14756											
		OBS	0380	0469	34907	2766			14759											
		OBS	0390	0479	34943	2768			14765											
		STD	0400	0474	3494	2768	0004671	0248	14765											
		OBS	0400	0474	34943	2768			14765											
		STD	0500	0445	3494	2771	0004437	0293	14769											
		OBS	0500	0445	34944	2771			14769											
		STD	0600	0426	3494	2774	0004321	0337	14778											
		OBS	0600	0426	34944	2774			14778											
		STD	0700	0409	3494	2775	0004252	0380	14787											
		OBS	0700	0409	34940	2775			14787											
		STD	0800	0391	3494	2777	0004153	0422	14796											
		OBS	0800	0391	34938	2777			14796											
		STD	0900	0378	3493	2778	0004128	0463	14807											
		OBS	0900	0378	34933	2778			14807											
		STD	1000	0369	3493	2778	0004132	0505	14820											
		OBS	1000	0369	34930	2778			14820											
		STD	1100	0362	3494	2780	0004067	0546	14834											
		OBS	1100	0362	34939	2780			14834											
		STD	1200	0357	3494	2780	0004090	0586	14849											
		OBS	1200	0357	34939	2780			14849											
		STD	1300	0355	3495	2781	0004104	0627	14865											
		OBS	1300	0355	34945	2781			14865											
		STD	1400	0348	3495	2782	0004097	0648	14879											
		OBS	1400	0348	34945	2782			14879											
		STD	1500	0345	3496	2783	0004051	0709	14894											
		OBS	1500	0345	34957	2783			14894											

TABLE X.—Continued

[illegible]

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	P	WASSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 1/4 MILE	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		MODE STATION NUMBER
								CRUISE NO.	STATION NUMBER			DR.	HGT	PER		FTN	AMT	
318043	HT	52465N	03532 W	184	25 04 20 050	1968	C20 023			3302	15	34			3	X2	0 3	0023
					WATER	WIND	AIR TEMP. °C			NO. OF DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. DIR.	DIR. OF FLOW	BARO-METER (mm)	DRY BULB					WET BULB	VIS CODE			
					DT	SD	34	517	119					067	056	6	30	
MESSAGE TIME ME 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DTH. M. $\pm 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -S $\mu g - ml/l$	PH	S C	C
		STD	0000	0633	3482	2739		0007000	0000	14762								
050		OBS	0000	0633	34818	2739				14762								
		STD	0010	0633	3482	2739		0007015	0007	14763								
		OBS	0010	0633	34818	2739				14763								
005		STD	0020	0633	3482	2739		0007030	0014	14765								
		OBS	0020	0633	34818	2739				14765								
		STD	0030	0633	3482	2739		0007045	0021	14767								
		OBS	0030	0633	34818	2739				14767								
		STD	0050	0634	3482	2739		0007087	0035	14770								
		OBS	0050	0634	34818	2739				14770								
		STD	0075	0634	3482	2739		0007124	0053	14774								
		OBS	0075	0634	34818	2739				14774								
		STD	0100	0633	3482	2739		0007156	0071	14778								
		OBS	0100	0633	34817	2739				14778								
		STD	0125	0630	3481	2739		0007177	0089	14781								
		OBS	0125	0630	34814	2739				14781								
		STD	0150	0627	3488	2744		0006706	0106	14785								
		OBS	0150	0627	34877	2744				14785								
		OBS	0190	0621	34946	2750				14790								
		STD	0200	0608	3495	2752		0006023	0138	14786								
		OBS	0200	0608	34946	2752				14786								
		STD	0250	0568	3495	2757		0005592	0167	14778								
		OBS	0250	0568	34946	2757				14778								
		OBS	0265	0561	34956	2759				14778								
		STD	0300	0530	3494	2761		0005268	0194	14771								
		OBS	0300	0530	34936	2761				14771								
		OBS	0315	0518	34911	2760				14768								
		OBS	0325	0498	34901	2762				14762								
		STD	0400	0460	3490	2766		0004844	0245	14758								
		OBS	0400	0460	34898	2766				14758								
		OBS	0410	0459	34915	2768				14760								
		OBS	0415	0466	34926	2768				14764								
		STD	0500	0450	3494	2770		0004554	0292	14771								
		OBS	0500	0450	34936	2770				14771								
		STD	0600	0422	3494	2773		0004341	0336	14776								
		OBS	0600	0422	34935	2773				14776								
		STD	0700	0401	3493	2775		0004256	0379	14784								
		OBS	0700	0401	34927	2775				14784								
		STD	0800	0389	3493	2776		0004211	0421	14795								
		OBS	0800	0389	34927	2776				14795								
		STD	0900	0378	3493	2777		0004188	0463	14807								
		OBS	0900	0378	34925	2777				14807								
		STD	1000	0369	3492	2778		0004213	0505	14820								
		OBS	1000	0369	34919	2778				14820								
		STD	1100	0359	3492	2778		0004187	0547	14833								
		OBS	1100	0359	34918	2778				14833								
		STD	1200	0356	3493	2780		0004159	0589	14848								
		OBS	1200	0356	34928	2780				14848								
		STD	1300	0348	3494	2781		0004084	0630	14862								
		OBS	1300	0348	34936	2781				14862								
		STD	1400	0344	3494	2782		0004077	0671	14877								
		OBS	1400	0344	34941	2782				14877								
		STD	1500	0342	3495	2782		0004101	0712	14893								
		OBS	1500	0342	34945	2782				14893								

TABLE X.—Continued

REFERENCE CIRCUIT NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WAVE SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	NODC STATION NUMBER	
					10'	1'		CRUISE NO.	STATION NUMBER			DIR.	PER	SEA				
318043	HT	52415N	03531 W	184	25	04	20	114	1968	C20	024	3566	15	35	2	X2	0 3	0024
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO OBS DEPTH		SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS- MIT	DR.	SPEED OR FORCE	DRY BULB	WET BULB	WIL CODE	WIL CODE							
				DT	SD	34	525	142	072	056	7	28						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	Σ Δ D DYN. M Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -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	1 C C	
		STD	0000	0635	3481	2738		0007100	0000	14762								
	114	OBS	0000	0635	34808	2738				14762								
		STD	0010	0635	3481	2738		0007115	0007	14764								
		OBS	0010	0635	34808	2738				14764								
		STD	0020	0635	3481	2738		0007129	0014	14766								
	002	OBS	0020	0635	34808	2738				14766								
		STD	0030	0635	3481	2738		0007144	0021	14767								
		OBS	0030	0635	34808	2738				14767								
		STD	0050	0635	3481	2738		0007174	0036	14771								
		OBS	0050	0635	34808	2738				14771								
		OBS	0060	0635	34808	2738				14772								
		STD	0075	0635	3481	2738		0007211	0054	14775								
		OBS	0075	0635	34808	2738				14775								
		STD	0100	0632	3481	2738		0007210	0072	14778								
		OBS	0100	0632	34808	2738				14778								
		STD	0125	0621	3481	2739		0007107	0090	14777								
		OBS	0125	0621	34808	2739				14777								
		STD	0150	0617	3483	2742		0006944	0107	14780								
		OBS	0150	0617	34828	2742				14780								
		STD	0200	0613	3488	2746		0006593	0141	14787								
		OBS	0200	0613	34878	2746				14787								
		OBS	0220	0582	34882	2750				14778								
		STD	0250	0543	3488	2755		0005763	0172	14767								
		OBS	0250	0543	34882	2755				14767								
		OBS	0260	0522	34882	2758				14760								
		STD	0300	0511	3488	2759		0005443	0200	14763								
		OBS	0300	0511	34882	2759				14763								
		STD	0400	0480	3491	2765		0005002	0252	14767								
		OBS	0400	0480	34908	2765				14767								
		OBS	0450	0470	34928	2767				14771								
		STD	0500	0453	3493	2769		0004649	0300	14772								
		OBS	0500	0453	34928	2769				14772								
		STD	0600	0435	3493	2771		0004544	0346	14781								
		OBS	0600	0435	34928	2771				14781								
		STD	0700	0408	3492	2773		0004404	0391	14787								
		OBS	0700	0408	34918	2773				14787								
		STD	0800	0392	3492	2775		0004313	0435	14796								
		OBS	0800	0392	34918	2775				14796								
		STD	0900	0379	3491	2776		0004325	0478	14808								
		OBS	0900	0379	34908	2776				14808								
		STD	1000	0372	3491	2776		0004330	0521	14821								
		OBS	1000	0372	34908	2776				14821								
		STD	1100	0364	3491	2777		0004320	0564	14835								
		OBS	1100	0364	34908	2777				14835								
		STD	1200	0358	3492	2779		0004257	0607	14849								
		OBS	1200	0358	34918	2779				14849								
		STD	1300	0355	3494	2780		0004155	0649	14865								
		OBS	1300	0355	34938	2780				14865								
		STD	1400	0355	3494	2780		0004236	0691	14882								
		OBS	1400	0355	34938	2780				14882								
		STD	1500	0344	3494	2782		0004177	0733	14894								
		OBS	1500	0344	34938	2782				14894								

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WAVE PERIOD SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SWELL	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	MODE STATION NUMBER				
					10'	1"		MO	DAY			HR	1/10	CRUISE NO.				STATION NUMBER	DR	HG	PER
318043	HT	5245 N	03530 W	184	25	04	20	173	1968	C20	025	3603	15	33		3	X2	0 3	0025		
				WIND		BARO-METER		AIR TEMP °C		VIR CODE	NO. OF SPECIAL OBSERVATIONS										
COLOR CODE		WIND SPTS	DIR	SPED OF WIND (knts)	DIR	WET BULB	WET BULB	DEPTH													
DT		SD	32	S17	149	056	050	7	29												
MESSAGE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY-30P	S Δ D OTW M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - g/l	TOTAL-P pg - g/l	NO ₃ -N pg - g/l	NO ₃ -N pg - g/l	SiO ₄ -S pg - g/l	PH	SIC				
173		STD	0000	0638	3480	2736	0007234	0000	14763												
		OBS	0000	0638	34795	2736			14763												
		STD	0010	0637	3480	2737	0007222	0007	14765												
005		OBS	0010	0637	34797	2737			14765												
		STD	0020	0637	3480	2737	0007229	0014	14766												
		OBS	0020	0637	34798	2737			14766												
		STD	0030	0637	3480	2737	0007244	0022	14768												
		OBS	0030	0637	34798	2737			14768												
		STD	0050	0634	3480	2737	0007236	0036	14770												
		OBS	0050	0634	34798	2737			14770												
		STD	0075	0633	3480	2737	0007260	0054	14774												
		OBS	0075	0633	34798	2737			14774												
		STD	0100	0631	3480	2737	0007264	0072	14777												
		OBS	0100	0631	34799	2737			14777												
		STD	0125	0628	3480	2738	0007256	0091	14780												
		OBS	0125	0628	34800	2738			14780												
		OBS	0140	0614	34822	2742			14777												
		STD	0150	0613	3485	2743	0006767	0108	14779												
		OBS	0150	0613	34845	2743			14779												
		OBS	0165	0611	34850	2744			14780												
		OBS	0175	0591	34850	2747			14774												
		OBS	0190	0589	34899	2751			14776												
		STD	0200	0581	3490	2752	0006050	0140	14775												
		OBS	0200	0581	34897	2752			14775												
		STD	0250	0533	3489	2757	0005598	0169	14763												
		OBS	0250	0533	34888	2757			14763												
		OBS	0270	0529	34889	2757			14765												
		STD	0300	0500	3488	2760	0005336	0197	14758												
		OBS	0300	0500	34879	2760			14758												
		STD	0400	0459	3489	2765	0004907	0248	14758												
		OBS	0400	0459	34888	2765			14758												
		STD	0500	0438	3490	2769	0004691	0296	14766												
		OBS	0500	0438	34899	2769			14766												
	STD	0600	0425	3491	2771	0004577	0342	14777													
	OBS	0600	0425	34908	2771			14777													
	STD	0700	0406	3491	2773	0004463	0387	14786													
	OBS	0700	0406	34907	2773			14786													
	STD	0800	0392	3490	2774	0004446	0432	14796													
	OBS	0800	0392	34900	2774			14796													
	STD	0900	0378	3490	2775	0004373	0476	14807													
	OBS	0900	0378	34900	2775			14807													
	STD	1000	0369	3491	2777	0004302	0519	14820													
	OBS	1000	0369	34907	2777			14820													
	STD	1100	0361	3491	2778	0004277	0562	14833													
	OBS	1100	0361	34909	2778			14833													
	STD	1200	0357	3492	2779	0004216	0605	14849													
	OBS	1200	0357	34922	2779			14849													
	STD	1300	0352	3492	2779	0004236	0647	14863													
	OBS	1300	0352	34922	2779			14863													
	STD	1400	0348	3492	2780	0004252	0689	14878													
	OBS	1400	0348	34924	2780			14878													
	STD	1500	0346	3493	2781	0004276	0732	14894													
	OBS	1500	0346	34928	2781			14894													

