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OCEANOGRAPHIC OBSERVATIONS
IN KANE BASIN AND BAFFIN BAY
MAY AND AUGUST-OCTOBER 1969

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REPORT No. 44 CG 373-44

OCEANOGRAPHIC OBSERVATIONS IN KANE BASIN AND BAFFIN BAY MAY AND AUGUST-OCTOBER 1969

Martin J. Moynihan

Robin D. Muench

MBL/WHOI

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WASHINGTON, D.C.

OCTOBER 1971

USCGC SOUTHWIND (WAGB 280)

USCGC WESTWIND (WAGB 281)

ABSTRACT

Oceanographic conditions in Kane Basin during the spring and in northern Baffin Bay during the late summer and early fall of 1969 are described. Preliminary results of current meter measurements taken through the ice in Kane Basin are discussed. Vertical sections of temperature and salinity are presented and the relationship of these variables to Baffin Bay-North Water, Baffin Bay Deep Water and the general circulation of Baffin Bay is discussed. Analyses of isentropic diagrams and dynamic topography are also presented. Listings of physical and chemical station data are included.

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TABLE OF CONTENTS

	Page
Title Page.....	i
Abstract.....	iii
Table of Contents.....	v
List of Illustrations.....	v
Preface.....	ix
Oceanographic Conditions at a Fixed Location in Western Kane Basin, May 1969.....	1
References.....	2
Illustrations.....	3
Oceanographic Conditions in Northeastern Baffin Bay during August 1969.....	6
Introduction.....	6
Discussion.....	6
References.....	7
Illustrations.....	8
Oceanographic Conditions in the Melville-Carey Islands Region, Northern Baffin Bay, 17 September–2 October 1969.....	22
Introduction.....	22
Sampling Program.....	22
Data Analysis.....	22
Oceanographic Results.....	23
References.....	24
Illustrations.....	25
Appendix A—Oceanographic Data.....	49

LIST OF ILLUSTRATIONS

Oceanographic Conditions at a Fixed Location in Western Kane Basin, May 1969

Figure

1. Geographical position of the ice camp from which oceanographic stations were occupied and current measurements made in May 1969. The dotted line indicates the 100 fm isobath (from Canada Hydrographic Office Chart No. 7000)..... 3
2. Envelopes of the vertical distributions of temperature and salinity observed in western Kane Basin during May 1969..... 4
3. Histograms of current speed and direction at 50 m depth in western Kane Basin during May 1969..... 5

Oceanographic Conditions in Northeastern Baffin Bay During August 1969

1. Positions of CGC SOUTHWIND stations 1–36, 14–28 August 1969 and locations of tidewater glaciers in Northeastern Baffin Bay..... 8
2. Dynamic topography (dynamic meters) of the sea surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14–28 August 1969... 9

3. Dynamic topography (dynamic meters) of the 100 decibar surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14-28 August 1969.....	10
4. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969.....	11
5. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969.....	12
6. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 26 to 33, 26 August 1969.....	13
7. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 26 to 33, 26 August 1969.....	14
8. Vertical distribution of dissolved oxygen (ml/l), CGC SOUTHWIND stations 26 to 33, 26 August 1969.....	15
9. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.....	16
10. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.....	17
11. Horizontal distribution of temperature (°C) at the sea surface, CGC SOUTHWIND survey 14-28 August 1969.....	18
12. Horizontal distribution of temperature (°C) at the 100 meter level, CGC SOUTHWIND survey 14-28 August 1969.....	19
13. Horizontal distribution of salinity (‰) at the sea surface, CGC SOUTHWIND survey 14-28 August 1969.....	20
14. Horizontal distribution of salinity (‰) at the 100 meter surface, CGC SOUTHWIND survey 14-28 August 1969.....	21

Oceanographic Conditions in the Melville-Carey Islands Region, Northern Baffin Bay, 17 September-2 October 1969

1. Cruise track of CGC WESTWIND. First leg, showing stations and sections....	25
2. Cruise track of CGC WESTWIND. Second leg, showing stations and sections.....	25
3. Vertical distribution of temperature (°C), Section A.....	26
4. Vertical distribution of salinity (‰), Section A.....	26
5. Vertical distribution of temperature (°C), Section B.....	27
6. Vertical distribution of salinity (‰), Section B.....	28
7. Vertical distribution of temperature (°C), Section C.....	29
8. Vertical distribution of salinity (‰), Section C.....	30
9. Vertical distribution of temperature (°C), Section D.....	31
10. Vertical distribution of salinity (‰), Section D.....	32
11. Vertical distribution of temperature (°C), Section E.....	33
12. Vertical distribution of salinity (‰), Section E.....	33
13. Vertical distribution of temperature (°C), Section F.....	34
14. Vertical distribution of salinity (‰), Section F.....	35
15. Vertical distribution of temperature (°C), Section G.....	36
16. Vertical distribution of salinity (‰), Section G.....	36
17. Vertical distribution of temperature (°C), Section H.....	37
18. Vertical distribution of salinity (‰), Section H.....	37
19. Vertical distribution of temperature (°C), Section I.....	38
20. Vertical distribution of salinity (‰), Section I.....	38
21. Vertical distribution of temperature (°C), Section J.....	39
22. Vertical distribution of salinity (‰), Section J.....	39

Figure	Page
23. Vertical distribution of temperature ($^{\circ}\text{C}$), Section K.....	40
24. Vertical distribution of salinity ($^{\circ}/_{\infty}$), Section K.....	40
25. Vertical distribution of temperature ($^{\circ}\text{C}$), Section L.....	41
26. Vertical distribution of salinity ($^{\circ}/_{\infty}$), Section L.....	41
27. Vertical distribution of temperature ($^{\circ}\text{C}$), Section M.....	42
28. Vertical distribution of salinity ($^{\circ}/_{\infty}$), Section M.....	42
29. Vertical distribution of temperature ($^{\circ}\text{C}$), Section N.....	43
30. Vertical distribution of salinity ($^{\circ}/_{\infty}$), Section N.....	43
31. Vertical distribution of temperature ($^{\circ}\text{C}$), Section O.....	44
32. Vertical distribution of salinity ($^{\circ}/_{\infty}$), Section O.....	45
33. Temperature-salinity curves for the areas indicated on Figure 34.....	46
34. Temperature on the 27.5 sigma-t surface, with contour interval of 0.25°C . Numbered areas delineated by dashed lines are represented by correspond- ingly numbered temperature-salinity curves in Figure 33.....	47
35. Dynamic topographies of the sea surface relative to 400 db, with contour interval of 2 dyn. cm. Dotted line is the 250 m isobath.....	48

PREFACE

This report is a presentation of the oceanographic data collected by scientists from the University of Washington and the Coast Guard Oceanographic Unit during cruises on the U.S. Coast Guard icebreakers CGC SOUTHWIND and CGC WESTWIND in Baffin Bay and from a station on the ice in Kane Basin. These cruises and this report are part of the U.S. Coast Guard support of the Baffin Bay-North Water project of the Arctic Institute of North America. The area surveyed consisted of Kane Basin and northern and northeastern Baffin Bay. Data discussed in this report include physical and chemical observations in these areas.

OCEANOGRAPHIC CONDITIONS AT A FIXED LOCATION IN WESTERN KANE BASIN, MAY 1969

by

ROBIN D. MUENCH¹

From 3 to 20 May 1969 a three man scientific party carried out an oceanographic sampling program from a fixed position (79°16'N, 72°48' W) on the fast ice in western Kane Basin (fig. 1). Sampling was conducted by Eddy Carmack and James Overland, both from the University of Washington, and Gordon Tidmarsh from McGill University. The project was carried out under the auspices of the Arctic Institute of North America's Baffin Bay-North Water Project, with logistical support provided by the Canadian Polar Continental Shelf Project. The details of the field work have been discussed by Tidmarsh, *et al.* (1969).

Scientific features and problems in the Northern Baffin Bay region have been summarized by Muench (1971). The purpose of the Kane Basin field program was to:

- a. Determine the vertical temperature and salinity structures of the water column at a time of year when late winter (i.e., premelt) conditions were prevalent;

- b. Attempt detection of south-flowing Arctic Ocean Water of the proper type to contribute to Baffin Bay Bottom Water; and

- c. Obtain a series of current measurements to define the flow through Kane Basin.

The sampling was conducted in approximately the deepest portion of the channel (fig. 1). Depth at the station position was determined by lead line to be 237 m. Three stations per day were taken at fixed hours; a fourth was taken at a random time to reduce the effects of periodic phenomena (e.g., tidal and inertial) on the samples. Water samples were acquired from seven depths except for two stations (32 and 42); samples at these two stations were taken at 10-m intervals to detect fine structure in the water column. Standard Nansen bottles were used in obtaining samples.

Temperatures were read from reversing thermometers supplied by the University of Washington. Strong ambient temperature gradients inside the tent (which served as a laboratory) made it difficult to obtain agreement between the two thermometers on any one bottle. The temperature accuracy is estimated to be $\pm 0.03^\circ\text{C}$. Salinity samples were decanted into polyethylene bottles and returned to the University of Washington for analysis. The salinities are accurate to $\pm 0.02\%$.

Two Braincon Model 381 recording current meters were suspended through the ice at 50 to 150 m depths from 5 to 20 May. The deeper meter malfunctioned and yielded no data, while the shallower meter yielded a complete record. Speeds are estimated to be accurate to $\pm 3\%$ of the measured values, while directions are accurate only to about $\pm 20^\circ$ due to the weak horizontal magnetic field in the survey area.

The hydrographic results (fig. 2) indicated that time-dependent changes in the water column were negligible over the measurement period. A nearly homogeneous layer, characterized by frequent 0.02 to 0.03°C supercooling, extended from the surface down to 50 m. Temperature was assumed to be a more reliable indicator of downward convection than salinity (Aagaard and Coachman, 1968) and suggested downward convection to 100 m, below which strong thermo- and haloclines occurred down to 200 m. No water of the proper type to contribute to Baffin Bay Bottom Water (-0.38 to -0.40°C , 34.48 to 34.50‰) was detected.

The measured currents are summarized in the form of speed and direction histograms (fig. 3). The complete set of current measurements was too long for inclusion in this report, but may be obtained from the Department of Oceanography, University of Washington.

The directions were bimodal, with a general southward (about 220° T) flow and less frequent

¹ University of Washington. Present address: Institute of Marine Science, University of Alaska, College, Alaska 99701.

northward (about 360° T) flow. Some northwestward (270 -to- 360° T) flow occurred, but little eastward (90° T) flow was evident. The individual data points indicated that flow reversals coincided with the diurnal tidal currents.

Speeds were generally below 25 cm/sec, and much of the record showed no detectable motion. A small peak on the speed histogram at about 8 cm/sec is of unknown cause. It is concluded that a sluggish net southward flow was occurring, with occasional reversals leading to northward flow.

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FIGURE 1. Geographical position of the ice camp from which oceanographic stations were occupied and current measurements made in May 1969. The dotted line indicates the 100 fm isobath (from Canadian Hydrographic Office Chart No. 7000).

FIGURE 2. Envelopes of the vertical distributions of temperature and salinity observed in western Kane Basin during May 1969.

FIGURE 3. Histograms of current speed and direction at 50 m depth in western Kane Basin during May 1969.

OCEANOGRAPHIC CONDITIONS IN NORTHEASTERN BAFFIN BAY DURING AUGUST 1969

by

MARTIN J. MOYNIHAN¹

INTRODUCTION

The USCGC SOUTHWIND occupied thirty-six oceanographic stations in the waters of central and northeastern Baffin Bay from 14 to 28 August 1969 as part of the International Ice Patrol's West Greenland Glacier and Oceanographic Survey (fig. 1). This survey was part of a multiyear project to investigate the tidewater glaciers and oceanographic conditions along the western coast of Greenland to determine the differences between existing conditions and historical data as related to the origin and drift of icebergs (Moynihan, et al., 1970).

Temperature data and water samples were collected by Nansen casts. The resulting water samples were analyzed for salinity and oxygen concentrations on board the USCGC SOUTHWIND. Salinity was determined on board using an inductive salinometer. The conductivity values obtained were converted to salinity by use of the International Oceanographic Tables published jointly by UNESCO and the National Institute of Oceanography of Great Britain (1966). Dissolved oxygen concentrations were determined by the modified Winkler Method as described by Strickland and Parsons (1968). The resulting data were processed later at the Coast Guard Oceanographic Unit with a PDP-5 computer.

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer listings from the National Oceanographic Data Center (Cruise Number 31-1529). Anomalies of dynamic height in the listings were computed by NODC; but all discussion of dynamic heights in this text are based on computations made at the Coast Guard Oceanographic Unit.

In addition, grab samples and cores of bottom sediments were obtained with an orange peel grab and Phleger corer at selected stations in the fjords seaward of glacier termini. The collection of these samples was supervised by U. S. Naval Oceanographic Office personnel. A preliminary analysis was conducted by Achstetter, et al. (1970), and the remaining material is presently held at the Geological Laboratory of the Naval Oceanographic Office.

DISCUSSION

The circulation of Baffin Bay plays an important role in the drift of icebergs from their parent glaciers on the western coast of Greenland to the North Atlantic shipping lanes off the Grand Banks. Smith (1931), Hawley, et al. (1941), and Dunbar (1951) described a cyclonic circulation of water in Baffin Bay and a similar drift of icebergs. West Greenland Current Water enters from the southeast through Davis Strait and water of polar origin enters from the northwest through Lancaster, Jones and Smith Sounds. The southward flowing Baffin Land Current along Baffin Island and recirculation of some West Greenland Current Water through the western side of Davis Strait account for the outflow of water from Baffin Bay.

Charts of dynamic topography (figs. 2 and 3) prepared from the USCGC SOUTHWIND's survey were used to depict the current patterns in this area. A weak northward flowing current was found near the Greenland coast and the general southeastward drift found offshore is believed to be the extreme eastern portion of the Baffin Land Current.

Remnants of the West Greenland Current were found in the warm, saline ($>1.0^{\circ}\text{C}$, $>34.4\%$) layer between 250 and 800 meters on all sections. A core of warm, high salinity water ($>2.0^{\circ}\text{C}$, $>34.5\%$) between stations 27 and 32 (figs. 6 and 7)

¹ U.S. Coast Guard Oceanographic Unit, Bldg. 159-E, Washington Navy Yard, Washington, D.C. 20390.

appears to be part of a pool of West Greenland Current Water over the wide shelf in northeastern Baffin Bay. It was larger than a similar core found to the south at stations 18 and 19 (figs. 4 and 5). The core of West Greenland Current Water also was associated with high concentrations of dissolved oxygen (5.8 to 6.5 ml/l, fig. 7).

Water of polar origin ($>0^{\circ}\text{C}$, 32.0–34.0‰), found in the upper 250 meters of stations 18 through 26 (figs. 4, 5, 9 and 10), made up the southeastward drift detected in the dynamic topography. Baffin Bay Deep Water ($<-0.5^{\circ}\text{C}$, 34.40–34.45‰), was found below 1250 meters on these stations. Bailey (1956) concluded that this water originates in the Arctic Ocean at depths of about 250 meters, flows into the Baffin Bay through Smith Sound and sinks to depths between 1250 and 2100 meters.

The effect of solar heating and melting of sea ice was noticeable during this summer survey as indicated by temperatures of $>0.0^{\circ}\text{C}$ and salinities of $<32.0\text{‰}$ found in the near surface water (figs. 11 and 13). The influence of runoff is evidenced by the low salinities ($<30.0\text{‰}$) and high dissolved oxygen (>9 ml/l, Appendix A) found at the surface along the coast.

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FIGURE 1. Positions of CGC SOUTHWIND stations 1-36, 14-28 August 1969 and locations of tidewater glaciers in Northeastern Baffin Bay.

FIGURE 2. Dynamic topography (dynamic meters) of the sea surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14-28 August 1969.

FIGURE 3. Dynamic topography (dynamic meters) of the 100 decibar surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14-28 August 1969.

FIGURE 4. Vertical distribution of temperature ($^{\circ}\text{C}$), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969.

FIGURE 5. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969. Contour interval 0.5‰ above 33‰ and 3‰ below 33‰.

FIGURE 6. Vertical distribution of temperature ($^{\circ}\text{C}$), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

FIGURE 7. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

FIGURE 8. Vertical distribution of dissolved oxygen (ml/l), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

FIGURE 9. Vertical distribution of temperature ($^{\circ}\text{C}$), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.

FIGURE 10. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.

FIGURE 11. Horizontal distribution of temperature (°C) at the sea surface, CGC SOUTHWIND survey 14–28 August 1969.

FIGURE 12. Horizontal distribution of temperature ($^{\circ}\text{C}$) at the 100 meter level, CGC SOUTHWIND survey 14-28 August 1969.

FIGURE 13. Horizontal distribution of salinity (‰) at the sea surface, CGC SOUTHWIND survey 14–28 August 1969.

FIGURE 14. Horizontal distribution of salinity (‰) at the 100 meter surface, CGC SOUTHWIND survey 14-28 August 1969.

OCEANOGRAPHIC CONDITIONS IN THE MELVILLE BAY-CAREY ISLANDS REGION, NORTHERN BAFFIN BAY, 17 SEPTEMBER-2 OCTOBER 1969

by

ROBIN D. MUENCH¹

INTRODUCTION

An oceanographic survey was carried out from the CGC WESTWIND in the Melville Bay-Carey Islands region of northern Baffin Bay from 17 September-2 October 1969 (figs. 1 and 2). This survey was carried out under the auspices of the Baffin Bay-North Water Project, coordinated by the Arctic Institute of North America and cooperative among groups from the University of Washington, the United States Coast Guard, McGill University and Dartmouth College.

The oceanography of northern Baffin Bay has been discussed by Muench (1971). The 1969 survey was designed to investigate this region by continuing, to the southeast, the detailed survey carried out farther north in 1968 (Muench, et al., 1971). The placement of current meters, designed to be retrieved the following summer, in Smith Sound was an attempt to obtain winter current data.

SAMPLING PROGRAM

On 17 September 1969 the scientific field party boarded the CGC WESTWIND at Thule, Greenland. These personnel included Robin D. Muench, Jerry A. Galt, Rick Avis and Joseph Karpen, all from the University of Washington, and Gordon Tidmarsh from McGill University. The CGC WESTWIND was commanded by Capt. J. S. Thuma, United States Coast Guard.

Two Geodyne Model 850 recording current meters were moored in north central Smith Sound (78°30.6'N, 73°51.0'W) on 20 September. This array was designed to be retrieved by means of an acoustic release during summer 1970. Two recording current meters were moored later on the same date at each of the indicated locations south

of Cape York (fig. 1) and were retrieved on 2 October.

On 21-25 September, stations 1-48 and 00A-00D were occupied, after which foul weather dictated a retreat into Thule. A loss of LORAN coverage necessitated determining the positions of stations 00A-00D by dead reckoning, so that the positions of these stations are considered less reliable than those of other stations. Stations 49-90 were occupied on 27 September-2 October.

DATA ANALYSIS

The oceanographic data were obtained using a Bissett-Berman Model 9060 self-contained salinity/temperature/depth recording unit (STD). The instrument was used as supplied directly from the factory, where it had been calibrated. It had been intended to place two Nansen bottles on every cast to check temperatures, salinities and depths from the STD, but lack of a shipboard salinometer precluded this. Twenty samples were obtained, using Nansen bottles, for calibration purposes. The temperatures were read using reversing thermometers, and samples were returned to the University of Washington for salinity determination.

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

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

The STD used (serial number 5418) had a tendency to record salinities 0.05 to 0.10‰ too high at depths between 500 and 1000 m, the error increasing with depth. Shallower than 500 m, the salinity accuracy was within the advertised specifications. No errors were detected in temperature or depth readings.

¹ University of Washington. Present address: Institute of Marine Science, University of Alaska, College, Alaska 99701.

The oceanographic station data were compiled by visual digitization of the analog chart output from the STD at standard depths. Salinities below 500 m were corrected with the aid of a calibration curve constructed using salinities from the Nansen bottle samples. The final data are accurate to within the advertised specifications.

Two Braincon Model 381 and two Geodyne Model 850 recording current meters were moored south of Cape York using the mooring configuration and method described previously (Muench, et al., 1971). None of these meters yielded reliable data. Two of them (one of each type) yielded no data at all, while the other two suffered malfunctions which destroyed the time base for the recorded data.

OCEANOGRAPHIC RESULTS

The oceanographic results are presented as:

- a. Vertical sections showing temperature and salinity distributions (figs. 3–32), constructed directly from the STD vertical profiles;
- b. Temperature-salinity curves (fig. 33);
- c. Isentropic diagrams (fig. 34);
- d. Dynamic topographies (fig. 35); and
- e. Station data listed in standard format (Appendix A).

The region from Melville Bay to the section southwest of Cape Dudley Digges (figs. 3–18; areas 1 and 3, fig. 33) contained a warm ($>0^{\circ}\text{C}$), saline ($>34.4\%$) layer at 300–400 m depth and a colder ($<0^{\circ}\text{C}$), less saline ($<33.7\%$) layer 50–100 m deep. The warm layer cannot have originated in the Arctic Ocean, due to its low salinity relative to that of Arctic Ocean Water of the same temperature (Muench, 1971), and therefore is Baffin Bay Atlantic Water which originated south of Davis Strait. The cold, shallow layer is a remnant of the preceding winter's convective layer within Baffin Bay, and is part of the Baffin Bay Arctic Water (Muench, 1971).

Water in southwestern Smith Sound (stations 54–55, figs. 31–32; area 2, fig. 33) was characterized by uniformly low temperatures ($<0^{\circ}\text{C}$) and salinities ($<34.3\%$). These low temperatures and salinities, coupled with a known net southward transport through Smith Sound (Muench, 1971), suggest that this water originated in the Arctic Ocean.

The water masses in the remaining areas (figs. 19–30; areas 4–5, fig. 33) had temperatures and salinities intermediate between those of the Baffin

Bay Atlantic and Arctic waters and the water of Arctic Ocean origin from Smith Sound and therefore were mixtures of the three masses. Data from other years also suggest that the northern Baffin Bay region is a primary site of mixing between these water masses (Muench, 1971).

A restricted area west of Cape York (stations 44 and 76, figs. 19–22) exhibited a breakdown in vertical temperature structure. This area was also characterized by relatively high surface salinities ($>33\%$). These anomalous features of the temperature and salinity distribution were not observed during other years.

The temperature distribution on the $\sigma_t=27.5$ surface (fig. 34) corroborated the contention that water from the relatively warm Baffin Bay Atlantic Water layer was the cause of the temperature maximum ($>2^{\circ}\text{C}$) in Melville Bay. This warm water extended westward past Cape York and then northward as a tongue east of the Carey Islands. The Baffin Bay Atlantic Water, which had been modified by admixture of Arctic Ocean Water from Smith Sound, was characterized by lower temperatures ($<1.5^{\circ}\text{C}$). This occurred on 21–25 September as a southeasterly-trending tongue south of the Carey Islands which appeared, by 27 September–2 October, to be detaching to form a “blob” (fig. 34).

