

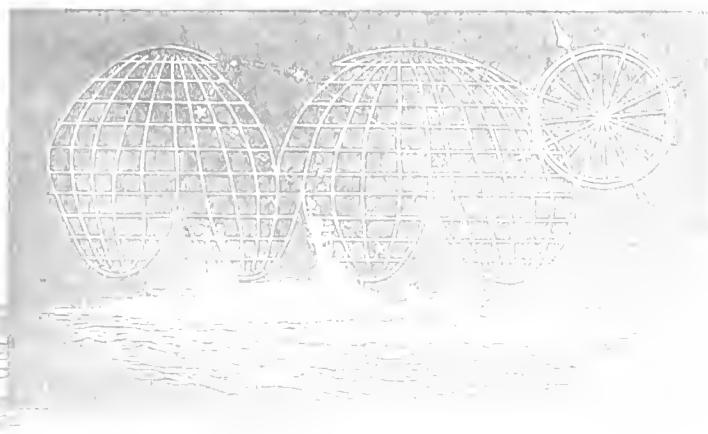
U.S. Coast Guard Oceanographic Report

UNITED STATES COAST GUARD  
OCEANOGRAPHIC  
REPORT No. 93

CG 375-23

Woods Hole Oceanographic Institution  
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OCEANOGRAPHIC OBSERVATIONS  
NORTH ATLANTIC OCEAN STATION DELTA  
44°N 41°W JULY 1966-AUGUST 1967

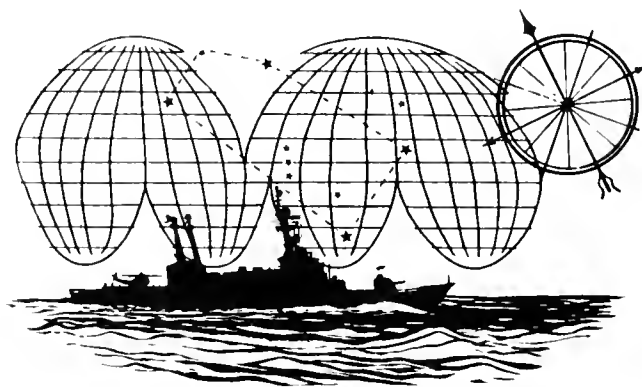


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# REPORT No. 23 <sup>CG 373-23</sup>

OCEANOGRAPHIC OBSERVATIONS  
NORTH ATLANTIC OCEAN STATION DELTA  
44°N 41°W JULY 1966-AUGUST 1967

*David M. Husby*



WASHINGTON, D.C.





USCGC SPENCER, (WHEC-36), Homeport, Staten Island, New York. (U.S. Coast Guard Photo)

## ABSTRACT

This report contains the observed and interpolated temperature and salinity data plus the computed sigma-t, geopotential anomalies and sound velocities for 136 oceanographic stations occupied by U.S. Coast Guard cutters at Ocean Station DELTA (centered at 44°00' N., 41°00' W.) during July 1966–August 1967. They were the USCGC ESCANABA (WHEC 64), 15 July–2 August 1966; USCGC CAMPBELL (WHEC 32), 27 August–16 September 1966; USCGC HUMBOLDT (WHEC 372), 12 October–2 November 1966; USCGC CHINCOTEAGUE (WHEC 375), 26 November–17 December 1966; USCGC DUANE (WHEC 33), 10–31 January 1967; USCGC CASCO (WHEC 370), 20 March–11 April 1967; USCGC OWASCO (WHEC 39), 26 May–17 June 1967; and USCGC SPENCER (WHEC 36), 11 July–3 August 1967. Daily casts of 14 to 15 Nansen bottles were made to a desired depth of 1,500 meters when weather conditions permitted.



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## INTRODUCTION

Ocean Station DELTA (44°00' N., 41°00' W.) is located near the edge of the North Atlantic Drift (an extension of the Gulf Stream system) which is usually described as having a multiple-current structure and, therefore, the oceanographic conditions at DELTA would be expected to be complex. The U.S. Coast Guard Oceanographic Unit, in cooperation with the U.S. Naval Oceanographic Office (NAVOCEANO), first investigated the oceanographic environment at DELTA aboard the USCGC CASCO in March–April 1963 with the purpose of initiating a long term series of observations. These data were published in the U.S. Coast Guard Oceanographic Report No. 3, CG 373-3 (McGary and Morse, 1964). Analysis of these data indicated that there were several distinct water masses present in the near vicinity of Ocean Station DELTA and that there were large horizontal gradients in the temperature and salinity distributions.

NAVOCEANO conducted five 3-week cruises at Ocean Station DELTA between June 1962 and July 1963 to determine the vertical and horizontal variability in water properties in the immediate area of DELTA. Analysis of these data revealed that due to the proximity of DELTA to the North Atlantic Current, time sampling is similar to space sampling (Corton, 1967).

The water masses at DELTA were described as: (1) The surface mass of North Atlantic Drift (of Gulf Stream origin) which varied in thickness from 475 to 780 meters; (2) intermediate water masses, a cold water mass of subarctic origin and Mediterranean water which advects into the area, and (3) deep water masses, North Atlantic deep water and Newfoundland basin water.

The U.S. Coast Guard was unable to begin its time-series study at DELTA immediately in 1963 due to a shortage of deep sea reversing thermometers. The long term series of observations was initiated in July 1966 by the USCGC ESCANABA. The oceanographic sampling program consisted of daily Nansen bottle casts to 1,500 meters on alternate 3-week patrols. This program was expected to reveal large scale or seasonal changes in the water properties at DELTA. This report contains the data from 136 oceanographic stations at DELTA taken during the period from July 1966 to August 1967 by eight U.S. Coast Guard cutters. They were the USCGC ESCANABA, 15 July–2 August 1966; USCGC CAMP-

BELL, 27 August–16 September 1966; USCGC HUMBOLDT, 12 October–2 November 1966; USCGC CHINCOTEAGUE, 26 November–17 December 1966; USCGC DUANE, 10–31 January 1967; USCGC CASCO, 20 March–11 April 1967; USCGC OWASCO, 26 May–17 June 1967; and USCGC SPENCER, 11 July–3 August 1967.

## PROCEDURES

The sampling program at Ocean Station DELTA consisted of daily Nansen bottle casts to a depth of 1,500 meters when weather and other operations permitted. The Ocean Station vessels are normally required to make their observations within a 10-mile square grid centered on the nominal Ocean Station (44°00' N., 41°00' W. at DELTA). The location of DELTA in relation to the other Ocean Stations in the world is shown in figure 1.

For the daily casts the desired sampling depths were surface, 25, 50, 100, 150, 200, 250, 300, 400, 500, 600, 800, 1,000, 1,250, and 1,500 meters. For the deep casts the desired depths were 2,000, 2,500, 3,000, 3,500, and 4,000 meters plus 150 and 50 meters above the bottom as indicated by the vessel's echo-sounder. Serial observations of temperature and salinity were made at each station.

A pair of protected deep sea reversing thermometers were fitted into each Nansen bottle and, in addition, four or five bottles below 200 meters had an unprotected thermometer paired with the two protected ones for the thermometric determination of the sampling depths. Depths which were determined thermometrically are preceded by a "T" in the Oceanographic tables. Field observations of temperature were transmitted via radio teletype to the Coast Guard Oceanographic Unit immediately after the oceanographic station for real-time data processing and quality control. The reductions to *in situ* temperatures were accomplished with the use of a Digital Equipment Corporation PDP-5 computer. The processed data were then transmitted within 18 hours of observation to the Fleet Numerical Weather Facility, Monterey, Calif., for use in oceanographic forecasting.

Water samples for the determination of salinity were drawn from each Nansen bottle and stored in citrate bottles. The salinity content of each sample was determined aboard ship using inductive salinometers. The results of the salinity determinations were transmitted to the Coast Guard

Oceanographic Unit via radio teletype about every 5 days. In addition, duplicate samples were drawn from the top and bottom bottles of each cast and delivered to the Coast Guard Oceanographic Unit for the purpose of quality control when the vessel returned to port.

Processed temperature and salinity data for each cruise were recorded on form NODC-EXP-3167/25 (3-64), Physical and Chemical Data form for Oceanographic Data, and delivered to the National Oceanographic Data Center (NODC), Washington, D.C. The interpolated temperatures, salinities, sigma-t values, geopotential anomalies ( $\Delta D$ ) and sound velocities for the standard depths were computed by NODC and listings provided for the preparation of tables I-VIII.

### CRUISE NARRATIVES

The U.S. Coast Guard time-series oceanographic project at Ocean Station DELTA was initiated in July 1966 by the USCGC ESCANABA. During the period from 15 July to 2 August 1966 the USCGC ESCANABA occupied a total of 18 oceanographic stations in the vicinity of Ocean Station DELTA. Two stations had maximum sampling depth of less than 1,000 meters due to very large wire angles. A large number of the stations had wire angles in excess of 40°. The deep cast had a maximum sampling depth of only 2,352 meters in a water depth of 5,084 meters due to a failure of the winch during the cast. The USCGC ESCANABA had great difficulty maintaining position within the Ocean Station grid as is evidenced by the plot of the station positions in figure 2. The data are listed by NODC as Ref. No. 31-699 EN and as table I of this report. The USCGC ESCANABA also conducted continuous plankton sampling tows to and from Ocean Station DELTA for the Scottish Marine Biological Association, Edinburgh, Scotland. A total of 871 miles of continuous sampling was accomplished and the samples shipped to Scotland for processing.

During the 27 August to 16 September 1966 patrol of the USCGC CAMPBELL at Ocean Station DELTA, a total of 13 oceanographic stations were successfully occupied. One station had a maximum useful depth of only 172 meters due to the post-tripping of the bottles below this level. Three casts had maximum sample depths of less than 1,200 meters due to large wire angles. The deep cast had a maximum useful depth of only

3,357 meters in a water depth of 4,572 meters as a result of the last two bottles failing to trip. The distribution of all the stations about the center of DELTA is shown in figure 3. The ship reported heavy easterly undercurrents during the first half of the patrol and westerly currents during the latter half. The data are listed by NODC as Ref. No. 31-762 CM and as table II of this report.

The USCGC HUMBOLDT successfully conducted 17 oceanographic casts during the 11 October-2 November patrol on DELTA. One cast had a maximum useful depth of only 744 meters as a result of the post-tripping of bottles below this level. Another cast had a maximum useful depth of 1,218 meters due to a very large wire angle (55°). The remainder of the casts had maximum useful depths between 1,300 and 1,900 meters. Two deep casts were accomplished with maximum sampling depths of 3,712 and 4,498 meters in water depths of 4,625 and 4,599 meters, respectively. The USCGC HUMBOLDT also conducted continuous plankton sampling tows to and from Ocean Station DELTA for the Scottish Marine Biological Association, Edinburg, Scotland. A total of 850 miles of continuous plankton sampling was accomplished and the plankton samples were returned to Scotland for processing. The distribution of the stations about the center of DELTA is shown in figure 4. The data are listed by NODC as Ref. No. 31-772 HU and as table III of this report.

During the 26 November-18 December 1966 DELTA patrol, the USCGC CHINCOTEAGUE successfully occupied 16 oceanographic stations. The maximum useful depths ranged from 1,200 to 1,700 meters with one cast having a maximum useful depth of 1,111 meters due to the malfunction of the thermometers on the deepest bottle. Two deep casts were accomplished with maximum useful depths of 2,519 and 3,574 meters in a water depth of 4,572 meters in both cases. The distribution of the stations about the center of DELTA is shown in figure 5. The data are listed by NODC as Ref. No. 31-826 CC and as table IV of this report.

The USCGC DUANE successfully occupied 11 oceanographic stations during the 10-31 January 1967 patrol on DELTA. Two casts had maximum useful depths of only 743 and 748 meters as a result of excessive wire angles causing pretripping of the deeper bottles. The remainder of the casts had maximum useful depths ranging from 1,100 to 1,600 meters. One deep cast was accomplished with a maximum useful depth of 3,985 meters in a

water depth of 4,755 meters. Wind and sea conditions prohibited oceanographic operations a total of 10 days during the patrol. The distribution of the stations about the center of DELTA is shown in figure 6. The data are listed by NODC as Ref. No. 31-850 DU and as table V of this report.

The USCGC CASCO successfully occupied 23 oceanographic stations during the 20 March-11 April 1967 patrol on DELTA. One cast had a maximum sample depth of only 666 meters due to the cast snagging some unknown object and the subsequent loss of four Nansen bottles with their thermometers and 1,175 meters of cable. Another cast had a maximum useful depth of 780 meters due to malfunctioning of thermometers in the deeper bottles. The remaining 21 casts had maximum sample depths between 1,300 and 1,700 meters. One deep cast was accomplished with a maximum sample depth of 4,410 meters in a water depth of 4,663 meters. The distribution of the stations about the center of DELTA is shown in figure 7. The data are listed by NODC as Ref. No. 31-888 CS and as table VI of this report.

During the 11 July to 3 August 1967 patrol of the USCGC SPENCER on DELTA, 18 oceanographic stations were successfully taken. Two casts had maximum useful depths of less than 1,300 meters due to wire angles in excess of 40°. The remainder of the casts had maximum sample depths ranging from 1,400 to 1,700 meters. One deep cast was accomplished with a maximum sample depth of 3,585 meters in a water depth of 4,537 meters. The distribution of the stations about the center of DELTA is shown in figure 9. The data are listed by NODC as Ref. No. 31-1091 SC and as table VIII of this report.

## DISCUSSION

As a result of the station dispersion on the cruises of the USCGC ESCANABA and USCGC CAMPBELL (see figs. 2 and 3), cross sections of temperature and salinity were constructed along the lines A-B and C-D to illustrate the presence of the different water masses in the vicinity of Ocean Station DELTA. These lines were selected to include the maximum number of stations and still preserve a certain amount of synopticity in the data. Figure 10, the temperature and salinity cross sections along line A-B in July 1966, reveals a tongue of relatively cold (9-13° C.), low salinity (35.1-35.4‰) water between 50 and 300 meters from the north and a tongue of warm (13-16° C.), high salinity (35.8-36.1‰) water from the south.

Between these two water masses is a frontal zone which probably contains an easterly flowing current due to the general sloping of the isolines down to the east.

Figure 11 shows the cross sections of temperature and salinity along line C-D in August-September 1966. These data were taken in approximately the same location as those in figure 10, but the large gradients, both vertically and horizontally, observed in July are not evident. The temporal variations are therefore also significant, at least on a monthly scale.

Analysis of the data from the eight patrols on Ocean Station DELTA revealed that significant variations did occur in the data both in time and space during the particular 21-day periods on station. The data from each patrol are therefore presented as deviations from a mean value at each observed level. Obviously anomalous stations which were occupied out of the Ocean Station grid were not included in the averaging. Figures 12 through 19 contain the mean temperature versus depth and mean salinity versus depth curves for each patrol. Accompanying these curves are tables 1-8 in which are tabulated the maximum, minimum, and mean values of temperature and salinity at each standard level. Also tabulated are the standard deviations ( $1\sigma$ ) of the values from the mean.

### Vertical temperature distribution :

The mean curves from the eight patrols reveal a basic stratification of the water mass at Ocean Station DELTA: (1) A surface layer responsive to the seasonal variations in incident radiation, (2) a body of water with a temperature of 12-14° C. between 200 and 400 meters, (3) a permanent thermocline (6-12° C.) and (4) North Atlantic Deep Water below 1,000 meters. The thermal structure from July 1966 to January 1967 changed from the situation of a large negative gradient in the upper 50 meters (21° C. to 17° C.) to a nearly isothermal structure in the upper 150 meters with a temperature in the range of 14.00-14.70° C. From January 1967 to July 1967 a seasonal thermocline was again established in the upper 50 meters. (See figs. 20 and 21)

There were rather anomalous conditions observed in the October-November patrol of the USCGC HUMBOLDT. The water was significantly warmer between 100 meters and 800 meters than at any other time of the year. The water was from 0.5 to 1.0° C. warmer than the summer observations. This may have been the result of the

intensification of the North Atlantic Drift in the vicinity of Ocean Station DELTA during this period. Another dominant trend in the vertical temperature structure was the increase in temperature of the water between 400 and 800 meters during the period from July 1966 to July 1967. The water in this depth interval was about 1.0° C warmer in July 1967 than in July 1966.

Vertical salinity distribution:

The dominant feature of the salinity structure was the maximum value between 100 and 150 meters. The exact location of maxima and minima is smoothed out in the averaging process, but it is evident from figure 22 that there was a maximum salinity value at about 100 meters in July 1966 and that as winter approached, convective mixing lowered the maximum salinity and caused it to be located deeper in the water column. However, the structure during the October–November and November–December periods is anomalous, as was observed in the temperature structure. The salinity structure during the October–November period revealed a greater maximum salinity value than any other period (36.14‰) and suggests again an influx of North Atlantic Drift water. The salinity values between 100 and 800 meters were significantly greater during this period than during the previous summer period.

From January 1967 to July 1967 the vertical salinity structure changed from a near isohaline distribution (35.60–35.75‰) in January in the upper 300 meters to the establishment of a salinity maximum (36.10‰) at about 50 meters. In addition, there was a large increase in the salinity

values between 400 and 800 meters during this period. The increase amounted to nearly 0.20‰.

## SUMMARY

The results of eight oceanographic patrols on Ocean Station DELTA between July 1966 and July 1967 confirmed the earlier reports of complex oceanographic conditions in this area. It was found that the best way to describe the oceanographic conditions for a given period of time was in terms of deviations from a mean value.

The analysis of the data revealed that the normal seasonal cycle of heating in the summer and cooling in the winter followed by convective mixing and the formation of a deep mixed layer was disturbed in the vicinity of Ocean Station DELTA during the October–December 1966 period. During this period there was an influx of relatively warm, high salinity water below 100 meters probably associated with an extension of the Gulf Stream system. It was observed that Ocean Station DELTA is located in a frontal zone between a subarctic water mass in the north and a water mass probably of Gulf Stream origin on the south.

In addition to significant fluctuations in conditions from month to month, there was considerable difference in conditions over a year's period. From July 1966 and July 1967 the water mass below 300 meters showed a considerable increase in both temperature and salinity. This is probably due to the close proximity of Ocean Station DELTA to the edge of the North Atlantic Drift which undergoes considerable fluctuations in location and magnitude.

## Literature Cited

Corton E. L., 1967. Variation in the Vertical Water Structure at OWS DELTA (44° N., 41° W.), U.S. Naval Oceanographic Office, IR No. 67-68 (Informal).  
McGary, J. W. and R. M. Morse, 1964. Oceanographic

Observations at North Atlantic Ocean Station DELTA, March–April 1963, U.S. Coast Guard Oceanographic Report No. 3, CG-373-3.

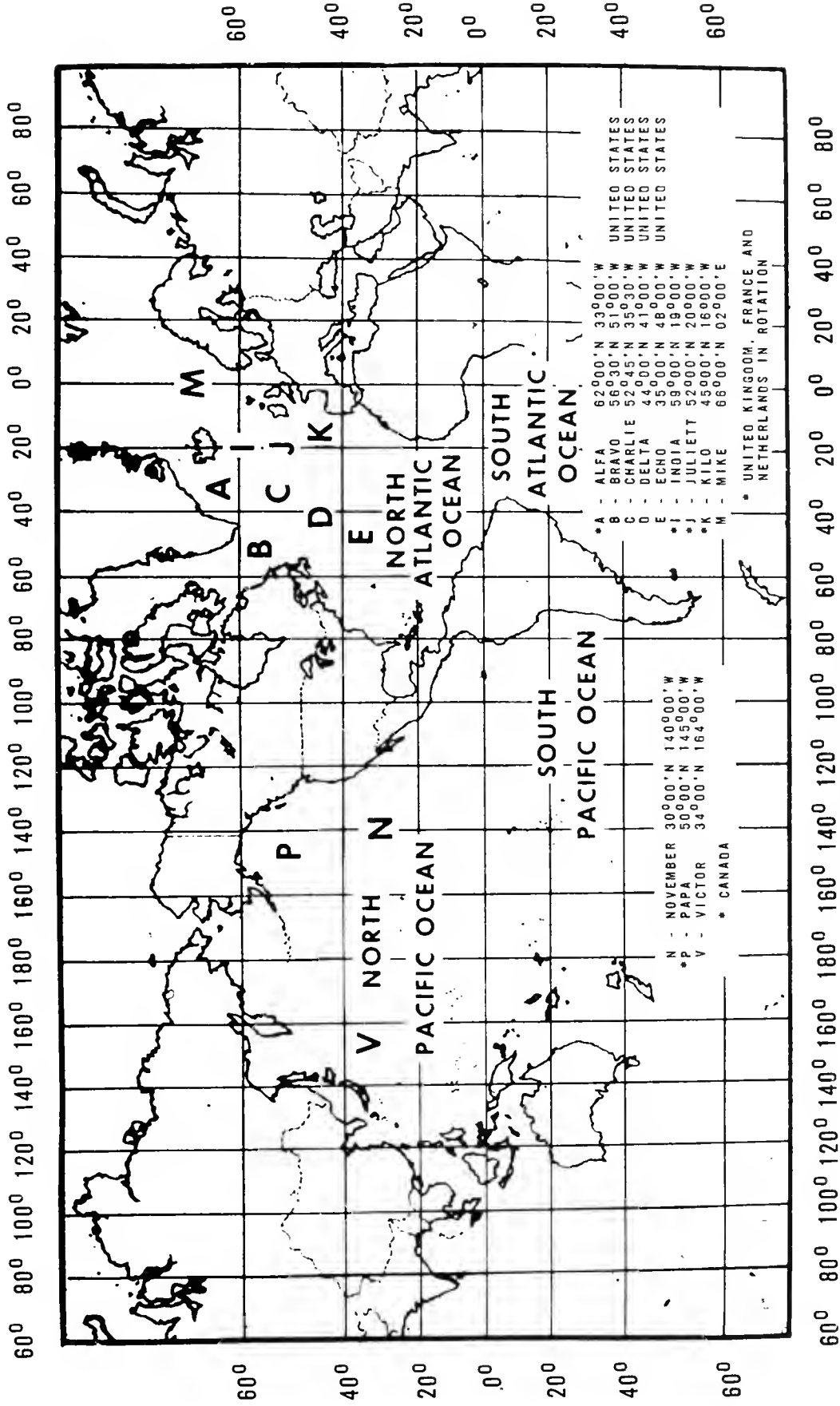


FIGURE 1. Chart of all Ocean Station in the world.

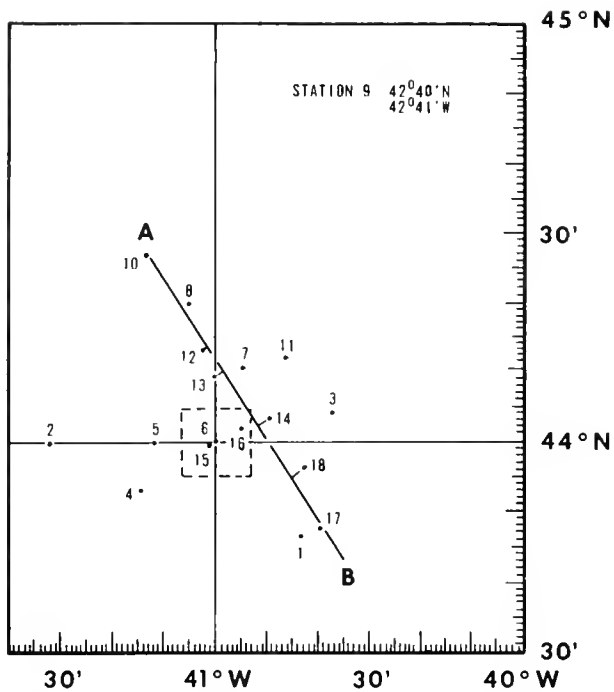


FIGURE 2. Positions of oceanographic stations taken by USCGC ESCANABA during 15 July-2 August 1966 at Ocean Station DELTA.

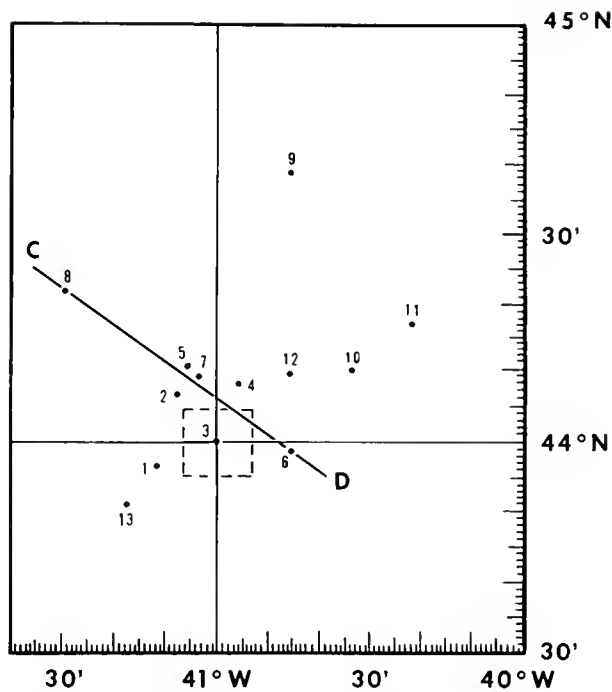


FIGURE 3. Positions of oceanographic stations taken by USCGC CAMPBELL during 27 August-16 September 1966 at Ocean Station DELTA.

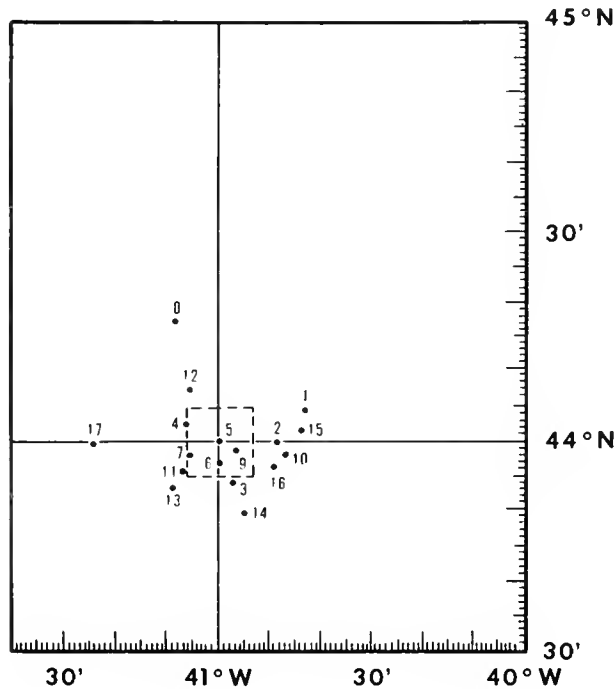


FIGURE 4. Positions of oceanographic stations taken by USCGC HUMBOLDT during 12 October-2 November 1966 at Ocean Station DELTA.

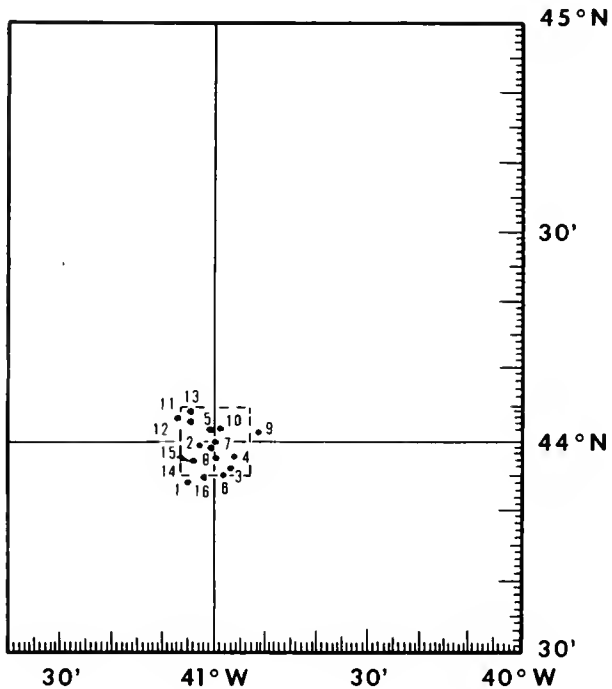


FIGURE 5. Positions of oceanographic stations taken by USCGC CHINCOTEAGUE during 26 November-17 December 1966 at Ocean Station DELTA.

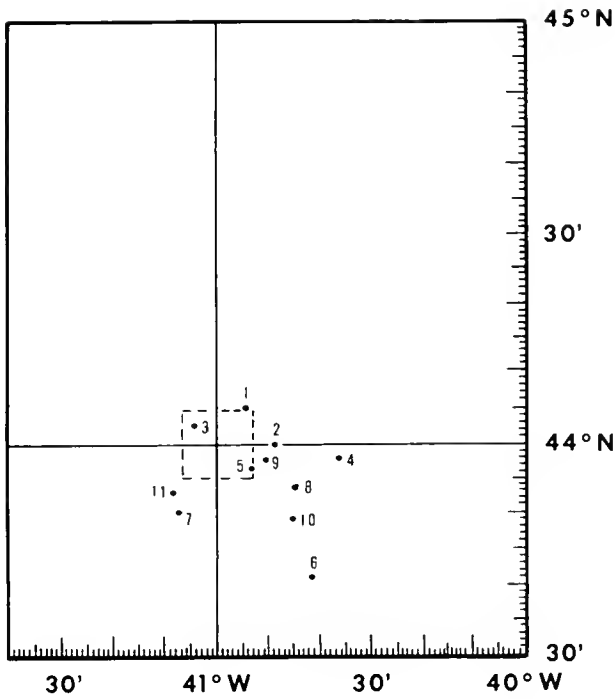


FIGURE 6. Positions of oceanographic stations taken by USCGC DUANE during 10-31 January 1967 at Ocean Station DELTA.

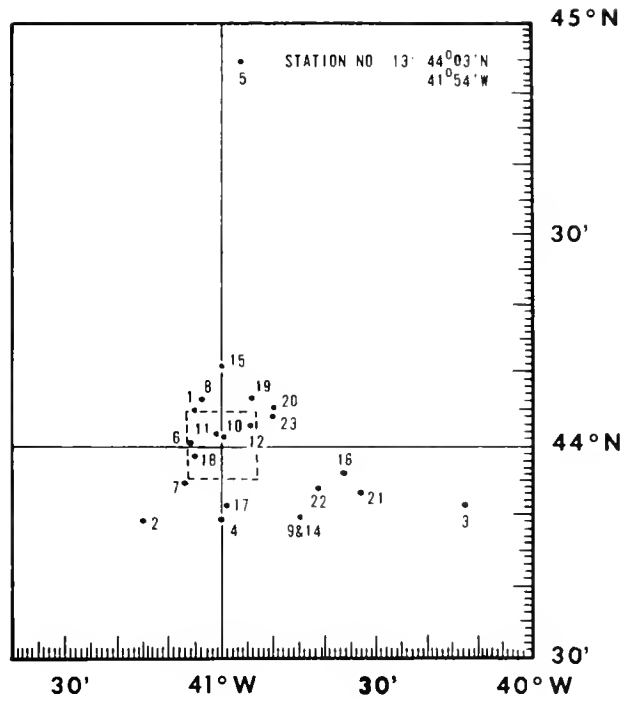


FIGURE 7. Positions of oceanographic stations taken by USCGC CASCO during 20 March-11 April 1967 at Ocean Station DELTA.

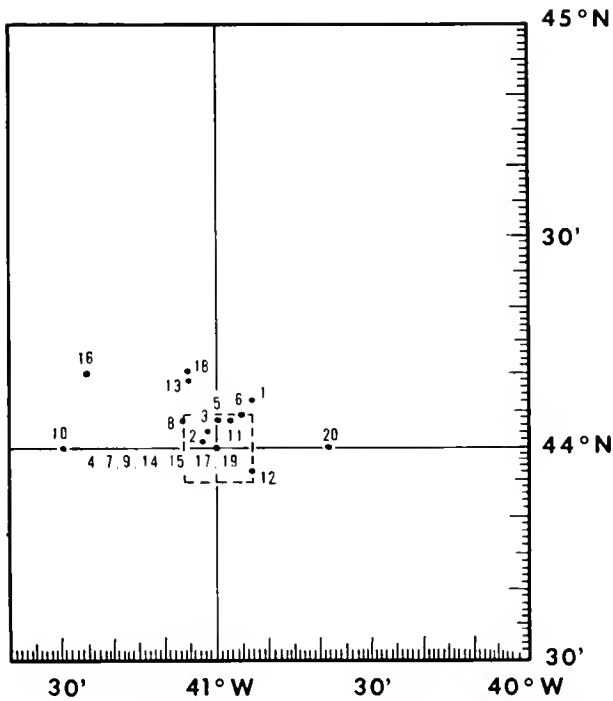


FIGURE 8. Positions of oceanographic stations taken by USCGC OWASCO during 26 May-17 June 1967 at Ocean Station DELTA.

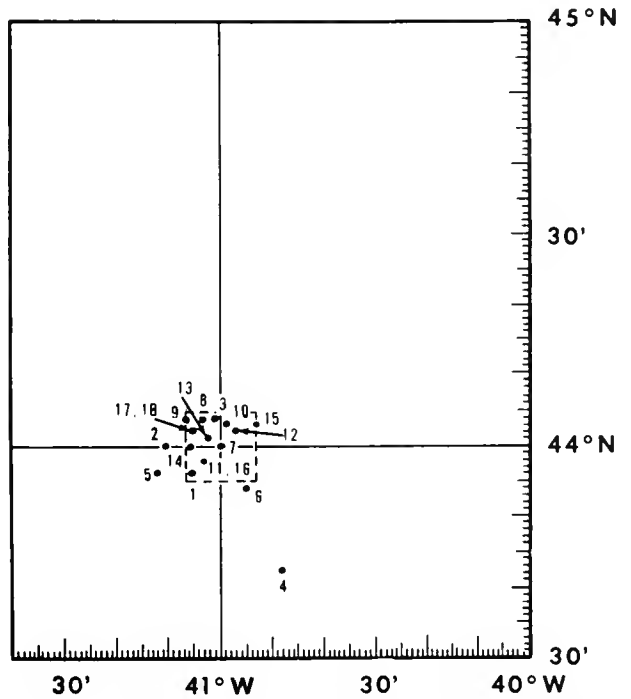


FIGURE 9. Positions of oceanographic stations taken by USCGC SPENCER during 12 July-31 July 1967 at Ocean Station DELTA.

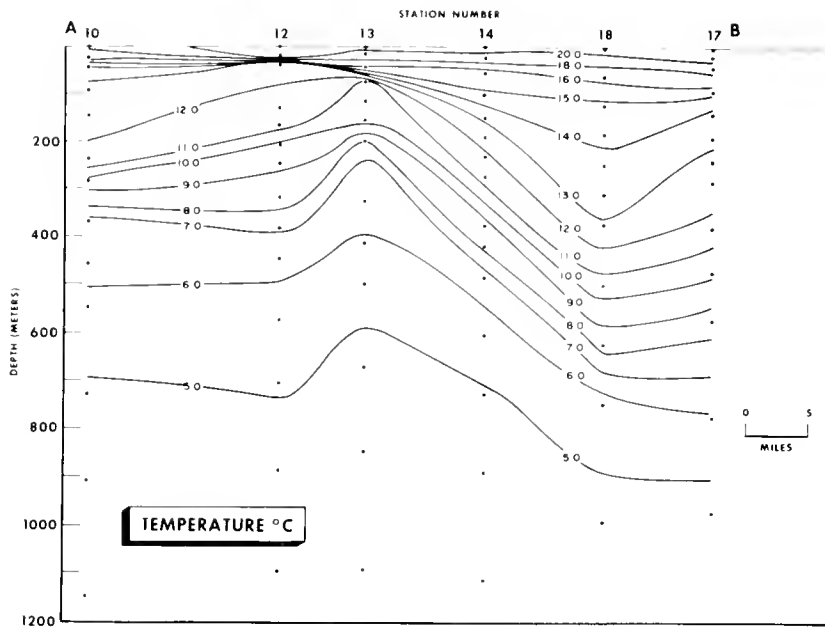


FIGURE 10a. Vertical cross-section of temperature along line A-B (see figure 2) at Ocean Station DELTA from USCGC ESCANABA, 15 July-2 August 1966.

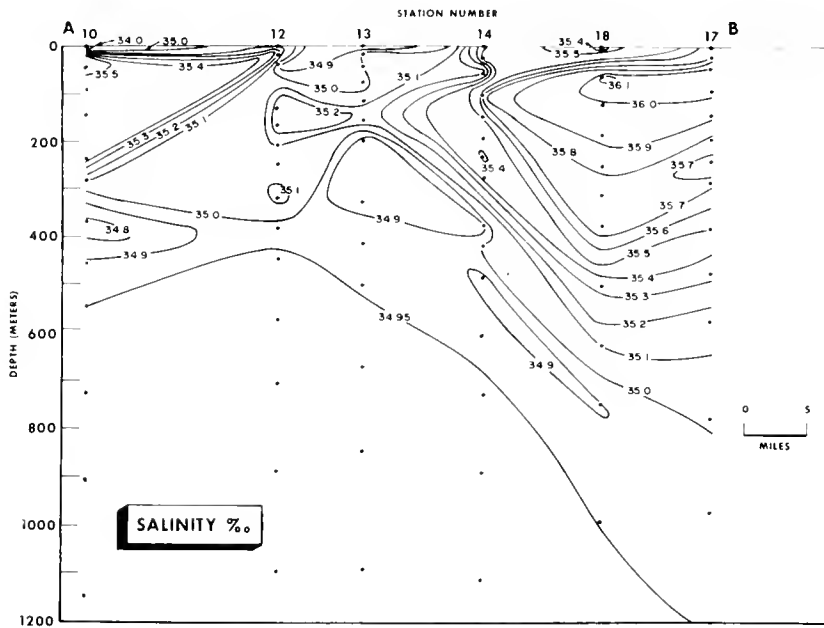


FIGURE 10b. Vertical cross-section of salinity along line A-B (see figure 2) at Ocean Station DELTA from USCGC ESCANABA, 15 July-2 August 1966.



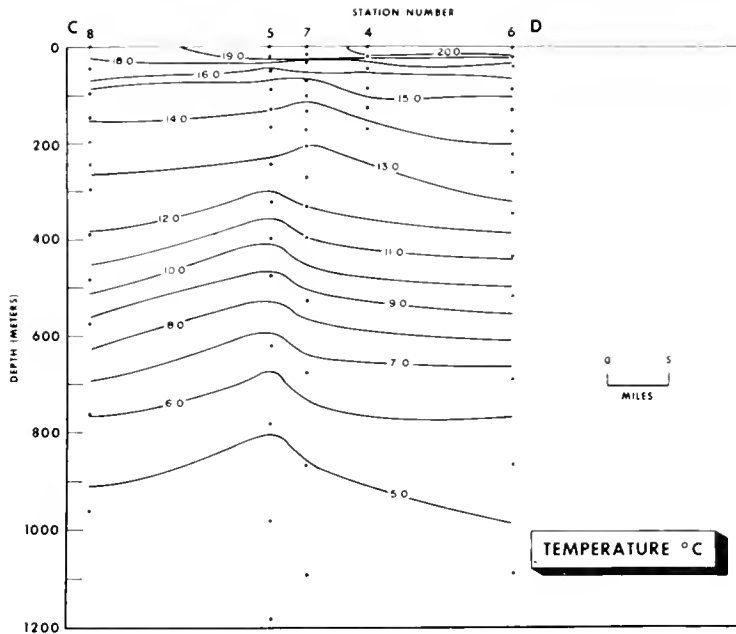


FIGURE 11a. Vertical cross-section of temperature along line C-D (see figure 3) at Ocean Station DELTA from USCGC CAMPBELL, 27 August-16 September 1966.

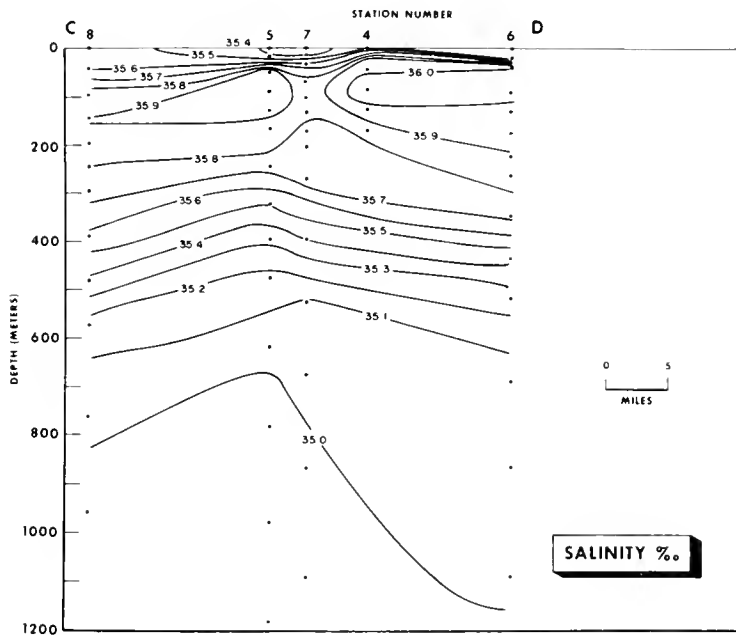


FIGURE 11b. Vertical cross-section of salinity along line C-D (see figure 3) at Ocean Station DELTA from USCGC CAMPBELL, 27 August-16 September 1966.

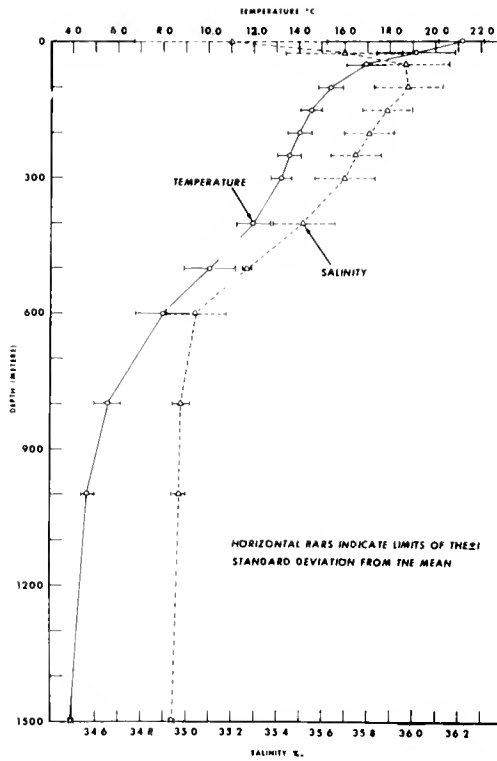


FIGURE 12. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC ESCANABA, 15 July–August 1966 (see Table 1).

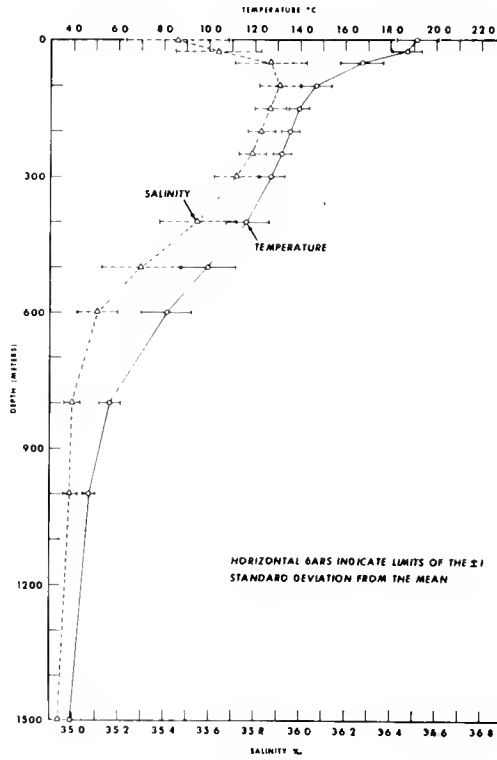


FIGURE 13. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC CAMPBELL, 27 August–16 September 1966 (see Table 2).

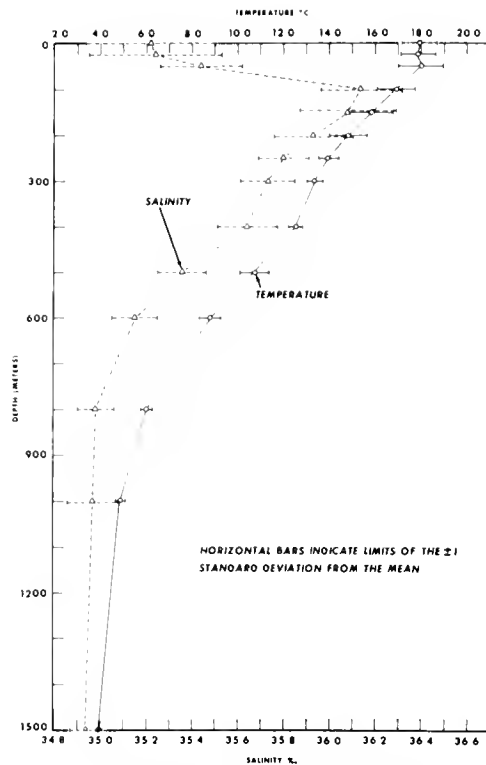


FIGURE 14. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC HUMBOLDT, 12 October–2 November 1966 (see Table 3).

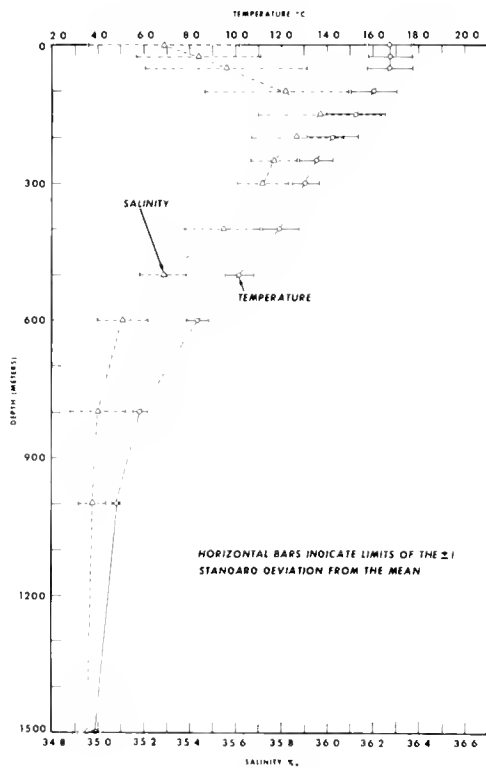


FIGURE 15. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC CHINCOTEAGUE, 26 November–17 December 1966 (see Table 4).

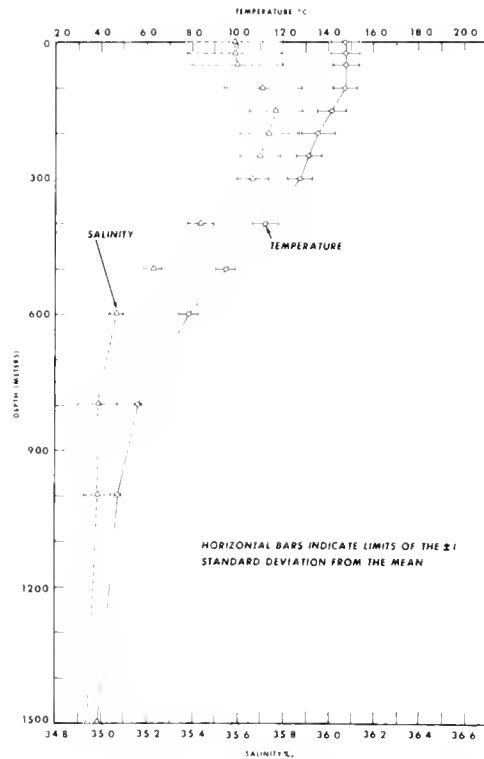


FIGURE 16. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC DUANE, 10-31 January 1967 (see Table 5).

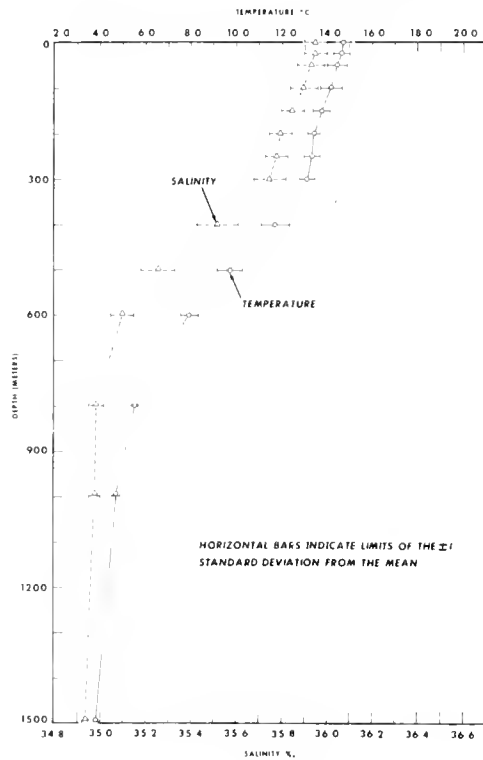


FIGURE 17. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC CASCO, 20 March-11 April 1967 (see Table 6).

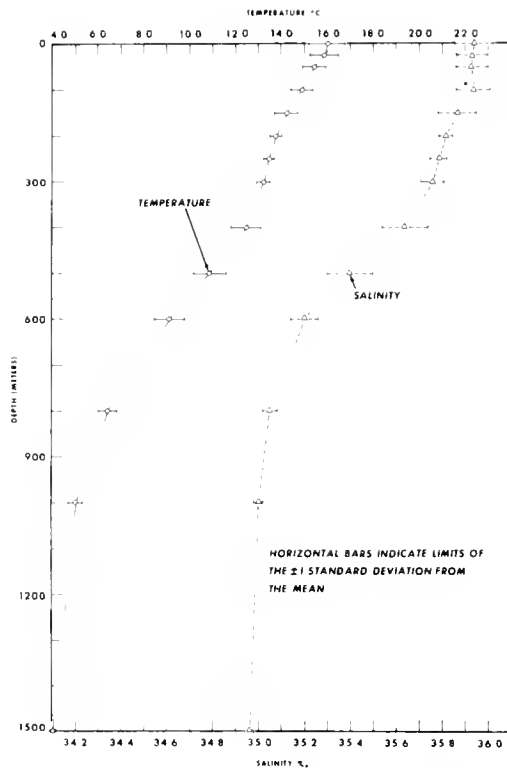


FIGURE 18. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC OWASCO, 26 May-17 June 1967 (see Table 7).

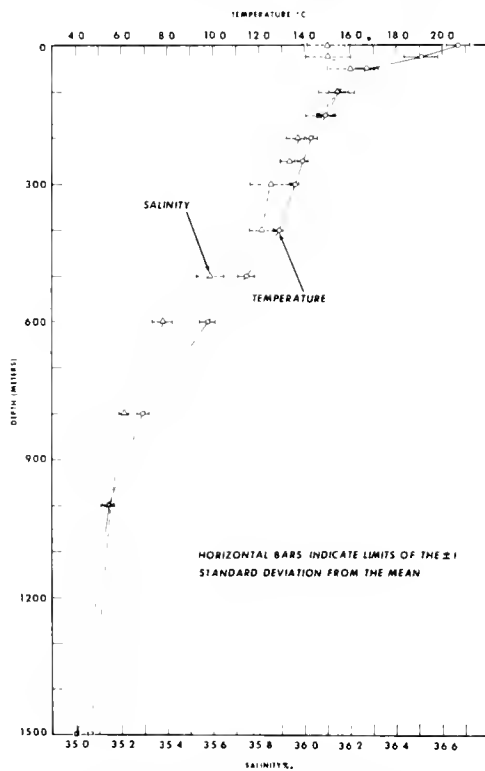


FIGURE 19. Mean values of temperature and salinity versus depth at Ocean Station DELTA at selected depths. Prepared from data of USCGC SPENCER, 12 July-31 July 1967 (see Table 8).