TABLE X.—Continued

REFERENCE SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION TIME 1/10	YEAR	ORIGINATOR'S		DEPTH NO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						CRUISE NO.	STATION NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
318043	HT	5242 N	035165 W	184 25 04 20 233	1968	C20	026	3383 15 33		3	X2	0 3	0026																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
MESSAGE TIME 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	SOUND VELOCITY m/s	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E W	1/10 E W		STATION TIME (GMT)		YEAR	ORIGINATOR		DEPTH TO BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS			WEA- TH- R CODE	CLOUD CODES	HDDC STATION NUMBER	
					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DR	HGT	PER				SEA
318043	HT	5255 N	03550 W	D	184	25	04	21	052	1968	C20 027	3199	15	31			2	X2	0 3	0027
		WATER		WIND		BARO- METER		AIR TEMP. °C		WET		NO. OF DEFINIS		SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. M	DR.	WIND OR FORCE	BARO- METER (mm)	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	
		DT	SD	30	520	139	056	050	7	31										
MESSINGA TIME 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. Σ 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	UO ₄ -S pg - ml/l	PH	Σ OD			
		STD	0000	0628	3481	2739	0006982	0000	14760											
	052	OBS	0000	0628	34812	2739			14760											
		STD	0010	0628	3481	2739	0006997	0007	14761											
		OBS	0010	0628	34812	2739			14761											
	004	STD	0020	0628	3481	2739	0007012	0014	14763											
		OBS	0020	0628	34812	2739			14763											
		STD	0030	0629	3481	2739	0007039	0021	14765											
		OBS	0030	0629	34812	2739			14765											
		STD	0050	0629	3481	2739	0007069	0035	14768											
		OBS	0050	0629	34812	2739			14768											
		STD	0075	0630	3481	2739	0007118	0053	14773											
		OBS	0075	0630	34812	2739			14773											
		STD	0100	0634	3483	2740	0007071	0071	14779											
		OBS	0100	0634	34830	2740			14779											
		STD	0125	0634	3485	2741	0006959	0088	14783											
		OBS	0125	0634	34850	2741			14783											
		OBS	0140	0633	34890	2744			14786											
		STD	0150	0632	3492	2747	0006464	0105	14787											
		OBS	0150	0632	34918	2747			14787											
		OBS	0160	0628	34918	2747			14787											
		STD	0200	0629	3495	2749	0006299	0137	14795											
		OBS	0200	0629	34945	2749			14795											
		STD	0250	0629	3496	2751	0006239	0168	14803											
		OBS	0250	0629	34963	2751			14803											
		STD	0300	0572	3496	2758	0005612	0198	14788											
		OBS	0300	0572	34959	2758			14788											
		OBS	0370	0524	34949	2763			14780											
		OBS	0380	0506	34937	2764			14774											
		STD	0400	0501	3494	2765	0005012	0251	14776											
		OBS	0400	0501	34940	2765			14776											
		OBS	0410	0486	34930	2766			14771											
		OBS	0425	0484	34948	2767			14773											
		OBS	0435	0470	34930	2768			14769											
		STD	0500	0459	3494	2770	0004637	0299	14775											
		OBS	0500	0459	34939	2770			14775											
		STD	0600	0433	3494	2772	0004439	0345	14781											
		OBS	0600	0433	34939	2772			14781											
		STD	0700	0409	3493	2774	0004327	0388	14787											
		OBS	0700	0409	34930	2774			14787											
		STD	0800	0391	3492	2775	0004279	0431	14796											
		OBS	0800	0391	34921	2775			14796											
		STD	0900	0379	3492	2777	0004236	0474	14808											
		OBS	0900	0379	34920	2777			14808											
		STD	1000	0370	3493	2778	0004166	0516	14821											
		OBS	1000	0370	34927	2778			14821											
		STD	1100	0364	3493	2779	0004180	0558	14835											
		OBS	1100	0364	34927	2779			14835											
		STD	1200	0356	3493	2780	0004145	0599	14848											
		OBS	1200	0356	34930	2780			14848											
		STD	1300	0351	3494	2781	0004106	0641	14863											
		OBS	1300	0351	34938	2781			14863											
		STD	1400	0347	3494	2781	0004114	0682	14878											
		OBS	1400	0347	34941	2781			14878											
		STD	1500	0347	3495	2782	0004127	0723	14895											
		OBS	1500	0347	34950	2782			14895											

TABLE X.—Continued

REFERENCE	SHIP		LATITUDE	LONGITUDE	E	W. S. D. N.		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	WAVE	WAVE	WAVE	WEA-	CLOUD	MODC											
	NO.	CODE				10'	1'	MO	DAY		HR.1/10	CRUISE								STATION	NO.	NUMBER	TO	OBSERVATIONS	PERIOD	HEIGHT	SEA	THIR	CODES	STATION
318043	HT		5248 N	03542 W	D	184	25	04	21	117	1968	C20 028	3292	15	33		2	X2	0 3	0028										
		WATER		WIND		BARO-		AIR TEMP. °C		SPECIFIC VOLUME		SOUND		O ₂ (ml/l)		PO ₄ -P		TOTAL-P		NO ₃ -N		NO ₃ -M		SiO ₄ -Si		pH				
		COLOR	TEMP.	DIR.	SPEED	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND		
		CODE	°C	°	KNOTS	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.		
		DT	SD	33	S11	159	044	028	7	32																				
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S %	SIGMA-T	ANOMALY-210°	Σ Δ O	DYN. AL	Σ 10°	VELOCITY																			
114		STD	0000	0636	3482	2738	0007023	0000	14763																					
		OBS	0000	0636	34820	2738			14763																					
		STD	0010	0636	3482	2738	0007038	0007	14765																					
		OBS	0010	0636	34820	2738			14765																					
004		STD	0020	0636	3482	2738	0007052	0014	14766																					
		OBS	0020	0636	34820	2738			14766																					
		STD	0030	0636	3482	2738	0007067	0021	14768																					
		OBS	0030	0636	34820	2738			14768																					
		STD	0050	0636	3483	2739	0007060	0035	14771																					
		OBS	0050	0636	34825	2739			14771																					
		STD	0075	0636	3483	2739	0007097	0053	14775																					
		OBS	0075	0636	34825	2739			14775																					
		STD	0100	0635	3483	2739	0007121	0071	14779																					
		OBS	0100	0635	34825	2739			14779																					
		STD	0125	0628	3483	2740	0007032	0088	14780																					
		OBS	0125	0628	34830	2740			14780																					
		STD	0150	0625	3485	2742	0006881	0106	14784																					
		OBS	0150	0625	34850	2742			14784																					
		STD	0200	0617	3489	2746	0006554	0139	14789																					
		OBS	0200	0617	34890	2746			14789																					
		STD	0215	0613	34894	2747			14790																					
		OBS	0225	0622	34950	2751			14796																					
		STD	0250	0615	3497	2753	0006006	0171	14798																					
		OBS	0250	0615	34970	2753			14798																					
		STD	0270	0607	34992	2756			14798																					
		OBS	0300	0567	3496	2758	0005542	0200	14786																					
		STD	0300	0567	34960	2758			14786																					
		OBS	0315	0549	34934	2759			14781																					
		STD	0330	0549	34960	2761			14784																					
		OBS	0365	0487	34900	2763			14764																					
		STD	0400	0474	3490	2765	0004992	0252	14764																					
		OBS	0400	0474	34900	2765			14764																					
		STD	0420	0472	34900	2765			14767																					
		OBS	0460	0472	34932	2767			14774																					
		STD	0500	0459	3493	2769	0004704	0301	14775																					
		OBS	0500	0459	34930	2769			14775																					
		STD	0600	0435	3493	2771	0004529	0347	14781																					
		OBS	0600	0435	34930	2771			14781																					
		STD	0700	0412	3493	2774	0004361	0391	14788																					
		OBS	0700	0412	34930	2774			14788																					
		STD	0800	0393	3493	2776	0004235	0434	14797																					
		OBS	0800	0393	34930	2776			14797																					
		STD	0900	0379	3493	2777	0004162	0476	14808																					
		OBS	0900	0379	34930	2777			14808																					
		STD	1000	0367	3493	2779	0004109	0518	14819																					
		OBS	1000	0367	34930	2779			14819																					
		STD	1100	0359	3493	2779	0004098	0559	14833																					
		OBS	1100	0359	34930	2779			14833																					
		STD	1200	0355	3493	2780	0004132	0600	14848																					
		OBS	1200	0355	34930	2780			14848																					
		STD	1300	0350	3493	2781	0004123	0641	14863																					
		OBS	1300	0350	34934	2781			14863																					
		STD	1400	0345	3495	2782	0004045	0682	14877																					
		OBS	1400	0345	34947	2782			14877																					
		STD	1500	0340	3495	2783	0004039	0722	14892																					
		OBS	1500	0340	34950	2783			14892																					

TABLE X.—Continued

REFERENCE CITY NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	E 1/10	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	WDC STATION NUMBER
					10'	1"		CRUISE NO.	STATION NUMBER			DR	HGT	PER	SEA			
318043	HT	5241 N	03532 W		184	25 04 21	172	1968	C20 029	3638	15	34			2	X1	0 3	0029

TABLE X.—Continued

REFERENCE		SHIP	LATITUDE		LONGITUDE		STATION TIME		ORIGINATOR'S		DEPTH	WAVE		WEA-	CLOUD	MODE
CTW	ID.	CODE	N/S	E/W	MO	DAY	HR	MIN	CRUISE	STATION	TO	DIR	PER	THIR	TYPE	STATION
CODE	NO.				19				NO.	NUMBER	BOTTOM	PHASE	SEC	CODE	CODE	NUMBER
318043	HT		5245 N	03530 W	184	25	04	21	1968	C20	030	3383	15	01	3 2	0030
		WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
COLOR CODE	TRANS-MIT	DL	SPEED OF FORCE	SAR-METER (mbs)	DRY BULB	WET BULB	VS CODE									
DT	SD	33	S10	186	050	033	7	27								
REFERENCE TIME HR 1/10	CASIT NO.	CARD TYPE	DEPTH (m)	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DYN. M. ± 10	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - 0.1/1	TOTAL-P pg - 0.1/1	NO ₂ -N pg - 0.1/1	NO ₃ -N pg - 0.1/1	SiO ₂ -S pg - 0.1/1	pH
		STD	0000	0634	3480	2737	0007184	0000	14762							
233		OBS	0000	0634	34795	2737			14762							
		STD	0010	0634	3480	2737	0007199	0007	14763							
		OBS	0010	0634	34795	2737			14763							
		STD	0020	0634	3480	2737	0007214	0014	14765							
004		OBS	0020	0634	34795	2737			14765							
		STD	0030	0634	3480	2737	0007229	0022	14767							
		OBS	0030	0634	34795	2737			14767							
		STD	0050	0634	3480	2737	0007258	0036	14770							
		OBS	0050	0634	34795	2737			14770							
		STD	0075	0634	3480	2737	0007295	0054	14774							
		OBS	0075	0634	34795	2737			14774							
		STD	0100	0633	3483	2739	0007096	0072	14778							
		OBS	0100	0633	34825	2739			14778							
		OBS	0115	0631	34825	2740			14780							
		STD	0125	0628	3485	2742	0006890	0090	14781							
		OBS	0125	0628	34849	2742			14781							
		STD	0150	0628	3489	2745	0006659	0107	14785							
		OBS	0150	0628	34885	2745			14785							
		OBS	0190	0615	34945	2751			14787							
		STD	0200	0614	3495	2751	0006106	0139	14789							
		OBS	0200	0614	34945	2751			14789							
		STD	0250	0573	3495	2756	0005661	0168	14780							
		OBS	0250	0573	34945	2756			14780							
		OBS	0260	0568	34945	2757			14780							
		STD	0300	0502	3490	2761	0005240	0195	14759							
		OBS	0300	0502	34895	2761			14759							
		STD	0400	0460	3491	2767	0004792	0245	14758							
		OBS	0400	0460	34905	2767			14758							
		STD	0500	0431	3491	2770	0004566	0292	14763							
		OBS	0500	0431	34905	2770			14763							
		STD	0600	0421	3493	2773	0004404	0337	14775							
		OBS	0600	0421	34925	2773			14775							
		STD	0700	0402	3493	2775	0004283	0381	14784							
		OBS	0700	0402	34925	2775			14784							
		STD	0800	0392	3493	2776	0004261	0423	14797							
		OBS	0800	0392	34925	2776			14797							
		STD	0900	0379	3493	2777	0004199	0466	14808							
		OBS	0900	0379	34925	2777			14808							
		STD	1000	0367	3493	2778	0004145	0507	14819							
		OBS	1000	0367	34925	2778			14819							
		STD	1100	0364	3493	2779	0004195	0549	14835							
		OBS	1100	0364	34925	2779			14835							
		STD	1200	0353	3494	2780	0004071	0590	14847							
		OBS	1200	0353	34935	2780			14847							
		STD	1300	0347	3495	2782	0004005	0631	14861							
		OBS	1300	0347	34945	2782			14861							
		STD	1400	0342	3495	2782	0004023	0671	14876							
		OBS	1400	0342	34945	2782			14876							
		STD	1500	0339	3496	2783	0003989	0711	14892							
		OBS	1500	0339	34955	2783			14892							