The baroclinic circulation may be estimated from the slopes of the isohalines on vertical salinity distributions, because they indicate the internal mass distribution in cold water, but this circulation is more clearly indicated by dynamic topographies (fig. 35). Prominent features observed in the circulation were the westward to northward coastal current from off Cape York to east of the Carey Islands, and the southward flow west of the islands. This general circulation pattern appears to be common here (Muench, 1971). The complex cyclonic circulation shown south of the Carey Islands may not be real, because of the relative inaccuracy of the temperature and salinity measurements on which the dynamic computations were based. The countercurrent between the two westernmost stations west of the Carey Islands was defined only by those two stations; since such a feature has never before been observed there, it should be regarded with skepticism.

A high concentration of icebergs along the coast northwest of Cape York during the observation period suggested the presence there of a northwestward coastal surface current. A southward extend-

ing "plume" of icebergs south of Cape York also suggested a southward surface current there coincident with the southern arm of the anticyclonic meander indicated by the 34 dyn cm isoline (fig. 35, upper). The westward tongue-like extension of Baffin Bay Atlantic Water south of Cape York (fig. 34, upper) suggested a westward current at that depth (400 m).

The westward and northward coastal currents off Cape York appeared to be related to the presence of an overlying near-surface wedge of relatively low salinity (generally $<32.5\%$, but occasionally $<30\%$) water (figs. 4, 6, 8, 10, 14, 19, 26, 30, and 32). This wedge has been suggested by Muench (1971) to be due to runoff from the western Greenland near-coastal ablation zone. The southward current west of the Carey Islands was part of the well documented net southward flow through Smith Sound, farther to the north.

The 1969 data clarified the temperature and salinity distributions and circulation in northern Baffin Bay from the Carey Islands to Melville Bay. The features observed were similar to those observed in previous years. Failure of the moored current meters precluded comparisons between baroclonic and total currents.

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FIGURE 1. Cruise track of CGC WESTWIND. First leg, showing stations and sections.

FIGURE 2. Cruise track of CGC WESTWIND. Second leg, showing stations and sections.

FIGURE 3. Vertical distribution of temperature ($^{\circ}\text{C}$), Section A.

FIGURE 4. Vertical distribution of salinity (‰), Section A.

FIGURE 5. Vertical distribution of temperature ($^{\circ}\text{C}$), Section B.

FIGURE 6. Vertical distribution of salinity (‰), Section B.

FIGURE 7. Vertical distribution of temperature (°C), Section C.

FIGURE 8. Vertical distribution of salinity (‰), Section C.

FIGURE 9. Vertical distribution of temperature ($^{\circ}\text{C}$), Section D.

FIGURE 10. Vertical distribution of salinity (‰), Section D.

FIGURE 11. Vertical distribution of temperature ($^{\circ}\text{C}$), Section E.

FIGURE 12. Vertical distribution of salinity (‰), Section E.

FIGURE 13. Vertical distribution of temperature ($^{\circ}\text{C}$), Section F.

FIGURE 14. Vertical distribution of salinity (‰), Section F.

FIGURE 15. Vertical distribution of temperature ($^{\circ}\text{C}$), Section G.

FIGURE 16. Vertical distribution of salinity (‰), Section G.

FIGURE 17. Vertical distribution of temperature ($^{\circ}\text{C}$), Section H.

FIGURE 18. Vertical distribution of salinity (‰), Section H.

FIGURE 19. Vertical distribution of temperature ($^{\circ}\text{C}$), Section I.

FIGURE 20. Vertical distribution of salinity (‰), Section I.

FIGURE 21. Vertical distribution of temperature ($^{\circ}\text{C}$), Section J.

FIGURE 22. Vertical distribution of salinity (‰), Section J.

FIGURE 23. Vertical distribution of temperature ($^{\circ}\text{C}$), Section K.

FIGURE 24. Vertical distribution of salinity (‰), Section K.

FIGURE 25. Vertical distribution of temperature ($^{\circ}\text{C}$), Section L.

FIGURE 26. Vertical distribution of salinity (‰), Section L.

FIGURE 27. Vertical distribution of temperature ($^{\circ}\text{C}$), Section M.

FIGURE 28. Vertical distribution of salinity (‰), Section M.

FIGURE 29. Vertical distribution of temperature ($^{\circ}\text{C}$), Section N.

FIGURE 30. Vertical distribution of salinity (‰), Section N.

FIGURE 31. Vertical distribution of temperature (°C), Section O.

FIGURE 32. Vertical distribution of salinity (‰), Section O.

FIGURE 33. Temperature-salinity curves for the areas indicated on Figure 34.

FIGURE 34. Temperature on the 27.5 sigma-t surface, with contour interval of 0.25°C. Numbered areas delineated by dashed lines are represented by correspondingly numbered temperature-salinity curves in Figure 33. Shaded area represents intersection of sigma-t surface with the bottom.

FIGURE 35. Dynamic topographies of the surface relative to 400 db, with contour interval of 2 dyn cm. Dotted line is the 250 m isobath.

APPENDIX A

OCEANOGRAPHIC DATA

Cruises Listed

Table I—University of Washington, May 1969

Table II—USCGC SOUTHWIND, August 1969

Table III—USCGC WESTWIND, September–October 1969

Codes Utilized

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

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

Depth to bottom.....	Corrected or uncorrected sounding in meters.
Max. depth of samples.....	Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations:	
DIR.....	Rounded to nearest multiple of ten degrees.
HGT.....	In increments of $\frac{1}{2}$ m. Sum of 5 meters plus increments of $\frac{1}{2}$ m if 50 is added to direction.
PER.....	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or $2 \times$ (numeric entry) + 1. For other entries see WMO Code 3155.
SEA.....	Sea state according to WMO Code 3700.
Weather code.....	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud code:	
Type.....	Cloud type according to WMO Code 0500.
Amount.....	Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water:	
Color code.....	Color according to Forel-Ule scale.
Trans.....	Transparency in whole meters as determined by Secchi disc.
Wind:	
Dir.....	Rounded to nearest multiple of ten degrees.
Speed or force.....	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.
Barometer.....	Barometric pressure given in tens, units and tenths of millibars.
Air temp., °C.....	Air temperature to tenths of a degree centigrade.
Vis. code.....	Visibility according to WMO Code 4300.
No. obs. depths.....	Number of observed levels associated with the station.
Messenger time.....	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type.....	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m).....	Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T °C.....	Temperature to hundredths of a degree Centigrade.
S ‰.....	Salinity in parts-per-thousand.
SIGMA-T.....	Entered to hundredths.
Specific-volume.....	Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.

Anomaly—X 10 ⁷	
ΣΔD Dyn. M. X 10 ³ -----	Multiply entry by 10 ⁻³ to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.
Sound velocity-----	Sound velocity according to Wilson's formula entered to tenths of a meter persecond.
O ₂ ml/l-----	Dissolved oxygen in milliliters per liter entered to hundredths.
PO ₄ —P μg-at/l-----	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total-P μg-at/l-----	Total phosphorus in microgram-atoms per liter entered to hundredths.
NO ₂ -N μg-at/l-----	Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO ₃ -N μg-at/l-----	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si μg-at/l-----	Silicate-silicon in microgram-atoms per liter entered to whole units.
pH-----	Entered to hundredths.

TABLE I. Observed and interpolated oceanographic data from stations taken from an ice camp in Kane Basin, 7-20 May 1969, prepared from NODC Listing No. 31-1506.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	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
311506			79160N	072480W	260	92	05 07 208	1969	KB2	001	0237							0		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									
									00	500	230		8	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SC		
208		OBS	0025	-0176	32751	2637					14384										
		STD	0030	-0178	3275	2637	0016575				14383										
		STD	0050	-0180	3275	2638	0016539				14386										
208		OBS	0050	-0180	32754	2638					14386										
		STD	0075	-0174	3290	2649	0015447				14395										
208		OBS	0075	-0174	32895	2649					14395										
		STD	0100	-0160	3304	2661	0014324				14408										
208		OBS	0100	-0160	33043	2661					14408										
		STD	0125	-0102	3331	2681	0012438				14443										
		STD	0150	-0062	3362	2704	0010197				14470										
208		OBS	0150	-0062	33622	2704					14470										
		STD	0200	-0037	3442	2768	0004232				14501										
208		OBS	0200	-0037	34418	2768					14501										
208		OBS	0230	-0015	34563	2778					14518										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	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
311506			79160N	072480W	260	92	05 08 042	1969	KB2	002	0237							28	8	0002	
						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									
									00	500	224	-170	2	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SC		
042		OBS	0025	-0175	32751	2637					14384										
		STD	0030	-0176	3275	2637	0016618				14384										
		STD	0050	-0177	3273	2636	0016729				14387										
042		OBS	0050	-0177	32730	2636					14387										
		STD	0075	-0171	3289	2648	0015523				14396										
042		OBS	0075	-0171	32886	2648					14396										
		STD	0100	-0156	3286	2646	0015715				14407										
042		OBS	0100	-0156	32863	2646					14407										
		STD	0125	-0106	3364	2707	0009900				14446										
		STD	0150	-0069	3417	2749	0005979				14474										
042		OBS	0150	-0069	34171	2749					14474										
		STD	0200	-0032	3447	2771	0003899				14504										
042		OBS	0200	-0032	34465	2771					14504										
042		OBS	0230	-0016	34523	2775					14517										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	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
311506			79160N	072480W	260	92	05 08 129	1969	KB2	003	0237							9		0003	
						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									
									00	500	230	-110	5	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SC		
129		OBS	0025	-0160	32731	2635					14391										
		STD	0030	-0161	3273	2635	0016780				14391										
		STD	0050	-0162	3273	2635	0016792				14394										
129		OBS	0050	-0162	32726	2635					14394										
		STD	0075	-0160	3283	2644	0015948				14401										
129		OBS	0075	-0160	32834	2644					14401										
		STD	0100	-0155	3303	2660	0014414				14410										
129		OBS	0100	-0155	33033	2660					14410										
		STD	0125	-0094	3376	2717	0009027				14453										
		STD	0150	-0052	3424	2754	0005535				14483										
129		OBS	0150	-0052	34239	2754					14483										
		STD	0200	-0029	3446	2771	0003921				14505										
129		OBS	0200	-0029	34464	2771					14505										
129		OBS	0230	-0003	34538	2776					14523										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER 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	
311506			79160N	072480W	260	92	05	08	201	1969		K82	004	0237						3		0004
						WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
									28	S02	220	-040			07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	NOOC STATION NUMBER					
201		OBS	0025	-0180	3274.3	2637			14382													
		STD	0030	-0180	3275	2638	0016571		14382													
		STD	0050	-0181	3279	2640	0016275		14386													
201		OBS	0050	-0181																		
		STD	0075	-0175	3283	2644	0015921		14393													
201		OBS	0075	-0175	3283.3	2644			14393													
		STD	0100	-0169	3302	2659	0014486		14403													
201		OBS	0100	-0169	3301.9	2659			14403													
		STD	0125	-0116	3372	2714	0009253		14442													
		STD	0150	-0074	3421	2752	0005698		14473													
201		OBS	0150	-0074	3420.5	2752			14473													
		STD	0200	-0025	3450	2774	0003675		14508													
201		OBS	0200	-0025	3449.9	2774			14508													
201		OBS	0230	-0018	3456.0	2778			14517													

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER 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
311506			79160N	072480W	260	92	05	09	025	1969		K82	005	0237						1		0005	
						WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									30	S01	224	-122			8	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	NOOC STATION NUMBER						
025		OBS	0025	-0181	3273.0	2636			14381														
		STD	0030	-0181	3273	2636	0016761		14382														
		STD	0050	-0181	3272	2635	0016829		14385														
025		OBS	0050	-0181	3271.6	2635			14385														
		STD	0075	-0173	3287	2647	0015626		14395														
025		OBS	0075	-0173	3287.2	2647			14395														
		STD	0100	-0169	3298	2656	0014770		14403														
025		OBS	0100	-0169	3298.2	2656			14403														
		STD	0125	-0099	3377	2718	0008932		14451														
		STD	0150	-0052	3424	2754	0005558		14483														
025		OBS	0150	-0052	3423.6	2754			14483														
		STD	0200	-0027	3421	2750	0005894		14503														
025		OBS	0200	-0027	3420.6	2750			14503														
025		OBS	0230	-0011	3457.1	2779			14520														

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER 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
311506			79160N	072480W	260	92	05	09	041	1969		K82	006	0237					28	1		0006	
						WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									30	S01	224	-122			2	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	NOOC STATION NUMBER						
042		OBS	0025	-0182	3270.0	2633			14380														
		STD	0030	-0182	3271	2634	0016929		14381														
		STD	0050	-0182	3273	2636	0016742		14384														
042		OBS	0050	-0182	3272.7	2636			14384														
		STD	0075	-0175	3289	2649	0015452		14394														
042		OBS	0075	-0175	3289.4	2649			14394														
		STD	0100	-0170	3298	2656	0014799		14402														
042		OBS	0100	-0170	3297.8	2656			14402														
		STD	0125	-0101	3377	2718	0008924		14450														
		STD	0150	-0054	3428	2757	0005221		14483														
042		OBS	0150	-0054	3427.9	2757			14483														
		STD	0200	-0027	3446	2770	0003969		14506														
042		OBS	0200	-0027	3445.9	2770			14506														
042		OBS	0230	-0016	3454.0	2776			14517														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT INDIC	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DR.		HGT	PER	
311506			79160N	072480W		260	92 05 09	128	1969	KB2 007		0237					43	X 19		0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB								
								00	500	237	-081		5		07					

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C

128	OBS	0025	-0182	32727	2636				14380
	STD	0030	-0182	3272	2635	0016783			14381
	STD	0050	-0181	3271	2634	0016875			14385
128	OBS	0050	-0181	32710	2634				14385
	STD	0075	-0173	3281	2642	0016125			14394
	STD	0100	-0173	32807	2642				14394
128	OBS	0100	-0151	3303	2659	0014463			14412
	STD	0125	-0151	33028	2659				14412
	STD	0150	-0110	3358	2703	0010345			14443
	STD	0150	-0076	3400	2735	0007285			14469
128	OBS	0150	-0076	33996	2735				14469
	STD	0200	-0027	3442	2767	0004274			14506
	STD	0200	-0027	34419	2767				14506
128	OBS	0200	-0027	34419	2767				14506
128	OBS	0230	-0017	34561	2778				14517

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC	STATION SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DR.	HGT		PER	SEA	
311506			79160N	072480W	260	92	05	09	200	1969	KB2	008	0237							1	0008
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB								
									00	500	230	060	8		07						

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C

200	OBS	0025	-0176	32733	2636				14383
	STD	0030	-0176	3273	2636	0016718			14384
	STD	0050	-0176	3274	2636	0016685			14387
200	OBS	0050	-0176	32736	2636				14387
	STD	0075	-0173	3282	2643	0016048			14394
	STD	0100	-0173	32817	2643				14394
200	OBS	0100	-0160	3298	2655	0014815			14407
	STD	0125	-0160	32979	2655				14407
	STD	0150	-0119	3362	2706	0010008			14439
	STD	0150	-0083	3409	2743	0006508			14467
200	OBS	0150	-0083	34094	2743				14467
	STD	0200	-0024	3452	2775	0003506			14508
	STD	0200	-0024	34522	2775				14508
200	OBS	0235	-0014	34566	2778				14519

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT. INDIC	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- TH- ER CODE	CLOUD CODES		NOOC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05 09	221	1969	KB2 009	0237							4		0009	
						WATER		WIND		AIR TEMP. °C											
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	BARO- METER (mbars)	DRY BULB	WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
									00	500	261	-067	8	07							

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C

221	OBS	0025	-0182	32723	2635				14380
	STD	0030	-0182	3272	2635	0016799			14381
	STD	0050	-0180	3272	2635	0016800			14385
221	OBS	0050	-0180	32720	2635				14385
	STD	0075	-0172	3277	2639	0016411			14394
	STD	0100	-0172						
221	OBS	0100	-0157	3301	2658	0014554			14409
	STD	0125	-0157	33014	2658				14409
	STD	0150	-0118	3364	2708	0009859			14440
	STD	0150	-0082	3409	2743	0006520			14467
221	OBS	0150	-0082	34093	2743				14467
	STD	0200	-0022	3449	2773	0003759			14509
	STD	0200	-0022	34490	2773				14509
221	OBS	0235	-0013	34580	2779				14520

TABLE I.—Continued

REFERENCE CITY CODE	SHIP NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	1/2° SOEN 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	

MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	COND.
044		OBS	0025	-0179	32737	2636			14382								
		STD	0030	-0179	3274	2636	0016696		14383								
		STD	0050	-0179	3273	2636	0016725		14386								
044		OBS	0050	-0179	32730	2636			14386								
		STD	0075	-0169	3286	2646	0015727		14397								
044		OBS	0075	-0169	32860	2646			14397								
		STD	0100	-0161	3296	2654	0014959		14406								
044		OBS	0100	-0161	32960	2654			14406								
		STD	0125	-0094	3371	2713	0009409		14452								
		STD	0150	-0047	3423	2753	0005649		14485								
044		OBS	0150	-0047	34227	2753			14485								
		STD	0200	-0014	3457	2779	0003170		14514								
044		OBS	0200	-0014	34573	2779			14514								
044		OBS	0235	-0008	34611	2782			14523								

REFERENCE CITY CODE	SHIP NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	1/2° SOEN 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	

311506																	
79160N 072480W 260 92 05 10 126 1969 KB2 011 0237																	
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																	
00 500 288 -090 7 07																	
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	COND.
124		OBS	0025	-0186	32712	2634			14378								
		STD	0030	-0184	3264	2629	0017425		14379								
		STD	0050	-0178	3254	2620	0018180		14384								
124		OBS	0050	-0178	32541	2620			14384								
		STD	0075	-0172	3280	2642	0016150		14394								
124		OBS	0075	-0172	32804	2642			14394								
		STD	0100	-0160	3294	2653	0015092		14406								
124		OBS	0100	-0160	32943	2653			14406								
		STD	0125	-0091	3369	2711	0009573		14453								
		STD	0150	-0043	3421	2751	0005767		14487								
124		OBS	0150	-0043	34214	2751			14487								
		STD	0200	-0009	3462	2782	0002861		14517								
124		OBS	0200	-0009	34617	2782			14517								
124		OBS	0235	-0007	34615	2782			14523								

REFERENCE CITY CODE	SHIP NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	1/2° SOEN 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	

MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH
166		OBS	0025	-0173	32714	2634			14384							
		STD	0030	-0176	3272	2634	0016864		14384							
		STD	0050	-0179	3272	2635	0016802		14386							
166		OBS	0050	-0179	32720	2635			14386							
		STD	0075	-0168	3281	2642	0016129		14396							
166		OBS	0075	-0168	32808	2642			14396							
		STD	0100	-0164	3294	2652	0015105		14404							
166		OBS	0100	-0164	32940	2652			14404							
		STD	0125	-0095	3365	2708	0009864		14451							
		STD	0150	-0046	3417	2748	0006081		14485							
166		OBS	0150	-0046	34171	2748			14485							
		STD	0200	-0007	3462	2783	0002819		14518							
166		OBS	0200	-0007	34624	2783			14518							
166		OBS	0235	-0007	34620	2782			14523							

TABLE I.—Continued

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCHES	SCEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506		79160N	072480W	260	92	05	10	199	1969	KB2	013		0237					42	5		0013	
					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											
								06	505	288	-096		7	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NUMBER					
199	OBS	0025	-0181	32728	2636				14381													
	STD	0030	-0180	3273	2636		0016755		14382													
	STD	0050	-0178	3273	2636		0016727		14386													
199	OBS	0050	-0178	32730	2636				14386													
	STD	0075	-0168	3280	2641		0016205		14396													
199	OBS	0075	-0168	32798	2641				14396													
	STD	0100	-0162	3294	2652		0015133		14405													
199	OBS	0100	-0162	32937	2652				14405													
	STD	0125	-0094	3367	2709		0009714		14452													
	STD	0150	-0046	3419	2749		0005944		14485													
199	OBS	0150	-0046	34189	2749				14485													
	STD	0200	-0008	3461	2782		0002897		14517													
199	OBS	0200	-0008	34613	2782				14517													
199	OBS	0235	-0006	34625	2783				14524													

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCHES	SCEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506		79160N	072480W	260	92	05	11	042	1969	KB2	014		0237					42			0014
					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										
									288			4	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NUMBER				
042	OBS	0025	-0178	32721	2635				14382												
	STD	0030	-0179	3272	2635		0016788		14383												
	STD	0050	-0180	3274	2636		0016669		14386												
042	OBS	0050	-0180	32737	2636				14386												
	STD	0075	-0171	3285	2645		0015807		14396												
042	OBS	0075	-0171	32849	2645				14396												
	STD	0100	-0152	3304	2660		0014360		14411												
042	OBS	0100	-0152	33041	2660				14411												
	STD	0125	-0100	3378	2719		0008851		14450												
	STD	0150	-0060	3428	2758		0005172		14480												
042	OBS	0150	-0060	34282	2758				14480												
	STD	0200	-0015	3456	2778		0003233		14513												
042	OBS	0200	-0015	34564	2778				14513												
042	OBS	0235	-0008	34619	2782				14523												

REFERENCE CITY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCHES	SCEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506		79160N	072480W	260	92	05	11	121	1969	KB2	015		0237					43	8		0015	
					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											
									33	504	268	-110	5	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NUMBER					
121	OBS	0025	-0179	32721	2635				14382													
	STD	0030	-0180	3272	2635		0016810		14382													
	STD	0050	-0181	3272	2635		0016775		14385													
121	OBS	0050	-0181	32723	2635				14385													
	STD	0075	-0173	3280	2641		0016171		14394													
121	OBS	0075	-0173	32801	2641				14394													
	STD	0100	-0167	3295	2653		0015021		14403													
121	OBS	0100	-0167	32950	2653				14403													
	STD	0125	-0100	3363	2706		0009998		14448													
	STD	0150	-0052	3413	2745		0006381		14482													
121	OBS	0150	-0052	34128	2745				14482													
	STD	0200	-0011	3460	2781		0003011		14515													
121	OBS	0200	-0011	34596	2781				14515													
121	OBS	0235	-0007	34628	2783				14523													