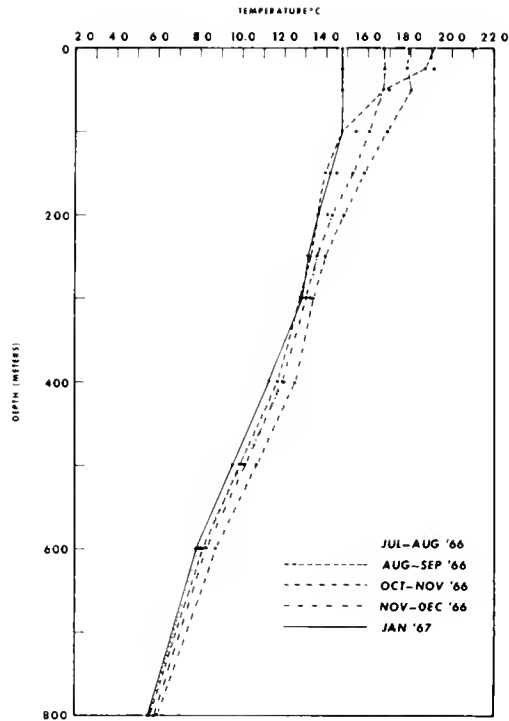


FIGURE 20. Mean values of temperature versus depth at Ocean Station DELTA on five cruises by U.S. Coast Guard Cutters between July 1966 and January 1967.

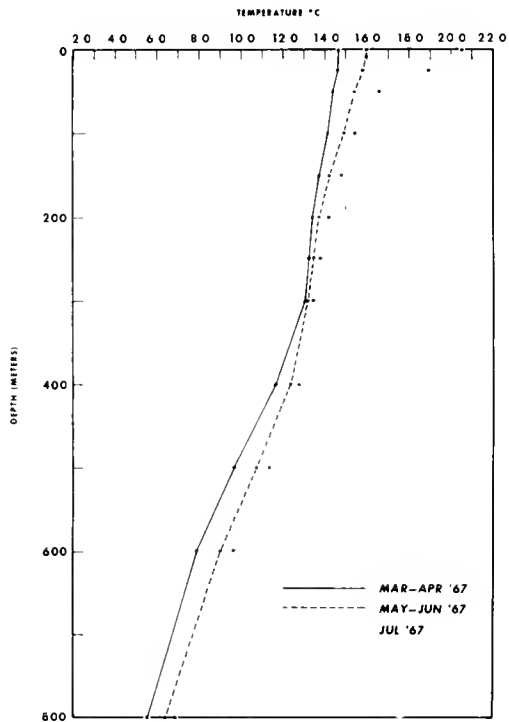


FIGURE 21. Mean values of temperature versus depth at Ocean Station DELTA on three cruises by U.S. Coast Guard Cutters between March 1967 and July 1967.

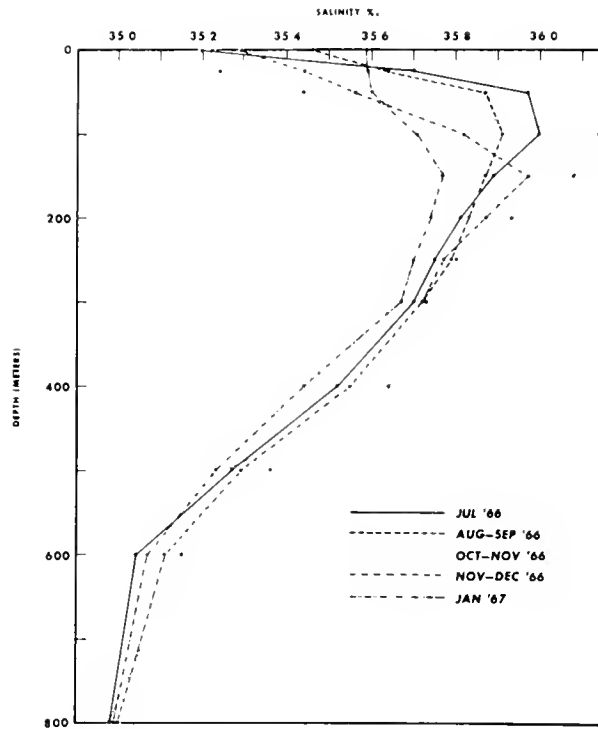


FIGURE 22. Mean values of salinity versus depth at Ocean Station DELTA on five cruises by U.S. Coast Guard Cutters between July 1966 and January 1967.

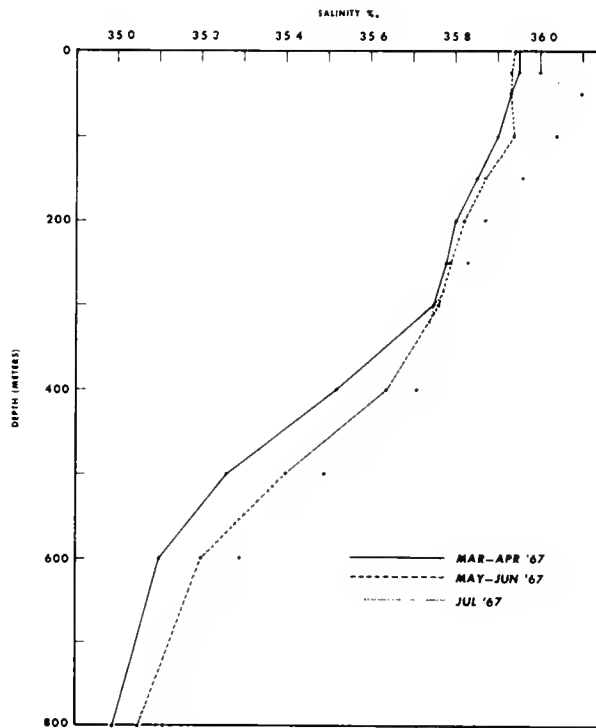


FIGURE 23. Mean values of salinity versus depth at Ocean Station DELTA on three cruises by U.S. Coast Guard Cutters between March 1967 and July 1967.

TABLE 1

# VARIATIONS AT SELECTED DEPTHS USCGC ESCANABA, OCEAN STATION DELTA

15 July - 2 August 1966

Temperature °C

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	13	22.36	18.72	21.17	0.98
25	13	21.31	15.68	19.11	1.72
50	13	18.52	15.14	16.98	0.88
100	13	16.48	14.65	15.40	0.54
150	13	15.47	13.78	14.52	0.47
200	13	14.95	13.14	14.01	0.53
250	13	14.31	12.73	13.56	0.53
300	13	14.28	12.55	13.20	0.45
400	13	13.39	10.99	11.99	0.74
500	13	10.97	8.20	10.04	1.12
600	13	10.61	6.20	7.97	1.16
800	12	6.81	4.87	5.54	0.58
1000	12	4.87	4.27	4.66	0.23
1500	8	4.01	3.85	3.95	0.06

Salinity ‰

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	13	35.81	34.27	35.20	0.43
25	13	36.05	35.24	35.70	0.26
50	13	36.30	35.65	35.97	0.20
100	13	36.18	35.63	35.98	0.15
150	13	36.05	35.67	35.89	0.12
200	13	36.02	35.61	35.81	0.12
250	13	36.00	35.53	35.75	0.12
300	13	35.97	35.50	35.70	0.13
400	13	35.81	35.31	35.52	0.14
500	13	35.68	35.06	35.27	0.02
600	13	35.37	34.89	35.04	0.13
800	12	35.04	34.94	34.98	0.03
1000	12	34.92	35.00	34.97	0.03
1500	6	34.95	34.93	34.94	0.01



TABLE 2

# VARIATIONS AT SELECTED DEPTHS

## USCGC CAMPBELL, OCEAN STATION DELTA

27 August - 16 September 1966

Temperature °C

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STO. DEVIATION
0	9	20.15	17.62	19.17	0.92
25	9	19.42	17.63	18.71	0.67
50	9	18.02	15.41	16.72	0.97
100	9	15.95	14.27	14.70	0.67
150	9	14.46	13.14	13.96	0.45
200	8	14.05	13.02	13.58	0.40
250	8	13.71	12.72	13.20	0.40
300	8	13.30	11.99	12.77	0.58
400	8	13.03	10.17	11.68	0.95
500	8	11.58	8.35	9.98	1.21
800	8	8.41	6.61	8.11	1.10
800	8	8.22	4.90	5.82	0.47
1000	7	5.08	4.42	4.72	0.26
1500	2	3.88	3.88	3.83	--

Salinity ‰/00

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STO. DEVIATION
0	9	35.87	35.02	35.46	0.23
25	9	35.96	35.37	35.64	0.19
50	9	36.08	35.61	35.87	0.16
100	9	36.04	35.74	35.91	0.09
150	9	35.97	35.73	35.87	0.07
200	8	35.93	35.73	35.83	0.06
250	8	35.86	35.71	35.79	0.06
300	8	35.81	35.57	35.72	0.10
400	8	35.74	35.32	35.55	0.17
500	8	35.53	35.11	35.30	0.17
600	8	35.21	34.97	35.11	0.09
800	8	35.04	34.96	35.00	0.03
1000	7	35.02	34.94	34.99	0.03
1500	2	34.95	34.94	34.94	--

**TABLE 3**  
**VARIATIONS AT SELECTED DEPTHS**  
**USCGC HUMBOLDT, OCEAN STATION DELTA**  
**12 October - 2 November 1966**

Temperature °C

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	16	19.03	16.67	17.95	0.72
25	16	18.94	16.69	17.88	0.77
50	17	19.76	16.81	18.91	0.97
100	17	18.13	15.17	16.92	0.83
150	17	17.05	14.08	15.82	0.98
200	17	16.02	13.33	14.81	0.79
250	17	14.81	13.20	13.96	0.48
300	17	14.02	12.70	13.37	0.34
400	17	13.21	11.43	12.52	0.30
500	17	11.51	9.62	10.73	0.60
600	17	9.32	7.91	8.79	0.48
800	16	6.56	5.88	6.00	0.24
1000	16	5.53	4.72	4.88	0.19
1500	8	3.88	3.85	3.81	0.05

Salinity ‰

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	17	35.76	34.69	35.22	0.28
25	17	35.76	34.69	35.24	0.29
50	17	35.80	35.10	35.44	0.20
100	17	36.40	35.68	36.14	0.18
150	17	36.33	35.80	36.08	0.21
200	17	36.15	35.70	35.93	0.17
250	17	35.96	35.68	35.80	0.11
300	17	35.83	35.62	35.73	0.12
400	17	35.83	35.41	35.64	0.13
500	17	35.53	35.19	35.36	0.10
600	17	35.24	35.07	35.15	0.10
800	16	35.03	34.95	34.98	0.08
1000	16	34.99	34.95	34.97	0.11
1500	9	34.95	34.93	34.94	0.07

TABLE 4

# VARIATIONS AT SELECTED DEPTHS

## USCGC CHINCOTEAGUE, OCEAN STATION DELTA

November - December 1966

Temperature °C

DEPTH (METERS)	NO OF OBS	MAX	MIN	MEAN	STD. DEVIATION
0	16	17.77	15.52	16.71	0.90
25	16	17.84	15.53	16.76	0.93
50	16	17.92	15.50	16.71	0.99
100	16	17.59	14.56	16.01	1.05
150	16	16.99	13.61	15.25	1.32
200	16	16.00	12.60	14.24	1.12
250	16	14.53	12.52	13.54	0.73
300	16	13.92	12.39	13.06	0.58
400	16	13.05	10.70	11.93	0.86
500	16	11.04	9.44	10.18	0.63
600	16	9.35	6.57	8.32	0.45
800	16	6.32	5.36	5.86	0.33
1000	16	5.05	4.63	4.84	0.15
1500	6	4.08	3.81	3.89	0.12

Salinity ‰

DEPTH (METERS)	NO. OF OBS	MAX	MIN	MEAN	STD DEVIATION
0	16	35.79	34.73	35.29	0.33
25	16	35.82	34.88	35.44	0.27
50	16	35.95	34.48	35.56	0.35
100	16	36.43	35.03	35.82	0.35
150	16	36.37	35.45	35.97	0.27
200	16	36.35	35.58	35.87	0.20
250	16	36.01	35.61	35.77	0.10
300	16	35.95	35.60	35.72	0.11
400	16	35.81	35.36	35.55	0.17
500	16	35.51	35.15	35.29	0.10
600	16	35.28	34.98	35.11	0.11
800	16	35.08	34.95	35.00	0.12
1000	16	35.00	34.97	34.98	0.06
1500	6	35.01	34.93	34.96	0.04

TABLE 5

**VARIATIONS AT SELECTED DEPTHS  
USCGC DUANE, OCEAN STATION DELTA**

10 - 31 January 1967

Temperature °C

Salinity ‰

DEPTH (METERS)	NO. OF OBS	MAX.	MIN	MEAN	STD. DEVIATION
0	11	15.75	13.84	14.71	0.63
25	11	15.78	13.85	14.74	0.65
50	11	15.62	13.83	14.73	0.62
100	11	15.60	13.79	14.72	0.56
150	11	15.76	13.61	14.19	0.65
200	11	15.28	12.80	13.56	0.75
250	11	14.35	12.28	13.15	0.58
300	11	13.91	11.77	12.75	0.55
400	11	12.59	10.48	11.26	0.57
500	11	10.16	8.82	9.51	0.42
600	11	8.46	7.30	7.86	0.41
800	9	8.10	5.24	5.81	0.09
1000	8	4.94	4.85	4.79	0.11
1500	3	3.97	3.89	3.90	--

DEPTH (METERS)	NO. OF OBS.	MAX	MIN	MEAN	STD DEVIATION
0	11	35.98	35.39	35.59	0.21
25	11	35.99	35.40	35.59	0.21
50	11	36.00	35.40	35.60	0.20
100	11	35.96	35.51	35.71	0.17
150	11	36.09	35.59	35.77	0.12
200	11	36.01	35.60	35.74	0.13
250	11	35.85	35.56	35.70	0.09
300	11	35.82	35.50	35.67	0.07
400	11	35.62	35.33	35.44	0.06
500	11	35.27	35.16	35.23	0.04
600	11	35.11	35.02	35.07	0.03
800	9	35.04	34.96	34.99	0.09
1000	8	35.02	34.97	34.99	0.06
1500	3	34.96	34.93	34.95	--

TABLE 6

# VARIATIONS AT SELECTED DEPTHS

## USCGC CASCO, OCEAN STATION DELTA

20 March - 11 April 1967

Temperature °C

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	15	15.28	14.08	14.70	0.39
25	15	15.21	14.01	14.64	0.36
50	15	15.06	13.60	14.44	0.43
100	15	14.88	13.45	14.18	0.48
150	15	14.49	13.19	13.79	0.37
200	15	13.86	13.07	13.45	0.25
250	15	14.11	12.84	13.36	0.33
300	15	13.58	12.57	13.13	0.31
400	15	12.79	10.59	11.74	0.62
500	15	10.85	8.76	9.73	0.58
600	15	8.71	7.16	7.96	0.40
800	14	5.77	5.36	5.57	0.10
1000	14	5.05	4.59	4.72	0.14
1500	10	4.02	3.81	3.86	0.06

Salinity ‰/00

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	15	36.03	35.85	35.95	0.05
25	15	36.02	35.85	35.95	0.05
50	15	36.02	35.83	35.93	0.06
100	15	35.99	35.80	35.90	0.06
150	15	35.95	35.75	35.85	0.05
200	15	35.89	35.73	35.80	0.05
250	15	35.85	35.69	35.78	0.05
300	15	35.85	35.65	35.75	0.07
400	15	35.69	35.36	35.52	0.09
500	15	35.40	35.16	35.27	0.07
600	15	35.20	35.01	35.10	0.05
800	14	35.06	34.97	34.99	0.03
1000	14	35.01	34.95	34.98	0.02
1500	10	34.97	34.93	34.94	0.01

TABLE 7

**VARIATIONS AT SELECTED DEPTHS  
USCGC OWASCO, OCEAN STATION DELTA**

26 May - 17 June 1967

Temperature °C

Salinity ‰

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	20	17.12	14.66	16.06	0.72
25	19	16.60	14.60	15.88	0.63
50	20	16.49	14.31	15.48	0.53
100	20	15.55	13.61	14.92	0.46
150	20	15.34	13.31	14.28	0.47
200	20	14.24	13.18	13.78	0.27
250	20	13.87	12.87	13.49	0.21
300	20	13.42	12.12	13.22	0.29
400	20	13.20	10.47	12.46	0.64
500	20	12.15	9.96	10.87	0.75
600	20	10.58	7.61	9.10	0.66
800	20	7.41	5.73	6.41	0.39
1000	20	5.83	4.82	5.08	0.28
1500	14	4.24	3.83	4.01	0.13

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STD. DEVIATION
0	20	36.075	35.823	35.940	0.085
25	20	36.06	35.80	35.93	0.07
50	20	36.02	35.83	35.93	0.07
100	20	36.04	35.80	35.94	0.07
150	20	36.08	35.78	35.87	0.08
200	20	35.87	35.76	35.82	0.03
250	20	35.85	35.71	35.79	0.03
300	20	35.81	35.59	35.76	0.05
400	20	35.77	35.34	35.64	0.10
500	20	35.58	35.17	35.40	0.10
600	20	35.34	35.10	35.20	0.06
800	20	35.15	35.01	35.05	0.03
1000	20	35.03	34.95	35.00	0.02
1500	20	35.00	34.93	34.96	0.02

TABLE 8  
**VARIATIONS AT SELECTED DEPTHS**  
**USCGC SPENCER, OCEAN STATION DELTA**

12 - 31 July 1967

Temperature °C

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STO. DEVIATION
0	18	21.44	19.90	20.61	0.48
25	18	20.45	17.52	19.02	0.74
50	18	17.58	15.77	16.64	0.51
100	18	16.19	14.70	15.45	0.44
150	18	15.70	14.18	14.87	0.39
200	18	14.77	13.84	14.26	0.28
250	18	14.14	13.59	13.83	0.19
300	18	13.77	13.20	13.51	0.18
400	18	13.17	12.48	12.87	0.20
500	18	12.00	10.60	11.44	0.36
600	18	10.29	8.86	9.71	0.37
800	18	7.27	8.48	8.94	0.22
1000	18	8.10	5.09	5.45	0.24
1500	11	4.17	3.88	4.02	0.08

Salinity ‰

DEPTH (METERS)	NO. OF OBS.	MAX.	MIN.	MEAN	STO. DEVIATION
0	18	36.081	35.823	35.998	0.081
25	18	36.13	35.88	36.00	0.10
50	18	36.26	35.87	36.19	0.10
100	18	36.15	35.90	36.04	0.08
150	18	36.10	35.86	35.96	0.06
200	18	35.95	35.78	35.87	0.05
250	18	35.87	35.75	35.83	0.03
300	18	35.84	35.73	35.75	0.19
400	18	35.77	35.63	35.71	0.05
500	18	35.59	35.35	35.48	0.06
600	18	35.34	35.18	35.28	0.04
800	18	35.15	35.05	35.11	0.02
1000	18	35.09	35.00	35.05	0.02
1500	18	34.99	34.95	34.96	0.01

# Explanation of Oceanographic Station Data

## Description of Entries, Units and Codes on NODC Station Listing

### 1. Surface Observations:

<i>Entry</i>	<i>Description of Field</i>
NODC REF. ID. NO.-----	NODC reference identity number.
COUNTRY CODE-----	Indicates nationality of the institute or agency conducting the survey or expedition.
CRUISE NUMBER-----	A reference number assigned by NODC for storage-retrieval purposes. NODC Publication C-1, <i>Reference Sources of Oceanographic Station Data</i> , gives complete bibliographic and other pertinent information for each cruise.
SHIP CODE-----	Alphabetic representation of ship's name (or ICES numeric ship code).
LATITUDE -----	Degrees, minutes, and tenths of minutes, N. or S.
LONGITUDE -----	Degrees, minutes, and tenths of minutes, E. or W.
DRIFT INDICATOR-----	The letter D appears in this column if extensive drift occurred while on station.
MARSDEN SQUARE:	
10° -----	Marsden square number according to the Marsden square system.
1° -----	The 1° square number according to the Marsden square system.
STATION TIME:	
(GMT) -----	Date and time given by the originator (GMT).
MONTH -----	Month (GMT).
DAY -----	Day (GMT).
HR. 1/10-----	GMT to nearest tenth of an hour.
YEAR -----	Year.
ORIGINATOR'S CRUISE NUMBER -----	Alphabetic or alpha-numeric designator as assigned by the originator. If the year of the cruise forms part of the cruise numbering system, the year digits are found in preceding field.
STATION NUMBER-----	Originator's station number or designator.
DEPTH TO BOTTOM-----	Corrected or uncorrected sounding depth in meters.
MAX. DEPTH OF SAMPLES -----	Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.
WAVE OBSERVATIONS:	
DIR. -----	Direction from which the dominant waves are coming, in tens of degrees, according to WMO Code 0885.
HGT. -----	Height of dominant waves according to WMO Code 1555.
PER. -----	Period of dominant waves according to WMO Code 3155.
SEA AMT-----	Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).
WEATHER CODE-----	If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit entry indicates weather according to WMO Code 4677.
*INSTR./CLOUD -----	This field is used either for recording instrument code when electronically obtained data are being reported, or for reporting cloud type and cloud amount when conventional Nansen cast data are being reported.
*INSTR -----	A two character code representing instrument package of system.
TYPE -----	Cloud type according to WMO Code 0500.
AMT -----	Cloud amount according to WMO Code 2700.
NODC STATION NUMBER-----	Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity and Station numbers combined, uniquely define each station in the NODC archives.
*DT/*S <sup>U</sup> / <sub>D</sub> -----	This indicator specifies that the reported data have been obtained electronically rather than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically obtained serial data and specify that the data were taken while hoisting or lowering respectively.
WATER COLOR-----	Water color according to Forel-Ule Code.
TRANS. (m)-----	Water transparency in meters as determined by Secchi disc.
WIND:	
DIR -----	Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.
SPEED OR FORCE----	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in Beaufort code.
BAROMETER (mbs)-----	Barometric pressure in millibars; tens, units, and tenths places only.



AIR TEMPERATURE °C:

- DRY BULB\_\_\_\_\_ Dry bulb air temperature in degrees centigrade, to tenths.
- WET BULB\_\_\_\_\_ Wet bulb air temperature in degrees centigrade, to tenths.
- VIS CODE\_\_\_\_\_ Visibility according to WMO Code 4300.
- NUMBER OBS. LEVEL\_\_\_\_ The number of observed levels associated with the station.
- SPECIAL
- OBSERVATIONS \_\_\_\_\_ Entries in this space vary with individual cruises or stations. Information concerning entries in this field can be requested from the NODC.

**2. A complete description of the codes can be found in NODC publication M-2 (Rev. August 1964), "Processing Physical and Chemical Data from Oceanographic Stations."**

TABLE I. Observed and interpolated oceanographic data for stations taken by USCGC ESCANABA at Ocean Station DELTA, 15 July-2 August 1966, prepared from NODC listing No. 31-699 EN.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	699	EN	43462N	040435W	149	30	07	15	142	1966	050	001	4902	14	24	2	2	X1	0	1	0001
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB	VIS. CODE											
					15	S	12	280	222	206	7	15									
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	ST C				
		STD	0000	2009	3497	2473	0032204	0000	15223												
142		OBS	0000	2009	34969	2473			15223												
		STD	0010	1907	3547	2538	0026082	0029	15203												
		STD	0020	1824	3585	2588	0021361	0053	15185												
142		OBS	0024	1796	35969	2604			15179												
		STD	0030	1769	3608	2619	0018430	0073	15174												
142		OBS	0049	1693	36308	2655			15157												
		STD	0050	1690	3630	2655	0015079	0106	15156												
		STD	0075	1616	3619	2664	0014301	0143	15137												
142		OBS	0097	1563	36115	2671			15123												
		STD	0100	1557	3611	2672	0013672	0178	15122												
		STD	0125	1512	3604	2676	0013293	0212	15111												
142		OBS	0144	1484	36002	2680			15105												
		STD	0150	1477	3599	2680	0012994	0245	15103												
142		OBS	0193	1437	35941	2685			15097												
		STD	0200	1436	3594	2685	0012652	0309	15098												
142		OBS	T0241	1414	35913	2688			15097												
		STD	0250	1404	3590	2689	0012430	0371	15095												
142		OBS	0287	1358	35828	2693			15085												
		STD	0300	1335	3577	2694	0012123	0433	15079												
142		OBS	0379	1223	35522	2697			15051												
		STD	0400	1219	3552	2697	0011988	0553	15053												
142		OBS	T0474	1153	35489	2708			15042												
		STD	0500	1097	3541	2712	0010734	0667	15026												
142		OBS	0568	0956	35238	2723			14984												
		STD	0600	0879	3517	2730	0008966	0765	14960												
		STD	0700	0685	3500	2746	0007413	0847	14900												
142		OBS	0754	0608	34952	2753			14878												
		STD	0800	0574	3496	2758	0006295	0916	14872												
		STD	0900	0515	3497	2766	0005559	0975	14865												
142		OBS	0940	0497	34980	2768			14864												
		STD	1000	0488	3499	2770	0005194	1029	14870												
		STD	1100	0471	3500	2773	0005001	1080	14880												
142		OBS	1175	0457	35007	2775			14887												
		STD	1200	0452	3500	2775	0004842	1129	14889												
		STD	1300	0431	3498	2776	0004814	1177	14897												
		STD	1400	0409	3494	2775	0004914	1226	14904												
142		OBS	T1407	0407	34936	2775			14904												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER	
CTRY CODE	ID. NO.					16°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA
31	699	EN	4400 N	04132 W		149	41	07	16	132	1966	OSD	002	8650	15	23	3	3	X1	2	6	0002
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
								17	S17	264	206	217	7	15								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta \sigma$ DYN. M $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ol/l}$	pH	SIC					
		STD	0000	2043	3513	2476	0031934	0000	15234													
132		OBS	0000	2043	35125	2476			15234													
		STD	0010	1868	3537	2540	0025863	0029	15191													
		STD	0020	1741	3560	2589	0021236	0052	15158													
132		OBS	0023	1712	35661	2601			15151													
		STD	0030	1684	3582	2620	0018368	0072	15146													
132		OBS	0045	1631	36070	2652			15135													
		STD	0050	1620	3606	2653	0015255	0106	15132													
		STD	0075	1567	3601	2662	0014538	0143	15120													
		STD	0100	1522	3597	2669	0013940	0179	15109													
132		OBS	0104	1515	35961	2670			15107													
		STD	0125	1483	3595	2676	0013336	0213	15101													
132		OBS	0141	1461	35930	2679			15096													
		STD	0150	1453	3591	2679	0013075	0246	15095													
132		OBS	0190		35846																	
		STD	0200	1406	3583	2683	0012836	0311	15087													
132		OBS	T0246	1358	35761	2688			15078													
		STD	0250	1353	3575	2688	0012490	0374	15077													
132		OBS	0286	1313	35697	2692			15069													
		STD	0300	1308	3570	2693	0012125	0435	15069													
132		OBS	0380	1279	35688	2699			15073													
		STD	0400	1254	3563	2699	0011821	0555	15067													
132		OBS	T0480	1092	35388	2711			15021													
		STD	0500	1024	3531	2717	0010170	0665	14999													
132		OBS	0540	0903	35180	2727			14959													
		STD	0600	0804	3511	2737	0008219	0757	14931													
		STD	0700	0670	3503	2750	0006976	0833	14894													
132		OBS	T0756	0612	34988	2755			14880													
		STD	0800	0584	3499	2758	0006225	0899	14876													
		STD	0900	0530	3499	2765	0005624	0958	14871													
132		OBS	0956	0505																		
		STD	1000	0494	3499	2769	0005266	1013	14873													
		STD	1100	0470	3499	2772	0005068	1064	14880													
		STD	1200	0449	3499	2774	0004898	1114	14888													
132		OBS	1221	0445	34987	2775			14890													
		STD	1300	0431	3498	2776	0004814	1163	14897													
		STD	1400	0415	3497	2777	0004773	1211	14907													
132		OBS	1493	0403	34964	2778			14917													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	TIME 10 <sup>00</sup>	MARS DEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE NO.	STATION NUMBER					CRUISE NO.	STATION NUMBER	MO	DAY	HR. /10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	699	EN	44045N	040365W	149	40	07	17	142	1966	OSD	003	4846	07	21	4	3	X5	7	6	0003	
WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTH		SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. (m)		DIR. SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE												
21		S20		217		222		211		7		15										
MESSAGE TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\frac{\Delta \rho}{\rho}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	S C C					
		STD	0000	1872	3427	2455	0033928	0000	15177													
142		OBS	0000	1872	34268	2455			15177													
		STD	0010	1736	3586	2611	0019182	0027	15158													
142		OBS	0010	1736	35862	2611			15158													
142		OBS	0017	1652	36129	2651			15138													
		STD	0020	1621	3610	2656	0014889	0044	15128													
		STD	0030	1541	3599	2666	0013982	0058	15104													
142		OBS	0033	1525	35961	2667			15099													
		STD	0050	1514	3581	2658	0014782	0087	15096													
142		OBS	0055	1510	35772	2656			15096													
		STD	0075	1490	3569	2654	0015228	0124	15092													
142		OBS	0078		35684																	
		STD	0100	1465	3563	2655	0015219	0162	15087													
142		OBS	T0103	1462	35626	2656			15086													
		STD	0125	1477	3570	2658	0015033	0200	15096													
142		OBS	0129	1478	35713	2659			15097													
		STD	0150	1468	3571	2661	0014847	0238	15097													
142		OBS	0184	1437	35673	2665			15092													
		STD	0200	1401	3561	2667	0014339	0310	15082													
142		OBS	T0241	1344	35522	2673			15069													
		STD	0250	1345	3553	2673	0013935	0381	15071													
		STD	0300	1351	3555	2673	0014044	0451	15082													
142		OBS	0302	1351	35551	2673			15082													
		STD	0400	1280	3549	2683	0013349	0588	15074													
142		OBS	T0408	1269	35471	2684			15071													
		STD	0500	1081	3514	2694	0012420	0717	15017													
142		OBS	0518	1043	35088	2696			15006													
		STD	0600	0864	3489	2711	0010780	0833	14951													
142		OBS	T0644	0768	34805	2719			14920													
		STD	0700	0645	3472	2729	0008906	0931	14880													
142		OBS	T0736	0566	34684	2737			14854													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER					
CITY CODE	IO. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER	SEA	TYPE	AMT
		WATER		WIND		AIR TEMP. °C																		
		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS		BARO-METER (mb)		VIS. CODE																	
		15	S05		237		206		167		7		13											
MESSAGE TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-107	Σ Δ σ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C							
		STD	0000	2133	3537	2470	0032505	0000	15261															
135		OBS	0000	2133	35367	2470			15261															
		STD	0010	1973	3566	2535	0026332	0029	15223															
		STD	0020	1847	3590	2586	0021547	0053	15192															
		STD	0030	1755	3609	2623	0018032	0073	15170															
134		OBS	0032	1741	36119	2629			15166															
		STD	0050	1720	3628	2647	0015910	0107	15165															
134		OBS	0064	1697	36352	2658			15161															
		STD	0075	1661	3629	2661	0014578	0145	15152															
		STD	0100	1588	3617	2669	0013910	0181	15132															
		STD	0125	1526	3607	2676	0013374	0215	15116															
134		OBS	0128	1519	36063	2677			15114															
		STD	0150	1514	3605	2677	0013333	0248	15116															
		STD	0200	1495	3602	2679	0013278	0315	15118															
		STD	0250	1466	3600	2683	0013005	0381	15116															
		STD	0300	1428	3597	2689	0012554	0444	15112															
134		OBS	0320	1410	35960	2692			15109															
134		OBS	0386	1340	35811	2696			15095															
		STD	0400	1339	3581	2696	0012189	0568	15097															
		STD	0500	1266	3568	2701	0011954	0689	15088															
134		OBS	0514	1247	35656	2702			15083															
		STD	0600	1061	3537	2715	0010609	0802	15029															
134		OBS	T0643	0973	35261	2722			15003															
		STD	0700	0856	3516	2733	0008858	0899	14968															
134		OBS	0773	0728	35063	2745			14930															
		STD	0800	0691	3504	2748	0007361	0980	14919															
		STD	0900	0573	3499	2760	0006191	1048	14888															
		STD	1000	0489	3495	2767	0005480	1106	14870															
134		OBS	1028	0471	34946	2769			14867															
		STD	1100	0458	3496	2771	0005111	1159	14874															
		STD	1200	0442	3497	2774	0004932	1209	14885															
134		OBS	1283	0429	34971	2775			14893															
		STD	1300	0426	3497	2776	0004822	1258	14895															
		STD	1400	0410	3496	2777	0004781	1306	14905															
		STD	1500	0397	3495	2777	0004774	1354	14916															
134		OBS	1608	0386	34942	2778			14929															
		STD	1750	0376	3494	2779	0004760	1473	14949															
134		OBS	T1927	0372	34944	2779			14978															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. INSTR.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMP'L'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	699	EN	44000N	041117W	149	41	07	19	135	1966	0SD	005	4846	12	06	2	2	X1	6	5	0005	
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE									
						14	508	230	194	172	7	15										
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S.C.C.					
		STD	0000	2093	3541	2484	0031153	0000	15251													
134		OBS	0000	2093	35410	2484			15251													
		STD	0010	2108	3538	2478	0031761	0031	15256													
		STD	0020	2122	3536	2472	0032378	0064	15261													
135		OBS	0020	2122	35355	2472			15261													
		STD	0030	1964	3552	2527	0027193	0093	15222													
135		OBS	0041	1827	35691	2575			15188													
		STD	0050	1779	3586	2600	0020330	0141	15177													
		STD	0075	1672	3618	2650	0015626	0186	15154													
135		OBS	0080	1656	36211	2657			15150													
		STD	0100	1648	3618	2656	0015176	0224	15150													
135		OBS	0123	1583	36141	2668			15134													
		STD	0125	1568	3611	2669	0013990	0261	15129													
		STD	0150	1417	3577	2676	0013354	0295	15081													
135		OBS	0154	1399	35733	2677			15076													
		STD	0200	1339	3567	2685	0012654	0360	15063													
135		OBS	T0205	1334	35662	2685			15062													
135		OBS	0242	1313	35656	2689			15061													
		STD	0250	1312	3566	2690	0012309	0422	15062													
		STD	0300	1308	3572	2695	0011978	0483	15069													
135		OBS	0320	1306	35737	2697			15072													
		STD	0400	1120	3536	2704	0011280	0599	15017													
135		OBS	T0401	1118	35359	2704			15016													
135		OBS	0479	0970	35246	2721			14975													
		STD	0500	0917	3519	2726	0009241	0702	14958													
		STD	0600	0707	3500	2743	0007575	0786	14892													
135		OBS	T0648	0631	34944	2749			14869													
		STD	0700	0574	3495	2757	0006245	0855	14855													
		STD	0800	0496	3496	2767	0005270	0913	14840													
135		OBS	0802	0495	34960	2767			14840													
		STD	0900	0479	3498	2770	0005030	0964	14850													
		STD	1000	0462	3500	2774	0004788	1013	14860													
135		OBS	1002	0462	34997	2774			14860													
		STD	1100	0439	3499	2776	0004645	1060	14867													
		STD	1200	0411	3497	2777	0004533	1106	14872													
135		OBS	T1211	0408	34962	2777			14872													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DINCH INDEX	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	STA		TRP	AMT	
31	699	EN	44000N	041000W	149	41	07	20	136	1966	OSD	006	4938	17	12	2	2	X1	8	2			0006
						WATER		WIND		BARO-	AIR TEMP. °C		VIS.	NO.	SPECIAL								
						COLOR	TRANSP.	DIR.	SPEED	METER	DRY	WET	CODE	OBS.	OBSERVATIONS								
						16	S12	254	228	217	7	15											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SI O <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C						
		STD	0000	2142	3549	2477	0031844	0000	15265														
128		OBS	0000	2142	35491	2477			15265														
		STD	0010	2128	3551	2482	0031402	0032	15263														
		STD	0020	2115	3553	2487	0030964	0063	15262														
128		OBS	0028	2104	35538	2491			15260														
		STD	0030	2068	3556	2503	0029533	0093	15251														
		STD	0050	1763	3577	2597	0020610	0143	15172														
128		OBS	0056	1693	35812	2617			15152														
		STD	0075	1630	3584	2634	0017130	0190	15137														
		STD	0100	1550	3589	2656	0015145	0231	15117														
128		OBS	0112	1512	35907	2666			15107														
		STD	0125	1457	3581	2671	0013813	0267	15091														
		STD	0150	1378	3567	2677	0013293	0301	15067														
128		OBS	0167	1344	35618	2680			15058														
		STD	0200	1346	3567	2684	0012794	0366	15065														
128		OBS	0223	1347	35700	2686			15070														
		STD	0250	1348	3577	2691	0012245	0429	15075														
128		OBS	T0297	1350	35793	2692			15084														
		STD	0300	1347	3579	2693	0012218	0490	15083														
128		OBS	0336	1302	35721	2696			15073														
		STD	0400	1194	3551	2701	0011551	0609	15045														
128		OBS	0448	1116	35386	2707			15024														
		STD	0500	1048	3531	2713	0010590	0719	15007														
128		OBS	0562	0943	35196	2722			14978														
		STD	0600	0839	3508	2730	0008987	0817	14944														
128		OBS	0679	0670	34927	2742			14890														
		STD	0700	0655	3494	2745	0007455	0899	14887														
		STD	0800	0592	3498	2757	0006394	0969	14879														
		STD	0900	0539	3502	2767	0005479	1028	14875														
128		OBS	T0904	0537	35026	2767			14875														
		STD	1000	0497	3500	2770	0005217	1082	14874														
		STD	1100	0464	3497	2771	0005115	1133	14877														
136		OBS	1134	0454	34967	2772			14878														
		STD	1200	0443	3497	2773	0004982	1184	14885														
		STD	1300	0428	3496	2775	0004907	1233	14895														
		STD	1400	0414	3496	2776	0004840	1282	14906														
136		OBS	T1428	0410	34958	2776			14909														
		STD	1500	0401	3495	2777	0004827	1330	14918														
136		OBS	1718	0376	34923	2777			14944														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC INCLIN.	MAGNETIC SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TFR		AMT
						10'	1'	MO	DAY	HR. 1/10													
31	699	EN	44107N	040546W	149	40	07	21	139	1966	OSD	007	4755	14	11	2	3	X1	1	4	0007		
		WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
					13	S13	332	228	211	7	14												
MESSAGING TIME OF HR 1/10	CASSETTE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ σ TYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	ST. CODE						
		STD	0000	2158	3536	2464	0033068	0000	15268														
139		OBS	0000	2158	35380	2464			15268														
		STD	0010	2136	3547	2477	0031886	0032	15265														
		STD	0020	2115	3557	2491	0030636	0064	15262														
139		OBS	0025	2104	35623	2498			15261														
		STD	0030	2007	3569	2529	0027039	0093	15236														
		STD	0050	1704	3591	2622	0018248	0138	15156														
139		OBS	0050	1704	35908	2622			15156														
		STD	0075	1611	3593	2645	0016098	0181	15132														
139		OBS	0099	1537	35948	2664			15113														
		STD	0100	1534	3594	2664	0014415	0219	15113														
		STD	0125	1475	3586	2671	0013824	0254	15097														
139		OBS	0149	1431	35798	2675			15086														
		STD	0150	1430	3580	2676	0013402	0288	15086														
		STD	0200	1398	3580	2683	0012892	0354	15084														
139		OBS	0247	1372	35806	2689			15083														
		STD	0250	1371	3581	2689	0012443	0417	15083														
139		OBS	0295	1351	35804	2693			15084														
		STD	0300	1348	3580	2693	0012162	0479	15084														
139		OBS	0391	1283	35708	2699			15076														
		STD	0400	1260	3567	2701	0011646	0598	15069														
139		OBS	T0485	1040	35325	2715			15002														
		STD	0500	0997	3527	2719	0009996	0706	14988														
139		OBS	0575	0806	35050	2732			14927														
		STD	0600	0750	3504	2740	0007913	0796	14909														
		STD	0700	0583	3502	2761	0005842	0864	14860														
139		OBS	T0748	0537	35012	2766			14849														
		STD	0800	0517	3501	2769	0005149	0919	14849														
139		OBS	0822	0509	35014	2770			14850														
		STD	0900	0493	3501	2771	0004977	0970	14856														
		STD	1000	0474	3500	2773	0004916	1019	14865														
		STD	1100	0455	3499	2774	0004851	1068	14874														
139		OBS	T1176	0441	34984	2775			14880														
		STD	1200	0437	3498	2775	0004793	1117	14883														
		STD	1300	0420	3497	2776	0004744	1164	14892														
		STD	1400	0403	3495	2776	0004762	1212	14902														
139		OBS	1445	0396	34939	2776			14906														



TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARSden SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR.		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	699	EN	44200N	041050W	149	41	07	22	207	1966	OSD	008	4938	14	07	3	2	X1	8	6	0008	
						WATER		WIND		BARO-METER	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (M)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB	VIS CODE										
							07	S14	362	200	183	7	12									
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDALMT-RTD	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S.C.C.					
207		OBS	0000	2119	3490	2438	0035547	0000	15252													
		STD	0010	2102	3536	2478	0031787	0034	15255													
		STD	0020	2085	3569	2508	0028997	0064	15256													
207		OBS	0023	2080	35766	2515			15256													
		STD	0030	1924	3583	2561	0023958	0091	15215													
207		OBS	0045	1673	35950	2632			15146													
		STD	0050	1664	3598	2637	0016819	0131	15145													
		STD	0075	1617	3609	2656	0015051	0171	15136													
207		OBS	0090	1589	36115	2665			15130													
		STD	0100	1570	3610	2668	0014027	0207	15126													
		STD	0125	1521	3603	2674	0013558	0242	15114													
207		OBS	0135	1501	35989	2675			15108													
		STD	0150	1458	3588	2676	0013398	0276	15096													
207		OBS	0174		35728																	
		STD	0200	1328	3561	2683	0012875	0341	15058													
207		OBS	0227	1387P	3554P	2665P																
		STD	0250	1214	3543	2691	0012130	0404	15026													
207		OBS	0273	1168	35363	2695			15013													
		STD	0300	1125	3533	2701	0011350	0463	15002													
207		OBS	0364	1020	35243	2713			14974													
		STD	0400	0959	3518	2718	0009802	0568	14957													
207		OBS	T0460	0856	35094	2728			14927													
		STD	0500	0782	3506	2737	0008074	0658	14905													
207		OBS	0549	0703	35027	2746			14882													
		STD	0600	0634	3499	2752	0006617	0731	14863													
		STD	0700	0533	3495	2762	0005699	0793	14838													
207		OBS	0730	0511	34944	2764			14834													
		STD	0800	0491	3495	2767	0005251	0848	14838													
		STD	0900	0466	3497	2771	0004949	0899	14844													
207		OBS	0911	0464	34969	2771			14845													
		STD	1000	0447	3497	2773	0004792	0947	14853													
		STD	1100	0430	3497	2775	0004678	0995	14863													
207		OBS	1142	0423	34973	2776			14867													
		STD	1200	0414	3497	2777	0004571	1041	14873													
		STD	1300	0399	3496	2778	0004546	1086	14883													
207		OBS	T1364	0390	34945	2777			14890													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA		TYPE	AMT.	
31	699	EN	42400N	042410W	149	22	07	23	140	1966	050	009	6035	09	07	3	3		X1	1	3	0009		
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						CDLR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
							05	S14	342	222	188	7	14											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-197	$\Sigma \Delta \sigma$ DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	S C							
		STO	0000	2163	3611	2519	0027894	0000	15278															
132		OBS	0000	2163	36114	2519			15278															
		STD	0010	2121	3611	2530	0026892	0027	15268															
		STO	0020	2079	3610	2540	0025903	0054	15259															
132		OBS	0020	2079	36096	2540			15259															
		STO	0030	1836	3616	2609	0019432	0076	15194															
132		OBS	0039	1669	36192	2652			15147															
		STO	0050	1626	3616	2660	0014660	0111	15135															
		STO	0075	1551	3611	2673	0013463	0146	15116															
132		OBS	0080	1540	36102	2675			15113															
		STO	0100	1516	3610	2680	0012835	0179	15109															
132		OBS	0121	1500	36107	2684			15107															
		STO	0125	1500	3611	2685	0012518	0210	15108															
		STO	0150	1497	3613	2686	0012414	0241	15111															
132		OBS	0154	1496	36129	2687			15112															
		STO	0200	1493	3614	2688	0012408	0303	15118															
132		OBS	T0201	1493	36138	2688			15119															
132		OBS	0238	1487	36128	2689			15123															
		STO	0250	1485	3612	2689	0012519	0366	15124															
		STO	0300	1477	3610	2689	0012645	0429	15129															
132		OBS	0316	1474	36092	2689			15131															
132		OBS	T0393	1458	36070	2691			15138															
		STO	0400	1457	3607	2691	0012738	0556	15139															
132		OBS	0470	1443	36051	2692			15146															
		STO	0500	1436	3604	2693	0012804	0683	15148															
		STO	0600	1405	3598	2695	0012874	0812	15154															
140		OBS	0618	1398	35963	2695			15155															
		STO	0700	1393	3593	2694	0013266	0942	15166															
140		OBS	0763	1329	35818	2698			15154															
		STO	0800	1266	3572	2704	0012445	1071	15138															
		STO	0900	1006	3534	2723	0010501	1186	15059															
140		OBS	0928	0909	35206	2728			15026															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METERS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA
WATER		WIND		BARO-METER (mbal)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
		05	S09	328	200	194	7	15														
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \theta$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO <sub>4</sub> -S $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S.C.C.					
		STD	0000	1898	3393	2423	0037001	0000	15180													
135		OBS	0000	1898	33931	2423			15180													
		STD	0010	1805	3500	2528	0027053	0032	15168													
		STD	0020	1702	3567	2604	0019834	0055	15147													
135		OBS	0022	1680	35749	2615			15142													
		STD	0030	1561	3562	2633	0017110	0074	15106													
135		OBS	0047	1368	35421	2660			15044													
		STD	0050	1358	3542	2662	0014439	0105	15041													
		STD	0075	1290	3541	2675	0013242	0140	15023													
135		OBS	0095	1254	35406	2682			15014													
		STD	0100	1253	3541	2682	0012620	0172	15014													
		STD	0125	1246	3545	2687	0012260	0204	15017													
135		OBS	0143	1238	35457	2689			15017													
		STD	0150	1233	3546	2690	0012032	0234	15016													
135		OBS	0181		35451																	
		STD	0200	1195	3544	2696	0011579	0293	15011													
135		OBS	T0238	1166	35415	2699			15007													
		STD	0250	1110	3532	2702	0011035	0349	14988													
135		OBS	0281	0975	35094	2709			14942													
		STD	0300	0889	3497	2713	0010012	0402	14912													
135		OBS	0369	0677	34738	2726			14839													
		STD	0400	0668	3482	2734	0008044	0492	14841													
135		OBS	T0458	0639	34925	2746			14841													
		STD	0500	0600	3494	2753	0006387	0565	14832													
135		OBS	0546	0564	34950	2758			14826													
		STD	0600	0538	3496	2762	0005565	0624	14824													
		STD	0700	0497	3497	2768	0005093	0678	14824													
135		OBS	T0726	0488	34973	2769			14825													
		STD	0800	0469	3497	2771	0004856	0727	14829													
		STD	0900	0448	3497	2773	0004701	0775	14837													
135		OBS	0909	0446	34969	2773			14838													
		STD	1000	0436	3497	2775	0004653	0822	14849													
		STD	1100	0424	3497	2776	0004602	0868	14860													
135		OBS	T1147	0418	34973	2777			14866													
		STD	1200	0412	3497	2777	0004546	0914	14872													
		STD	1300	0399	3496	2778	0004546	0959	14883													
135		OBS	T1387	0388	34945	2778			14893													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT PER	SEA	TYPE		AMT		
31	699	EN	44120N	040460W		149	40	07	25	137	1966	OSD	011	5148	15	07	3	3	X1	8	6	0011	
				WATER		WIND			BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB													
						07		514	287	205	183	7	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	S Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C						
		STD	0000	2134	3526	2461	0033334	0000	15260														
	129	OBS	0000	2134	35256	2461			15260														
		STD	0010	1994	3523	2497	0029943	0032	15224														
		STD	0020	1871	3521	2527	0027124	0060	15191														
	129	OBS	0028	1786	35193	2547			15168														
		STD	0030	1767	3526	2557	0024343	0086	15163														
		STD	0050	1612	3580	2635	0016972	0127	15127														
	129	OBS	0054	1588	35879	2647			15121														
		STD	0075	1545	3588	2657	0015018	0167	15111														
		STD	0100	1499	3588	2667	0014107	0204	15101														
	129	OBS	0108	1486	35880	2670			15098														
		STD	0125	1462	3587	2674	0013480	0238	15093														
		STD	0150	1428	3585	2680	0012996	0271	15086														
	129	OBS	0162	1412	35833	2682			15083														
		STD	0200	1363	3576	2687	0012476	0335	15072														
		STD	0250	1297	3565	2692	0012111	0396	15057														
	137	OBS	T0269	1271	35600	2693			15051														
		STD	0300	1255	3551	2690	0012454	0458	15049														
	137	OBS	0322	1240P	35450	2688P																	
		STD	0400	1115	3535	2704	0011263	0576	15015														
	137	OBS	0434	1036	35280	2713			14992														
		STD	0500	0820	3506	2731	0008653	0676	14920														
	137	OBS	T0519	0770	35011	2735			14903														
		STD	0600	0620	3491	2748	0007017	0754	14856														
	137	OBS	0620	0593	34899	2750			14849														
		STD	0700	0562	3495	2758	0006108	0820	14850														
		STD	0800	0525	3500	2767	0005319	0877	14852														
	137	OBS	T0805	0523	35007	2767			14853														
		STD	0900	0483	3500	2771	0004959	0928	14852														
		STD	1000	0456	3498	2773	0004810	0977	14857														
	137	OBS	1004	0455	34982	2773			14857														
		STD	1100	0456	3497	2772	0005012	1026	14874														
		STD	1200	0457	3497	2772	0005132	1077	14891														
	137	OBS	1265	0458	34962	2771			14902														
		STD	1300	0453	3496	2772	0005252	1129	14906														
		STD	1400	0432	3495	2773	0005145	1181	14914														
		STD	1500	0400	3495	2777	0004813	1231	14917														
	137	OBS	T1535	0386	34947	2778			14917														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE (AM)	NODC STATION NUMBER	
CIR CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
31	699	EN	44125N	041020W		149	41	07	26	194	1966	050	012	4389	11	09	3	3	X1	0	2	0012
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	FAKE (M)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB	VIS. CODE												
				09	517	244		206	194	8			14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (M)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SI O <sub>2</sub> -SI $\mu\text{g} - \text{at/l}$	pH	CLD					
		STD	0000	2138	3508	2447	0034733	0000	15259													
194		OBS	0000	2138	35077	2447			15259													
		STD	0010	2138	3521	2457	0033809	0034	15262													
		STD	0020	2137	3534	2467	0032881	0068	15265													
194		OBS	0021	2137	35353	2468			15266													
		STD	0030	1658	3509	2570	0023099	0096	15129													
194		OBS	0040	1210	34859	2648			14983													
		STD	0050	1208	3495	2655	0015022	0134	14985													
		STD	0075	1202	3513	2671	0013651	0170	14989													
		STD	0100	1195	3526	2682	0012647	0202	14993													
		STD	0125	1189	3532	2688	0012158	0233	14995													
194		OBS	0130	1188	35326	2688			14996													
		STD	0150	1173	3532	2691	0011925	0264	14994													
194		OBS	0172	1125	35276	2696			14980													
		STD	0200	1000	3512	2706	0010496	0320	14938													
194		OBS	T0208	0974	35092	2709			14930													
194		OBS	0246	0909	35049	2716			14911													
		STD	0250	0907	3505	2717	0009574	0370	14911													
		STD	0300	0879	3511	2726	0008792	0416	14910													
194		OBS	0316	0870	35133	2729			14909													
194		OBS	T0381	0707	34969	2741			14855													
		STD	0400	0681	3496	2743	0007187	0496	14848													
194		OBS	0448	0626	34937	2749			14834													
		STD	0500	0588	3496	2756	0006081	0562	14828													
194		OBS	T0576	0546	34994	2764			14824													
		STD	0600	0539	3500	2765	0005298	0619	14825													
		STD	0700	0510	3502	2770	0004921	0670	14830													
194		OBS	0701	0510	35016	2770			14830													
		STD	0800	0472	3501	2774	0004597	0717	14831													
194		OBS	T0885	0448	35006	2776			14835													
		STD	0900	0444	3500	2776	0004429	0763	14836													
		STD	1000	0427	3500	2778	0004320	0806	14845													
194		OBS	T1094	0419	34986	2778			14858													