TABLE X.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	MARSEN	STATION	YEAR	ORIGINATIONS		DEPTH	WAVE	WEA-	CLOUD	MODC		
CTRY	ID.	CODE	1-10	1-10	SQ	TIME		CRUISE	STATION	TO	OBS	THR	CODES	STATION		
CODE	NO.				1"	1"	NO	DATE	NUMBER	BOTTOM	DR.	HR	STA	NUMBER		
318043	HT	5248 N	03531 W	184	25	04	22	114	1968	C20 031	3199	15	29	2 2	X2 0 3	0031
		WATER	WIND	BARO-	AIR TEMP. °C		NO. OBS.		SPECIAL							
		CODE	TRANS	DR.	METER	DRY	WET	VIS	DEPTH	OBSERVATIONS						
		CODE	NO.		NO.	BULB	BULB	CODE								
		DT	SD	S09	149	056	028	7	30							
MESSNGR	CAST	CARD	DEPTH	T °C	S %	SIGMA-T	SPECIFIC VOLUME		SOUND	PO2-P		TOTAL-P	NO2-N	NO3-N	SiO4-Si	PH
TIME	NO.	TYPE	(m)				ANOMALY-210°	Δ D	VELOCITY	O2 ml/l	pg - 01/1	pg - 01/1	pg - 01/1	pg - 01/1	pg - 01/1	
HR	1/10							X 10 ³								
		STD	0000	0639	3480	2736	0007247	0000	14764							
114		OBS	0000	0639	34795	2736			14764							
		STD	0010	0639	3480	2736	0007262	0007	14765							
		OBS	0010	0639	34795	2736			14765							
		STD	0020	0639	3480	2736	0007277	0015	14767							
005		OBS	0020	0639	34795	2736			14767							
		STD	0030	0639	3480	2736	0007292	0022	14769							
		OBS	0030	0639	34795	2736			14769							
		STD	0050	0639	3480	2736	0007322	0036	14772							
		OBS	0050	0639	34795	2736			14772							
		OBS	0060	0639	34795	2736			14774							
		STD	0075	0636	3483	2739	0007097	0054	14775							
		OBS	0075	0636	34825	2739			14775							
		STD	0100	0628	3483	2740	0006980	0072	14776							
		OBS	0100	0628	34832	2740			14776							
		STD	0125	0621	3491	2747	0006384	0089	14779							
		OBS	0125	0621	34905	2747			14779							
		STD	0150	0628	3493	2748	0006361	0105	14786							
		OBS	0150	0628	34925	2748			14786							
		STD	0200	0631	3496	2750	0006220	0136	14796							
		OBS	0200	0631	34959	2750			14796							
		STD	0230	0591	3496	2755	0005812	0166	14788							
		OBS	0230	0591	34955	2755			14788							
		STD	0300	0552	3495	2759	0005468	0194	14780							
		OBS	0300	0552	34945	2759			14780							
		OBS	0330	0517	34945	2763			14774							
		STD	0400	0482	3492	2765	0004958	0247	14768							
		OBS	0400	0482	34917	2765			14768							
		OBS	0450	0450	34900	2767			14762							
		STD	0500	0437	3491	2770	0004605	0294	14765							
		OBS	0500	0437	34909	2770			14765							
		STD	0600	0423	3492	2772	0004487	0340	14776							
		OBS	0600	0423	34917	2772			14776							
		STD	0700	0410	3493	2774	0004375	0384	14787							
		OBS	0700	0410	34925	2774			14787							
		OBS	0710	0410	34930	2774			14789							
		OBS	0720	0399	34910	2774			14786							
		OBS	0730	0400	34925	2775			14788							
		STD	0800	0390	3492	2775	0004297	0427	14796							
		OBS	0800	0390	34917	2775			14796							
		STD	0900	0373	3492	2777	0004188	0470	14805							
		OBS	0900	0373	34917	2777			14805							
		STD	1000	0367	3492	2778	0004205	0512	14819							
		OBS	1000	0367	34917	2778			14819							
		STD	1100	0356	3492	2779	0004158	0554	14831							
		OBS	1100	0356	34917	2779			14831							
		STD	1200	0352	3492	2779	0004192	0595	14846							
		OBS	1200	0352	34917	2779			14846							
		STD	1300	0350	3493	2780	0004189	0637	14862							
		OBS	1300	0350	34925	2780			14862							
		STD	1400	0346	3493	2781	0004183	0679	14878							
		OBS	1400	0346	34930	2781			14878							
		STD	1500	0343	3494	2781	0004187	0721	14893							
		OBS	1500	0343	34935	2781			14893							

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	STATION SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS		WIND DIRECTION CODE	CLOUD CODE	NO. OF STATION NUMBER	
CTD CODE	ID. NO.					CRUISE NO.	STATION NUMBER		DR.	HG.			PER	SEA				
318043	HT		5244 N	03536 W	184	25	04 22 177	1968	C20	032	3622	15	29		1	X2	0 3	0032
WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OF OBS. DEPTH		SPECIAL OBSERVATIONS								
COLOR CODE	TRANSP. (m)	DR.	SPEED OF FORCE	DRY BULB	WET BULB	VIS. CODE												
DT	SD	25	503	122	050	038	6	24										
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. AL. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	PH	
		STD	0000	0647	3482	2737	0007154	0000	14767									
	177	OBS	0000	0647	34821	2737			14767									
		STD	0010	0646	3482	2737	0007141	0007	14769									
		OBS	0010	0646	34823	2737			14769									
		STD	0020	0646	3483	2738	0007104	0014	14770									
	005	OBS	0020	0646	34830	2738			14770									
		STD	0030	0646	3483	2738	0007119	0021	14772									
		OBS	0030	0646	34830	2738			14772									
		STD	0050	0634	3484	2740	0006923	0035	14771									
		OBS	0050	0634	34840	2740			14771									
		STD	0075	0612	3488	2746	0006385	0052	14766									
		OBS	0075	0612	34880	2746			14766									
		STD	0100	0579	3484	2747	0006313	0068	14757									
		OBS	0100	0579	34840	2747			14757									
		STD	0125	0588	3486	2748	0006308	0084	14765									
		OBS	0125	0588	34860	2748			14765									
		STD	0150	0601	3489	2749	0006281	0099	14774									
		OBS	0150	0601	34890	2749			14774									
		STD	0200	0579	3496	2757	0005555	0129	14775									
		OBS	0200	0579	34960	2757			14775									
		STD	0250	0517	3491	2761	0005229	0156	14757									
		OBS	0250	0517	34912	2761			14757									
		STD	0300	0492	3491	2763	0005012	0182	14755									
		OBS	0300	0492	34910	2763			14755									
		STD	0400	0469	3493	2768	0004680	0230	14762									
		OBS	0400	0469	34934	2768			14762									
		STD	0500	0439	3494	2772	0004397	0275	14767									
		OBS	0500	0439	34940	2772			14767									
		STD	0600	0421	3494	2774	0004300	0319	14776									
		OBS	0600	0421	34939	2774			14776									
		STD	0700	0404	3494	2775	0004224	0362	14785									
		OBS	0700	0404	34936	2775			14785									
		STD	0800	0387	3493	2777	0004158	0403	14795									
		OBS	0800	0387	34931	2777			14795									
		STD	0900	0374	3492	2777	0004215	0445	14806									
		OBS	0900	0374	34915	2777			14806									
		STD	1000	0363	3492	2778	0004172	0487	14818									
		OBS	1000	0363	34915	2778			14818									
		STD	1100	0357	3492	2779	0004148	0529	14832									
		OBS	1100	0357	34920	2779			14832									
		STD	1200	0355	3492	2779	0004199	0571	14848									
		OBS	1200	0355	34921	2779			14848									
		STD	1300	0351	3493	2780	0004143	0612	14863									
		OBS	1300	0351	34933	2780			14863									
		STD	1400	0349	3494	2781	0004147	0654	14879									
		OBS	1400	0349	34940	2781			14879									
		STD	1500	0345	3494	2782	0004175	0695	14894									
		OBS	1500	0345	34940	2782			14894									

TABLE X.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	WIND SPEED SQUARED		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE OBSERVATIONS				WEA-	CLOUD	NODC	
CITY	ID.	CODE	1/10	1/10	10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	TO BOTTOM	OF SAMP.	DIR.	PER	SEA	THIR CODE	FR	AMT	STATION NUMBER	
318043	HT		5247 N	03527 W	184	25	04	23	000	1968	C20	033	3402	15	00	0	X		X2	0	3	0033
				WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
				COLOR CODE	TRANS. MTS	DIR.	SPEED OR FORCE	METER MMHG	DRY BULB	WET BULB	WET BULB											
				DT	SD	OS	SOT	090	044	039	6	27										
MESSAGE TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ ρ DYN. M. Σ 10'		SOUND VELOCITY		O ₂ M/L	PO ₂ -P pg - σ _t /1	TOTAL-P pg - σ _t /1	NO ₃ -N pg - σ _t /1	NO ₃ -N pg - σ _t /1	SiO ₄ -S pg - σ _t /1	pH	3 C		
		STD	0000	0646	3476	2732	0007596		0000		14766											
	000	OBS	0000	0646	34760	2732					14766											
		STD	0010	0646	3476	2732	0007612		0008		14768											
		OBS	0010	0646	34760	2732					14768											
		STD	0020	0644	3476	2733	0007571		0015		14769											
	004	OBS	0020	0644	34764	2733					14769											
		STD	0030	0639	3476	2734	0007523		0023		14768											
		OBS	0030	0639	34764	2734					14768											
		STD	0050	0639	3478	2735	0007433		0038		14772											
		OBS	0050	0639	34780	2735					14772											
		STD	0075	0635	3484	2740	0007010		0056		14775											
		OBS	0075	0635	34835	2740					14775											
		STD	0100	0631	3485	2741	0006921		0073		14778											
		OBS	0100	0631	34845	2741					14778											
		OBS	0112	0631	34845	2741					14780											
		STD	0125	0619	3484	2742	0006843		0090		14777											
		STD	0150	0594	3483	2745	0006641		0107		14771											
		OBS	0150	0594	34830	2745					14771											
		OBS	0160	0583	34850	2748					14768											
		OBS	0180	0583	34890	2751					14772											
		STD	0200	0578	3496	2757	0005543		0138		14774											
		OBS	0200	0578	34960	2757					14774											
		STD	0250	0563	3495	2758	0005500		0165		14776											
		OBS	0250	0563	34950	2758					14776											
		STD	0300	0527	3495	2762	0005127		0192		14770											
		OBS	0300	0527	34950	2762					14770											
		OBS	0350	0490	34925	2765					14763											
		STD	0400	0474	3493	2767	0004805		0242		14764											
		OBS	0400	0474	34925	2767					14764											
		STD	0500	0446	3494	2771	0004515		0288		14769											
		OBS	0500	0446	34935	2771					14769											
		STD	0600	0426	3494	2773	0004388		0333		14778											
		OBS	0600	0426	34935	2773					14778											
		STD	0700	0403	3493	2774	0004294		0376		14785											
		OBS	0700	0403	34925	2774					14785											
		STD	0800	0386	3494	2777	0004117		0418		14794											
		OBS	0800	0386	34935	2777					14794											
		STD	0900	0383	3495	2778	0004098		0459		14810											
		OBS	0900	0383	34945	2778					14810											
		STD	1000	0374	3495	2779	0004081		0500		14823											
		OBS	1000	0374	34945	2779					14823											
		STD	1100	0363	3495	2780	0004020		0541		14835											
		OBS	1100	0363	34947	2780					14835											
		STD	1200	0358	3496	2781	0003985		0581		14849											
		OBS	1200	0358	34955	2781					14849											
		STD	1300	0356	3496	2782	0004006		0621		14865											
		OBS	1300	0356	34960	2782					14865											
		STD	1400	0350	3496	2783	0004012		0661		14880											
		OBS	1400	0350	34960	2783					14880											
		STD	1500	0344	3496	2783	0004016		0701		14894											
		OBS	1500	0344	34960	2783					14894											

TABLE X.—Continued

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	P 2/10	WARDEN SQUARE	STATION TIME 10/10				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- TYPE CODE	CLOUD CODES		REMARKS STATION NUMBER		
						10'	1"	MO	DAT		HR/10	CRUISE NO.			STATION NUMBER	DR.	NG	HT		TH	AMT			
						WATER	WIND	BARO- METER	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH			SPECIAL OBSERVATIONS									
318043	HT	5245 N	03530 W	28	184	25	04	23	051	1968	C20	034	3603	15	00	0	X	X6	0	3		0034		
						DT	SD	07	514	051	044	044	6	35										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH M	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DTM, M. Σ 10'	SOUND VELOCITY	O ₂ M/L	PO ₂ -P pg - M/L	TOTAL-P pg - M/L	NO ₃ -N pg - M/L	NO ₃ -N pg - M/L	SiO ₄ -Si pg - M/L	pH			CCC				
051	STD		0000	0635	3480	2737	0007130		0000	14762														
	OBS		0000	0635	34804	2737				14762														
	STD		0010	0635	3480	2737	0007144		0007	14764														
	OBS		0010	0635	34804	2737				14764														
	STD		0020	0634	3481	2738	0007087		0014	14765														
	OBS		0020	0634	34812	2738				14765														
	STD		0030	0633	3481	2738	0007074		0021	14767														
	OBS		0030	0633	34814	2738				14767														
	STD		0050	0632	3482	2739	0007032		0035	14770														
	OBS		0050	0632	34822	2739				14770														
	STD		0075	0632	3482	2739	0007069		0053	14774														
	OBS		0075	0632	34822	2739				14774														
	STD		0100	0630	3483	2740	0007021		0071	14777														
	OBS		0100	0630	34830	2740				14777														
	STD		0125	0630	3484	2741	0006998		0088	14781														
	OBS		0125	0630	34838	2741				14781														
	OBS		0130	0630	34838	2741				14782														
	STD		0150	0615	3484	2743	0006837		0105	14779														
	OBS		0150	0615	34839	2743				14779														
	OBS		0165	0615	34878	2746				14782														
	OBS		0175	0603	34897	2749				14779														
	OBS		0180	0606	34898	2749				14781														
	OBS		0190	0589	34912	2752				14776														
	STD		0200	0588	3493	2753	0005913		0137	14778														
	OBS		0200	0588	34927	2753				14778														
	OBS		0205	0579	34929	2754				14775														
	OBS		0230	0572	34958	2758				14777														
	STD		0250	0541	3492	2759	0005434		0166	14767														
	OBS		0250	0541	34923	2759				14767														
	OBS		0280	0531	34929	2760				14768														
	STD		0300	0519	3493	2762	0005188		0192	14766														
	OBS		0300	0519	34929	2762				14766														
	OBS		0315	0515	34927	2762				14767														
	OBS		0350	0486	34930	2766				14761														
	OBS		0380	0488	34937	2766				14767														
	STD		0400	0479	3494	2767	0004774		0242	14767														
	OBS		0400	0479	34937	2767				14767														
	STD		0500	0454	3495	2771	0004534		0289	14773														
	OBS		0500	0454	34945	2771				14773														
	STD		0600	0430	3495	2773	0004360		0333	14779														
	OBS		0600	0430	34945	2773				14779														
	STD		0700	0406	3494	2775	0004233		0376	14786														
	OBS		0700	0406	34938	2775				14786														
	STD		0800	0389	3493	2777	0004159		0418	14795														
	OBS		0800	0389	34934	2777				14795														
	STD		0900	0381	3493	2777	0004171		0460	14809														
	OBS		0900	0381	34932	2777				14809														
	STD		1000	0368	3493	2778	0004128		0501	14820														
	OBS		1000	0368	34929	2778				14820														
	STD		1100	0360	3493	2779	0004117		0542	14833														
	OBS		1100	0360	34929	2779				14833														
	STD		1200	0355	3493	2780	0004110		0584	14848														
	OBS		1200	0355	34933	2780				14848														
	STD		1300	0351	3494	2781	0004077		0624	14863														
	OBS		1300	0351	34942	2781				14863														
	STD		1400	0346	3495	2782	0004058		0665	14878														
	OBS		1400	0346	34947	2782				14878														
	STD		1500	0344	3495	2782	0004097		0706	14894														
	OBS		1500	0344	34949	2782				14894														