TABLE I.—Continued

REFERENCE	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311506		79160N	072480W	260	92	05	11	200	1969	K82	016	0237					48	5		0016
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
					COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
							33	S04	257	-116			07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		Σ Δ O DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C C	
200	OBS	0025	-0178	32711	2634						14382									
	STD	0030	-0180	3271	2634					0016879	14382									
	STD	0050	-0182	3272	2635					0016835	14384									
200	OBS	0050	-0182	32715	2635						14384									
	STD	0075	-0171	3284	2645					0015853	14395									
200	OBS	0075	-0171	32843	2645						14395									
	STD	0100	-0160	3303	2659					0014447	14407									
200	OBS	0100	-0160	33027	2659						14407									
	STD	0125	-0108	3360	2704					0010199	14444									
	STD	0150	-0066	3405	2739					0006923	14474									
200	OBS	0150	-0066	34049	2739						14474									
	STD	0200	-0010	3461	2781					0002947	14516									
200	OBS	0200	-0010	34605	2781						14516									
200	OBS	0235	-0007	34622	2783						14523									

REFERENCE	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311506		79160N	072480W	260	92	05	11	222	1969	K82	017	0237					73	8		0017	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
							33	S07	251	-110			4	07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		Σ Δ O DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C C		
222	OBS	0025	-0178	32716	2635						14382										
	STD	0030	-0180	3272	2635					0016825	14382										
	STD	0050	-0182	3273	2636					0016719	14385										
222	OBS	0050	-0182	32730	2636						14385										
	STD	0075	-0172	3280	2642					0016150	14394										
222	OBS	0075	-0172	32804	2642						14394										
	STD	0100	-0159	3305	2661					0014296	14408										
222	OBS	0100	-0159	33047	2661						14408										
	STD	0125	-0107	3358	2703					0010356	14444										
	STD	0150	-0064	3403	2737					0007106	14475										
222	OBS	0150	-0064	34026	2737						14475										
	STD	0200	-0009	3462	2782					0002846	14517										
222	OBS	0200	-0009	34619	2782						14517										
222	OBS	0235	-0007	34633	2783						14524										

REFERENCE	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311506		79160N	072480W	260	92	05	12	041	1969	K82	018	0237					44	8		0018	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
							03	S02	234	-166			5	07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		Σ Δ O DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C C		
041	OBS	0025	-0175	32716	2634						14384										
	STD	0030	-0177	3272	2635					0016846	14383										
	STD	0050	-0181	3272	2635					0016775	14385										
041	OBS	0050	-0181	32723	2635						14385										
	STD	0075	-0173	3282	2643					0016056	14394										
041	OBS	0075	-0173	32816	2643						14394										
	STD	0100	-0163	3299	2656					0014739	14405										
041	OBS	0100	-0163	32988	2656						14405										
	STD	0125	-0109	3362	2706					0010043	14444										
	STD	0150	-0065	3409	2743					0006591	14475										
041	OBS	0150	-0065	34093	2743						14475										
	STD	0200	-0009	3459	2780					0003059	14516										
041	OBS	0200	-0009	34591	2780						14516										
041	OBS	0235	-0007	34614	2782						14523										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	W/RS 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
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	123	1969	KB2	019	0237							0019
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									00	500	224	-110			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
123		OBS	0025	-0149	32721	2634				14396											
		STD	0030	-0156	3272	2634	0016876			14393											
		STD	0050	-0173	3271	2634	0016876			14389											
123		OBS	0050	-0173	32712	2634				14389											
		STD	0075	-0175	3278	2640	0016343			14393											
123		OBS	0075	-0175	32778	2640				14393											
		STD	0100	-0165	3294	2653	0015087			14404											
123		OBS	0100	-0165	32942	2653				14404											
		STD	0125	-0109	3357	2702	0010425			14443											
		STD	0150	-0065	3406	2740	0006828			14475											
123		OBS	0150	-0065	34062	2740				14475											
		STD	0200	-0012	3461	2782	0002899			14515											
123		OBS	0200	-0012	34610	2782				14515											
123		OBS	0235	-0008	34613	2782				14523											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	W/RS 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
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	200	1969	KB2	020	0237					0	0020	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									36	502	210	-120			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
200		OBS	0025	-0176	32058	2581				14374											
		STD	0030	-0177	3224	2596	0020516			14377											
		STD	0050	-0178	3272	2635	0016819			14386											
200		OBS	0050	-0178	32718	2635				14386											
		STD	0075	-0173	3281	2642	0016133			14394											
200		OBS	0075	-0173	32806	2642				14394											
		STD	0100	-0160	3295	2653	0015053			14406											
200		OBS	0100	-0160	32948	2653				14406											
		STD	0125	-0103	3365	2708	0009834			14447											
		STD	0150	-0059	3416	2747	0006144			14479											
200		OBS	0150	-0059	34155	2747				14479											
		STD	0200	-0011	3461	2781	0002942			14516											
200		OBS	0200	-0011	34605	2781				14516											
200		OBS	0235	-0008	34620	2782				14523											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	W/RS 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
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	225	1969	KB2	021	0237					0	0021	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									36	505	200	-140			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
225		OBS	0025	-0174	32715	2634				14384											
		STD	0030	-0171	3272	2634	0016874			14386											
		STD	0050	-0165	3272	2634	0016862			14392											
225		OBS	0050	-0165	32716	2634				14392											
		STD	0075	-0175	3278	2639	0016359			14393											
225		OBS	0075	-0175	32776	2639				14393											
		STD	0100	-0164	3294	2652	0015120			14404											
225		OBS	0100	-0164	32938	2652				14404											
		STD	0125	-0100	3397	2734	0007399			14453											
		STD	0150	-0053	3459	2782	0002848			14488											
225		OBS	0150	-0053	34591	2782				14488											
		STD	0200	-0010	3459	2780	0003031			14516											
225		OBS	0200	-0010	34594	2780				14516											
225		OBS	0235	-0007	34619	2782				14523											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	M/250EN 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	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	042	1969	K82 022		0237						1	0022
						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									
									20	502	186	-200		8	07						
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 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
042	OBS	0025	-0178	32711	2634						14382										
	STD	0030	-0178	3271	2634	0016882					14383										
	STD	0050	-0179	3272	2635	0016833					14386										
042	OBS	0050	-0179	32716	2635						14386										
	STD	0075	-0173	3282	2643	0015994					14394										
042	OBS	0075	-0173	32824	2643						14394										
	STD	0100	-0161	3293	2651	0015204					14406										
042	OBS	0100	-0161	32928	2651						14406										
	STD	0125	-0103	3363	2707	0009987					14447										
	STD	0150	-0059	3414	2746	0006266					14479										
042	OBS	0150	-0059	34139	2746						14479										
	STD	0200	-0013	3459	2780	0003076					14514										
042	OBS	0200	-0013	34586	2780						14514										
042	OBS	0235	-0007	34603	2781						14523										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	M/250EN 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	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	125	1969	K82 023		0237						1	0023
						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									
									06	510	186	-130		7	07						
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 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
125	OBS	0025	-0177	32716	2635						14383										
	STD	0030	-0178	3272	2635	0016852					14383										
	STD	0050	-0179	3272	2634	0016840					14386										
125	OBS	0050	-0179	32715	2634						14386										
	STD	0075	-0172	3278	2639	0016373					14394										
125	OBS	0075	-0172	32775	2639						14394										
	STD	0100	-0163	3297	2655	0014862					14405										
125	OBS	0100	-0163	32972	2655						14405										
	STD	0125	-0099	3366	2709	0009772					14449										
	STD	0150	-0052	3416	2748	0006115					14482										
125	OBS	0150	-0052	34163	2748						14482										
	STD	0200	-0012	3460	2781	0002998					14515										
125	OBS	0200	-0012	34597	2781						14515										
125	OBS	0235	-0007	34618	2782						14523										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	M/250EN 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	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	183	1969	K82 024		0237						8	0024
						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									
									08	515	186	-150		8	07						
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 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
183	OBS	0025	-0174	32718	2635						14384										
	STD	0030	-0176	3271	2634	0016902					14384										
	STD	0050	-0179	3271	2634	0016910					14386										
183	OBS	0050	-0179	32706	2634						14386										
	STD	0075	-0171	3280	2641	0016191					14395										
183	OBS	0075	-0171	32799	2641						14395										
	STD	0100	-0161	3294	2652	0015135					14406										
183	OBS	0100	-0161	32937	2652						14406										
	STD	0125	-0099	3357	2702	0010461					14448										
	STD	0150	-0054	3406	2739	0006891					14480										
183	OBS	0150	-0054																		
	STD	0200	-0013	3460	2781	0002992					14515										
183	OBS	0200	-0013	34597	2781						14515										
183	OBS	0235	-0006	34622	2782						14524										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN 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	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	13	199	1969	K82	025	0237						8		0025	
							WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
									08	S10	139	-120		7	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C			
	199	OBS	0025	-0175	32721	2635					14384											
		STD	0030	-0176	3271	2634	0016902				14384											
		STD	0050	-0178	3271	2634	0016889				14386											
	199	OBS	0050	-0178	32709	2634					14386											
		STD	0075	-0171	3282	2643	0016022				14395											
	199	OBS	0075	-0171	32821	2643					14395											
		STD	0100	-0157	3299	2656	0014746				14408											
	199	OBS	0100	-0157	32989	2656					14408											
		STD	0125	-0087	3371	2712	0009435				14455											
		STD	0150	-0040	3421	2751	0005804				14488											
	199	OBS	0150	-0040	34211	2751					14488											
		STD	0200	-0012	3458	2780	0003096				14515											
	199	OBS	0200	-0012	34584	2780					14515											
	199	OBS	0235	-0006	34627	2783					14524											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN 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	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	14	042	1969	K82	026	0237					73	X 8		0026	
							WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
									08	S15	112	-130		3	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C			
	042	OBS	0025	-0178	32707	2634					14382											
		STD	0030	-0178	3271	2634	0016898				14383											
		STD	0050	-0179	3273	2636	0016726				14386											
	042	OBS	0055	-0179	32736	2636					14387											
		STD	0075	-0174	3279	2640	0016269				14393											
	042	OBS	0075	-0174	32788	2640					14393											
		STD	0100	-0157	3297	2655	0014884				14408											
	042	OBS	0100	-0157	32971	2655					14408											
		STD	0125	-0110	3373	2715	0009198				14445											
		STD	0150	-0070	3424	2755	0005418				14475											
	042	OBS	0150	-0070	34244	2755					14475											
		STD	0200	-0013	3458	2779	0003144				14514											
	042	OBS	0200	-0013	34577	2779					14514											
	042	OBS	0235	-0007	34624	2783					14523											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN 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	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	14	124	1969	K82	027	0237					73	X 8		0027	
							WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
									07	S05	085	-120		4	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C			
	124	OBS	0025	-0176	32741	2637					14383											
		STD	0030	-0177	3275	2637	0016623				14384											
		STD	0050	-0178	3276	2638	0016466				14387											
	124	OBS	0050	-0178	32764	2638					14387											
		STD	0075	-0172	3282	2643	0016043				14395											
	124	OBS	0075	-0172	32818	2643					14395											
		STD	0100	-0157	3299	2656	0014746				14408											
	124	OBS	0100	-0157	32989	2656					14408											
		STD	0125	-0100	3372	2714	0009310				14450											
		STD	0150	-0057	3423	2753	0005581				14481											
	124	OBS	0150	-0057	34230	2753					14481											
		STD	0200	-0014	3458	2780	0003101				14514											
	124	OBS	0200	-0014	34582	2780					14514											
	124	OBS	0235	-0007	34618	2782					14523											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	W/250EN 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	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W		260	92	05	14	159	1969	KB2	028	0237					70	X 8	0028	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB										WET BULB	
										00	500	085	-085	7	07							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107			Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
159		OBS	0025	-0136	32718	2634					14402											
		STD	0030	-0143	3272	2634	0016922				14400											
		STD	0050	-0163	3271	2634	0016882				14393											
159		OBS	0050	-0163	32714	2634					14393											
		STD	0075	-0173	3281	2642	0016125				14394											
159		OBS	0075	-0173	32807	2642					14394											
		STD	0100	-0161	3303	2660	0014422				14407											
159		OBS	0100	-0161	33030	2660					14407											
		STD	0125	-0101	3379	2719	0008771				14450											
		STD	0150	-0057	3430	2759	0005048				14482											
159		OBS	0150	-0057	34300	2759					14482											
		STD	0200	-0014	3457	2779	0003177				14514											
159		OBS	0200	-0014	34572	2779					14514											
159		OBS	0235	-0007	34671	2786					14524											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	W/250EN 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	IO. NO.	1/10	1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
311506			79160N	072480W		260	92	05	14	201	1969	KB2	029	0237					0		0029	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB										WET BULB	
										04	503	088	-092	8	07							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107			Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
201		OBS	0025	-0171	32730	2636					14386											
		STD	0030	-0173	3272	2635	0016831				14385											
		STD	0050	-0178	3272	2635	0016827				14386											
201		OBS	0050	-0178	32717	2635					14386											
		STD	0075	-0172	3282	2643	0016050				14395											
201		OBS	0075	-0172	32817	2643					14395											
		STD	0100	-0151	3299	2656	0014747				14411											
201		OBS	0100	-0151	32991	2656					14411											
		STD	0125	-0091	3371	2713	0009420				14454											
		STD	0150	-0048	3422	2752	0005729				14485											
201		OBS	0150	-0048	34216	2752					14485											
		STD	0200	-0013	3457	2779	0003175				14514											
201		OBS	0200	-0013	34573	2779					14514											
201		OBS	0235	-0006	34609	2781					14524											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	W/250EN 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	IO. NO.	1/10	1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
311506			79160N	072480W		260	92	05	15	041	1969	KB2	030	0237					4		0030	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB										WET BULB	
										00	500	081	-108	8	07							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107			Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
042		OBS	0025	-0170	32721	2635					14386											
		STD	0030	-0172	3272	2635	0016841				14386											
		STD	0050	-0175	3271	2634	0016887				14388											
042		OBS	0050	-0175	32710	2634					14388											
		STD	0075	-0170	3282	2643	0016024				14396											
042		OBS	0075	-0170	32821	2643					14396											
		STD	0100	-0153	3300	2657	0014680				14410											
042		OBS	0100	-0153	32999	2657					14410											
		STD	0125	-0092	3372	2713	0009340				14453											
		STD	0150	-0048	3422	2752	0005668				14485											
042		OBS	0150	-0048	34224	2752					14485											
		STD	0200	-0011	3458	2779	0003155				14515											
042		OBS	0200	-0011	34577	2779					14515											
042		OBS	0235	-0008	34686	2788					14524											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRIFT INDIC	% SZEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR	MIN		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W		260	92	05	15	122	1969	K82	031		0237						4		0031	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY RULR	WET RULR													
									03	505	098	-088		8	07									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
122	OBS	0025	-0178	32722	2635						14382													
	STD	0030	-0178	3272	2635			0016798			14383													
	STD	0050	-0178	3273	2635			0016766			14386													
122	OBS	0050	-0178	32725	2635						14386													
	STD	0075	-0173	3281	2642			0016087			14394													
122	OBS	0075	-0173	32812	2642						14394													
	STD	0100	-0155	3304	2660			0014383			14410													
122	OBS	0100	-0155	33037	2660						14410													
	STD	0125	-0097	3371	2713			0009398			14451													
	STD	0150	-0053	3419	2750			0005919			14482													
122	OBS	0150	-0053	34188	2750						14482													
	STD	0200	-0011	3459	2780			0003026			14515													
122	OBS	0200	-0011	34594	2780						14515													
122	OBS	0235	-0007	34623	2783						14523													

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRIFT INDIC	% SZEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR	MIN		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W		260	92	05	15	191	1969	K82	032		0237					72	X	8	0032	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY RULR	WET RULR													
									08	508	098	-090		5	27									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
	STD	0010	-0153	3274	2636			0016768			14392													
191	OBS	0010	-0153	32736	2636						14392													
	STD	0020	-0165	3271	2634			0016933			14387													
191	OBS	0020	-0165	32710	2634						14387													
	STD	0030	-0176	3272	2635			0016848			14384													
191	OBS	0030	-0176	32717	2635						14384													
191	OBS	0040	-0181	32720	2635						14383													
	STD	0050	-0177	3272	2635			0016791			14387													
191	OBS	0050	-0177	32722	2635						14387													
191	OBS	0060	-0176	32710	2634						14389													
191	OBS	0070	-0173	32798	2641						14393													
208	OBS	0071	-0172	32784	2640						14394													
	STD	0075	-0171	3282	2643			0016030			14395													
208	OBS	0080	-0169	32856	2646						14397													
208	OBS	0090	-0165	32930	2652						14402													
	STD	0100	-0163	3300	2657			0014624			14406													
208	OBS	0100	-0163	33003	2657						14406													
208	OBS	0110	-0124	33303	2681						14430													
208	OBS	0120	-0123	33571	2702						14436													
	STD	0125	-0100	3383	2723			0008469			14451													
208	OBS	0130	-0095	33843	2723						14454													
215	OBS	0131	-0096	33817	2721						14454													
215	OBS	0140	-0080	34012	2737						14465													
	STD	0150	-0056	3424	2754			0005540			14481													
215	OBS	0150	-0056	34236	2754						14481													
215	OBS	0160	-0028	34448	2770						14499													
215	OBS	0170	-0029	34488	2773						14501													
215	OBS	0180	-0022	34530	2776						14506													
215	OBS	0190	-0018	34565	2778						14510													
234	OBS	0191	-0018	34543	2777						14510													
	STD	0200	-0011	3457	2779			0003178			14515													
234	OBS	0200	-0011	34574	2779						14515													
234	OBS	0210	-0011	34600	2781						14517													
234	OBS	0220	-0007	34607	2781						14521													
234	OBS	0230	-0005	34625	2783						14524													
234	OBS	0240	-0005	34618	2782						14525													

TABLE I.—Continued

REFERENCE CRUY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	W/250EN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506		79160N	072480W	260	92	05	15	199			1969	K82	033	0237						72	X	8	0033
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB												
							07	502	119	-059		7	07										

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
199	OBS	0025	-0172	32709	2634				14385								
	STD	0030	-0174	32711	2634	0016906			14385								
	STD	0050	-0176	3273	2636	0016701			14387								
199	OBS	0050	-0176	32734	2636				14387								
	STD	0075	-0169	3285	2645	0015796			14397								
199	OBS	0075	-0169	32851	2645				14397								
	STD	0100	-0159	3305	2661	0014296			14408								
199	OBS	0100	-0159	33047	2661				14408								
	STD	0125	-0101	3373	2715	0009230			14449								
	STD	0150	-0058	3422	2752	0005661			14480								
199	OBS	0150	-0058	34219	2752				14480								
	STD	0200	-0014	3458	2780	0003109			14514								
199	OBS	0200	-0014	34581	2780				14514								
199	OBS	0235	-0008	34625	2783				14523								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	W/250EN 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		TYPE	AMT	
311506			79160N	072480W	260	92	05	16	004	1969	K82	034	0237						72	X	7	0034			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB													
										166				07											

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
004	OBS	0025	-0175	32691	2632				14383								
	STD	0030	-0175	3269	2632	0017073			14384								
	STD	0050	-0176	3268	2631	0017131			14387								
004	OBS	0050	-0176	3170P	2552P												
	STD	0075	-0171	3266	2630	0017228			14393								
004	OBS	0075	-0171	32664	2630				14393								
	STD	0100	-0159	3334	2685	0012049			14412								
004	OBS	0100	-0159	2605P	2095P												
	STD	0125	-0096	3387	2726	0008178			14454								
	STD	0150	-0051	3425	2755	0005425			14484								
004	OBS	0150	-0051	34254	2755				14484								
	STD	0200	-0013	3460	2781	0002947			14515								
004	OBS	0200	-0013	34603	2781				14515								
004	OBS	0235	-0007	34654	2785				14524								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	W/250EN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W		260	92	05	16	041	1969	K82	035		0237							0		0035
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB												
											18	515	186	-052	9	07								

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
041	OBS	0025	-0177	32641	2628				14382								
	STD	0030	-0177	3267	2631	0017207			14383								
	STD	0050	-0178	3277	2639	0016435			14387								
041	OBS	0050	-0178	32768	2639				14387								
	STD	0075	-0171	3289	2648	0015515			14396								
041	OBS	0075	-0171	32887	2648				14396								
	STD	0100	-0163	3300	2657	0014662			14406								
041	OBS	0100	-0163	32998	2657				14406								
	STD	0125	-0098	3343	2690	0011535			14446								
	STD	0150	-0051	3419	2750	0005906			14483								
041	OBS	0150	-0051	34191	2750				14483								
	STD	0200	-0013														
041	OBS	0200	-0013	3370P	2709P												
041	OBS	0235	-0008	3406P	2737P												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W		260	92	05	16	125	1969	K82	036	0237						0		0036	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB											
								06	S01	227	-110		9	07									
MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C						
125	OBS	0025	-0178	32685	2632				14382														
	STD	0030	-0178	3270	2633	0016975			14383														
	STD	0050	-0177	3275	2637	0016560			14387														
125	OBS	0050	-0177	32752	2637				14387														
	STD	0075	-0173	3275	2638	0016532			14393														
125	OBS	0075	-0173	32754	2638				14393														
	STD	0100	-0161	3341	2690	0011507			14412														
125	OBS	0100	-0161	3180P	2560P																		
	STD	0125	-0100	3390	2728	0007934			14452														
	STD	0150	-0055	3422	2752	0005667			14482														
125	OBS	0150	-0055	34220	2752				14482														
	STD	0200	-0016	3438	2763	0004649			14510														
125	OBS	0200	-0016	34377	2763				14510														
125	OBS	0235	-0007	3401P	2733P																		

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W		260	92	05	16	180	1969	K82	037	0237						X 5		0037	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB											
								36	S02	224	-040		8	07									
MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C						
180	OBS	0025	-0176	32735	2636				14383														
	STD	0030	-0177	3274	2636	0016708			14384														
	STD	0050	-0178	3274	2636	0016673			14387														
180	OBS	0050	-0178	32737	2636				14387														
	STD	0075	-0172	3283	2644	0015958			14395														
180	OBS	0075	-0172	32829	2644				14395														
	STD	0100	-0160	3308	2664	0014040			14408														
180	OBS	0100	-0160	33080	2664				14408														
	STD	0125	-0107	3358	2703	0010356			14444														
	STD	0150	-0065	3391	2727	0008025			14473														
180	OBS	0150	-0065	33905	2727				14473														
	STD	0200	-0015	3405	2737	0007111			14506														
180	OBS	0200	-0015	34054	2737				14506														
180	OBS	0235	-0007	34124	2742				14516														