TABLE I.—Continued

REFERENCE CST CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	W MO D	MARS DEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
						10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT								
31	699	EN	44090N	041000W	149	41	07	27	129	1966	050	013	4846	14	14	5	4	X1	8	6	0013									
																						WATER	WIND	BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
		COLOR CODE	TRANL MI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																							
				09	517	224	211	206	8	14																				
MESSAGE TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	T CODE													
	129	STD	0000	2048	3401	2390	0040153	0000	15223																					
		OBS	0000	2048	34008	2390			15223																					
		STD	0010	2016	3459	2443	0035162	0038	15222																					
		STD	0020	1956	3504	2492	0030460	0070	15213																					
	129	OBS	0020	1956	35037	2492			15213																					
		STD	0030	1720	3502	2550	0025021	0098	15147																					
		STD	0050	1348	3498	2630	0017458	0141	15033																					
		STD	0075	1070	3493	2680	0012765	0178	14941																					
	129	OBS	0078	1051	34928	2683			14934																					
		STD	0100	1072	3503	2687	0012150	0210	14947																					
	129	OBS	0117	1073	35090	2691			14950																					
		STD	0125	1063	3510	2694	0011516	0239	14948																					
		STD	0150	1032	3515	2703	0010728	0267	14942																					
	129	OBS	0156	1024	35155	2705			14940																					
		STD	0200	0796	3479	2714	0009745	0318	14858																					
	129	OBS	T0202	0789	34781	2714			14855																					
	129	OBS	0240	0695	34763	2726			14825																					
		STD	0250	0694	3479	2728	0008390	0364	14826																					
		STD	0300	0679	3487	2737	0007670	0404	14830																					
	129	OBS	0322	0667	34898	2740			14829																					
		STD	0400	0589	3490	2751	0006402	0474	14811																					
	129	OBS	T0411	0580	34904	2752			14809																					
	129	OBS	0495	0529	34932	2761			14803																					
		STD	0500	0527	3493	2761	0005503	0534	14803																					
		STD	0600	0493	3496	2767	0005024	0586	14806																					
	129	OBS	T0671	0474	34974	2771			14810																					
		STD	0700	0469	3498	2772	0004672	0635	14813																					
		STD	0800	0453	3498	2773	0004584	0681	14823																					
	129	OBS	0845	0446	34985	2775			14827																					
		STD	0900	0436	3498	2775	0004478	0726	14832																					
		STD	1000	0419	3497	2776	0004442	0771	14842																					
	129	OBS	T1091	0406	34965	2777			14851																					
		STD	1100	0405	3496	2777	0004437	0815	14852																					
		STD	1200	0393	3496	2778	0004380	0859	14864																					
		STD	1300	0384	3495	2778	0004429	0903	14877																					
	129	OBS	T1358	0380	34941	2778			14885																					

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEH SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.			
31	699	EN	44030N	040490W	149	40	07 28	132	1966	050	014	4599	11	07	4	2	X1	5 6	0014
						WATER		WIND		BARO-METER		AIR TEMP. °C							
						COLD DR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
							08	520	173	217	211	7	15						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SI O <sub>2</sub> -SI μg - dl/l	pH	SI CODE		
		STD	0000	2110	3549	2486	0031008	0000	15257										
132		OBS	0000	2110	35491	2486			15257										
		STD	0010	2038	3551	2507	0029077	0030	15239										
		STD	0020	1953	3552	2530	0026863	0058	15218										
132		OBS	0028	1875	35536	2551			15197										
		STD	0030	1844	3549	2556	0024486	0084	15188										
		STD	0050	1595	3518	2592	0021117	0129	15114										
132		OBS	0055	1551	35153	2599			15101										
		STD	0075	1538	3554	2632	0017339	0177	15105										
		STD	0100	1493	3580	2662	0014564	0217	15098										
132		OBS	0103	1485	35809	2665			15096										
		STD	0125	1388	3564	2672	0013642	0252	15066										
		STD	0150	1306	3551	2679	0013038	0286	15042										
132		OBS	0150	1306	35510	2679			15042										
132		OBS	0192	1238	35438	2687			15025										
		STD	0200	1222	3542	2689	0012225	0349	15020										
132		OBS	T0231	1180	35399	2696			15011										
		STD	0250	1176	3542	2698	0011517	0408	15013										
132		OBS	0273	1171	35438	2700			15015										
		STD	0300	1036	3515	2703	0011106	0465	14968										
132		OBS	0378	0825	34857	2714			14899										
		STD	0400	0823	3498	2724	0009104	0566	14903										
132		OBS	0420	0821	35041	2729			14907										
132		OBS	0482	0653	34885	2741			14850										
		STD	0500	0635	3489	2744	0007210	0648	14846										
		STD	0600	0555	3493	2757	0006021	0714	14831										
132		OBS	T0606	0551	34930	2758			14830										
		STD	0700	0505	3496	2766	0005268	0770	14827										
132		OBS	0727	0494	34963	2767			14827										
		STD	0800	0473	3497	2770	0004906	0821	14831										
132		OBS	T0889	0453	34975	2773			14837										
		STD	0900	0451	3498	2773	0004701	0869	14838										
		STD	1000	0435	3498	2775	0004604	0916	14848										
		STD	1100	0426	3498	2776	0004590	0962	14861										
132		OBS	T1111	0425	34975	2776			14863										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.				10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
31	699	EN	43595N	041005W	149	31	07	29	132	1966	05D	015	4938	19	09	5	3	X1	5	6	0015
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB WET BULB		NO. OBS. DEPTHS											
				35		S19		125 222 221		8 15											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S	C			
		STD	0000	2222	3581	2479	0031702	0000	15289												
132		OBS	0000	2222	35805	2479			15289												
		STD	0010	2119	3585	2511	0028683	0030	15265												
		STD	0020	2019	3590	2542	0025786	0057	15240												
132		OBS	0029	1933	35956	2568			15219												
		STD	0030	1922	3597	2572	0022894	0082	15216												
		STD	0050	1734	3614	2632	0017250	0122	15168												
132		OBS	0058	1675	36174	2649			15152												
		STD	0075	1622	3609	2655	0015162	0162	15137												
		STD	0100	1554	3600	2664	0014408	0199	15119												
132		OBS	0117	1515	35958	2669			15110												
		STD	0125	1501	3595	2672	0013716	0235	15106												
		STD	0150	1460	3594	2680	0013002	0268	15097												
132		OBS	0175	1428	35916	2685			15091												
		STD	0200	1415	3590	2687	0012510	0332	15091												
132		OBS	0235	1382	35845	2690			15085												
		STD	0250	1354	3579	2691	0012218	0394	15077												
132		OBS	T0294	1290	35679	2696			15062												
		STD	0300	1289	3568	2696	0011908	0454	15063												
132		OBS	0356	1250	35632	2700			15058												
		STD	0400	1153	3546	2705	0011152	0569	15030												
132		OBS	0478	0966	35217	2720			14973												
		STD	0500	0890	3516	2728	0009023	0670	14947												
		STD	0600	0630	3496	2750	0006784	0749	14861												
132		OBS	T0605	0621	34955	2751			14858												
		STD	0700	0523	3492	2761	0005793	0812	14834												
132		OBS	0731	0499	34917	2763			14829												
		STD	0800	0487	3494	2766	0005303	0867	14836												
		STD	0900	0470	3496	2770	0005051	0919	14846												
132		OBS	T0988	0456	34969	2772			14855												
		STD	1000	0454	3497	2772	0004896	0969	14856												
		STD	1100	0437	3496	2773	0004862	1018	14866												
		STD	1200	0422	3495	2774	0004850	1066	14876												
132		OBS	1248	0415	34941	2774			14881												
		STD	1300	0408	3494	2775	0004809	1115	14887												
		STD	1400	0395	3493	2776	0004805	1163	14898												
		STD	1500	0385	3493	2777	0004763	1210	14911												
132		OBS	T1589	0377	34928	2777			14922												
		STD	1750	0367	3493	2779	0004734	1329	14945												
132		OBS	1927	0363	34934	2779			14974												



TABLE I.—Continued

REFERENCE CITY CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT DIRECTION	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES TYPE & HT	NODC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA				
31	699	EN	44020N	040550W	149	40	07	30	197	1966	05D	016	4938	13	23	3	2	X2	6	7	0016	
					WATER		WIND		BARO- METER			AIR TEMP. °C			SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS- MILL (M)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
							22	517	176	228	211	7	15									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CODE					
		STD	0000	2236	3457	2381	0040971	0000	15279													
197		OBS	0000	2236	34574	2381			15279													
		STD	0010	2190	3498	2425	0036844	0039	15273													
		STD	0020	2098	3529	2474	0032224	0073	15254													
197		OBS	0023	2062	35363	2489			15246													
		STD	0030	1914	3547	2536	0026323	0103	15208													
197		OBS	0046	1649	35647	2615			15135													
		STD	0050	1623	3565	2621	0018307	0147	15128													
		STD	0075	1500	3571	2654	0015293	0189	15095													
197		OBS	0092	1453	35768	2668			15083													
		STD	0100	1457	3582	2672	0013668	0226	15087													
		STD	0125	1470	3595	2679	0013061	0259	15097													
197		OBS	0139	1477	35978	2679			15101													
		STD	0150	1468	3597	2681	0012951	0291	15100													
197		OBS	0176	1439	35932	2684			15095													
		STD	0200	1395	3586	2688	0012393	0355	15084													
197		OBS	T0232	1344	35768	2692			15071													
		STD	0250	1319	3572	2693	0012032	0416	15065													
197		OBS	0275	1292	35672	2695			15059													
		STD	0300	1284	3567	2696	0011856	0476	15061													
197		OBS	0363	1264	35661	2699			15064													
		STD	0400	1177	3552	2706	0011159	0591	15039													
197		OBS	T0449	1060	35350	2714			15004													
		STD	0500	0930	3521	2725	0009308	0693	14963													
197		OBS	0528	0864	35140	2730			14942													
		STD	0600	0709	3502	2744	0007457	0777	14893													
197		OBS	T0691	0568	34934	2756			14851													
		STD	0700	0562	3493	2757	0006197	0845	14850													
		STD	0800	0501	3494	2764	0005518	0904	14842													
197		OBS	0861	0473	34936	2768			14840													
		STD	0900	0463	3494	2769	0005110	0957	14843													
		STD	1000	0441	3494	2772	0004937	1007	14850													
197		OBS	T1082	0426	34943	2773			14858													
		STD	1100	0423	3494	2774	0004788	1056	14860													
		STD	1200	0409	3494	2775	0004706	1103	14870													
		STD	1300	0398	3494	2776	0004658	1150	14883													
197		OBS	T1306	0398	34943	2776			14884													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MAGNETIC CORRECTION	MARSHALL SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		1966	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
31	699	EN	43475N	040395W	149	30	08	01	138	1966	05D	017	4901	15	27	6	5	X1	1	3	0017		
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE							
								27		S21		159		200		200		7		15			
MESSAGE TIME HR 1/10	CAST NO.	CARGO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D CYC. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C						
		STD	0000	2199	3573	2479	0031641	0000	15282														
138		OBS	0000	2199	35728	2479			15282														
		STD	0010	2189	3573	2482	0031408	0032	15282														
		STD	0020	2180	3577	2488	0030904	0063	15281														
138		OBS	0023	2177	35786	2490			15281														
		STD	0030	2082	3588	2523	0027580	0092	15259														
138		OBS	0046	1890	36039	2586			15211														
		STD	0050	1852	3604	2595	0020778	0140	15200														
		STD	0075	1649	3602	2644	0016251	0187	15145														
138		OBS	0095	1529	36012	2670			15111														
		STD	0100	1513	3601	2674	0013456	0224	15107														
		STD	0125	1440	3596	2686	0012366	0256	15087														
138		OBS	0143	1398	35922	2692			15076														
		STD	0150	1386	3590	2693	0011774	0286	15073														
138		OBS	0192	1326	35768	2695			15058														
		STD	0200	1314	3574	2696	0011649	0345	15055														
138		OBS	T0242	1273	35674	2699			15048														
		STD	0250	1273	3569	2700	0011358	0402	15049														
138		OBS	0289	1275	35714	2701			15057														
		STD	0300	1262	3569	2702	0011274	0459	15054														
138		OBS	0383	1157	35492	2707			15029														
		STD	0400	1133	3546	2709	0010785	0569	15023														
138		OBS	T0478	1015	35318	2719			14992														
		STD	0500	0973	3527	2723	0009587	0671	14980														
138		OBS	0576	0842	35145	2734			14942														
		STD	0600	0806	3513	2739	0008103	0759	14932														
		STD	0700	0674	3506	2752	0006813	0834	14896														
138		OBS	T0772	0595	35015	2759			14876														
		STD	0800	0568	3499	2761	0005993	0898	14870														
		STD	0900	0488	3494	2766	0005429	0955	14853														
138		OBS	0975	0446	34915	2769			14848														
		STD	1000	0444	3492	2770	0005123	1008	14851														
		STD	1100	0437	3494	2772	0004988	1058	14865														
		STD	1200	0427	3495	2774	0004885	1108	14878														
138		OBS	T1244	0423	34954	2775			14884														
		STD	1300	0417	3495	2775	0004844	1156	14891														
		STD	1400	0405	3494	2776	0004832	1205	14902														
		STD	1500	0392	3494	2777	0004796	1253	14914														
138		OBS	T1532	0387	34936	2777			14917														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICE	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	699	EN	43565N	040426W		149	30	08	02	182	1966	OSD	018	5084	24	27	2	3		X1	6	6	0018		
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	VIS. CODE													
								25	508	122	206	206	7	19											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMALT-2107	Σ Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>2</sub> -Si μg - ml/l	pH	S C								
		STD	0000	2189	3529	2449	0034518	0000	15275																
129		OBS	0000	2189	35293	2449			15275																
		STD	0010	2073	3553	2499	0029806	0032	15249																
		STD	0020	1966	3573	2543	0025686	0060	15224																
		STD	0030	1870	3589	2580	0022208	0084	15201																
129		OBS	0032			35915																			
		STD	0050	1709	3607	2633	0017184	0123	15159																
129		OBS	0062	1632	36139	2657			15139																
		STD	0075	1588	3609	2663	0014413	0163	15127																
		STD	0100	1518	3601	2673	0013563	0198	15108																
		STD	0125	1468	3596	2680	0012948	0231	15096																
129		OBS	0125	1468	35960	2680			15096																
		STD	0150	1456	3596	2683	0012773	0263	15096																
129		OBS	0187	1428	35937	2687			15093																
		STD	0200	1410	3590	2688	0012408	0326	15089																
		STD	0250	1353	3581	2693	0012044	0387	15077																
129		OBS	0250	1353	35811	2693			15077																
		STD	0300	1320	3577	2697	0011825	0447	15074																
129		OBS	T0312	1314	35766	2698			15074																
129		OBS	0376	1296	35752	2700			15078																
		STD	0400	1247	3566	2703	0011467	0563	15065																
		STD	0500	1050	3533	2714	0010450	0673	15008																
129		OBS	0500	1050	35334	2714			15008																
		STD	0600	0871	3515	2730	0008984	0770	14957																
129		OBS	0623	0825	35110	2734			14943																
		STD	0700	0637	3496	2749	0007025	0850	14880																
129		OBS	0748	0550	34896	2755			14853																
		STD	0800	0523	3490	2759	0006061	0915	14850																
		STD	0900	0486	3492	2765	0005550	0973	14852																
129		OBS	T0992	0466	34945	2769			14859																
		STD	1000	0466	3495	2770	0005182	1027	14861																
182		OBS	T1081	0461	34986	2773			14873																
		STD	1100	0457	3498	2773	0004951	1078	14874																
		STD	1200	0435	3496	2774	0004914	1127	14882																
129		OBS	1242	0427	34948	2774			14885																
		STD	1300	0418	3495	2775	0004886	1176	14891																
		STD	1400	0405	3494	2776	0004832	1225	14902																
		STD	1500	0393	3494	2777	0004780	1273	14914																
129		OBS	T1563	0386	34940	2777			14922																
182		OBS	1700	0373	34940	2779			14939																
		STD	1750	0372	3493	2778	0004801	1393	14947																
129		OBS	T1876	0368	34922	2778			14967																
		STD	2000	0364	3493	2779	0004894	1514	14986																
182		OBS	T2304	0349	34950	2782			15032																
182		OBS	T2352	0346	34953	2783			15039																

TABLE II. Observed and interpolated oceanographic data for stations taken by USCGC CAMPBELL at Ocean Station DELTA, 27 August-16 September 1966, prepared from NODC listing No. 31-762 CM.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSOEN 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	IG. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	762	CM	43472N	041118W	149	31	08	27	190	1966	OSD	001	4572	15	17	1	2	X1	3	6	0001		
		WATER		WIND		BARO-METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE	METER (mbars)		DRY BULB	WET BULB	VIS. CODE													
					27	S10	098	211	178	7	15												
MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}^t$			$\Sigma \Delta \sigma$ CYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S	C			
		STD	0000	2044																			
	190	OBS	0000	2044																			
		STD	0010	2036																			
		STD	0020	2027																			
	190	OBS	0026	2022																			
		STD	0030	1973																			
		STD	0050	1719																			
	190	OBS	0052	1693																			
		STD	0075	1290																			
		STD	0100	0994																			
	190	OBS	0101	0985	34921	2694						14914											
		STD	0125	0919	3493	2705				0010444		14894											
		STD	0150	0874	3494	2713				0009737		14881											
	190	OBS	0156	0867	3493R	2714						14879											
		STD	0200	0866	3505	2723				0008872		14888											
	190	OBS	0208	0866	35074	2725						14889											
		STD	0250	0833	3517	2737				0007605		14885											
	190	OBS	T0260	0817	35188	2742						14881											
		STD	0300	0714	3501	2743				0007115		14845											
	190	OBS	0308	0698	34987	2743						14840											
		STD	0400	0612	3499	2755				0006056		14821											
	190	OBS	0406	0607	34987	2755						14820											
		STD	0500	0529	3495	2762				0005379		14804											
	190	OBS	T0504	0526	34951	2763						14803											
		STD	0600	0481	3496	2769				0004855		14801											
	190	OBS	0604	0479	34961	2769						14800											
		STD	0700	0450	3496	2772				0004611		14804											
		STD	0800	0428	3495	2774				0004487		14812											
	190	OBS	T0803	0427	34952	2774						14812											
		STD	0900	0414	3495	2775				0004431		14822											
		STD	1000	0403	3495	2776				0004393		14835											
	190	OBS	1018	0402	34947	2776						14837											
		STD	1100	0401	3496	2777				0004388		14851											
		STD	1200	0398	3497	2779				0004369		14866											
	190	OBS	T1285	0394	34974	2779						14879											
		STD	1300	0393	3497	2779				0004396		14881											
		STD	1400	0385	3497	2780				0004383		14894											
		STD	1500	0375	3495	2779				0004486		14907											
	190	OBS	T1533	0371	34948	2780						14911											

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	ORBIT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	762	CM	44070N	041078W	149	41	08	28	189	1966	OSD	002	4572	14	35	1	2		X1	3	4	0002	
		WATER		WIND		AIR TEMP. °C																	
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
					26	S10	166	217	178	7	15												
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma_t$ DTN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.						
		STO	0000	2077	3459	2426	0036713	0000	15237														
189		OBS	0000	2077	34585	2426			15237														
		STO	0010	2058	3459	2432	0036224	0036	15234														
		STO	0020	2039	3460	2437	0035698	0072	15230														
189		OBS	0023	2033	34611	2440			15229														
		STO	0030	1859	3464	2487	0031015	0106	15183														
189		OBS	0048	1484	34700	2579			15073														
		STO	0050	1454	3470	2586	0021618	0158	15064														
		STO	0075	1146	3474	2651	0015503	0205	14965														
189		OBS	0096	0992	34774	2681			14914														
		STO	0100	0992	3481	2684	0012426	0240	14915														
		STO	0125	0989	3499	2698	0011107	0269	14920														
189		OBS	0142	0987	35037	2702			14923														
		STO	0150	0955	3499	2704	0010610	0296	14912														
189		OBS	0189	0853	34893	2713			14879														
		STO	0200	0853	3493	2716	0009561	0347	14881														
189		OBS	T0236	0854	34999	2721			14888														
		STO	0250	0833	3499	2724	0008906	0393	14883														
189		OBS	0284	0781	34977	2730			14868														
		STO	0300	0747	3495	2733	0008027	0435	14857														
189		OBS	0376	0632	34882	2744			14824														
		STO	0400	0627	3492	2748	0006751	0509	14826														
189		OBS	T0470	0597	34972	2756			14827														
		STO	0500	0568	3496	2758	0005821	0572	14820														
189		OBS	0565	0518	34947	2763			14810														
		STO	0600	0509	3496	2765	0005200	0627	14812														
		STO	0700	0483	3498	2770	0004844	0677	14818														
189		OBS	T0752	0470	34984	2772			14822														
		STO	0800	0456	3497	2772	0004694	0725	14824														
		STO	0900	0431	3496	2774	0004564	0771	14830														
189		OBS	0943	0423	34956	2775			14834														
		STO	1000	0419	3496	2776	0004515	0817	14841														
		STO	1100	0411	3496	2776	0004512	0862	14855														
189		OBS	1183	0404	34964	2777			14866														
		STO	1200	0403	3496	2778	0004483	0907	14868														
		STO	1300	0394	3496	2778	0004490	0952	14881														
		STO	1400	0386	3495	2779	0004513	0997	14895														
189		OBS	T1424	0384	34953	2779			14898														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CITY CODE	ID. NO.					10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER				SEA
31	762	CM	44000N	041000W		149	41	08	29	132	1966	OSD	003	4572	13	19	4	3	X8	5	8	0003
WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANSL. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
				22	517	080	211	211	7	15												
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-15°	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.					
		STD	0000	1990	3502	2483	0031330	0000	15219													
	132	OBS	0000	1990	35024	2483			15219													
		STD	0010	1977	3513	2494	0030260	0031	15218													
		STD	0020	1963	3526	2508	0029020	0060	15217													
	132	OBS	0023	1959	35311	2513			15217													
		STD	0030	1815	3548	2562	0023869	0087	15180													
	132	OBS	0045	1571	35747	2641			15113													
		STD	0050	1541	3575	2647	0015817	0127	15104													
		STD	0075	1419	3575	2674	0013358	0163	15069													
	132	OBS	0091	1366	35744	2685			15055													
		STD	0100	1355	3574	2687	0012179	0195	15053													
		STD	0125	1330	3573	2691	0011828	0225	15048													
	132	OBS	0138	1320	35725	2693			15047													
		STD	0150	1314	3573	2695	0011584	0254	15047													
	132	OBS	0183	1303	35739	2698			15049													
		STD	0200	1303	3577	2700	0011215	0311	15052													
	132	OBS	T0229	1303	35775	2700			15057													
		STD	0250	1272	3571	2702	0011187	0367	15049													
	132	OBS	0273	1239	35647	2703			15041													
		STD	0300	1198	3558	2706	0010861	0422	15030													
	132	OBS	0361	1114	35452	2712			15010													
		STD	0400	1091	3542	2714	0010319	0528	15008													
	132	OBS	T0450	1016	35323	2720			14988													
		STD	0500	0863	3511	2728	0008958	0625	14937													
	132	OBS	0535	0773	35007	2734			14907													
		STD	0600	0661	3497	2747	0007140	0705	14873													
		STD	0700	0537	3495	2761	0005751	0770	14840													
	132	OBS	T0706	0532	34946	2762			14839													
		STD	0800	0490	3496	2768	0005194	0824	14838													
	132	OBS	0878	0466	34972	2771			14841													
		STD	0900	0465	3498	2772	0004877	0875	14844													
		STD	1000	0458	3499	2774	0004799	0923	14858													
	132	OBS	T1094	0447	35000	2776			14869													
		STD	1100	0446	3500	2776	0004661	0970	14870													
		STD	1200	0429	3499	2777	0004616	1017	14879													
		STD	1300	0408	3497	2778	0004588	1063	14887													
	132	OBS	T1315	0404	34963	2777			14888													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPI	AMT
31	762	CM	44085N	040558W	149	40	08	30	190	1966	OSD	004	4663	02	28	5	6		X1	8	6	0004	
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB	VEL CODE												
						29		S25		098		194		183		7		06					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -S µg - at/l	pH	S C C						
		STD	0000	2015	3548	2511	0028668	0000	15231														
190		OBS	0000	2015	35478	2511			15231														
		STD	0010	2017	3571	2528	0027082	0028	15236														
		STD	0020	2020	3587	2539	0026016	0054	15240														
190		OBS	0022	2020	35897	2541			15241														
		STD	0030	1848	3593	2588	0021388	0078	15195														
190		OBS	0043	1635	35967	2643			15135														
		STD	0050	1619	3600	2649	0015670	0115	15131														
		STD	0075	1563	3606	2666	0014087	0152	15119														
190		OBS	0087	1537	36071	2673			15113														
		STD	0100	1508	3604	2677	0013131	0186	15106														
		STD	0125	1455	3598	2684	0012531	0218	15092														
190		OBS	0129	1447	35972	2685			15090														
		STD	0150	1407	3592	2690	0012054	0249	15080														
190		OBS	0172	1369	35866	2694			15071														

TABLE II.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DUR. HOUR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER				SEA
31	762	CM	44105N	041055W		149	41	08	31	129	1966	050	005	4755	12	32	5	6	X1	9	4	0005
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSP. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB	VIS. CODE									
								28	525	166	206	167	8	14								
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CC					
		STD	0000	1956	3539	2519	0027860	0000	15214													
129		OBS	0000	1956	35386	2519			15214													
		STD	0010	1953	3540	2521	0027741	0028	15215													
		STD	0020	1949	3541	2522	0027620	0055	15215													
129		OBS	0024	1948	35410	2523			15216													
		STD	0030	1836	3559	2565	0023569	0081	15187													
129		OBS	0049	1567	35982	2660			15115													
		STD	0050	1564	3598	2660	0014613	0119	15114													
		STD	0075	1492	3597	2675	0013227	0154	15095													
129		OBS	0094	1450	35951	2683			15085													
		STD	0100	1441	3595	2685	0012385	0186	15083													
		STD	0125	1409	3592	2690	0012022	0217	15077													
129		OBS	0133	1400	35914	2691			15075													
		STD	0150	1386	3590	2693	0011774	0246	15073													
129		OBS	0170	1368	35879	2695			15070													
		STD	0200	1343	3584	2697	0011492	0304	15066													
129		OBS	0246	1290	35744	2701			15055													
		STD	0250	1283	3573	2701	0011254	0361	15053													
		STD	0300	1199	3557	2705	0010953	0417	15031													
129		OBS	0321	1162	35507	2707			15021													
		STD	0400	1017	3532	2719	0009784	0521	14980													
129		OBS	T0400	1017	35316	2719			14980													
		OBS	0473	0886	35172	2729			14942													
		STD	0500	0835	3513	2734	0008371	0611	14926													
		STD	0600	0676	3503	2750	0006909	0688	14880													
129		OBS	T0624	0645	35012	2752			14872													
		STD	0700	0567	3499	2761	0005849	0752	14853													
129		OBS	0783	0506	34973	2767			14841													
		STD	0800	0502	3498	2768	0005199	0807	14843													
		STD	0900	0477	3499	2772	0004919	0857	14849													
129		OBS	T0981	0457	34998	2774			14855													
		STD	1000	0453	3500	2775	0004684	0905	14856													
		STD	1100	0429	3498	2776	0004613	0952	14863													
129		OBS	T1183	0411	34962	2777			14869													



TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MAGNETIC CORRECTION	MARKSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT.	
31	762	CM	43587N	040458W		149	30	09	01	145	1966	OSD	006	4663	13	22	4	3		X6	5	8	0006
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE											
									25	517	095	183	183	6	15								
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	S Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg-at/l	TOTAL-P μg-at/l	NO <sub>3</sub> -N μg-at/l	NO <sub>3</sub> -N μg-at/l	SiO <sub>4</sub> -Si μg-at/l	pH	S C C						
		STD	0000	2006	3546	2512	0028542	0000	15228														
145		OBS	0000	2006	35464	2512			15228														
		STD	0010	2007	3547	2512	0028570	0029	15230														
		STD	0020	2009	3548	2512	0028601	0057	15233														
145		OBS	0021	2009	35477	2512			15233														
		STD	0030	1862	3575	2571	0023030	0083	15197														
145		OBS	0044	1685	36047	2637			15151														
		STD	0050	1661	3605	2643	0016249	0122	15145														
		STD	0075	1575	3606	2664	0014355	0160	15123														
145		OBS	0087	1540	36064	2672			15114														
		STD	0100	1507	3602	2676	0013256	0195	15105														
		STD	0125	1461	3597	2682	0012729	0227	15094														
145		OBS	0130	1454	35962	2683			15092														
		STD	0150	1446	3597	2685	0012521	0259	15093														
145		OBS	0175	1430	35970	2689			15092														
		STD	0200	1405	3593	2691	0012086	0321	15088														
145		OBS	T0220	1386	35899	2693			15084														
		STD	0250	1362	3586	2695	0011868	0380	15081														
145		OBS	0262	1352	35843	2696			15079														
		STD	0300	1330	3581	2698	0011732	0439	15078														
145		OBS	0347	1278	35719	2701			15067														
		STD	0400	1174	3553	2707	0011030	0553	15038														
145		OBS	T0435	1110	35423	2711			15020														
		STD	0500	1001	3528	2719	0009992	0658	14990														
145		OBS	0519	0968	35242	2721			14981														
		STD	0600	0796	3511	2739	0008096	0749	14928														
145		OBS	T0691	0654	35024	2752			14886														
		STD	0700	0646	3502	2753	0006680	0823	14885														
		STD	0800	0572	3503	2763	0005752	0885	14872														
145		OBS	0868	0533	35033	2768			14867														
		STD	0900	0523	3503	2769	0005222	0940	14869														
		STD	1000	0494	3502	2772	0005030	0991	14873														
145		OBS	T1090	0472	35016	2774			14879														
		STD	1100	0470	3502	2774	0004855	1040	14880														
		STD	1200	0450	3501	2776	0004713	1088	14888														
		STD	1300	0434	3501	2778	0004619	1135	14899														
145		OBS	T1326	0431	35011	2778			14902														

TABLE II.—Continued

REFERENCE CITY CODE	SHIP 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 S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	STA		TRF	AMT
31	762	CM	44092N	041034W	149	41	09	02	131	1966	OSD	007	4572	11	27	4	6	X1	5	5	0007		
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR		TRANS.		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE									
		24		512		064		194		172		8		15									

MESSNGR TIME HR 1/10	CASST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	CHLOR.
		STD	0000	1976	3535	2511	0028625	0000	15219								
131		OBS	0000	1976	35349	2511			15219								
		STD	0010	1975	3535	2511	0028631	0029	15220								
131		OBS	0017	1975	35353	2512			15221								
		STD	0020	1929	3542	2529	0027018	0056	15210								
		STD	0030	1792	3560	2577	0022456	0081	15175								
131		OBS	0034	1744	35654	2593			15162								
		STD	0050	1605	3576	2634	0017110	0121	15124								
131		OBS	0072	1478	35840	2669			15089								
		STD	0075	1474	3584	2669	0013791	0159	15088								
		STD	0100	1432	3585	2679	0012916	0193	15079								
131		OBS	0103	1426	35853	2681			15078								
		STD	0125	1362	3583	2693	0011731	0224	15060								
131		OBS	0138	1338	35812	2696			15054								
		STD	0150	1333	3578	2695	0011592	0253	15054								
131		OBS	T0172	1322	35740	2694			15053								
		STD	0200	1302	3573	2697	0011524	0311	15051								
131		OBS	0203	1300	35723	2697			15051								
		STD	0250	1278	3575	2704	0010989	0367	15052								
		OBS	0268		35765												
		STD	0300	1236	3566	2705	0010994	0422	15045								
131		OBS	T0332	1200	35558	2704			15036								
131		OBS	0397	1103	35388	2709			15011								
		STD	0400	1097	3538	2710	0010719	0530	15009								
		STD	0500	0904	3512	2723	0009543	0632	14952								
131		OBS	T0528	0857	35077	2727			14939								
		STD	0600	0748	3505	2741	0007810	0718	14909								
131		OBS	0676	0652	35030	2753			14883								
		STD	0700	0627	3502	2755	0006443	0790	14877								
		STD	0800	0540	3499	2764	0005619	0850	14858								
131		OBS	T0861	0499	34972	2768			14852								
		STD	0900	0478	3497	2770	0005079	0903	14849								
		STD	1000	0442	3497	2773	0004766	0953	14851								
131		OBS	1091	0431	34961	2774			14862								

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10'	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
31	762	CM	44213N	041286W	149	41	09	06	182	1966	050	008	4572	14	01	1	6	X1	3	3	0008		
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mbs)		DRY BULB		WET BULB		VIS. CODE							
						22		S10		284		183		122		8		15					
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C C						
		STD	0000	1849	3556	2560	0023965	0000	15186														
182		OBS	0000	1849	35564	2560			15186														
		STD	0010	1829	3556	2565	0023544	0024	15182														
		STD	0020	1811	3556	2569	0023174	0047	15178														
182		OBS	0025	1802	35557	2571			15176														
		STD	0030	1801	3556	2572	0022958	0070	15177														
		STD	0050	1761	3561	2585	0021755	0115	15169														
182		OBS	0050	1761	35606	2585			15169														
		STD	0075	1548	3577	2648	0015877	0162	15111														
182		OBS	0098	1427	35863	2681			15077														
		STD	0100	1427	3587	2682	0012682	0198	15078														
		STD	0125	1420	3589	2685	0012466	0229	15080														
182		OBS	0148	1408	35905	2689			15080														
		STD	0150	1406	3590	2689	0012180	0260	15079														
182		OBS	0198	1364	35874	2696			15073														
		STD	0200	1361	3587	2696	0011633	0319	15073														
182		OBS	T0247	1312	35800	2701			15063														
		STD	0250	1310	3580	2701	0011270	0377	15063														
182		OBS	0295	1282	35745	2702			15060														
		STD	0300	1279	3574	2703	0011238	0433	15060														
182		OBS	0390	1197	35583	2707			15045														
		STD	0400	1184	3556	2707	0010998	0544	15042														
182		OBS	T0486	1051	35370	2717			15007														
		STD	0500	1020	3533	2719	0009954	0649	14997														
182		OBS	0579	0864	35138	2730			14950														
		STD	0600	0829	3512	2734	0008536	0741	14941														
		STD	0700	0681	3506	2751	0006914	0819	14899														
182		OBS	T0766	0603	35029	2759			14879														
		STD	0800	0572	3501	2762	0005900	0883	14872														
		STD	0900	0497	3496	2767	0005397	0939	14857														
182		OBS	0966	0461	34936	2769			14853														
		STD	1000	0455	3494	2770	0005107	0992	14856														
		STD	1100	0438	3495	2773	0004934	1042	14866														
		STD	1200	0423	3496	2775	0004774	1090	14877														
182		OBS	T1217	0421	34959	2775			14879														
		STD	1300	0410	3495	2776	0004732	1138	14888														
		STD	1400	0398	3495	2777	0004712	1185	14900														
182		OBS	T1439	0394	34946	2777			14904														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH ID BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR	HGT			
31	762	CM	4439 N	04045 W	149	40	09	08	140	1966	05D	009	4572	34	23	3	7	X5	5 6	0009
WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
				22	515	139	189	183	7	19										
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> 10 <sup>3</sup>	Σ Δ ρ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SIO <sub>4</sub> -Si μg - at/l	pH	S C			
		STD	0000	1877	3584	2574	0022620	0000	15197											
140		OBS	0000	1877	35842	2574			15197											
		STD	0010	1872	3584	2575	0022558	0023	15197											
		STD	0020	1868	3584	2576	0022504	0045	15198											
140		OBS	0026	1865	35836	2577			15198											
		STD	0030	1855	3588	2583	0021919	0067	15196											
		STD	0050	1802	3607	2610	0019347	0109	15187											
140		OBS	0052	1797	36090	2613			15186											
		STD	0075	1728	3616	2636	0017036	0154	15170											
		STD	0100	1655	3624	2659	0014882	0194	15153											
140		OBS	0103	1646	36250	2662			15151											
		STD	0125	1574	3613	2669	0013975	0230	15131											
		STD	0150	1509	3602	2676	0013452	0264	15114											
140		OBS	0157	1494	36001	2677			15110											
		STD	0200	1441	3595	2685	0012683	0330	15100											
140		OBS	0209	1430	35938	2686			15097											
		STD	0250	1380	3586	2691	0012232	0392	15087											
140		OBS	T0262	1368	35855	2693			15085											
		STD	0300	1338	3587	2700	0011483	0451	15081											
140		OBS	0312	1330	35869	2702			15081											
		STD	0400	1285	3575	2702	0011551	0566	15079											
140		OBS	0414	1274	35722	2702			15077											
		STD	0500	1179	3555	2707	0011227	0680	15056											
140		OBS	T0516	1154	35513	2709			15050											
		STD	0600	0973	3526	2722	0009872	0786	14996											
140		OBS	0618	0942	35220	2724			14987											
		STD	0700	0894	3510	2723	0009918	0885	14981											
		STD	0800	0801	3499	2728	0009406	0981	14961											
140		OBS	T0825	0772	34973	2731			14954											
		STD	0900	0623	3495	2750	0007185	1064	14908											
		STD	1000	0476	3492	2766	0005532	1128	14865											
140		OBS	1034	0440	34918	2770			14855											
		STD	1100	0425	3492	2772	0005005	1181	14860											
		STD	1200	0406	3492	2773	0004874	1230	14869											
140		OBS	1296	0393	34913	2775			14879											
		STD	1300	0393	3491	2775	0004815	1278	14880											
		STD	1400	0387	3492	2776	0004782	1326	14895											
		STD	1500	0382	3492	2777	0004768	1374	14909											
140		OBS	T1559	0379	34927	2777			14918											
		STD	1750	0369	3492	2778	0004834	1494	14946											
173		OBS	T1811	0366	34917	2778			14955											
		STD	2000	0364	3493	2779	0004894	1616	14986											
173		OBS	2315	0357	34941	2780			15037											
		STD	2500	0348	3494	2782	0004945	1862	15065											
173		OBS	2835	0331	34950	2784			15116											
		STD	3000	0322	3495	2785	0004858	2107	15141											
173		OBS	T3357	0303	34942	2786			15194											

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
31	762	CM	44102N	040331W	149	40	09	10	186	1966	OSD	010	4755	17	24	4	9	X2	8	0010	
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE											
		24		S20		139		189 183		7		14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t^2$	S Δ O DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg-at/l	TOTAL-P µg-at/l	NO <sub>2</sub> -N µg-at/l	NO <sub>3</sub> -N µg-at/l	SiO <sub>4</sub> -Si µg-at/l	pH	S CC				
		STD	0000	1762	3561	2585	0021618	0000	15161												
186		OBS	0000	1762	35605	2585			15161												
		STD	0010	1763	3562	2585	0021573	0022	15163												
		STD	0020	1764	3563	2586	0021523	0043	15165												
186		OBS	0029	1765	35647	2587			15167												
		STD	0030	1762	3565	2588	0021392	0065	15167												
		STD	0050	1706	3578	2612	0019224	0105	15155												
186		OBS	0057	1684	35813	2619			15150												
		STD	0075	1593	3585	2643	0016270	0150	15126												
		STD	0100	1495	3589	2669	0013950	0187	15100												
186		OBS	0116	1450	35897	2679			15088												
		STD	0125	1442	3589	2680	0012918	0221	15087												
		STD	0150	1420	3587	2683	0012685	0253	15084												
186		OBS	0173	1403	35867	2687			15082												
		STD	0200	1389	3587	2690	0012205	0315	15082												
186		OBS	0230	1372	35872	2694			15081												
		STD	0250	1358	3585	2695	0011860	0375	15080												
186		OBS	T0289	1334	35814	2697			15078												
		STD	0300	1330	3581	2698	0011724	0434	15078												
186		OBS	0344	1306	35799	2702			15077												
		STD	0400	1254	3569	2704	0011384	0550	15067												
186		OBS	0450	1196	35589	2707			15055												
		STD	0500	1096	3543	2714	0010570	0660	15026												
		STD	0600	0914	3519	2726	0009393	0759	14973												
186		OBS	0665	0810	35083	2734			14944												
		STD	0700	0754	3506	2741	0007994	0846	14928												
		STD	0800	0622	3502	2756	0006516	0919	14892												
186		OBS	T0880	0544	34995	2764			14873												
		STD	0900	0535	3499	2765	0005654	0980	14873												
		STD	1000	0496	3498	2769	0005329	1035	14874												
		STD	1100	0463	3497	2772	0005087	1087	14877												
186		OBS	1111	0460	34971	2772			14877												
		STD	1200	0442	3496	2773	0005004	1137	14884												
		STD	1300	0422	3495	2774	0004911	1187	14893												
		STD	1400	0401	3495	2777	0004739	1235	14901												
186		OBS	T1401	0401	34945	2776			14901												
		STD	1500	0388	3494	2777	0004729	1282	14912												
186		OBS	T1686	0373	34923	2777			14937												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	INDIC.	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA-THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	762	CM	44168N	040213W		149	40	09	12	139	1966	OSD	011	4664	10	28	3	7		X1	3	6	0011
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB															
					21	S15	166	206	200	7	15												
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t^*$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S/C						
		STD	0000	1877	3587	2576	0022417	0000	15197														
139		OBS	0000	1877	35870	2576			15197														
		STD	0010	1875	3589	2578	0022294	0022	15199														
139		OBS	0017	1872	35896	2579			15199														
		STD	0020	1870	3592	2582	0021962	0044	15199														
		STD	0030	1865	3600	2589	0021282	0066	15200														
139		OBS	0033	1863	36014	2591			15201														
		STD	0050	1786	3608	2615	0018897	0106	15182														
139		OBS	0066	1699	36085	2637			19159														
		STD	0075	1618	3602	2651	0015583	0149	15135														
139		OBS	0099	1474	35905	2674			15093														
		STD	0100	1473	3591	2675	0013379	0186	15093														
		STD	0125	1445	3590	2680	0012908	0218	15088														
139		OBS	0130	1440	35899	2681			15087														
		STD	0150	1421	3587	2683	0012706	0250	15084														
139		OBS	T0162	1412	35859	2684			15083														
139		OBS	0192	1394	35852	2688			15082														
		STD	0200	1393	3585	2688	0012425	0313	15083														
139		OBS	0247	1374	35846	2691			15084														
		STD	0250	1371	3584	2692	0012173	0375	15084														
		STD	0300	1331	3579	2696	0011934	0435	15078														
139		OBS	T0304	1329	35780	2696			15078														
139		OBS	0356	1314	35780	2699			15081														
		STD	0400	1303	3577	2700	0011761	0554	15085														
139		OBS	T0462	1245	35677	2704			15074														
		STD	0500	1158	3553	2710	0010979	0667	15049														
139		OBS	0593	0958	35227	2722			14989														
		STD	0600	0941	3521	2723	0009696	0771	14984														
		STD	0700	0734	3502	2741	0007987	0859	14919														
139		OBS	T0758	0643	34956	2748			14892														
		STD	0800	0591	3496	2755	0006520	0932	14879														
		STD	0900	0512	3497	2766	0005504	0992	14863														
139		OBS	T0998	0498	34983	2769			14874														

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INSTR.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	762	CM	44100N	040450W	149	40	09	14	133	1966	OSD	012	4572	17	25	3	6	X1	8	6	0012	
					WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB	W. CODE										
							28	S15	132	161	139	8	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{10}^t$	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CC					
		STD	0000	1821	3542	2556	0024323	0000	15176													
133		OBS	0000	1821	35423	2556			15176													
		STD	0010	1818	3552	2564	0023581	0024	15178													
		STD	0020	1815	3562	2573	0022818	0047	15180													
		STD	0030	1811	3570	2580	0022177	0070	15181													
133		OBS	0033	1810	35725	2582			15182													
		STD	0050	1802	3585	2594	0020932	0113	15184													
133		OBS	0067	1793	35937	2602			15185													
		STD	0075	1739	3593	2615	0018953	0163	15171													
		STD	0100	1595	3592	2648	0015877	0206	15131													
		STD	0125	1487	3591	2672	0013719	0243	15101													
133		OBS	0134	1456	35904	2676			15093													
		STD	0150	1432	3588	2682	0012859	0276	15088													
		STD	0200	1371	3582	2690	0012206	0339	15075													
133		OBS	0200	1371	35819	2690			15075													
		STD	0250	1327	3576	2694	0011898	0399	15068													
133		OBS	0267	1318	35758	2696			15068													
		STD	0300	1313	3578	2699	0011603	0458	15072													
133		OBS	T0333	1307	35786	2701			15075													
		STD	0400	1228	3574	2713	0010525	0569	15059													
133		OBS	0400	1228	35739	2713			15059													
		STD	0500	1111	3545	2712	0010696	0675	15031													
133		OBS	0531	1064	35367	2714			15019													
		STD	0600	0923	3519	2725	0009542	0776	14977													
133		OBS	0664	0806	35068	2734			14942													
		STD	0700	0742	3506	2743	0007806	0863	14923													
133		OBS	0796	0606	3493Q	2751Q																
		STD	0800	0604	3504	2760	0006117	0932	14885													
		STD	0900	0552	3502	2765	0005691	0991	14880													
		STD	1000	0509	3500	2769	0005383	1047	14879													
133		OBS	T1061	0487	34986	2770			14880													
		STD	1100	0477																		
		STD	1200	0453																		
		STD	1300	0431																		
133		OBS	1327	0426	3503Q	2780Q																
		STD	1400	0413																		
		STD	1500	0398																		
133		OBS	T1661	0379	3494Q	2778Q																

TABLE II.—Continued

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1'			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	762	CM	43413N	041172W	149	31	09	16	162	1966	OSD	013	4755	14	23	0	5	X1	6	1	0013		
		WATER		WIND		BARO- METER		AIR TEMP °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS (ml)		DIR.		SPEED OF FORCE		METER		DRY BULB		WET BULB		VIS CODE							
								00		500		281		227		205		8		13			

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C
162		OBS	0023	1886	36013	2585			15205								
		STD	0030	1879	3603	2588	0021410		15205								
162		OBS	0048	1850	35860	25820											
		STD	0050	1844	3607	2600	0020346		15199								
		STD	0075	1767	3610	2621	0018392		15181								
162		OBS	0095	1705	36120	2638			15166								
		STD	0100	1686	3612	2642	0016463		15161								
		STD	0125	1601	3612	2662	0014640		15140								
162		OBS	0142	1555	36112	2672			15128								
		STD	0150	1535	3609	2675	0013499		15123								
162		OBS	0190	1473	36032	2684			15109								
		STD	0200	1476	3605	2685	0012687		15112								
162		OBS	T0237	1479	36077	2688			15120								
		STD	0250	1474	3609	2689	0012504		15120								
162		OBS	0284	1461	36061	2689			15121								
		STD	0300	1456	3605	2690	0012565		15122								
162		OBS	0378	1421	35995	2693			15123								
		STD	0400	1405	3596	2694	0012447		15121								
162		OBS	T0472	1351	35856	2697			15114								
		STD	0500	1351	3580	2693	0012782		15118								
		STD	0600	1306	3560	2686	0013595		15117								
		STD	0700	1192	3543	2696	0012843		15092								
162		OBS	0743	1121	35364	2704			15074								
		STD	0800	0955	3527	2726	0009905		15022								
		STD	0900	0725	3515	2752	0007222		14951								
162		OBS	0924	0682	35125	2756			14937								
		STD	1000	0609	3510	2764	0006022		14921								
		STD	1100	0531	3507	2772	0005277		14906								
162		OBS	T1151	0500	35053	2774			14901								
		STD	1200	0475	3504	2776	0004853		14899								
		STD	1300	0441	3502	2778	0004652		14902								
162		OBS	T1385	0429	35002	2778			14911								



TABLE III. Observed and interpolated oceanographic data for stations taken by USCGC HUM-BOLDT at Ocean Station DELTA, 12 October-2 November 1966, prepared from NODC listing No. 31-772 HU.