TABLE X.—Continued

REFERENCE SHIP CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WIND CODE	CLOUD CODES		MODC STATION NUMBER
						CRUISE NO.	STATION NUMBER			DR	HGT	PER	SEA		TYP	AMT	
318043	HT	5240 N	035385W	184 25 04 23 125	1968	C20	035	3383	15	06				2	X6	03	0035
				WATER		WIND		BARO-		AIR TEMP °C		NO. OF DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE	TEMP MM	DIR.	SPEED OR FORCE	BARO- METER MMHG	DRY BULB	WET BULB	VIS CODE						
				DT	SD	07	525	959	067	061	25						
MESSAGE TIME HR 1/10	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D. D DYN. M. X 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - 01/1	TOTAL-P pg - 01/1	NO ₃ -N pg - 01/1	NO ₃ -N pg - 01/1	SiO ₄ -Si pg - 01/1	pH	C	
125	STD	0000	0634	3476	2734	0007423	0000	14761									
	OBS	0000	0634	34763	2734			14761									
005	STD	0010	0633	3476	2734	0007426	0007	14763									
	OBS	0010	0633	34763	2734			14763									
	STD	0020	0628	3477	2736	0007311	0015	14762									
	OBS	0020	0628	34772	2736			14762									
	STD	0030	0627	3478	2736	0007275	0022	14764									
	OBS	0030	0627	34777	2736			14764									
	STD	0050	0605	3476	2738	0007136	0036	14758									
	OBS	0050	0605	34763	2738			14758									
	STD	0075	0589	3476	2740	0006975	0054	14756									
	OBS	0075	0589	34763	2740			14756									
	OBS	0090	0587	34778	2741			14757									
	STD	0100	0590	3478	2741	0006880	0071	14760									
	OBS	0100	0590	34782	2741			14760									
	STD	0125	0606	3482	2742	0006845	0089	14771									
	OBS	0125	0606	34818	2742			14771									
	STD	0150	0625	3486	2743	0006785	0106	14784									
	OBS	0150	0625	34863	2743			14784									
	STD	0200	0603	3495	2753	0005907	0137	14784									
	OBS	0200	0603	34953	2753			14784									
	STD	0250	0568	3497	2759	0005391	0166	14779									
	OBS	0250	0568	34973	2759			14779									
	STD	0300	0507	3493	2763	0005053	0192	14761									
	OBS	0300	0507	34928	2763			14761									
	STD	0400	0472	3493	2767	0004737	0241	14764									
	OBS	0400	0472	34931	2767			14764									
	STD	0500	0435	3492	2771	0004478	0287	14765									
	OBS	0500	0435	34923	2771			14765									
	STD	0600	0421	3493	2773	0004345	0331	14776									
	OBS	0600	0421	34933	2773			14776									
	STD	0700	0397	3492	2775	0004240	0374	14782									
	OBS	0700	0397	34923	2775			14782									
	STD	0800	0380	3492	2777	0004137	0416	14791									
	OBS	0800	0380	34923	2777			14791									
	STD	0900	0379	3492	2777	0004214	0457	14808									
	OBS	0900	0379	34923	2777			14808									
	STD	1000	0369	3492	2778	0004184	0499	14820									
	OBS	1000	0369	34923	2778			14820									
	STD	1100	0361	3492	2779	0004174	0541	14834									
	OBS	1100	0361	34923	2779			14834									
	STD	1200	0356	3492	2779	0004196	0583	14848									
	OBS	1200	0356	34923	2779			14848									
	STD	1300	0353	3494	2780	0004145	0625	14864									
	OBS	1300	0353	34936	2780			14864									
	STD	1400	0347	3494	2781	0004151	0666	14878									
	OBS	1400	0347	34936	2781			14878									
	STD	1500	0342	3494	2782	0004115	0708	14893									
	OBS	1500	0342	34943	2782			14893									

TABLE X.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	WDC STATION NUMBER		
						10'	1'	MO DAY HR LT/10		CRUISE NO.	STATION NUMBER							
318043	HT		52435N	03527 W	184	25	04	25 233	1968	C20	036	3383	15 02	4 2	X2	0 3	0036	
						WATER		WIND		AIR TEMP °C		VELOCITY OR DEPTH		SPECIAL OBSERVATIONS				
						COLOR CODE	TRAN- SMI	DIR.	BARO- METER (mmHg)	DRY BULB	WET BULB	VS CODE	NO. OBS. DEPTH					
						DT	SD	36	S27	081	072	061	7	30				
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND SALINITY		Σ Δ D DTN. M. ± 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg. - ml/l	TOTAL-P pg. - ml/l	NO ₃ -N pg. - ml/l	NO ₃ -N pg. - ml/l	SiO ₄ -Si pg. - ml/l	pH
		STD	0000	0633	3469	2728		0007993	0000		14760							
	233	OBS	0000	0633	34685	2728					14760							
		STD	0010	0633	3469	2728		0008008	0008		14762							
		OBS	0010	0633	34685	2728					14762							
		STD	0020	0633	3469	2728		0008023	0016		14763							
	005	OBS	0020	0633	34685	2728					14763							
		STD	0030	0633	3469	2728		0008037	0024		14765							
		OBS	0030	0633	34685	2728					14765							
		STD	0050	0633	3469	2728		0008044	0040		14768							
		OBS	0050	0633	34688	2728					14768							
		STD	0075	0633	3469	2729		0008066	0060		14772							
		OBS	0075	0633	34690	2729					14772							
		STD	0100	0609	3479	2739		0007092	0079		14768							
		OBS	0100	0609	34785	2739					14768							
		OBS	0110	0609	34845	2744					14770							
		STD	0125	0613	3486	2744		0006656	0096		14775							
		OBS	0125	0613	34855	2744					14775							
		STD	0150	0613	3488	2746		0006543	0113		14779							
		OBS	0150	0613	34875	2746					14779							
		OBS	0175	0621	34905	2747					14787							
		OBS	0190	0609	34918	2750					14785							
		STD	0200	0613	3494	2751		0006168	0145		14788							
		OBS	0200	0613	34935	2751					14788							
		OBS	0225	0627	34965	2751					14798							
		STD	0250	0610	3499	2755		0005830	0175		14796							
		OBS	0250	0610	34985	2755					14796							
		OBS	0290	0603	35015	2758					14800							
		STD	0300	0590	3503	2761		0005348	0203		14796							
		OBS	0300	0590	35025	2761					14796							
		STD	0400	0492	3494	2765		0004942	0254		14772							
		OBS	0400	0492	34935	2765					14772							
		OBS	0420	0502	34975	2767					14780							
		STD	0500	0461	3497	2771		0004467	0301		14776							
		OBS	0500	0461	34965	2771					14776							
		STD	0600	0427	3496	2774		0004251	0345		14778							
		OBS	0600	0427	34955	2774					14778							
		STD	0700	0401	3495	2776		0004123	0387		14784							
		OBS	0700	0401	34945	2776					14784							
		STD	0800	0390	3495	2777		0004089	0428		14796							
		OBS	0800	0390	34945	2777					14796							
		STD	0900	0379	3494	2778		0004125	0469		14808							
		OBS	0900	0379	34935	2778					14808							
		STD	1000	0369	3494	2779		0004095	0510		14820							
		OBS	1000	0369	34935	2779					14820							
		STD	1100	0358	3493	2779		0004123	0551		14832							
		OBS	1100	0358	34925	2779					14832							
		STD	1200	0357	3494	2780		0004120	0592		14849							
		OBS	1200	0357	34935	2780					14849							
		STD	1300	0353	3495	2781		0004079	0633		14864							
		OBS	1300	0353	34945	2781					14864							
		STD	1400	0347	3495	2782		0004056	0674		14878							
		OBS	1400	0347	34949	2782					14878							
		STD	1500	0345	3496	2783		0004065	0714		14894							
		OBS	1500	0345	34955	2783					14894							

TABLE X.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	WASDEN		STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	HODC	
CITY	ID.	CODE	° 1/10	° 1/10	NO.	1'	MO	DAT	HR/10		CRUISE	STATION	BOTTOM	DEPTH	TYPE	DR.	HGT	PER	SEA	TYPE	NO.	STATION
318043	HT		5249 N	03524 W	184	25	04	26	113	1968	C20	037	3302	15	35	3	3		X2	0	3	0037
					WATER		WIND		BARO-		AIR TEMP. °C		VEL		SPECIAL							
					COLOR	TRANS.	DIR.	SPED	OR	NO.	DRY	WET	NO.	NO.	OBSERVATIONS							
					CODE	MM		OR	FORCE	METER	BULB	BULB	CODE	OBS.								
					DT	SD	33	S18		108	067	056	7	29								
MESSAGE	CARD	CARD	DEPTH	T °C	S ‰	SGMA-T	SPECIFIC VOLUME		Σ Δ D	SOUND												
TIME	NO.	TYPE	(M)				ANOMALY-20°		DYN. M.	VELOCITY	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SI O ₄ -S	pH					
HR 1/10									± 10'			pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l	pg - ml/l						
113		STD	0000	0644	3474	2731	0007750	0000	14765													
		OBS	0000	0644	34736	2731			14765													
		STD	0010	0644	3474	2731	0007765	0008	14767													
		OBS	0010	0644	34736	2731			14767													
006		STD	0020	0644	3474	2731	0007780	0016	14768													
		OBS	0020	0644	34736	2731			14768													
		STD	0030	0644	3474	2731	0007795	0023	14770													
		OBS	0030	0644	34736	2731			14770													
		STD	0050	0644	3474	2731	0007825	0039	14773													
		OBS	0050	0644	34736	2731			14773													
		OBS	0070	0644	34796	2736			14777													
		STD	0075	0632	3483	2739	0007039	0058	14774													
		OBS	0075	0632	34826	2739			14774													
		STD	0100	0628	3482	2740	0007070	0075	14776													
		OBS	0100	0628	34820	2740			14776													
		STD	0125	0627	3485	2742	0006900	0093	14780													
		OBS	0125	0627	34846	2742			14780													
		OBS	0145	0597	34848	2746			14771													
		STD	0150	0603	3487	2747	0006455	0109	14775													
		OBS	0150	0603	34870	2747			14775													
		OBS	0170	0607	34946	2752			14781													
		OBS	0190	0591	34946	2754			14778													
		STD	0200	0600	3497	2755	0005773	0140	14783													
		OBS	0200	0600	34966	2755			14783													
		STD	0250	0569	3494	2756	0005679	0169	14779													
		OBS	0250	0569	34936	2756			14779													
		STD	0300	0521	3494	2762	0005160	0196	14767													
		OBS	0300	0521	34936	2762			14767													
		STD	0400	0480	3493	2766	0004868	0246	14767													
		OBS	0400	0480	34926	2766			14767													
		STD	0500	0441	3492	2770	0004599	0293	14767													
		OBS	0500	0441	34916	2770			14767													
		STD	0600	0420	3492	2772	0004430	0338	14775													
		OBS	0600	0420	34920	2772			14775													
		OBS	0650	0404	34900	2772			14776													
		STD	0700	0394	3492	2775	0004258	0382	14781													
		OBS	0700	0394	34916	2775			14781													
		STD	0800	0381	3492	2776	0004200	0424	14792													
		OBS	0800	0381	34916	2776			14792													
		STD	0900	0371	3492	2777	0004173	0466	14804													
		OBS	0900	0371	34916	2777			14804													
		STD	1000	0367	3492	2777	0004212	0508	14819													
		OBS	1000	0367	34916	2777			14819													
		STD	1100	0358	3492	2778	0004189	0550	14832													
		OBS	1100	0358	34916	2778			14832													
		STD	1200	0356	3493	2780	0004145	0591	14848													
		OBS	1200	0356	34930	2780			14848													
		STD	1300	0352	3494	2781	0004133	0633	14863													
		OBS	1300	0352	34936	2781			14863													
		STD	1400	0347	3494	2781	0004151	0674	14878													
		OBS	1400	0347	34936	2781			14878													
		STD	1500	0345	3495	2782	0004131	0716	14894													
		OBS	1500	0345	34946	2782			14894													