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W		260	92	05	16	201	1969	K82	038	0237						8		0038	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB											
								29	S04	227	-020		8	07									
MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C						
201	OBS	0025	-0177	32708	2634				14382														
	STD	0030	-0177	3272	2635	0016801			14384														
	STD	0050	-0176	3278	2640	0016324			14388														
201	OBS	0050	-0176	3233P	2603P																		
	STD	0075	-0170	3286	2646	0015740			14396														
201	OBS	0075	-0170	32858	2646				14396														
	STD	0100	-0156	3311	2666	0013790			14411														
201	OBS	0100	-0156	33114	2666				14411														
	STD	0125	-0102	3338	2686	0011903			14444														
	STD	0150	-0060	3365	2707	0009992			14471														
201	OBS	0150	-0060	3308P	2661P																		
	STD	0200	-0015	3422	2751	0005848			14508														
201	OBS	0200	-0015	3357P	2698P																		
201	OBS	0235	-0006	34643	2784				14524														

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
311506			79160N	072480W	260	92	05	17	039	1969		K82	039	0237							8		0039	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
								28	504	220	-068		8	07										
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
039	OBS	0025	-0178	32644	2629						14381													
	STD	0030	-0178	3266	2630	0017282					14382													
	STD	0050	-0179	3275	2637	0016594					14386													
039	OBS	0050	-0179	32747	2637						14386													
	STD	0075	-0173	3287	2647	0015672					14395													
039	OBS	0075	-0173	32866	2647						14395													
	STD	0100	-0164	3305	2661	0014299					14406													
039	OBS	0100	-0164	33045	2661						14406													
	STD	0125	-0103	3306	2660	0014347					14439													
	STD	0150	-0057	3332	2680	0012538					14468													
039	OBS	0150	-0057	33318	2680						14468													
	STD	0200	-0013	3455	2777	0003334					14514													
039	OBS	0200	-0013	34552	2777						14514													
039	OBS	0235	-0008																					

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
311506			79160N	072480W	260	92	05	17	122	1969	K82	040	0237								7		0040	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
								02	504	230	-050		07											
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
122	OBS	0025	-0176	32345	2604						14378													
	STD	0030	-0176	3241	2610	0019209					14379													
	STD	0050	-0177	3264	2628	0017452					14386													
122	OBS	0050	-0177	32636	2628						14386													
	STD	0075	-0171	3281	2642	0016145					14395													
122	OBS	0075	-0171	32805	2642						14395													
	STD	0100	-0156	3304	2660	0014350					14410													
122	OBS	0100	-0156	33041	2660						14410													
	STD	0125	-0094	3375	2716	0009103					14453													
	STD	0150	-0050	3425	2754	0005499					14484													
122	OBS	0150	-0050	34245	2754						14484													
	STD	0200	-0015	3459	2780	0003058					14513													
122	OBS	0200	-0015	34587	2780						14513													
122	OBS	0235	-0009	34652	2785						14523													

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'APLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506		79160N	072480W	260	92	05	17	198	1969		K82	041	0237							1		0041
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
							03	508	227	-050	8	07										
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH				
199	OBS	0025	-0176	32753	2638						14384											
	STD	0030	-0176	3275	2637	0016579					14384											
	STD	0050	-0177	3275	2637	0016599					14387											
199	OBS	0050	-0177	32747	2637						14387											
	STD	0075	-0171	3287	2647	0015653					14396											
199	OBS	0075	-0171	32869	2647						14396											
199	OBS	0099	-0153	33098	2665						14412											
	STD	0100	-0151	3312	2667	0013757					14413											
	STD	0125	-0102	3371	2713	0009379					14448											
199	OBS	0149	-0064	34138	2746						14476											
	STD	0150	-0063	3415	2747	0006165					14477											
199	OBS	0199	-0015	34592	2781						14513											
	STD	0200	-0014	3460	2781	0002964					14514											
199	OBS	0235	-0008	34651	2785						14523											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	W/250N 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	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311506			79160N	072480W	260	92	05	18 039	1969	K82	044	0237						0	0044			
				WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. mm	DIR.	SPEED OR FORCE				DRY BULB	WET BULB													
				03	S10	193		-082		8	07											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
039		OBS	0025	-0181	32733	2636			14381													
		STD	0030	-0181	3274	2636	0016677		14382													
		STD	0050	-0181	3276	2638	0016521		14385													
039		OBS	0050	-0181	32756	2638			14385													
		STD	0075	-0170	3292	2651	0015248		14397													
039		OBS	0075	-0170	32922	2651			14397													
		STD	0100	-0155	3313	2667	0013701		14411													
039		OBS	0100	-0155	33126	2667			14411													
		STD	0125	-0111	3375	2717	0009041		14445													
		STD	0150	-0075	3419	2751	0005793		14472													
039		OBS	0150	-0075	34192	2751			14472													
		STD	0200	-0025	3453	2776	0003409		14508													
039		OBS	0200	-0025	34534	2776			14508													
039		OBS	0235	-0015	34603	2781			14519													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	W/250N 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	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311506			79160N	072480W	260	92	05	18 121	1969	K82	045	0237					1	0045				
				WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. mm	DIR.	SPEED OR FORCE				DRY BULB	WET BULB													
				02	S17	176		-040		07												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
121		OBS	0025	-0175	32756	2638			14384													
		STD	0030	-0175	3276	2638	0016557		14385													
		STD	0050	-0177	3275	2638	0016552		14387													
121		OBS	0050	-0177	32753	2638			14387													
		STD	0075	-0165	3296	2654	0014953		14400													
121		OBS	0075	-0165	32962	2654			14400													
		STD	0100	-0149	3317	2671	0013356		14415													
121		OBS	0100	-0149	33173	2671			14415													
		STD	0125	-0116	3377	2718	0008871		14443													
		STD	0150	-0085	3420	2752	0005729		14467													
121		OBS	0150	-0085	34195	2752			14467													
		STD	0200	-0031	3455	2778	0003249		14506													
121		OBS	0200	-0031	34551	2778			14506													
121		OBS	0235	-0015	34563	2778			14519													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	W/250N 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	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311506			79160N	072480W	260	92	05	18 178	1969	K82	046	0237					1	0046				
				WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. mm	DIR.	SPEED OR FORCE				DRY BULB	WET BULB													
				02	S20	166		-065		7	07											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
178		OBS	0025	-0180	32750	2637			14382													
		STD	0030	-0180	3275	2637	0016580		14383													
		STD	0050	-0178	3276	2638	0016527		14387													
178		OBS	0050	-0178	32756	2638			14387													
		STD	0075	-0168	3296	2654	0015000		14398													
178		OBS	0075	-0168	32955	2654			14398													
		STD	0100	-0148	3317	2671	0013351		14415													
178		OBS	0100	-0148	33174	2671			14415													
		STD	0125	-0111	3375	2717	0009041		14445													
		STD	0150	-0080	3416	2749	0006002		14469													
178		OBS	0150	-0080	34162	2749			14469													
		STD	0200	-0036	3447	2772	0003833		14502													
178		OBS	0200	-0036	34471	2772			14502													
178		OBS	0235	-0020	34552	2778			14516													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR	MIN			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE	AMT
311506			79160N	072480W	260	92	05	18	199	1969	K82	047	0237						0		0047			
						WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								03	S15	156	-076			7	07									
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. X 10 ³		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₂ -N µg - ml/l	Si D ₄ -Si µg - ml/l	pH	S C					
199		OBS	0025	-0181	32753	2638					14381													
		STD	0030	-0181	3275	2638	0016562				14382													
199		OBS	0049	-0181	32754	2638					14385													
		STD	0050	-0181	3276	2638	0016492				14386													
199		OBS	0074	-0169	32919	2651					14397													
		STD	0075	-0168	3293	2652	0015191				14398													
199		OBS	0099	-0154	33159	2670					14412													
		STD	0100	-0152	3319	2672	0013218				14414													
		STD	0125	-0111	3378	2719	0008812				14445													
199		OBS	0148	-0083	34158	2748					14467													
		STD	0150	-0082	3417	2749	0005932				14468													
199		OBS	0198	-0054	34386	2766					14492													
		STD	0200	-0052	3440	2767	0004296				14494													
199		OBS	0232	-0019	34550	2777					14516													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	% S DEN SQUARE		STATION TIME IGMT		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	SEA		TYPE
311506			79160N	072480W		260	92	05	19	041	1969	K82	048		0237						8		0048
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARD- METER (mba)	DRY BULB					WET BULB							
								03		S40		5		07									
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DIN. ML. X 10 ³		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH				
040		OBS	0025	-0181	32762	2638						14381											
		STD	0030	-0181	3276	2638		0016493				14382											
		STD	0050	-0179	3276	2638		0016487				14386											
040		OBS	0050	-0179	32761	2638						14386											
		STD	0075	-0167	3294	2652		0015132				14399											
040		OBS	0075	-0167	32938	2652						14399											
		STD	0100	-0154	3311	2666		0013857				14411											
040		OBS	0100	-0154	33106	2666						14411											
		STD	0125	-0117	3367	2710		0009633				14441											
		STD	0150	-0085	3410	2744		0006424				14466											
040		OBS	0150	-0085	34104	2744						14466											
		STD	0200	-0034	3455	2778		0003212				14504											
040		OBS	0200	-0034	34554	2778						14504											
040		OBS	0235	-0024	3447P	2771P																	

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'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	
311506			79160N	072480W	260	92	05	19	125	1969	K82	049	0237							8		0049			
		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	WATER		WIND	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
MESSNGR TIME OF HR 1/10								COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	RARO- METER (mba)												DRY BULB	WET BULB
									34	S10	091	-070	6	07											
124		OBS	0025	-0181	32769	2639																			
		STD	0030	-0180	3277	2639	0016433																		
		STD	0050	-0177	3282	2643	0016030																		
124		OBS	0050	-0177	32821	2643																			
		STD	0075	-0170	3293	2652	0015172																		
124		OBS	0075	-0170	32932	2652																			
		STD	0100	-0158	3304	2661	0014329																		
124		OBS	0100	-0158	33043	2661																			
		STD	0125	-0120	3362	2706	0010005																		
		STD	0150	-0085	3406	2741	0006760																		
124		OBS	0150	-0085	34060	2741																			
		STD	0200	-0027	3452	2775	0003528																		
124		OBS	0200	-0027	34517	2775																			
124		OBS	0235	-0016	34589	2780																			

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSON SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	19	160	1969	K82	050	0237						2	0050
						WATER		WIND		BARO- METER		AIR TEMP. °C		VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
									02	S15	085	-080		6	07						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	NOCC STATION NUMBER			
160		OBS	0025	-0179	32779	2640				14382											
		STD	0030	-0178	3278	2640	0016360			14384											
		STD	0050	-0175	3282	2643	0016065			14389											
160		OBS	0050	-0175	32817	2643				14389											
		STD	0075	-0170	3293	2651	0015225			14397											
160		OBS	0075	-0170	32925	2651				14397											
		STD	0100	-0157	3307	2663	0014133			14409											
160		OBS	0100	-0157	33069	2663				14409											
		STD	0125	-0122	3361	2706	0010075			14438											
		STD	0150	-0089	3402	2738	0007026			14463											
160		OBS	0150	-0089	34023	2738				14463											
		STD	0200	-0028	3450	2774	0003653			14506											
160		OBS	0200	-0028	34500	2774				14506											
160		OBS	0235	-0017	34589	2780				14518											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSON SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	19	205	1969	K82	051	0237							0051
						WATER		WIND		BARO- METER		AIR TEMP. °C		VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
									36	S30	078	-090		6	07						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	NOCC STATION NUMBER			
205		OBS	0025	-0179	32746	2637				14382											
		STD	0030	-0178	3275	2637	0016620			14383											
		STD	0050	-0176	3275	2637	0016601			14388											
205		OBS	0050	-0176	32747	2637				14388											
		STD	0075	-0168	3290	2649	0015430			14398											
205		OBS	0075	-0168	32899	2649				14398											
205		OBS	0099	-0154	33048	2661				14410											
		STD	0100	-0152	3307	2663	0014138			14412											
		STD	0125	-0115	3353	2699	0010710			14440											
205		OBS	0149	-0085	33892	2727				14463											
		STD	0150	-0084	3391	2728	0007909			14464											
205		OBS	0199	-0045	34405	2767				14497											
		STD	0200	-0044	3441	2767	0004258			14498											
205		OBS	0234	-0016	34558	2778				14518											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSON SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	20	043	1969	K82	052	0237							0052
						WATER		WIND		BARO- METER		AIR TEMP. °C		VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	(mbars)	DRY RULR	WET RULR									
									03	S30	105	-112		7	07						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	NOCC STATION NUMBER			
043		OBS	0025	-0181	32776	2639				14382											
		STD	0030	-0181	3276	2638	0016508			14382											
		STD	0050	-0179	3273	2636	0016710			14386											
043		OBS	0050	-0179	32732	2636				14386											
		STD	0075	-0172	3283	2644	0015920			14395											
043		OBS	0075	-0172	32834	2644				14395											
		STD	0100	-0152	3309	2664	0014008			14412											
043		OBS	0100	-0152	33087	2664				14412											
		STD	0125	-0111	3369	2712	0009500			14444											
		STD	0150	-0079	3412	2745	0006357			14469											
043		OBS	0150	-0079	34116	2745				14469											
		STD	0200	-0040	3444	2769	0004049			14500											
043		OBS	0200	-0040	34440	2769				14500											
043		OBS	0235	-0025	34525	2776				14514											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311506			79160N	072480W		260	92	05	20	065	1969	K82	053	0237						X	9	0053
						WATER		WIND				AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEC OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB										
									36	S20	105	-132		6	07							
MESSAGE NR	TIME 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-267		Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C		
	065		OBS	0025	-0180	32728	2636					14381										
			STD	0030	-0180	3273	2636		0016748			14382										
			STD	0050	-0179	3273	2636		0016717			14386										
	065		OBS	0050	-0179	32731	2636					14386										
			STD	0075	-0170	3286	2646		0015709			14396										
	065		OBS	0075	-0170	32862	2646					14396										
			STD	0100	-0151	3307	2663		0014110			14412										
	065		OBS	0100	-0151	33074	2663					14412										
			STD	0125	-0113	3367	2710		0009646			14443										
			STD	0150	-0080	3410	2744		0006444			14468										
	065		OBS	0150	-0080	34104	2744					14468										
			STD	0200	-0033	3446	2771		0003932			14503										
	065		OBS	0200	-0033	34460	2771					14503										
	065		OBS	0235	-0027	34509	2774					14513										

TABLE II. Observed and interpolated oceanographic data from stations taken by USCGC SOUTHWIND, 14-28 August 1969, prepared from NODC Listing No. 31-1529.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER										
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT								
311529	15		76142N	062593W	259	62	08	14	161	1969	WGS	001	0413		00	0	X		X1	4	6	0001									
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB																						
								05	507	178	061	059	7	14																	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S	C													
		STD	0000	0023	1242	0997	0174835	0000	14197	883																					
	161	OBS	0000	0023	12422	0997			14197	883																					
	161	OBS	0005	0006	31292	2514			14445	15520																					
		STD	0010	-0105	3240	2607	0019472	0097	14410	1014																					
	161	OBS	0010	-0105	32400	2607			14410	1014																					
		STD	0020	-0129	3287	2646	0015791	0115	14407	790																					
	161	OBS	0021	-0130	32900	2648			14407	774																					
		STD	0030	-0123	3299	2655	0014880	0130	14413	687																					
	161	OBS	0031	-0122	33003	2656			14414	680																					
		STD	0050	-0075	3321	2672	0013338	0158	14442	634																					
	161	OBS	0051	-0072	33224	2673			14443	632																					
		STD	0075	-0009	3341	2685	0012074	0190	14479	579																					
	163	OBS	0077	-0006	33425	2686			14481	577																					
		STD	0100	-0006	3357	2698	0010862	0219	14487	582																					
	163	OBS	0102	-0006	33577	2698			14487	582																					
		STD	0125	0014	3368	2706	0010118	0245	14502	566																					
	163	OBS	T0126	0015	33686	2706			14502	565																					
		STD	0150	0040	3377	2711	0009571	0270	14519	581																					
	163	OBS	0152	0042	33775	2712			14520	582																					
		STD	0200	0066	3388	2719	0008863	0316	14541	559																					
	163	OBS	T0200	0066	33883	2719			14541	559																					
		STD	0250	0086	3399	2726	0008196	0358	14559	540																					
	163	OBS	T0251	0087	33990	2726			14560	540																					
		STD	0300	0165	3425	2742	0006788	0396	14606	524																					
	163	OBS	0302	0167	34263	2743			14608	523																					
		STD	0400	0161																											
	163	OBS	T0401	0160																											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER										
CTRY CODE	ID. NO.				10'	1'	MO	DAY	HR./1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT											
311529	15		76050N	063100W	259	63	08	14	224	1969	WGS	002	0465		00	0	X		X3	6	8	0002								
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB																					
							00	500	156	033	017	7	14																	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S	C												
		STD	0000	0213	2042	1636	0112642	0000	14392	848																				
	224	OBS	0000	0213	20421	1636			14392	848																				
	224	OBS	0005	0040	31488	2528			14463	1195																				
		STD	0010	-0040	3251	2613	0018883	0066	14441	936																				
	224	OBS	0010	-0040	32505	2613			14441	936																				
		STD	0020	-0093	3289	2646	0015759	0083	14424	810																				
	224	OBS	0020	-0093	32888	2646			14424	810																				
		STD	0030	-0096	3300	2655	0014886	0098	14426	754																				
		STD	0050	-0101	3320	2672	0013326	0127	14430	674																				
	224	OBS	0051	-0101	33214	2673			14430	671																				
		STD	0075	-0057	3341	2687	0011866	0158	14457	634																				
	224	OBS	0076	-0055	33413	2687			14458	633																				
		STD	0100	-0019	3358	2699	0010724	0186	14481	599																				
	224	OBS	0101	-0018	33581	2699			14482	598																				
		STD	0125	0014	3368	2706	0010118	0212	14502	581																				
		STD	0150	0038	3377	2712	0009560	0237	14518	567																				
	224	OBS	T0152	0040	33775	2712			14519	566																				
		STD	0200	0059	3391	2722	0008616	0282	14538	549																				
	224	OBS	T0203	0061	33923	2723			14539	548																				
		STD	0250	0098	3404	2730	0007882	0324	14565	541																				
	224	OBS	T0253	0100	34045	2730			14567	541																				
		STD	0300	0136	3416	2737	0007257	0362	14592	538																				
	224	OBS	T0300	0136	34159	2737			14592	538																				
	224	OBS	0353	0174	34263	2742			14619	528																				
		STD	0400	0167	3436	2751	0006008	0428	14625	510																				
	224	OBS	0447	0156	34411	2756			14629	498																				
	224	OBS	0457	0153	34414	2756			14629	496																				

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 S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER				
CTRY CODE	IO. NO.					10'	1"	MO	OAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT			
311529	1S		75536N	060195W		259	50	08	15	183	1969	WGS 003		0393		00	0	X		X6	5	8	0003			
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						00		S00			143						044		039		14					
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C							
		STD	0000	0512	1665	1321		0143181		0000	14475	801														
183		OBS	0000	0512	16653	1321					14475	801														
		STD	0010	0139	3249	2602		0019928		0082	14523	1092														
183		OBS	0010	0139	32485	2602					14523	1092														
		STD	0020	-0063	3291	2647		0015677		0099	14438	959														
183		OBS	0020	-0063	32912	2647					14438	959														
		STD	0030	-0123	3304	2659		0014519		0114	14413	699														
183		OBS	0030	-0123	33037	2659					14413	699														
		STD	0050	-0091	3325	2675		0012975		0142	14435	628														
183		OBS	0051	-0089	33257	2676					14436	625														
		STD	0075	-0039	3346	2690		0011558		0173	14466	591														
183		OBS	0076	-0038	33468	2691					14467	589														
		STD	0100	-0019	3356	2698		0010876		0201	14481	513														
183		OBS	0101	-0018	33564	2698					14481	512														
		STD	0125	0011	3365	2703		0010331		0227	14500	551														
183		OBS	0126	0012	33659	2704					14501	552														
		STD	0150	0027	3377	2712		0009499		0252	14513	537														
183		OBS	T0152	0028	33782	2713					14514	536														
		STD	0200	0061	3395	2724		0008355		0297	14539	523														
183		OBS	T0201	0062	33949	2725					14540	523														
		STD	0250	0088	3405	2731		0007740		0337	14561	512														
183		OBS	T0251	0089	34051	2731					14562	512														
		STD	0300	0144	3419	2739		0007082		0374	14596	521														
183		OBS	T0301	0145	34195	2739					14597	521														
183		OBS	T0366	0178	34329	2747					14624	509														
183		OBS	T0376	0182	34373	2751					14628	508														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER
CTRY CODE	IG. NO.					10'	1"	MO	DAY	HR/L/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311529	1S	75500N	060375W	259	50	08	15	213	1969	WGS 004	0703	00	0	X			X2	5	8		0004	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						00		S00		150	034	028	7	13								
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	CTC					
		STD	0000	0384	2154	1716	0104910	0000	14483	796												
213		OBS	0000	0384	21539	1716			14483	796												
		STD	0010	0081	3216	2580	0022047	0063	14492	1276												
213		OBS	0010	0081	32163	2580			14492	1276												
		STD	0020	-0062	3290	2646	0015811	0082	14438	964												
213		OBS	0020	-0062	32895	2646			14438	964												
		STD	0030	-0064	3303	2657	0014742	0098	14441	846												
213		OBS	0030	-0064	33033	2657			14441													
		STD	0050	-0073	3328	2677	0012840	0125	14444	675												
213		OBS	0050	-0073	33276	2677			14444	675												
		STD	0075	-0052	3338	2684	0012146	0156	14459	650												
213		OBS	0075	-0052	3338	2684			14459	650												
		STD	0100	-0035	3348	2691	0011445	0186	14472	627												
213		OBS	0101	-0034	33480	2692			14473	626												
		STD	0125	-0024	3352	2695	0011129	0214	14482	608												
213		OBS	0151	-0013	33570	2698			14492	591												
		STD	0200	0092	3396	2724	0008443	0290	14553	560												
213		OBS	T0203	0097	33975	2725			14556	558												
		STD	0250	0143	3414	2735	0007440	0330	14587	532												
213		OBS	T0298	0174	34269	2743			14610	513												
		STD	0300	0174	3427	2743	0006709	0365	14611	513												
213		OBS	0401	0182	3439	2752			14632	496												
		STD	0500	0176	3444	2756	0005517	0485	14647	492												
213		OBS	T0503	0176	34443	2757			14648	492												
		STD	0600	0175	3445	2757	0005476	0540	14663	502												
213		OBS	T0602	0175	34449	2757			14664	502												
213		OBS	T0682	0177	34458	2758			14678	500												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRST CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			OUR	HGT	PER	SEA		TYPE	AMT		
311529	1S	75410N	059080W	258	59	08	18	155	1969	WGS	005	0371	00	0	X			X2	4	8		0005		
					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												
								24	503	200	029	025	8	14										

MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C
		STD	0000	0319	2418	1929	0084303	0000	14489	794							
155		OBS	0000	0319	24182	1929			14489	794							
155		OBS	0005	0170	30832	2468			14513	1125							
		STD	0010	0046	3212	2579	0022190	0053	14476	1100							
155		OBS	0010	0046	32121	2579			14476	1100							
		STD	0020	0006	3280	2635	0016784	0073	14468	1065							
155		OBS	0020	0006	32804	2635			14468	1065							
		STD	0030	-0059	3301	2655	0014952	0089	14443	887							
155		OBS	0030	-0059	33008	2655			14443	887							
155		OBS	0049	-0050	33258	2675			14454	648							
		STD	0050	-0050	3327	2675	0012976	0117	14454	649							
155		OBS	0074	-0039	33420	2687			14465	651							
		STD	0075	-0038	3343	2688	0011792	0147	14466	650							
155		OBS	0098	-0016	33544	2696			14482	620							
		STD	0100	-0013	3355	2696	0010981	0176	14483	617							
		STD	0125	0021	3360	2699	0010764	0203	14504	589							
155		OBS	0147	0048	33677	2704			14521	572							
		STD	0150	0052	3370	2705	0010171	0229	14523	571							
155		OBS	0196	0096	33937	2722			14554	560							
		STD	0200	0097	3394	2722	0008627	0276	14555	559							
155		OBS	T0243	0114	34038	2729			14571	544							
		STD	0250	0121	3407	2731	0007812	0317	14576	540							
155		OBS	T0294	0148	34209	2740			14597	518							
		STD	0300	0148	3422	2741	0006885	0354	14599	516							
165		OBS	T0343	0148	34288	2746			14607	498							
165		OBS	0354	0148	34312	2748			14609	492							

REFERENCE CTRY CODE	ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
									CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311529		1S	75390N	059140W		258	59 08 18 182	1969	WGS	006	0172		00	0	X		X2	4	8		0006
						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								
									24	503	200	029	025	8	11						

MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C
		STD	0000	0254	2531	2023	0075278	0000	14475	755							
182		OBS	0000	0254	25313	2023			14475	755							
182		OBS	0005	0202	30881	2470			14528	1023							
		STD	0010	0092	3206	2571	0022891	0049	14496	1110							
182		OBS	0011	0074	32237	2586			14490	1111							
		STD	0020	-0025	3272	2630	0017293	0069	14453	807							
182		OBS	0022	-0038	32802	2637			14449	766							
		STD	0030	-0049	3298	2652	0015204	0085	14447	730							
182		OBS	0033	-0052	33031	2656			14447	715							
		STD	0050	-0055	3325	2674	0013106	0114	14451	613							
182		OBS	0054	-0056	33287	2677			14452	598							
		STD	0075	-0037	3341	2686	0011949	0145	14466	580							
182		OBS	0081	-0031	33450	2689			14471	578							
		STD	0100	-0014	3356	2697	0010900	0174	14483	580							
182		OBS	T0108	-0006	33601	2700			14489	581							
		STD	0125	0003	3362	2701	0010519	0200	14496	578							
		STD	0150	0035	3373	2709	0009847	0226	14516	570							
182		OBS	0158	0051	33780	2712			14525	566							
182		OBS	T0168	0074	33860	2717			14539	561							
182		OBS	T0172		33885					584							

TABLE II.—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		NDDC STATION NUMBER	
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
311529	1S	75360N	059450W	258	59	08	18	230	1969	WGS 007		0630		00	0	X		X1	5	3	0007
				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										
							00	S00	209	088	066	8	15								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH				
		STD	0000	0566	2885	2277	0050958		0000	14656	728										
	230	OBS	0000	0566	2885	2277				14656	728										
	230	OBS	0005	0681	3054	2396				14725	730										
		STD	0010	0405	3187	2532	0026658		0039	14630	928										
	230	OBS	0010	0405	3186	2532				14630	928										
		STD	0020	0151	3278	2625	0017800		0061	14534	1012										
	230	OBS	0020	0151	3277	2625				14534	1012										
		STD	0030	0009	3311	2660	0014443		0077	14476	928										
	230	OBS	0030	0009	3312	2660				14476	928										
		STD	0050	-0064	3336	2683	0012269		0104	14449	679										
	230	OBS	0050	-0064	3335	2683				14449	679										
	230	OBS	0074	-0026	3350	2694				14473	620										
		STD	0075	-0023	3351	2694	0011247		0133	14474	620										
	234	OBS	0099	0043	3364	2701				14510	607										
		STD	0100	0044	3365	2702	0010510		0160	14511	606										
		STD	0125	0064	3377	2710	0009710		0186	14526	578										
	234	OBS	0149	0085	3387	2717				14541	560										
		STD	0150	0086	3388	2718	0009008		0209	14541	560										
	234	OBS	0198	0131	3403	2727				14572	553										
		STD	0200	0132	3404	2727	0008106		0252	14572	553										
		STD	0250	0149	3413	2734	0007559		0291	14589	540										
	234	OBS	0298	0161	3421	2739				14604	527										
		STD	0300	0161	3422	2740	0006985		0327	14604	526										
	238	OBS	T0399	0169	3435	2750				14626	496										
		STD	0400	0169	3436	2750	0006025		0392	14626	496										
	238	OBS	T0493	0178	3441	2754				14647	486										
		STD	0500	0178	3442	2755	0005682		0451	14648	488										
	238	OBS	T0537	0178	3442	2755				14654	496										
	238	OBS	0548		3442					504											

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		NDDC STATION NUMBER	
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
311529	1S	75108N	059105W	258	59	08	19	160	1969	WGS 009		0795		00	0	X		X0	0	0008	
				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										
							04	S11	200	050	033	8	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH				
		STD	0000	0609	3075	2421	0037169		0000	14698	755										
	160	OBS	0000	0609	3074	2421				14698	755										
		STD	0010	0252	3187	2545	0025395		0031	14564	924										
	160	OBS	0010	0252	3186	2545				14564	924										
		STD	0020	0054	3295	2645	0015889		0052	14492	975										
	160	OBS	0020	0054	3295	2645				14492	975										
		STD	0030	-0004	3315	2663	0014132		0067	14470	866										
	160	OBS	0030	-0004	3315	2663				14470	866										
		STD	0050	-0061	3333	2681	0012487		0094	14450	697										
	160	OBS	0050	-0061	3332	2681				14450	697										
		STD	0075	-0058	3349	2693	0011258		0123	14458	662										
	160	OBS	0075	-0058	3348	2693				14458	662										
		STD	0100	0010	3366	2704	0010293		0150	14495	610										
	160	OBS	T0100	0010	3365	2704				14495	610										
		STD	0125	0041	3374	2709	0009822		0175	14515	604										
		STD	0150	0069	3382	2714	0009352		0199	14533	598										
		STD	0200	0114	3399	2724	0008384		0244	14564	585										
	160	OBS	0201	0115	3399	2725				14564	585										
		STD	0250	0143	3411	2732	0007666		0284	14587	562										
		STD	0300	0163	3421	2739	0007074		0321	14605	543										
	160	OBS	T0302	0164	3421	2739				14606	542										
		STD	0400	0178	3438	2751	0005943		0386	14630	516										
	160	OBS	T0403	0178	3438	2752				14631	515										
	167	OBS	T0499	0167	3444	2758				14643	510										
		STD	0500	0167	3445	2758	0005365		0442	14643	510										
	167	OBS	T0593	0166	3447	2760				14659	500										
		STD	0600	0166	3448	2760	0005178		0495	14660	500										
		STD	0700	0160	3449	2761	0005089		0546	14674	500										
	167	OBS	T0701	0160	3448	2761				14674	500										
	167	OBS	T0777	0048	3449	2769				14637	504										

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSEN SQUARE 10' 1'	STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTN TO BOTTOM	MAX. DEPTN OF S'PL'S	WAVE OBSERVATIONS			WEATH- ER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CTRY CODE	ID. NO.						CRUISE NO.	STATION NUMBER		MO	DAY			HR, 1/10	DIR	HGT			
311529	15	75110N	058530W	258	58	08	19	181	1969	WGS	008	0274	00	0	X		X0	0	0009
WATER						WIND		AIR TEMP. °C											
COLOR CODE		TRANSP. (m)		DIR.		SPEED OR FORCE		BARO- METER (mb)		CRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS	
				35		S07		186		050		037		8		11			

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M, X 10^3	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma t/l$	TOTAL-P $\mu g - \sigma t/l$	NO ₂ -N $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	SiO ₄ -Si $\mu g - \sigma t/l$	pH	S C
		STD	0000	0563	3056	2412	0038095	0000	14677	773							
181		OBS	0000	0563	30558	2412			14677	773							
181		OBS	0005	0550	30495	2408			14672	784							
		STD	0010	0246	3212	2565	0023448	0031	14565	1029							
181		OBS	0010	0246	32117	2565			14565	1029							
		STD	0020	0087	3288	2637	0016631	0051	14506	1022							
181		OBS	0020	0087	32878	2637			14506	1022							
		STD	0030	-0014	3309	2659	0014507	0066	14465	892							
181		OBS	0030	-0014	33090	2659			14465	892							
		STD	0050	-0054	3328	2677	0012851	0094	14452	691							
181		OBS	0050	-0054	33284	2677			14452	691							
		STD	0075	-0043	3346	2691	0011541	0124	14464	637							
181		OBS	0076	-0042	33464	2691			14465	636							
		STD	0100	0016	3358	2698	0010879	0152	14497	622							
181		OBS	T0100	0016	33582	2698			14497	622							
		STD	0125	0041	3371	2707	0010035	0178	14514	606							
		STD	0150	0064	3383	2715	0009254	0203	14531	589							
181		OBS	T0152	0066	33834	2715			14532	588							
		STD	0200	0102	3400	2726	0008205	0246	14558	557							
181		OBS	0201	0103	34007	2727			14559	556							
181		OBS	T0210	0109	34025	2728			14564	554							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT MOVR	MAGNETIC SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NOOD STATION NUMBER
CRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	OIL			HGT	PER	SEA	TYPE			
311529	15	74504N	057211W	258	47	08	20	146	1969	WGS	010	0366			00	0	X		X1	5	2		0010
						WATER		WIND								AIR TEMP. °C							
						COLOR CODE	TRANS. (m)	OIL	SPEED OR FORCE	BABO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS								
								21	S07	185	050	042	8	12									

MESSNGR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma t/l$	TOTAL-P $\mu g - \sigma t/l$	NO ₂ -N $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	Si O ₄ -Si $\mu g - \sigma t/l$	pH	S C
		STD	0000	0374	2679	2132	0064805	0000	14548	798							
146		OBS	0000	0374	26792	2132			14548	798							
		STD	0010	0178	3244	2596	0020520	0043	14539	1074							
146		OBS	0010	0178	32440	2596			14539	1074							
		STD	0020	-0034	3285	2641	0016239	0061	14451	811							
146		OBS	0020	-0034	32853	2641			14451	811							
		STD	0030	-0053	3307	2660	0014493	0076	14447	628							
146		OBS	0030	-0053	33071	2660			14447	628							
146		OBS	0049	-0068	33271	2676			14446	561							
		STD	0050	-0067	3328	2677	0012832	0104	14446	561							
146		OBS	0074	-0043	33447	2689			14464	566							
		STD	0075	-0043	3345	2690	0011620	0134	14464	566							
146		OBS	0098	-0031	33564	2698			14475	560							
		STD	0100	-0030	3357	2699	0010750	0162	14476	559							
		STD	0125	-0013	3366	2705	0010136	0188	14489	547							
146		OBS	T0149	0003	33746	2711			14502	539							
		STD	0150	0004	3375	2712	0009530	0213	14502	539							
146		OBS	T0196	0033	33900	2722			14525	531							
		STD	0200	0035	3391	2723	0008475	0258	14527	530							
		STD	0250	0061	3400	2729	0007946	0299	14548	517							
146		OBS	T0290	0078	34099	2736			14564	515							
		STD	0300		3413					516							
146		OBS	0317		34184					517							
146		OBS	0327		34216					511							

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTDM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311529	15		7448 N	05748 W	258	47	08	20	220	1969	WGS	011		0934		00	0	X		X1	5 2	0011
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	DIR.	WET BULB										
								00	S00	226	056	044	8	16								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta$ D DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SID ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C C					
		STD	0000	0343	2701	2152	0062911	0000	14537	797												
220		OBS	0000	0343	27011	2152			14537	797												
		STD	0010	0072	3223	2586	0021520	0042	14489	1084												
220		OBS	0010	0072	32226	2586			14489	1084												
		STD	0020	0014	3286	2640	0016393	0061	14473	1088												
220		OBS	0021	0007	32903	2643			14470	1088												
		STD	0030	-0067	3309	2662	0014295	0077	14440	771												
220		OBS	0031	-0073	33109	2663			14438	746												
		STD	0050	-0070	3326	2675	0012973	0104	14445	656												
220		OBS	0051	-0069	33268	2676			14445	653												
		STD	0075	-0039	3344	2689	0011711	0135	14466	630												
220		OBS	0077	-0036	33455	2690			14468	629												
		STD	0100	-0005	3359	2699	0010714	0163	14488	618												
220		OBS	0102	-0003	33597	2700			14489	617												
		STD	0125	0021	3368	2705	0010155	0189	14505	595												
		STD	0150	0044	3376	2710	0009669	0214	14521	573												
220		OBS	0153	0047	33772	2711			14523	571												
		STD	0200	0081	3393	2722	0008600	0259	14548	541												
220		OBS	T0204	0083	33940	2723			14550													
		STD	0250	0080	3402	2729	0007916	0301	14557	517												
		STD	0300	0077	3412	2737	0007143	0338	14565	501												
220		OBS	T0304	0077	34124	2738			14566	500												
		STD	0400	0123	3430	2749	0006120	0404	14605	493												
220		OBS	T0406	0125	34313	2750			14607	492												
		STD	0500	0133	3445	2760	0005093	0461	14628	470												
220		OBS	T0508	0134	34454	2761			14630	469												
		STD	0600	0128	3448	2763	0004852	0510	14643	469												
226		OBS	0602	0128	34481	2763			14643	469												
		STD	0700	0127	3449	2764	0004793	0558	14659	468												
226		OBS	T0703	0127	34493	2764			14660	468												
		STD	0800	0128	3450	2764	0004774	0606	14677	469												
		STD	0900	0130	3450	2764	0004794	0654	14694	471												
226		OBS	T0923	0131	34501	2764			14699	471												
226		OBS	0934		34498					451												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARS DEN		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S' MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER			
						10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
CTRY	ID. NO.																										
311529	1S	73355N	055570W		258	35	08	21	203	1969	WGS	012		0816			00	0	X		X1	1	6	0012			
						WATER		WIND		AIR TEMP. °C		BARO- METER		SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	RHO- METER (mb)		DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS										
								00	S00	142		039		028		7	13										

MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	3
TIME	NO.	TYPE					ANOMALY-310°	DYN. M.	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l		C
HR 1/10								x 10 ³									
		STD	0000	0325	3083	2457	0033805	0000	14580	880							
		OBS	0000	0325	30830	2457			14580	880							
203		STD	0010	0185	3258	2607	0019474	0027	14545	969							
		OBS	0010	0185	32584	2607			14545	969							
203		STD	0020	0082	3294	2642	0016139	0044	14505	841							
		OBS	0020	0082	32939	2642			14505	841							
		STD	0030	0079	3311	2656	0014804	0060	14508	813							
203		OBS	0030	0079	33112	2656			14508	813							
		STD	0050	0070	3335	2676	0012978	0088	14510	652							
		OBS	0050	0070	33345	2676			14510	652							
203		STD	0075	0036	3347	2688	0011840	0119	14501	666							
		STD	0100	0017	3358	2698	0010877	0147	14498	670							
203		OBS	0100	0017	33583	2698			14498	670							
		STD	0125	0037	3367	2704	0010317	0174	14512	639							
		STD	0150	0057	3375	2709	0009820	0199	14526	613							
		STD	0200	0092	3392	2720	0008746	0245	14553	574							
203		OBS	0201	0093	33927	2721			14554	573							
		STD	0250	0124	3412	2734	0007455	0286	14578	562							
		STD	0300	0150	3427	2745	0006523	0321	14600	551							
203		OBS	T0302	0151	34276	2745			14601	551							
		STD	0400	0185	3440	2752	0005853	0383	14634	540							
203		OBS	T0404	0186	34403	2753			14635	539							
		STD	0500	0214	3451	2759	0005317	0438	14665	532							
203		OBS	T0505	0215	34513	2759			14666	532							
210		OBS	T0596	0220	34548	2762			14684	528							
		STD	0600	0220	3455	2762	0005133	0491	14685	528							
		STD	0700	0217	3456	2763	0005088	0542	14700	526							
210		OBS	T0702	0217	34557	2763			14700	526							
210		OBS	0792	0218	34559	2763			14716	523							

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S' MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
						10'	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
311529	1S		73339N	056090W		258	36	08	21	235	1969	WGS	013		0320		00	0	X		X1	1	2	0013	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB									
						00		S00		132		038		030		7		12							

MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	3
TIME	NO.	TYPE					ANOMALY-310°	DYN. M.	VELOCITY		μg-at/l	μg-at/l	μg-at/l	μg-at/l	μg-at/l		C
HR 1/10								x 10 ³									
		STD	0000	0398	3150	2503	0029365	0000	14621	860							
		OBS	0000	0398	31500	2503			14621	860							
		STD	0010	0122	3269	2620	0018258	0024	14518	1002							
		OBS	0010	0122	32691	2620			14518	1002							
		STD	0020	0075	3292	2641	0016245	0041	14502	810							
235		OBS	0020	0075	32920	2641			14502	810							
		STD	0030	0080	3317	2661	0014345	0056	14509	632							
235		OBS	0030	0080	33173	2661			14509	632							
		STD	0050	0084	3337	2677	0012838	0084	14517	610							
235		OBS	0050	0084	33374	2677			14517	610							
		STD	0075	0051	3352	2691	0011509	0114	14508	631							
235		OBS	0076	0050	33530	2692			14508	632							
		STD	0100	0031	3360	2698	0010819	0142	14504	633							
235		OBS	0101	0030	33603	2699			14504	633							
		STD	0125	0049	3370	2705	0010140	0168	14518	610							
		STD	0150	0067	3381	2713	0009454	0193	14532	594							
235		OBS	T0151	0068	33810	2713			14532	593							
		STD	0200	0099	3395	2722	0008564	0238	14556	583							
235		OBS	T0204	0102	33966	2724			14559	580							
		STD	0250	0131	3409	2732	0007731	0278	14581	519							
235		OBS	0252		34101					518							
		STD	0300	0163	3428	2745	0006546	0314	14606	539							
235		OBS	T0303	0165	34281	2744			14607	540							
235		OBS	0313		34290					492							

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 SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. HO.					10"	1"	MO	DAY	HR./10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311529	15		72554N	055272W	258	25	08	23	147			1969	WGS	014	0980		03	1	X		X4	X	9	0014
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		HO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANL. (m)	DIR.	SPEED OR FORCE			DRY RULE	WET RULE											
								01	S11	004		017	017	2	15									
MESSAGE TIME HR 1/10	CARD HO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta O$ OTH. M. R 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	SIC							
		STD	0000	0219	3004	2402	0039007	0000	14523	912														
147		OBS	0000	0219	30043	2402			14523	912														
		STD	0010	0136	3278	2626	0017674	0028	14525	869														
147		OBS	0010	0136	32779	2626			14525	869														
		STD	0020	0143	3300	2643	0016039	0045	14533	817														
147		OBS	0020	0143	33000	2643			14533	817														
		STD	0030	0078	3319	2662	0014235	0060	14508	686														
147		OBS	0030	0078	33186	2662			14508	686														
		STD	0050	0079	3334	2675	0013052	0088	14514	695														
147		OBS	0050	0079	33342	2675			14514	695														
		STD	0075	0075	3342	2682	0012412	0119	14518	690														
147		OBS	0075	0075	33423	2682			14518	690														
		STD	0100	0074	3355	2692	0011440	0149	14523	668														
147		OBS	0101	0074	33555	2692			14523	667														
		STD	0125	0079	3369	2703	0010406	0177	14531	634														
		STD	0150	0085	3380	2711	0009609	0202	14540	608														
147		OBS	T0152	0086	33812	2712			14541	606														
		STD	0200	0101	3397	2724	0008426	0247	14558	583														
147		OBS	T0202	0102	33976	2724			14558	582														
		STD	0250	0132	3415	2736	0007285	0286	14582	552														
		STD	0300	0159	3430	2746	0006403	0320	14604	532														
153		OBS	0300		34295					532														
		STD	0400	0204	3448	2758	0005395	0379	14643	524														
153		OBS	0400		34482					524														
		STD	0500	0233	3454	2760	0005263	0432	14674	541														
		STD	0600	0249	3458	2762	0005166	0485	14698	549														
153		OBS	0600	0249	34580	2762			14698	549														
		STD	0700	0241	3458	2762	0005144	0536	14711	543														
		STD	0800	0237	3457	2762	0005203	0588	14726	538														
153		OBS	T0800	0237	34574	2762			14726	538														
		STD	0900	0236	3457	2762	0005245	0640	14742	534														
153		OBS	T0951	0236	34574	2762			14751	532														
153		OBS	0961		34570					504														