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	772	HU	44044N	040431W	149	40	10	12	188	1966	OSD	001	4663	14	03	4	X	X2	6	8	0001
					WATER		WIND		BARO- METER	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB										
							09	523	227	174	155	8	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at}^{-1}$	pH	CTD				
		STD	0000	1757	3543	2573	0022753	0000	15158												
188		OBS	0000	1757	35433	2573			15158												
		STD	0010	1757	3543	2573	0022786	0023	15159												
		STD	0020	1757	3543	2573	0022820	0046	15161												
188		OBS	0026	1757	35433	2573			15162												
		STD	0030	1757	3544	2573	0022848	0068	15163												
188		OBS	0048	1759	35442	2573			15166												
		STD	0050	1746	3547	2578	0022396	0114	15163												
		STD	0075	1610	3576	2633	0017299	0163	15130												
		STD	0100	1514	3593	2667	0014068	0202	15106												
188		OBS	0100	1514	35929	2667			15106												
		STD	0125	1468	3592	2677	0013240	0237	15096												
188		OBS	0142	1443	35915	2682			15090												
		STD	0150	1437	3591	2683	0012743	0269	15090												
188		OBS	0190	1404	35889	2688			15085												
		STD	0200	1394	3588	2690	0012227	0332	15083												
188		OBS	T0234	1364	35842	2693			15079												
		STD	0250	1350	3582	2694	0011919	0392	15077												
188		OBS	0280	1329	35791	2696			15074												
		STD	0300	1325	3579	2697	0011771	0451	15076												
188		OBS	0370	1311	35741	2700			15083												
		STD	0400	1275	3572	2702	0011574	0568	15075												
188		OBS	T0455	1202	35592	2706			15057												
		STD	0500	1137	3549	2711	0010881	0680	15041												
188		OBS	0542	1069	35395	2716			15023												
		STD	0600	0930	3524	2728	0009292	0781	14980												
		STD	0700	0731	3502	2741	0007942	0867	14918												
188		OBS	T0715	0706	34999	2743			14911												
		STD	0800	0656	3499	2749	0007219	0943	14905												
		STD	0900	0602	3498	2756	0006668	1012	14900												
		STD	1000	0553	3497	2761	0006191	1077	14897												
		STD	1100	0508	3496	2766	0005772	1136	14895												
188		OBS	1155	0486	34958	2768			14895												
		STD	1200	0469	3495	2769	0005434	1193	14895												
		STD	1300	0434	3495	2772	0005074	1245	14898												
		STD	1400	0405	3494	2775	0004862	1295	14902												
188		OBS	T1426	0398	34940	2776			14904												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDIC.	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAY DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1'	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA		TYPE	AMT.	
31	772	HJ	44.00 N	04.49 W	149	40	10	13	126	1966	050	002	4663	16	12	3	X		X2	6	8	0002		
						WATER		WIND		BARO-	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
								14	521	227	183	172	8	15										
MESSNGR TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDALTY-10 <sup>3</sup>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	σ <sub>t</sub>							
		STD	0000	1737	3537	2573	0022751	0000	15151															
126		OBS	0000	1737	35370	2573			15151															
		STD	0010	1738	3537	2573	0022780	0023	15153															
		STD	0020	1739	3538	2573	0022800	0046	15155															
126		OBS	0026	1739	35379	2573			15156															
		STD	0030	1739	3538	2573	0022830	0068	15157															
		STD	0050	1739	3538	2573	0022896	0114	15160															
126		OBS	0050	1739	35379	2573			15160															
		STD	0075	1659	3574	2620	0018534	0166	15144															
		STD	0100	1577	3594	2654	0015344	0208	15126															
126		OBS	0101	1574	35941	2655			15125															
		STD	0125	1482	3587	2670	0013898	0245	15099															
		STD	0150	1408	3580	2681	0012951	0278	15079															
126		OBS	0151	1406	35798	2681			15078															
		STD	0200	1333	3570	2688	0012353	0342	15061															
126		OBS	0200	1333	35695	2688			15061															
		STD	0250	1320	3571	2692	0012125	0403	15065															
126		OBS	T0259	1314	35713	2693			15065															
		STD	0300	1270	3565	2697	0011728	0462	15056															
126		OBS	0300	1270	35649	2697			15056															
		STD	0400	1211	3559	2704	0011281	0577	15052															
126		OBS	0402	1209	35590	2705			15051															
		STD	0500	1071	3538	2714	0010486	0686	15016															
126		OBS	T0507	1060	35364	2715			15013															
		STD	0600	0897	3516	2727	0009333	0785	14967															
126		OBS	0610	0880	35140	2728			14962															
		STD	0700	0728	3505	2744	0007677	0870	14917															
		STD	0800	0600	3498	2756	0006504	0941	14882															
126		OBS	T0811	0588	34974	2757			14879															
		STD	0900	0528	3496	2763	0005797	1003	14870															
		STD	1000	0476	3495	2768	0005333	1059	14865															
126		OBS	1040	0460	34941	2770			14865															
		STD	1100	0450	3495	2771	0005081	1111	14871															
		STD	1200	0433	3495	2773	0004962	1161	14881															
		STD	1300	0418	3495	2775	0004864	1210	14891															
126		OBS	T1310	0417	34953	2775			14892															
		STD	1400	0405	3495	2776	0004788	1258	14902															
		STD	1500	0392	3494	2777	0004781	1306	14914															
126		OBS	T1595	0382	34932	2777			14925															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	772	HU	4354 N	04058 W	149	30	10	14	125	1966	050	003	4609	16	33	3	X	X1	4	6	0003	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS- MITS (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	8					15				
								33	519	217	206	172	172	8	15							
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SI O <sub>4</sub> -S μg - dl/l	pH	S C C					
		STD	0000	1735	3534	2571	0022894	0000	15150													
	125	OBS	0000	1735	35344	2571			15150													
		STD	0010	1738	3535	2571	0022952	0023	15153													
		STD	0020	1740	3536	2571	0022958	0046	15155													
	125	OBS	0026	1741	35364	2571			15156													
		STD	0030	1741	3537	2571	0022970	0069	15157													
		STD	0050	1743	3538	2572	0022950	0115	15161													
	125	OBS	0051	1743	35385	2572			15161													
		STD	0075	1710	3588	2618	0018671	0167	15161													
		STD	0100	1648	3614	2653	0015459	0209	15150													
	125	OBS	0103	1639	36151	2656			15148													
		STD	0125	1523	3597	2669	0014038	0246	15114													
		STD	0150	1430	3583	2678	0013183	0280	15086													
	125	OBS	0154	1419	35813	2679			15083													
		STD	0200	1375	3580	2687	0012462	0344	15076													
	125	OBS	0206	1371	35792	2688			15076													
		STD	0250	1351	3579	2692	0012150	0406	15076													
	125	OBS	T0261	1346	35790	2693			15077													
		STD	0300	1326	3578	2696	0011856	0466	15076													
	125	OBS	0309	1321	35780	2697			15076													
		STD	0400	1275	3572	2702	0011574	0583	15075													
	125	OBS	0412	1261	35697	2703			15072													
		STD	0500	1083	3540	2714	0010555	0694	15021													
	125	OBS	T0517	1050	35350	2716			15011													
		STD	0600	0892	3516	2728	0009251	0793	14965													
	125	OBS	0618	0861	35126	2730			14956													
		STD	0700	0722	3505	2745	0007588	0677	14915													
		STD	0800	0594	3499	2757	0006347	0947	14880													
	125	OBS	T0824	0570	34983	2760			14874													
		STD	0900	0528	3498	2765	0005657	1007	14870													
		STD	1000	0483	3498	2770	0005181	1061	14868													
	125	OBS	1034	0470	34976	2771			14868													
		STD	1100	0455	3497	2772	0004998	1112	14873													
		STD	1200	0434	3496	2774	0004901	1161	14881													
		STD	1300	0415	3496	2776	0004752	1210	14890													
	125	OBS	T1306	0414	34956	2776			14891													
		STD	1400	0399	3495	2777	0004710	1257	14900													
		STD	1500	0385	3494	2778	0004690	1304	14911													
	125	OBS	T1562	0378	34928	2777			14918													

TABLE III.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER	
						10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA				TYPE
31	772	HU	4402 N	04107 W		149	41	10	15	139	1966	OSI	004	4663	16	33	3	X		X1	8	6	0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS					
						CDLOR CODE	TRANS. IMI	DIR.	SPEED OF FORCE	METER (IMB)	DRY BULB	WET BULB	VIS. CODE										
									32	519	281	172	128	8	15								
MESSNGR TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma_t$ DYN. W. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	ST CC						
		STD	0000	1752	3537	2569	0023074	0000	15155														
139		OBS	0000	1752	35373	2569			15155														
		STD	0010	1749	3538	2571	0022987	0023	15156														
		STD	0020	1744	3538	2572	0022905	0046	15156														
139		OBS	0028	1740	35381	2573			15157														
		STD	0030	1739	3538	2573	0022837	0069	15157														
		STD	0040	1724	3535	2574	0022784	0114	15155														
139		OBS	0054	1720	35341	2575			15154														
		STD	0075	1692	3577	2614	0019061	0167	15155														
		STD	0100	1647	3607	2648	0015946	0211	15149														
139		OBS	0108	1630	36126	2656			15146														
		STD	0125	1575	3604	2662	0014652	0249	15131														
		STD	0150	1507	3594	2670	0013992	0285	15112														
139		OBS	0162	1479	35898	2673			15105														
		STD	0200	1415	3584	2682	0012948	0352	15090														
139		OBS	0217	1393	35819	2685			15085														
		STD	0250	1364	3580	2690	0012346	0415	15081														
139		OBS	T0272	1348	35791	2692			15079														
		STD	0300	1333	3579	2695	0011937	0476	15079														
139		OBS	0322	1320	35783	2698			15078														
		STD	0400	1268	3569	2701	0011656	0594	15072														
139		OBS	0425	1233	35636	2704			15064														
		STD	0500	1056	3533	2713	0010585	0705	15010														
139		OBS	T0532	0988	35236	2718			14990														
		STD	0600	0861	3513	2730	0008970	0803	14953														
139		OBS	0637	0799	35080	2736			14935														
		STD	0700	0708	3503	2745	0007528	0885	14909														
		STD	0800	0593	3498	2757	0006407	0955	14880														
139		OBS	T0852	0547	34968	2761			14870														
		STD	0900	0525	3497	2764	0005691	1015	14869														
		STD	1000	0484	3497	2769	0005267	1070	14869														
139		OBS	1065	0463	34974	2772			14871														
		STD	1100	0456	3497	2772	0005011	1122	14874														
		STD	1200	0437	3496	2774	0004940	1171	14882														
		STD	1300	0420	3496	2775	0004817	1220	14892														
139		OBS	T1351	0412	34951	2776			14897														
		STD	1400	0405	3495	2776	0004788	1268	14902														
		STD	1500	0392	3494	2777	0004781	1316	14914														
139		OBS	T1607	0380	34928	2777			14927														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC CORRECTION	MAGNETIC SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	772	HU	4400 N	04100 W		149	41	10	16	128	1966	OSD	005	4572	15	21	3	X	X1	8	6	0005	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB	VIS. CODE										
								26	S21	230	172	133	8	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ	DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	χ	CC				
		STD	0000	1752	3548	2578	0022267	0000	15157														
128		OBS	0000	1752	35484	2578			15157														
		STD	0010	1750	3548	2578	0022300	0022	15158														
		STD	0020	1748	3547	2578	0022336	0045	15159														
128		OBS	0023	1747	35468	2578			15159														
		STD	0030	1725	3556	2590	0021192	0066	15155														
128		OBS	0047	1683	35757	2615			15147														
		STD	0050	1681	3580	2619	0018520	0106	15148														
		STD	0075	1668	3609	2644	0016200	0149	15151														
128		OBS	0093	1659	36171	2653			15153														
		STD	0100	1628	3612	2656	0015158	0189	15144														
		STD	0125	1532	3598	2667	0014158	0225	15116														
128		OBS	0139	1487	3590 <sup>9</sup>	2672			15104														
		STD	0150	1459	3586	2674	0013565	0260	15096														
128		OBS	0184	1390	35753	2681			15078														
		STD	0200	1384	3577	2683	0012863	0326	15079														
		STD	0250	1362	3580	2690	0012291	0389	15080														
128		OBS	0275	1349	35820	2695			15080														
		STD	0300	1340	3582	2696	0011858	0449	15081														
128		OBS	0364	1288	35740	2701			15074														
		STD	0400	1225	3561	2703	0011409	0566	15057														
128		OBS	T0460	1128	35441	2709			15031														
		STD	0500	1074	3536	2712	0010686	0676	15017														
128		OBS	0556	0991	35262	2719			14995														
		STD	0600	0895	3518	2729	0009153	0775	14966														
		STD	0700	0714	3503	2744	0007616	0859	14912														
128		OBS	T0752	0642	34980	2750			14891														
		STD	0800	0602	3498	2756	0006531	0930	14883														
		STD	0900	0532	3497	2763	0005784	0991	14871														
128		OBS	0962	0497	34969	2768			14867														
		STD	1000	0485	3497	2769	0005302	1047	14869														
		STD	1100	0457	3496	2772	0005083	1099	14874														
		STD	1200	0434	3496	2774	0004931	1149	14881														
128		OBS	T1236	0426	34954	2774			14884														
		STD	1300	0414	3495	2775	0004820	1198	14889														
		STD	1400	0399	3494	2776	0004776	1246	14900														
		STD	1500	0388	3493	2777	0004780	1293	14912														
128		OBS	T1521	0386	34931	2777			14915														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUBLIN MILES	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT	
31	772	HUJ	+357 N	04100 W		149	31	10	17	142	1966	OSD	006	4645	15	31	4	X	X1	4	5	0006	
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB											
								17	511	193	172	128	8	15									
MESSNGR TIME OF HR. 1/10	CASI NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P μg-at/l	TOTAL-P μg-at/l	NO <sub>2</sub> -N μg-at/l	NO <sub>3</sub> -N μg-at/l	SiO <sub>4</sub> -Si μg-at/l	pH	SiO <sub>2</sub> μg-at/l						
		STD	0000	1852	3499	2516	0028176	0000	15180														
142		OBS	0000	1852	34994	2516			15180														
		STD	0010	1848	3499	2517	0028122	0028	15180														
		STD	0020	1844	3499	2518	0028067	0056	15181														
142		OBS	0025	1842	34992	2518			15181														
		STD	0030	1868	3517	2525	0027383	0084	15191														
		STD	0050	1929	3576	2555	0024630	0136	15219														
142		OBS	0050	1929	35764	2555			15219														
		STD	0075	1849	3619	2608	0019684	0191	15206														
		STD	0100	1772	3640	2643	0016417	0237	15190														
142		OBS	0101	1769	36403	2644			15189														
		STD	0125	1694	3629	2654	0015493	0276	15170														
		STD	0150	1624	3618	2662	0014794	0314	15151														
142		OBS	0151	1621	36176	2662			15151														
		STD	0200	1506	3597	2672	0013905	0386	15120														
142		OBS	0201	1504	35962	2672			15120														
		STD	0250	1396	3578	2682	0013141	0454	15091														
142		OBS	T0252	1392	35774	2682			15090														
		STD	0300	1311	3567	2690	0012413	0517	15070														
142		OBS	0302	1309	35660	2690			15069														
		STD	0400	1321	3583	2701	0011700	0638	15092														
142		OBS	0402	1321	35830	2701			15092														
		STD	0500	1118	3545	2711	0010824	0751	15034														
142		OBS	T0502	1114	35446	2712			15033														
		STD	0600	0903	3518	2727	0009321	0851	14969														
142		OBS	0601	0901	35172	2727			14968														
		STD	0700	0725	3506	2745	0007559	0936	14916														
		STD	0800	0593	3499	2757	0006334	1005	14880														
142		OBS	T0801	0592	34986	2757			14879														
		STD	0900	0523	3497	2765	0005642	1065	14868														
		STD	1000	0472	3496	2770	0005178	1119	14863														
142		OBS	1005	0470	34960	2770			14863														
		STD	1100	0455	3497	2772	0005035	1170	14873														
		STD	1200	0439	3497	2774	0004885	1220	14883														
142		OBS	T1260	0429	34974	2776			14889														
		STD	T300	0422	3497	2776	0004770	1268	14893														
		STD	1400	0406	3496	2777	0004728	1316	14903														
142		OBS	T1491	0391	34943	2777			14912														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
31	772	HU	4358 N	04106 W		149	31	10	19	125	1966	OSD	007	4590	15	19	6	X	X2	3	8	0007			
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE	METER (Mbs)	DRY BULB	WET BULB													
									30	530	007	167	150	7	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMALT-210°	Σ Δ D DYN. M x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>2</sub> -S μg - dl/l	pH	S. COND.								
		STD	0000	1837	3520	2535	0026344	0000	15178																
125		OBS	0000	1837	35197	2535			15178																
		STD	0010	1836	3521	2536	0026245	0026	15179																
		STD	0020	1831	3523	2539	0026052	0052	15180																
125		OBS	0027	1824	35237	2541			15179																
		STD	0030	1818	3525	2544	0025610	0078	15178																
		STD	0050	1781	3539	2564	0023791	0128	15172																
125		OBS	0054	1774	35430	2568			15171																
		STD	0075	1740	3583	2607	0019725	0182	15170																
		STD	0100	1693	3612	2641	0016622	0228	15163																
125		OBS	0109	1675	36184	2650			15160																
		STD	0125	1636	3613	2655	0015345	0267	15150																
		STD	0150	1577	3605	2662	0014702	0305	15135																
125		OBS	0164	1546	36011	2667			15128																
		STD	0200	1470	3594	2678	0013362	0375	15109																
125		OBS	0218	1435	35899	2682			15100																
		STD	0250	1367	3579	2688	0012479	0440	15082																
125		OBS	T0275	1335	35746	2692			15075																
		STD	0300	1333	3577	2694	0012087	0501	15079																
125		OBS	0329	1331	35788	2696			15083																
		STD	0400	1290	3573	2700	0011796	0621	15080																
125		OBS	0441	1243	35658	2703			15070																
		STD	0500	1134	3547	2710	0010972	0734	15040																
125		OBS	T0557	1019	35306	2718			15006																
		STD	0600	0911	3517	2725	0009490	0837	14972																
125		OBS	0674	0754	35006	2737			14923																
		STD	0700	0718	3500	2741	0007889	0924	14913																
		STD	0800	0599	3498	2756	0006475	0995	14882																
		STD	0900	0515	3496	2765	0005610	1056	14864																
125		OBS	T0907	0510	34962	2765			14864																
		STD	1000	0488	3497	2769	0005334	1111	14870																
		STD	1100	0466	3497	2772	0005112	1163	14878																
125		OBS	1159	0454	34978	2773			14883																
		STD	1200	0446	3497	2774	0004955	1213	14886																
		STD	1300	0427	3496	2775	0004879	1262	14895																
		STD	1400	0410	3496	2776	0004817	1311	14905																
125		OBS	T.479	0398	34947	2777			14913																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD COGES		NOCC STATION NUMBER	
CERY CODE	ID. NO.					10"	10"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	772	HU	4417 N	04105 W	149	41	10	20	173	1966	OSD	008	4526	18	28	9	3	X1	8	7	0008
		WATER		WIND		BARO-		AIR TEMP. °C													
		COLOR CODE	TRANS. IMI	OIL	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					10	S29	037	189	167	8	15										
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	CLC'S				
		STD	0000		3576																
173		OBS	0000		35758																
		STD	0010		3576																
		STD	0020		3576																
173		OBS	0029	1973	35763	2543				15228											
		STD	0030	1973	3576	2543	0025652			15228											
		STD	0050	1976	3578	2544	0025667			15232											
173		OBS	0057	1977	35789	2544				15234											
		STD	0075	1878	3594	2581	0022196			15211											
		STD	0100	1761	3608	2621	0018482			15183											
173		OBS	0115	1703	36118	2638				15169											
		STD	0125	1672	3608	2643	0016518			15161											
		STD	0150	1606	3601	2653	0015631			15144											
173		OBS	0172	1561	35973	2660				15133											
		STD	0200	1532	3598	2667	0014427			15129											
173		OBS	0230	1499	35978	2675				15123											
		STD	0250	1481	3596	2677	0013598			15121											
173		OBS	T0291	1424	35876	2683				15108											
		STD	0300	1402	3583	2684	0013043			15102											
173		OBS	0345	1310	35660	2690				15077											
		STD	0400	1266	3562	2696	0012127			15071											
173		OBS	0462	1187	35521	2704				15053											
		STD	0500	1102	3539	2709	0010971			15027											
173		OBS	T0584	0938	35180	2722				14979											
		STD	0600	0913	3516	2724	0009596			14973											
173		OBS	0698	0771	35082	2740				14934											
		STD	0700	0768	3508	2740	0008061			14933											
		STD	0800	0640	3503	2754	0006696			14899											
		STD	0900	0546	3499	2763	0005824			14877											
173		OBS	T0930	0524	34983	2765				14873											
		STD	1000	0503	3499	2769	0005370			14877											
		STD	1100	0475	3499	2772	0005112			14882											
173		OBS	1167	0459	34994	2774				14886											
		STD	1200	0452	3499	2774	0004916			14889											
		STD	1300	0432	3497	2775	0004901			14897											
		STD	1400	0414	3496	2776	0004833			14906											
173		OBS	T1478	0402	34951	2777				14914											
		STD	1500	0399	3495	2777	0004800			14917											
		STD	1750	0372	3493	2778	0004801			14947											
173		OBS	T1770	0370	34926	2778				14950											



TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSOEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	1966		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	772	HU	4359 N	04057 W	149	30	10	22	162	1966	OSD	009	4625	37	07	4	3	X2	3	8	0009			
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. (M)		DIR.		SPEED OR FORCE		METER (mba)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						26		S10		054		156		5		20								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANDALTY-310°	± Δ D DYN. M. X 10 <sup>2</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C							
		STD	0000	1886	3526	2527	0027097	0000	15193															
	127	OBS	0000	1886	35255	2527			15193															
		STD	0010	1887	3526	2527	0027146	0027	15195															
		STD	0020	1888	3526	2527	0027188	0054	15196															
	127	OBS	0022	1888	35258	2527			15197															
		STD	0030	1888	3526	2527	0027196	0081	15198															
	127	OBS	0044	1887	35266	2528			15200															
		STD	0050	1857	3541	2546	0025446	0134	15194															
		STD	0075	1757	3589	2608	0019683	0191	15175															
	127	OBS	0087	1725	36061	2629			15170															
		STD	0100	1719	3619	2640	0016709	0236	15172															
		STD	0125	1698	3633	2656	0015294	0276	15171															
	127	OBS	0130	1692	36340	2658			15171															
		STD	0150	1668	3629	2660	0014984	0314	15166															
	127	OBS	0176	1613	36179	2664			15152															
		STD	0200	1525	3598	2669	0014239	0387	15127															
	127	OBS	T0216	1477	35878	2672			15113															
		STD	0250	1408	3579	2680	0013314	0456	15095															
	127	OBS	0259	1393	35769	2681			15091															
		STD	0300	1350	3576	2690	0012497	0520	15084															
	127	OBS	0344	1318	35751	2696			15080															
		STD	0400	1305	3576	2699	0011887	0642	15085															
	127	OBS	T0432	1297	35761	2701			15088															
		STD	0500	1179	3553	2706	0011373	0759	15056															
	127	OBS	0521	1139	35468	2709			15045															
		STD	0600	0932	3521	2725	0009545	0863	14980															
	127	OBS	T0695	0742	35005	2738			14921															
		STD	0700	0736	3500	2739	0008164	0952	14920															
		STD	0800	0625	3498	2753	0006852	1027	14892															
	127	OBS	0884	0552	34968	2761			14877															
		STD	0900	0543	3497	2762	0005938	1091	14876															
		STD	1000	0491	3498	2769	0005293	1147	14871															
		STD	1100	0453	3499	2774	0004840	1198	14873															
	127	OBS	T1112	0449	34989	2775			14873															
		STD	1200	0433	3497	2775	0004815	1246	14881															
		STD	1300	0417	3495	2775	0004852	1294	14891															
	127	OBS	T1331	0413	34949	2775			14894															
		STD	1400	0406	3495	2776	0004823	1343	14903															
		STD	1500	0397	3494	2777	0004818	1391	14916															
		STD	1750	0377	3494	2778	0004832	1511	14950															
	162	OBS	T1915	0366	34930	2779			14973															
		STD	2000	0363	3493	2779	0004873	1633	14986															
	162	OBS	T2482	0343	34938	2782			15060															
		STD	2500	0342	3494	2782	0004886	1877	15063															
		STD	3000	0313	3494	2785	0004791	2119	15137															
	162	OBS	T3073	0308	34943	2785			15147															
	162	OBS	T3665	0269	34924	2787			15234															
	162	OBS	3712	0267	34922	2787			15241															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER	SEA	TYPE
31	772	HU	4358 N	04047 W	149	30	10	25	193	1966	OSD 010	4598	15	07	5	X	X	1	8	3	0010		
		WATER		WIND		AIR TEMP. °C																	
		COLOR CODE		FRANK. (MI)		DIR.		SPEED OF FORCE		BARO-METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						08		528		125		177		172		7		15					
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S.C.C.						
		STD	0000	1838	3513	2529	0026891	0000	15177														
193		OBS	0000	1838	35125	2529			15177														
		STD	0010	1839	3513	2529	0026919	0027	15179														
		STD	0020	1841	3513	2529	0026982	0054	15181														
193		OBS	0024	1841	35132	2529			15182														
		STD	0030	1841	3514	2529	0026991	0081	15183														
193		OBS	0047	1842	35148	2530			15187														
		STD	0050	1831	3526	2541	0025914	0134	15185														
		STD	0075	1749	3597	2616	0018916	0190	15174														
193		OBS	0090	1710	36221	2644			15168														
		STD	0100	1699	3622	2647	0016069	0234	15166														
		STD	0125	1660	3620	2655	0015382	0273	15158														
193		OBS	0135	1641	36193	2659			15154														
		STD	0150	1605	3613	2662	0014736	0310	15145														
193		OBS	0179	1529	35996	2669			15125														
		STD	0200	1458	3586	2674	0013693	0382	15104														
193		OBS	T0224	1394	35744	2679			15086														
		STD	0250	1348	3568	2684	0012900	0448	15074														
193		OBS	0270	1323	35652	2687			15069														
		STD	0300	1319	3571	2692	0012235	0511	15073														
193		OBS	0359	1310	35749	2697			15080														
		STD	0400	1293	3573	2699	0011855	0631	15081														
193		OBS	0453	1240	35650	2703			15071														
		STD	0500	1151	3550	2709	0011067	0746	15046														
193		OBS	0547	1060	35359	2715			15020														
		STD	0600	0932	3522	2726	0009472	0849	14980														
		STD	0700	0736	3504	2742	0007870	0935	14920														
193		OBS	T0736	0680	34995	2746			14904														
		STD	0800	0615	3499	2755	0006638	1008	14889														
		STD	0900	0533	3497	2763	0005797	1070	14872														
193		OBS	0937	0509	34969	2766			14868														
		STD	1000	0487	3496	2768	0005380	1126	14870														
		STD	1100	0457	3496	2771	0005098	1178	14874														
		STD	1200	0432	3495	2773	0004949	1229	14880														
193		OBS	T1207	0430	34947	2773			14880														
		STD	1300	0412	3494	2775	0004860	1278	14888														
		STD	1400	0397	3493	2776	0004831	1326	14899														
193		OBS	T1472	0390	34925	2776			14908														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INCLIN °/10	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER		
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	NO. OBS. DEPTHS			SPECIAL OBSERVATIONS								
10"	1"					MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DRY BULB		WET BULB	VIS CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
31	772	HU	4356 N	04107 W		149	31	10	26	118	1966	OSD	011	4572	15	09	4	4		X2	5	8		0011	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> × 10 <sup>3</sup>	Σ Δ D DYN. M. × 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg-at/l	TOTAL-P μg-at/l	NO <sub>2</sub> -N μg-at/l	NO <sub>3</sub> -N μg-at/l	SiO <sub>2</sub> -Si μg-at/l	pH	S C C								
		STD	0000	1892	3544	2540	0025907	0000	15196																
118		OBS	0000	1892	35439	2540			15196																
		STD	0010	1893	3544	2539	0025961	0026	15198																
		STD	0020	1894	3544	2539	0026016	0052	15200																
118		OBS	0025	1894	35439	2539			15201																
		STD	0030	1894	3544	2539	0026041	0078	15202																
		STD	0050	1893	3545	2540	0026018	0130	15205																
118		OBS	0050	1893	35451	2540			15205																
		STD	0075	1799	3591	2599	0020523	0188	15188																
118		OBS	0097	1739	36171	2634			15177																
		STD	0100	1735	3618	2635	0017151	0235	15176																
		STD	0125	1705	3623	2646	0016181	0277	15172																
118		OBS	0147	1678	36251	2654			15168																
		STD	0150	1676	3625	2655	0015456	0316	15168																
118		OBS	0195	1617	36184	2664			15157																
		STD	0200	1602	3615	2664	0014684	0392	15153																
118		OBS	T0245	1477	35900	2673			15118																
		STD	0250	1462	3587	2674	0013853	0463	15113																
118		OBS	0290	1366	35704	2682			15087																
		STD	0300	1365	3570	2682	0013229	0531	15088																
118		OBS	0385	1300	35677	2693			15080																
		STD	0400	1265	3561	2695	0012181	0658	15070																
118		OBS	T0484	1090	35318	2706			15020																
		STD	0500	1063	3529	2709	0011002	0774	15012																
118		OBS	0585	0923	35171	2723			14974																
		STD	0600	0891	3515	2727	0009308	0875	14964																
		STD	0700	0712	3502	2744	0007660	0960	14911																
118		OBS	T0786	0599	34949	2753			14879																
		STD	0800	0590	3495	2755	0006587	1031	14878																
		STD	0900	0531	3496	2763	0005844	1094	14871																
118		OBS	0992	0488	34966	2768			14869																
		STD	1000	0486	3497	2769	0005323	1149	14869																
		STD	1100	0459	3496	2771	0005109	1202	14875																
		STD	1200	0436	3496	2774	0004942	1252	14882																
118		OBS	T1260	0424	34955	2775			14887																
		STD	1300	0417	3495	2775	0004852	1301	14891																
		STD	1400	0402	3495	2777	0004749	1349	14901																
		STD	1500	0391	3494	2777	0004768	1396	14913																
118		OBS	T1533	0388	34933	2777			14917																

TABLE III.—Continued

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	TIME ZONE	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGS	PER	SEA		TYPE	AMT		
31	772	HU	44073N	041055W		149	41	10	27	137	1966	OSD	012	4599	45	09	3	3	X2	5	8	0012		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB												
								04	510	098	183	183	8	21										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C							
		STD	0000	1775	3480	2520	0027803	0000	15155															
	120	OBS	0000	1775	34796	2520			15155															
		STD	0010	1772	3479	2520	0027820	0028	15156															
		STD	0020	1768	3478	2520	0027840	0056	15156															
	120	OBS	0026	1766	34773	2520			15157															
		STD	0030	1771	3486	2525	0027341	0083	15160															
		STD	0050	1796	3530	2553	0024784	0135	15175															
	120	OBS	0052	1798	35340	2556			15177															
		STD	0075	1752	3590	2610	0019494	0191	15174															
	120	OBS	0094	1722	36214	2641			15172															
		STD	0100	1718	3622	2642	0016476	0236	15172															
		STD	0125	1701	3624	2648	0016007	0276	15171															
		STD	0150	1684	3626	2654	0015546	0316	15171															
	120	OBS	0155	1681	36269	2655			15171															
		STD	0200	1568	3605	2665	0014663	0391	15141															
	120	OBS	0207	1552	36019	2666			15137															
		STD	0250	1457	3586	2675	0013821	0462	15112															
	120	OBS	T0259	1438	35830	2676			15107															
		STD	0300	1355	3570	2684	0013035	0530	15085															
	120	OBS	0310	1339	35674	2685			15081															
		STD	0400	1285	3566	2695	0012244	0656	15077															
	120	OBS	0415	1263	35652	2699			15072															
		STD	0500	1046	3531	2713	0010555	0770	15007															
	120	OBS	T0520	1002	35254	2717			14993															
		STD	0600	0856	3513	2731	0008890	0867	14951															
	120	OBS	0625	0815	35093	2734			14939															
		STD	0700	0696	3502	2746	0007426	0949	14904															
		STD	0800	0577	3496	2757	0006336	1018	14873															
	120	OBS	T0838	0544	34943	2760			14866															
		STD	0900	0525	3496	2764	0005764	1078	14868															
		STD	1000	0495	3497	2768	0005411	1134	14873															
	120	OBS	1050	0481	34974	2770			14876															
		STD	1100	0466	3497	2771	0005156	1187	14878															
		STD	1200	0439	3496	2773	0004996	1238	14883															
		STD	1300	0417	3495	2775	0004888	1287	14891															
	120	OBS	1322	0413	34942	2775			14893															
		STD	1400	0403	3494	2776	0004843	1336	14901															
		STD	1500	0391	3494	2777	0004805	1384	14913															
	120	OBS	T1590	0382	34932	2777			14925															
		STD	1750	0375	3493	2778	0004813	1504	14949															
		STD	2000	0364	3494	2779	0004850	1625	14986															
	137	OBS	T2091	0360	34937	2780			15000															
		STD	2500	0340	3494	2782	0004864	1868	15062															
	137	OBS	2652	0332	34940	2783			15085															
		STD	3000	0312	3494	2785	0004776	2109	15136															
	137	OBS	T3206	0299	34934	2785			15166															
		STD	3778	0258	34923	2788			15249															
		STD	4000	0246	3491	2788	0004483	2572	15283															
	137	OBS	T4308	0235	34904	2789			15332															
		STD	4498	0232	34904	2789			15365															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			
31	772	HU	43531N	04109 W	149	31	10	28	125	1966	OSD	013	4572	07	06	4	3	X2	5	8	0013
WATER		WIND		BARO- METER (mbal)	AIR TEMP °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANSL (ml)	DIR.	SPEED OR FORCL		DRY BULB	WET BULB															
				03	S21	098	172	172	6	12											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\frac{\Delta}{D}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SI CC				
		STD	0000	1903	3516	2516	0028170	0000	15196												
125		OBS	0000	1903	35164	2516			15196												
		STD	0010	1903	3516	2516	0028224	0028	15198												
		STD	0020	1902	3516	2515	0028285	0056	15199												
125		OBS	0024	1902	35153	2515			15200												
		STD	0030	1878	3521	2526	0027334	0084	15195												
125		OBS	0047	1824	35413	2555			15185												
		STD	0050	1822	3550	2562	0023958	0136	15185												
		STD	0075	1802	3609	2612	0019288	0190	15191												
125		OBS	0095	1782	36371	2638			15192												
		STD	0100	1777	3637	2640	0016752	0235	15191												
		STD	0125	1746	3636	2647	0016156	0276	15186												
125		OBS	0141	1720	36360	2653			15181												
		STD	0150	1705	3633	2654	0015539	0315	15178												
125		OBS	0189	1618	36163	2662			15156												
		STD	0200	1573	3608	2666	0014554	0391	15143												
125		OBS	T0235	1468	35885	2674			15113												
		STD	0250	1458	3588	2676	0013696	0461	15112												
125		OBS	0283	1424	35844	2681			15106												
		STD	0300	1388	3578	2683	0013121	0528	15097												
125		OBS	0375	1241	35533	2694			15057												
		STD	0400	1198	3547	2698	0011919	0654	15046												
125		OBS	T0470	1081	35327	2708			15014												
		STD	0500	1035	3529	2714	0010508	0766	15002												
125		OBS	0560	0942	35210	2723			14977												
		STD	0600	0880	3516	2730	0009056	0863	14960												
		STD	0700	0724	3505	2744	0007617	0947	14916												
125		OBS	T0744	0655	35002	2750			14895												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MOON PHASE	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLYS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTR CODE	ID. NO.					10"	T"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
		WATER	WIND	BARO-		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
COLD CODE	TRANS. mm			DIR.	SPEED OF FORCE	METER (mbaf)	DRY BULB			WET BULB														
						36	S25	203	156	156	7	15												
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Delta$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - ml/l	TOTAL-P µg - ml/l	NO <sub>3</sub> -N µg - ml/l	NO <sub>2</sub> -N µg - ml/l	SiO <sub>4</sub> -Si µg - ml/l	pH	ST C							
183		STD	0000	1867	3515	2524	0027387	0000	15186															
		OBS	0000	1867	35152	2524			15186															
		STD	0010	1868	3515	2524	0027441	0027	15188															
		STD	0020	1869	3515	2524	0027487	0055	15190															
183		OBS	0025	1869	35153	2524			15191															
		STD	0030	1869	3515	2523	0027543	0082	15192															
183		OBS	0048	1870	35146	2523			15195															
		STD	0050	1870	3522	2528	0027137	0137	15196															
		STD	0075	1857	3599	2590	0021326	0198	15205															
183		OBS	0076	1825	36345	2626			15204															
		STD	0100	1813	3634	2628	0017822	0247	15201															
		STD	0125	1742	3628	2641	0016672	0290	15184															
183		OBS	0138	1706	36246	2647			15175															
		STD	0150	1671	3620	2652	0015706	0330	15166															
183		OBS	0174	1610	36121	2660			15150															
		STD	0200	1563	3608	2668	0014335	0405	15140															
183		OBS	T0209	1544	36048	2670			15135															
		STD	0250	1434	3583	2677	0013559	0475	15104															
183		OBS	0251	1432	35826	2677			15103															
		STD	0300	1375	3576	2684	0013002	0541	15092															
183		OBS	0333	1337	35713	2689			15084															
		STD	0400	1270	3564	2697	0012059	0667	15072															
183		OBS	T0417	1243	35602	2699			15065															
		STD	0500	1050	3529	2711	0010772	0781	15008															
183		OBS	0503	1044	35282	2711			15006															
		STD	0600	0869	3513	2729	0009098	0880	14956															
183		OBS	T0677	0751	35042	2740			14922															
		STD	0700	0718	3503	2744	0007676	0964	14913															
		STD	0800	0597	3498	2756	0006462	1035	14881															
183		OBS	0865	0537	34956	2762			14867															
		STD	0900	0523	3496	2764	0005753	1096	14868															
		STD	1000	0486	3496	2768	0005352	1151	14869															
		STD	1100	0456	3497	2772	0005033	1203	14874															
183		OBS	T1119	0451	34968	2773			14875															
		STD	1200	0432	3496	2774	0004876	1253	14880															
		STD	1300	0414	3496	2776	0004739	1301	14890															
183		OBS	T1382	0404	34945	2776			14899															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC INCLIN	MAGNETIC SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CITY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
																								10"	1'	MO	DAY
31	772	HU	44016N	040438W	149	40	10	30	129	1966	OSD	015	4526	12	02	4	4	X	2	8	8	0015					
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbars)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				05		S26		176		157		156		7		15											
MESSNGR TIME HR 1/10	CASST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	S Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-N µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	SIG										
		STD	0000	1667	3469	2537	0026134	0000	15122																		
129		OBS	0000	1667	34688	2537			15122																		
		STD	0010	1668	3469	2537	0026192	0026	15124																		
		STO	0020	1669	3469	2537	0026256	0052	15126																		
129		OBS	0023	1669	34685	2536			15126																		
		STD	0030	1669	3469	2537	0026287	0079	15127																		
129		OBS	0040	1669	34687	2537			15129																		
		STD	0050	1683	3510	2565	0023650	0129	15140																		
		STD	0075	1704	3587	2619	0018607	0181	15159																		
129		OBS	0080	1706	35974	2626			15162																		
		STD	0100	1700	3621	2646	0016121	0225	15166																		
129		OBS	0115	1695	36273	2652			15168																		
		STD	0125	1656	3620	2656	0015285	0264	15157																		
		STD	0150	1576	3606	2663	0014607	0301	15135																		
129		OBS	0150	1576	36060	2663			15135																		
129		OBS	T0194	1490	35911	2671			15114																		
		STD	0200	1471	3588	2673	0013820	0373	15108																		
129		OBS	0220	1415	35806	2680			15093																		
		STD	0250	1372	3574	2684	0012945	0439	15083																		
129		OBS	0295	1304	35637	2690			15066																		
		STD	0300	1295	3562	2690	0012427	0503	15064																		
129		OBS	T0367	1185	35466	2700			15036																		
		STD	0400	1143	3544	2706	0011114	0621	15026																		
129		OBS	0445	1081	35382	2713			15011																		
		STD	0500	0983	3528	2722	0009684	0725	14983																		
		STD	0600	0819	3510	2734	0008563	0816	14936																		
129		OBS	T0602	0816	35091	2734			14936																		
		STD	0700	0664	3501	2750	0007038	0894	14892																		
129		OBS	0760	0593	34980	2757			14873																		
		STD	0800	0569	3498	2760	0006080	0959	14870																		
		STD	0900	0515	3498	2766	0005485	1017	14865																		
129		OBS	0977	0482	34973	2770			14864																		
		STD	1000	0473	3497	2770	0005124	1070	14864																		
		STD	1100	0443	3497	2774	0004843	1120	14868																		
		STD	1200	0423	3496	2775	0004760	1168	14877																		
129		OBS	T1218	0421	34955	2775			14879																		

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
CIR CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR				HGT	PER	SEA
31	772	HU	43568N	040496W	149	30	10	31	124	1966	050	016	4590	19	15	4	3	X2	3	8	0016	
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
				COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS CODE												
						12	524	119	178	172	7	15										
MESSAGE TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CLC					
		STD	0000	1738	3481	2530	0026834	0000	15145													
124		OBS	0000	1738	34812	2530			15145													
		STD	0010	1736	3481	2530	0026837	0027	15146													
		STD	0020	1734	3481	2530	0026839	0054	15147													
		STD	0030	1732	3481	2531	0026842	0081	15148													
124		OBS	0031	1732	34806	2531			15148													
		STD	0050	1907	3553	2543	0025787	0133	15210													
124		OBS	0061	1964	35848	2552			15231													
		STD	0075	1892	3601	2583	0022030	0193	15216													
		STD	0100	1782	3622	2627	0017958	0243	15191													
124		OBS	0121	1708	36303	2651			15173													
		STD	0125	1703	3629	2651	0015699	0285	15172													
		STD	0150	1661	3622	2656	0015334	0324	15163													
124		OBS	0181	1593	36104	2663			15146													
		STD	0200	1525	3598	2669	0014239	0398	15127													
124		OBS	0241	1406	35768	2679			15093													
		STD	0250	1389	3575	2681	0013231	0466	15088													
		STD	0300	1304	3564	2689	0012494	0531	15067													
124		OBS	T0302	1301	35630	2690			15066													
124		OBS	0360	1220	35534	2698			15047													
		STD	0400	1146	3541	2703	0011389	0650	15027													
124		OBS	0478	1004	35224	2714			14987													
		STD	0500	0962	3519	2718	0009988	0757	14975													
		STD	0600	0791	3507	2736	0008320	0849	14925													
124		OBS	T0600	0791	35069	2736			14925													
		STD	0700	0650	3500	2751	0006913	0925	14886													
124		OBS	0724	0623	34989	2754			14879													
		STD	0800	0572	3499	2760	0006077	0990	14871													
		STD	0900	0517	3498	2766	0005497	1048	14866													
124		OBS	T0975	0484	34979	2770			14864													
		STD	1000	0477	3498	2770	0005132	1101	14866													
		STD	1100	0452	3497	2772	0004989	1151	14872													
		STD	1200	0431	3496	2774	0004899	1201	14880													
124		OBS	1224	0426	34952	2774			14882													
		STD	1300	0413	3495	2775	0004814	1249	14889													
		STD	1400	0398	3494	2776	0004756	1297	14899													
		STD	1500	0386	3494	2777	0004732	1345	14911													
124		OBS	1543	0382	34933	2777			14917													
		STD	1750	0368	3493	2779	0004733	1463	14946													
124		OBS	T1863	0365	34932	2779			14964													



TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	772	HU	4400 N	04124 W	149	41	11	02	135	1966	OSD	017	4572	13	33	5	3	X1	8	5	0017	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (mm)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB													
					05	S21	315	183	178	8	15											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.					
		STD	0000	1729	3532	2571	0022917	0000	15148													
135		OBS	0000	1729	35322	2571			15148													
		STD	0010	1713	3535	2577	0022380	0023	15145													
		STD	0020	1696	3538	2583	0021609	0045	15142													
135		OBS	0023	1691	35385	2585			15141													
		STD	0030	1677	3539	2589	0021340	0066	15138													
135		OBS	0045	1649	35408	2597			15132													
		STD	0050	1632	3542	2602	0020152	0108	15128													
		STD	0075	1575	3551	2621	0018384	0156	15116													
135		OBS	0095	1561	35572	2629			15116													
		STD	0100	1578	3568	2634	0017260	0201	15123													
		STD	0125	1629	3606	2651	0015697	0242	15147													
135		OBS	0140	1630	36160	2659			15151													
		STD	0150	1602	3611	2661	0014815	0280	15144													
135		OBS	0180	1528	35972	2668			15124													
		STD	0200	1486	3590	2671	0013990	0352	15113													
135		OBS	T0228	1435	35818	2676			15101													
		STD	0250	1401	3578	2681	0013243	0420	15093													
135		OBS	0260	1386	35763	2682			15089													
		STD	0300	1342	3571	2687	0012701	0485	15081													
135		OBS	0340	1294	35657	2693			15071													
		STD	0400	1224	3558	2701	0011609	0606	15056													
135		OBS	T0434	1164	35490	2706			15040													
		STD	0500	1001	3523	2715	0010358	0716	14989													
135		OBS	0510	0979	35199	2716			14983													
		STD	0600	0819	3508	2733	0008673	0811	14936													
135		OBS	T0678	0707	35018	2744			14905													
		STD	0700	0682	3501	2747	0007296	0891	14899													
		STD	0800	0585	3499	2758	0006224	0959	14877													
135		OBS	0860	0540	34985	2764			14868													
		STD	0900	0523	3498	2765	0005590	1018	14868													
		STD	1000	0484	3498	2770	0005194	1072	14869													
135		OBS	T1088	0456	34975	2773			14872													
		STD	1100	0453	3497	2773	0004943	1122	14872													
		STD	1200	0428	3496	2775	0004795	1171	14879													
		STD	1300	0411	3495	2776	0004744	1219	14888													
135		OBS	T1325	0408	34951	2776			14891													

TABLE IV. Observed and interpolated oceanographic data for stations taken by USCGC CHINCO-TEAGUE at Ocean Station DELTA, 26 November-17 December 1966, prepared from NODC listing No. 31-826 CC.

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE Amt	NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
31	826	CC	4355 N	04102 W		149	31	11	26	162	1966	005	001	4023	14	14	5	3	X5	7	8	0001
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	NO.	DRY BULB	WET BULB	VIS. CODE													
					14	518	251	183	183	6	15											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	STATION					
		STD	0000	1777	3579	2595	0020600	0000	15168													
	162	OBS	0000	1777	35793	2595			15168													
		STD	0010	1778	3580	2596	0020614	0021	15170													
		STD	0020	1780	3581	2596	0020634	0041	15172													
	162	OBS	0023	1780	35808	2596			15173													
		STD	0030	1780	3582	2596	0020612	0062	15174													
	162	OBS	0045	1779	35830	2598			15176													
		STD	0050	1779	3593	2605	0019815	0102	15178													
		STD	0075	1777	3630	2634	0017177	0149	15186													
	162	OBS	0091	1776	36429	2644			15190													
		STD	0100	1759	3642	2648	0015968	0190	15186													
		STD	0125	1711	3637	2656	0015302	0229	15176													
	162	OBS	0138	1686	36339	2659			15170													
		STD	0150	1668	3630	2661	0014912	0267	15166													
	162	OBS	0184	1599	36161	2666			15149													
		STD	0200	1545	3606	2671	0014089	0339	15134													
	162	OBS	T0231	1465	35915	2677			15112													
		STD	0250	1439	3589	2681	0013226	0408	15106													
	162	OBS	0277	1405	35861	2685			15099													
		STD	0300	1394	3583	2688	0012675	0472	15096													
	162	OBS	0371	1302	35713	2696			15079													
		STD	0400	1260	3564	2699	0011865	0595	15069													
	162	OBS	T0466	1148	35476	2708			15039													
		STD	0500	1071	3537	2713	0010559	0707	15016													
	162	OBS	0560	0947	35210	2722			14979													
		STD	0600	0876	3518	2732	0008844	0804	14959													
		STD	0700	0723	3510	2740	0007235	0885	14916													
	162	OBS	T0749	0661																		
		STD	0800	0608	3505	2760	0006099	0951	14887													
		STD	0900	0525	3501	2767	0005396	1000	14869													
	162	OBS	0941	0499	35000	2770			14865													
		STD	1000	0481	3500	2772	0005007	1061	14868													
		STD	1100	0454	3500	2775	0004764	1110	14873													
	162	OBS	1184	0435	34995	2777			14879													
		STD	1200	0432	3499	2777	0004655	1157	14881													
		STD	1300	0414	3498	2778	0004592	1203	14890													
		STD	1400	0400	3497	2778	0004577	1249	14901													
	162	OBS	T1430	0397	34964	2778			14904													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CIR- CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT	
31	826	CC	43598N	041022W	149	31	11	30	127	1966	005	002	4572	11	20	4	4	X1	4	6	0002		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS									
		COLOR		DIR.		SPEED OF FORCE		DRY BULB		WET BULB													
		21		S17		271		183		183		6		14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 <sup>3</sup>	Σ Δ D OYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	Si O <sub>4</sub> -Si µg - dl/l	pH	S C						
		STD	0000	1765	3562	2585	0021600	0000	15162														
127		OBS	0000	1765	35617	2585			15162														
		STD	0010	1765	3562	2585	0021607	0022	15164														
		STD	0020	1766	3563	2585	0021614	0043	15166														
127		OBS	0024	1766	35629	2586			15166														
		STD	0030	1767	3566	2588	0021431	0065	15168														
127		OBS	0047	1769	35718	2592			15172														
		STD	0050	1754	3571	2595	0020837	0107	15168														
		STD	0075	1658	3564	2612	0019239	0157	15143														
127		OBS	0092	1627	35593	2616			15136														
		STD	0100	1635	3574	2625	0018083	0204	15141														
		STD	0125	1661	3608	2645	0016263	0247	15157														
127		OBS	0136	1672	36156	2649			15163														
		STD	0150	1642	3614	2654	0015488	0286	15156														
127		OBS	0180	1576	36068	2664			15140														
		STD	0200	1531	3598	2668	0014369	0361	15128														
127		OBS	T0223	1480	35900	2673			15115														
		STD	0250	1420	3583	2680	0013269	0430	15099														
127		OBS	0266	1389	35786	2684			15091														
		STD	0300	1345	3571	2687	0012761	0495	15082														
127		OBS	0354	1290	35639	2693			15071														
		STD	0400	1283	3563	2693	0012394	0621	15076														
127		OBS	T0443	1237	35620	2702			15068														
		STD	0500	1096	3538	2710	0010935	0738	15025														
127		OBS	0529	1029	35276	2714			15005														
		STD	0600	0877	3513	2728	0009227	0838	14959														
127		OBS	T0698	0712	35000	2742			14910														
		STD	0700	0710	3500	2743	0007778	0923	14910														
		STD	0800	0608	3499	2756	0006541	0995	14886														
127		OBS	0874	0550	34983	2762			14875														
		STD	0900	0533	3498	2764	0005701	1056	14872														
		STD	1000	0486	3498	2770	0005205	1111	14869														
		STD	1100	0466	3498	2772	0005060	1162	14878														
127		OBS	T1111	0466	34981	2772			14880														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	GROUP INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOD STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			OIL	HGT	PER				SEA		
31	826	CC	43563N	040572W		149	30	12	01	135	1966	D05	003		4572	36	22	2	1	X1	3	5		0003
								WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
								COLOR CODE	TRANS. (m)	OIL	SPEED OR FORCE	BARO. METER (mbal)	DRY BULB	WET BULB	VIS. CODE									
										22	504	244	189	183	7	18								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ ρ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	SEC							
		STD	0000	1769	3562	2584	0021701	0000	15163															
	135	OBS	0000	1769	35616	2584			15163															
		STD	0010	1768	3561	2584	0021730	0022	15165															
		STD	0020	1767	3561	2584	0021750	0043	15166															
	135	OBS	0024	1767	35612	2584			15167															
		STD	0030	1775	3563	2583	0021840	0065	15170															
		STD	0050	1776	3566	2585	0021720	0109	15174															
	135	OBS	0050	1776	35659	2585			15174															
		STD	0075	1666	3561	2608	0019644	0161	15145															
	135	OBS	0099	1603	35560	2619			15129															
		STD	0100	1603	3558	2620	0018535	0208	15129															
		STD	0125	1604	3593	2647	0016078	0252	15138															
	135	OBS	0148	1604	36087	2659			15144															
		STD	0150	1599	3608	2660	0014967	0290	15143															
	135	OBS	0198	1493	35909	2671			15115															
		STD	0200	1488	3590	2671	0014033	0363	15114															
		STD	0250	1393	3574	2679	0013371	0431	15090															
	135	OBS	T0252	1390	35738	2680			15089															
	135	OBS	0298	1334	35688	2687			15077															
		STD	0300	1333	3569	2688	0012681	0496	15077															
	135	OBS	0397	1285	35679	2697			15077															
		STD	0400	1276	3566	2697	0012031	0620	15074															
	135	OBS	T0497	1034	35254	2711			15001															
		STD	0500	1029	3525	2712	0010696	0734	15000															
	135	OBS	0596	0873	35095	2726			14956															
		STD	0600	0866	3510	2727	0009307	0834	14954															
		STD	0700	0711	3509	2750	0007123	0916	14911															
	135	OBS	T0791	0606	35088	2764			14885															
		STD	0800	0600	3508	2764	0005767	0980	14884															
		STD	0900	0542	3501	2765	0005623	1037	14876															
	135	OBS	0996	0498	34959	2767			14873															
		STD	1000	0497	3496	2767	0005519	1093	14874															
		STD	1100	0469	3495	2769	0005342	1147	14879															
		STD	1200	0444	3494	2771	0005200	1200	14885															
	135	OBS	T1247	0434	34932	2772			14889															
		STD	1300	0428	3495	2774	0004995	1251	14895															
		STD	1400	0418	3498	2777	0004739	1300	14908															
		STD	1500	0408	3501	2781	0004481	1346	14921															
		STD	1750	0386	3506	2787	0004044	1452	14955															
		STD	2000	0367	3508	2791	0003847	1551	14990															
	162	OBS	T2009	0366	35082	2791			14991															
		STD	2500	0338	3503	2790	0004151	1751	15062															
	162	OBS	T2538	0336	35030	2790			15068															
		STD	3000	0305	3500	2790	0004240	1961	15134															
	162	OBS	3056	0301	34997	2790			15142															
	162	OBS	T3574	0262	34955	2791			15215															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MAGNETIC INCLIN.	MARKSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	826	CC	43571N	040563W	149	30	12	02	126	1966	D05	004	4572	15	22	1	2	X2	4	6	0004		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. M		SPEED OR FORCE		DRY BULB		WET BULB		VIL CODE											
				21		S13		278		189		183		7		15							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMAST-2107	Σ Δ σ DYN. M. x 10 <sup>2</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C						
		STD	0000	1761	3563	2587	0021391	0000	15161														
126		OBS	0000	1761	35633	2587			15161														
		STD	0010	1758	3564	2588	0021336	0021	15162														
		STD	0020	1755	3564	2589	0021288	0043	15163														
126		OBS	0024	1754	35639	2589			15163														
		STD	0030	1775	3574	2592	0021041	0064	15171														
126		OBS	0047	1806	35954	2601			15186														
		STD	0050	1792	3595	2604	0019953	0105	15182														
		STD	0075	1702	3595	2626	0017951	0152	15160														
126		OBS	0095	1665	35954	2635			15152														
		STD	0100	1670	3601	2638	0016888	0196	15155														
		STD	0125	1692	3622	2649	0015956	0237	15168														
126		OBS	0145	1710	36342	2654			15178														
		STD	0150	1696	3637	2659	0015042	0276	15175														
126		OBS	0193	1573	36433	2693			15146														
		STD	0200	1546	3635	2693	0012002	0343	15138														
126		OBS	T0244	1422	36019	2694			15101														
		STD	0250	1415	3601	2695	0011855	0403	15100														
126		OBS	0290	1376	35956	2699			15093														
		STD	0300	1374	3595	2699	0011597	0461	15094														
126		OBS	0385	1311	35856	2705			15086														
		STD	0400	1281	3581	2708	0011035	0575	15078														
126		OBS	T0481	1131																			
		STD	0500	1104	3551	2718	0010130	0680	15030														
126		OBS	0578	0985	35324	2725			14998														
		STD	0600	0935	3528	2730	0009082	0776	14982														
		STD	0700	0743	3513	2748	0007314	0658	14924														
126		OBS	T0772	0640	35047	2756			14895														
		STD	0800	0618	3504	2758	0006312	0927	14890														
		STD	0900	0550	3500	2764	0005804	0987	14879														
126		OBS	0975	0510	34984	2767			14875														
		STD	1000	0502	3498	2768	0005430	1043	14876														
		STD	1100	0474	3498	2771	0005172	1096	14881														
		STD	1200	0450	3498	2774	0004963	1147	14888														
126		OBS	T1235	0443	34974	2774			14891														
		STD	1300	0431	3497	2775	0004887	1196	14897														
		STD	1400	0415	3496	2776	0004846	1245	14907														
126		OBS	1497	0403	34943	2776			14918														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ALICE NO.	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- TH- ER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS.		SPECIAL													
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	METER (mbal)	DRY BULB	WET BULB	VE. CODE	NO. OBS. DEPTHS	OBSERVATIONS														
		19	517	247	183	183	7	14															
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> ?	$\frac{\Delta \rho}{\rho}$ DYN. M. x 10 <sup>2</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>3</sub> -N µg - at/l	NO <sub>2</sub> -N µg - at/l	SiO <sub>4</sub> -S µg - at/l	pH	S C C						
		STD	0000	1652	3508	2571	0022951	0000	15122														
122		OBS	0000	1652	35079	2571			15122														
		STD	0010	1674	3538	2589	0021272	0022	15134														
		STD	0020	1695	3557	2598	0020408	0043	15144														
122		OBS	0025	1706	35616	2599			15149														
		STD	0030	1679	3556	2601	0020147	0063	15141														
		STD	0050	1596	3541	2609	0019499	0103	15117														
122		OBS	0050	1596	35405	2609			15117														
		STD	0075	1581	3552	2621	0018413	0150	15118														
		STD	0100	1574	3567	2634	0017231	0195	15122														
122		OBS	0100	1574	35672	2634			15122														
		STD	0125	1580	3594	2653	0015498	0236	15131														
		STD	0150	1587	3607	2662	0014769	0274	15139														
122		OBS	0151	1587	36072	2662			15139														
		STD	0200	1485	3592	2673	0013823	0345	15113														
122		OBS	0201	1483	35919	2674			15113														
122		OBS	T0248	1433	35879	2681			15104														
		STD	0250	1430	3588	2682	0013119	0412	15103														
122		OBS	0298	1365	35879	2696			15090														
		STD	0300	1364	3587	2695	0011977	0475	15090														
122		OBS	0396	1266	35641	2698			15070														
		STD	0400	1260	3563	2698	0011938	0595	15069														
122		OBS	T0498	1102	35381	2709			15027														
		STD	0500	1099	3538	2709	0010990	0709	15026														
122		OBS	0594	0947	35217	2723			14985														
		STD	0600	0934	3521	2725	0009578	0812	14981														
		STD	0700	0750	3508	2743	0007787	0899	14926														
122		OBS	T0791	0626	34999	2754			14892														
		STD	0800	0620	3500	2755	0006649	0971	14891														
		STD	0900	0554	3499	2762	0005954	1034	14881														
		STD	1000	0500	3498	2768	0005433	1091	14875														
122		OBS	1003	0499	34976	2768			14875														
		STD	1100	0458	3497	2772	0005037	1144	14874														
		STD	1200	0427	3496	2775	0004811	1193	14878														
		STD	1300	0408	3495	2776	0004735	1240	14887														
		STD	1400	0400	3495	2777	0004723	1288	14900														
122		OBS	T1450	0400	34945	2776			14909														