TABLE X.—Continued

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH M	T °C	S %	SIGMA-T	INCRP VOLUME AND MALT-SIG	$\frac{\Delta D}{D}$ DTH. M. % 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -M pg - ml/l	NO ₃ -H pg - ml/l	SiO ₂ -S pg - ml/l	pH
172		STD	0000	0644	3473	2730	0007795	0000	14765							
		OBS	0000	0644	34730	2730			14765							
		STD	0010	0643	3473	2730	0007798	0008	14766							
005		OBS	0010	0643	34730	2730			14766							
		STD	0020	0643	3473	2731	0007805	0016	14768							
		OBS	0020	0643	34731	2731			14768							
		STD	0030	0643	3473	2731	0007812	0023	14769							
		OBS	0030	0643	34732	2731			14769							
		STD	0050	0642	3474	2732	0007748	0039	14772							
		OBS	0050	0642	34743	2732			14772							
		OBS	0055	0641	34743	2732			14773							
		OBS	0065	0624	34733	2733			14768							
		STD	0075	0605	3478	2739	0007045	0057	14762							
		OBS	0080	0601	34803	2742			14762							
		STD	0100	0618	3488	2746	0006474	0074	14773							
		OBS	0100	0618	34883	2746			14773							
		STD	0125	0622	3490	2746	0006471	0091	14779							
		OBS	0125	0622	34895	2746			14779							
		STD	0150	0620	3490	2747	0006416	0107	14782							
		OBS	0150	0620	34904	2747			14782							
		OBS	0175	0621	34915	2748			14787							
		OBS	0185	0616	34985	2754			14787							
		STD	0200	0624	3500	2754	0005825	0137	14793							
		OBS	0210	0625	35003	2754			14795							
		OBS	0230	0618	35002	2755			14796							
		OBS	0240	0602	34994	2757			14791							
		STD	0250	0601	3499	2757	0005648	0166	14792							
		OBS	0250	0601	34994	2757			14792							
		STD	0300	0579	3499	2759	0005499	0194	14792							
		OBS	0300	0579	34986	2759			14792							
		OBS	0370	0516	34909	2761			14776							
		OBS	0380	0485	34933	2766			14766							
		STD	0400	0488	3494	2766	0004858	0246	14770							
	OBS	0400	0488	34940	2766			14770								
	OBS	0415	0496	34953	2766			14776								
	OBS	0450	0470	34958	2770			14771								
	STD	0500	0435	3492	2770	0004530	0293	14765								
	OBS	0500	0435	34916	2770			14765								
	STD	0600	0422	3494	2774	0004289	0337	14776								
	OBS	0600	0422	34942	2774			14776								
	STD	0700	0408	3494	2775	0004241	0379	14787								
	OBS	0700	0408	34940	2775			14787								
	STD	0800	0393	3495	2777	0004124	0421	14797								
	OBS	0800	0393	34945	2777			14797								
	STD	0900	0374	3493	2778	0004082	0462	14806								
	OBS	0900	0374	34933	2778			14806								
	STD	1000	0363	3493	2779	0004039	0503	14818								
	OBS	1000	0363	34933	2779			14818								
	STD	1100	0357	3493	2780	0004052	0543	14832								
	OBS	1100	0357	34933	2780			14832								
	STD	1200	0353	3494	2781	0004027	0584	14847								
	OBS	1200	0353	34941	2781			14847								
	STD	1300	0351	3495	2781	0004055	0624	14863								
	OBS	1300	0351	34945	2781			14863								
	STD	1400	0349	3495	2782	0004058	0665	14879								
	OBS	1400	0349	34952	2782			14879								
	STD	1500	0345	3495	2783	0004087	0705	14894								
	OBS	1500	0345	34952	2783			14894								

TABLE X.—Continued

REFERENCE SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION TIME 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF FATHOMS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	WDC STATION NUMBER	
						CRUISE NO.	STATION NUMBER			DIR.	HGT.	SEA				
318043	HT	5247 N	03534 W	184 25 04 26 231	1968	C20	039	3584	15	29		2	X2	0 3	0039	
				WATER	WIND	BARO- METER (MMHG)	AIR TEMP. °C	VIS CODE	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. MT	DIR.	SPED OR FORCE	DRY BULB	WET BULB							
				DT	SD	31	518	135	050	033	7	28				
MISSION TIME 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Δ ρ DYN. 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH
231		STD	0000	0643	3472	2730	0007857	0000	14764							
		OBS	0000	0643	34720	2730			14764							
005		STD	0010	0643	3472	2730	0007872	0008	14766							
		OBS	0010	0643	34720	2730			14766							
		STD	0020	0643	3472	2730	0007887	0016	14768							
		OBS	0020	0643	34720	2730			14768							
		STD	0030	0643	3472	2730	0007902	0024	14769							
		OBS	0030	0643	34720	2730			14769							
		STD	0050	0643	3472	2730	0007932	0039	14773							
		OBS	0050	0643	34720	2730			14773							
		STD	0075	0643	3472	2730	0007969	0059	14777							
		OBS	0075	0643	34720	2730			14777							
		STD	0100	0612	3479	2739	0007093	0078	14769							
		OBS	0100	0612	34790	2739			14769							
		OBS	0110	0611	34820	2742			14771							
		STD	0125	0607	3483	2743	0006782	0096	14772							
		OBS	0125	0607	34828	2743			14772							
		OBS	0140	0604	34830	2743			14773							
		STD	0150	0613	3487	2745	0006580	0112	14779							
		OBS	0150	0613	34870	2745			14779							
		OBS	0160	0604	34850	2745			14777							
		STD	0200	0631	3494	2749	0006362	0145	14795							
	OBS	0200	0631	34940	2749			14795								
	OBS	0222	0582	34880	2750			14779								
	STD	0250	0607	3499	2756	0005754	0175	14795								
	OBS	0250	0607	34990	2756			14795								
	STD	0300	0551	3495	2760	0005419	0203	14780								
	OBS	0300	0551	34950	2760			14780								
	STD	0400	0495	3494	2765	0004941	0255	14773								
	OBS	0400	0495	34940	2765			14773								
	STD	0500	0449	3492	2769	0004662	0303	14770								
	OBS	0500	0449	34920	2769			14770								
	STD	0600	0422	3492	2772	0004453	0348	14776								
	OBS	0600	0422	34920	2772			14776								
	STD	0700	0405	3492	2774	0004355	0392	14785								
	OBS	0700	0405	34920	2774			14785								
	STD	0800	0390	3491	2775	0004319	0436	14796								
	OBS	0800	0390	34914	2775			14796								
	STD	0900	0377	3491	2776	0004272	0479	14807								
	OBS	0900	0377	34912	2776			14807								
	STD	1000	0368	3491	2777	0004239	0521	14820								
	OBS	1000	0368	34914	2777			14820								
	STD	1100	0366	3491	2777	0004300	0564	14836								
	OBS	1100	0366	34914	2777			14836								
	STD	1200	0357	3492	2779	0004230	0606	14849								
	OBS	1200	0357	34920	2779			14849								
	STD	1300	0355	3493	2780	0004221	0649	14865								
	OBS	1300	0355	34929	2780			14865								
	STD	1400	0351	3493	2780	0004245	0691	14880								
	OBS	1400	0351	34930	2780			14880								
	STD	1500	0347	3494	2781	0004200	0733	14895								
	OBS	1500	0347	34940	2781			14895								

TABLE X.—Continued

REFERENCE C/TW CODE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E W	MAGNETIC SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THES CODE	CLOUD CODE		MODC STATION NUMBER	
							CRUISE NO.	STATION NUMBER	10' 1'	MO		DAY	HR		1/10	DR	HGT	PER		SEA	1/10		AMT
318045		HT	52415N	03518 W	D	184	25	04	27	172	1968	C20 040		3292	15	33			7	X1	0 3		0040
				WATER		WIND		SARO- METER		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS										
				COLOR CODE	TRAN- SMI	DIR.	SPEED OR FORCE	DRY RULE	WET RULE	DRY CODE													
				DT	SD	33	524	195	078	050	7	26											
MESSING TIME HR. 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPRNC VOLUME ANOMALY-10 ³	Σ Δ D DTN. M. Σ (m)	SOUND VELOCITY	O ₂ (m/l)	PO ₂ -P pg - m/l	TOTAL-P pg - m/l	NO ₃ -N pg - m/l	NO ₃ -M pg - m/l	SiO ₂ -Si pg - m/l	pH							
		STD	0000	0642	3472	2730	0007830	0000	14764														
	172	OBS	0000	0642	34722	2730			14764														
		STD	0010	0642	3472	2730	0007845	0008	14766														
		OBS	0010	0642	34722	2730			14766														
		STD	0020	0642	3472	2730	0007860	0016	14767														
	005	OBS	0020	0642	34722	2730			14767														
		STD	0030	0643	3472	2730	0007895	0024	14769														
		OBS	0030	0643	34721	2730			14769														
		STD	0050	0640	3473	2731	0007804	0039	14772														
		OBS	0050	0640	34732	2731			14772														
		OBS	0060	0637	34732	2731			14772														
		STD	0075	0615	3476	2736	0007340	0058	14766														
		OBS	0075	0615	34757	2736			14766														
		OBS	0090	0605	34797	2741			14765														
		STD	0100	0610	3481	2741	0006889	0076	14769														
		OBS	0100	0610	34814	2741			14769														
		STD	0125	0608	3485	2744	0006668	0093	14773														
		OBS	0125	0608	34845	2744			14773														
		STD	0150	0612	3488	2746	0006516	0109	14779														
		OBS	0150	0612	34877	2746			14779														
		STD	0200	0628	3495	2750	0006271	0141	14794														
		OBS	0200	0628	34947	2750			14794														
		STD	0250	0621	3500	2754	0005882	0172	14800														
		OBS	0250	0621	34997	2754			14800														
		STD	0300	0574	3500	2760	0005354	0200	14790														
		OBS	0300	0574	34997	2760			14790														
		STD	0400	0480	3497	2769	0004563	0249	14767														
		OBS	0400	0480	34967	2769			14767														
		STD	0500	0436	3493	2771	0004452	0295	14765														
		OBS	0500	0436	34928	2771			14765														
		STD	0600	0417	3494	2774	0004284	0338	14774														
		OBS	0600	0417	34935	2774			14774														
		STD	0700	0399	3492	2774	0004300	0381	14783														
		OBS	0700	0399	34918	2774			14783														
		STD	0800	0383	3491	2775	0004268	0424	14793														
		OBS	0800	0383	34910	2775			14793														
		STD	0900	0375	3491	2776	0004301	0467	14806														
		OBS	0900	0375	34905	2776			14806														
		STD	1000	0366	3491	2777	0004281	0510	14819														
		OBS	1000	0366	34905	2777			14819														
		STD	1100	0363	3491	2778	0004279	0552	14834														
		OBS	1100	0363	34912	2778			14834														
		STD	1200	0357	3492	2779	0004252	0595	14849														
		OBS	1200	0357	34917	2779			14849														
		STD	1300	0355	3492	2779	0004265	0638	14865														
		OBS	1300	0355	34923	2779			14865														
		STD	1400	0352	3493	2780	0004257	0680	14880														
		OBS	1400	0352	34930	2780			14880														
		STD	1500	0349	3493	2780	0004299	0723	14896														
		OBS	1500	0349	34930	2780			14896														

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/18	LONGITUDE ° 1/18	MARSSEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODE	NO. STATION NUMBER					
					MO.	DAY		CRUISE NO.	STATION NUMBER										
318043	HT	5236 N	03527 W	184	25	04	27	1968	C20 041	2963	15	33		5	X1	0	3		0041
				WATER	WIND	BARO- METER	SPEED OF CURRENT	AB. TEMP. °C	VSL CODE	NO. OF SPECIAL OBSERVATIONS									
COLOR CODE	TRANS NO.	DB.	DRY BULB								WET BULB	WVL CODE	DEPTH						
DT	SD	34	513	230	056	033	7	30											
MESSINER NO. 1/18	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DTM, M. ± 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -M pg - ml/l	SiO ₄ -S pg - ml/l	pH	SEC		
	232	STD	0000	0647	3476	2732	0007594	0000	14767										
		OBS	0000	0647	34762	2732			14767										
		STD	0010	0647	3476	2732	0007609	0008	14768										
		OBS	0010	0647	34762	2732			14768										
	005	STD	0020	0647	3476	2732	0007624	0015	14770										
		OBS	0020	0647	34762	2732			14770										
		STD	0030	0647	3476	2732	0007639	0023	14771										
		OBS	0030	0647	34762	2732			14771										
		STD	0050	0647	3476	2732	0007669	0038	14775										
		OBS	0050	0647	34762	2732			14775										
		OBS	0065	0626	34768	2736			14769										
		STD	0075	0619	3481	2740	0007032	0057	14768										
		OBS	0075	0619	34805	2740			14768										
		OBS	0080	0615	34830	2742			14768										
		STD	0100	0616	3485	2744	0006673	0074	14772										
		OBS	0100	0616	34853	2744			14772										
		OBS	0115	0605	34825	2743			14769										
		STD	0125	0619	3488	2745	0006545	0090	14777										
		OBS	0125	0619	34880	2745			14777										
		STD	0150	0623	3491	2747	0006409	0106	14784										
		OBS	0150	0623	34910	2747			14784										
		OBS	0170	0603	34920	2751			14779										
		OBS	0190	0629															
		STD	0200	0623	3492	2748	0006400	0138	14792										
		OBS	0200	0623															
		OBS	0245	0643															
		STD	0250	0640	3492	2746	0006672	0171	14807										
		OBS	0250	0640															
		STD	0300	0549	3493	2758	0005573	0202	14779										
		OBS	0300	0549															
		STD	0400	0490	3493	2765	0004956	0254	14771										
		OBS	0400	0490															
		STD	0500	0443	3494	2771	0004481	0302	14768										
		OBS	0500	0443	34935	2771			14768										
		STD	0600	0426	3494	2773	0004336	0346	14778										
		OBS	0600	0426	34942	2773			14778										
		STD	0700	0410	3493	2774	0004323	0389	14788										
		OBS	0700	0410	34932	2774			14788										
		STD	0800	0386	3491	2775	0004273	0432	14794										
		OBS	0800	0386	34914	2775			14794										
		STD	0900	0374	3491	2776	0004245	0474	14805										
		OBS	0900	0374	34911	2776			14805										
		STD	1000	0369	3491	2777	0004280	0517	14820										
		OBS	1000	0369	34910	2777			14820										
		STD	1100	0358	3491	2778	0004211	0560	14832										
		OBS	1100	0358	34913	2778			14832										
		STD	1200	0354	3492	2779	0004209	0602	14847										
		OBS	1200	0354	34918	2779			14847										
		STD	1300	0353	3493	2780	0004189	0644	14864										
		OBS	1300	0353	34930	2780			14864										
		STD	1400	0350	3493	2781	0004210	0686	14879										
		OBS	1400	0350	34933	2781			14879										
		STD	1500	0346	3494	2781	0004224	0728	14895										
		OBS	1500	0346	34935	2781			14895										

TABLE X.—Continued

[illegible]

TABLE X.—Continued

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TABLE X.—Continued

[illegible]