TABLE II.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT FOOT	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH ID 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
311529	15		72170N	061465W	259	21	08	24	022	1969	WGS	020	1836		00	0	X		X1	8	7	0015
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mm	DIR.	SPED OR FORCE	mmHg	DRY BULB	WET BULB										
								00	500	050	016	011	6	16								
MESSNGR TIME NR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SDUNO VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	0397	2868	2280	0050664	0000	14583													
		OBS	0000	0397	28681	2280			14583													
		STD	0010	-0025	3205	2576	0022416	0037	14442													
		OBS	0010	-0025	32051	2576			14442													
		STD	0020	-0118	3304	2659	0014509	0055	14414													
		OBS	0020	-0118	33041	2659			14414													
		STD	0030	-0153	3323	2676	0012965	0069	14402													
		OBS	0030	-0153	33229	2676			14402													
		STD	0050	-0171	3337	2687	0011855	0094	14399													
		OBS	0050	-0171	33366	2687			14399													
		STD	0075	-0176	3342	2691	0011426	0123	14401													
		OBS	0076	-0176	33420	2692			14401													
		STD	0100	-0164	3349	2697	0010908	0151	14412													
		OBS	0101	-0163	33490	2697			14413													
		STD	0125	-0141	3358	2704	0010244	0177	14428													
		STD	0150	-0111	3368	2711	0009564	0202	14448													
		OBS	0151	-0110	33683	2711			14449													
		STD	0200	-0030	3387	2723	0008436	0247	14497													
		OBS	0202	-0027	33878	2724			14498													
		STD	0250	0040	3406	2735	0007364	0286	14540													
		STD	0300	0097	3421	2743	0006595	0321	14576													
		STD	0400	0173	3444	2757	0005454	0381	14629													
		OBS	T0403	0174	34442	2757			14630													
		STD	0500	0171	3449	2761	0005110	0434	14645													
		STD	0600	0167	3454	2765	0004756	0484	14661													
		OBS	T0603	0167	34537	2765			14662													
		STD	0700	0125	3452	2766	0004552	0530	14659													
		STD	0800	0089	3450	2767	0004427	0575	14659													
		OBS	T0805	0087	34499	2767			14659													
		STD	0900	0063	3449	2768	0004307	0619	14664													
		STD	1000	0039	3448	2769	0004188	0661	14670													
		OBS	T1002	0038	34476	2768			14670													
		STD	1100	0026	3448	2769	0004126	0703	14681													
		STD	1200	0009	3447	2770	0004000	0743	14690													
		OBS	T1208	0007	34473	2770			14691													
		STD	1300	-0015	3448	2771	0003782	0782	14696													
		STD	1400	-0044	3448	2773	0003518	0819	14700													
		STD	1500	-0078	3448	2774	0003211	0852	14701													
032		OBS	T1505	-0080	34479	2774			14701													
032		OBS	1635		34474																	

TABLE II.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT																																				
311529		15	72450N	057000W		258	27	08	24	135	1969	WGS	015	0218		00	0	X		X2	6	8	0016																																			
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td colspan="2">BARO- METER</td><td colspan="2">AIR TEMP. °C</td><td colspan="2">NO. OBS. DEPTHS</td><td colspan="2">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>(mba)</td><td>DRY BULB</td><td>WET BULB</td><td>VIS. CODE</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>00</td><td>500</td><td>014</td><td>027</td><td>022</td><td>7</td><td>11</td><td></td><td></td></tr></table>																							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								00	500	014	027	022	7	11		
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																																																			
			00	500	014	027	022	7	11																																																	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S °C																																									
		STD	0000	0528	3270	2584	0021645	0000	14691																																																	
135		OBS	0000	0528	32698	2584			14691																																																	
		STD	0010	0524	3274	2588	0021273	0021	14692																																																	
135		OBS	0010	0524	32743	2588			14692																																																	
		STD	0020	0356	3298	2625	0017815	0041	14626																																																	
135		OBS	0020	0356	32982	2625			14626																																																	
		STD	0030	0058	3329	2672	0013363	0057	14501																																																	
135		OBS	0030	0058	33286	2672			14501																																																	
		STD	0050	-0046	3342	2688	0011821	0082	14458																																																	
135		OBS	0050	-0046	33423	2688			14458																																																	
135		OBS	0074	-0048	33505	2694			14462																																																	
		STD	0075	-0048	3351	2695	0011163	0111	14463																																																	
135		OBS	0098	-0041	33554	2698			14470																																																	
		STD	0100	-0034	3357	2699	0010732	0138	14474																																																	
135		OBS	0123	0031	33765	2712			14510																																																	
		STD	0125	0036	3378	2712	0009475	0163	14513																																																	
135		OBS	0147	0080	33901	2720			14538																																																	
		STD	0150	0082	3391	2720	0008755	0186	14540																																																	
135		OBS	T0195	0097	33946	2722			14555																																																	
		STD	0200	0097	3395	2722	0008582	0229	14555																																																	
135		OBS	T0207	0096	33947	2722			14556																																																	

REFERENCE		SNIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311529	15		72385N	05804 W		258	28	08	24	160	1969	WGS	016	0172		00	0	X		X2	6	8		0017
						WATER		WIND				BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB	VIS. CODE										
									00	500	250	037	030	7	10									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S °C			
		STD	0000	0521	3237	2559		0024055		0000		14684												
160		OBS	0000	0521	32367	2559						14684												
		STD	0010	0431	3260	2587		0021367		0023		14651												
160		OBS	0010	0431	32603	2587						14651												
		STD	0020	0163	3298	2640		0016336		0042		14542												
160		OBS	0020	0163	32978	2640						14542												
		STD	0030	0017	3325	2671		0013436		0056		14481												
160		OBS	0030	0017	33249	2671						14481												
		STD	0050	-0070	3341	2687		0011864		0082		14447												
160		OBS	0050	-0070	33405	2687						14447												
		STD	0075	-0045	3355	2698		0010876		0110		14464												
160		OBS	0075	-0045	33546	2698						14464												
		STD	0100	-0026	3362	2703		0010387		0137		14478												
160		OBS	0101	-0025	33621	2703						14479												
		STD	0125	0020	3374	2710		0009693		0162		14505												
160		OBS	0126	0022	33742	2710						14506												
		STD	0150	0065	3385	2716		0009108		0185		14531												
160		OBS	T0152	0067	33856	2717						14533												
160		OBS	T0161	0072	33858	2717						14536												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DAY INDIC	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE		AMT
311529	15		72329N	058555W		258	28 08 24	182	1969	WGS 017		0245		00	0	X		X1	6	7	0018	
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE									
									00	500	420	029	018	7	11							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH					
		STD	0000	0567	3252	2566	0023434		0000	14705												
182		OBS	0000	0567	32517	2566				14705												
		STD	0010	0557	3255	2569	0023100		0023	14703												
182		OBS	0010	0557	32548	2569				14703												
		STD	0020	0125	3307	2650	0015379		0043	14526												
182		OBS	0020	0125	33072	2650				14526												
		STD	0030	0003	3322	2669	0013591		0057	14475												
182		OBS	0031	-0007	33237	2671				14470												
		STD	0050	-0108	3338	2686	0011923		0083	14429												
182		OBS	0052	-0113	33391	2688				14427												
		STD	0075	-0082	3351	2696	0011005		0111	14447												
182		OBS	0077	-0078	33518	2697				14449												
		STD	0100	-0027	3365	2705	0010153		0138	14478												
182		OBS	0102	-0022	33667	2706				14481												
		STD	0125	0046	3382	2715	0009226		0162	14518												
182		OBS	0128	0053	33837	2716				14522												
		STD	0150	0089	3393	2721	0008647		0184	14543												
182		OBS	T0154	0095	33945	2722				14547												
		STD	0200	0148	3408	2729	0007924		0226	14580												
182		OBS	T0200	0148	34079	2729				14580												
182		OBS	T0237	0158	34094	2730				14591												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DAY INDIC	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE		AMT
311529	15		72280N	059480W		258	29 08 24	213	1969	WGS 018		0420		00	0	X		X1	6	7	0019	
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE									
									32	505	051	025	012	7	13							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH					
		STD	0000	0563	3157	2492	0030465		0000	14690												
213		OBS	0000	0563	31574	2492				14690												
		STD	0010	0132	3238	2595	0020654		0026	14518												
213		OBS	0010	0132	32384	2595				14518												
		STD	0020	-0099	3321	2673	0013248		0043	14426												
213		OBS	0020	-0099	33213	2673				14426												
		STD	0030	-0146	3330	2681	0012438		0055	14406												
213		OBS	0031	-0149	33306	2682				14405												
		STD	0050	-0168	3338	2688	0011755		0080	14400												
213		OBS	0051	-0169	33388	2689				14400												
		STD	0075	-0168	3343	2692	0011353		0108	14405												
213		OBS	0076	-0167	33435	2693				14406												
		STD	0100	-0134	3347	2695	0011123		0137	14426												
213		OBS	0102	-0131	33475	2695				14428												
		STD	0125	-0096	3364	2707	0009936		0163	14450												
213		OBS	0127	-0091	33655	2708				14453												
		STD	0150	-0020	3377	2714	0009258		0187	14491												
213		OBS	T0151	-0017	33780	2715				14493												
		STD	0200	0109	3404	2729	0007949		0230	14562												
213		OBS	T0204	0117	34062	2730				14567												
		STD	0250	0183	3426	2741	0006835		0267	14606												
		STD	0300	0235	3442	2750	0006078		0299	14640												
213		OBS	T0301	0236	34423	2750				14640												
		STD	0400	0273	3455	2757	0005499		0357	14674												
213		OBS	T0405	0275	34551	2757				14676												
213		OBS	0415	0275	34556	2758				14678												

TABLE II.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METERS	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311529		1S	72230N	060450W	259	20	08	24	234	1969		WGS	019		0610		00	0	X		X8	6 6		0020
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
								01	S04	061	016	007	7	14										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC							
		STD	0000	0418	2881	2288	0049881	0000	14593															
234		OBS	0000	0418	28808	2288			14593															
		STD	0010	0198	3199	2559	0024041	0037	14542															
234		OBS	0010	0198	31994	2559			14542															
		STD	0020	0012	3299	2650	0015361	0057	14474															
234		OBS	0020	0012	32994	2650			14474															
		STD	0030	-0105	3323	2674	0013070	0071	14425															
234		OBS	0030	-0105	33233	2674			14425															
		STD	0050	-0161	3336	2686	0011941	0096	14403															
234		OBS	0050	-0161	33358	2686			14403															
		STD	0075	-0160	3340	2690	0011603	0125	14409															
234		OBS	0076	-0160	33407	2690			14409															
		STD	0100	-0122	3349	2696	0011007	0154	14432															
234		OBS	0101	-0120	33500	2697			14433															
		STD	0125	-0040	3366	2707	0010011	0180	14477															
234		OBS	0126	-0037	33670	2707			14478															
		STD	0150	0004	3379	2715	0009225	0204	14503															
234		OBS	0151	0006	33794	2715			14504															
		STD	0200	0083	3401	2728	0008006	0247	14550															
234		OBS	T0203	0087	34020	2729			14552															
		STD	0250	0111	3416	2739	0007062	0285	14573															
		STD	0300	0136	3429	2747	0006260	0318	14594															
234		OBS	T0300	0136	34291	2747			14594															
		STD	0400	0181	3446	2758	0005346	0376	14633															
234		OBS	T0404	0182	34470	2758			14634															
		STD	0500	0181	3451	2762	0005032	0428	14650															
234		OBS	T0501	0181	34515	2762			14651															
		STD	0600	0121	3452	2767	0004495	0476	14641															
234		OBS	T0602	0119	34521	2767			14640															

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARCOEN 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
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311529	1S	72110N	062450W	259	22	08	25	057	1969	WGS	021	2110	00	0	X		X7	6	8		0021
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C				VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE			DRY BULB		WET BULB											
					99	S06	059	018	014	7	17										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma_t$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S				
		STD	0000	0001	2466	1981	0079356	0000	14351												
057		OBS	0000	0001	24656	1981			14351												
		STD	0010	-0076	3218	2589	0021240	0050	14420												
057		OBS	0010	-0076	32181	2589			14420												
		STD	0020	-0153	3300	2657	0014708	0068	14397												
057		OBS	0020	-0153	33003	2657			14397												
		STD	0030	-0149	3324	2676	0012883	0082	14404												
057		OBS	0030	-0149	33241	2676			14404												
		STD	0050	-0173	3336	2687	0011897	0107	14398												
057		OBS	0050	-0173	33360	2687			14398												
		STD	0075	-0175	3342	2691	0011429	0136	14402												
057		OBS	0075	-0175	33420	2692			14402												
		STD	0100	-0160	3349	2697	0010896	0164	14414												
057		OBS	0101	-0159	33492	2697			14415												
		STD	0125	-0150	3357	2703	0010295	0190	14424												
		STD	0150	-0140	3365	2709	0009697	0215	14434												
057		OBS	0152	-0139	33658	2710			14435												
		STD	0200	-0035	3382	2719	0008793	0262	14494												
057		OBS	0202	-0031	33825	2719			14496												
		STD	0250	0036	3402	2732	0007643	0303	14537												
		STD	0300	0092	3418	2741	0006788	0339	14573												
		STD	0400	0163	3441	2755	0005599	0401	14624												
057		OBS	T0404	0165	34418	2755			14626												
		STD	0500	0159	3443	2757	0005450	0456	14639												
		STD	0600	0142	3445	2760	0005190	0509	14649												
057		OBS	T0604	0141	34453	2760			14649												
		STD	0700	0105	3448	2765	0004688	0559	14649												
		STD	0800	0073	3449	2767	0004374	0604	14652												
057		OBS	0805	0072	34491	2768			14652												
		STD	0900	0051	3448	2768	0004276	0647	14659												
		STD	1000	0032	3447	2768	0004204	0690	14667												
057		OBS	T1006	0031	34470	2768			14667												
		STD	1100	0018	3447	2769	0004084	0731	14677												
		STD	1200	0005	3447	2770	0003960	0771	14688												
057		OBS	T1211	0004	34474	2770			14690												
		STD	1300	-0008	3447	2771	0003846	0810	14699												
		STD	1400	-0020	3447	2771	0003744	0848	14711												
		STD	1500	-0029	3447	2772	0003662	0885	14724												
066		OBS	T1510	-0030	34472	2772			14725												
		STD	1750	-0036	3449	2773	0003432	0974	14763												
		STD	2000	-0042	3449	2774	0003337	1058	14803												
066		OBS	T2018	-0042	34492	2774			14806												
066		OBS	T2120	-0040	34490	2773			14825												

TABLE II.—Continued

REFERENCE CITY CODE	IO. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN 10"	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
						10"	1"	MO	OAT		NR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE		BARO- METER (mba)													AIR TEMP. °C
311529	1S	72050N	063300W	259	23	08	25	095	1969	WGS	022	2200	00	0	X		X2	6	8		0022			
											34	508	045	009	-006	7	17							
MESSNGR TIME HR 1/10	CAS NO.	CAR TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S EC							
		STD	0000	0080	2594	2082	0069647	0000	14405															
	095	OBS	0000	0080	25944	2082			14405															
		STD	0010	-0051	3230	2597	0020397	0045	14434															
	095	OBS	0010	-0051	32302	2597			14434															
		STD	0020	-0154	3289	2648	0015605	0063	14395															
	095	OBS	0020	-0154	32886	2648			14395															
		STD	0030	-0165	3309	2665	0013989	0078	14394															
	095	OBS	0030	-0165	33092	2665			14394															
		STD	0050	-0174	3330	2681	0012394	0104	14396															
	095	OBS	0050	-0174	33295	2681			14396															
		STD	0075	-0176	3339	2689	0011626	0134	14401															
	095	OBS	0075	-0176	33392	2689			14401															
		STD	0100	-0170	3344	2693	0011238	0163	14409															
	095	OBS	0100	-0170	33442	2693			14409															
		STD	0125	-0161	3354	2701	0010494	0190	14419															
		STD	0150	-0151	3363	2708	0009823	0215	14428															
	095	OBS	0150	-0151	33629	2708			14428															
		STD	0200	-0053	3381	2719	0008778	0262	14485															
	095	OBS	0200	-0053	33811	2719			14485															
		STD	0250	0018	3400	2731	0007691	0303	14529															
		STD	0300	0076	3415	2740	0006908	0340	14565															
		STD	0400	0152	3438	2753	0005738	0403	14619															
	095	OBS	T0402	0153	34384	2754			14620															
		STD	0500	0150	3444	2758	0005306	0458	14635															
		STD	0600	0146	3450	2763	0004887	0509	14651															
	095	OBS	T0603	0146	34497	2763			14652															
		STD	0700	0113	3449	2765	0004678	0557	14653															
		STD	0800	0083	3448	2766	0004528	0603	14656															
	095	OBS	T0806	0081	34475	2766			14656															
		STD	0900	0056	3447	2767	0004398	0647	14661															
		STD	1000	0036	3446	2767	0004318	0691	14668															
	095	OBS	T1010	0034	34458	2767			14669															
		STD	1100	0024	3446	2768	0004251	0734	14680															
		STD	1200	0012	3445	2768	0004166	0776	14691															
	095	OBS	T1206	0011	34454	2768			14692															
		STD	1300	-0000	3446	2769	0004013	0817	14703															
		STD	1400	-0012	3446	2770	0003904	0856	14714															
		STD	1500	-0025	3446	2770	0003789	0895	14725															
	104	OBS	T1504	-0025	34462	2771			14726															
		STD	1750	-0031	3447	2771	0003620	0988	14765															
		STD	2000	-0038	3447	2772	0003520	1077	14805															
	104	OBS	T2008	-0038	34473	2772			14806															
	104	OBS	T2193	-0039	34473	2772			14838															

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WAVE DIRECTION	MARGEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL.	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
311529	1S	72315N	063595W	259	23	08	25	140	1969	WGS	Q23	2220		36	0	2		X7	6	8	0023	
		WATER		WIND		AIR TEMP. °C																
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
				36	\$11	030	015	010	7	17												
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ^o	Σ Δ D DYN. M, x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₂ -Si μg - at/l	pH	S CO C					
		STD	0000	0256	2796	2233	0055105	0000	14512													
	140	OBS	0000	0256	27959	2233			14512													
		STD	0010	-0083	3212	2584	0021670	0038	14416													
	140	OBS	0010	-0083	32122	2584			14416													
	140	OBS	0019	-0122	32560	2621			14405													
		STD	0020	-0127	3259	2623	0017946	0058	14404													
	140	OBS	0029	-0164	32818	2643			14391													
		STD	0030	-0169	3284	2644	0015917	0075	14389													
	140	OBS	0048	-0222	33181	2673			14372													
		STD	0050	-0215	3320	2674	0013044	0104	14375													
	140	OBS	0072	-0167	33333	2684			14404													
		STD	0075	-0167	3335	2686	0011971	0135	14405													
	140	OBS	0096	-0163	33439	2693			14411													
		STD	0100	-0162	3345	2694	0011198	0164	14413													
		STD	0125	-0155	3355	2702	0010434	0191	14421													
	140	OBS	0145	-0149	33625	2708			14429													
		STD	0150	-0140	3364	2708	0009773	0217	14434													
	140	OBS	0192	-0067	33798	2719			14477													
		STD	0200	-0056	3383	2721	0008620	0263	14484													
		STD	0250	0008	3400	2732	0007636	0303	14524													
		STD	0300	0063	3415	2741	0006824	0339	14559													
	140	OBS	0384		34349																	
		STD	0400	0143	3438	2754	0005669	0402	14615													
		STD	0500	0185	3450	2760	0005141	0456	14652													
	140	OBS	T0576	0192	34555	2764			14668													
		STD	0600	0180	3455	2765	0004762	0505	14667													
		STD	0700	0134	3453	2767	0004552	0552	14663													
	140	OBS	T0776	0104	34518	2768			14662													
		STD	0800	0095	3451	2768	0004401	0597	14662													
		STD	0900	0064	3449	2768	0004312	0640	14665													
	140	OBS	T0970	0046	34483	2768			14668													
		STD	1000	0041	3449	2769	0004133	0683	14671													
		STD	1100	0025	3449	2770	0004006	0723	14681													
	140	OBS	T1171	0014	34497	2771			14688													
		STD	1200	0010	3450	2772	0003836	0762	14691													
		STD	1300	-0004	3449	2772	0003760	0800	14701													
		STD	1400	-0016	3448	2772	0003695	0838	14713													
	150	OBS	T1461	-0022	34481	2772			14720													
		STD	1500	-0024	3448	2772	0003638	0874	14726													
		STD	1750	-0034	3448	2773	0003492	0963	14764													
	150	OBS	T1958	-0038	34487	2773			14798													
		STD	2000	-0038	3449	2773	0003371	1049	14805													
	150	OBS	T2175	-0039	34493	2774			14835													

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT MO/10	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																																											
					10"	1"	MO	OAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT																																																												
311529	1S	72570N	064285W	259	24	08	25	190	1969	WGS 024		2100		00	0	X		X7	6	8		0024																																																											
<table><tr><td colspan="4">WATER</td><td colspan="4">WIND</td><td colspan="4">AIR TEMP. °C</td><td colspan="4">NO. OBS. DEPTHS</td><td colspan="4">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>BARO-METER (mbal)</td><td>DRY BULB</td><td>WET BULB</td><td>VIS. CODE</td><td colspan="4"></td><td colspan="4"></td><td colspan="4" rowspan="2"></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>34</td><td>515</td><td>034</td><td>016</td><td>015</td><td>7</td><td>17</td><td colspan="4"></td></tr></table>																							WATER				WIND				AIR TEMP. °C				NO. OBS. DEPTHS				SPECIAL OBSERVATIONS				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbal)	DRY BULB	WET BULB	VIS. CODE																					34	515	034	016	015	7	17				
WATER				WIND				AIR TEMP. °C				NO. OBS. DEPTHS				SPECIAL OBSERVATIONS																																																																	
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbal)	DRY BULB	WET BULB	VIS. CODE																																																																										
								34	515	034	016	015	7	17																																																																			
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	Si O ₄ -Si $\mu g - dl/l$	pH	S C																																																																
		STD	0000	0223	2988	2389	0040288	0000	14523																																																																								
190		OBS	0000	0223	29878	2389			14523																																																																								
		STD	0010	-0057	3242	2607	0019510	0030	14432																																																																								
190		OBS	0010	-0057	32415	2607			14432																																																																								
		STD	0020	-0151	3299	2656	0014836	0047	14398																																																																								
190		OBS	0020	-0151	32987	2656			14398																																																																								
190		OBS	0029	-0168	33234	2676			14395																																																																								
		STD	0030	-0168	3325	2678	0012768	0061	14395																																																																								
		STD	0050	-0173	3341	2691	0011490	0085	14398																																																																								
190		OBS	0050	-0173	33413	2691			14398																																																																								
190		OBS	0070	-0176	33468	2695			14401																																																																								
		STD	0075	-0176	3347	2696	0011027	0113	14402																																																																								
190		OBS	0098	-0176	33501	2698			14406																																																																								
		STD	0100	-0175	3351	2699	0010704	0140	14407																																																																								
		STD	0125	-0162	3358	2704	0010184	0167	14419																																																																								
190		OBS	0147	-0150	33650	2710			14429																																																																								
		STD	0150	-0144	3366	2710	0009607	0191	14432																																																																								
190		OBS	0196	-0056	33817	2720			14483																																																																								
		STD	0200	-0053	3383	2721	0008635	0237	14486																																																																								
		STD	0250	-0011	3404	2736	0007231	0277	14516																																																																								
		STD	0300	0031	3421	2747	0006174	0310	14546																																																																								
190		OBS	0389		34448																																																																												
		STD	0400	0115	3447	2763	0004782	0365	14604																																																																								
		STD	0500	0199	3459	2767	0004589	0412	14660																																																																								
190		OBS	T0584	0270	34641	2765			14705																																																																								
		STD	0600	0252	3463	2765	0004821	0459	14700																																																																								
		STD	0700	0157	3457	2768	0004449	0505	14674																																																																								
190		OBS	0778	0104	34533	2769			14663																																																																								
		STD	0800	0098	3453	2769	0004276	0549	14664																																																																								
		STD	0900	0071	3450	2768	0004294	0592	14668																																																																								
190		OBS	T0979	0053	34484	2768			14673																																																																								
		STD	1000	0049	3448	2768	0004273	0634	14675																																																																								
		STD	1100	0031	3448	2769	0004129	0676	14683																																																																								
190		OBS	T1187	0017	34475	2769			14692																																																																								
		STD	1200	0015	3448	2770	0004034	0717	14693																																																																								
		STD	1300	-0001	3448	2770	0003896	0757	14702																																																																								
		STD	1400	-0015	3448	2771	0003770	0795	14713																																																																								
199		OBS	T1417	-0017	34475	2771			14715																																																																								
		STD	1500	-0026	3448	2772	0003628	0832	14725																																																																								
		STD	1750	-0043	3448	2773	0003441	0921	14760																																																																								
199		OBS	T1932	-0045	34484	2773			14790																																																																								
		STD	2000	-0043																																																																													
199		OBS	T2078	-0040																																																																													