TABLE IV.—Continued

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA				
31	826	CC	43550N	040585W	149	30	12	04	125	1966	005	006	4572	16	21	5	2	X5	8	7	0006	
						WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	DIR.	SPEED OF FORCE	BARD-METER (mbst)	DRY BULB	WET BULB	VIL CODE									
								20	530	220	189	183	6	15								
MESSAGE TIME OF HR 1/10	CASI NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10 <sup>3</sup>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg-at/l	TOTAL-P μg-at/l	NO <sub>2</sub> -N μg-at/l	NO <sub>3</sub> -N μg-at/l	SiO <sub>2</sub> -Si μg-at/l	pH	S CC					
		STD	0000	1776	3571	2589	0021166	0000	15166													
125		OBS	0000	1776	35712	2589			15166													
		STD	0010	1778	3572	2589	0021213	0021	15169													
		STD	0020	1779	3572	2589	0021255	0042	15171													
125		OBS	0026	1780	35721	2589			15172													
		STD	0030	1788	3576	2590	0021199	0064	15175													
		STD	0050	1815	3595	2598	0020525	0105	15189													
125		OBS	0052	1816	35973	2599			15190													
		STD	0075	1807	3626	2624	0018173	0154	15194													
		STD	0100	1785	3643	2642	0016506	0197	15194													
125		OBS	0103	1781	36441	2644			15194													
		STD	0125	1744	3640	2650	0015848	0238	15186													
		STD	0150	1699	3634	2656	0015328	0277	15176													
125		OBS	0156	1688	36319	2657			15173													
		STD	0200	1600	3615	2665	0014640	0351	15152													
125		OBS	0207	1583	36119	2666			15147													
		STD	0250	1453	3586	2676	0013737	0422	15110													
125		OBS	T0259	1431	35821	2677			15104													
		STD	0300	1354	3574	2687	0012723	0489	15085													
125		OBS	0310	1340	35727	2689			15082													
		STD	0400	1305	3573	2696	0012121	0613	15085													
125		OBS	0413	1288	35726	2700			15081													
		STD	0500	1082	3538	2712	0010683	0727	15020													
125		OBS	T0517	1047	35329	2715			15010													
		STD	0600	0903	3517	2727	0009358	0827	14969													
125		OBS	0619	0872	35141	2729			14960													
		STD	0700	0746	3508	2744	0007726	0912	14925													
		STD	0800	0624	3502	2756	0006544	0984	14893													
125		OBS	T0825	0600	35011	2758			14887													
		STD	0900	0553	3500	2764	0005823	1046	14880													
		STD	1000	0502	3499	2769	0005334	1101	14876													
125		OBS	1028	0490	34990	2770			14876													
		STD	1100	0471	3498	2771	0005133	1154	14880													
		STD	1200	0448	3498	2774	0004937	1204	14887													
125		OBS	T1291	0430																		
		STD	1300	0428	3497	2775	0004848	1253	14896													
		STD	1400	0413	3496	2776	0004820	1301	14906													
		STD	1500	0400	3496	2778	0004740	1349	14917													
125		OBS	1557	0395	34953	2778			14925													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR				HGT	PER
31	826	CC	44000N	041000W	149	41	12	05	134	1966	005	007	4572	15	20	3	2	X1	2	4	0007
		WATER		WIND		AIR TEMP. °C															
		COLOR		DIR.		BAPO- METER		DRY		WET		VIS.		NO.		SPECIAL					
		CODE		SPEED OR FORCE		(mbars)		BULB		BULB		CODE		OBS. DEPTH		OBSERVATIONS					
				18		524		213		178		172		7		15					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C C				
		STD	0000	1675	3511	2567	0023259	0000	15129												
134		OBS	0000	1675	35107	2567			15129												
		STD	0010	1709	3527	2572	0022872	0023	15143												
		STD	0020	1726	3541	2578	0022273	0046	15151												
134		OBS	0027	1729	35492	2584			15154												
		STD	0030	1720	3552	2588	0021369	0067	15153												
		STD	0050	1672	3569	2613	0019109	0108	15144												
134		OBS	0054	1664	35720	2617			15142												
		STD	0075	1655	3589	2632	0017353	0154	15145												
		STD	0100	1636	3603	2647	0015991	0195	15145												
134		OBS	0109	1627	36060	2652			15144												
		STD	0125	1612	3605	2654	0015407	0234	15142												
		STD	0150	1576	3603	2661	0014825	0272	15135												
134		OBS	0164	1550	36020	2666			15129												
		STD	0200	1450	3588	2678	0013380	0343	15102												
134		OBS	0219	1404	35818	2683			15089												
		STD	0250	1334	3570	2688	0012475	0407	15070												
134		OBS	T0273	1298	35654	2692			15061												
		STD	0300	1284	3566	2695	0011956	0468	15061												
134		OBS	0324	1268	35655	2698			15059												
		STD	0400	1199	3555	2704	0011353	0585	15047												
134		OBS	0429	1164	35501	2706			15039												
		STD	0500	1058	3536	2715	0010401	0694	15011												
134		OBS	T0524	1019	35309	2718			15001												
		STD	0600	0882	3517	2730	0009015	0791	14961												
134		OBS	0617	0854	35145	2732			14953												
		STD	0700	0741	3509	2745	0007578	0874	14923												
		STD	0800	0632	3504	2756	0006509	0944	14896												
134		OBS	T0815	0618	35030	2757			14893												
		STD	0900	0559	3501	2763	0005853	1006	14883												
		STD	1000	0504	3500	2769	0005309	1062	14877												
134		OBS	1031	0490	34997	2771			14877												
		STD	1100	0474	3500	2772	0005047	1114	14881												
		STD	1200	0452	3500	2775	0004864	1163	14889												
		STD	1300	0431	3500	2777	0004689	1211	14897												
134		OBS	T1304	0430	34997	2777			14897												
		STD	1400	0410	3498	2778	0004634	1258	14905												
134		OBS	T1481	0394	34955	2778			14912												



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	826	CC	43592N	041020W	149	31	12	07	139	1966	D05	008	4572	14	15	4	3	X1	1	5	0008
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR		DIR.		METER		DRY		VIS. CODE									
				TRANS.		SPEED		METER		WET		NO. OBS.									
				CODE		OR FORCE		(mbal)		BULB		7									
				15		S21		217		183		172		7		15					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C C				
		STD	0000	1722	3545	2582	0021832	0000	15147												
139		OBS	0000	1722	35449	2582			15147												
		STD	0010	1723	3545	2582	0021873	0022	15150												
		STD	0020	1725	3546	2582	0021912	0044	15152												
139		OBS	0024	1725	35456	2582			15152												
		STD	0030	1734	3552	2585	0021690	0066	15157												
139		OBS	0047	1752	35679	2593			15167												
		STD	0050	1752	3569	2594	0020943	0108	15167												
		STD	0075	1755	3580	2601	0020293	0160	15174												
139		OBS	0092	1757	35908	2609			15178												
		STD	0100	1750	3602	2619	0018661	0208	15179												
		STD	0125	1721	3625	2644	0016404	0252	15177												
139		OBS	0136	1704	36302	2652			15175												
		STD	0150	1679	3627	2656	0015379	0292	15169												
139		OBS	0178	1620	36187	2663			15155												
		STD	0200	1557	3606	2668	0014350	0366	15138												
139		OBS	T0223	1501	35956	2672			15123												
		STD	0250	1452	3590	2679	0013425	0436	15111												
139		OBS	0262	1432	35873	2681			15106												
		STD	0300	1392	3581	2685	0012984	0502	15098												
139		OBS	0346	1329	35721	2691			15084												
		STD	0400	1226	3557	2700	0011720	0625	15056												
139		OBS	T0435	1163																	
		STD	0500	1055	3533	2713	0010568	0737	15010												
139		OBS	0526	1012	35274	2716			14998												
		STD	0600	0873	3513	2728	0009163	0835	14957												
		STD	0700	0721	3501	2742	0007867	0921	14914												
139		OBS	0711	0707	35002	2743			14910												
		STD	0800	0622	3500	2755	0006633	0993	14892												
		STD	0900	0546	3501	2765	0005706	1055	14878												
139		OBS	0915	0537	35006	2766			14876												
		STD	1000	0505	3500	2769	0005300	1110	14878												
		STD	1100	0472	3500	2773	0004999	1161	14881												
139		OBS	T1179	0450	34997	2775			14885												
		STD	1200	0445	3499	2775	0004824	1210	14886												
		STD	1300	0423	3498	2777	0004709	1258	14894												
		STD	1400	0407	3496	2777	0004741	1305	14903												
139		OBS	T1422	0404	34959	2777			14906												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT. METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 'SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER					
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT						
31	826	CC	44010N	040512W	149	40	12	09	190	1966	005	009	4572	15	16	4	3	X1	6	7	0009						
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						17		S19		156		183		172		6		15									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	SIC										
190		STD	0000	1757	3547	2575	0022513	0000	15158																		
		OBS	0000	1757	35466	2575			15158																		
		STD	0010	1759	3549	2577	0022421	0022	15161																		
		STD	0020	1761	3550	2577	0022430	0045	15163																		
190		OBS	0024	1762	35510	2577			15164																		
		STD	0030	1761	3552	2578	0022352	0067	15165																		
		STD	0050	1758	3553	2580	0022238	0112	15167																		
190		OBS	0050	1758	35530	2580			15167																		
		STD	0075	1711	3585	2616	0018912	0163	15161																		
		STD	0100	1655	3603	2643	0016416	0207	15151																		
190		OBS	0101	1653	36031	2643			15150																		
		STD	0125	1583	3598	2656	0015263	0247	15132																		
		STD	0150	1516	3591	2666	0014403	0284	15115																		
190		OBS	0153	1508	35902	2667			15113																		
		STD	0200	1400	3573	2677	0013443	0354	15084																		
190		OBS	0204	1393	35723	2678			15082																		
		STD	0250	1347	3571	2687	0012632	0419	15074																		
190		OBS	T0257	1342	35713	2688			15074																		
		STD	0300	1324	3571	2691	0012342	0481	15075																		
190		OBS	0313	1316	35709	2693			15074																		
		STD	0400	1237	3562	2702	0011566	0601	15061																		
190		OBS	0426	1194	35558	2705			15050																		
		STD	0500	0991	3521	2715	0010333	0710	14985																		
190		OBS	T0544	0892	35087	2722			14955																		
		STD	0600	0795	3506	2735	0008448	0804	14927																		
190		OBS	0665	0699	35039	2747			14900																		
		STD	0700	0662	3503	2752	0006862	0881	14891																		
		STD	0800	0572	3499	2760	0006047	0945	14871																		
		STD	0900	0503	3497	2767	0005402	1003	14860																		
190		OBS	T0916	0494	34966	2768			14859																		
		STD	1000	0466	3495	2770	0005182	1056	14861																		
		STD	1100	0438	3494	2772	0005000	1107	14866																		
190		OBS	1167	0423	34935	2773			14871																		
		STD	1200	0417	3494	2774	0004867	1156	14874																		
		STD	1300	0402	3494	2775	0004768	1204	14884																		
		STD	1400	0394	3494	2776	0004748	1252	14898																		
190		OBS	T1495	0393	34936	2776			14913																		

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INCL. IN INDEX	MARSON SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	OBSERVATIONS				TYPE	AMT					
														DIR			HGT			PER		SEA		
31	B26	CC	44019N	040595W		149	40	12	10	126	1966	D05	010	4572	25	13	3	3		X2	7	8	0010	
						WATER		WIND		BARO-METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB												
								01		S11	186	150	144	6	16									
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALT- $\sigma_{\theta}$	$\frac{\Delta \sigma}{\Delta T}$ M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	S/C							
		STD	0000	1607	3473	2554	0024535	0000	15104															
126		OBS	0000	1607	34726	2554			15104															
		STD	0010	1598	3475	2558	0024181	0024	15103															
		STD	0020	1590	3478	2562	0023848	0048	15103															
126		OBS	0025	1587	34791	2564			15103															
		STD	0030	1587	3497	2577	0022413	0072	15106															
		STD	0050	1576	3548	2619	0018510	0112	15112															
126		OBS	0050	1576	35481	2619			15112															
		STD	0075	1510	3544	2631	0017459	0157	15095															
		STD	0100	1463	3540	2638	0016827	0200	15083															
126		OBS	0101	1462	35402	2638			15083															
		STD	0125	1445	3542	2643	0016419	0242	15082															
		STD	0150	1428	3545	2649	0015917	0282	15081															
126		OBS	0153	1426	35456	2650			15081															
		STD	0200	1260	3558	2694	0011773	0351	15035															
126		OBS	0204	1251	35592	2697			15033															
		STD	0250	1252	3561	2698	0011553	0410	15041															
		STD	0300	1253	3562	2699	0011588	0468	15050															
126		OBS	0305	1253	35625	2699			15051															
		STD	0400	1103	3536	2707	0010973	0580	15011															
126		OBS	0407	1092	35343	2708			15008															
		STD	0500	0939	3515	2719	0009898	0685	14966															
126		OBS	T0509	0919	35130	2721			14959															
		STD	0600	0657	3498	2748	0007010	0769	14872															
126		OBS	0610	0636	34969	2750			14865															
		STD	0700	0598	3497	2755	0006421	0836	14865															
		STD	0800	0555	3497	2761	0005981	0898	14864															
126		OBS	T0811	0550	34968	2761			14864															
		STD	0900	0508	3497	2766	0005489	0956	14862															
		STD	1000	0469	3497	2771	0005102	1009	14862															
126		OBS	1007	0466	34966	2771			14862															
		STD	1100	0436	3495	2773	0004901	1059	14865															
		STD	1200	0410	3494	2775	0004741	1107	14871															
126		OBS	1249	0401	34933	2775			14875															
		STD	1300	0396	3493	2776	0004728	1154	14882															
		STD	1400	0388	3493	2776	0004715	1202	14895															
126		OBS	T1486	0382	34925	2777			14907															
		STD	1500	0382	3493	2777	0004754	1249	14909															
		STD	1750	0372	3493	2778	0004829	1369	14947															
		STD	2000	0362	3493	2779	0004893	1490	14986															
156		OBS	T2010	0362	34927	2779			14987															
		STD	2500	0341	3493	2781	0004943	1736	15062															
156		OBS	T2519	0340	34932	2781			15065															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH M	MARS DEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR	HGT			PER	SEA	TYPE	AMT				
31	826	CC	44027N	041062W	149	41	12	11	123	1966	D05	011	4572	13	32	2	3		X1	6	4	0011			
				WATER		WIND		BARO- METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
				COLOR CODE		TRANSL IMI		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE									
				34		S06		264		133		111		7		14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t^{20}$	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO <sub>2</sub> -N $\mu g - at/l$	NO <sub>3</sub> -N $\mu g - at/l$	SiO <sub>4</sub> -Si $\mu g - at/l$	pH	S C C								
		STD	0000	1596	3489	2569	0023114	0000	15103																
123		OBS	0000	1596	34888	2569			15103																
		STD	0010	1596	3507	2583	0021809	0022	15106																
		STD	0020	1595	3522	2595	0020737	0044	15110																
123		OBS	0025	1595	35287	2600			15111																
		STD	0030	1593	3534	2604	0019845	0064	15112																
		STD	0050	1581	3551	2620	0018407	0102	15114																
123		OBS	0051	1580	35518	2621			15114																
		STD	0075	1567	3553	2625	0018036	0148	15114																
		STD	0100	1537	3558	2635	0017103	0192	15109																
123		OBS	0102	1534	35585	2636			15108																
		STD	0125	1481	3572	2659	0014971	0232	15097																
		STD	0150	1427	3579	2676	0013413	0267	15085																
123		OBS	0152	1423	35791	2677			15084																
		STD	0200	1332	3569	2688	0012384	0332	15061																
123		OBS	0203	1328	35681	2688			15060																
		STD	0250	1294	3568	2695	0011833	0392	15056																
123		OBS	T0257	1288	35670	2695			15055																
		STD	0300	1240	3560	2700	0011509	0451	15045																
123		OBS	0305	1234	35589	2700			15044																
		STD	0400	1100	3538	2709	0010773	0562	15010																
123		OBS	0406	1092	35369	2710			15008																
		STD	0500	0961	3522	2721	0009751	0665	14975																
123		OBS	T0505	0953	35207	2721			14972																
		STD	0600	0795	3505	2734	0008521	0756	14927																
123		OBS	0605	0788	35048	2735			14925																
		STD	0700	0657	3499	2749	0007086	0834	14889																
123		OBS	T0799	0559	34961	2759			14866																
		STD	0800	0559	3496	2759	0006086	0900	14866																
		STD	0900	0516	3496	2765	0005623	0959	14865																
		STD	1000	0481	3497	2769	0005265	1013	14867																
123		OBS	1006	0479	34965	2769			14867																
		STD	1100	0453	3496	2772	0005046	1065	14872																
		STD	1200	0433	3496	2774	0004888	1114	14881																
123		OBS	T1261	0425	34957	2775			14888																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR, 1/10			CRUISE NO.	STATION NUMBER	DIE				HGT	PER
31	826	CC	44025N	041030W	149	41	12	12	125	1966	D05	012	4572	13	15	2	4	X1	2	7	0012
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
				COLOR CODE		DIR.		METER (mb)		DRY BULB		WET BULB									
				19		S11		254		167		150		7		14					
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S/C				
		STD	0000	1584	3497	2578	0022293	0000	15100												
125		OBS	0000	1584	34965	2578			15100												
		STD	0010	1587	3498	2578	0022315	0022	15102												
		STD	0020	1588	3499	2578	0022287	0045	15105												
125		OBS	0025	1589	34991	2578			15106												
		STD	0030	1589	3511	2588	0021431	0066	15108												
		STD	0050	1588	3551	2618	0018560	0106	15116												
125		OBS	0051	1588	35522	2619			15116												
		STD	0075	1583	3585	2646	0016050	0150	15123												
		STD	0100	1578	3600	2659	0014921	0188	15127												
125		OBS	0103	1577	36009	2659			15127												
		STD	0125	1467	3584	2671	0013803	0224	15094												
		STD	0150	1378	3572	2681	0012927	0258	15068												
125		OBS	0154	1367	35708	2682			15065												
		STD	0200	1326	3572	2691	0012068	0320	15059												
125		OBS	0206	1320	35716	2692			15058												
		STD	0250	1263	3564	2698	0011525	0379	15045												
125		OBS	T0258	1256	35633	2699			15044												
		STD	0300	1239	3561	2700	0011417	0437	15045												
125		OBS	0310	1232	35602	2701			15044												
		STD	0400	1096	3539	2710	0010628	0547	15009												
125		OBS	0413	1078	35368	2712			15004												
		STD	0500	0977	3522	2718	0010022	0650	14980												
125		OBS	T0516	0954	35197	2720			14974												
		STD	0600	0799	3505	2733	0008583	0743	14928												
125		OBS	0619	0768	35029	2736			14919												
		STD	0700	0656	3499	2749	0007071	0821	14888												
		STD	0800	0553	3495	2759	0006087	0887	14863												
125		OBS	T0819	0538	34949	2761			14860												
		STD	0900	0509	3496	2765	0005583	0945	14862												
		STD	1000	0478	3497	2769	0005226	1000	14866												
125		OBS	1033	0469	34968	2771			14868												
		STD	1100	0452	3496	2772	0005018	1051	14872												
		STD	1200	0431	3495	2774	0004907	1100	14880												
125		OBS	T1294	0416	34946	2775			14889												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER		
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	
31	826	CC	44045N	041035W		149	41	12	13	123	1966	005	013	4572	16	19	2	3	X1	6	5	0013	
						WATER		WIND		BARO-METER		AIR TEMP. °C											
						COLOR CODE	TRANSL. (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
									19	525	129	169	161	7	15								
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\frac{\Delta \rho}{\rho}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S. CL.						
		STD	0000	1625	3505	2574	0022602	0000	15113														
123		OBS	0000	1625	35045	2574			15113														
		STD	0010	1608	3526	2595	0020693	0022	15112														
		STD	0020	1594	3541	2609	0019325	0042	15112														
123		OBS	0027	1587	35484	2617			15111														
		STD	0030	1587	3549	2617	0018628	0061	15112														
		STD	0050	1577	3552	2622	0018248	0098	15113														
123		OBS	0052	1575	35523	2622			15112														
		STD	0075	1540	3573	2646	0015997	0140	15108														
		STD	0100	1496	3585	2665	0014263	0178	15099														
123		OBS	0105	1486	35864	2669			15097														
		STD	0125	1435	3582	2676	0013285	0213	15084														
		STD	0150	1384	3577	2683	0012683	0245	15071														
123		OBS	0157	1372	35762	2685			15068														
		STD	0200	1324	3573	2693	0011919	0307	15059														
123		OBS	0210	1316	35723	2694			15057														
		STD	0250	1301	3572	2697	0011649	0365	15059														
123		OBS	T0266	1291	35725	2699			15058														
		STD	0300	1264	3568	2701	0011385	0423	15054														
123		OBS	0313	1251	35660	2702			15052														
		STD	0400	1120	3544	2710	0010695	0533	15018														
123		OBS	0416	1096	35406	2712			15012														
		STD	0500	0980	3525	2720	0009853	0636	14982														
123		OBS	T0521	0945	35214	2723			14972														
		STD	0600	0781	3505	2736	0008307	0727	14921														
123		OBS	0626	0736	35015	2740			14908														
		STD	0700	0651	3500	2751	0006927	0803	14886														
		STD	0800	0562	3498	2761	0005986	0868	14867														
123		OBS	T0837	0536	34975	2763			14863														
		STD	0900	0512	3498	2766	0005475	0925	14863														
		STD	1000	0479	3498	2770	0005151	0978	14867														
123		OBS	1053	0463	34977	2772			14869														
		STD	1100	0451	3497	2773	0004946	1029	14872														
		STD	1200	0428	3496	2775	0004824	1077	14879														
		STD	1300	0410	3495	2776	0004761	1125	14888														
123		OBS	1328	0405	34943	2776			14890														
		STD	1400	0395	3494	2777	0004732	1173	14898														
		STD	1500	0383	3494	2778	0004685	1220	14910														
123		OBS	T1604	0376	34933	2778			14924														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	NOCC NO.	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	826	CC	43542N	041047W	149	31	12	14	171	1966	005	014	4572	17	34	4	3		X1	6	6	0014	
		WATER		WIND		BARO-METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mb)		DRY BULB	WET BULB	VIS CODE													
				34	518	240		100	072	7	15												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta \rho$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - ot/l	TOTAL-P µg - ot/l	NO <sub>2</sub> -N µg - ot/l	NO <sub>3</sub> -N µg - ot/l	SiO <sub>4</sub> -Si µg - ot/l	pH	σ <sub>t</sub> C						
		STD	0000	1567	3526	2604	0019781	0000	15098														
171		OBS	0000	1567	35259	2604			15098														
		STD	0010	1568	3526	2604	0019805	0020	15100														
		STD	0020	1568	3527	2604	0019829	0040	15102														
171		OBS	0029	1569	35267	2604			15104														
		STD	0030	1570	3528	2605	0019774	0059	15104														
		STD	0050	1579	3547	2618	0018649	0098	15112														
171		OBS	0057	1582	35527	2621			15115														
		STD	0075	1565	3572	2640	0016608	0142	15115														
		STD	0100	1528	3588	2661	0014724	0181	15110														
171		OBS	0114	1500	35928	2670			15104														
		STD	0125	1460	3589	2676	0013292	0216	15093														
		STD	0150	1384	3581	2686	0012391	0248	15071														
171		OBS	0170	1340	35759	2692			15059														
		STD	0200	1313	3571	2693	0011849	0309	15055														
171		OBS	0225	1294	35689	2696			15052														
		STD	0250	1281	3569	2698	0011515	0367	15052														
171		OBS	T0276	1262	35689	2702			15050														
		STD	0300	1239	3565	2704	0011124	0424	15045														
171		OBS	0335	1202	35590	2706			15038														
		STD	0400	1126	3549	2713	0010438	0532	15021														
171		OBS	0442	1064	35401	2717			15005														
		STD	0500	0951	3523	2723	0009511	0631	14971														
171		OBS	T0549	0861	35128	2730			14944														
		STD	0600	0769	3506	2739	0008052	0719	14917														
171		OBS	0662	0675	35008	2748			14890														
		STD	0700	0636	3500	2753	0006716	0793	14881														
		STD	0800	0551	3499	2763	0005765	0855	14863														
171		OBS	T0884	0498	34981	2768			14855														
		STD	0900	0493	3498	2769	0005191	0910	14856														
		STD	1000	0466	3498	2772	0004953	0961	14861														
		STD	1100	0443	3498	2775	0004763	1009	14868														
171		OBS	1113	0440	34981	2775			14869														
		STD	1200	0423	3497	2776	0004686	1057	14877														
		STD	1300	0406	3496	2777	0004636	1103	14886														
		STD	1400	0393	3495	2778	0004632	1150	14897														
171		OBS	T1413	0391	34949	2778			14899														
		STD	1500	0382	3495	2778	0004599	1196	14910														
171		OBS	T1701	0368	34941	2779			14938														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	826	CC	43571N	041040W	149	31	12	15	124	1966	D05	015	4572	15	35	2	3		X1	2	7	0015	
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)	DRY BULB	WET BULB	VIS. CODE										
						16	S13		246		139	106	7	15									
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	SIGC						
		STD	0000	1550	3527	2609	0019343	0000	15093														
124		OBS	0000	1550	35269	2609			15093														
		STD	0010	1552	3528	2609	0019346	0019	15095														
		STD	0020	1554	3529	2609	0019348	0039	15098														
124		OBS	0024	1555	35293	2609			15099														
		STD	0030	1568	3536	2612	0019158	0058	15105														
124		OBS	0048	1590	35531	2620			15116														
		STD	0050	1588	3555	2622	0018268	0095	15116														
		STD	0075	1551	3570	2641	0016452	0139	15111														
124		OBS	0096	1510	35771	2656			15102														
		STD	0100	1496	3577	2659	0014846	0178	15098														
		STD	0125	1420	3577	2675	0013371	0213	15078														
124		OBS	0143	1381	35763	2683			15068														
		STD	0150	1373	3576	2685	0012513	0246	15067														
124		OBS	0190	1336	35765	2693			15061														
		STD	0200	1329	3576	2694	0011799	0306	15061														
124		OBS	T0238	1305	35733	2697			15059														
		STD	0250	1300	3573	2698	0011585	0365	15059														
124		OBS	0285	1276	35704	2700			15056														
		STD	0300	1252	3566	2702	0011300	0422	15050														
124		OBS	0380	1129	35451	2709			15018														
		STD	0400	1103	3541	2711	0010607	0532	15012														
124		OBS	T0477	0989	35267	2720			14982														
		STD	0500	0944	3521	2723	0009541	0632	14968														
124		OBS	0574	0814	35077	2733			14930														
		STD	0600	0771	3506	2738	0008082	0720	14918														
		STD	0700	0633	3500	2753	0006674	0794	14879														
124		OBS	T0775	0558	34977	2761			14861														
		STD	0800	0546	3498	2762	0005795	0856	14861														
		STD	0900	0501	3498	2768	0005317	0912	14859														
124		OBS	0969	0476	34979	2771			14860														
		STD	1000	0468	3498	2771	0005016	0964	14862														
		STD	1100	0443	3496	2773	0004888	1013	14868														
		STD	1200	0422	3495	2775	0004798	1062	14876														
124		OBS	1219	0419	34951	2775			14878														
		STD	1300	0406	3495	2776	0004709	1109	14886														
		STD	1400	0393	3494	2777	0004706	1156	14897														
124		OBS	T1469	0387	34940	2777			14906														



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	826	CC	43570N	041005W		149	31	12	17	143	1966	005	016	4572	17	16	4	3	X5	5	8		0016
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB											
								08	S07	007	167	156	6	15									
MESSAGE TIME OF HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	ST CC						
		STD	0000	1552	3506	2592	0020934	0000	15091														
143		OBS	0000	1552	35057	2592			15091														
		STD	0010	1552	3506	2592	0020951	0021	15093														
		STD	0020	1553	3510	2595	0020696	0042	15095														
143		OBS	0027	1553	35146	2598			15097														
		STD	0030	1553	3519	2602	0020067	0062	15098														
		STD	0050	1550	3546	2623	0018094	0100	15103														
143		OBS	0054	1549	35503	2627			15104														
		STD	0075	1505	3564	2647	0015909	0143	15096														
		STD	0100	1456	3575	2666	0014156	0180	15086														
143		OBS	0106	1444	35762	2670			15083														
		STD	0125	1404	3575	2678	0013162	0215	15073														
		STD	0150	1361	3573	2685	0012513	0247	15063														
143		OBS	0159	1348	35724	2687			15060														
		STD	0200	1306	3571	2695	0011741	0307	15052														
143		OBS	0211	1299	35701	2696			15052														
		STD	0250	1296	3572	2698	0011580	0366	15057														
143		OBS	T0265	1290	35727	2699			15058														
		STD	0300	1261	3568	2702	0011327	0423	15053														
143		OBS	0321	1239	35648	2703			15049														
		STD	0400	1108	3543	2711	0010551	0532	15014														
143		OBS	0432	1055	35350	2715			14999														
		STD	0500	0945	3522	2724	0009484	0632	14969														
143		OBS	T0547	0867	35141	2730			14946														
		STD	0600	0765	3506	2739	0007991	0720	14915														
143		OBS	0662	0667	34991	2748			14886														
		STD	0700	0630	3499	2753	0006714	0793	14878														
		STD	0800	0548	3499	2763	0005762	0856	14862														
143		OBS	T0889	0493	34981	2769			14854														
		STD	0900	0490	3498	2769	0005152	0910	14854														
		STD	1000	0463	3498	2772	0004952	0961	14860														
		STD	1100	0439	3497	2774	0004785	1009	14867														
143		OBS	1129	0433	34970	2775			14869														
		STD	1200	0419	3496	2776	0004709	1057	14875														
		STD	1300	0403	3495	2776	0004671	1104	14885														
		STD	1400	0390	3495	2778	0004594	1150	14896														
143		OBS	T1436	0386	34945	2778			14901														
		STD	1500	0381	3495	2778	0004601	1196	14909														
143		OBS	T1724	0373	34946	2779			14944														

TABLE V. Observed and interpolated oceanographic data for stations taken by USCGC DUANE at Ocean Station DELTA, 10-31 January 1967, prepared from NODC listing No. 31-850 DU.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO D Y	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'WAL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	OAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT PER		SEA	TYPE	
31	850	DU	44051N	040552W	1967	149	40	01	10	178	006	001	4755	11	10	3	3	X1	6	3	0001
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB									
		10		S22		240		167		150		8		13							
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C				
		STD	0000	1478	3544	2637	0016608	0000	15072												
178		OBS	0000	1478	35436	2637			15072												
		STD	0010	1479	3544	2638	0016619	0017	15074												
		STD	0020	1479	3544	2638	0016652	0033	15076												
178		OBS	0020	1479	35441	2638			15076												
		STD	0030	1478	3544	2638	0016685	0050	15077												
178		OBS	0043	1477	35433	2637			15079												
		STD	0050	1492	3550	2639	0016582	0083	15086												
		STD	0075	1525	3569	2647	0015968	0124	15103												
178		OBS	0093	1530	35786	2653			15108												
		STD	0100	1506	3577	2657	0015058	0163	15102												
		STD	0125	1429	3573	2671	0013819	0199	15081												
		STD	0150	1369	3569	2680	0012966	0232	15065												
178		OBS	0184	1313	35668	2690			15052												
		STD	0200	1303	3567	2692	0011946	0295	15051												
178		OBS	T0236	1287	35672	2696			15051												
		STD	0250	1285	3569	2698	0011577	0353	15053												
178		OBS	0283	1279	35709	2700			15057												
		STD	0300	1271	3569	2700	0011448	0411	15057												
178		OBS	0375	1162	35513	2708			15030												
		STD	0400	1085	3540	2713	0010358	0520	15005												
178		OBS	0428	1012	35298	2718			14982												
		STD	0500	0920	3518	2725	0009364	0619	14959												
178		OBS	0560	0839	35101	2731			14937												
		STD	0600	0766	3506	2739	0008006	0705	14916												
		STD	0700	0623	3499	2754	0006609	0778	14875												
178		OBS	T0726	0595	34977	2756			14868												
		STD	0800	0556	3499	2762	0005861	0841	14865												
		STD	0900	0511	3500	2768	0005300	0897	14863												
178		OBS	0915	0505	35000	2769			14863												
		STD	1000	0476	3500	2772	0004942	0948	14866												
		STD	1100	0451	3499	2774	0004799	0997	14872												
178		OBS	T1149	0442	34976	2774			14876												

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT			
31	850	DU	4400 N	04050 W		149	40	01	11	125	1967	006	002	4755	08	13	2	4	X2	6	7	0002				
		WATER		WIND		BARO-METER		AIR TEMP. °C				SPECIAL OBSERVATIONS														
		COLOR CODE		TRANS. INI		DIR. OF FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS												
				12		S15		270		167		144		9		12										
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>2</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S. CLO.									
		STD	0000	1575	3563	2631	0017260	0000	15105																	
125		OBS	0000	1575	35628	2631			15105																	
		STD	0010	1577	3563	2630	0017343	0017	15107																	
		STD	0020	1579	3563	2629	0017421	0035	15109																	
125		OBS	0023	1579	35624	2629			15110																	
		STD	0030	1578	3562	2629	0017471	0052	15111																	
125		OBS	0045	1575	35610	2629			15112																	
		STD	0050	1562	3560	2631	0017340	0087	15109																	
		STD	0075	1508	3555	2639	0016643	0129	15095																	
125		OBS	0086	1488	35525	2642			15091																	
		STD	0100	1479	3564	2653	0015438	0170	15091																	
		STD	0125	1448	3577	2670	0013918	0206	15087																	
125		OBS	0133	1434	35791	2674			15084																	
		STD	0150	1387	3576	2682	0012817	0240	15072																	
125		OBS	T0172	1340	35721	2689			15059																	
		STD	0200	1326	3572	2691	0012068	0302	15059																	
		STD	0250	1297	3570	2696	0011724	0361	15057																	
125		OBS	0253	1295	35702	2696			15057																	
		STD	0300	1274	3567	2698	0011652	0420	15058																	
125		OBS	0333	1235	35618	2702			15049																	
		STD	0400	1084	3539	2713	0010413	0530	15005																	
125		OBS	0414	1057	35355	2715			14997																	
125		OBS	0490	0937	35198	2723			14964																	
		STD	0500	0914	3518	2726	0009266	0628	14957																	
		STD	0600	0724	3503	2743	0007602	0713	14899																	
125		OBS	T0640	0665	34989	2748			14882																	
		STD	0700	0596	3498	2757	0006283	0782	14864																	
		STD	0800	0532	3498	2764	0005625	0842	14855																	
125		OBS	0800	0532	34975	2764			14855																	

TABLE V.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METERS	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
							MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	850	DU	44030N	041051W	149	41	01	12	097	1967	006	003	4755	16	12	2	3		X2	6	6	0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. INT.	DIR.	SPEED OR FORCE	MMHG	DRY BULB	WET BULB	VIS. CODE									
									14	521	173	167	144	8	14							
MESSNGR TIME HR /10	CASST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \rho$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	SC CC					
		STD	0000	1467	3539	2636	0016731	0000	15068													
	097	OBS	0000	1467	35388	2636			15068													
		STD	0010	1469	3539	2636	0016777	0017	15070													
		STD	0020	1470	3539	2636	0016840	0034	15072													
	097	OBS	0026	1471	35394	2636			15074													
		STD	0030	1471	3540	2636	0016845	0050	15074													
		STD	0050	1469	3540	2636	0016852	0084	15077													
	097	OBS	0052	1469	35398	2636			15077													
		STD	0075	1501	3569	2652	0015462	0124	15095													
		STD	0100	1536	3588	2659	0014895	0162	15112													
	097	OBS	0105	1543	35905	2659			15116													
		STD	0125	1484	3586	2669	0014013	0199	15100													
		STD	0150	1421	3581	2679	0013144	0233	15083													
	097	OBS	0160	1400	35789	2681			15078													
		STD	0200	1337	3572	2689	0012249	0296	15063													
	097	OBS	T0212	1321	35705	2691			15059													
		STD	0250	1311	3569	2692	0012086	0357	15062													
		STD	0300	1275	3567	2698	0011657	0416	15058													
	097	OBS	0318	1255	35665	2702			15054													
		STD	0400	1111	3542	2710	0010678	0528	15015													
	097	OBS	0423	1072	35365	2713			15004													
		STD	0500	0951	3522	2723	0009584	0629	14971													
	097	OBS	0531	0898	35162	2727			14956													
		STD	0600	0759	3505	2739	0007974	0717	14913													
	097	OBS	0637	0698	35004	2745			14895													
		STD	0700	0636	3500	2753	0006716	0790	14881													
		STD	0800	0556	3500	2763	0005758	0853	14865													
	097	OBS	T0847	0526	34994	2766			14861													
		STD	0900	0507	3499	2768	0005306	0908	14862													
		STD	1000	0475	3498	2771	0005077	0960	14865													
	097	OBS	1075	0455	34971	2773			14869													
		STD	1100	0450	3497	2773	0004933	1010	14871													
		STD	1200	0430	3496	2774	0004850	1059	14879													
		STD	1300	0414	3495	2775	0004813	1107	14889													
	097	OBS	T1362	0405	34943	2776			14896													
		STD	1400	0400	3494	2776	0004797	1155	14900													
		STD	1500	0389	3493	2776	0004815	1203	14912													
	097	OBS	T1645	0378	34930	2777			14932													

TABLE V.—Continued

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	WIND DIRECTION	MANSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER				DIR.	HGT	PER		SEA	TYPE	
31	850	DU	43580N	040370W	149	30	01	13	180	1967	006	004		4755	11	35	4	3	X1	6	7	0004	
						WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY RULB	WET BULB	VIS. CODE										
									30	530	064	100	083	7	13								
MESSNGR TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
		STD	0000	1450	3541	2642	0016198	0000	15063														
180		OBS	0000	1450	35413	2642			15063														
		STD	0010	1453	3541	2641	0016289	0016	15066														
		STD	0020	1455	3541	2641	0016353	0033	15068														
180		OBS	0024	1456	35414	2640			15069														
		STD	0030	1456	3541	2640	0016403	0049	15070														
180		OBS	0046	1456	35413	2640			15073														
		STD	0050	1456	3541	2640	0016463	0082	15073														
		STD	0075	1454	3541	2641	0016496	0123	15077														
180		OBS	0091	1453	35414	2641			15079														
		STD	0100	1445	3552	2651	0015608	0163	15079														
		STD	0125	1414	3571	2672	0013658	0200	15076														
180		OBS	0137	1395	35753	2680			15072														
		STD	0150	1364	3571	2683	0012720	0233	15063														
180		OBS	T0183	1298	35608	2689			15046														
		STD	0200	1280	3560	2692	0012011	0295	15042														
		STD	0250	1228	3556	2699	0011443	0353	15032														
180		OBS	0282	1195	35526	2703			15026														
		STD	0300	1177	3550	2704	0011055	0409	15022														
180		OBS	0385	1095	35400	2711			15006														
		STD	0400	1083	3538	2712	0010469	0517	15004														
180		OBS	0495	0989	35270	2720			14985														
		STD	0500	0983	3526	2720	0009830	0619	14983														
		STD	0600	0846	3511	2731	0008877	0712	14947														
180		OBS	0607	0836	35097	2731			14944														
		STD	0700	0678	3502	2749	0007165	0792	14897														
180		OBS	0725	0645	35002	2752			14888														
		STD	0800	0591	3500	2759	0006203	0859	14879														
		STD	0900	0533	3501	2766	0005517	0918	14872														
180		OBS	0905	0531	35008	2767			14872														
		STD	1000	0491	3501	2771	0005094	0971	14872														
		STD	1100	0464	3501	2774	0004858	1021	14877														
180		OBS	T1132	0458	35004	2775			14880														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES TYPE AMT	NOCC STATION NUMBER			
CITY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA						
31	850	DU	43562N	040542W	149	30	01	14	127	1967	D06	005	4755	14	30	4	4	4	X2	6	6	0005			
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. IMI		DIR. SPEED OF FORCE		DRY BULB		WET BULB		VIS. CODE													
						30		S17		159		117		083		8		14							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PQ <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C								
		STD	0000	1456	3540	2640	0016387	0000	15065																
	127	OBS	0000	1456	35404	2640			15065																
		STD	0010	1456	3541	2640	0016418	0016	15067																
		STD	0020	1457	3541	2640	0016448	0033	15068																
	127	OBS	0025	1457	35406	2640			15069																
		STD	0030	1457	3541	2640	0016482	0049	15070																
	127	OBS	0049	1457	35407	2640			15073																
		STD	0050	1457	3542	2641	0016445	0082	15074																
		STD	0075	1464	3561	2654	0015272	0122	15082																
		STD	0100	1471	3573	2661	0014650	0159	15090																
	127	OBS	0100	1471	35725	2661			15090																
		STD	0125	1411	3572	2674	0013523	0194	15075																
		STD	0150	1361	3571	2684	0012660	0227	15062																
	127	OBS	0150	1361	35710	2684			15062																
		STD	0200	1287	3564	2693	0011854	0289	15045																
	127	OBS	T0201	1286	35637	2693			15045																
		STD	0250	1256	3561	2697	0011610	0347	15042																
	127	OBS	0293	1212	35558	2702			15034																
		STD	0300	1200	3554	2703	0011191	0404	15031																
	127	OBS	0385	1065	35356	2713			14995																
		STD	0400	1048	3533	2714	0010218	0511	14991																
	127	OBS	0483	0932	35191	2723			14961																
		STD	0500	0899	3516	2726	0009168	0608	14951																
	127	OBS	0575	0767	35037	2737			14912																
		STD	0600	0730	3502	2741	0007764	0693	14901																
		STD	0700	0607	3498	2755	0006462	0764	14869																
	127	OBS	T0758	0554	34962	2760			14857																
		STD	0800	0534	3497	2763	0005688	0825	14856																
		STD	0900	0492	3497	2768	0005259	0879	14855																
	127	OBS	0948	0476	34971	2770			14857																
		STD	1000	0465	3497	2771	0005021	0931	14861																
		STD	1100	0445	3496	2773	0004943	0981	14869																
	127	OBS	T1181	0431	34956	2774			14877																
		STD	1200	0428	3496	2774	0004853	1030	14879																
		STD	1300	0412	3495	2776	0004765	1078	14889																
		STD	1400	0399	3495	2777	0004703	1125	14900																
	127	OBS	T1443	0394	34950	2777			14905																

TABLE V.—Continued

REFERENCE		SNIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					16°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	850	DU	4341 N	04042 W	149	30	01	15	174	1967	006	006	4755	40	30	4	3		X1	6	3	0006	
		WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE														
					31	S15	240	128	106	8	20												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-N $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	SILICATE						
		STD	0000	1478	3547	2640	0016374	0000	15073														
174		OBS	0000	1478	35468	2640			15073														
		STD	0010	1479	3547	2640	0016408	0016	15075														
		STD	0020	1480	3547	2640	0016454	0033	15077														
174		OBS	0023	1480	35472	2640			15077														
		STD	0030	1478	3547	2640	0016449	0049	15078														
174		OBS	0045	1474	35464	2640			15079														
		STD	0050	1472	3546	2641	0016457	0082	15079														
		STD	0075	1465	3544	2641	0016517	0123	15080														
174		OBS	0093	1462	35429	2640			15082														
		STD	0100	1462	3551	2647	0016024	0164	15084														
		STD	0125	1460	3573	2664	0014457	0202	15091														
174		OBS	0139	1459	35783	2668			15093														
		STD	0150	1422	3575	2674	0013602	0237	15083														
174		OBS	T0185	1334	35662	2685			15059														
		STD	0200	1329	3567	2687	0012478	0302	15059														
		STD	0250	1307	3568	2693	0012066	0364	15061														
174		OBS	0270	1296	35689	2695			15060														
		STD	0300	1286	3567	2696	0011886	0424	15062														
174		OBS	0350	1244	35638	2702			15055														
		STD	0400	1160	3551	2708	0010916	0538	15033														
174		OBS	0432	1105	35426	2712			15018														
		STD	0500	0983	3526	2720	0009816	0641	14983														
174		OBS	0500	0983	35262	2720			14983														
		STD	0600	0776	3507	2738	0008084	0731	14920														
174		OBS	0645	0699	35013	2745			14896														
		STD	0700	0616	3499	2755	0006512	0804	14872														
174		OBS	0770	0534	34963	2763			14851														
		STD	0800	0524	3496	2764	0005601	0864	14852														
		STD	0900	0494	3497	2768	0005322	0919	14856														
		STD	1000	0467	3497	2771	0005069	0971	14861														
174		OBS	T1043	0457	34968	2772			14865														
		STD	1100	0448	3497	2773	0004937	1021	14870														
		STD	1200	0433	3496	2774	0004859	1070	14881														
		STD	1300	0420	3496	2776	0004810	1118	14892														
		STD	T400	0408	3496	2777	0004769	1166	14904														
		STD	1500	0397	3496	2778	0004737	1214	14916														
218		OBS	1645	0384	34951	2779			14935														
		STD	1750	0378	3495	2779	0004766	1333	14950														
		STD	2000	0365	3493	2779	0004886	1453	14987														
218		OBS	T2064	0361	34930	2779			14996														
		STD	2500	0337	3495	2783	0004741	1694	15061														
218		OBS	2533	0335	34954	2784			15066														
		STD	3000	0301	3494	2785	0004643	1928	15131														
218		OBS	T3014	0300	34934	2785			15133														
218		OBS	T3494	0270	34922	2787			15204														
218		OBS	3892	0246	34914	2789			15264														
218		OBS	T3985	0240	34909	2789			15277														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER						
CITY CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER	SEA	TYPE	AMT	
31	850	00	43505N	041083W	149	31	01	23	139	1967	006	007	4755	07	24	4	3	X1	6	6	0007				
		WATER		WIND		BARO- METER		AIR TEMP. °C				SPECIAL OBSERVATIONS													
		COLOR		TRANS.		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTH									
		30		30		S30		125		111		111		7		12									

MESSNGR TIME HR	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\frac{\Delta \sigma}{\sigma}$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C
		STD	0000	1550	3593	2659	0014555	0000	15101								
139		OBS	0000	1550	35925	2659			15101								
		STD	0010	1555	3593	2658	0014686	0015	15104								
		STD	0020	1558	3593	2657	0014768	0029	15107								
139		OBS	0023	1559	35928	2657			15108								
		STD	0030	1559	3593	2657	0014828	0044	15109								
139		OBS	0045	1558	35924	2657			15111								
		STD	0050	1558	3592	2657	0014887	0074	15112								
		STD	0075	1557	3592	2657	0014940	0111	15115								
139		OBS	0089	1556	35924	2658			15117								
		STD	0100	1560	3594	2658	0014975	0149	15121								
139		OBS	0113	1564	35963	2659			15124								
		STD	0125	1568	3602	2662	0014641	0186	15128								
		STD	0150	1576	3609	2666	0014382	0222	15136								
139		OBS	T0176	1584	36118	2666			15143								
		STD	0200	1528	3601	2671	0014086	0293	15128								
		STD	0250	1435	3585	2679	0013434	0362	15105								
139		OBS	0260	1420	35832	2680			15101								
		STD	0300	1391	3582	2686	0012891	0428	15098								
139		OBS	0339	1349	35767	2690			15090								
		STD	0400	1259	3562	2697	0011991	0552	15068								
139		OBS	T0409	1239	35590	2699			15063								
139		OBS	0464	1084	35357	2710			15015								
		STD	0500	1016	3527	2715	0010324	0664	14995								
155		OBS	T0599	0846	35100	2730			14947								
		STD	0600	0844	3510	2730	0008919	0760	14946								
		STD	0700	0700	3502	2746	0007484	0842	14906								
155		OBS	0743	0646	35015	2753			14892								



TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
31	850	DU	43533N	040450W	149	30	01	25	131	1967	006	008	4755	07	31	3	3		X8	6	7	0008		
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB	VIS. CODE														
				30	S10	037		111	078	8			11											
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \theta$ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S.C.C.							
		STD	0000	1400	3560	2667	0013830	0000	15049															
131		OBS	0000	1400	35598	2667			15049															
		STD	0010	1401	3560	2666	0013884	0014	15051															
		STD	0020	1402	3560	2666	0013936	0028	15053															
131		OBS	0023	1402	35596	2666			15054															
		STD	0030	1402	3560	2666	0013964	0042	15055															
131		OBS	0047	1402	35600	2666			15058															
		STD	0050	1402	3560	2666	0014000	0070	15058															
		STD	0075	1402	3560	2666	0014073	0105	15062															
131		OBS	0092	1402	35599	2666			15065															
		STD	0100	1402	3560	2666	0014151	0140	15066															
		STD	0125	1403	3560	2666	0014231	0176	15071															
131		OBS	0140	1404	35604	2666			15073															
		STD	0150	1391	3564	2672	0013774	0211	15071															
131		OBS	T0188	1350	35727	2687			15065															
		STD	0200	1345	3572	2688	0012379	0276	15065															
		STD	0250	1317	3571	2693	0012058	0337	15064															
131		OBS	0282	1294	35702	2697			15062															
		STD	0300	1282	3568	2697	0011735	0396	15060															
131		OBS	0375	1203	35566	2704			15044															
		STD	0400	1160	3550	2707	0010989	0510	15033															
131		OBS	0468	1042	35329	2715			15000															
		STD	0500	0982	3525	2720	0009887	0614	14983															
131		OBS	0562	0873	35131	2728			14951															
		STD	0600	0810	3507	2733	0008606	0707	14933															
		STD	0700	0658	3498	2748	0007173	0786	14889															
131		OBS	T0748	0592	34972	2756			14871															