TABLE X.—Continued

REFERENCE CITY NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E W	MARSSEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH 10 BOTTOM	MAX. DEPTH OF FATHOMS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10'	1"	MO	DAY	HELI/10		CRUISE NO.	STATION NUMBER			DR	HGT	PER	SEA		TYPE	AMT		
318043	HT	5243 N	03523 W		184	25	04	28	238	1968	C20 045		3658	15	35				2	X2	0 3	0045	
					WATER		WIND		BARO- METER INCHES	AIR TEMP. °C		VTL CODE	NO. OF DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS MM	DIR	SPEED OR FORCE		DRY BULB	WET BULB												
					DT	SD	22	509	254	072	056	7	30										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH M	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M. × 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						
		STD	0000	0656	3478	2733			0007559	0000	14770												
238		OBS	0000	0656	34782	2733					14770												
		STD	0010	0656	3478	2733			0007574	0008	14772												
		OBS	0010	0656	34782	2733					14772												
		STD	0020	0663	3478	2732			0007679	0015	14776												
005		OBS	0020	0663	34782	2732					14776												
		STD	0030	0659	3478	2732			0007643	0023	14776												
		OBS	0030	0659	34782	2732					14776												
		STD	0050	0655	3478	2733			0007623	0038	14778												
		OBS	0050	0655	34782	2733					14778												
		STD	0075	0650	3478	2734			0007596	0057	14780												
		OBS	0075	0650	34782	2734					14780												
		OBS	0090	0612	34812	2741					14768												
		STD	0100	0611	3482	2742			0006841	0075	14769												
		OBS	0100	0611	34822	2742					14769												
		STD	0125	0613	3486	2745			0006619	0092	14775												
		OBS	0125	0613	34860	2745					14775												
		STD	0150	0623	3490	2747			0006469	0108	14783												
		OBS	0150	0623	34902	2747					14783												
		STD	0200	0623	3494	2750			0006244	0140	14792												
		OBS	0200	0623	34942	2750					14792												
		OBS	0210	0613	34972	2753					14790												
		OBS	0220	0613	34972	2753					14792												
		STD	0250	0633	3506	2758			0005555	0170	14806												
		OBS	0250	0633	35062	2758					14806												
		OBS	0260	0633	35062	2758					14808												
		OBS	0270	0595	35022	2760					14794												
		STD	0300	0566	3500	2762			0005217	0197	14787												
		OBS	0300	0566	35002	2762					14787												
		OBS	0360	0535	34982	2764					14784												
		STD	0400	0512	3498	2767			0004832	0247	14781												
		OBS	0400	0512	34982	2767					14781												
		STD	0500	0466	3497	2771			0004474	0293	14778												
		OBS	0500	0466	34972	2771					14778												
		STD	0600	0430	3496	2775			0004233	0337	14780												
		OBS	0600	0430	34962	2775					14780												
		STD	0700	0405	3494	2776			0004191	0379	14786												
		OBS	0700	0405	34942	2776					14786												
		STD	0800	0390	3494	2777			0004111	0421	14796												
		OBS	0800	0390	34942	2777					14796												
		STD	0900	0375	3493	2778			0004101	0462	14806												
		OBS	0900	0375	34932	2778					14806												
		STD	1000	0366	3494	2779			0004060	0502	14819												
		OBS	1000	0366	34935	2779					14819												
		STD	1100	0359	3494	2780			0004046	0543	14833												
		OBS	1100	0359	34937	2780					14833												
		STD	1200	0358	3494	2780			0004080	0584	14849												
		OBS	1200	0358	34942	2780					14849												
		STD	1300	0356	3495	2781			0004079	0624	14865												
		OBS	1300	0356	34950	2781					14865												
		STD	1400	0352	3496	2782			0004037	0665	14881												
		OBS	1400	0352	34960	2782					14881												
		STD	1500	0347	3496	2783			0004039	0705	14895												
		OBS	1500	0347	34962	2783					14895												

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	WAVE DIRECTION °	WAVE PERIOD SEC	WAVE HEIGHT M	WEA- THER CODE	CLOUD CODE	WDC STATION NUMBER								
CRUISE NO.	NO.																	
318043	HT		5242 N	03529 W	184	25	04	29	052	1968	C20	046	3475	15	00	0	3	0046
WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
COLOR CODE	TRANS- MIT	DR.	SPD OR FORCE	BARO- METER (mm)	DRY BULB	WET BULB	VIS CODE											
DT	SD	29	507	228	072	067	6	35										
MESSAGE TIME MO. 1/18	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DTH. M. Σ 16°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	WDC STATION NUMBER	
052		STD	0000	0665	3474	2729	0007958	0000	14773									
		OBS	0000	0665	34744	2729			14773									
005		STD	0010	0652	3474	2730	0007837	0008	14770									
		OBS	0010	0652	34740	2730			14770									
		OBS	0015	0643	34733	2731			14767									
		STD	0020	0642	3473	2731	0007777	0016	14767									
		OBS	0020	0642	34733	2731			14767									
		STD	0030	0642	3473	2731	0007792	0023	14769									
		OBS	0030	0642	34733	2731			14769									
		STD	0050	0644	3474	2731	0007773	0039	14773									
		OBS	0050	0644	34743	2731			14773									
		OBS	0060	0645	34757	2732			14775									
		STD	0075	0633	3483	2739	0007052	0058	14774									
		OBS	0075	0633	34826	2739			14774									
		OBS	0080	0628	34816	2739			14773									
		STD	0100	0616	3484	2742	0006792	0075	14772									
		OBS	0100	0616	34837	2742			14772									
		OBS	0115	0616	34839	2743			14774									
		STD	0125	0623	3489	2746	0006499	0092	14779									
		OBS	0125	0623	34893	2746			14779									
		STD	0150	0627	3491	2747	0006438	0108	14785									
		OBS	0150	0627	34913	2747			14785									
		OBS	0160	0630	34944	2749			14788									
		OBS	0175	0628	34965	2751			14790									
		STD	0200	0622	3497	2752	0005993	0139	14792									
		OBS	0200	0622	34974	2752			14792									
		OBS	0220	0617	34976	2753			14794									
		OBS	0245	0620	35044	2758			14800									
		STD	0250	0617	3507	2760	0005317	0167	14800									
		OBS	0250	0617	35066	2760			14800									
		STD	0300	0564	3498	2760	0005341	0194	14785									
		OBS	0300	0564	34982	2760			14785									
		OBS	0315	0562	34987	2761			14787									
		OBS	0335	0527	34936	2761			14776									
		OBS	0350	0527	34977	2765			14779									
		STD	0400	0497	3496	2767	0004845	0245	14774									
		OBS	0400	0497	34956	2767			14774									
		STD	0500	0459	3495	2770	0004592	0292	14775									
		OBS	0500	0459	34945	2770			14775									
		STD	0600	0431	3495	2773	0004371	0337	14780									
		OBS	0600	0431	34945	2773			14780									
		STD	0700	0401	3492	2774	0004294	0380	14784									
		OBS	0700	0401	34922	2774			14784									
		STD	0800	0388	3492	2776	0004259	0423	14795									
		OBS	0800	0388	34919	2776			14795									
		STD	0900	0376	3491	2776	0004253	0465	14806									
		OBS	0900	0376	34913	2776			14806									
		STD	1000	0368	3491	2777	0004246	0508	14820									
		OBS	1000	0368	34913	2777			14820									
		STD	1100	0362	3491	2778	0004259	0550	14834									
		OBS	1100	0362	34913	2778			14834									
		STD	1200	0359	3492	2779	0004233	0593	14849									
		OBS	1200	0359	34923	2779			14849									
		STD	1300	0354	3493	2780	0004194	0635	14864									
		OBS	1300	0354	34931	2780			14864									
		STD	1400	0350	3494	2781	0004144	0677	14880									
		OBS	1400	0350	34942	2781			14880									
		STD	1500	0344	3494	2782	0004133	0718	14894									
		OBS	1500	0344	34944	2782			14894									

TABLE X.—Continued

REFERENCE CIR CODE	SHIP CODE	LATITUDE 17B	LONGITUDE 17B	STATION SQUARE	STATION TIME GMT		YEAR	ORIGINATOR'S STATION NUMBER		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	WODC STATION NUMBER
					10°	1°		CRUISE NO.	OB			NG	PS	NA				
318043	HT	5246 N	03536 W	184	25	04 29 114	1968	C20	047	3658	15	34				1	X2	0047
					WATER		WIND		SARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
					COLOR CODE	TEMP. °C	DIR. °	SPEED OF FORCE	WET BULB	WET BULB	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS				
					DT	SD	36	S11	227	067	050	7	29					
MESSAGE TIME 17B	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D. DTH. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -S pg - ml/l	pH	S C	
		STD	0000	0649	3471	2728	0008030	0000	14767									
114		OBS	0000	0649	34707	2728			14767									
		STD	0010	0649	3471	2728	0008045	0008	14768									
		OBS	0010	0649	34707	2728			14768									
		STD	0020	0647	3471	2728	0008035	0016	14769									
005		OBS	0020	0647	34707	2728			14769									
		STD	0030	0639	3471	2729	0007949	0024	14768									
		OBS	0030	0639	34707	2729			14768									
		STD	0050	0637	3471	2729	0007953	0040	14770									
		OBS	0050	0637	34707	2729			14770									
		STD	0075	0637	3471	2729	0007990	0060	14774									
		OBS	0075	0637	34707	2729			14774									
		OBS	0080	0637	34707	2729			14775									
		STD	0100	0603	3480	2741	0006928	0079	14766									
		OBS	0100	0603	34797	2741			14766									
		STD	0125	0603	3484	2744	0006665	0096	14770									
		OBS	0125	0603	34837	2744			14770									
		STD	0150	0620	3487	2744	0006691	0112	14782									
		OBS	0150	0620	34867	2744			14782									
		STD	0200	0632	3491	2746	0006576	0145	14795									
		OBS	0200	0632	34913	2746			14795									
		OBS	0210	0621	34895	2746			14792									
		OBS	0225	0621	34944	2750			14796									
		STD	0250	0625	3498	2752	0006083	0177	14802									
		OBS	0250	0625	34977	2752			14802									
		OBS	0265	0646	35057	2756			14814									
		STD	0300	0562	3494	2757	0005651	0206	14784									
		OBS	0300	0562	34937	2757			14784									
		OBS	0350	0533	34907	2758			14780									
		STD	0400	0477	3491	2765	0004974	0260	14765									
		OBS	0400	0477	34907	2765			14765									
		STD	0500	0451	3493	2769	0004633	0308	14771									
		OBS	0500	0451	34927	2769			14771									
		STD	0600	0430	3493	2772	0004493	0353	14779									
		OBS	0600	0430	34927	2772			14779									
		STD	0700	0405	3493	2774	0004303	0397	14785									
		OBS	0700	0405	34927	2774			14785									
		STD	0800	0386	3493	2776	0004176	0440	14794									
		OBS	0800	0386	34927	2776			14794									
		STD	0900	0372	3492	2777	0004140	0481	14805									
		OBS	0900	0372	34922	2777			14805									
		STD	1000	0364	3493	2779	0004095	0522	14818									
		OBS	1000	0364	34927	2779			14818									
		STD	1100	0359	3493	2779	0004120	0563	14833									
		OBS	1100	0359	34927	2779			14833									
		STD	1200	0356	3493	2780	0004152	0605	14848									
		OBS	1200	0356	34929	2780			14848									
		STD	1300	0353	3494	2781	0004116	0646	14864									
		OBS	1300	0353	34940	2781			14864									
		STD	1400	0349	3495	2782	0004110	0687	14879									
		OBS	1400	0349	34945	2782			14879									
		STD	1500	0346	3495	2782	0004137	0728	14895									
		OBS	1500	0346	34947	2782			14895									

TABLE X.—Continued

REFERENCE SHIP CODE	ID. NO.	SHIP CODE	LATITUDE 1/16	LONGITUDE 1/16	HARDEN SQUARE		STATION TIME GMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WEA- THIR CODE	CLOUD CODES	NODC STATION NUMBER			
					1st	2nd	MO	DAY		HR	1/16						CRUISE NO.	STATION NUMBER	
318043	HT		5242 N	03532 W	184	25	04	29 171	1968	C20	048	3566	15	02	1	X1	03	0048	
					WATER		WIND		BARO- METER		AIR TEMP. °C		NO. ORL DIFFUS		SPECIAL OBSERVATIONS				
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	WET CODE								
					DT	SD	OS	S06	220	067	050	7	30						
MESSAGE Trans HR 1/16	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DTN. M. Σ 10 ³	SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH	S C.C.
		STD	0000	0656	3469	2726		0008246	0000	14769									
171		OBS	0000	0656	34690	2726				14769									
		STD	0010	0656	3469	2726		0008261	0008	14771									
		OBS	0010	0656	34690	2726				14771									
		STD	0020	0644	3467	2726		0008273	0017	14767									
005		OBS	0020	0644	34670	2726				14767									
		STD	0030	0630	3468	2728		0008037	0025	14764									
		OBS	0030	0630	34680	2728				14764									
		STD	0050	0630	3468	2728		0008066	0041	14767									
		OBS	0050	0630	34680	2728				14767									
		OBS	0060	0635	34710	2730				14771									
		STD	0075	0635	3471	2730		0007942	0061	14773									
		OBS	0075	0635	34710	2730				14773									
		OBS	0090	0635	34710	2730				14776									
		STD	0100	0609	3477	2738		0007212	0080	14768									
		OBS	0100	0609	34769	2738				14768									
		STD	0125	0606	3483	2743		0006755	0097	14772									
		OBS	0125	0606	34830	2743				14772									
		STD	0150	0623	3488	2745		0006632	0114	14783									
		OBS	0150	0623	34880	2745				14783									
		STD	0200	0625	3490	2746		0006582	0147	14792									
		OBS	0200	0625	34900	2746				14792									
		OBS	0225	0630	34950	2750				14799									
		STD	0250	0620	3495	2751		0006219	0179	14799									
		OBS	0250	0620	34950	2751				14799									
		STD	0300	0569	3495	2757		0005641	0209	14787									
		OBS	0300	0569	34950	2757				14787									
		OBS	0350	0542	34950	2761				14784									
		OBS	0375	0512	34930	2763				14776									
		OBS	0380	0492	34910	2763				14768									
		STD	0400	0482	3491	2764		0005025	0262	14767									
		OBS	0400	0482	34908	2764				14767									
		STD	0500	0456	3492	2769		0004721	0311	14773									
		OBS	0500	0456	34923	2769				14773									
		STD	0600	0430	3493	2772		0004471	0357	14779									
		OBS	0600	0430	34930	2772				14779									
		STD	0700	0407	3493	2774		0004318	0401	14786									
		OBS	0700	0407	34928	2774				14786									
		STD	0800	0387	3492	2776		0004240	0443	14794									
		OBS	0800	0387	34920	2776				14794									
		STD	0900	0370	3491	2777		0004205	0486	14804									
		OBS	0900	0370	34910	2777				14804									
		STD	1000	0364	3491	2777		0004221	0528	14818									
		OBS	1000	0364	34910	2777				14818									
		STD	1100	0358	3492	2779		0004160	0570	14832									
		OBS	1100	0358	34920	2779				14832									
		STD	1200	0355	3493	2780		0004125	0611	14848									
		OBS	1200	0355	34931	2780				14848									
		STD	1300	0353	3493	2780		0004175	0653	14864									
		OBS	1300	0353	34932	2780				14864									
		STD	1400	0349	3493	2781		0004191	0694	14879									
		OBS	1400	0349	34934	2781				14879									
		STD	1500	0346	3494	2782		0004181	0736	14895									
		OBS	1500	0346	34941	2782				14895									