TABLE II.—Continued

REFERENCE CTRY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311529	15	73245N	064580W		259	34	08	25	237	1969	WGS	025	2185		00	0	X		X8	6	9	0025
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
							34	S06	590	031	025	7	17									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SID ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
		STD	0000	0261	3015	2408	0038478	0000	14543													
237		OBS	0000	0261	30150	2408			14543													
		STD	0010	-0048	3246	2610	0019167	0029	14437													
237		OBS	0010	-0048	32464	2610			14437													
		STD	0020	-0138	3309	2664	0014078	0045	14405													
237		OBS	0021	-0143	33132	2667			14404													
		STD	0030	-0152	3330	2681	0012423	0059	14403													
237		OBS	0031	-0153	33317	2683			14403													
		STD	0050	-0168	3342	2691	0011448	0083	14401													
237		OBS	0052	-0169	33425	2692			14401													
		STD	0075	-0166	3347	2695	0011051	0111	14407													
237		OBS	0078	-0165	33480	2696			14408													
		STD	0100	-0161	3354	2701	0010510	0138	14414													
237		OBS	0104	-0158	33554	2702			14416													
		STD	0125	-0126	3364	2708	0009832	0163	14436													
		STD	0150	-0071	3375	2715	0009183	0187	14468													
237		OBS	0155	-0058	33775	2717			14475													
		STD	0200	0103	3402	2728	0008060	0230	14559													
237		OBS	0207	0125	34048	2729			14571													
		STD	0250	0130	3415	2736	0007268	0268	14581													
		STD	0300	0135	3426	2745	0006488	0303	14593													
		STD	0400	0146	3442	2757	0005390	0362	14617													
237		OBS	0415		34442																	
		STD	0500	0157	3451	2763	0004831	0413	14640													
		STD	0600	0168	3455	2766	0004655	0461	14662													
237		OBS	T0622	0170	34553	2766			14666													
		STD	0700	0141	3454	2767	0004536	0507	14666													
		STD	0800	0106	3452	2768	0004417	0551	14667													
237		OBS	0832	0095	34516	2768			14668													
		STD	0900	0072	3450	2769	0004272	0595	14669													
		STD	1000	0043	3449	2769	0004172	0637	14672													
237		OBS	T1040	0034	34480	2769			14675													
		STD	1100	0025	3448	2769	0004080	0678	14681													
		STD	1200	0011	3448	2770	0003964	0718	14691													
237		OBS	T1248	0005	34480	2770			14697													
		STD	1300	-0001	3448	2771	0003845	0757	14703													
		STD	1400	-0012	3449	2772	0003719	0795	14714													
		STD	1500	-0024	3449	2773	0003588	0832	14726													
244		OBS	T1503	-0024	34488	2773			14727													
		STD	1750	-0033	3449	2773	0003429	0920	14765													
		STD	2000	-0042	3450	2774	0003262	1003	14804													
244		OBS	T2009	-0042	34500	2774			14805													
244		OBS	T2162	-0039	34500	2774			14833													

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAZEN 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"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
					COLOR CODE	TRANS. IN		DIR.	SPEED OR FORCE			BARO- METER (mb)	DRY BULB	WET BULB		VIS. CODE	NO. OBS. DEPTH		SPECIAL OBSERVATIONS
311529	1S	73487N	065295W	259	35	08 26 043	1969	WGS	026	2195		00	0	X		X2	6 8	0026	
						22	S10	059	029	020	7	17							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Delta \rho$ OBS. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SIO ₄ -SI $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S CUT		
		STD	0000	0338	3049	2429	0036461	0000	14581	827									
043		OBS	0000	0338	30493	2429			14581	827									
		STD	0010	-0052	3266	2626	0017682	0027	14438	1041									
043		OBS	0010	-0052	32656	2626			14438	1041									
		STD	0020	-0102	3322	2673	0013216	0043	14424	970									
043		OBS	0020	-0102	33216	2673			14424	970									
		STD	0030	-0161	3337	2687	0011901	0055	14400	818									
043		OBS	0030	-0161	33365	2687			14400	818									
		STD	0050	-0165	3348	2696	0011017	0078	14403	803									
043		OBS	0050	-0165	33477	2696			14403	803									
		STD	0075	-0174	3352	2700	0010655	0105	14404	798									
043		OBS	0075	-0174	33519	2700			14404	798									
		STD	0100	-0158	3357	2703	0010303	0131	14416	791									
043		OBS	0100	-0158	33568	2703			14416	791									
		STD	0125	-0128	3364	2708	0009826	0156	14435	744									
		STD	0150	-0087	3374	2715	0009226	0180	14460	704									
043		OBS	0150	-0087	33736	2715			14460	704									
		STD	0200	0024	3397	2728	0007988	0223	14523	649									
043		OBS	0200	0024	33966	2728			14523	649									
		STD	0250	0063	3411	2737	0007125	0261	14551	629									
		STD	0300	0095	3423	2745	0006431	0295	14575	611									
		STD	0400	0135	3441	2757	0005389	0354	14612	582									
043		OBS	T0400	0135	34409	2757			14612	582									
		STD	0500	0133	3447	2762	0004941	0406	14629	564									
		STD	0600	0122	3450	2765	0004661	0454	14641	548									
043		OBS	T0600	0122	34499	2765			14641	548									
		STD	0700	0096	3450	2766	0004497	0500	14646	534									
		STD	0800	0073	3449	2768	0004359	0544	14652	520									
043		OBS	T0803	0072	34492	2768			14652	520									
		STD	0900	0054	3448	2768	0004306	0587	14660	515									
		STD	1000	0035	3448	2769	0004162	0629	14668	510									
043		OBS	T1001	0035	34476	2769			14668	510									
		STD	1100	0021	3447	2769	0004093	0671	14679	471									
		STD	1200	0009	3447	2770	0004014	0711	14690	441									
043		OBS	T1206	0008	34471	2770			14691	439									
		STD	1300	0003	3448	2771	0003896	0751	14705	427									
		STD	1400	-0002	3448	2771	0003847	0790	14719	415									
		STD	1500	-0006	3448	2771	0003797	0828	14734	402									
051		OBS	1503		34484				402										
		STD	1750	-0019	3449	2772	0003616	0920	14771	366									
051		OBS	1997		34489				344										
		STD	2000	-0031	3449	2773	0003439	1009	14808	344									
051		OBS	T2165	-0039	34500	2774			14833	337									

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSOEN 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	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311529	1S		73555N	064150W		259	34	08	26	080	1969	WGS	027	0850		25	1	2		X2	6	8	0027
		WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
						22	S05	079		028	018	7	15										
MESSENGER TIME OF NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S						
		STD	0000	0266	3001	2396	0039569	0000	14544	854													
	080	OBS	0000	0266	30011	2396			14544	854													
		STD	0010	-0018	3289	2644	0015995	0028	14457	1017													
	080	OBS	0010	-0018	32894	2644			14457	1017													
		STD	0020	-0106	3323	2675	0013073	0042	14423	949													
	080	OBS	0020	-0106	33233	2675			14423	949													
		STD	0030	-0130	3324	2676	0012957	0055	14413	848													
	080	OBS	0030	-0130	33238	2676			14413	848													
		STD	0050	-0119	3344	2692	0011429	0080	14424	773													
	080	OBS	0050	-0119	33440	2692			14424	773													
		STD	0075	-0163	3350	2698	0010844	0108	14409	770													
	080	OBS	0075	-0163	33498	2698			14409	770													
		STD	0100	-0168	3355	2702	0010415	0134	14411	765													
	080	OBS	0100	-0168	33550	2702			14411	765													
		STD	0125	-0090	3366	2709	0009806	0159	14453	715													
		STD	0150	-0028	3377	2715	0009220	0183	14488	674													
	080	OBS	0151	-0026	33774	2715			14489	673													
		STD	0200	0046	3398	2728	0008008	0226	14533	624													
	080	OBS	0201	0047	33987	2729			14534	623													
		STD	0250	0123	3418	2739	0006994	0264	14579	598													
		STD	0300	0182	3434	2748	0006212	0297	14615	583													
	080	OBS	T0300	0182	34344	2748			14615	583													
		STD	0400	0240	3455	2760	0005201	0354	14660	582													
	080	OBS	T0401	0241	34554	2760			14661	582													
		STD	0500	0227	3458	2763	0004939	0405	14671	567													
	080	OBS	T0503	0226	34577	2763			14671	566													
		STD	0600	0188	3457	2766	0004682	0453	14671	556													
	080	OBS	T0605	0186	34570	2766			14671	555													
		STD	0700	0137	3454	2767	0004502	0499	14665	530													
		STD	0800	0070	3450	2768	0004275	0542	14651	503													
	080	OBS	T0806	0065	34498	2769			14650	501													
	080	OBS	T0825	0050	34490	2769			14646	481													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 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		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311529	1S	74030N	063100W	259	43	08	26	106	1969	WGS	028	0723	25	1	2			X2	6	8		0028		
						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													
								22	S08	103	028	018	7	15										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	NOOC				
		STD	0000	0464	3045	2413		0037938		0000		14634	768											
106		OBS	0000	0464	30445	2413						14634	768											
		STD	0010	0029	3288	2640		0016314		0027		14478	988											
106		OBS	0010	0029	32880	2640						14478	988											
106		OBS	0019	-0065	33199	2670						14441	968											
		STD	0020	-0073	3321	2672		0013359		0042		14438	957											
106		OBS	0028	-0127	33304	2681						14415	882											
		STD	0030	-0131	3331	2682		0012402		0055		14414	870											
106		OBS	0047	-0154	33391	2689						14407	794											
		STD	0050	-0154	3340	2689		0011636		0079		14407	792											
106		OBS	0070	-0154	33464	2695						14411	775											
		STD	0075	-0151	3347	2695		0011090		0107		14414	771											
106		OBS	0093	-0127	33518	2698						14429	750											
		STD	0100	-0102	3356	2701		0010539		0134		14442	732											
		STD	0125	-0025	3370	2709		0009774		0160		14484	680											
106		OBS	T0136	0002	33753	2712						14499	663											
		STD	0150	0026	3382	2716		0009114		0183		14513	650											
106		OBS	0181	0075	33957	2724						14543	626											
		STD	0200	0099	3403	2729		0007958		0226		14557	617											
		STD	0250	0154	3419	2738		0007143		0264		14593	598											
106		OBS	0274	0177	34264	2742						14608	591											
		STD	0300	0206	3434	2746		0006436		0298		14626	588											
106		OBS	0369	0247	34490	2755						14657	578											
		STD	0400	0237	3452	2758		0005396		0357		14658	570											
106		OBS	T0463	0220	34551	2762						14662	559											
		STD	0500	0218	3455	2762		0005023		0409		14667	559											
106		OBS	T0559	0198	34560	2764						14668	553											
		STD	0600	0166	3455	2766		0004642		0457		14661	543											
106		OBS	T0658	0121	34526	2767						14650	524											
106		OBS	T0678	0106	34516	2767						14647	516											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 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		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311529	1S	74075N	062080W	259	42	08	26	128	1969	WGS	029	0625	26	0	2			X2	6	8		0029		
						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													
								22	S10	098	028	021	7	15										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	NOOC				
		STD	0000	0377	3026	2407		0038525		0000		14595	796											
128		OBS	0000	0377	30263	2407						14595	796											
		STD	0010	-0037	3293	2648		0015642		0027		14449	977											
128		OBS	0011	-0061	33064	2659						14440	995											
		STD	0020	-0134	3323	2675		0013029		0041		14409	804											
128		OBS	0020	-0134	33228	2675						14409	804											
		STD	0030	-0134	3328	2679		0012624		0054		14412	792											
128		OBS	0031	-0134	33285	2680						14412	791											
		STD	0050	-0156	3339	2689		0011677		0079		14406	798											
128		OBS	0050	-0156	33394	2689						14406	798											
		STD	0075	-0151	3348	2696		0011036		0107		14414	789											
128		OBS	0076	-0151	33480	2696						14414	788											
		STD	0100	-0154	3353	2700		0010606		0134		14417	756											
128		OBS	0101	-0154	33533	2700						14418	754											
		STD	0125	-0084	3364	2707		0009981		0160		14456	709											
128		OBS	T0127	-0078	33647	2707						14459	705											
		STD	0150	-0007	3379	2715		0009170		0184		14498	662											
128		OBS	0152	-0002	33804	2716						14501	659											
		STD	0200	0085	3402	2729		0007943		0226		14551	616											
128		OBS	0203	0090	34029	2729						14554	614											
		STD	0250	0151	3419	2738		0007136		0264		14591	599											
		STD	0300	0199	3436	2748		0006251		0298		14623	582											
128		OBS	T0301	0200	34360	2748						14624	582											
128		OBS	T0399	0245	34538	2759						14662	581											
		STD	0400	0245	3454	2759		0005317		0355		14662	581											
128		OBS	T0491	0203	34548	2763						14659	548											
		STD	0500	0193																				
128		OBS	T0585	0148																				
128		OBS	0596	0149																				

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. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311529	1S		74140N	061010W	259	41	08	26	152	1969	WGS	030	0642		21	1	2		X2	6	8		0030
						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	S06	129	032	024	7	15									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DTH. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CD						
		STD	0000	0444	2983	2367	0042382	0000	14618	784													
152		OBS	0000	0444	29831	2367			14618	784													
		STD	0010	0121	3265	2617	0018541	0030	14517	988													
152		OBS	0010	0121	32653	2617			14517	988													
		STD	0020	-0063	3314	2665	0013947	0047	14441	1001													
152		OBS	0020	-0063	33138	2665			14441	1001													
		STD	0030	-0137	3328	2680	0012592	0060	14410	840													
152		OBS	0030	-0137	33283	2680			14410	840													
		STD	0050	-0145	3336	2686	0011951	0085	14411	806													
152		OBS	0050	-0145	33362	2686			14411	806													
		STD	0075	-0151	3342	2691	0011474	0114	14413	884													
152		OBS	0076	-0151	33425	2691			14413	887													
		STD	0100	-0114	3351	2697	0010880	0142	14436	754													
152		OBS	0101	-0111	33512	2697			14438	750													
		STD	0125	-0013	3366	2705	0010136	0168	14489	676													
152		OBS	0126	-0010	33667	2706			14491	674													
		STD	0150	0034	3381	2715	0009234	0192	14517	657													
152		OBS	0152	0038	33823	2716			14519	656													
		STD	0200	0132	3407	2730	0007879	0235	14573	618													
152		OBS	0202	0135	34080	2730			14575	617													
		STD	0250	0189	3425	2740	0006957	0272	14609	598													
		STD	0300	0222	3438	2748	0006268	0305	14633	581													
152		OBS	0304	0223	34388	2749			14635	580													
		STD	0400	0209	3450	2758	0005336	0363	14646	555													
152		OBS	T0403	0209	34499	2759			14646	554													
		STD	0500	0217	3457	2764	0004891	0414	14667	651													
152		OBS	T0504	0217	34572	2764			14668	653													
		STD	0600	0152	3455	2767	0004523	0461	14655	649													
152		OBS	T0608	0149	34549	2767			14655	649													
152		OBS	T0633	0141	34546	2767			14655	544													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	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		NOCC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311529	15	74180N	059550W		258	49	08	26	175	1969	WGS	031		0732		22	1	X		X2	6	8	0031
						WATER		WIND		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. INCH	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB											
								14	S05	149	041	033	7	15									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SCC						
		STD	0000	0504	3068	2428	0036547	0000	14654	746													
175		OBS	0000	0504	30682	2428			14654	746													
		STD	0010	0100	3254	2609	0019287	0028	14506	949													
175		OBS	0010	0100	32539	2609			14506	949													
		STD	0020	-0046	3309	2660	0014417	0045	14448	990													
175		OBS	0020	-0046	33085	2660			14448	990													
		STD	0030	-0118	3324	2675	0013007	0058	14419	833													
175		OBS	0030	-0118	33236	2675			14419	833													
		STD	0050	-0137	3334	2684	0012142	0084	14414	779													
175		OBS	0051	-0138	33342	2684			14414	777													
		STD	0075	-0099	3346	2693	0011327	0113	14438	746													
175		OBS	0076	-0097	33468	2693			14439	744													
		STD	0100	-0016	3362	2702	0010433	0140	14483	682													
175		OBS	0102	-0010	33628	2703			14486	678													
		STD	0125	0035	3375	2710	0009697	0165	14512	662													
		STD	0150	0080	3387	2717	0009047	0189	14538	642													
175		OBS	T0152	0083	33884	2718			14540	640													
		STD	0200	0156	3411	2731	0007748	0231	14584	595													
175		OBS	0204	0161	34128	2732			14587	592													
		STD	0250	0191	3426	2741	0006898	0267	14610	579													
		STD	0300	0212	3437	2748	0006260	0300	14629	565													
175		OBS	T0305	0213	34383	2749			14630	564													
		STD	0400	0214	3450	2758	0005344	0358	14648	655													
175		OBS	T0406	0214	34504	2759			14649	658													
		STD	0500	0190	3453	2762	0004958	0410	14655	657													
175		OBS	T0505	0189	34534	2763			14655	654													
		STD	0600	0166	3454	2765	0004717	0458	14661	534													
175		OBS	T0606	0164	34545	2766			14661	530													
		STD	0700	0139	3454	2767	0004519	0504	14665	519													
175		OBS	T0706	0138	34540	2767			14666	517													
175		OBS	T0721	0135	34539	2767			14667	511													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	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		NOCC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
311529		1S	74290N	058470W		258	48	08	26	198	1969	WGS	032		0342		00	0	X		X2	6	8		0032
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. INCH	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
									14	S05	149	041	033	7	12										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH								
		STD	0000	0469	3091	2449	0034505		0000	14643	791														
198		OBS	0000	0469	30907	2449				14643	791														
		STD	0010	0006	3287	2641	0016306		0025	14468	993														
198		OBS	0010	0006	32867	2641				14468	993														
		STD	0020	-0117	3322	2674	0013139		0040	14417	878														
198		OBS	0021	-0124	33242	2676				14414	870														
		STD	0030	-0142	3329	2680	0012525		0053	14408	836														
198		OBS	0031	-0143	33292	2680				14408	833														
		STD	0050	-0151	3336	2686	0011951		0077	14408	789														
198		OBS	0052	-0152	33361	2686				14408	786														
		STD	0075	-0134	3342	2691	0011522		0107	14421	766														
198		OBS	0077	-0130	33426	2691				14423	763														
		STD	0100	-0056	3360	2702	0010409		0134	14464	716														
198		OBS	0103	-0046	33622	2704				14470	711														
		STD	0125	0031	3369	2706	0010132		0160	14510	690														
198		OBS	T0130	0044	33714	2707				14517	684														
		STD	0150	0081	3388	2718	0008977		0184	14539	658														
198		OBS	0154	0087	33909	2720				14543	654														
		STD	0200	0138	3406	2729	0007997		0226	14575	632														
198		OBS	T0207	0145	34077	2730				14580	629														
		STD	0250	0166	3416	2735	0007459		0265	14597	618														
		STD	0300	0196	3428	2742	0006807		0300	14621	601														
198		OBS	T0306	0200	34292	2743				14623	599														
198		OBS	T0319	0209	34328	2745				14630	594														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311529	1S	74298N	057470W	258	47	08	26	225	1969	WGS	033	0850	00	0	X		X2	6	8	0033		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. INT.	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
								00	500	169	044	029	8	15								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C					
		STD	0000	0362	3081	2452	0034269	0000	14596	863												
225		OBS	0000	0362	30809	2452			14596	863												
		STD	0010	0340	3205	2552	0024736	0030	14605	977												
225		OBS	0010	0340	32046	2552			14605	977												
		STD	0020	0067	3283	2635	0016872	0050	14497	1046												
225		OBS	0020	0067	32832	2635			14497	1046												
		STD	0030	0099	3308	2652	0015177	0066	14516	951												
225		OBS	0030	0099	33078	2652			14516	951												
		STD	0050	-0005	3335	2680	0012526	0094	14476	806												
225		OBS	0050	-0005	33354	2680			14476	806												
		STD	0075	0002	3359	2699	0010752	0123	14487	723												
225		OBS	0076	0002	33594	2699			14487	721												
		STD	0100	0017	3369	2706	0010062	0149	14499	694												
225		OBS	0101	0018	33697	2707			14500	693												
		STD	0125	0049	3378	2712	0009547	0174	14519	662												
		STD	0150	0071	3385	2716	0009144	0197	14534	634												
225		OBS	T0153	0073	33863	2717			14536	631												
		STD	0200	0086	3400	2727	0008101	0240	14551	590												
225		OBS	0202	0087	34005	2728			14552	589												
		STD	0250	0125	3412	2734	0007462	0279	14579	585												
		STD	0300	0151	3422	2741	0006908	0315	14600	578												
225		OBS	T0304	0152	34224	2741			14601	577												
		STD	0400	0161	3435	2750	0006033	0380	14623	551												
225		OBS	T0403	0161	34355	2751			14623	550												
		STD	0500	0180	3447	2758	0005359	0437	14649	545												
225		OBS	T0501	0180	34466	2758			14649	545												
		STD	0600	0191	3452	2762	0005081	0489	14671	544												
225		OBS	T0602	0191	34524	2762			14672	544												
		STD	0700	0195	3454	2763	0005011	0539	14690	546												
225		OBS	T0799	0198	34554	2764			14708	548												
		STD	0800	0198	3455	2764	0004977	0589	14708	548												
225		OBS	T0831	0199	34555	2764			14714	550												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311529	1S	75570N	060470W	259	50	08	27	149	1969	WGS	034	0164	00	0	X		X2	4	8	0034		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. INT.	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
								00	500	168	028	021	7	10								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C					
		STD	0000	0192	2661	2130	0065005	0000	14465	841												
149		OBS	0000	0192	26613	2130			14465	841												
		STD	0010	0218	3177	2540	0025871	0045	14548	1072												
149		OBS	0010	0218	31771	2540			14548	1072												
		STD	0020	0044	3269	2624	0017874	0067	14484	1028												
149		OBS	0020	0044	32685	2624			14484	1028												
		STD	0030	-0030	3293	2647	0015655	0084	14455	927												
149		OBS	0030	-0030	32931	2647			14455	927												
		STD	0050	-0055	3320	2670	0013474	0113	14451	722												
149		OBS	0050	-0055	33202	2670			14451	722												
		STD	0075	-0038	3343	2688	0011776	0145	14466	611												
149		OBS	0075	-0038	33432	2688			14466	611												
		STD	0100	-0012	3357	2698	0010856	0173	14484	604												
149		OBS	0100	-0012	33567	2698			14484	604												
		STD	0125	0017	3368	2705	0010157	0199	14503	594												
149		OBS	0125	0017	33677	2705			14503	594												
		STD	0150		3375					589												
149		OBS	0150		33750					589												
149		OBS	0155		33774					585												