TABLE V.—Continued

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT						
31	850	DU	43577N	040512W	149	30	01	27	109	1967	006	009	4755	16	33	4	3		X1	6	6	0009					
		WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS																	
		COLOR CODE		TRANS M		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		HO. OBS. DEPTH											
		28		S12		037		117		083		8		14													

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t^{20}$	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	1384	3560	2670	0013517	0000	15044								
109		OBS	0000	1384	35597	2670			15044								
		STD	0010	1384	3560	2670	0013561	0014	15046								
		STD	0020	1385	3560	2670	0013605	0027	15047								
109		OBS	0025	1385	35594	2670			15048								
		STD	0030	1385	3559	2669	0013674	0041	15049								
		STD	0050	1383	3557	2668	0013823	0068	15052								
109		OBS	0050	1383	35572	2668			15052								
		STD	0075	1380	3558	2669	0013776	0103	15055								
109		OBS	0099	1379	35582	2670			15058								
		STD	0100	1379	3558	2670	0013815	0137	15059								
		STD	0125	1381	3558	2669	0013919	0172	15063								
109		OBS	0149	1383	35584	2669			15068								
		STD	0150	1382	3559	2670	0013958	0207	15068								
109		OBS	T0199	1336	35723	2690			15062								
		STD	0200	1336	3572	2690	0012208	0272	15062								
		STD	0250	1319	3572	2693	0012054	0333	15065								
109		OBS	0296	1284	35711	2699			15061								
		STD	0300	1279	3570	2700	0011530	0392	15060								
109		OBS	0390	1156	35512	2709			15030								
		STD	0400	1140	3549	2710	0010694	0503	15026								
109		OBS	T0487	0993	35289	2721			14985								
		STD	0500	0965	3525	2723	0009599	0604	14976								
109		OBS	0589	0798	35072	2735			14926								
		STD	0600	0781	3507	2738	0008160	0693	14922								
		STD	0700	0647	3502	2753	0006723	0768	14885								
109		OBS	T0792	0559	34995	2762			14865								
		STD	0800	0556	3500	2763	0005795	0830	14865								
		STD	0900	0518	3500	2767	0005399	0886	14866								
		STD	1000	0485	3500	2771	0005067	0938	14869								
109		OBS	1010	0482	34999	2772			14870								
		STD	1100	0455	3498	2773	0004925	0988	14873								
		STD	1200	0430	3497	2775	0004776	1037	14880								
109		OBS	T1284	0413	34958	2776			14886								
		STD	1300	0410	3496	2776	0004702	1084	14888								
		STD	1400	0395	3496	2778	0004622	1131	14898								
		STD	1500	0385	3495	2778	0004609	1177	14911								
109		OBS	1575	0380	34949	2779			14921								

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT INDIC	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
31	850	DU	43494N	040458W		149	30	01	29	131	1967	D06	010	4755	12	31	3	3		X1	8	6		0010
							WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB	VIS. CODE										
									31	S20	130	122	100	8	14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ OYN. $\mu$ $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu$ g - $\mu$ l/l	TOTAL-P $\mu$ g - $\mu$ l/l	NO <sub>2</sub> -N $\mu$ g - $\mu$ l/l	NO <sub>3</sub> -N $\mu$ g - $\mu$ l/l	SiO <sub>4</sub> -Si $\mu$ g - $\mu$ l/l	pH	S C C							
		STD	0000	1541	3598	2665	0013946	0000	15099															
131		OBS	0000	1541	35982	2665			15099															
		STD	0010	1543	3599	2665	0013992	0014	15101															
		STD	0020	1545	3599	2665	0014047	0028	15103															
131		OBS	0023	1545	35988	2665			15104															
		STD	0030	1545	3599	2665	0014068	0042	15105															
131		OBS	0043	1545	36003	2666			15107															
		STD	0050	1544	3600	2666	0014036	0070	15108															
		STD	0075	1536	3600	2668	0013943	0105	15110															
131		OBS	0088	1530	35985	2668			15110															
		STD	0100	1520	3596	2669	0013948	0140	15108															
		STD	0125	1502	3592	2669	0013985	0175	15106															
131		OBS	0128	1500	35910	2669			15106															
		STD	0150	1488	3589	2670	0013954	0210	15106															
131		OBS	T0169	1476	35876	2672			15105															
		STD	0200	1453	3587	2676	0013508	0278	15102															
131		OBS	0230	1422	35865	2683			15097															
		STD	0250	1395	3584	2686	0012683	0344	15092															
		STD	0300	1314	3572	2694	0012042	0406	15072															
131		OBS	0300	1314	35724	2694			15072															
131		OBS	T0364	1184	35493	2702			15035															
		STD	0400	1128	3543	2708	0010913	0521	15021															
131		OBS	0438	1069	35359	2713			15005															
		STD	0500	0968	3523	2721	0009796	0624	14977															
131		OBS	T0599	0824	35089	2733			14938															
		STD	0600	0823	3509	2733	0008669	0716	14938															
		STD	0700	0697	3503	2747	0007367	0797	14905															
131		OBS	0755	0637	34997	2752			14890															
		STD	0800	0592	3499	2758	0006320	0865	14879															
		STD	0900	0512	3498	2767	0005446	0924	14863															
131		OBS	T0916	0502	34974	2767			14862															
		STD	1000	0482	3497	2769	0005238	0977	14868															
		STD	1100	0459	3497	2772	0005063	1029	14875															
131		OBS	T1172	0442	34965	2773			14880															

TABLE V.—Continued

REFERENCE CITY CODE	SHIP NO. CODE	LATITUDE ° 10'	LONGITUDE ° 10'	DEPTH IN METERS	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10°	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	850	00	43532N	041081W	149	31	01	31	137	1967	006	011	4755	11	20	4	4	X1	4	6	0011

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB				
				20	515	122	183	167	7	14

MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ OVR. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SI O <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	1400	3566	2671	0013390	0000	15050								
137		OBS	0000	1400	3565.8	2671	0013390	0000	15050								
		STD	0010	1401	3565	2671	0013481	0013	15052								
		STD	0020	1402	3565	2670	0013570	0027	15054								
137		OBS	0023	1402	3564.4	2670			15054								
		STD	0030	1402	3565	2670	0013592	0041	15055								
137		OBS	0045	1401	3565.3	2671			15058								
		STD	0050	1405	3567	2671	0013549	0068	15060								
		STD	0075	1424	3574	2673	0013496	0101	15071								
137		OBS	0088	1432	3577.0	2673			15076								
		STD	0100	1437	3578	2673	0013544	0135	15080								
		STD	0125	1445	3580	2673	0013637	0169	15087								
137		OBS	0140	1448	3581.2	2673			15090								
		STD	0150	1449	3581	2673	0013698	0203	15092								
137		OBS	T0170	1452	3581.8	2672			15097								
		STD	0200	1392	3577	2682	0012989	0270	15081								
		STD	0250	1316	3570	2692	0012119	0333	15064								
137		OBS	0260	1304	3569.4	2694			15061								
		STD	0300	1280	3569	2699	0011623	0392	15060								
137		OBS	0325	1255	3565.4	2701			15055								
		STD	0400	1123	3543	2709	0010822	0505	15019								
137		OBS	T0407	1113	3541.4	2709			15016								
137		OBS	0478	1028	3530.4	2716			14996								
		STD	0500	0977	3525	2721	0009802	0608	14981								
		STD	0600	0788	3506	2736	0008341	0698	14924								
137		OBS	T0613	0769	3504.4	2737			14919								
		STD	0700	0692	3504	2748	0007206	0776	14903								
137		OBS	0772	0634	3504.0	2756			14892								
		STD	0800	0610	3504	2759	0006200	0843	14887								
		STD	0900	0540	3503	2767	0005449	0901	14876								
137		OBS	T0952	0513	3502.4	2770			14873								
		STD	1000	0494	3502	2772	0005030	0954	14873								
		STD	1100	0471	3501	2774	0004913	1003	14880								
137		OBS	T1115	0470	3500.7	2774			14882								

TABLE VI. Observed and interpolated oceanographic data for stations taken by USCGC CASCO at Ocean Station DELTA, 20 March-11 April 1967, prepared from NODC listing No. 31-888 CS.

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE ° '/10	LONGITUDE ° '/10	ORIG. INDEX	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER
					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA			
31	888	CS	4405 N	04105 W	149	41	03	20	148	1967	007	001	4755	13	31	4	2	X5	6	6	0001
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
							32	S20	025	089	078	4	14								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S CL				
		STD	0000	1408	3588	2686	0011963	0000	15055												
148		OBS	0000	1408	35875	2686			15055												
		STD	0010	1408	3588	2686	0012001	0012	15057												
		STD	0020	1409	3588	2686	0012040	0024	15059												
148		OBS	0023	1409	35875	2686			15059												
		STD	0030	1399	3587	2688	0011906	0036	15057												
148		OBS	0048	1376	35846	2691			15052												
		STD	0050	1374	3584	2691	0011682	0060	15052												
		STD	0075	1355	3583	2694	0011449	0088	15050												
148		OBS	0095	1345	35828	2696			15050												
		STD	0100	1345	3583	2696	0011316	0117	15050												
		STD	0125	1343	3583	2697	0011355	0145	15054												
148		OBS	0141	1342	35837	2697			15056												
		STD	0150	1343	3584	2697	0011351	0174	15058												
148		OBS	0187	1346	35842	2697			15065												
		STD	0200	1347	3584	2697	0011542	0231	15067												
		STD	0250	1349	3585	2697	0011681	0289	15076												
148		OBS	0279	1350	35852	2697			15082												
		STD	0300	1341	3585	2699	0011650	0347	15082												
148		OBS	0370	1309	35752	2697			15082												
		STD	0400	1229	3561	2702	0011485	0463	15058												
148		OBS	T0460	1079	35382	2713			15013												
		STD	0500	0988	3529	2722	0009696	0569	14985												
148		OBS	0549	0885	35187	2731			14954												
		STD	0600	0785	3511	2740	0007927	0657	14924												
		STD	0700	0629	3501	2754	0006545	0729	14878												
148		OBS	T0721	0603	34995	2757			14871												
		STD	0800	0536	3498	2764	0005640	0790	14857												
148		OBS	0893	0479	34963	2769			14849												
		STD	0900	0478	3496	2769	0005120	0844	14849												
		STD	1000	0459	3497	2772	0004929	0894	14858												
		STD	1100	0440	3498	2775	0004727	0943	14867												
148		OBS	1101	0440	34981	2775			14867												
		STD	1200	0418	3497	2776	0004622	0989	14875												
		STD	1300	0394	3495	2777	0004556	1035	14881												
148		OBS	T1302	0393	34945	2777			14881												

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
31	888	CS	4350 N	04115 W		149	31	03	21	141	1967	007	002	4663	14	04	3	2		X5	6	6	0002	
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB WET BULB																
				04		518		288		094		083		6		14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\frac{\Delta \rho}{\rho}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S/C							
		STD	0000	1397	3587	2688	0011778	0000	15052															
141		OBS	0000	1397	35870	2688			15052															
		STD	0010	1397	3587	2688	0011808	0012	15053															
		STD	0020	1398	3587	2688	0011831	0024	15055															
141		OBS	0024	1398	35873	2688			15056															
		STD	0030	1398	3587	2688	0011864	0035	15057															
141		OBS	0045	1398	35872	2688			15059															
		STD	0050	1390	3587	2690	0011783	0059	15058															
		STD	0075	1359	3585	2695	0011382	0088	15051															
141		OBS	0090	1348	35848	2697			15050															
		STD	0100	1349	3585	2697	0011248	0116	15052															
		STD	0125	1351	3586	2697	0011315	0145	15057															
141		OBS	0136	1352	35860	2697			15059															
		STD	0150	1354	3587	2697	0011350	0173	15062															
141		OBS	T0181	1357	35878	2697			15068															
		STD	0200	1359	3588	2697	0011520	0230	15072															
		STD	0250	1361	3589	2697	0011629	0288	15081															
141		OBS	0275	1362	35896	2698			15086															
		STD	0300	1362	3590	2698	0011747	0346	15090															
141		OBS	0365	1361	35895	2698			15100															
		STD	0400	1360	3589	2698	0012035	0465	15105															
141		OBS	T0449	1358	35881	2697			15113															
		STD	0500	1212	3560	2705	0011489	0583	15068															
141		OBS	0550	1080	35373	2712			15028															
		STD	0600	0963	3525	2723	0009775	0689	14992															
		STD	0700	0752	3507	2742	0007891	0778	14927															
141		OBS	0741	0674	35025	2750			14903															
		STD	0800	0566	3500	2762	0005892	0846	14869															
141		OBS	0844	0501	34991	2769			14850															
		STD	0900	0489	3499	2770	0005073	0901	14854															
		STD	1000	0469	3499	2772	0004926	0951	14863															
		STD	1100	0449	3498	2774	0004847	1000	14871															
141		OBS	T1187	0433	34974	2775			14879															
		STD	1200	0431	3497	2775	0004789	1048	14880															
		STD	1300	0413	3496	2776	0004726	1096	14889															
		STD	1400	0397	3495	2777	0004684	1143	14899															
141		OBS	1449	0389	34939	2777			14904															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INDIC	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	888	CS	4352 N	04013 W		149	30	03	22	176	1967	007	003	4709	16	18	5	2	X5	6	8	0003

WATER		WIND		BARO-METER (mbal)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB				
				17	520	100	156	156	6	13

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SIO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.
		STD	0000	1458	3593	2680	0012553	0000	15072								
176		OBS	0000	1458	35934	2680			15072								
		STD	0010	1459	3594	2680	0012556	0013	15074								
		STD	0020	1460	3594	2680	0012604	0025	15076								
176		OBS	0024	1460	35943	2680			15077								
		STD	0030	1460	3594	2680	0012612	0038	15078								
176		OBS	0048	1459	35946	2681			15080								
		STD	0050	1459	3595	2681	0012635	0063	15081								
		STD	0075	1458	3595	2681	0012667	0095	15084								
176		OBS	0096	1457	35952	2682			15088								
		STD	0100	1454	3595	2682	0012654	0126	15087								
		STD	0125	1428	3591	2685	0012484	0158	15083								
176		OBS	0145	1403	35871	2687			15077								
		STD	0150	1392	3585	2688	0012260	0189	15074								
176		OBS	T0193	1324	35724	2692			15057								
		STD	0200	1324	3573	2693	0011936	0249	15059								
		STD	0250	1325	3575	2694	0011904	0309	15067								
176		OBS	0294	1326	35777	2696			15075								
		STD	0300	1323	3577	2696	0011884	0368	15075								
176		OBS	0397	1235	35611	2701			15059								
		STD	0400	1230	3560	2701	0011578	0485	15058								
		STD	0500	1052	3534	2715	0010441	0596	15009								
176		OBS	T0502	1049	35338	2715			15008								
		STD	0600	0847	3517	2736	0008453	0690	14948								
		STD	0700	0684	3505	2750	0007031	0767	14900								
		STD	0800	0563	3497	2760	0006073	0833	14867								
176		OBS	T0820	0544	34956	2761			14863								
		STD	0900	0502	3496	2766	0005499	0891	14859								
		STD	1000	0460	3495	2771	0005083	0944	14858								
176		OBS	1037	0447	34952	2772			14859								
		STD	1100	0434	3495	2773	0004876	0994	14864								
		STD	1200	0416	3495	2775	0004766	1042	14873								
		STD	1300	0402	3495	2776	0004695	1089	14884								
176		OBS	1314	0400	34944	2776			14886								
		STD	1400	0390	3494	2777	0004667	1136	14896								
		STD	1500	0382	3494	2778	0004650	1182	14910								
176		OBS	T1599	0377	34930	2778			14924								

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CRUISE NO.	STATION NUMBER					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT			
31	888	CS	4350 N	04100 W	149	31	03	23	219	1967	DU 7	004	4709	14	27	3	2		6	6	0004					
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mbal)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
		27		519		196		117		089		8		14												
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SI O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C									
		STD	0000	1392	3584	2687	0011868	0000	15050																	
	219	OBS	0000	1392	35844	2687			15050																	
		STD	0010	1392	3584	2687	0011905	0012	15051																	
		STD	0020	1393	3584	2687	0011944	0024	15053																	
	219	OBS	0023	1393	35844	2687			15054																	
		STD	0030	1393	3584	2687	0011970	0036	15055																	
	219	OBS	0049	1392	35842	2687			15058																	
		STD	0050	1391	3584	2687	0012023	0060	15057																	
		STD	0075	1361	3580	2690	0011788	0090	15051																	
	219	OBS	0098	1341	35766	2692			15048																	
		STD	0100	1340	3576	2692	0011736	0119	15048																	
		STD	0125	1328	3574	2693	0011716	0148	15048																	
	219	OBS	0147	1318	35722	2693			15048																	
		STD	0150	1317	3572	2693	0011716	0178	15048																	
	219	OBS	T0199	1294	35684	2695			15048																	
		STD	0200	1293	3568	2695	0011678	0236	15048																	
		STD	0250	1243	3560	2699	0011435	0294	15038																	
	219	OBS	0284	1213	35549	2701			15033																	
		STD	0300	1206	3554	2701	0011303	0351	15033																	
	219	OBS	0376	1152	35476	2707			15026																	
		STD	0400	1128	3544	2709	0010840	0461	15021																	
	219	OBS	T0480	1022	35300	2717			14994																	
		STD	0500	0983	3526	2720	0009830	0565	14983																	
	219	OBS	0558	0879	35153	2729			14953																	
		STD	0600	0817	3513	2737	0008274	0655	14936																	
		STD	0700	0690	3507	2751	0006970	0731	14903																	
	219	OBS	T0748	0638	35050	2756			14890																	
		STD	0800	0590	3503	2761	0005998	0796	14879																	
		STD	0900	0517	3499	2767	0005438	0853	14866																	
	219	OBS	0923	0503	34984	2768			14864																	
		STD	1000	0478	3498	2771	0005116	0906	14866																	
		STD	1100	0449	3497	2773	0004921	0956	14871																	
	219	OBS	1155	0435	34969	2775			14874																	
		STD	1200	0425	3496	2775	0004785	1005	14877																	
		STD	1300	0405	3495	2776	0004697	1052	14886																	
	219	OBS	T1390	0392	34937	2777			14895																	



TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DRIFT INDEXT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA		
31	888	CS	4454 N	04057 W		149	40	03	24	131	1967	007	005	4663	13	27	3	2		X2	8	5		0005
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB	VIS. CODE											
								27	520	254	094	061	8	14										
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$ ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^1$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S. C. C.							
		STD	0000	1474	3600	2682	0012402	0000	15078															
131		OBS	0000	1474	36000	2682			15078															
		STD	0010	1474	3600	2682	0012424	0012	15079															
		STD	0020	1473	3600	2682	0012446	0025	15081															
131		OBS	0024	1473	35996	2682			15082															
		STD	0030	1473	3600	2682	0012501	0037	15083															
131		OBS	0047	1474	35998	2682			15086															
		STD	0050	1472	3600	2682	0012542	0062	15085															
		STD	0075	1459	3597	2683	0012508	0094	15085															
131		OBS	0092	1449	35960	2684			15085															
		STD	0100	1444	3595	2684	0012447	0125	15084															
		STD	0125	1429	3592	2685	0012431	0156	15083															
131		OBS	0138	1421	35903	2686			15082															
		STD	0150	1413	3589	2686	0012396	0187	15082															
131		OBS	T0184	1388	35858	2689			15079															
		STD	0200	1373	3583	2690	0012166	0248	15076															
		STD	0250	1330	3575	2693	0012031	0309	15069															
131		OBS	0268	1315	35729	2694			15067															
		STD	0300	1298	3570	2696	0011901	0369	15066															
131		OBS	0351	1256	35636	2699			15059															
		STD	0400	1201	3555	2703	0011391	0485	15048															
131		OBS	T0433	1150	35474	2707			15034															
		STD	0500	1009	3530	2719	0009983	0592	14993															
131		OBS	0512	0985	35272	2721			14986															
		STD	0600	0826	3512	2735	0008488	0684	14939															
131		OBS	T0663	0730	35047	2743			14912															
		STD	0700	0679	3504	2750	0007032	0762	14898															
		STD	0800	0570	3503	2764	0005725	0826	14871															
131		OBS	0809	0562	35027	2764			14869															
		STD	0900	0522	3502	2769	0005282	0881	14868															
		STD	1000	0483	3501	2772	0004960	0932	14869															
131		OBS	1023	0475	35009	2773			14869															
		STD	1100	0450	3499	2775	0004786	0981	14871															
		STD	1200	0424	3497	2776	0004699	1028	14877															
131		OBS	T1279	0407	34946	2776			14883															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC DEVIATION	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE NO.	STATION NUMBER					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
31	888	CS	4400 N	04106 W		149	41	03	25	127	1967	D07	006	4663	08	36	3	3		X2	6	8		0006		
						WATER		WIND		BARO- METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	MEAS- URE	DRY BULB	WET BULB	VIS. CODE													
								10	S18	227	128	117	6	11												
MESSNGR TIME HR 1/10	CASL NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SDUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>2</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S CC									
		STO	0000	1418	3585	2682	0012356	0000	15058																	
127		OBS	0000	1418	35849	2682			15058																	
		STD	0010	1419	3585	2682	0012395	0012	15060																	
		STD	0020	1419	3585	2682	0012435	0025	15062																	
127		OBS	0021	1419	35849	2682			15062																	
		STO	0030	1419	3585	2682	0012457	0037	15063																	
127		OBS	0042	1418	35848	2682			15065																	
		STO	0050	1411	3585	2684	0012376	0062	15064																	
		STD	0075	1394	3584	2687	0012134	0093	15063																	
127		OBS	0089	1388	35841	2688			15063																	
		STD	0100	1387	3584	2688	0012066	0123	15064																	
		STO	0125	1385	3585	2689	0012064	0153	15068																	
127		OBS	0134	1384	35848	2689			15069																	
		STD	0150	1368	3583	2691	0011923	0183	15066																	
127		OBS	0180	1346	35798	2693			15063																	
		STO	0200	1346	3580	2694	0011851	0243	15067																	
		STO	0250	1341	3580	2695	0011877	0302	15073																	
127		OBS	0271	1337	35802	2696			15075																	
		STD	0300	1334	3578	2695	0012030	0362	15079																	
		STD	0362	1306	35721	2696			15079																	
		STD	0400	1279	3569	2699	0011871	0481	15076																	
127		OBS	T0455	1205	35584	2705			15058																	
		STD	0500	1085	3540	2713	0010591	0593	15022																	
127		OBS	0558	0952	35226	2723			14981																	
		STD	0600	0871	3520	2734	0008588	0689	14957																	
		STD	0700	0731	3515	2751	0006979	0767	14920																	
127		OBS	T0780	0671	35108	2756			14909																	

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER				DIR.	HGT	PER		SEA	TYPE	
31	888	CS	4355 N	04107 W	149	31	03	26	130	1967	007	007	4663	17	07	07	4	2		X4	8		0007	
						WATER		WIND		BARO-METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL. (m)	DIR.	SPEED OF FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE											
								07	S30	159	144	139	4	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10 <sup>7</sup>	Σ Δ σ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	σ <sub>t</sub> C							
		STD	0000	1515	3607	2678	0012787	0000	15092															
130		OBS	0000	1515	36065	2678			15092															
		STD	0010	1516	3607	2678	0012831	0013	15094															
		STD	0020	1518	3607	2677	0012881	0026	15096															
130		OBS	0024	1518	36069	2677			15097															
		STD	0030	1518	3608	2678	0012835	0039	15098															
130		OBS	0047	1515	36083	2679			15100															
		STD	0050	1512	3608	2679	0012770	0064	15099															
		STD	0075	1493	3603	2680	0012810	0096	15097															
130		OBS	0096	1482	36012	2681			15096															
		STD	0100	1482	3601	2681	0012801	0128	15097															
		STD	0125	1480	3601	2681	0012835	0160	15100															
130		OBS	0144	1477	36003	2681			15103															
		STD	0150	1477	3600	2681	0012921	0192	15103															
130		OBS	0191	1463	35975	2682			15105															
		STD	0200	1466	3595	2684	0012787	0257	15101															
		STD	0250	1374	3584	2691	0012256	0319	15085															
130		OBS	0289	1343	35802	2694			15080															
		STD	0300	1356	3584	2695	0012034	0380	15087															
130		OBS	0390	1370	35904	2697			15107															
		STD	0400	1352	3586	2697	0012088	0501	15102															
130		OBS	T0498	1170	35496	2705			15052															
		STD	0500	1165	3549	2705	0011402	0618	15051															
		STD	0600	0959	3524	2723	0009780	0724	14991															
130		OBS	0603	0954	35234	2723			14989															
		STD	0700	0816	3519	2742	0007999	0813	14953															
		STD	0800	0694	3514	2756	0006671	0886	14922															
130		OBS	T0825	0666	35122	2758			14915															
		STD	0900	0587	3505	2763	0005943	0949	14895															
		STD	1000	0504	3499	2768	0005383	1006	14877															
130		OBS	1058	0468	34959	2770			14871															
		STD	1100	0460	3496	2771	0005144	1059	14875															
		STD	1200	0443	3496	2773	0005033	1109	14885															
		STD	1300	0426	3496	2775	0004917	1159	14895															
130		OBS	1353	0418	34956	2775			14900															
		STD	1400	0411	3495	2776	0004867	1208	14905															
		STD	1500	0397	3495	2777	0004774	1256	14916															
130		OBS	T1658	0376	34934	2778			14934															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE INDICED	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOD STATION NUMBER	
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	888	CS	4407 N	04104 W	149	41	03	27	173	1967	007	008	4663	44	07	4	2	X2	8	1	0008		
				WATER		WIND		AIR TEMP. °C															
				COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		BARO- METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS	
						08		S03		166		183		156		7		20					
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\frac{\Delta \sigma}{\text{CYN. M.}} \times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	PH	S C C						
		STD	0000	1522	3599	2670	0013483	0000	15093														
173		OBS	0000	1522	35990	2670			15093														
		STD	0010	1499	3599	2675	0013028	0013	15087														
		STD	0020	1483	3599	2679	0012724	0026	15084														
173		OBS	0025	1477	35989	2680			15083														
		STD	0030	1477	3599	2680	0012636	0039	15084														
		STD	0050	1474	3599	2681	0012635	0064	15086														
173		OBS	0050	1474	35989	2681			15086														
		STD	0075	1474	3598	2680	0012769	0096	15090														
		STD	0100	1464	3597	2682	0012702	0128	15091														
173		OBS	0100	1464	35972	2682			15091														
		STD	0125	1439	3592	2683	0012637	0159	15086														
173		OBS	0149	1413	35879	2686			15081														
		STD	0150	1411	3588	2686	0012450	0191	15081														
		STD	0200	1352	3579	2692	0012022	0252	15069														
173		OBS	T0200	1352	35792	2692			15069														
		STD	0250	1355	3582	2693	0012055	0312	15078														
		STD	0300	1358	3584	2694	0012089	0372	15088														
173		OBS	0300	1358	35838	2694			15088														
173		OBS	0399	1251	35627	2699			15065														
		STD	0400	1249	3562	2699	0011797	0492	15065														
		STD	0500	1023	3529	2716	0010314	0602	14998														
173		OBS	T0500	1023	35288	2716			14998														
173		OBS	0598	0836	35121	2733			14943														
		STD	0600	0832	3512	2734	0008583	0697	14942														
		STD	0700	0675	3503	2750	0007048	0775	14896														
		STD	0800	0562	3497	2760	0006060	0841	14867														
173		OBS	0802	0560	34968	2760			14867														
		STD	0900	0507	3497	2766	0005469	0898	14861														
173		OBS	0996	0468	34967	2771			14861														
		STD	1000	0467	3497	2771	0005069	0951	14861														
		STD	1100	0447	3497	2773	0004917	1001	14870														
		STD	1200	0429	3497	2775	0004785	1049	14879														
173		OBS	1244	0422	34967	2776			14884														
		STD	1300	0413	3496	2776	0004726	1097	14889														
		STD	1400	0398	3494	2776	0004771	1144	14899														
173		OBS	T1493	0387	34935	2777			14910														
		STD	1500	0387	3494	2777	0004752	1192	14912														
		STD	1750	0373	3494	2778	0004771	1311	14948														
		STD	2000	0360	3494	2780	0004780	1430	14985														
203		OBS	T2025	0359	34938	2780			14989														
		STD	2500	0337	3494	2782	0004813	1670	15061														
203		OBS	T2566	0333	34943	2783			15070														
		STD	3000	0308	3494	2785	0004714	1908	15135														
203		OBS	3120	0300	34937	2786			15152														
203		OBS	T3674	0261	34920	2788			15232														
		STD	4000	0239	3491	2789	0004366	2362	15280														
203		OBS	4224	0232	34903	2789			15316														
203		OBS	4410	0232	34902	2789			15349														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER				DIR	HGT	PER				SEA			
31	888	CS	4350 N	04045 W		149	30	03	28	170	1967	D07	009		4480	07	08	4	2		X4	6	8		0009	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-STD	Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg-at/l	TOTAL-P μg-at/l	NO <sub>2</sub> -N μg-at/l	NO <sub>3</sub> -N μg-at/l	SiO <sub>4</sub> -Si μg-at/l	PH	S.C.C.
		STD	0000	1431	3590	2683	0012240	0000	15063								
170		OBS	0000	1431	35901	2683			15063								
		STD	0010	1431	3590	2683	0012269	0012	15064								
		STD	0020	1430	3590	2684	0012292	0025	15066								
170		OBS	0027	1430	35897	2683			15067								
		STD	0030	1429	3590	2683	0012332	0037	15067								
		STD	0050	1421	3588	2684	0012331	0062	15068								
170		OBS	0053	1420	35879	2684			15068								
		STD	0075	1402	3585	2686	0012245	0092	15065								
		STD	0100	1384	3583	2688	0012100	0123	15063								
170		OBS	0107	1379	35824	2689			15063								
		STD	0125	1366	3582	2691	0011884	0153	15061								
		STD	0150	1352	3582	2694	0011676	0182	15061								
170		OBS	0161	1347	35816	2695			15061								
		STD	0200	1341	3580	2695	0011745	0241	15065								
170		OBS	0215	1337	35795	2695			15066								
		STD	0250	1330	3578	2695	0011812	0300	15069								
		STD	0300	1300	3573	2698	0011722	0358	15067								
170		OBS	0326	1275	35686	2699			15062								
		STD	0400	1161	3549	2706	0011081	0472	15033								
170		OBS	0437	1093	35391	2711			15014								
		STD	0500	0937	3520	2723	0009498	0575	14965								
170		OBS	T0551	0835	35099	2732			14934								
		STD	0600	0756	3504	2739	0008003	0663	14912								
170		OBS	0666	0681	35031	2749			14893								

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SPEED KNOTS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA				
																							10"
31	888	CS	4402 N	04100 W		149	41	03	29	141	1967	007	010	4663	16	09	4	2		X4	6	8	0010
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		WET BULB		VIS. CODE											
		10		S11		122		156		156		6		13									
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-RIG?	Σ Δ O DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	σ <sub>t</sub>						
		STO	0000	1447	3590	2680	0012567	0000	15068														
141		OBS	0000	1447	35901	2680			15068														
		STD	0010	1447	3591	2681	0012532	0013	15070														
		STD	0020	1447	3592	2681	0012489	0025	15072														
141		OBS	0026	1447	35921	2682			15073														
		STD	0030	1447	3592	2681	0012519	0038	15073														
		STD	0050	1443	3592	2682	0012511	0063	15075														
141		OBS	0050	1443	35918	2682			15075														
		STD	0075	1420	3589	2685	0012318	0094	15072														
		STD	0100	1397	3587	2688	0012070	0124	15068														
141		OBS	0102	1395	35865	2688			15068														
		STD	0125	1370	3584	2692	0011803	0154	15063														
		STD	0150	1349	3582	2694	0011646	0183	15060														
141		OBS	0155	1346	35811	2694			15060														
		STD	0200	1332	3579	2696	0011639	0241	15062														
141		OBS	T0206	1331	35788	2696			15063														
		STD	0250	1338	3582	2696	0011707	0300	15073														
		STD	0300	1347	3585	2697			15084														
141		OBS	0309	1348	35857	2698	0011763	0359	15086														
		STD	0400	1163	3550	2707	0011045	0473	15034														
141		OBS	0413	1138	35460	2708			15027														
		STD	0500	0968	3525	2722	0009649	0576	14978														
		STD	0600	0800	3508	2736	0008378	0666	14929														
141		OBS	0623	0766	35048	2738			14919														
		STD	0700	0657	3501	2751	0006938	0743	14889														
		STD	0800	0553	3498	2762	0005866	0807	14864														
141		OBS	T0839	0523	34972	2765			14858														
		STD	0900	0510	3499	2768	0005346	0863	14863														
		STD	1000	0488	3500	2771	0005099	0915	14871														
141		OBS	1058	0475	35006	2773			14875														
		STD	1100	0462	3500	2774	0004876	0965	14877														
		STD	1200	0435	3498	2776	0004753	1013	14882														
		STD	1300	0413	3497	2777	0004682	1060	14889														
141		OBS	T1333	0407	34960	2777			14892														
		STD	1400	0396	3495	2777	0004671	1107	14899														
		STD	1500	0384	3494	2778	0004677	1154	14910														
141		OBS	T1610	0376	34929	2778			14925														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	DEPTH INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	OAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT PER	SEA				
31	888	CS	4402 N	04101 W		149	41	03	30	125	1967	007	011	4708	16	14	1	2	X2	6	6	0011
						WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL. (m)	OIL	SPEED OR FORCE		DRY BULB	WET BULB										
						24	513	058	150	139	7	13										
MESSAGE TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	S. CL.				
		STD	0000	1496	3599	2676	0012913		0000	15085												
125		OBS	0000	1496	35993	2676	0012943		0013	15087												
		STD	0010	1496	3599	2676	0012974		0026	15088												
		STD	0020	1496	3599	2676	0012922		0039	15088												
125		OBS	0026	1496	35993	2676	0012731		0064	15086												
		STD	0030	1491	3599	2677	0012745		0096	15089												
		STD	0050	1473	3597	2680	0012776		0128	15092												
125		OBS	0051	1472	35972	2680	0012671		0160	15083												
		STD	0075	1470	3597	2681	0012516		0192	15077												
		STD	0100	1467	3597	2681	0012280		0254	15077												
125		OBS	T0102	1467	35971	2681	0012265		0315	15080												
		STD	0125	1430	3589	2683	0012096		0376	15077												
		STD	0150	1401	3584	2685	0011605		0494	15054												
125		OBS	0154	1397	35832	2685	0009833		0601	14988												
		STD	0200	1375	3582	2689	0008397		0693	14931												
125		OBS	T0205	1373	35813	2689	0005973		0834	14867												
		STD	0250	1360	3580	2691	0005546		0892	14864												
		STD	0300	1330	3576	2694	0005215		0946	14867												
125		OBS	0307	1324	35754	2695	0005007		0997	14871												
		STD	0400	1220	3557	2701	0004859		1046	14877												
125		OBS	0408	1209	35555	2702	0004770		1094	14886												
		STD	0500	0996	3529	2720	0004753		1142	14896												
		STD	0600	0806	3509	2736	0004711		1189	14909												
125		OBS	0613	0785	35075	2738	0003925		1277	14919												
		STD	0700	0664	3502	2750	0003911		1311	14919												
		STD	0800	0561	3498	2761	0003900		1345	14919												
125		OBS	T0820	0545	34976	2762	0003889		1379	14919												
		STD	0900	0514	3497	2766	0003878		1413	14919												
		STD	1000	0480	3497	2770	0003867		1447	14919												
125		OBS	1033	0470	34968	2771	0003856		1481	14919												
		STD	1100	0450	3496	2772	0003845		1515	14919												
		STD	1200	0425	3495	2774	0003834		1549	14919												
125		OBS	T1296	0406	34942	2776	0003823		1583	14919												
		STD	1300	0405	3494	2775	0003812		1617	14919												
		STD	1400	0391	3493	2776	0003801		1651	14919												
		STD	1500	0381	3493	2777	0003790		1685	14919												
125		OBS	T1568	0378	34925	2777	0003779		1719	14919												

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA	
31	888	CS	4403 N	04054 W	149	40	03	31	126	1967	007	012	4745	14	23	0	2	X2	6	8	0012
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				27	505	173	150	139	7	13											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SI O <sub>4</sub> -SI $\mu\text{g} - \text{at/l}$	pH	S C C				
		STD	0000	1521	3600	2671	0013426	0000	15093												
126		OBS	0000	1521	35995	2671			15093												
		STD	0010	1521	3600	2671	0013420	0013	15094												
		STD	0020	1521	3601	2672	0013378	0027	15096												
126		OBS	0025	1521	36014	2672			15097												
		STD	0030	1518	3602	2673	0013309	0040	15097												
126		OBS	0049	1506	36017	2676			15096												
		STD	0050	1506	3602	2676	0013102	0067	15097												
		STD	0075	1499	3600	2676	0013134	0099	15098												
126		OBS	0099	1488	35989	2678			15098												
		STD	0100	1488	3599	2678	0013088	0132	15099												
		STD	0125	1472	3595	2678	0013105	0165	15097												
126		OBS	0148	1452	35915	2680			15094												
		STD	0150	1449	3591	2680	0012992	0198	15093												
		STD	0200	1386	3589	2692	0011991	0260	15081												
126		OBS	T0200	1386																	
		STD	0250	1369	3584	2692	0012155	0320	15083												
126		OBS	0295	1334	35766	2693			15078												
		STD	0300	1328	3575	2693	0012130	0381	15077												
126		OBS	0393	1196	35519	2702			15044												
		STD	0400	1181	3550	2703	0011380	0499	15040												
		STD	0500	0986	3525	2719	0009955	0605	14984												
126		OBS	0582	0844	35115	2732			14943												
		STD	0600	0813	3510	2735	0008432	0697	14934												
		STD	0700	0664	3504	2752	0006817	0773	14892												
126		OBS	T0772	0582	35001	2760			14871												
		STD	0800	0560	3499	2762	0005886	0837	14867												
		STD	0900	0497	3497	2768	0005324	0893	14857												
126		OBS	0957	0470	34961	2770			14855												
		STD	1000	0463	3497	2772	0004996	0945	14860												
		STD	1100	0447	3497	2773	0004895	0994	14870												
		STD	1200	0431	3497	2775	0004782	1042	14880												
126		OBS	T1200	0431	34971	2775			14880												
		STD	1300	0415	3496	2776	0004752	1090	14890												
		STD	1400	0398	3494	2776	0004771	1138	14899												
126		OBS	T1450	0390	34933	2776			14904												



TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME IGMT			YEAR	DRIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYM	AMT		
31	888	CS	4403 N	04153 W	149	41	04	01	134	1967	D07	013	4663	15	07	1	2	X2	4	5	0013				
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
				COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		METER (mba)		DRY BULB		WET BULB		7		13					
						09		S09		257		161		128		7		13							
MESSNGR TIME HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ D. DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>2</sub> -Si µg - at/l	pH	S C								
		STD	0000	1512	3594	2669	0013651	0000	15089																
134		OBS	0000	1512	35938	2669	0013651	0000	15089																
		STD	0010	1500	3597	2674	0013196	0013	15087																
		STD	0020	1492	3599	2677	0012912	0026	15087																
134		OBS	0025	1488	35995	2678	0012838	0039	15087																
		STD	0030	1487	3599	2678	0012838	0039	15087																
		STD	0050	1480	3599	2679	0012789	0065	15088																
134		OBS	0050	1480	35985	2679	0012789	0065	15088																
		STD	0075	1465	3597	2681	0012662	0097	15087																
		STD	0100	1446	3594	2683	0012547	0128	15085																
134		OBS	0100	1446	35942	2683	0012547	0128	15085																
		STD	0125	1421	3589	2685	0012486	0160	15080																
		STD	0150	1397	3584	2686	0012406	0191	15076																
134		OBS	0150	1397	35844	2686	0012406	0191	15076																
		STD	0200	1356	3578	2690	0012190	0252	15070																
134		OBS	T0205	1352	35776	2690	0012190	0252	15069																
		STD	0250	1315	3572	2694	0011953	0313	15064																
		STD	0300	1263	3564	2698	0011658	0372	15053																
134		OBS	0302	1261	35635	2698	0011658	0372	15053																
		STD	0400	1124	3544	2709	0010767	0484	15019																
134		OBS	0402	1121	35438	2710	0010767	0484	15019																
		STD	0500	0934	3527	2729	0008949	0582	14965																
		STD	0600	0772	3510	2741	0007839	0666	14918																
134		OBS	0602	0769	35091	2741	0007839	0666	14918																
		STD	0700	0636	3502	2754	0006569	0738	14881																
		STD	0800	0539	3498	2763	0005680	0800	14858																
134		OBS	T0802	0537	34976	2763	0005680	0800	14857																
		STD	0900	0494	3497	2768	0005292	0854	14856																
		STD	1000	0459	3496	2771	0005004	0906	14858																
134		OBS	1003	0458	34962	2771	0005004	0906	14858																
		STD	1100	0437	3496	2773	0004862	0955	14866																
		STD	1200	0419	3495	2775	0004760	1003	14875																
134		OBS	T1254	0410	34950	2776	0004760	1003	14880																
		STD	1300	0403	3495	2776	0004671	1050	14885																
		STD	1400	0390	3494	2777	0004667	1097	14896																
		STD	1500	0381	3493	2777	0004711	1144	14909																
134		OBS	T1506	0380	34928	2777	0004711	1144	14910																

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAGNETIC INDIC.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE NO.	STATION NUMBER					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT.	PER.		SEA	TYPE		AMT.
31	888	CS	4350 N	04045 W		149	30	04	02	137	1967	D07	014	4709	16	14	2	2		X2	4	5		0014
						WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
									14	514	210	161	156	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C							
		STD	0000	1528	3598	2668	0013684	0000	15095															
137		OBS	0000	1528	35980	2668			15095															
		STD	0010	1516	3598	2671	0013438	0014	15093															
		STD	0020	1504	3599	2674	0013187	0027	15091															
137		OBS	0027	1496	35989	2676			15089															
		STD	0030	1492	3598	2676	0013016	0040	15088															
		STD	0050	1467	3595	2679	0012774	0066	15083															
137		OBS	0053	1464	35943	2680			15083															
		STD	0075	1452	3593	2681	0012684	0098	15082															
		STD	0100	1438	3591	2683	0012616	0129	15082															
137		OBS	0106	1434	35907	2683			15081															
		STD	0125	1423	3589	2684	0012527	0161	15081															
		STD	0150	1405	3586	2686	0012452	0192	15079															
137		OBS	0160	1396	35851	2687			15077															
		STD	0200	1350	3577	2690	0012143	0253	15068															
137		OBS	T0213	1337	35753	2692			15065															
		STD	0250	1318	3573	2694	0011939	0314	15065															
		STD	0300	1281	3567	2697	0011788	0373	15060															
137		OBS	0319	1263	35642	2698			15057															
		STD	0400	1162	3548	2705	0011172	0488	15033															
137		OBS	0426	1125	35430	2708			15024															
		STD	0500	0979	3529	2723	0009542	0591	14982															
		STD	0600	0809	3514	2739	0008076	0679	14933															
137		OBS	0643	0745	35087	2744			14915															
		STD	0700	0666	3504	2752	0006845	0754	14893															
		STD	0800	0559	3499	2762	0005872	0818	14866															
137		OBS	T0862	0511	34969	2766			14857															
		STD	0900	0503	3498	2768	0005328	0874	14860															
		STD	1000	0481	3499	2771	0005081	0926	14868															
137		OBS	1084	0462	34997	2774			14874															
		STD	1100	0457	3499	2774	0004877	0975	14874															
		STD	1200	0430	3497	2775	0004776	1024	14880															
		STD	1300	0409	3495	2776	0004748	1071	14887															
137		OBS	T1363	0398	34944	2777			14893															
		STD	1400	0393	3494	2777	0004691	1118	14897															
		STD	1500	0382	3494	2778	0004665	1165	14910															
137		OBS	T1642	0375	34931	2778			14930															

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE " /10	LONGITUDE " /10	GIBRE INDEX	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	OAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA			
						149	41	04	03	130												
MESSENGR TIME OF HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	PH	S CLC			
								WATER												WIND		BARO-METER (mb)
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE														
			15	S21	102	161	150	7	13													
			STD	0000	1388	3578	2683	0012234	0000	15048												
130			OBS	0000	1388	35783	2683			15048												
			STD	0010	1387	3578	2684	0012255	0012	15049												
			STD	0020	1385	3578	2684	0012254	0024	15050												
130			OBS	0027	1384	35776	2684			15051												
			STD	0030	1376	3577	2685	0012177	0037	15048												
			STD	0050	1332	3577	2694	0011364	0060	15037												
130			OBS	0053	1327	35765	2695			15036												
			STD	0075	1316	3575	2696	0011268	0089	15036												
			STD	0100	1309	3575	2697	0011202	0117	15037												
130			OBS	0105	1308	35748	2697			15038												
			STD	0125	1310	3575	2697	0011259	0145	15042												
			STD	0150	1312	3576	2697	0011331	0173	15047												
130			OBS	0157	1312	35760	2697			15048												
			STD	0200	1273	3567	2698	0011364	0230	15041												
130			OBS	T0208	1265	35650	2698			15039												
			STD	0250	1232	3560	2701	0011226	0286	15034												
			STD	0300	1179	3552	2705	0010946	0342	15023												
130			OBS	0318	1156	35490	2707			15018												
			STD	0400	1014	3529	2717	0009923	0446	14978												
130			OBS	0429	0968	35236	2721			14966												
			STD	0500	0863	3518	2734	0008444	0538	14938												
			STD	0600	0734	3511	2748	0007160	0616	14904												
130			OBS	0652	0676	35080	2754			14889												
			STD	0700	0626	3505	2758	0006208	0683	14877												
			STD	0800	0540	3501	2766	0005472	0741	14859												
130			OBS	0878	0490	34988	2770			14851												
			STD	0900	0484	3499	2770	0005037	0794	14852												
			STD	1000	0456	3498	2773	0004865	0843	14857												
			STD	1100	0429	3497	2775	0004689	0891	14862												
130			OBS	1102	0428	34966	2775			14862												
			STD	1200	0411	3495	2776	0004680	0938	14871												
			STD	1300	0397	3494	2776	0004668	0984	14882												
130			OBS	T1387	0387	34938	2777			14893												
			STD	1400	0386	3494	2777	0004630	1031	14894												
			STD	1500	0377	3494	2778	0004622	1077	14907												
130			OBS	T1694	0369	34930	2778			14937												

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE MOY. INCHES	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER		
CRUISE CODE	IO, NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER	SEA
31	888	CS	4356 N	04036 W	149	30	04	04	175	1967	007	016	4663	16	14	2	2	X2	6	7	0016	
						WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mbars)	DRY BULB	WET BULB	VIS. CODE									
								15	S13	098	156	122	6	13								
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 <sup>3</sup>	Σ Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S C C					
		STD	0000	1477	3591	2674	0013137	0000	15078													
175		OBS	0000	1477	35908	2674			15078													
		STD	0010	1444	3589	2680	0012616	0013	15069													
		STD	0020	1416	3587	2684	0012221	0025	15061													
175		OBS	0028	1397	35858	2687			15056													
		STD	0030	1393	3585	2688	0011932	0037	15055													
		STD	0050	1360	3583	2693	0011477	0061	15047													
175		OBS	0054	1355	35824	2694			15046													
		STD	0075	1354	3583	2694	0011433	0089	15049													
		STD	0100	1353	3583	2694	0011487	0118	15053													
175		OBS	0108	1353	35834	2695			15054													
		STD	0125	1351	3583	2695	0011527	0147	15056													
		STD	0150	1343	3582	2696	0011497	0176	15058													
175		OBS	0164	1336	35815	2697			15058													
		STD	0200	1305	3574	2697	0011473	0233	15052													
175		OBS	T0218	1293	35710	2697			15051													
		STD	0250	1284	3569	2698	0011542	0291	15053													
		STD	0300	1270	3567	2699	0011598	0348	15056													
175		OBS	0327	1262	35652	2699			15058													
		STD	0400	1114	3543	2710	0010659	0460	15016													
175		OBS	0435	1047	35335	2715			14997													
		STD	0500	0919	3522	2728	0009054	0558	14959													
		STD	0600	0753	3508	2743	0007664	0642	14911													
175		OBS	0654	0680	35024	2749			14891													
		STD	0700	0631	3501	2754	0006573	0713	14879													
		STD	0800	0544	3498	2763	0005746	0775	14860													
175		OBS	0873	0497	34964	2767			14853													
		STD	0900	0489	3496	2768	0005264	0830	14854													
		STD	1000	0463	3496	2771	0005040	0881	14860													
175		OBS	1089	0443	34964	2773			14866													
		STD	1100	0441	3496	2773	0004862	0931	14867													
		STD	1200	0424	3496	2775	0004780	0979	14877													
		STD	1300	0409	3495	2776	0004719	1026	14887													
175		OBS	T1358	0401	34951	2777			14894													
		STD	1400	0396	3495	2777	0004671	1073	14899													
		STD	1500	0385	3494	2778	0004690	1120	14911													
175		OBS	T1627	0375	34931	2778			14928													

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUPLE FOUR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY RULB	WET RULB	VIS. CODE														
				29	S11	098	128	111	7	13												
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ ρ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-N μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	CO <sub>2</sub>					
		STD	0000	1497	3596	2673	0013204	0000	15085													
136		OBS	0000	1497	35956	2673			15085													
		STD	0010	1497	3596	2673	0013243	0013	15086													
		STD	0020	1498	3596	2673	0013282	0026	15088													
136		OBS	0026	1498	35956	2673			15089													
		STD	0030	1498	3596	2673	0013317	0040	15090													
		STD	0050	1498	3596	2673	0013379	0066	15093													
136		OBS	0051	1498	35956	2673			15093													
		STD	0075	1496	3590	2669	0013828	0100	15096													
		STD	0100	1495	3589	2668	0013969	0135	15099													
136		OBS	0100		35886																	
		STD	0125	1493	3595	2674	0013540	0170	15104													
136		OBS	0149	1491	35966	2675			15107													
		STD	0150	1487	3596	2676	0013423	0203	15106													
136		OBS	T0199	1347	35820	2695			15067													
		STD	0200	1347	3582	2695	0011713	0266	15067													
		STD	0250	1353	3585	2696	0011756	0325	15078													
136		OBS	0295	1358	35876	2697			15087													
		STD	0300	1356	3587	2697	0011815	0384	15087													
136		OBS	0393	1285	35693	2698			15077													
		STD	0400	1268	3567	2699	0011802	0502	15072													
		STD	0500	1048	3537	2718	0010151	0612	15008													
136		OBS	0582	0897	35182	2728			14964													
		STD	0600	0869	3516	2731	0008878	0707	14956													
		STD	0700	0730	3503	2742	0007854	0790	14918													
136		OBS	T0770	0648	34966	2748			14896													
		STD	0800	0627	3497	2751	0006983	0865	14893													
		STD	0900	0564	3497	2759	0006237	0931	14884													
136		OBS	0962	04830	35070	27770																
		STD	1000	0511	3497	2766	0005638	0990	14880													
		STD	1100	0467	3497	2771	0005169	1044	14878													
		STD	1200	0433	3497	2775	0004822	1094	14881													
136		OBS	T1210	0430	34969	2775			14881													
		STD	1300	0408	3496	2777	0004662	1141	14887													
		STD	1400	0394	3495	2777	0004645	1188	14898													
136		OBS	T1477	0389	34936	2777			14909													