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	W. KIDEN SQUARE	STATION TIME (GMT)			ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODE	HODC STATION NUMBER
					10'	1'	MO. DATE	CRUISE NO.	STATION NUMBER			DR.	NG	SEA			
318043	HT	5246 N	035389W	184	25	04	29 238	1968	C20 049	3200	15	06		1	X2	0 3	0049
WATER																	
COLOR		TDS		SAL		SPEED		BARO-		AIR TEMP. °C		NO.		SPECIAL			
CODE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE	SCALE
DT	SD	06	S10	227	067	039	7	28									
REFERENCE TIME 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DTH. M. S 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -Si pg - ml/l	pH	SC
234		STD	0000	0664	3471	2726	0008176	0000	14773								
		OBS	0000	0664	34713	2726			14773								
		STD	0010	0664	3471	2726	0008192	0008	14774								
004		OBS	0010	0664	34713	2726			14774								
		STD	0020	0664	3471	2726	0008229	0016	14776								
		OBS	0020	0664	34710	2726			14776								
		STD	0030	0644	3470	2728	0008079	0025	14769								
		OBS	0030	0644	34698	2728			14769								
		STD	0050	0640	3471	2729	0007983	0041	14771								
		OBS	0050	0640	34708	2729			14771								
		STD	0075	0639	3474	2732	0007747	0060	14775								
		OBS	0075	0639	34743	2732			14775								
		STD	0100	0609	3483	2743	0006734	0078	14769								
		OBS	0100	0609	34833	2743			14769								
		STD	0110	0604	34843	2744			14768								
		OBS	0110	0604	34843	2744			14768								
		STD	0125	0605	3484	2744	0006648	0095	14771								
		OBS	0135	0606	34843	2744			14773								
		STD	0150	0613	3486	2745	0006632	0112	14779								
		OBS	0150	0613	34863	2745			14779								
		STD	0200	0632	3497	2751	0006129	0144	14796								
		OBS	0200	0632	34973	2751			14796								
		STD	0210	0616	34953	2752			14791								
		OBS	0225	0630	35013	2754			14800								
		STD	0250	0609	3500	2756	0005705	0173	14796								
		OBS	0250	0609	3599P	2834P											
		STD	0300	0567	3497	2759	0005445	0201	14787								
		OBS	0300	0567	34973	2759			14787								
		STD	0365	0507	34928	2763			14772								
		OBS	0400	0498	3493	2765	0005029	0253	14774								
		STD	0400	0498	34933	2765			14774								
		OBS	0500	0463	3496	2771	0004542	0301	14777								
		STD	0500	0463	34958	2771			14777								
		OBS	0600	0420	3493	2773	0004333	0346	14775								
		STD	0600	0420	34933	2773			14775								
		OBS	0700	0403	3493	2775	0004235	0389	14785								
		STD	0700	0403	34933	2775			14785								
		OBS	0800	0388	3493	2776	0004207	0431	14795								
		STD	0800	0388	34926	2776			14795								
		OBS	0900	0377	3493	2777	0004154	0473	14807								
		STD	0900	0377	34928	2777			14807								
		OBS	1000	0367	3493	2778	0004123	0514	14819								
		STD	1000	0367	34928	2778			14819								
		OBS	1100	0358	3493	2779	0004101	0555	14832								
		STD	1100	0358	34928	2779			14832								
		OBS	1200	0355	3493	2780	0004147	0596	14848								
		STD	1200	0355	34928	2780			14848								
		OBS	1300	0353	3494	2781	0004131	0638	14864								
		STD	1300	0353	34938	2781			14864								
		OBS	1400	0349	3495	2782	0004095	0679	14879								
		STD	1400	0349	34947	2782			14879								
		OBS	1500	0347	3495	2782	0004105	0720	14895								
		STD	1500	0347	34953	2782			14895								

TABLE X.—Continued

REFERENCE CIR CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARESDEN SQUARE 10° 1'	STATION TIME (GMT)			YEAR	OBSERVATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER		
						MO	DAY	HR/10		CRUISE NO.	STATION NUMBER			DR	HGT	SEA		TYPE	AMT			
318043	HT		5251 N	03519 W	D	18	25	04 30	051	1968	C20 050	2631	15	06			2	X2	0 3	0050		
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS- MIS	DIR.	SPIO OF FORCE	DRY BULB	WET BULB	WIL CODE										
						DT	SD	OS	SOT	213	061	028	6				28					
MESSAGE TIME HR. 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. Σ 10 ³	SOUND VELOCITY	O ₂ (mU)	PO ₂ -P pg - mU	TOTAL-S pg - mU	NO ₃ -N pg - mU	NO ₃ -N pg - mU	SiO ₂ -Si pg - mU	pH	Σ C C					
		STD	0000	0676	3477	2729	0007943	0000	14778													
	051	OBS	0000	0676	34765	2729			14778													
		STD	0010	0676	3477	2729	0007958	0008	14780													
		OBS	0010	0676	34765	2729			14780													
		STD	0020	0676	3477	2729	0007974	0016	14781													
	004	OBS	0020	0676	34765	2729			14781													
		STD	0030	0675	3477	2729	0007977	0024	14783													
		OBS	0030	0675	34765	2729			14783													
		OBS	0032	0674	34763	2729			14782													
		OBS	0040	0658	34760	2731			14777													
		STD	0050	0659	3476	2731	0007838	0040	14779													
		OBS	0050	0659	34760	2731			14779													
		STD	0075	0654	3479	2734	0007588	0059	14782													
		OBS	0075	0654	34790	2734			14782													
		STD	0100	0642	3484	2739	0007099	0077	14782													
		OBS	0100	0642	34840	2739			14782													
		STD	0125	0635	3486	2742	0006883	0095	14784													
		OBS	0125	0635	34862	2742			14784													
		STD	0150	0631	3489	2745	0006660	0112	14786													
		OBS	0150	0631	34890	2745			14786													
		OBS	0175	0630	34940	2749			14791													
		STD	0200	0608	3495	2752	0005993	0143	14786													
		OBS	0200	0608	34950	2752			14786													
		STD	0250	0584	3497	2757	0005612	0172	14785													
		OBS	0250	0584	34970	2757			14785													
		STD	0300	0538	3495	2761	0005260	0200	14774													
		OBS	0300	0538	34950	2761			14774													
		OBS	0350	0513	34953	2764			14773													
		STD	0400	0492	3494	2766	0004905	0250	14772													
		OBS	0400	0492	34940	2766			14772													
		STD	0500	0453	3495	2771	0004485	0297	14773													
		OBS	0500	0453	34950	2771			14773													
		STD	0600	0429	3495	2774	0004289	0341	14779													
		OBS	0600	0429	34953	2774			14779													
		STD	0700	0400	3495	2776	0004111	0383	14784													
		OBS	0700	0400	34945	2776			14784													
		STD	0800	0392	3494	2777	0004149	0425	14797													
		OBS	0800	0392	34940	2777			14797													
		STD	0900	0379	3494	2778	0004125	0466	14808													
		OBS	0900	0379	34935	2778			14808													
		STD	1000	0370	3494	2775	0004048	0507	14821													
		OBS	1000	0370	34943	2779			14821													
		STD	1100	0361	3495	2780	0004011	0547	14834													
		OBS	1100	0361	34945	2780			14834													
		STD	1200	0355	3496	2782	0003948	0587	14848													
		OBS	1200	0355	34955	2782			14848													
		STD	1300	0352	3496	2782	0003956	0626	14864													
		OBS	1300	0352	34960	2782			14864													
		STD	1400	0351	3497	2783	0003988	0666	14880													
		OBS	1400	0351	34965	2783			14880													
		STD	1500	0347	3497	2783	0004017	0706	14895													
		OBS	1500	0347	34965	2783			14895													

TABLE X.—Continued

REFERENCE CTRY CODE	SHIP ID. CODE	LATITUDE 1/10	LONGITUDE 7/10	WASDEN SQUARE 1/10	STATION TIME GMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE	MOON CODE	NOOD STATION NUMBER		
					1P	1'	MO	DAY		HR	1/10			CAUSE NO.	STATION NUMBER	DR	PER					SA	
					WATER COLOR CODE	TRANS. MT	DIR.	WIND OR FORCE		SABO- METER (mm)	DRY BULB			WET BULB	VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS						
					DT	SD	OS	S04	227	061	033	7	30										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		S.D.D. DTR. M. x 10 ³	SOUND VELOCITY		O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₂ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH					
	114	STD	0000	0672	3478	2730	0007794		0000	14777													
		OBS	0000	0672	34778	2730				14777													
		STD	0010	0672	3478	2730	0007810		0008	14778													
		OBS	0010	0672	34778	2730				14778													
	005	STD	0020	0672	3478	2730	0007825		0016	14780													
		OBS	0020	0672	34778	2730				14780													
		STD	0030	0672	3478	2730	0007841		0023	14782													
		OBS	0030	0672	34778	2730				14782													
		OBS	0040	0656	34778	2732				14777													
		STD	0050	0656	3478	2732	0007665		0039	14778													
		OBS	0050	0656	34778	2732				14778													
		STD	0075	0656	3478	2732	0007703		0058	14783													
		OBS	0075	0656	34778	2732				14783													
		OBS	0085	0655	34778	2733				14784													
		STD	0100	0643	3482	2737	0007298		0077	14782													
		OBS	0100	0643	34815	2737				14782													
		STD	0125	0631	3484	2740	0007033		0095	14782													
		OBS	0125	0631	34835	2740				14782													
		STD	0150	0624	3486	2743	0006831		0112	14783													
		OBS	0150	0624	34855	2743				14783													
		STD	0200	0623	3494	2749	0006296		0145	14792													
		OBS	0200	0623	34935	2749				14792													
		STD	0250	0603	3497	2754	0005889		0175	14793													
		OBS	0250	0603	34965	2754				14793													
		STD	0300	0552	3496	2760	0005394		0204	14780													
		OBS	0300	0552	34955	2760				14780													
		OBS	0335	0510	34925	2763				14768													
		OBS	0350	0510	34945	2764				14771													
		OBS	0360	0502	34945	2765				14770													
		STD	0400	0480	3495	2768	0004727		0254	14767													
		OBS	0400	0480	34945	2768				14767													
		STD	0500	0445	3495	2772	0004429		0300	14769													
		OBS	0500	0445	34945	2772				14769													
		STD	0600	0430	3495	2773	0004360		0344	14779													
		OBS	0600	0430	34945	2773				14779													
		STD	0700	0411	3495	2775	0004239		0387	14788													
		OBS	0700	0411	34945	2775				14788													
		STD	0800	0393	3494	2776	0004198		0429	14797													
		OBS	0800	0393	34935	2776				14797													
		STD	0900	0382	3494	2777	0004161		0471	14809													
		OBS	0900	0382	34935	2777				14809													
		OBS	0950	0377	34941	2778				14815													
		STD	1000	0362	3494	2780	0003968		0512	14817													
		OBS	1000	0362	34941	2780				14817													
		STD	1100	0359	3494	2780	0004017		0552	14833													
		OBS	1100	0359	34941	2780				14833													
		STD	1200	0357	3495	2781	0004017		0592	14849													
		OBS	1200	0357	34949	2781				14849													
		STD	1300	0353	3495	2782	0004028		0632	14864													
		OBS	1300	0353	34952	2782				14864													
		STD	1400	0349	3496	2782	0004029		0672	14879													
		OBS	1400	0349	34956	2782				14879													
		STD	1500	0346	3496	2783	0004056		0713	14895													
		OBS	1500	0346	34958	2783				14895													

TABLE X.—Continued

REFERENCE CITE CODE	ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WIND SPEED KNOTS	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
						10'	1"	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DR.	HT.	PER.		TYPE		HEIGHT
318043		HT	5244 N	03534 W		184	25	04 30 172	1968	C20	052	3658	15	02	3	4	X2	0 3	0052	
						WATER		WIND		BARO-		AIR TEMP °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. MM	DIR.	SPED. OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB					
						DT	SD	04	S15	196	067	044	7	35						

MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta$ DYN. M. S 10°	SO NO VELOCITY	O ₂ (M/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 -S µg - ml/l	pH	S DATE
	072	STD	0000	0652	3474	2730	0007859	0000	14768								
		OBS	0000	0652	34735	2730			14768								
		STD	0010	0652	3474	2730	0007874	0008	14770								
		OBS	0010	0652	34735	2730			14770								
	006	OBS	0015	0651	34735	2730			14770								
		STD	0020	0646	3474	2730	0007813	0016	14769								
		OBS	0020	0646	34735	2730			14769								
		STD	0030	0646	3474	2730	0007828	0024	14771								
		OBS	0030	0646	34735	2730			14771								
		OBS	0040	0646	34735	2730			14772								
		STD	0050	0640	3474	2731	0007774	0039	14772								
		OBS	0050	0640	34736	2731			14772								
		OBS	0060	0637	34760	2734			14772								
		OBS	0065	0650	34800	2735			14779								
		STD	0075	0634	3478	2736	0007407	0058	14774								
		OBS	0075	0634	34780	2736			14774								
		STD	0100	0631	3483	2740	0007011	0076	14777								
		OBS	0100	0631	34833	2740			14777								
		STD	0125	0612	3481	2740	0007016	0094	14774								
		OBS	0125	0612	34805	2740			14774								
		STD	0150	0611	3486	2745	0006637	0111	14778								
		OBS	0150	0611	34859	2745			14778								
		OBS	0175	0606	34870	2746			14780								
		OBS	0180	0602	34900	2749			14780								
		STD	0200	0620	3496	2752	0006049	0142	14791								
		OBS	0200	0620	34963	2752			14791								
		OBS	0245	0647	35060	2756			14811								
		STD	0250	0645	3506	2756	0005764	0172	14811								
		OBS	0250	0645	35055	2756			14811								
		STD	0300	0567	3498	2760	0005431	0200	14787								
		OBS	0300	0567	34975	2760			14787								
		OBS	0330	0533	34970	2763			14778								
		OBS	0355	0534	34979	2764			14782								
		STD	0400	0487	3493	2766	0004906	0252	14770								
		OBS	0400	0487	34932	2766			14770								
		OBS	0415	0480	34920	2766			14769								
		OBS	0430	0489	34935	2766			14776								
		STD	0500	0452	3495	2771	0004473	0299	14772								
		OBS	0500	0452	34950	2771			14772								
		STD	0600	0428	3494	2773	0004381	0343	14779								
		OBS	0600	0428	34939	2773			14779								
		STD	0700	0403	3491	2773	0004391	0387	14784								
		OBS	0700	0403	34912	2773			14784								
		STD	0800	0383	3492	2776	0004193	0430	14793								
		OBS	0800	0383	34920	2776			14793								
		STD	0900	0371	3491	2777	0004187	0472	14804								
		OBS	0900	0371	34914	2777			14804								
		STD	1000	0364	3492	2778	0004184	0513	14818								
		OBS	1000	0364	34915	2778			14818								
		STD	1100	0355	3492	2779	0004161	0555	14831								
		OBS	1100	0355	34915	2779			14831								
		STD	1200	0353	3492	2779	0004167	0597	14847								
		OBS	1200	0353	34922	2779			14847								
		STD	1300	0350	3493	2780	0004145	0638	14863								
		OBS	1300	0350	34931	2780			14863								
		STD	1400	0345	3493	2781	0004155	0680	14877								
		OBS	1400	0345	34932	2781			14877								
		STD	1500	0345	3494	2782	0004175	0721	14894								
		OBS	1500	0345	34940	2782			14894								

TABLE X.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WAVE SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS	WAVE THER CODE	CLOUD CODES	HODC STATION NUMBER
					10	11	MO	DAY		CRUISE NO.	STATION NUMBER					
318043	HT	5242 N	03535 W	104	25	04	30	238	1968	C20	053	3658	15	04	3	0053
				WATER	WIND	BARO-	AIR TEMP. °C		WET BULB	WET BULB	VLE CODE	NO. OBS DEPTH	SPECIAL OBSERVATIONS			
				COLOR CODE	WIND DIR	WIND SPEED OR FORCE	DRY BULB	WET BULB								
				DT	SD	04	510	207	061	044	7	33				
MESSAGE TIME MO 1/10	CALC # NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPCIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. AL. Σ 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH
		STD	0000	0649	3472	2729	0007940	0000	14767							
233		OBS	0000	0649	34719	2729			14767							
		STD	0010	0649	3472	2729	0007955	0008	14768							
		OBS	0010	0649	34719	2729			14768							
		STD	0020	0649	3472	2729	0007970	0016	14770							
005		OBS	0020	0649	34719	2729			14770							
		STD	0030	0649	3472	2729	0007986	0024	14772							
		OBS	0030	0649	34719	2729			14772							
		STD	0050	0644	3474	2731	0007825	0040	14773							
		OBS	0050	0644	34736	2731			14773							
		OBS	0060	0634	34720	2731			14771							
		STD	0075	0635	3472	2731	0007853	0059	14773							
		OBS	0075	0635	34722	2731			14773							
		OBS	0090	0636	34722	2731			14776							
		STD	0100	0636	3480	2737	0007306	0078	14779							
		OBS	0100	0636	34802	2737			14779							
		OBS	0110	0611	34819	2742			14771							
		STD	0125	0612	3485	2744	0006666	0096	14774							
		OBS	0125	0612	34852	2744			14774							
		STD	0150	0621	3488	2745	0006600	0112	14782							
		OBS	0150	0621	34881	2745			14782							
		STD	0200	0624	3490	2747	0006554	0145	14792							
		OBS	0200	0624	34902	2747			14792							
		OBS	0230	0628	34974	2752			14800							
		STD	0250	0613	3498	2754	0005935	0176	14797							
		OBS	0250	0613	34976	2754			14797							
		OBS	0270	0620	35012	2756			14803							
		STD	0300	0580	3498	2758	0005541	0205	14792							
		OBS	0300	0580	34982	2758			14792							
		OBS	0370	0514	34962	2765			14776							
		OBS	0380	0484	34915	2765			14765							
		STD	0400	0479	3492	2765	0004938	0257	14766							
		OBS	0400	0479	34915	2765			14766							
		OBS	0450	0452	34902	2767			14763							
		OBS	0465	0466	34942	2769			14772							
		STD	0500	0451	3494	2771	0004521	0305	14772							
		OBS	0500	0451	34942	2771			14772							
		STD	0600	0433	3494	2773	0004417	0349	14781							
		OBS	0600	0433	34942	2773			14781							
		STD	0700	0409	3493	2774	0004312	0393	14787							
		OBS	0700	0409	34932	2774			14787							
		STD	0800	0390	3493	2776	0004186	0436	14796							
		OBS	0800	0390	34932	2776			14796							
		STD	0900	0372	3493	2778	0004066	0477	14805							
		OBS	0900	0372	34932	2778			14805							
		STD	1000	0367	3492	2778	0004168	0518	14819							
		OBS	1000	0367	34922	2778			14819							
		STD	1100	0358	3492	2779	0004145	0560	14832							
		OBS	1100	0358	34922	2779			14832							
		STD	1200	0356	3493	2780	0004130	0601	14848							
		OBS	1200	0356	34932	2780			14848							
		STD	1300	0350	3494	2781	0004064	0642	14863							
		OBS	1300	0350	34942	2781			14863							
		STD	1400	0348	3494	2781	0004119	0683	14879							
		OBS	1400	0348	34942	2781			14879							
		STD	1500	0346	3494	2782	0004173	0724	14895							
		OBS	1500	0346	34942	2782			14895							

TABLE X.—Continued

REFERENCE CTP CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAZEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	HODC STATION NUMBER	
						MO	DAY	HR.1/10		CRUISE NO	STATION NUMBER			DR	HGT	PER				SEA
318043	HT		5247 N	03532 W	184	25	05	01	052	1968	C20	054	3292	15	04		3	X2	G 3	0054
																			S C C	
WATER		WIND		BARO- METER		AIR TEMP °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
COLOR CODE	TRAN- SMI- TY	DIR.	SPEED OR FORCE	WET BULB	DRY BULB	WET BULB	WET BULB	WET BULB	WET BULB											
DT	SD	04	515	196	056	039	7	28												
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SGMA-T	SPECIFIC VOLUME ANOMALY-20°	S.D.D. DTH. M. ± 10°	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₃ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₂ -S pg - ml/l	pH			S C C	
		STD	0000	0670	3478	2731	0007746	0000	14776											
	052	OBS	0000	0670	34781	2731			14776											
		STD	0010	0670	3478	2731	0007761	0008	14778											
		OBS	0010	0670	34781	2731			14778											
		STD	0020	0671	3478	2731	0007790	0016	14780											
	005	OBS	0020	0671	34781	2731			14780											
		STD	0030	0658	3478	2732	0007638	0023	14776											
		OBS	0030	0658	34781	2732			14776											
		OBS	0040	0655	34785	2733			14777											
		STD	0050	0655	3479	2733	0007600	0038	14778											
		OBS	0050	0655	34785	2733			14778											
		STD	0075	0634	3481	2738	0007213	0057	14774											
		OBS	0075	0634	34806	2738			14774											
		STD	0100	0633	3484	2740	0006984	0075	14778											
		OBS	0100	0633	34840	2740			14778											
		STD	0125	0632	3489	2744	0006638	0092	14783											
		OBS	0132	0632	34896	2745			14784											
		OBS	0140	0613	34900	2748			14778											
		STD	0150	0623	3489	2746	0006558	0108	14783											
		OBS	0150	0623	34890	2746			14783											
		OBS	0175	0633	34946	2749			14792											
		STD	0200	0637	3497	2750	0006246	0140	14798											
		OBS	0200	0637	34966	2750			14798											
		STD	0250	0609	3500	2756	0005735	0170	14796											
		OBS	0250	0609	34996	2756			14796											
		STD	0300	0564	3497	2759	0005453	0198	14785											
		OBS	0300	0564	34967	2759			14785											
		OBS	0310	0541	34967	2762			14778											
		STD	0400	0505	3498	2767	0004800	0249	14778											
		OBS	0400	0505	34975	2767			14778											
		STD	0500	0448	3494	2771	0004524	0296	14770											
		OBS	0500	0448	34937	2771			14770											
		STD	0600	0422	3495	2774	0004252	0340	14776											
		OBS	0600	0422	34947	2774			14776											
		STD	0700	0406	3494	2776	0004195	0382	14786											
		OBS	0700	0406	34943	2776			14786											
		STD	0800	0394	3494	2776	0004188	0424	14798											
		OBS	0800	0394	34938	2776			14798											
		STD	0900	0378	3493	2778	0004128	0466	14807											
		OBS	0900	0378	34933	2778			14807											
		STD	1000	0367	3493	2778	0004138	0507	14819											
		OBS	1000	0367	34926	2778			14819											
		STD	1100	0360	3493	2779	0004139	0548	14833											
		OBS	1100	0360	34926	2779			14833											
		STD	1200	0356	3493	2780	0004115	0590	14848											
		OBS	1200	0356	34934	2780			14848											
		STD	1300	0353	3494	2781	0004094	0631	14864											
		OBS	1300	0353	34943	2781			14864											
		STD	1400	0350	3495	2782	0004086	0672	14880											
		OBS	1400	0350	34950	2782			14880											
		STD	1500	0346	3496	2783	0004056	0712	14895											
		OBS	1500	0346	34958	2783			14895											

TABLE X.—Continued

REFERENCE CRUISE CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF TEMP'S	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	MODC STATION NUMBER		
				SQUARE			CRUISE NO.	STATION NUMBER								
				10'	1"										MO	DAY
318043	HT	5249 N	03528 W	184	25 05 01 110	1968	C20	055	3383	15	04		2	X2	0 3	0055
WATER		WIND		SARO- METER		AIR TEMP °C		NO. OBS DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANSP WT	DIR	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB									
DT	SD	04	S10	224	072	061	7	27								
MISSINGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P pg - ml/l	TOTAL-P pg - ml/l	NO ₂ -N pg - ml/l	NO ₃ -N pg - ml/l	SiO ₄ -Si pg - ml/l	pH
		STD	0000	0657	3479	2733	0007497	0000	14771							
113		OBS	0000	0657	34792	2733			14771							
		STD	0010	0657	3479	2733	0007512	0008	14773							
		OBS	0010	0657	34792	2733			14773							
		STD	0020	0657	3479	2733	0007528	0015	14774							
005		OBS	0020	0657	34792	2733			14774							
		STD	0030	0655	3475	2733	0007540	0023	14775							
		OBS	0030	0655	34789	2733			14775							
		OBS	0040	0655	34789	2733			14777							
		STD	0050	0653	3480	2735	0007433	0038	14778							
		OBS	0050	0653	34804	2735			14778							
		STD	0075	0644	3481	2737	0007281	0056	14778							
		OBS	0075	0644	34814	2737			14778							
		STD	0100	0633	3481	2738	0007178	0074	14778							
		OBS	0100	0633	34814	2738			14778							
		STD	0125	0628	3487	2743	0006741	0091	14781							
		OBS	0125	0628	34869	2743			14781							
		STD	0150	0621	3492	2748	0006339	0108	14783							
		OBS	0150	0621	34916	2748			14783							
		OBS	0175	0635	34954	2749			14793							
		STD	0200	0627	3497	2751	0006094	0139	14794							
		OBS	0200	0627	34969	2751			14794							
		OBS	0220	0630	34974	2751			14799							
		STD	0250	0593	3494	2753	0005956	0169	14788							
		OBS	0250	0593	34939	2753			14788							
		STD	0300	0560	3494	2758	0005612	0198	14783							
		OBS	0300	0560	34939	2758			14783							
		STD	0400	0499	3491	2763	0005182	0252	14775							
		OBS	0400	0499	34914	2763			14775							
		STD	0500	0456	3492	2768	0004751	0302	14773							
		OBS	0500	0456	34919	2768			14773							
		STD	0600	0421	3492	2772	0004449	0348	14775							
		OBS	0600	0421	34919	2772			14775							
		STD	0700	0400	3492	2774	0004334	0391	14783							
		OBS	0700	0400	34915	2774			14783							
		STD	0800	0388	3491	2775	0004296	0435	14795							
		OBS	0800	0388	34914	2775			14795							
		STD	0900	0381	3492	2776	0004267	0477	14809							
		OBS	0900	0381	34919	2776			14809							
		STD	1000	0373	3492	2777	0004246	0520	14822							
		OBS	1000	0373	34921	2777			14822							
		STD	1100	0363	3493	2779	0004175	0562	14834							
		OBS	1100	0363	34926	2779			14834							
		STD	1200	0358	3493	2779	0004184	0604	14849							
		OBS	1200	0358	34928	2779			14849							
		STD	1300	0355	3494	2781	0004111	0645	14865							
		OBS	1300	0355	34944	2781			14865							
		STD	1400	0351	3495	2782	0004120	0686	14880							
		OBS	1400	0351	34947	2782			14880							
		STD	1500	0347	3495	2782	0004120	0728	14895							
		OBS	1500	0347	34951	2782			14895							

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