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN- SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	888	CS	4358 N	04105 W	149	31	04	06	172	1967	007	018	4663	14	30	3	2	X2	6	8	0018	
						WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS M	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE														
				30	S05	257	089	061	4	13												
MESSING TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C					
		STD	0000	1473	3597	2680	0012593	0000	15077													
172		OBS	0000	1473	35971	2680			15077													
		STD	0010	1473	3597	2680	0012631	0013	15079													
		STD	0020	1473	3597	2680	0012661	0025	15081													
172		OBS	0024	1473	35969	2680			15081													
		STD	0030	1473	3597	2680	0012703	0038	15082													
172		OBS	0049	1474	35967	2679			15086													
		STD	0050	1472	3596	2679	0012805	0063	15085													
		STD	0075	1434	3590	2683	0012532	0095	15076													
172		OBS	0098	1411	35856	2684			15072													
		STD	0100	1411	3586	2684	0012457	0126	15072													
		STD	0125	1404	3585	2685	0012446	0157	15074													
172		OBS	0146	1397	35842	2686			15075													
		STD	0150	1394	3584	2687	0012374	0189	15075													
172		OBS	T0197	1371	35822	2690			15075													
		STD	0200	1371	3582	2690	0012170	0250	15075													
		STD	0250	1371	3585	2692	0012130	0311	15084													
172		OBS	0291	1361	35870	2696			15087													
		STD	0300	1360	3587	2696	0011918	0371	15089													
172		OBS	0385	1306	35836	2705			15084													
		STD	0400	1268	3576	2706	0011145	0486	15073													
		STD	0500	1041	3536	2718	0010101	0592	15005													
172		OBS	0570	0908	35172	2726			14966													
		STD	0600	0858	3515	2732	0008775	0687	14952													
		STD	0700	0719	3510	2749	0007175	0766	14915													
172		OBS	T0755	0663	35078	2755			14901													
		STD	0800	0643	3508	2758	0006401	0834	14901													
		STD	0900	0595	3507	2764	0005886	0896	14898													
172		OBS	0938	0575	35071	2766			14897													
		STD	1000	0527	3503	2769	0005396	0952	14887													
		STD	1100	0464	3498	2772	0005042	1004	14877													
172		OBS	T1173	0431	34955	2774			14875													
		STD	1200	0427	3495	2774	0004866	1054	14878													
		STD	1300	0414	3495	2775	0004837	1102	14889													
		STD	1400	0400	3494	2776	0004810	1151	14900													
172		OBS	T1428	0396	34936	2776			14903													

TABLE VI.—Continued

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF STAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER		
CRUISE NO.	IO. NO.					10"	1"	MO	DAY	HR.		MIN.	SEC.			CRUISE NO.	STATION NUMBER	DIR				HGT	PER
31	888	CS	4407 N	04054 W		149	40	04	07	121	1967	007	019	4755	16	21	3	2	X1	6	6	0019	
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB											
								19	S10	234	111	078	6	13									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ol/l	TOTAL-P μg - ol/l	NO <sub>2</sub> -N μg - ol/l	NO <sub>3</sub> -N μg - ol/l	SiO <sub>4</sub> -Si μg - ol/l	pH	ST. CL.						
		STD	0000	1428	3591	2684	0012142	0000	15062														
121		OBS	0000	1428	35906	2684			15062														
		STD	0010	1429	3591	2684	0012188	0012	15064														
		STD	0020	1430	3591	2684	0012232	0024	15066														
121		OBS	0026	1430	35906	2684			15067														
		STD	0030	1430	3591	2684	0012276	0037	15068														
		STD	0050	1431	3591	2684	0012360	0061	15071														
121		OBS	0051	1431	35905	2684			15071														
		STD	0075	1427	3589	2684	0012432	0092	15074														
		STD	0100	1414	3588	2686	0012321	0123	15074														
121		OBS	0102	1413	35882	2686			15074														
		STD	0125	1383	3586	2690	0011940	0154	15067														
		STD	0150	1362	3583	2693	0011773	0183	15064														
121		OBS	0154	1359	35830	2693			15064														
		STD	0200	1354	3582	2693	0011858	0242	15070														
121		OBS	T0210	1352	35816	2694			15071														
		STD	0250	1346	3581	2694	0011912	0302	15075														
		STD	0300	1310	3575	2697	0011773	0361	15071														
121		OBS	0306	1303	35736	2697			15069														
		STD	0400	1135	3545	2708	0010895	0474	15023														
121		OBS	0408	1121	35428	2709			15020														
		STD	0500	0944	3525	2726	0009247	0575	14969														
		STD	0600	0782	3511	2741	0007881	0661	14922														
121		OBS	0614	0762	35091	2742			14917														
		STD	0700	0651	3503	2753	0006706	0733	14887														
		STD	0800	0552	3498	2762	0005852	0796	14863														
121		OBS	T0817	0539	34976	2763			14861														
		STD	0900	0498	3497	2768	0005337	0852	14858														
		STD	1000	0460	3496	2771	0005031	0904	14859														
121		OBS	1028	0451	34954	2772			14859														
		STD	1100	0439	3495	2773	0004917	0954	14866														
		STD	1200	0424	3495	2774	0004831	1003	14877														
121		OBS	T1292	0411	34951	2776			14887														
		STD	1300	0410	3495	2776	0004761	1051	14888														
		STD	1400	0397	3494	2776	0004758	1098	14899														
		STD	1500	0386	3493	2777	0004776	1146	14911														
121		OBS	T1557	0380	34927	2777			14918														

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	888	C5	4405 N	04050 W		149	40	04	08	137	1967	D07	020	4663	15	19	2	2	X2	6	8	0020
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						16	517	193	150	117	7	13										
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - ml/l	TOTAL-P µg - ml/l	NO <sub>2</sub> -N µg - ml/l	NO <sub>3</sub> -N µg - ml/l	SiO <sub>4</sub> -Si µg - ml/l	pH	S C/C					
		STD	0000	1498	3603	2679	0012655	0000	15086													
	137	OBS	0000	1498	36034	2679			15086													
		STD	0010	1496	3603	2679	0012682	0013	15087													
		STD	0020	1495	3603	2679	0012708	0025	15088													
	137	OBS	0025	1494	36024	2679			15089													
		STD	0030	1467	3598	2682	0012494	0038	15080													
	137	OBS	0049	1389	35848	2688			15057													
		STD	0050	1389	3585	2688	0011932	0062	15057													
		STD	0075	1380	3583	2689	0011933	0092	15058													
		STD	0100	1365	3582	2691	0011822	0122	15057													
	137	OBS	0100	1365	35816	2691			15057													
		STD	0125	1337	3577	2693	0011674	0151	15051													
	137	OBS	0149	1319	35750	2695			15049													
		STD	0150	1319	3575	2695	0011536	0180	15049													
	137	OBS	T0196	1309	35745	2697			15053													
		STD	0200	1308	3574	2697	0011507	0238	15054													
		STD	0250	1287	3570	2698	0011522	0295	15054													
	137	OBS	0295	1268	35668	2699			15055													
		STD	0300	1257	3565	2700	0011469	0353	15052													
	137	OBS	0392	1074	35375	2713			15000													
		STD	0400	1059	3536	2715	0010191	0461	14995													
		STD	0500	0884	3516	2729	0008926	0557	14945													
	137	OBS	0587	0759	35054	2740			14911													
		STD	0600	0744	3505	2742	0007750	0640	14907													
		STD	0700	0639	3505	2756	0006390	0711	14882													
	137	OBS	T0779	0572	35031	2763			14868													
		STD	0800	0558	3502	2764	0005637	0771	14866													
		STD	0900	0502	3498	2768	0005315	0826	14859													
	137	OBS	0985	0465	34961	2771			14858													
		STD	1000	0461	3496	2771	0005036	0878	14859													
		STD	1100	0438	3496	2773	0004875	0927	14866													
		STD	1200	0419	3495	2775	0004753	0975	14875													
	137	OBS	T1248	0412	34952	2776			14880													
		STD	1300	0405	3495	2776	0004682	1022	14886													
		STD	1400	0396	3495	2777	0004657	1069	14899													
		STD	1500	0391	3495	2778	0004688	1116	14913													
	137	OBS	T1545	0390	34951	2778			14921													



TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIR INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	888	CS	4353 N	04032 W		149	30	04	09	140	1967	007	021	4709	17	18	5	2	X5	6	8	0021
						WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB				VIS. CODE						
								16	529	132	144	144	6	13								
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> °	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SIO <sub>4</sub> -Si μg - dl/l	pH	S C C					
		STD	0000	1467	3595	2679	0012629	0000	15075													
140		OBS	0000	1467	35949	2679			15075													
		STD	0010	1467	3595	2679	0012644	0013	15077													
		STD	0020	1466	3595	2680	0012666	0025	15078													
140		OBS	0025	1466	35951	2680			15079													
		STD	0030	1465	3595	2680	0012672	0038	15079													
140		OBS	0049	1453	35938	2682			15079													
		STD	0050	1450	3593	2682	0012567	0063	15078													
		STD	0075	1390	3585	2688	0012002	0094	15061													
140		OBS	0099	1352	35798	2692			15052													
		STD	0100	1352	3580	2692	0011695	0124	15052													
		STD	0125	1343	3578	2693	0011690	0153	15053													
		STD	0150	1333	3577	2694	0011658	0182	15054													
140		OBS	0150	1333	35771	2694			15054													
		STD	0200	1307	3574	2697	0011520	0240	15053													
140		OBS	T0200	1307	35739	2697			15053													
		STD	0250	1290	3571	2698	0011538	0298	15055													
		STD	0300	1272	3568	2699	0011555	0355	15057													
140		OBS	0304	1271	35676	2699			15057													
		STD	0400	1082	3540	2714	0010305	0465	15004													
140		OBS	0408	1067	35376	2715			15000													
		STD	0500	0876	3516	2730	0008798	0560	14942													
		STD	0600	0716	3501	2742	0007632	0642	14896													
140		OBS	0621	0688	34990	2745			14888													
		STD	0700	0619	3499	2754	0006568	0713	14874													
		STD	0800	0550	3498	2762	0005796	0775	14862													
140		OBS	0840	0528	34983	2765			14860													
		STD	0900	0521	3499	2767	0005476	0831	14867													
		STD	1000	0505	3501	2770	0005278	0885	14878													
		STD	1100	0484	3502	2773	0005003	0937	14886													
140		OBS	1145	0473	35027	2775			14889													
		STD	1200	0454	3500	2775	0004869	0986	14890													
		STD	1300	0424	3497	2776	0004796	1034	14894													
140		OBS	T1355	0410	34958	2776			14897													
		STD	1400	0400	3495	2777	0004694	1082	14900													
		STD	1500	0384	3495	2778	0004633	1128	14910													
140		OBS	T1675	0372	34931	2778			14935													

TABLE VI.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA	
31	888	CS	4354 N	04041 W	149 30	04	10	134	1967	D07	022	4663	16	16	4	2	X3	3	7	0022		
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS COOR		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
				COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE (mbal)		DRY BULB		WET BULB		VIS COOR		NO. OBS. DEPTHS				
						16		S19		159		167		156		7		13				
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -S $\mu\text{g} - \text{dl/l}$	pH	S.C.C.					
		STD	0000	1477	3596	2678	0012742	0000	15078													
134		OBS	0000	1477	35962	2678	0012787	0013	15078													
		STD	0010	1477	3596	2678	0012818	0026	15082													
		STD	0020	1477	3596	2678	0012818	0026	15082													
134		OBS	0026	1476	35958	2678	0012804	0038	15083													
		STD	0030	1475	3596	2678	0012753	0064	15084													
		STD	0050	1470	3596	2680	0012788	0096	15088													
134		OBS	0052	1469	35963	2680	0012853	0128	15092													
		STD	0075	1469	3596	2680	0012636	0160	15089													
		STD	0100	1468	3596	2680	0012466	0191	15084													
134		OBS	0103	1468	35963	2680	0012058	0252	15073													
		STD	0125	1446	3594	2683	0011926	0312	15075													
		STD	0150	1420	3590	2686	0011873	0372	15079													
134		OBS	0155	1415	35895	2686	0011026	0486	15033													
		STD	0200	1364	3582	2691	0011026	0486	15027													
134		OBS	T0208	1357	35816	2693	0009538	0589	14973													
		STD	0250	1347	3581	2694	0008221	0678	14923													
		STD	0300	1335	3580	2696	0006777	0753	14889													
134		OBS	0310	1332	35801	2697	0005725	0816	14866													
		STD	0400	1162	3550	2707	0004694	1113	14908													
		STD	0413	1138	35461	2708	0004694	1159	14918													
		STD	0500	0957	3524	2723	0004730	1018	14883													
		STD	0600	0785	3507	2737	0004730	1066	14897													
134		OBS	0621	0754	35046	2740	0004799	0971	14869													
		STD	0700	0656	3503	2752	0004730	1018	14883													
		STD	0800	0559	3501	2763	0004730	1066	14897													
134		OBS	T0828	0537	35001	2765	0004666	1113	14908													
		STD	0900	0500	3498	2768	0004694	1159	14918													
		STD	1000	0461	3497	2772	0004694	1159	14918													
134		OBS	1038	0450	34966	2773	0004666	1113	14908													
		STD	1100	0445	3498	2774	0004694	1159	14918													
		STD	1200	0438	3499	2776	0004694	1159	14918													
		STD	1300	0430	3499	2777	0004694	1159	14918													
134		OBS	T1303	0430	34991	2777	0004694	1159	14918													
		STD	1400	0418	3499	2778	0004694	1159	14918													
		STD	1500	0402	3497	2778	0004694	1159	14918													
134		OBS	T1585	0386	34953	2778	0004694	1159	14918													



TABLE VII. Observed and interpolated oceanographic data for stations taken by USCGC OWASCO at Ocean Station DELTA, 26 May-17 June 1967, prepared from NODC listing No. 31-1082 OW.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	1082	OW	44055N	040522W	149	40	03	26	132	1967	000	001	4755	15	01	1	2		X1	6	4	0001
WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
		09	506	268	111	083	8	14														
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ D. DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	SIG					
		STD	0000	1534	3588	2659	0014556	0000	15095													
132		OBS	0000	1534	35878	2659			15095													
		STD	0010	1534	3587	2658	0014646	0015	15097													
		STD	0020	1522	3586	2660	0014494	0029	15095													
132		OBS	0024	1514	35859	2662			15093													
		STD	0030	1487	3585	2667	0013861	0043	15085													
132		OBS	0047	1431	35846	2679			15070													
		STD	0050	1431	3585	2679	0012793	0070	15071													
		STD	0075	1432	3584	2679	0012911	0102	15075													
132		OBS	0094	1433	35840	2678			15078													
		STD	0100	1425	3584	2680	0012860	0134	15077													
		STD	0125	1347	3583	2685	0012435	0166	15072													
132		OBS	0143	1380	35827	2689			15069													
		STD	0150	1376	3582	2689	0012156	0197	15069													
132		OBS	0193	1352	35807	2693			15068													
		STD	0200	1349	3580	2693	0011904	0257	15068													
		STD	0250	1329	3578	2696	0011792	0316	15069													
132		OBS	0288	1313	35763	2698			15070													
		STD	0300	1312	3576	2697	0011739	0375	15071													
132		OBS	0383	1273	35697	2700			15071													
		STD	0400	1254	3566	2701	0011602	0492	15067													
132		OBS	T0482	1148	35486	2708			15042													
		STD	0500	1119	3544	2710	0010915	0604	15034													
132		OBS	0582	0989	35278	2721			14999													
		STD	0600	0952	3524	2724	0009661	0707	14988													
		STD	0700	0777	3510	2741	0008052	0796	14937													
132		OBS	0780	0670	35024	2750			14908													
		STD	0800	0654	3503	2753	0006896	0870	14905													
		STD	0900	0582	3503	2762	0006021	0935	14893													
132		OBS	0984	0535	35032	2768			14888													
		STD	1000	0529	3503	2769	0005423	0992	14888													
		STD	1100	0497	3503	2772	0005110	1045	14891													
		STD	1200	0471	3502	2775	0004947	1095	14897													
132		OBS	T1236	0462	35015	2775			14900													
		STD	1300	0450	3501	2776	0004845	1144	14905													
		STD	1400	0434	3500	2777	0004805	1192	14915													
		STD	1500	0424	3499	2777	0004878	1241	14928													
132		OBS	T1500	0424	34985	2777			14928													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MAGNETIC DEVIATION 1/10	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CITY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS				DIR.	HGT		PER	SEA	TYPE	AMT
																DIR.	HGT	PER								
31	082	OW	44005N	041022W		149	41	05	26	127	1967	006	002	4572	11	17	2	L		X6	5	8		0002		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
		COLOR CODE		DIR.		SPEED OF FORCE		DRY BULB		WET BULB																
		11		507		257		117		100		7		13												

MESSAGE TIME OF HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D OVR. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SIO <sub>4</sub> -S μg - at/l	pH	STATION CODE
		STD	0000	1544	3587	2656	0014828	0000	15098								
131		OBS	0000	1544	35870	2656			15098								
		STD	0010	1543	3587	2657	0014800	0015	15100								
		STD	0020	1541	3588	2657	0014774	0030	15101								
131		OBS	0022	1541	35879	2656			15101								
		STD	0030	1540	3588	2658	0014785	0044	15102								
131		OBS	0045	1534	35874	2659			15103								
		STD	0050	1524	3587	2661	0014528	0074	15100								
		STD	0075	1489	3588	2669	0013850	0109	15093								
131		OBS	0085	1475	35677	2671			15093								
		STD	0100	1484	3592	2673	0013485	0143	15096								
		STD	0125	1494	3599	2677	0013274	0177	15105								
131		OBS	0135	1496	35996	2676			15108								
		STD	0150	1481	3597	2678	0013224	0210	15104								
131		OBS	T0183	1442	35908	2682			15097								
		STD	0200	1419	3587	2684	0012611	0275	15091								
		STD	0250	1356	3579	2690	0012298	0338	15079								
131		OBS	0268	1339	35763	2692			15075								
		STD	0300	1320	3574	2694	0012044	0399	15074								
131		OBS	0352	1271	35669	2699			15065								
		STD	0400	1201	3555	2703	0011391	0516	15048								
131		OBS	T0438	1137	35450	2708			15030								
		STD	0500	1011	3529	2718	0010091	0623	14994								
131		OBS	0523	0966	35244	2722			14980								
		STD	0600	0813	3511	2736	0008359	0715	14934								
131		OBS	0691	0680	35017	2748			14897								
		STD	0700	0674	3502	2749	0007107	0793	14896								
		STD	0800	0606	3505	2761	0006071	0859	14886								
131		OBS	0864	0567	35059	2766			14881								
		STD	0900	0546	3505	2768	0005404	0916	14878								
		STD	1000	0453	3502	2772	0005054	0968	14873								
131		OBS	T1081	0456	34968	2774			14871								

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
31	082	OW	44015N	041015W		149	41	05	29	123	1967	008	003	4572	14	15	3		X2	3	8	0003
WATER		WIND		BARO-METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANK. UN.	DIR.	SPEED OR FORCE		DRY BUL.	WET BUL.																
				20	517	088	183	167	7	14												
MESSAGE TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D QTN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S.C.C.					
		STD	0000	1466	3584	2671	0013391	0000	15073													
125		OBS	0000	1466	35842	2671			15073													
		STD	0010	1463	3584	2672	0013378	0013	15074													
		STD	0020	1460	3584	2672	0013348	0027	15075													
125		OBS	0021	1460	35838	2672			15075													
		STD	0030	1456	3584	2673	0013311	0040	15075													
125		OBS	0045	1445	35834	2675			15074													
		STD	0050	1435	3563	2677	0012990	0066	15072													
		STD	0075	1392	3581	2685	0012335	0098	15061													
125		OBS	0089	1373	35799	2688			15057													
		STD	0100	1361	3580	2690	0011888	0128	15055													
		STD	0125	1340	3579	2694	0011587	0158	15052													
125		OBS	0133	1335	35788	2695			15052													
		STD	0150	1331	3578	2695	0011523	0187	15053													
125		OBS	0177	1322	35778	2697			15055													
		STD	0200	1316	3577	2697	0011509	0244	15057													
		STD	0250	1287	3571	2699	0011478	0302	15054													
125		OBS	0265	1272	35685	2700			15051													
		STD	0300	1212	3559	2704	0011051	0358	15035													
125		OBS	0354	1122	35446	2710			15011													
		STD	0400	1047	3534	2715	0010127	0464	14991													
125		OBS	T0444	0977	35254	2721			14972													
		STD	0500	0691	3517	2729	0008965	0559	14948													
125		OBS	0538	0837	35125	2734			14933													
		STD	0600	0761	3510	2743	0007637	0642	14914													
		STD	0700	0657	3506	2755	0006570	0713	14890													
125		OBS	0725	0634	35049	2757			14885													
		STD	0600	0573	3503	2763	0005766	0775	14872													
		STD	0900	0511	3501	2769	0005211	0830	14863													
125		OBS	0915	0504	35007	2770			14863													
		STD	1000	0489	3501	2771	0005075	0881	14871													
		STD	1100	0469	3500	2773	0004945	0931	14879													
125		OBS	T1164	0455	35000	2775			14884													
		STD	1200	0447	3499	2775	0004850	0980	14887													
		STD	1300	0423	3497	2776	0004783	1029	14893													
		STD	1400	0396	3494	2776	0004745	1076	14899													
125		OBS	T1409	0394	34937	2776			14899													

TABLE VII.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	L. or S.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT PER	SEA		TYPE	AMT	
31	1082	0W	44000N	041000W		149	41	05	30	127	1967	008	004	4755	15	24	4		X2	6	8	0004
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mb)		DRY BULB	WET BULB	VIS. CODE												
					24	S14	173	156	128	7	14											
MESSAGE TIME of NR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-210 <sup>2</sup>	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S. COC.					
		STD	0000	1544	3596	2663	0014178	0000	15100													
127		OBS	0000	1544	35959	2663			15100													
		STD	0010	1545	3596	2662	0014259	0014	15102													
		STD	0020	1547	3595	2662	0014338	0029	15104													
127		OBS	0024	1547	35952	2662			15104													
		STD	0030	1547	3596	2663	0014319	0043	15105													
		STD	0050	1545	3599	2665	0014116	0071	15108													
127		OBS	0050	1545	35992	2665			15108													
		STD	0075	1529	3598	2668	0013953	0106	15107													
127		OBS	0099	1497	35964	2674			15101													
		STD	0100	1494	3596	2674	0013418	0141	15100													
		STD	0125	1429	3585	2680	0012943	0174	15082													
127		OBS	0147	1387	35796	2665			15071													
		STD	0150	1384	3579	2685	0012537	0205	15071													
127		OBS	0196	1346	35783	2692			15066													
		STD	0200	1346	3578	2692	0011968	0267	15067													
		STD	0250	1339	3578	2694	0011962	0326	15072													
127		OBS	0294	1328	35765	2696			15076													
		STD	0300	1326	3578	2696	0011911	0366	15077													
127		OBS	0390	1291	35712	2698			15079													
		STD	0400	1282	3570	2699	0011857	0505	15077													
127		OBS	T0487	1169	35512	2706			15050													
		STD	0500	1139	3547	2709	0011064	0620	15042													
127		OBS	0580	0972	35242	2721			14992													
		STD	0600	0934	3521	2725	0009578	0723	14981													
		STD	0700	0770	3510	2742	0007944	0810	14934													
127		OBS	T0769	0660	35051	2751			14910													
		STD	0800	0652	3505	2754	0006721	0884	14904													
		STD	0900	0572	3503	2763	0005883	0947	14888													
127		OBS	0970	0527	35019	2768			14882													
		STD	1000	0513	3501	2769	0005355	1003	14881													
		STD	1100	0474	3499	2772	0005099	1055	14861													
		STD	1200	0443	3497	2774	0004945	1105	14865													
127		OBS	T1231	0435	34969	2775			14887													
		STD	1300	0420	3497	2776	0004780	1154	14892													
		STD	1400	0406	3496	2777	0004743	1202	14903													
		STD	1500	0401	3495	2777	0004812	1249	14918													
127		OBS	T1502	0401	34952	2777			14918													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARSden SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGR	PER		SEA	TYPE		AMT
311082		OW	44040N	041000W		14	41	06	01	17	1967	D08	005	4755	15	34	2	4		X2	6	8	0005
						WATER		WIND		BARO-METER		AIR TEMP. °C											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER	DRY BULB	WET BULB	REL. HUM.	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
									05	506	163	144	122	7	14								

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	σ <sub>c</sub>
		STD	0000	1530	3585	2657	0014705	0000	15094								
179		OBS	0000	1530	35846	2657			15094								
		STD	0010	1524	3585	2659	0014579	0015	15094								
		STD	0020	1521	3585	2660	0014546	0029	15094								
179		OBS	0023	1520	35855	2660			15095								
		STD	0030	1521	3586	2660	0014525	0044	15096								
179		OBS	0047	1522	35860	2660			15099								
		STD	0050	1523	3588	2662	0014452	0073	15100								
		STD	0075	1527	3603	2672	0013527	0108	15107								
179		OBS	0094	1530	36064	2674			15112								
		STD	0100	1514	3603	2675	0013332	0141	15107								
		STD	0125	1458	3592	2679	0013031	0174	15092								
179		OBS	0143	1426	35667	2682			15084								
		STD	0150	1417	3585	2682	0012770	0206	15082								
179		OBS	0193	1374	35799	2688			15075								
		STD	0200	1371	3580	2688	0012352	0269	15075								
		STD	0250	1352	3580	2692	0012097	0330	15077								
179		OBS	0286	1339	35803	2695			15079								
		STD	0300	1339	3580	2695	0012006	0391	15081								
179		OBS	0380	1312	35764	2698			15085								
		STD	0400	1298	3573	2698	0011953	0510	15063								
179		OBS	T0476	1214	35579	2703			15065								
		STD	0500	1169	3551	2706	0011331	0627	15052								
179		OBS	0572	1036	35321	2715			15015								
		STD	0600	0973	3526	2722	0009972	0733	14996								
		STD	0700	0783	3510	2740	0006144	0823	14939								
179		OBS	T0757	0699	35039	2747			14915								
		STD	0800	0659	3503	2752	0006968	0899	14907								
		STD	0900	0578	3502	2762	0006039	0964	14891								
179		OBS	0954	0542	35009	2765			14885								
		STD	1000	0519	3500	2767	0005509	1021	14883								
		STD	1100	0477	3499	2772	0005138	1075	14883								
		STD	1200	0447	3498	2774	0004924	1125	14867								
179		OBS	T1204	0440	34978	2774			14887								
		STD	1300	0436	3498	2775	0004884	1174	14899								
		STD	1400	0426	3498	2776	0004849	1223	14912								
179		OBS	1462	0420	34983	2777			14920								



TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSden SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NOCC STATION NUMBER			
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.				HGT PER	SEA	
311	082	OW	44050N	040560W	149	40	06	02	122	1967	000	000	4755	10	2	3	X2	6	8	0000		
						WATER		WIND		BARO-METER		AIR TEMP. °C										
						COLOR	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									30	520	166	117	111	7	14							
MESSNGR. TIME HR. 1/10	CASST. NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> ?	Σ Δ D DYN. V. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>2</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SIO <sub>4</sub> -S μg - dl/l	pH	S. C.C.					
		STD	0000	1511	3582	2660	0014470	0000	15088													
122		OBS	0000	1511	35823	2660			15088													
		STD	0010	1509	3583	2661	0014440	0014	15086													
		STD	0020	1507	3583	2661	0014412	0029	15089													
122		OBS	0023	1506	35828	2661			15090													
		STD	0030	1506	3583	2662	0014410	0043	15091													
		STD	0050	1507	3583	2661	0014488	0072	15095													
122		OBS	0051	1507	35836	2662			15095													
		STD	0075	1504	3590	2668	0013976	0106	15099													
		STD	0100	1486	3597	2677	0013170	0142	15096													
122		OBS	0103	1483	35979	2678			15097													
		STD	0125	1441	3590	2681	0012825	0174	15087													
		STD	0150	1403	3583	2684	0012630	0406	15078													
122		OBS	0155	1396	35822	2685			15076													
		STD	0200	1354	3579	2691	0012077	0468	15069													
122		OBS	T0208	1348	35782	2692			15069													
		STD	0250	1342	3578	2693	0012021	0328	15073													
		STD	0300	1233	3579	2695	0011974	0388	15079													
122		OBS	0314	1330	35786	2696			15080													
		STD	0400	1320	3577	2697	0012099	0508	15091													
122		OBS	0422	1302	35740	2698			15086													
		STD	0500	1167	3549	2705	0011439	0626	15052													
122		OBS	T0532	1112	35404	2705			15036													
		STD	0600	0994	3526	2718	0010233	0734	15004													
122		OBS	0637	0923	35201	2724			14987													
		STD	0700	0827	3514	2736	0008540	0823	14957													
		STD	0800	0687	3506	2750	0007150	0907	14916													
122		OBS	T0851	0629	35031	2756			14903													
		STD	0900	0614	3503	2756	0006481	0975	14905													
		STD	1000	0583	3502	2761	0006236	1039	14909													
		STD	1100	0552	3501	2764	0005981	1100	14913													
		STD	1200	0521	3501	2768	0005721	1158	14917													
122		OBS	1269	0499	35001	2770			14920													
		STD	1300	0470	3496	2772	0005330	1213	14913													
122		OBS	T1346	0435	34964	2774			14906													
		STD	1400	0429	3496	2774	0005040	1265	14913													
		STD	1500	0418	3495	2775	0005060	1316	14925													
122		OBS	T1618	0405	34937	2775			14939													

TABLE VII.—Continued

REFERENCE CITY CODE	SHIP ID. NO. CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. NO.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311082	OW	44000N	041000W		149	41	06	03	180	1967	008	007	4755	15	06	2	2		X2	7	8		0007
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
								05	508	247	128	111	7	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\frac{\Delta \sigma_{\theta}}{\Delta T}$ , M. K 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	§ C						
		STD	0000	1595	3595	2651	0015324	0000	15115														
180		OBS	0000	1595	3595.3	2651	0015324	0000	15115														
		STD	0010	1593	3595	2651	0015313	0015	15116														
		STD	0020	1589	3595	2652	0015250	0031	15117														
180		OBS	0025	1602.0	3595.4	2649.0																	
		STD	0030	1584	3597	2655	0015056	0046	15117														
		STD	0050	1570	3601	2661	0014524	0075	15116														
180		OBS	0054	1566	3601.5	2662			15116														
		STD	0075	1538	3599	2667	0014036	0111	15110														
		STD	0100	1504	3597	2673	0013579	0146	15103														
180		OBS	0107	1494	3596.0	2674			15101														
		STD	0125	1468	3597	2680	0012897	0179	15096														
		STD	0150	1434	3598	2689	0012185	0210	15089														
180		OBS	0160	1421	3598.2	2692			15087														
		STD	0200	1373	3583	2690	0012166	0271	15076														
180		OBS	T0214	1360	3579.3	2690			15074														
		STD	0250	1350	3579	2692	0012138	0332	15076														
		STD	0300	1334	3578	2695	0012030	0392	15079														
180		OBS	0316	1328	3576.9	2695			15079														
		STD	0400	1300	3573	2698	0011993	0512	15083														
180		OBS	0417	1283	3569.9	2699			15080														
		STD	0500	1135	3546	2709	0011063	0627	15040														
180		OBS	T0515	1107	3541.7	2711			15032														
		STD	0600	0937	3519	2723	0009775	0732	14982														
180		OBS	0612	0915	3516.2	2724			14975														
		STD	0700	0780	3511	2741	0008017	0821	14938														
		STD	0800	0651	3505	2755	0006677	0894	14904														
180		OBS	T0803	0647	3505.2	2755			14903														
		STD	0900	0540	3500	2765	0005677	0956	14875														
		STD	1000	0465	3495	2769	0005206	1010	14860														
180		OBS	1004	0463	3494.3	2769			14860														
		STD	1100	0460	3498	2773	0004989	1061	14875														
		STD	1200	0453	3500	2775	0004855	1110	14890														
180		OBS	T1268	0447	3500.6	2776			14899														
		STD	1300	0444	3500	2776	0004824	1159	14903														
		STD	1400	0431	3499	2777	0004838	1207	14914														
		STD	1500	0414	3498	2777	0004802	1255	14923														
180		OBS	1524	0410	3497.4	2778			14926														

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IC. NO.					10'	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT		
311082		OW	44040N	041070W		149	41	06	04	126	1967	008	008	4755	15	30	1	2		X1	6	3	0008			
		WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB		WET BULB														
						33		510		281		144		127		7		14								
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma_t$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S/C/C									
		STD	0000	1552	3587	2654	0015021	0000	15101																	
126		OBS	0000	1552	35867	2654			15101																	
		STD	0010	1551	3587	2654	0015031	0015	15102																	
		STD	0020	1550	3587	2655	0015041	0030	15104																	
126		OBS	0024	1549	35867	2655			15104																	
		STD	0030	1548	3588	2656	0014937	0045	15105																	
		STD	0050	1545	3589	2657	0014864	0075	15107																	
126		OBS	0051	1545	35892	2658			15107																	
		STD	0075	1505	3587	2665	0014231	0111	15088																	
		STD	0100	1465	3584	2671	0013686	0146	15090																	
126		OBS	0102	1462	35839	2672			15089																	
		STD	0125	1421	3581	2679	0013070	0180	15079																	
		STD	0150	1391	3580	2684	0012605	0212	15073																	
126		OBS	0152	1389	35797	2684			15073																	
		STD	0200	1374	3582	2689	0012259	0274	15076																	
126		OBS	T0204	1373	35824	2690			15077																	
		STD	0250	1351	3580	2693	0012055	0335	15077																	
		STD	0300	1330	3578	2696	0011929	0395	15078																	
126		OBS	0302	1329	35782	2696			15078																	
		STD	0400	1295	3572	2698	0011938	0514	15082																	
126		OBS	0400	1295	35724	2698			15082																	
126		OBS	T0499	1132	35443	2708			15039																	
		STD	0500	1130	3544	2708	0011117	0629	15038																	
126		OBS	0596	0960	35238	2722			14990																	
		STD	0600	0952	3523	2723	0009735	0733	14988																	
		STD	0700	0770	3511	2743	0007871	0821	14934																	
126		OBS	T0793	0643	35041	2755			14899																	
		STD	0800	0637	3504	2756	0006580	0894	14898																	
		STD	0900	0567	3503	2764	0005851	0956	14886																	
		STD	1000	0510	3501	2769	0005308	1012	14880																	
126		OBS	1005	0508	35010	2770			14880																	
		STD	1100	0478	3501	2773	0005005	1063	14883																	
		STD	1200	0450	3500	2775	0004816	1112	14888																	
126		OBS	T1270	0433	34989	2776			14893																	
		STD	1400	0426	3498	2776	0004749	1160	14895																	
		STD	1400	0406	3497	2778	0004655	1207	14903																	
		STD	1500	0389	3494	2777	0004742	1254	14912																	
126		OBS	1544	0383	34928	2777			14917																	

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLER	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CITY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT
311	082	OW	44000N	041000W	149	41	05	174	1967	008	009	4846	45	29	1		X2	4	R	0009			
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS	
						29		503		271		167		144		7		21					
MESSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	S D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-N µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S C C						
		STD	0000	1647	3608	2648	0015582	0000	15133														
	127	OBS	0000	1647	36075	2648			15133														
		STD	0010	1622	3602	2650	0015461	0016	15126														
		STD	0020	1602	3598	2651	0015345	0031	15121														
	127	OBS	0024	1596	35972	2652			15120														
		STD	0030	1593	3597	2652	0015289	0046	15120														
		STD	0050	1582	3594	2653	0015273	0077	15119														
	127	OBS	0053	1580	35940	2653			15119														
		STD	0075	1565	3600	2661	0014568	0114	15119														
		STD	0100	1551	3604	2668	0014052	0150	15119														
	127	OBS	0104	1549	36050	2669			15119														
		STD	0125	1542	3606	2671	0013776	0185	15121														
		STD	0150	1534	3608	2674	0013580	0219	15122														
	127	OBS	0155	1532	36078	2675			15123														
		STD	0200	1409	3583	2683	0012898	0285	15088														
	127	OBS	T0208	1393	35802	2684			15084														
		STD	0250	1369	3581	2689	0012410	0348	15083														
		STD	0300	1342	3581	2695	0011971	0409	15082														
	127	OBS	0304	1340	35810	2696			15082														
	127	OBS	0398	1291	35716	2698			15080														
		STD	0400	1287	3571	2699	0011882	0929	15079														
	127	OBS	T0495	1112	35428	2711			15031														
		STD	0500	1102	3541	2711	0010825	0642	15028														
	127	OBS	0587	0936	35205	2724			14980														
		STD	0600	0912	3519	2727	0009359	0743	14973														
		STD	0700	0748	3509	2744	0007683	0828	14926														
	127	OBS	T0775	0652	35043	2754			14900														
		STD	0800	0631	3504	2756	0006495	0899	14896														
		STD	0900	0556	3503	2765	0005665	0960	14882														
	127	OBS	0970	0514	35015	2769			14876														
		STD	1000	0501	3500	2770	0005270	1015	14876														
		STD	1100	0464	3498	2772	0005042	1066	14877														
		STD	1200	0435	3496	2774	0004914	1116	14882														
	127	OBS	T1221	0430	34955	2774			14883														
		STD	1300	0420	3495	2775	0004861	1165	14892														
		STD	1400	0408	3495	2776	0004798	1213	14904														
	127	OBS	1481	0399	34953	2777			14914														
		STD	1500	0397	3495	2777	0004774	1261	14916														
		STD	1750	0376	3494	2778	0004782	1380	14949														
	174	OBS	T1929	0364	34936	2779			14974														
		STD	2000	0362	3494	2780	0004794	1500	14986														
	174	OBS	T2442	0342	34954	2783			15053														
		STD	2500	0338	3495	2783	0004755	1739	15061														
	174	OBS	2923	0306	34939	2785			15120														
		STD	3000	0300	3494	2786	0004613	1973	15131														
	174	OBS	3422	0271	34925	2787			15192														
	174	OBS	T3921	0243	34915	2789			15268														
		STD	4000	0243	3492	2789	0004398	2424	15282														
	174	OBS	4421	0233	34915	2790			15352														
	174	OBS	4520	0228	34911	2790			15367														

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SUNEL INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
311082		OW	44000N	041290W		149	41	06	06	126	1967	D08	010	4663	15	28	0			X2	6	8		0010				
						WATER		WIND		BARO-		AIR TEMP. °C																
						COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	VIS.	NO.	SPECIAL													
						CODE	(m)		OR FORCE	Imbal	BULB	BULB	CODE	OBS.	OBSERVATIONS													
								12	505	240	161	144	7	14														
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-t	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C											
		STD	0000	1548	3586	2655	0014957	0000	15100																			
126		OBS	0000	1548	35864	2655			15100																			
		STD	0010	1541	3585	2655	0014941	0015	15099																			
		STD	0020	1535	3585	2657	0014844	0030	15099																			
126		OBS	0025	1533	35847	2657			15099																			
		STD	0030	1533	3585	2657	0014832	0045	15100																			
		STD	0050	1530	3586	2659	0014758	0074	15102																			
126		OBS	0050	1530	35860	2659			15102																			
		STD	0075	1519	3594	2667	0014017	0110	15104																			
		STD	0100	1498	3596	2673	0013496	0145	15101																			
126		OBS	0100	1498	35961	2673			15101																			
		STD	0125	1461	3590	2677	0013240	0178	15093																			
		STD	0150	1428	3585	2680	0012996	0211	15086																			
126		OBS	0152	1425	35843	2680			15085																			
		STD	0200	1371	3580	2688	0012345	0274	15075																			
126		OBS	T0205	1367	35792	2689			15074																			
		STD	0250	1351	3579	2692	0012158	0335	15076																			
		STD	0300	1331	3579	2696	0011919	0396	15078																			
126		OBS	0304	1329	35787	2696			15078																			
		STD	0400	1284	3570	2699	0011874	0515	15078																			
126		OBS	0402	1282	35701	2699			15077																			
		STD	0500	1143	3547	2708	0011138	0630	15043																			
126		OBS	0504	1136	35461	2709			15041																			
		STD	0600	0918	3520	2726	0009385	0732	14975																			
126		OBS	0604	0910	35191	2727			14973																			
		STD	0700	0767	3512	2744	0007752	0818	14933																			
126		OBS	T0796	0646	35063	2756			14901																			
		STD	0800	0641	3506	2757	0006482	0889	14900																			
		STD	0900	0533	3500	2766	0005554	0949	14872																			
		STD	1000	0462	3495	2770	0005167	1003	14859																			
126		OBS	1003	0460	34943	2770			14859																			
		STD	1100	0455	3497	2772	0004998	1054	14873																			
		STD	1200	0448	3499	2775	0004863	1103	14887																			
126		OBS	T1255	0444	34995	2776			14895																			
		STD	1300	0440	3499	2776	0004830	1152	14901																			
		STD	1400	0431	3499	2777	0004831	1200	14914																			
		STD	1500	0420	3499	2778	0004802	1248	14926																			
126		OBS	T1514	0418	34987	2778			14928																			

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIR. DIST.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	STATION NUMBER					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA		TYPE	AMT.	
31	082	OW	44040N	040580W		149	40	06	07	128	1967	008	011	4755	16	00	0	0		X1	8	1	0011
						WATER		WIND		BARO-METER		AIR TEMP. °C											
						COLOR CODE		DIR.		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
								30		505		178		150		7		14					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2167	$\frac{\Delta \sigma}{\sigma}$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	SEC						
		STD	0000	1679	3601	2636	0016751	0000	15141														
128		OBS	0000	1679	36013	2636			15141														
		STD	0010	1668	3600	2638	0016624	0017	15140														
		STD	0020	1651	3599	2641	0016363	0033	15136														
128		OBS	0025	1640	35983	2643			15133														
		STD	0030	1621	3599	2648	0015730	0049	15129														
		STD	0050	1560	3601	2664	0014279	0079	15113														
128		OBS	0055	1548	36020	2667			15111														
		STD	0075	1532	3601	2670	0013755	0114	15109														
		STD	0100	1509	3601	2675	0013393	0148	15106														
128		OBS	0109	1499	36004	2677			15104														
		STD	0125	1476	3596	2678	0013116	0181	15099														
		STD	0150	1444	3590	2681	0012961	0214	15092														
128		OBS	0164	1427	35875	2682			15088														
		STD	0200	1389	3584	2688	0012417	0277	15081														
128		OBS	T0224	1369	35824	2691			15079														
		STD	0250	1365	3581	2691	0012271	0339	15081														
		STD	0300	1342	3579	2694	0012110	0400	15082														
128		OBS	0326	1323	35780	2697			15080														
		STD	0400	1235	3562	2702	0011528	0518	15060														
128		OBS	0433	1190	35543	2705			15049														
		STD	0500	1087	3538	2711	0010773	0630	15022														
128		OBS	T0544	1015	35293	2717			15002														
		STD	0600	0909	3519	2727	0009310	0730	14971														
128		OBS	0644	0835	35130	2734			14950														
		STD	0700	0759	3510	2743	0007776	0816	14930														
		STD	0800	0645	3506	2756	0006547	0887	14901														
128		OBS	T0849	0598	35042	2761			14891														
		STD	0900	0559	3502	2764	0005779	0949	14883														
		STD	1000	0497	3499	2769	0005290	1004	14874														
128		OBS	1064	0467	34981	2772			14872														
		STD	1100	0460	3498	2773	0004982	1056	14875														
		STD	1200	0443	3498	2775	0004864	1105	14885														
		STD	1300	0427	3498	2776	0004762	1153	14895														
128		OBS	T1335	0422	34980	2777			14899														
		STD	1400	0413	3498	2778	0004673	1200	14906														
		STD	1500	0400	3497	2778	0004667	1247	14917														
128		OBS	1607	0387	34952	2778			14930														

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MOBIL NO.	MARSOEH SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR	1/10		CRUISE HO.	STATION NUMBER			DR	HGT	PER	SEA		TYPE	AMT	
31	1082	OW	43560N	040530W	149	30	06	08	123	1967	008	012	4773	16	00	0	0		x2	6	8	0012		
						WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	UMBAL	DRY BULB	WET BULB	VIS. CODE											
						32	S10	230	179	167	4	14												
MESSNGR TIME HR 1/10	CAST HO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ OYH. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>2</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	SIC							
		STD	0000	1692	3601	2632	0017096	0000	15145															
123		OBS	0000	1692	36006	2632			15145															
		STD	0010	1667	3597	2635	0016827	0017	15139															
		STD	0020	1639	3595	2640	0016380	0034	15132															
123		OBS	0025	1623	35938	2643			15128															
		STD	0030	1599	3593	2648	0015676	0050	15121															
		STD	0050	1522	3592	2665	0014149	0079	15100															
123		OBS	0055	1507	35917	2668			15096															
		STD	0075	1497	3592	2670	0013726	0114	15097															
		STD	0100	1476	3592	2675	0013368	0148	15094															
123		OBS	0109	1466	35915	2677			15092															
		STD	0125	1432	3585	2679	0013004	0181	15083															
		STD	0150	1391	3579	2683	0012678	0213	15073															
123		OBS	0164	1375	35766	2685			15070															
		STD	0200	1364	3580	2690	0012204	0275	15073															
123		OBS	T0220	1355	35801	2692			15073															
		STD	0250	1339	3578	2693	0011991	0336	15072															
		STD	0300	1302	3573	2697	0011761	0395	15068															
123		OBS	0327	1278	35695	2699			15064															
		STD	0400	1195	3556	2705	0011205	0510	15046															
123		OBS	0434	1148	35487	2708			15034															
		STD	0500	1031	3533	2717	0010146	0617	15001															
123		OBS	T0545	0953	35244	2724			14979															
		STD	0600	0857	3516	2733	0008686	0711	14952															
123		OBS	0644	0788	35108	2740			14932															
		STD	0700	0708	3508	2749	0007160	0790	14910															
		STD	0800	0594	3503	2761	0006053	0856	14881															
123		OBS	T0846	0554	35019	2765			14872															
		STD	0900	0554	3502	2765	0005689	0915	14881															
		STD	1000	0542	3503	2767	0005600	0971	14893															
		STD	1100	0515	3504	2771	0005294	1026	14899															
123		OBS	1160	0492	35042	2774			14899															
		STD	1200	0464	3501	2775	0004927	1077	14894															
		STD	1300	0410	3495	2776	0004761	1125	14888															
123		OBS	T1326	0400	34942	2776			14888															
		STD	1400	0394	3494	2777	0004726	1173	14898															
		STD	1500	0386	3493	2777	0004744	1220	14911															
123		OBS	1595	0378	34930	2777			14924															

TABLE VII.—Continued

REFERENCE CENTR. CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLER	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER																			
						10"	1"	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA																						
311082	0W		44090N	041050W	149	41	06	09	124	1967	008	013	4663	17	25	0	0	0	x1	6	6	0013																			
																						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C		VIS. COD.	NO. OBS. DEPTH	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB			25	506	176	178	151	7	14																									
MESSING TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C C																								
		STD	0000	1712	37.01	2628	0017544	0000	15151																																
124		OBS	0000	1712	36007	2629			15151																																
		STD	0010	1681	3600	2634	0016924	0017	15144																																
		STD	0020	1653	3600	2641	0016328	0034	15137																																
124		OBS	0025	1640	35996	2644			15134																																
		STD	0030	1627	3600	2647	0015819	0050	15130																																
		STD	0050	1583	3599	2657	0014945	0081	15120																																
124		OBS	0055	1574	35990	2659			15118																																
		STD	0075	1558	3601	2663	0014372	0117	15117																																
		STD	0100	1534	3603	2670	0013781	0153	15114																																
124		OBS	0110	1522	26035	2674			15112																																
		STD	0125	1498	3597	2674	0013506	0187	15106																																
		STD	0150	1462	3588	2675	0013481	0220	15097																																
124		OBS	0165	1442	35846	2677			15093																																
		STD	0200	1400	3583	2685	0012714	0286	15085																																
124		OBS	T0221	1379	35821	2688			15081																																
		STD	0250	1367	3582	2691	0012260	0348	15082																																
		STD	0300	1336	3578	2694	0012070	0409	15080																																
124		OBS	0330	1312	35762	2697			15076																																
		STD	0400	1240	3562	2701	0011624	0528	15062																																
124		OBS	0440	1188	35544	2705			15050																																
		STD	0500	1081	3539	2713	0010592	0639	15020																																
124		OBS	T0558	0985	35273	2721			14994																																
		STD	0600	0920	3522	2728	0009272	0738	14976																																
124		OBS	0660	0834	35156	2736			14953																																
		STD	0700	0777	3513	2743	0007832	0824	14937																																
		STD	0800	0655	3507	2756	0006617	0896	14906																																
124		OBS	T0874	0582	35032	2762			14888																																
		STD	0900	0564	3502	2764	0005847	0958	14885																																
		STD	1000	0502	3499	2769	0005356	1014	14876																																
		STD	1100	0455	3496	2772	0005057	1068	14873																																
124		OBS	1100	0455	3496.2	2772			14873																																
		STD	1200	0432	3496	2774	0004676	1116	14880																																
		STD	1300	0413	3495	2775	0004800	1164	14889																																
124		OBS	T1376	0400	34944	2776			14896																																
		STD	1400	0396	3494	2776	0004745	1212	14899																																
		STD	1500	0383	3494	2778	0004663	1259	14910																																
124		OBS	1655	0369	34924	2778			14930																																



TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
311	082	04	44000N	041000W	149	41	06	10	122	1967	008	014	4755	17	02	4	b	x1	8	6	0014
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
				02	S19	230	14.4	111	7	14											
MESSAGE TIME HR. /10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. K 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C.C.				
		STD	0000	1671	3546	2634	0016435	0000	15138												
122		OBS	0000	1671	3546	2634	0016435	0000	15138												
		STD	0010	1661	3596	2636	0016775	0017	15137												
		STD	0020	1652	3595	2638	0016663	0034	15136												
122		OBS	0029	1643	3594.2	2639			15134												
		STD	0030	1638	3594	2640	0016463	0050	15133												
		STD	0050	1542	3592	2660	0014577	0081	15107												
122		OBS	0057	1515	3590.9	2666			15099												
		STD	0075	1478	3584	2672	0013517	0116	15090												
		STD	0100	1436	3587	2680	0012866	0149	15081												
122		OBS	0114	1416	3585.5	2683			15076												
		STD	0125	1406	3585	2685	0012472	0181	15075												
		STD	0150	1385	3582	2687	0012338	0212	15072												
122		OBS	0170	1368	3580.2	2689			15069												
		STD	0200	1343	3576	2691	0012076	0273	15065												
122		OBS	0228	1323	3573.1	2693			15063												
		STD	0250	1316	3573	2694	0011919	0333	15064												
		STD	0300	1298	3572	2697	0011800	0392	15066												
122		OBS	0342	1284	3570.6	2699			15068												
		STD	0400	1167	3551	2707	0011046	0507	15035												
122		OBS	0456	1066	3536.0	2714			15007												
		STD	0500	1001	3529	2720	0009918	0611	14990												
122		OBS	T0573	0889	3517.8	2729			14960												
		STD	0600	0846	3514	2733	0008657	0704	14947												
122		OBS	0691	0714	3503.6	2745			14910												
		STD	0700	0705	3504	2746	0007447	0785	14908												
		STD	0800	0619	3502	2757	0006444	0854	14891												
		STD	0900	0550	3501	2765	0005709	0915	14879												
122		OBS	0922	0537	3501.1	2766			14878												
		STD	1000	0504	3499	2768	0005383	0970	14877												
		STD	1100	0469	3498	2772	0005107	1023	14879												
122		OBS	1154	0453	3496.8	2772			14881												
		STD	1200	0445	3496	2773	0005044	1074	14886												
		STD	1300	0429	3495	2774	0005008	1124	14896												
		STD	1400	0413	3494	2775	0004966	1174	14906												
122		OBS	T1439	0407	3493.5	2775			14910												
		STD	1500	0398	3493	2775	0004933	1223	14916												
122		OBS	T1699	0369	3492.0	2778			14937												

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
CRUISE CODE	IO. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT				PER
311	082	OW	44000N	041000W	149	41	06	11	122	1967	D08	015	4755	14	20	2	5	X2	6	8	0015
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	VIS. CODE													
				20	S22	210	150	128	7	14											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> ?	Σ Δ ρ DYN. M. x 10 <sup>2</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SIO <sub>4</sub> -Si μg - at/l	pH	S C C				
		STD	0000	1602	3606	2658	0014690	0000	15119												
122		OBS	0000	1602	36061	2658			15119												
		STD	0010	1602	3606	2658	0014713	0015	15120												
		STD	0020	1601	3606	2658	0014727	0029	15122												
122		OBS	0023	1601	36062	2658			15122												
		STD	0030	1581	3605	2662	0014408	0044	15117												
122		OBS	0046	1543	36018	2668			15107												
		STD	0050	1537	3601	2668	0013813	0072	15106												
		STD	0075	1502	3596	2672	0013511	0106	15099												
122		OBS	0086	1490	35940	2674			15096												
		STD	0100	1482	3593	2675	0013385	0140	15096												
		STD	0125	1462	3591	2677	0013188	0173	15094												
122		OBS	0129	1458	35904	2678			15093												
		STD	0150	1428	3586	2681	0012923	0206	15086												
122		OBS	0172	1401	35823	2684			15080												
		STD	0200	1380	3581	2687	0012453	0269	15078												
		STD	0250	1352	3579	2692	0012178	0331	15077												
122		OBS	0256	1349	35786	2692			15077												
		STD	0300	1340	3578	2693	0012150	0392	15081												
122		OBS	0342	1329	35777	2695			15084												
		STD	0400	1316	3577	2697	0012020	0513	15089												
122		OBS	T0432	1296	35738	2699			15087												
		STD	0500	1215	3558	2703	0011692	0631	15069												
122		OBS	0530	1175	35508	2705			15059												
		STD	0600	1058	3534	2713	0010774	0743	15028												
		STD	0700	0900	3517	2727	0009505	0845	14984												
122		OBS	T0731	0853	35131	2732			14971												
		STD	0800	0741	3511	2747	0007596	0930	14940												
122		OBS	0893	0623	35075	2760			14908												
		STD	0900	0618	3507	2761	0006232	0999	14907												
		STD	1000	0552	3504	2767	0005663	1059	14897												
		STD	1100	0499	3501	2771	0005284	1114	14892												
122		OBS	T1127	0487	35008	2772			14891												
		STD	1200	0458	3499	2774	0004995	1165	14891												
		STD	1300	0430	3497	2775	0004874	1214	14896												
		STD	1400	0414	3496	2776	0004833	1263	14906												
122		OBS	T1421	0412	34959	2776			14909												

TABLE VII.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARSDEN SQUARE 10"	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLER	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311	082	OW	44100N	041425W	149	41	06	12	122	1967	008	016	4663	15	26	2	2	X1	4	7	0016
					WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE													
					26	S14	156	161	144	8	14										
MESSNGR TIME HR. 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ OBS. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	S C C				
		STD	0000	1662	3601	2640	0016362	0000	15136												
122		OBS	0000	1662	36014	2640			15136												
		STD	0010	1661	3601	2640	0016375	0016	15138												
		STD	0020	1660	3601	2640	0016397	0033	15139												
122		OBS	0023	1660	36013	2640			15140												
		STD	0030	1636	3602	2647	0017036	0049	15133												
122		OBS	0049	1561	36024	2660			15120												
		STD	0050	1579	3602	2660	0014647	0079	15119												
		STD	0075	1534	3599	2666	0013973	0115	15109												
122		OBS	0098	1495	35952	2673			15100												
		STD	0100	1491	3595	2674	0013428	0149	15099												
		STD	0125	1448	3589	2679	0013043	0182	15089												
122		OBS	0147	1418	35856	2683			15082												
		STD	0150	1415	3585	2683	0012729	0215	15082												
122		OBS	0196	1378	35820	2688			15077												
		STD	0200	1376	3582	2689	0012300	0277	15077												
		STD	0250	1348	3579	2692	0012098	0338	15075												
122		OBS	0293	1320	35758	2696			15073												
		STD	0300	1317	3575	2696	0011911	0398	15073												
122		OBS	0391	1239	35628	2702			15060												
		STD	0400	1225	3560	2702	0011482	0515	15056												
122		OBS	T0490	1083	35388	2713			15019												
		STD	0500	1067	3537	2714	0010488	0625	15015												
122		OBS	0586	0928	35199	2725			14976												
		STD	0600	0899	3518	2728	0009219	0724	14968												
		STD	0700	0720	3507	2747	0007411	0807	14914												
122		OBS	T0778	0618	35012	2756			14886												
		STD	0800	0604	3501	2758	0006338	0876	14884												
		STD	0900	0548	3500	2764	0005785	0936	14878												
122		OBS	0981	0510	34990	2768			14876												
		STD	1000	0504	3499	2769	0005368	0992	14877												
		STD	1100	0472	3501	2773	0004955	1044	14881												
		STD	1200	0446	3502	2777	0004624	1091	14887												
122		OBS	T1248	0435	35025	2779			14890												
		STD	1300	0424	3502	2780	0004429	1137	14895												
		STD	1400	0408	3500	2780	0004461	1181	14904												
		STD	1500	0396	3497	2779	0004614	1226	14916												
122		OBS	T1519	0394	34960	2778			14918												

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYP AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA			
31108	UW	4400 N	04100 W	149	41	06	13	125	1967	006	017	4755	15	25	0	2	2	5	18		0017	
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE		SPEED OR FORCE		METER (mba)		DRY BULB		WET BULB		VIS. CODE										
		18		S03		179		156		128		7		14								
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma_{\theta}$ DIV. $10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S/C					
		STD	0000	1649	3579	2626	0017725	0000	15130													
	125	OBS	0000	1649	35787	2626			15130													
		STD	0010	1649	3579	2626	0017750	0018	15131													
		STD	0020	1649	3579	2626	0017768	0035	15133													
	125	OBS	0024	1649	35790	2626			15134													
		STD	0030	1650	3584	2629	0017459	0053	15136													
	125	OBS	0048	1653	35969	2639			15141													
		STD	0050	1649	3597	2640	0016555	0087	15140													
		STD	0075	1597	3599	2653	0015338	0127	15129													
	125	OBS	0097	1559	35998	2663			15121													
		STD	0100	1555	3600	2663	0014459	0164	15120													
		STD	0125	1524	3598	2669	0013994	0200	15114													
	125	OBS	0147	1495	35964	2674			15108													
		STD	0150	1490	3596	2675	0013486	0234	15107													
	125	OBS	0196	1426	35884	2683			15093													
		STD	0200	1424	3588	2683	0012841	0300	15093													
		STD	0250	1387	3585	2689	0012447	0363	15089													
	125	OBS	0295	1344	35787	2693			15082													
		STD	0300	1340	3578	2693	0012150	0425	15081													
	125	OBS	0391	1221	35584	2702			15053													
		STD	0400	1199	3555	2704	0011353	0542	15047													
	125	OBS	T0478	1032	35322	2717			14998													
		STD	0500	0996	3528	2720	0009906	0648	14988													
	125	OBS	0578	0877	35176	2731			14956													
		STD	0600	0847	3517	2736	0008453	0740	14948													
		STD	0700	0724	3512	2750	0007103	0818	14917													
	125	OBS	T0768	0652	35095	2758			14899													
		STD	0800	0621	3508	2761	0006050	0884	14892													
		STD	0900	0539	3503	2767	0005435	0941	14875													
	125	OBS	0975	0493	35000	2770			14868													
		STD	1000	0488	3500	2771	0005106	0994	14871													
		STD	1100	0467	3500	2773	0004963	1044	14879													
		STD	1200	0447	3499	2775	0004835	1093	14887													
	125	OBS	T1234	0440	34991	2776			14890													
		STD	1300	0427	3498	2776	0004762	1141	14895													
		STD	1400	0409	3496	2777	0004768	1189	14904													
	125	OBS	1474	0396	34939	2776			14911													

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARSden SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER						
CITY CODE	ID. NO.					10'	'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT			
31	082	OW	44100N	041050W	149	41	06	14	122	1967	008	018	4663	16	31	3	2		X1	8	5			0018		

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT		
411002		0W	44000N	041000W	149	41	06	16	122	1967	008	019	4663	16	30	2	4		x1	8	3		0019
						WATER		WIND		BARO-METER		AIR TEMP. °C											
						COLOR CODE		DIR.		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
								30		510		271		161		122		8		14			
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	S <sub>0</sub> Δ C DTN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	CO <sub>2</sub>						
	122	STD	0000	1664	3599	2638	0016560	0000	15137														
		OBS	0000	1664	35993	2638			15137														
		STD	0010	1663	3598	2638	0016629	0017	15138														
		STD	0020	1661	3597	2637	0016705	0033	15139														
	122	OBS	0023	1661																			
		STD	0030	1644	3597	2640	0016415	0050	15135														
		STD	0050	1602	3595	2649	0015689	0082	15125														
	122	OBS	0050	1602																			
		STD	0075	1582	3592	2652	0015498	0121	15123														
		STD	0100	1553	3590	2656	0015122	0159	15118														
	122	OBS	0101	1552																			
		STD	0125	1512	3588	2664	0014489	0196	15109														
		STD	0150	1472	3585	2671	0013895	0232	15100														
	122	OBS	0152	1469																			
		STD	0200	1396	3561	2683	0012855	0299	15084														
	122	OBS	0202	1395																			
		STD	0250	1358	3576	2688	0012532	0362	15078														
		STD	0300	1318	3571	2692	0012215	0424	15073														
	122	OBS	0303	1316	35760	26970																	
		STD	0400	1235	3562	2702	0011549	0543	15060														
	122	OBS	0405	1228	35612	2703			15058														
		STD	0500	1055	3533	2713	0010568	0653	15010														
	122	OBS	T0510	1036	35304	2715			15005														
		STD	0600	0864	3515	2731	0008871	0750	14954														
	122	OBS	0612	0844	35130	2733			14948														
		STD	0700	0716	3508	2748	0007278	0831	14913														
		STD	0800	0604	3503	2759	0006191	0999	14885														
	122	OBS	T0823	0583	35026	2762			14880														
		STD	0900	0539	3501	2766	0005560	0957	14875														
		STD	1000	0493	3500	2770	0005194	1011	14873														
	122	OBS	1036	0479	34990	2771			14873														
		STD	1100	0465	3499	2773	0004996	1062	14878														
		STD	1200	0445	3499	2775	0004861	1111	14886														
		STD	1300	0427	3498	2776	0004747	1159	14895														
	122	OBS	T1313	0425	34981	2777			14897														
		STD	1400	0411	3499	2779	0004574	1206	14906														
		STD	1500	0396	3500	2781	0004395	1251	14916														
	122	OBS	T1579	0386	35022	2784			14926														

TABLE VII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SUN INCLIN	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311	082	OW	44 00N	04 038W	149	40	06	17	119	1967	DOB	020	4603	15	20	1		X1	0	2		0020
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS						
			COLOR CODE		TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						19	510	325	183	150	R	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	S Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C					
		STD	0000	1677	3601	2636	0016699	0000	15141													
	119	OBS	0000	1677	36014	2636			15141													
		STD	0010	1678	3602	2636	0016736	0017	15143													
		STD	0020	1678	3602	2636	0016766	0033	15144													
	119	OBS	0021	1678	36017	2636			15145													
		STD	0030	1637	3598	2643	0016150	0050	15133													
	119	OBS	0046	1577	35940	2654			15117													
		STD	0050	1571	3594	2655	0015056	0081	15116													
		STD	0075	1535	3594	2664	0014337	0118	15109													
		STD	0100	1505	3595	2671	0013753	0153	15103													
	119	OBS	0103	1502	35946	2671			15103													
		STD	0125	1486	3595	2675	0013406	0187	15102													
	119	OBS	0140	1471	35951	2679			15099													
		STD	0150	1454	3592	2680	0013023	0220	15095													
	119	OBS	0186	1402	35843	2685			15083													
		STD	0200	1389	3583	2687	0012490	0284	15081													
		STD	0250	1347	3579	2693	0012078	0345	15075													
	119	OBS	0280	1327	35768	2695			15073													
		STD	0300	1325	3576	2695	0012019	0405	15076													
	119	OBS	0372	1286	35715	2699			15074													
		STD	0400	1252	3565	2701	0011637	0524	15066													
	119	OBS	T0468	1160	35502	2707			15044													
		STD	0500	1109	3543	2711	0010806	0636	15030													
	119	OBS	0560	1011	35300	2719			15004													
		STD	0600	0925	3522	2727	0009355	0737	14978													
		STD	0700	0748	3508	2743	0007757	0822	14925													
	119	OBS	T0746	0684	35038	2749			14908													
		STD	0800	0638	3504	2755	0006631	0894	14898													
		STD	0900	0565	3503	2764	0005787	0956	14886													
	119	OBS	0940	0541	35028	2767			14883													
		STD	1000	0516	3502	2769	0005329	1012	14882													
		STD	1100	0479	3501	2772	0005055	1064	14884													
	119	OBS	T1193	0451	34991	2775			14887													
		STD	1200	0449	3499	2775	0004854	1113	14888													
		STD	1300	0425	3502	2779	0004471	1160	14895													
		STD	1400	0408	3504	2783	0004168	1203	14905													
	119	OBS	T1457	0401	35053	2785			14912													

TABLE VIII. Observed and interpolated oceanographic data for stations taken by USCGC SPENCER at Ocean Station DELTA, 11 July-3 August 1967, prepared from NODC listing No. 31-1091 SC.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSJOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10'	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT.	PER		SEA	TYPE
31	091	SC	4456 N	04105 W	149	31	07	11	100	1967	009	001	4763	13	27	3	3	X2	7	3	0001	
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
								27	512	200	211	206	5	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SI O <sub>4</sub> -Si μg - dl/l	pH	S C					
		STD	0000	2034	3607	2551	0024863	0000	15243													
100		OBS	0000	2034	36070	2551			15243													
		STD	0010	1971	3608	2568	0023246	0024	15228													
		STD	0020	1898	3609	2587	0021423	0046	15204													
100		OBS	0023	1874	36090	2594			15203													
		STD	0030	1801	3610	2613	0019036	0067	15183													
100		OBS	0043	1691	36102	2640			15153													
		STD	0050	1665	3610	2646	0015968	0102	15146													
		STD	0075	1589	3608	2662	0014508	0140	15127													
100		OBS	0088	1560	36068	2668			15120													
		STD	0100	1547	3606	2670	0013870	0175	15119													
		STD	0125	1523	3604	2674	0013528	0209	15114													
100		OBS	0134	1513	36033	2676			15113													
		STD	0150	1492	3599	2677	0013310	0243	15104													
100		OBS	0176	1457	35935	2680			15101													
		STD	0200	1433	3591	2684	0012608	0308	15096													
		STD	0250	1385	3585	2689	0012406	0371	15088													
100		OBS	0259	1377	35843	2690			15087													
		STD	0300	1354	3582	2693	0012140	0433	15086													
100		OBS	0344	1319	35762	2696			15061													
		STD	0400	1257	3564	2699	0011806	0552	15068													
100		OBS	T0430	1216	35576	2702			15058													
		STD	0500	1096	3540	2711	0010789	0665	15025													
100		OBS	0515	1071	35370	2713			15019													
		STD	0600	0927	3527	2730	0009022	0764	14979													
		STD	0700	0786	3518	2746	0007603	0848	14941													
		STD	0800	0674	3512	2757	0006524	0918	14914													
100		OBS	0861	0621	35089	2762			14902													
		STD	0900	0600	3508	2764	0005904	0980	14900													
		STD	1000	0552	3507	2769	0005443	1037	14898													
100		OBS	1072	0522	35057	2772			14897													
		STD	1100	0511	3505	2772	0005152	1090	14897													
		STD	1200	0477	3504	2775	0004880	1140	14900													
100		OBS	T1282	0454	35028	2777			14904													



TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN- SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO, NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
311091		SC	4470 N	04110 W	14941	07	14	102	1967	009	002	4537	15	28	3	2	X2	7	8	0002	
WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
				34	512	142	200	189	6	14											
MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-210?	Σ Δ O DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	CHLOR a				
		STD	0000	1990	3601	2558	0024163	0000	15230												
	102	OBS	0000	1990	36013	2558			15230												
		STD	0010	1962	3601	2565	0023543	0024	15224												
		STD	0020	1914	3600	2577	0022438	0047	15213												
	102	OBS	0025	1883	35998	2584			15205												
		STD	0030	1827	3602	2600	0020233	0068	15190												
		STD	0050	1651	3609	2648	0015727	0104	15142												
	102	OBS	0051	1644	36091	2650			15140												
		STD	0075	1581	3604	2661	0014624	0142	15124												
		STD	0100	1535	3601	2669	0013926	0178	15114												
	102	OBS	0102	1532	36005	2669			15113												
		STD	0125	1529	3600	2670	0013941	0213	15116												
		STD	0150	1505	3600	2675	0013542	0247	15112												
	102	OBS	0152	1502	35996	2675			15112												
		STD	0200	1390	3578	2683	0012875	0313	15081												
	102	OBS	0203	1385	35771	2683			15080												
		STD	0250	1360	3575	2687	0012608	0377	15079												
		STD	0300	1328	3573	2692	0012254	0439	15076												
	102	OBS	0305	1324	35731	2693			15076												
		STD	0400	1248	3563	2700	0011705	0559	15065												
	102	OBS	0405	1241	35624	2701			15063												
		STD	0500	1060	3535	2714	0010510	0670	15012												
	102	OBS	T0510	1042	35330	2716			15007												
		STD	0600	0886	3518	2730	0009007	0767	14963												
	102	OBS	0608	0874	35165	2731			14959												
		STD	0700	0764	3514	2746	0007559	0850	14932												
		STD	0800	0660	3510	2757	0006468	0920	14908												
	102	OBS	T0812	0648	35098	2759			14905												
		STD	0900	0565	3505	2766	0005640	0981	14886												
		STD	1000	0496	3501	2771	0005130	1035	14874												
	102	OBS	1001	0495	35007	2771			14874												
		STD	1100	0468	3499	2773	0005020	1085	14879												
		STD	1200	0444	3498	2774	0004884	1135	14886												
	102	OBS	T1258	0433	34972	2775			14891												
		STD	1300	0426	3497	2776	0004822	1183	14895												
		STD	1400	0411	3496	2776	0004794	1232	14905												
		STD	1500	0401	3496	2777	0004753	1279	14918												
	102	OBS	T1518	0400	34960	2778			14920												

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	# OBS. PTS.	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYF	AMT	
311	091	SC	4402 N	04059 W	149	40	07	15	105	1967	009	003	4537	16	32	1	2	X1	7	6	0003	
		WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		SPECIAL OBS. DEPTHS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	VIS. CODE														
					32	S12	234	189	150	7	14											
MESSNGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SIO <sub>4</sub> -Si μg - dl/l	pH	σ <sub>t</sub> C					
		STD	0000	2030	3595	2542	0025666	0000	15241													
105		OBS	0000	2030	35945	2542			15241													
		STD	0010	1959	3601	2566	0023447	0025	15224													
		STD	0020	1888	3605	2587	0021448	0047	15206													
105		OBS	0027	1937	36080	2602			15193													
		STD	0030	1910	3609	2610	0019321	0067	15186													
		STD	0050	1653	3612	2648	0015777	0102	15146													
105		OBS	0053	1645	36122	2652			15141													
		STD	0075	1593	3609	2662	0014522	0140	15129													
		STD	0100	1541	3604	2670	0013836	0176	15116													
105		OBS	0106	1530	36033	2672			15113													
		STD	0125	1497	3598	2675	0013412	0210	15105													
		STD	0150	1461	3593	2679	0013096	0243	15098													
105		OBS	0150	1449	35910	2680			15095													
		STD	0200	1416	3587	2684	0012750	0308	15091													
105		OBS	0213	1406	35859	2686			15089													
		STD	0250	1380	3583	2689	0012451	0371	15086													
		STD	0300	1344	3578	2692	0012230	0432	15082													
105		OBS	0319	1330	35765	2694			15081													
		STD	0400	1278	3570	2700	0011778	0552	15076													
105		OBS	0424	1248	35655	2702			15069													
		STD	0500	1098	3539	2710	0010899	0666	15026													
105		OBS	T0531	1037	35312	2715			15008													
		STD	0600	0892	3520	2731	0008974	0765	14966													
105		OBS	0635	0333	35155	2737			14948													
		STD	0700	0780	3515	2744	0007731	0849	14939													
		STD	0800	0699	3512	2754	0006892	0922	14924													
105		OBS	T0844	0663	35109	2758			14917													
		STD	0900	0608	3508	2763	0006017	0986	14904													
		STD	1000	0529	3504	2769	0005350	1043	14888													
105		OBS	1052	0497	35023	2772			14883													
		STD	1100	0483	3501	2773	0005041	1095	14885													
		STD	1200	0457	3499	2774	0004952	1145	14891													
		STD	1300	0434	3498	2775	0004890	1194	14898													
105		OBS	T1310	0432	34973	2775			14899													
		STD	1400	0415	3495	2776	0004546	1243	14907													
		STD	1500	0399	3496	2778	0004727	1291	14917													
105		OBS	T1569	0390	34957	2778			14925													



TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SUN-DRIFT 10° 1'	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
511094	3C	4356 N	04112 W	149	31	07	17	075	1967	009	009	537	15	34	1	4		X0	0		0005	
		WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE													
				34	504	201	222	174	8	14												
MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C					
		STD	0000	2051	3596	2537	0026115	0000	15246													
095		OBS	0000	2051	35957	2537			15246													
		STD	0010	1910	3597	2575	0022529	0024	15209													
		STD	0020	1798	3599	2605	0019730	0045	15179													
095		OBS	0025	1752	36012	2618			15167													
		STD	0030	1724	3604	2627	0017665	0064	15160													
		STD	0050	1631	3616	2657	0014742	0097	15137													
095		OBS	0051	1627	36170	2660			15136													
		STD	0075	1570	3608	2666	0014093	0133	15121													
		STD	0100	1514	3600	2672	0013557	0167	15109													
095		OBS	0103	1515	35996	2672			15108													
		STD	0125	1478	3592	2675	0013449	0201	15099													
		STD	0150	1444	3586	2677	0013254	0235	15091													
095		OBS	0155	1440	35854	2678			15090													
		STD	0200	1392	3578	2682	0012116	0300	15082													
095		OBS	0204	1363	35776	2683			15081													
		STD	0250	1365	3577	2686	0012523	0364	15080													
		STD	0300	1334	3577	2694	0012115	0425	15079													
095		OBS	0307	1330	35767	2694			15079													
		STD	0400	1277	3570	2700	0011759	0545	15075													
095		OBS	0409	1267	35694	2701			15073													
		STD	0500	1121	3545	2711	0010879	0658	15035													
095		OBS	T0516	1095	35420	2713			15028													
		STD	0600	0957	3528	2726	0009497	0760	14991													
095		OBS	0615	0936	35238	2728			14985													
		STD	0700	0804	3517	2742	0007957	0847	14943													
		STD	0800	0670	3510	2755	0006746	0920	14915													
095		OBS	T0820	0658	35088	2757			14910													
		STD	0900	0594	3507	2764	0005694	0983	14898													
		STD	1000	0531	3505	2770	0005303	1039	14889													
095		OBS	1026	0517	35041	2771			14887													
		STD	1100	0453	3503	2773	0005057	1091	14890													
		STD	1200	0465	3501	2774	0004740	1141	14895													
095		OBS	T1272	0446	35002	2776			14890													
		STD	1300	0439	3500	2777	0004775	1190	14900													
		STD	1400	0418	3498	2777	0004759	1237	14906													
		STD	1500	0400	3496	2778	0004740	1285	14917													
095		OBS	T1542	0343	34951	2776			14921													

TABLE VIII.—Continued

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	TYPE	AMT
311091	SC		4354 N	04055 W		145	30	07	16	115	1967	009	006	4537	16	29	3	2	X2	5	8	0006		
						WATER		WIND		BARO- METER		AIR TEMP. °C			NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE											
								28	508	257	194	163	7	14										
MESSNGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\frac{\Delta \sigma}{\sigma}$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S C							
		STD	0000	2043	3601	2544	0025512	0000	15245															
	115	OBS	0000	2043	36012	2544			15245															
		STD	0010	2015	3600	2550	0024903	0025	15239															
		STD	0020	1988	3600	2557	0024299	0050	15233															
	115	OBS	0026	1971	35991	2561			15229															
		STD	0030	1911	3601	2578	0022334	0073	15214															
		STD	0050	1672	3608	2643	0016271	0112	15148															
	115	OBS	0051	1663	36084	2645			15146															
		STD	0075	1600	3606	2658	0014895	0151	15130															
		STD	0100	1544	3602	2668	0014047	0187	15117															
	115	OBS	0102	1540	36013	2668			15116															
		STD	0125	1497	3594	2672	0013704	0222	15105															
	115	OBS	0147	1466	35898	2676			15098															
		STD	0150	1465	3590	2676	0013413	0255	15098															
		STD	0200	1438	3569	2661	0013036	0322	15098															
	115	OBS	T0206	1434	35892	2662			15098															
		STD	0250	1384	3583	2688	0012532	0385	15068															
		STD	0300	1339	3577	2693	0012203	0447	15060															
	115	OBS	0306	1335	35768	2693			15060															
		STD	0400	1295	3574	2699	0011621	0567	15082															
	115	OBS	0407	1288	35730	2700			15081															
		STD	0500	1124	3545	2710	0010934	0661	15036															
	115	OBS	T0507	1112	35436	2711			15023															
		STD	0600	0966	3526	2725	0009606	0784	14994															
	115	OBS	0610	0950	35261	2726			14989															
		STD	0700	0787	3514	2742	0007913	0672	14941															
		STD	0800	0648	3505	2755	0006663	0744	14903															
	115	OBS	T0615	0631	35037	2756			14898															
		STD	0900	0566	3502	2763	0005902	1007	14887															
		STD	1000	0509	3500	2769	0005376	1064	14879															
	115	OBS	1032	0493	34994	2770			14878															
		STD	1100	0472	3499	2772	0005073	1116	14881															
		STD	1200	0446	3498	2774	0004911	1166	14886															
	115	OBS	T1291	0427	34970	2776			14894															
		STD	1300	0425	3497	2776	0004809	1214	14894															
		STD	1400	0410	3496	2777	0004761	1262	14905															
		STD	1500	0399	3495	2777	0004600	1310	14917															
	115	OBS	T1572	0395	34950	2777			14927															

TABLE VIII.—Continued

REFERENCE CIRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SURFACE DIRECTION	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER	
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA				TYPE
311091	091	SC	4400 N	04100 W		149	41	07	20	101	1967	009	007	4537	14	09	3	3		X2	5	8	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C			NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	DIRL	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB	VIS. CODE										
								10	508	230	183	183	7	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>2</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CODE						
		STD	0000	2008	3606	2557	0024254	0000	15236														
101		OBS	0000	2008	36063	2557			15236														
		STD	0010	2008	3607	2557	0024264	0024	15238														
		STD	0020	2008	3607	2557	0024292	0049	15239														
101		OBS	0026	2008	36070	2557			15240														
		STD	0030	1943	3608	2575	0022615	0072	15223														
101		OBS	0046	1715	36129	2636			15161														
		STD	0050	1712	3613	2637	0016609	0111	15161														
		STD	0075	1670	3615	2649	0015792	0152	15153														
101		OBS	0095	1632	36168	2659			15145														
		STD	0100	1619	3615	2660	0014740	0190	15141														
		STD	0125	1562	3606	2667	0014223	0227	15127														
101		OBS	0142	1529	36008	2670			15119														
		STD	0150	1518	3598	2670	0013936	0262	15116														
101		OBS	T0192	1464	35888	2675			15105														
		STD	0200	1455	3588	2677	0013485	0330	15103														
		STD	0250	1406	3585	2685	0012835	0396	15095														
101		OBS	0281	1380	35834	2689			15092														
		STD	0300	1371	3583	2691	0012410	0459	15092														
101		OBS	0367	1327	35775	2696			15088														
		STD	0400	1304	3575	2698	0011927	0581	15085														
101		OBS	T0457	1243	35648	2703			15073														
		STD	0500	1168	3548	2704	0011531	0698	15052														
101		OBS	0547	1088	35345	2708			15030														
		STD	0600	0996	3529	2720	0010048	0806	15005														
		STD	0700	0843	3520	2738	0008356	0898	14963														
101		OBS	T0728	0805	35177	2743			14953														
		STD	0800	0718	3513	2752	0007102	0975	14921														
		STD	0900	0620	3508	2761	0006187	1042	14908														
101		OBS	0920	0603	35067	2762			14905														
		STD	1000	0558	3505	2767	0005672	1101	14900														
		STD	1100	0509	3504	2772	0005198	1155	14896														
101		OBS	T1166	0482	35028	2774			14896														
		STD	1200	0470	3502	2775	0004933	1206	14897														
		STD	1300	0440	3500	2776	0004786	1255	14901														
101		OBS	1393	0420	34988	2778			14908														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	OBS. INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER				SEA			
31	091	SC	4404 N	04103 W	149	41	07	21	100	1967	009	008	4537	11	2	14	1	0	6	0006					
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE		DIR.		METER (mb)		DRY BULB		WET BULB		VIE. CODE													
				24		506		254		211		194		7		14									
MESSAGE TIME HR /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta D$ DYN. MK. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	SI O <sub>4</sub> -Si $\mu\text{g} - \text{ol/l}$	pH	CHLOR.								
		STD	0000	2031	3608	2552	0024714	0000	15242																
100		OBS	0000	2031	3608	2552			15242																
		STD	0010	2016	3608	2556	0024341	0025	15240																
100		OBS	0010	1977	36086	2567			15230																
		STD	0020	1915	3612	2586	0021599	0047	15214																
		STD	0030	1787	3619	2623	0018053	0067	15180																
100		OBS	0032	1700	36205	2630			15175																
		STD	0050	1725	3622	2641	0016439	0102	15160																
100		OBS	0070	1674	36242	2655			15154																
		STD	0075	1657	3622	2657	0014997	0141	15150																
		STD	0100	1588	3612	2665	0014274	0176	15131																
100		OBS	0100	1588	36120	2665			15131																
		STD	0125	1553	3604	2667	0014174	0213	15124																
100		OBS	T0139	1532	36002	2669			15119																
		STD	0150	1509	3597	2672	0013816	0248	15113																
		STD	0200	1424	3586	2682	0013002	0315	15093																
100		OBS	0200	1424	35858	2682			15093																
		STD	0250	1373	3584	2691	0012250	0378	15084																
100		OBS	0267	1366	35830	2692			15085																
		STD	0300	1373	3584	2691	0012407	0440	15092																
100		OBS	T0319	1377	35839	2690			15097																
100		OBS	0393	1330	35779	2695			15093																
		STD	0400	1317	3575	2696	0012185	0503	15089																
		STD	0500	1136	3542	2705	0011374	0661	15040																
100		OBS	T0537	1075	35337	2710			15023																
		STD	0600	0981	3526	2721	0010009	0788	14999																
100		OBS	0688	0858	35183	2735			14967																
		STD	0700	0839	3518	2738	0006436	0880	14962																
		STD	0800	0704	3512	2753	0006960	0957	14925																
100		OBS	T0696	0605	35085	2763			14902																
		STD	0900	0602	3508	2763	0005932	1022	14901																
		STD	1000	0534	3506	2770	0005270	1076	14890																
		STD	1100	0495	3505	2774	0004990	1129	14892																
100		OBS	T1146	0495	35049	2774			14899																

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE I/10	LONGITUDE '/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER				
CRUISE CODE	ID. NO.					10'	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER	SEA	TYPE
311	091	SC	4404 N	04107 W	149	41	07	22	094	1967	001	005	4537	36	33	2	4	X2	7	8	0009		
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE					
						33		SUB		264		200		200		7		10					
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>2</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CL						
		STD	0000	2025	3605	2551	0024772	0000	15240														
099		OBS	0000	2025	36051	2551			15240														
		STD	0010	2016	3605	2555	0024672	0025	15240														
		STD	0020	2011	3604	2554	0024972	0049	15240														
099		OBS	0024	2008	36026	2555			15240														
		STD	0030	1917	3608	2582	0021974	0073	15216														
		STD	0050	1684	3617	2647	0015666	0110	15153														
099		OBS	0050	1684	36170	2647			15153														
		STD	0075	1624	3615	2658	0014715	0149	15159														
		STD	0100	1576	3609	2666	0014252	0165	15127														
099		OBS	0100	1576	36067	2666			15127														
		STD	0125	1549	3606	2670	0013942	0221	15123														
099		OBS	0149	1520	36016	2673			15117														
		STD	0150	1518	3601	2673	0013717	0255	15117														
099		OBS	T0199	1452	35885	2678			15102														
		STD	0200	1451	3589	2678	0013555	0283	15102														
		STD	0250	1412	3586	2684	0012677	0350	15097														
099		OBS	0299	1377	35834	2690			15094														
		STD	0300	1377	3583	2689	0012532	0452	15094														
099		OBS	0358	1314	35751	2696			15088														
		STD	0400	1312	3575	2697	0012086	0575	15088														
099		OBS	T0499	1200	35597	2707			15064														
		STD	0500	1198	3559	2707	0011295	0692	15063														
099		OBS	0597	1055	35347	2710			15019														
		STD	0600	1029	3534	2719	0010259	0800	15017														
		STD	0700	0856	3520	2736	0008505	0894	14968														
099		OBS	T0764	0756	35124	2748			14936														
		STD	0800	0721	3512	2750	0007220	0973	14932														
		STD	0900	0624	3509	2761	0006170	1040	14910														
099		OBS	0980	0553	35065	2767			14899														
		STD	1000	0554	3506	2769	0005544	1098	14898														
		STD	1100	0515	3504	2771	0005252	1152	14898														
		STD	1200	0475	3501	2774	0005047	1209	14898														
099		OBS	T1231	0401	35000	2775			14898														
		STD	1300	0434	3499	2776	0004780	1253	14898														
099		OBS	1384	0405	34965	2778			14900														
		STD	1400	0404	3496	2777	0004702	1300	14902														
		STD	1500	0396	3495	2777	0004761	1348	14916														
		STD	1750	0378	3494	2778	0004809	1467	14950														
		STD	2000	0362	3493	2779	0004866	1588	14986														
119		OBS	T2052	0360	34927	2779			14990														
		STD	2500	0336	3494	2782	0004714	1630	15060														
119		OBS	T2529	0333	34939	2783			15066														
		STD	3000	0296	3495	2787	0004488	2063	15130														
119		OBS	3046	0293	34947	2787			15136														
119		OBS	T3585	0250	34935	2789			15214														



TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOD STATION NUMBER
CRUISE CODE	ID. NO.					10'	'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT			
311091	SC	4404 N	04101 W	149	41	07	23	062	1967	DO9	010	4557	17	24	2	4	X1	6	6	0010
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS								
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VEL. CODE						
				25		508		278		211		200		7		14				
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C.C.			
		STD	0000	2031	3608	2552	0024707	0000	15242											
082		OBS	0000	2031	36081	2552			15242											
		STD	0010	1969	3610	2570	0023044	0024	15227											
		STD	0020	1908	3612	2587	0021428	0046	15212											
082		OBS	0026	1861	36142	2601			15201											
		STD	0030	1848	3615	2605	0019792	0067	15197											
		STD	0050	1732	3622	2639	0016622	0103	15168											
082		OBS	0055	1708	36231	2646			15162											
		STD	0075	1657	3619	2655	0015216	0143	15149											
		STD	0100	1632	3614	2664	0014437	0180	15136											
082		OBS	0109	1585	36122	2666			15132											
		STD	0125	1563	3609	2669	0014026	0216	15127											
		STD	0150	1529	3603	2672	0013507	0250	15120											
082		OBS	0165	1509	36001	2674			15116											
		STD	0200	1463	3592	2678	0013360	0318	15106											
082		OBS	T0221	1439	35884	2680			15102											
		STD	0250	1413	3587	2685	0012834	0384	15098											
		STD	0300	1371	3583	2691	0012410	0447	15092											
082		OBS	0329	1349	35809	2694			15089											
		STD	0400	1313	3577	2698	0011960	0569	15088											
082		OBS	0439	1278	35716	2701			15082											
		STD	0500	1200	3559	2707	0011333	0685	15064											
082		OBS	0552	1117	35471	2713			15042											
		STD	0600	1012	3534	2722	0009961	0792	15011											
082		OBS	0659	0898	35217	2731			14977											
		STD	0700	0832	3518	2739	0008326	0883	14959											
		STD	0800	0694	3510	2753	0006966	0960	14921											
082		OBS	T0887	0604	35059	2762			14900											
		STD	0900	0596	3506	2762	0006010	1024	14899											
		STD	1000	0540	3505	2769	0005440	1082	14892											
082		OBS	1098	0496	35039	2773			14891											
		STD	1100	0455	3504	2773	0005017	1134	14891											
		STD	1200	0471	3503	2775	0004898	1183	14897											
		STD	1300	0447	3502	2777	0004747	1232	14904											
082		OBS	T1371	0431	35010	2778			14909											
		STD	1400	0425	3500	2778	0004685	1274	14911											
		STD	1500	0404	3498	2779	0004647	1325	14919											
082		OBS	1655	0374	34940	2779			14922											

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIG. INDEX	MARGEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO	OAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
311091	5C	4358 N	04103 W	149	31	07	24	117	1967	0091	011	4527	15	26	2	2	X1	7	17	0011	
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	METER (mbs)		DRY BULB	WET BULB	VIS. CODE											
					26	510	298	228	217	7	14										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S CC				
		STD	0000	2081	3607	2538	0026097	0000	15256												
117		OBS	0000	2081	36066	2538			15256												
		STD	0010	2010	3592	2543	0025579	0026	15239												
		STD	0020	1945	3500	2558	0024223	0051	15209												
117		OBS	0025	1904	35850	2568			15200												
		STD	0030	1846	3591	2587	0021485	0074	15194												
117		OBS	0049	1670	36075	2643			15148												
		STD	0050	1666	3607	2643	0016209	0111	15146												
		STD	0075	1564	3605	2661	0014617	0450	15125												
117		OBS	0097	1535	36032	2671			15113												
		STD	0100	1534	3603	2671	0013759	0165	15114												
		STD	0125	1522	3602	2675	0013653	0420	15114												
117		OBS	0146	1502	35991	2675			15111												
		STD	0150	1494	3598	2676	0013425	0253	15109												
117		OBS	T0195	1425	35850	2681			15092												
		STD	0200	1422	3585	2681	0013019	0320	15092												
		STD	0250	1395	3585	2687	0012610	0384	15092												
117		OBS	0291	1370	35030	2691			15090												
		STD	0300	1366	3502	2691	0012502	0446	15090												
117		OBS	0384	1305	35729	2697			15082												
		STD	0400	1291	3570	2697	0012034	0568	15080												
117		OBS	T0480	1192	35548	2705			15058												
		STD	0500	1152	3549	2708	0011159	0684	15046												
117		OBS	0573	1017	35328	2720			15008												
		STD	0600	0967	3529	2725	0009550	0788	14994												
		STD	0700	0808	3516	2741	0006093	0676	14956												
117		OBS	T0764	0727	35107	2749			14928												
		STD	0800	0712	3510	2750	0007203	0952	14926												
		STD	0900	0605	3510	2750	0006712	1022	14926												
		STD	1000	0610	3509	2763	0006117	1086	14921												
117		OBS	1061	0573	35084	2767			14916												
		STD	1100	0541	3507	2770	0005415	1144	14910												
		STD	1200	0474	3503	2775	0004913	1195	14899												
117		OBS	T1218	0464	35021	2775			14897												
		STD	1300	0426	3499	2777	0004701	1243	14896												
		STD	1400	0404	3497	2778	0004623	1290	14902												
		STD	1500	0402	3495	2777	0004653	1337	14916												
117		OBS	T1500	0402	34951	2777			14918												

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INCHES	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311091		SC	4402 N	04057 W	145	40	07	25	101	1967	009	012	4537	17	2	2	2	X0			0012		
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		OIR.		SPEED OR FORCE		(mbs)		DRY BULB		WET BULB									
				22		S05		315		233		222		7		14							
MESSNGR TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$ ?	$\Sigma \Delta \rho$ DW. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S.C.C.						
		STD	0000	2110	3606	2529	0026664	0000	15263														
101		OBS	0000	2110	36064	2529			15263														
		STD	0010	2108	3607	2530	0026820	0027	15264														
		STD	0020	2075	3607	2540	0025966	0052	15257														
101		OBS	0020	2026	36076	2553			15246														
		STD	0030	1997	3610	2563	0023619	0078	15238														
		STD	0050	1758	3626	2636	0016935	0119	15176														
101		OBS	0055	1712	36290	2649			15164														
		STD	0075	1662	3622	2656	0015110	0159	15151														
		STD	0100	1611	3615	2662	0014563	0196	15139														
101		OBS	0111	1594	36130	2665			15135														
		STD	0125	1589	3612	2665	0014376	0232	15136														
		STD	0150	1570	3610	2666	0014171	0268	15134														
101		OBS	0168	1545	36089	2672			15130														
		STD	0200	1477	3595	2677	0013436	0337	15111														
101		OBS	0223	1435	35673	2680			15100														
		STD	0250	1414	3586	2684	0012927	0403	15098														
		STD	0300	1371	3581	2689	0012556	0467	15091														
101		OBS	0334	1339	35771	2693			15086														
		STD	0400	1267	3566	2699	0011855	0589	15071														
101		OBS	0444	1216	35589	2703			15060														
		STD	0500	1157	3551	2709	0011106	0703	15046														
101		OBS	T0562	1070	35400	2716			15026														
		STD	0600	0992	3530	2722	0009906	0808	15003														
101		OBS	0667	0870	35164	2731			14968														
		STD	0700	0823	3515	2738	0008403	0900	14955														
		STD	0800	0700	3510	2752	0007053	0977	14924														
101		OBS	T0892	0612	35065	2761			14904														
		STD	0900	0607	3506	2761	0006150	1043	14903														
		STD	1000	0549	3505	2768	0005548	1102	14896														
		STD	1100	0503	3504	2772	0005117	1155	14894														
101		OBS	1112	0498	35037	2773			14894														
		STD	1200	0477	3503	2775	0004954	1205	14900														
		STD	1300	0456	3502	2776	0004852	1254	14908														
101		OBS	T1387	0436	35006	2777			14915														
		STD	1400	0435	3500	2777	0004619	1303	14926														
		STD	1500	0417	3499	2775	0004747	1351	14925														
101		OBS	T1675	0368	34958	2779			14942														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR				HGT	PER	SEA	TYPE
31	1091	SC	4401 N	04102 W	149	41	07	26	099	1967	009	013	45	37	15	21	2	2	X2	7	8		0013
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB		VIS. CODE												
						26		509	261	228	217	7	14										
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-N $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CODE						
		STD	0000	205d	3583	2526	0027213	0000	15247														
099		OBS	0000	205b	35830	2526			15247														
		STD	0010	2023	3584	2536	0026285	0027	15239														
		STD	0020	1962	3587	2554	0024572	0052	15224														
099		OBS	0025	1922	35887	2566			15214														
		STD	0030	1853	3592	2586	0021581	0075	15196														
099		OBS	0049	1642	36005	2644			15138														
		STD	0050	1638	3600	2645	0016091	0113	15137														
		STD	0075	1543	3596	2663	0014384	0151	15111														
099		OBS	0097	1400	35933	2674			15098														
		STD	0100	1467	3594	2674	0013424	0186	15098														
		STD	0125	1474	3594	2677	0013220	0219	15098														
099		OBS	0147	1460	35941	2680			15097														
		STD	0150	1457	3594	2681	0012940	0452	15096														
		STD	0200	1411	3586	2685	0012720	0316	15089														
099		OBS	T0221	1392	35833	2687			15086														
		STD	0250	1363	3581	2691	0012253	0378	15081														
099		OBS	0290	1330	35774	2695			15076														
		STD	0300	1329	3577	2695	0012004	0439	15077														
099		OBS	0385	1288	35720	2699			15077														
		STD	0400	1271	3569	2700	0011714	0558	15073														
099		OBS	T0480	1173	35540	2708			15051														
		STD	0500	1145	3550	2710	0010950	0671	15044														
099		OBS	0573	1038	35366	2719			15016														
		STD	0600	0983	3532	2725	0009604	0774	15000														
		STD	0700	0808	3517	2742	0008020	0862	14950														
099		OBS	T0757	0729	35118	2749			14928														
		STD	0800	0657	3510	2754	0006002	0936	14915														
		STD	0900	0604	3508	2763	0005960	1000	14902														
099		OBS	0952	0568	35063	2766			14896														
		STD	1000	0540	3506	2768	0005470	1058	14895														
		STD	1100	0505	3504	2772	0005159	1111	14895														
		STD	1200	0471	3502	2775	0004939	1161	14897														
099		OBS	T1205	0470	35020	2775			14898														
		STD	1300	0445	3501	2777	0004779	1210	14903														
		STD	1400	0420	3499	2777	0004772	1256	14912														
099		OBS	T1484	0416	34978	2777			14922														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 10'	LONGITUDE ° 10'	OBS. NO.	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SEMPLS	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC. STATION NUMBER	
CRUISE CODE	IO. NO.					10'	1'	MO	DAY		HR. 10'	CRUISE NO.			STATION NUMBER	DIR.	HGR.	PER.		SEA.	TYPE		AMT
311091		SC	4400 N	04106 W	149	41	07	27	094	1967	D04	014	4537	16	29	2	2		X1	0	2		0014
		WATER		WIND		AIR TEMP. °C																	
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
					22	508	237	261	233	7	14												
MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-210°	Σ Δ O OYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	Si D <sub>4</sub> -Si μg - ml/l	pH	S.C.C.						
		STD	0000	2144	3602	2517	0028058	0000	15272														
094		OBS	0000	2144	36022	2517			15272														
		STD	0010	2026	3590	2540	0025927	0027	15241														
		STD	0020	1921	3564	2563	0023776	0052	15213														
094		OBS	0027	1855	35839	2579			15195														
		STD	0030	1830	3588	2589	0021321	0074	15189														
		STD	0050	1686	3610	2641	0016442	0112	15153														
094		OBS	0053	1666	36123	2647			15148														
		STD	0075	1589	3606	2661	0014655	0151	15127														
		STD	0100	1523	3600	2671	0013742	0167	15110														
094		OBS	0105	1513	35987	2672			15107														
		STD	0125	1503	3597	2673	0013612	0221	15107														
		STD	0150	1481	3594	2676	0013442	0255	15104														
094		OBS	0158	1472	35922	2676			15102														
		STD	0200	1402	3581	2683	0012901	0320	15085														
094		OBS	T0206	1391	35796	2684			15085														
		STD	0250	1372	3579	2687	0012560	0384	15065														
		STD	0300	1343	3577	2692	0012283	0446	15082														
094		OBS	0315	1333	35760	2693			15081														
		STD	0400	1269	3567	2699	0011821	0567	15072														
094		OBS	0421	1248	35635	2701			15068														
		STD	0500	1145	3548	2706	0011102	0681	15044														
094		OBS	T0533	1096	35412	2712			15031														
		STD	0600	0978	3527	2722	0009684	0786	14998														
094		OBS	0636	0920	35208	2727			14982														
		STD	0700	0819	3516	2739	0008267	0877	14954														
		STD	0800	0690	3510	2753	0006906	0953	14920														
094		OBS	T0854	0635	35081	2759			14907														
		STD	0900	0605	3507	2762	0006048	1018	14902														
		STD	1000	0547	3505	2768	0005521	1076	14895														
094		OBS	1071	0513	35041	2771			14893														
		STD	1100	0503	3504	2772	0005117	1129	14894														
		STD	1200	0470	3502	2775	0004933	1179	14897														
		STD	1300	0443	3500	2776	0004626	1228	14902														
094		OBS	T1329	0436	34998	2777			14904														
		STD	1400	0421	3499	2778	0004706	1275	14916														
		STD	1500	0404	3498	2779	0004647	1322	14915														
094		OBS	T1613	0392	34966	2779			14933														

TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	WOOD STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	DIR.			HGT PER	SEA	TYPE			
311091	SC		+403 N	04052 W		149	40	07	28	102	1967	009	015	4537	18	21	3	2	X2	7	8	0015
						WATER		WIND			AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE													
					22	511	173	228	222	7	14											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CD					
		STD	0000	2090	3582	2517	0026087	0000	15255													
102		OBS	0000	2090	35823	2517			15255													
		STD	0010	1960	3585	2553	0024631	0026	15222													
		STD	0020	1843	3589	2585	0021596	0049	15191													
102		OBS	0029	1750	35894	2610			15166													
		STD	0030	1740	3590	2613	0019065	0070	15163													
		STD	0050	1577	3591	2632	0015405	0404	15117													
102		OBS	0057	1533	35914	2662			15105													
		STD	0075	1504	3591	2668	0013918	0141	15099													
		STD	0100	1470	3590	2675	0013352	0175	15092													
102		OBS	0117	1449	35886	2678			15088													
		STD	0125	1441	3588	2680	0012971	0208	15086													
		STD	0150	1416	3586	2683	0012717	0240	15083													
102		OBS	0175	1396	35839	2686			15080													
		STD	0200	1364	3583	2688	0012369	0303	15080													
102		OBS	T0235	1365	35811	2690			15079													
		STD	0250	1359	3581	2692	0012172	0364	15079													
		STD	0300	1336	3579	2695	0011997	0425	15080													
102		OBS	0347	1315	35772	2698			15080													
		STD	0400	1309	3576	2699	0011953	0544	15087													
102		OBS	0460	1261	35681	2702			15080													
		STD	0500	1182	3554	2706	0011356	0661	15057													
102		OBS	T0577	1039	35317	2715			15017													
		STD	0500	0998	3526	2718	0010302	0769	15005													
102		OBS	0589	0855	35112	2730			14965													
		STD	0700	0842	3511	2732	0008999	0866	14962													
		STD	0600	0727	3511	2749	0007284	0948	14934													
		STD	0900	0633	3503	2760	0006299	1016	14914													
102		OBS	T0919	0617	35088	2762			14910													
		STD	1000	0566	3505	2766	0005783	1076	14903													
		STD	1100	0512	3501	2769	0005459	1133	14897													
102		OBS	1159	0486	34990	2770			14896													
		STD	1200	0474	3499	2772	0005207	1186	14898													
		STD	1300	0443	3498	2774	0005039	1237	14904													
		STD	1400	0425	3496	2775	0004978	1267	14911													
102		OBS	T1464	0412	34955	2776			14916													
		STD	1500	0405	3495	2776	0004880	1337	14919													
		STD	1750	0371	3491	2777	0004934	1459	14947													
102		OBS	1774	0369	34907	2777			14950													



TABLE VIII.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	PORT INDICATOR	MARSOTN 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	IO. NO.					10"	1"	MD	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311001		SC	4402 N	04105 W		149	41	07	30	096	1967	009	017	4537	16	22	3	2		X2	5	8	0017
		WATER		WIND		AIR TEMP. °C																	
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		BARO-METER (mbx)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
		24		511		119		211		183		7		14									
MESSNGR TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-3107	Σ Δ ρ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C C						
		STD	0000	2133	3600	2518	0027564	0000	15266														
096		OBS	0000	2133	35995	2518			15206														
		STD	0010	2021	3604	2552	0024787	0026	15241														
		STD	0020	1923	3609	2581	0022013	0050	15216														
096		OBS	0027	1862	36114	2599			15200														
		STD	0030	1840	3613	2605	0019745	0071	15195														
		STD	0050	1713	3620	2642	0016331	0107	15162														
096		OBS	0053	1697	36209	2647			15156														
		STD	0073	1630	3615	2658	0014903	0146	15141														
		STD	0100	1571	3609	2667	0014121	0182	15126														
096		OBS	0106	1560	36079	2669			15123														
		STD	0125	1544	3606	2671	0013834	0217	15121														
		STD	0159	1515	3603	2674	0013593	0251	15117														
096		OBS	0161	1506	36008	2675			15115														
		STD	0200	1449	3589	2679	0013280	0310	15101														
096		OBS	T0214	1430	35858	2680			15097														
		STD	0250	1375	3584	2691	0012276	0382	15085														
		STD	0300	1320	3581	2700	0011533	0442	15079														
096		OBS	0316	1307	35802	2702			15073														
		STD	0400	1296	3576	2700	0011735	0558	15063														
096		OBS	0420	1282	35727	2701			15081														
		STD	0500	1155	3550	2708	0011142	0673	15047														
096		OBS	T0524	1116	35444	2711			15037														
		STD	0600	0990	3531	2723	0009798	0777	15003														
096		OBS	0620	0950	35267	2726			14992														
		STD	0700	0845	3521	2739	0008314	0866	14964														
		STD	0800	0723	3515	2752	0007030	0945	14933														
096		OBS	T0832	0689	35134	2756			14925														
		STD	0900	0624	3510	2762	0006097	1010	14910														
		STD	1000	0546	3505	2768	0005507	1068	14895														
096		OBS	1043	0519	35039	2770			14891														
		STD	1100	0497	3503	2772	0005140	1122	14891														
		STD	1200	0464	3500	2774	0004971	1172	14894														
		STD	1300	0436	3498	2775	0004065	1221	14899														
096		OBS	T1309	0434	34980	2776			14900														
		STD	1400	0414	3497	2777	0004760	1269	14906														
		STD	1500	0398	3495	2777	0004787	1317	14916														
096		OBS	T1587	0389	34948	2776			14927														







532-AA

WOODS HOLE OCEANOGRAPHIC INSTITUTION  
ATLAS - GAZETTEER COLLECTION