TABLE II.—Continued

REFERENCE CITY CODE	IO. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT NO.	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
311529		1S	75450N	061020W		259	51	08	27	198	1969	WGS	035	0439		00	0	X		X1	6	7		0035
						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												
										00	500	149	043	033	7	14								
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C						
		STD	0000	0527	3058	2417	0037557		0000	14662	750													
198		OBS	0000	0527	30579	2417				14662	750													
		STD	0010	0479	3183	2521	0027684		0033	14661	886													
198		OBS	0010	0479	31827	2521				14661	886													
		STD	0020	0107	3284	2633	0017066		0055	14515	1023													
198		OBS	0020	0107	32836	2633				14515	1023													
		STD	0030	-0011	3310	2660	0014421		0071	14466	943													
198		OBS	0030	-0011	33103	2660				14466	943													
		STD	0050	-0053	3335	2682	0012350		0098	14454	652													
198		OBS	0051	-0054	33363	2683				14454	644													
		STD	0075	-0021	3353	2695	0011103		0127	14475	629													
198		OBS	0076	-0019	33536	2696				14476	628													
		STD	0100	0021	3367	2704	0010235		0153	14501	608													
198		OBS	0101	0023	33671	2704				14502	607													
		STD	0125	0054	3378	2711	0009576		0178	14521	601													
198		OBS	0127	0057	33786	2712				14523	600													
		STD	0150	0085	3388	2718	0009001		0201	14541	593													
198		OBS	0152	0087	33892	2719				14542	592													
		STD	0200	0122	3405	2729	0007961		0244	14568	584													
198		OBS	T0202	0123	34059	2730				14569	583													
		STD	0250	0158	3419	2738	0007172		0282	14594	566													
198		OBS	T0254	0160	34200	2738				14596	564													
		STD	0300	0176	3432	2747	0006346		0316	14612	540													
198		OBS	T0304	0177	34331	2748				14614	538													
		STD	0400	0197	3442	2753	0005802		0376	14640	529													
198		OBS	T0404	0197	34422	2753				14640	528													
198		OBS	0429		34424						523													

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT NO.	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
311529	1S		76050N	061500W	259	61	08	28	156	1969	WGS	036	0512	-	00	0	X		X1	6	7		0036
						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											
								08		S05	105	027	006	7	14								
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C				
		STD	0000	0127	2322	1862		0090790		0000	14390												
156		OBS	0000	0127	23217	1862					14390												
		STD	0010	0077	3218	2582		0021881		0056	14491												
156		OBS	0010	0077	32182	2582					14491												
		STD	0020	-0048	3283	2640		0016399		0075	14444												
156		OBS	0020	-0048	32825	2640					14444												
		STD	0030	-0098	3300	2656		0014855		0091	14425												
156		OBS	0030	-0098	33003	2656					14425												
		STD	0050	-0065	3325	2675		0013053		0119	14447												
156		OBS	0050	-0065	33252	2675					14447												
		STD	0075	-0044	3343	2688		0011789		0150	14463												
156		OBS	0075	-0044	33427	2688					14463												
		STD	0100	-0024	3355	2697		0010945		0178	14478												
156		OBS	0100	-0024	33548	2697					14478												
		STD	0125	0020	3368	2705		0010180		0205	14504												
156		OBS	0125	0020	33676	2705					14504												
		STD	0150	0041	3378	2712		0009485		0229	14520												
156		OBS	0150	0041	33782	2712					14520												
		STD	0200	0069	3391	2721		0008677		0275	14542												
156		OBS	T0203	0071	33922	2722					14544												
		STD	0250	0104	3405	2730		0007869		0316	14568												
156		OBS	T0250	0104	34047	2730					14568												
		STD	0300	0135	3418	2738		0007114		0354	14592												
156		OBS	T0300	0135	34177	2738					14592												
		STD	0400	0172	3442	2755		0005566		0417	14629												
156		OBS	T0400	0172	34424	2755					14629												
		STD	0500		3445																		
156		OBS	0500		34449																		

TABLE III. Observed and interpolated oceanographic data from stations taken by USCGC WEST-
WIND, 21 September to 2 October 1969, prepared from NODC Listing No. 31-8160.

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRAFT METER	MARSDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	10. HO.					MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT				
318160		WE	74440N	064050W		259	44	09	21	109	1969	WE2	001		0320		00	0	0		20	6		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. DEPTHS	SPECIAL OBSERVATIONS							
						DT	S	16	S10	012	000	-006	7	11										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C C						
109		STD	0000	0085	3240	2599	0020264		0000	14496														
		OBS	0000	0085	32400	2599				14496														
		STD	0010	0085	3245	2603	0019881		0020	14498														
		OBS	0010	0085	32450	2603				14498														
		STD	0020	0080	3255	2611	0019091		0040	14499														
		OBS	0020	0080	32550	2611				14499														
		STD	0030	-0080	3318	2669	0013559		0056	14436														
		OBS	0030	-0080	33180	2669				14436														
		STD	0050	-0095	3336	2684	0012119		0082	14434														
		OBS	0050	-0095	33360	2684				14434														
		STD	0075	-0050	3353	2696	0010977		0110	14462														
		OBS	0075	-0050	33530	2696				14462														
		STD	0100	-0005	3375	2712	0009494		0136	14490														
		OBS	0100	-0005	33750	2712				14490														
		STD	0125	0040	3386	2719	0008888		0159	14516														
		OBS	0125	0040	33860	2719				14516														
	STD	0150	0075	3394	2723	0008485		0181	14537															
	OBS	0150	0075	33940	2723				14537															
	STD	0200	0134	3413	2735	0007439		0221	14575															
	OBS	0200	0134	34130	2735				14575															
	STD	0250	0175	3427	2743	0006698		0256	14603															
	OBS	0250	0175	34270	2743				14603															

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DEPT INDEX	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
CRUY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318160	WE		74540N	064030W		259	44	09	21	124	1969	WE2	002	0230		00	2	0		26	6	0002
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	S	32	S08	010	003	-003	7	10								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SIO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S	C			
124		STD	0000	0068	3250	2608	0019411		0000	14489												
		OBS	0000	0068	32500	2608				14489												
		STD	0010	0066	3255	2612	0019018		0019	14491												
		OBS	0010	0066	32550	2612				14491												
		STD	0020	0035	3295	2646	0015807		0037	14484												
		OBS	0020	0035	32950	2646				14484												
		STD	0030	-0041	3330	2678	0012789		0051	14455												
		OBS	0030	-0041	33300	2678				14455												
		STD	0050	-0056	3350	2694	0011192		0075	14455												
		OBS	0050	-0056	33500	2694				14455												
		STD	0075	-0018	3370	2709	0009820		0101	14479												
		OBS	0075	-0018	33700	2709				14479												
		STD	0100	0028	3377	2712	0009510		0125	14505												
		OBS	0100	0028	33770	2712				14505												
	STD	0125	0053	3389	2720	0008734		0148	14522													
	OBS	0125	0053	33890	2720				14522													
	STD	0150	0091	3399	2726	0008205		0169	14545													
	OBS	0150	0091	33990	2726				14545													
	STD	0200	0120	3406	2730	0007872		0210	14567													
	OBS	0200	0120	34060	2730				14567													

TABLE III.—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'MPL'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	TYPE		AMT
318160	WE		75049N	064040W		259	54	09	21	141	1969	WE2 003		0120		32	1	0		01	3	0003	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	32	S10	000	008	-006	6	07									
MESSENGR TIME OF HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
141			STD	0000	0080	3240	2599	0020237		0000	14493												
			OBS	0000	0080	32400	2599				14493												
			STD	0010	0071	3244	2603	0019883		0020	14491												
			OBS	0010	0071	32440	2603				14491												
			STD	0020	0030	3303	2652	0015172		0038	14483												
			OBS	0020	0030	33030	2652				14483												
			STD	0030	-0040	3332	2679	0012640		0051	14456												
			OBS	0030	-0040	33320	2679				14456												
			STD	0050	-0040	3361	2702	0010417		0075	14463												
			OBS	0050	-0040	33610	2702				14463												
			STD	0075	0010	3376	2712	0009497		0099	14493												
			OBS	0075	0010	33760	2712				14493												
			STD	0100	0047	3385	2718	0009005		0123	14515												
			OBS	0100	0047	33850	2718				14515												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			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
318160	WE		75140N	064040W		259	54	09	21	158	1969	WE2 004		0160		00	0	0		00	6	6	0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	32	S10	000	008	-006	7	08									
MESSENGR TIME OF HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
158			STD	0000	0080	3215	2579	0022143		0000	14490												
			OBS	0000	0080	32150	2579				14490												
			STD	0010	0070	3239	2599	0020259		0021	14490												
			OBS	0010	0070	32390	2599				14490												
			STD	0020	0063	3263	2619	0018390		0041	14492												
			OBS	0020	0063	32630	2619				14492												
			STD	0030	-0084	3322	2673	0013239		0056	14434												
			OBS	0030	-0084	33220	2673				14434												
			STD	0050	-0068	3351	2696	0011069		0081	14449												
			OBS	0050	-0068	33510	2696				14449												
			STD	0075	0002	3373	2710	0009686		0107	14489												
			OBS	0075	0002	33730	2710				14489												
			STD	0100	0028	3380	2715	0009282		0130	14506												
			OBS	0100	0028	33800	2715				14506												
			STD	0125	0055	3391	2722	0008593		0153	14524												
			OBS	0125	0055	33910	2722				14524												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			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
318160	WE		75240N	064070W		259	54	09	21	171	1969	WE2 005		0150		00	0	0		00	6	6	0005
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	32	S10	993	008	-006	7	08									
MESSENGR TIME OF HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
171			STD	0000	0090	3246	2603	0019834		0000	14499												
			OBS	0000	0090	32460	2603				14499												
			STD	0010	0083	3247	2605	0019718		0020	14497												
			OBS	0010	0083	32470	2605				14497												
			STD	0020	0050	3295	2645	0015883		0038	14491												
			OBS	0020	0050	32950	2645				14491												
			STD	0030	-0076	3346	2692	0011430		0051	14441												
			OBS	0030	-0076	33460	2692				14441												
			STD	0050	-0086	3354	2699	0010773		0073	14441												
			OBS	0050	-0086	33540	2699				14441												
			STD	0075	-0022	3371	2710	0009725		0099	14477												
			OBS	0075	-0022	33710	2710				14477												
			STD	0100	0025	3384	2718	0008961		0122	14505												
			OBS	0100	0025	33840	2718				14505												
			STD	0125	0055	3390	2721	0008669		0144	14523												
			OBS	0125	0055	33900	2721				14523												

TABLE III.—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 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	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75330N	064040W		259	54	09	21	190	1969	WE2	006	0450	00	00	00		00	6	7	0006	
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB											
						DT	S	32	S05	986	010	-003	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	σ_{θ}					
190		STD	0000	0080	3230	2591	0020999		0000	14492													
		OBS	0000	0080	32300	2591				14492													
		STD	0010	0073	3247	2605	0019664		0020	14493													
		OBS	0010	0073	32470	2605				14493													
		STD	0020	0055	3281	2633	0016976		0039	14491													
		OBS	0020	0055	32810	2633				14491													
		STD	0030	-0052	3324	2673	0013204		0054	14449													
		OBS	0030	-0052	33240	2673				14449													
		STD	0050	-0076	3343	2689	0011651		0079	14444													
		OBS	0050	-0076	33430	2689				14444													
		STD	0075	-0067	3358	2701	0010527		0106	14455													
		OBS	0075	-0067	33580	2701				14455													
		STD	0100	-0003	3373	2710	0009657		0132	14490													
		OBS	0100	-0003	33730	2710				14490													
		STD	0125	0041	3382	2715	0009198		0155	14516													
		OBS	0125	0041	33820	2715				14516													
		STD	0150	0064	3392	2722	0008570		0177	14532													
		OBS	0150	0064	33920	2722				14532													
		STD	0200	0103	3407	2732	0007682		0218	14560													
		OBS	0200	0103	34070	2732				14560													
		STD	0250	0152	3424	2742	0006750		0254	14592													
		OBS	0250	0152	34240	2742				14592													
		STD	0300	0175	3434	2748	0006187		0286	14612													
		OBS	0300	0175	34340	2748				14612													
		STD	0400	0184	3444	2756	0005544		0345	14634													
		OBS	0400	0184	34440	2756				14634													

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 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	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75440N	064040W		259	54	09	21	202	1969	WE2	007	0610	00	00	00		70	X	9	0007	
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB											
						DT	S	00	S00	991	010	-003	6	15									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	σ_{θ}					
202		STD	0000	0060	3260	2616	0018607		0000	14487													
		OBS	0000	0060	32600	2616				14487													
		STD	0010	0052	3260	2617	0018564		0019	14485													
		OBS	0010	0052	32600	2617				14485													
		STD	0020	0040	3290	2642	0016214		0036	14485													
		OBS	0020	0040	32900	2642				14485													
		STD	0030	-0063	3327	2676	0012932		0051	14445													
		OBS	0030	-0063	33270	2676				14445													
		STD	0050	-0071	3348	2693	0011287		0075	14447													
		OBS	0050	-0071	33480	2693				14447													
		STD	0075	-0025	3365	2705	0010169		0102	14475													
		OBS	0075	-0025	33650	2705				14475													
		STD	0100	0007	3380	2716	0009173		0126	14496													
		OBS	0100	0007	33800	2716				14496													
		STD	0125	0053	3386	2718	0008962		0148	14522													
		OBS	0125	0053	33860	2718				14522													
		STD	0150	0062	3393	2723	0008482		0170	14531													
		OBS	0150	0062	33930	2723				14531													
		STD	0200	0103	3405	2730	0007833		0211	14560													
		OBS	0200	0103	34050	2730				14560													
		STD	0250	0154	3424	2742	0006765		0248	14593													
		OBS	0250	0154	34240	2742				14593													
		STD	0300	0180	3435	2749	0006151		0280	14615													
		OBS	0300	0180	34350	2749				14615													
		STD	0400	0190	3446	2757	0005443		0338	14637													
		OBS	0400	0190	34460	2757				14637													
		STD	0500	0164	3448	2760	0005115		0391	14642													
		OBS	0500	0164	34480	2760				14642													
		STD	0600	0137	3448	2762	0004924		0441	14647													
		OBS	0600	0137	34480	2762				14647													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSSEN 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	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE		75540N	064040W		259	54	09	21	215	1969	WE2	008	0600		06	0	2		71	7	8	0008
						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											
						DT	S	06	S16	983	-017		6	15									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?		$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER					
215		STD	0000	-0018	3100	2491	0030498		0000	14429													
		OBS	0000	-0018	31000	2491				14429													
		STD	0010	0061	3200	2568	0023187		0027	14481													
		OBS	0010	0061	32000	2568				14481													
		STD	0020	0060	3250	2608	0019366		0048	14489													
		OBS	0020	0060	32500	2608				14489													
		STD	0030	-0025	3298	2651	0015301		0065	14458													
		OBS	0030	-0025	32980	2651				14458													
		STD	0050	-0050	3328	2676	0012898		0094	14454													
		OBS	0050	-0050	33280	2676				14454													
		STD	0075	-0052	3337	2684	0012192		0125	14459													
		OBS	0075	-0052	33370	2684				14459													
		STD	0100	-0018	3361	2702	0010500		0153	14482													
		OBS	0100	-0018	33610	2702				14482													
		STD	0125	0028	3374	2710	0009736		0179	14509													
		OBS	0125	0028	33740	2710				14509													
		STD	0150	0043	3380	2714	0009360		0203	14521													
		OBS	0150	0043	33800	2714				14521													
		STD	0200	0077	3395	2724	0008423		0247	14546													
		OBS	0200	0077	33950	2724				14546													
	STD	0250	0114	3413	2736	0007310		0286	14574														
	OBS	0250	0114	34130	2736				14574														
	STD	0300	0165	3428	2744	0006562		0321	14607														
	OBS	0300	0165	34280	2744				14607														
	STD	0400	0171	3441	2754	0005664		0382	14628														
	OBS	0400	0171	34410	2754				14628														
	STD	0500	0169	3448	2760	0005156		0436	14645														
	OBS	0500	0169	34480	2760				14645														
	STD	0600	0150	3448	2761	0005032		0487	14653														
	OBS	0600	0150	34480	2761				14653														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSSEN 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	IO. NO.	10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DIR.	HGT	PER	SEA			TYPE	AMT						
318160	WE	75530N	065150W		259	55	09	21	238	1969	WE2	009	0650		06	0	2		00	7	8	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										
						DT	S	06	S15	981	-021	-034	6	15								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?		$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER				
238		STD	0000	-0010	3030	2435	0035893		0000	14423												
		OBS	0000	-0010	30300	2435				14423												
		STD	0010	-0010	3060	2459	0033586		0035	14429												
		OBS	0010	-0010	30600	2459				14429												
		STD	0020	0055	3220	2584	0021628		0062	14483												
		OBS	0020	0055	32200	2584				14483												
		STD	0030	-0040	3275	2633	0016999		0082	14448												
		OBS	0030	-0040	32750	2633				14448												
		STD	0050	-0072	3314	2666	0013884		0113	14442												
		OBS	0050	-0072	33140	2666				14442												
		STD	0075	-0061	3329	2678	0012767		0146	14453												
		OBS	0075	-0061	33290	2678				14453												
		STD	0100	-0039	3347	2691	0011473		0176	14470												
		OBS	0100	-0039	33470	2691				14470												
		STD	0125	-0003	3363	2702	0010413		0204	14493												
		OBS	0125	-0003	33630	2702				14493												
		STD	0150	0014	3371	2708	0009886		0229	14506												
		OBS	0150	0014	33710	2708				14506												
		STD	0200	0060	3391	2722	0008622		0275	14538												
		OBS	0200	0060	33910	2722				14538												
	STD	0250	0120	3406	2730	0007881		0316	14576													
	OBS	0250	0120	34060	2730				14576													
	STD	0300	0149	3424	2742	0006742		0353	14599													
	OBS	0300	0149	34240	2742				14599													
	STD	0400	0180	3443	2755	0005586		0415	14632													
	OBS	0400	0180	34430	2755				14632													
	STD	0500	0173	3449	2761	0005115		0468	14647													
	OBS	0500	0173	34490	2761				14647													
	STD	0600	0139	3449	2763	0004866		0518	14648													

TABLE III.—Continued

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY STATION	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB		WET BULB	VIS. CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
318160	WE		75420N	065200W		259	55	09	22	021	1969	WE2	010	0570		06	0	2		00	7	8	0010	
						WATER		WIND		AIR TEMP. °C														
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						OT	S	06	S10	972	-006	-011	6	14										
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC							
021		STD	0000	0053	3265	2621	0018190	0000	14485															
		OBS	0000	0053	32650	2621			14485															
		STD	0010	0048	3266	2622	0018087	0018	14484															
		OBS	0010	0048	32660	2622			14484															
		STD	0020	0030	3292	2644	0016012	0035	14481															
		OBS	0020	0030	32920	2644			14481															
		STD	0030	-0063	3327	2676	0012932	0050	14445															
		OBS	0030	-0063	33270	2676			14445															
		STD	0050	-0076	3343	2689	0011651	0074	14444															
		OBS	0050	-0076	33430	2689			14444															
		STD	0075	-0036	3365	2706	0010120	0101	14470															
		OBS	0075	-0036	33650	2706			14470															
		STD	0100	0003	3375	2712	0009534	0126	14494															
		OBS	0100	0003	33750	2712			14494															
		STD	0125	0035	3385	2718	0008937	0149	14514															
		OBS	0125	0035	33850	2718			14514															
		STD	0150	0057	3389	2720	0008757	0171	14528															
		OBS	0150	0057	33890	2720			14528															
		STD	0200	0100	3405	2730	0007813	0213	14558															
		OBS	0200	0100	34050	2730			14558															
		STD	0250	0154	3424	2742	0006765	0249	14593															
		OBS	0250	0154	34240	2742			14593															
		STD	0300	0189	3436	2749	0006147	0281	14619															
		OBS	0300	0189	34360	2749			14619															
		STD	0400	0189	3443	2755	0005660	0340	14636															
		OBS	0400	0189	34430	2755			14636															
		STD	0500	0155	3447	2760	0005116	0394	14638															
		OBS	0500	0155	34470	2760			14638															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NODC STATION NUMBER	MARDEN 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
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318160	WE	75320N	065240W	259	55	09	22	038	1969	WE2	011	0140		06	0	2		00	7	8		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											
					DT	S	06	S10	968	-006	-011	6	08									
MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S					
038	STD		0000	0080	3260	2615	0018713	0000	14496													
	OBS		0000	0080	32600	2615			14496													
	STD		0010	0068	3260	2616	0018647	0019	14492													
	OBS		0010	0068	32600	2616			14492													
	STD		0020	-0040	3325	2673	0013179	0035	14454													
	OBS		0020	-0040	33250	2673			14454													
	STD		0030	-0057	3333	2681	0012496	0047	14448													
	OBS		0030	-0057	33330	2681			14448													
	STD		0050	-0069	3357	2700	0010606	0071	14449													
	OBS		0050	-0069	33570	2700			14449													
	STD		0075	-0035	3381	2718	0008903	0095	14473													
	OBS		0075	-0035	33810	2718			14473													
	STD		0100	0030	3386	2719	0008836	0117	14507													
	OBS		0100	0030	33860	2719			14507													
	STD		0125	0045	3389	2721	0008688	0139	14519													
	OBS		0125	0045	33890	2721			14519													

TABLE III.—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'PL'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
318160		WE	75220N	065290W		259	55	09	22	054	1969	WE2	012		0200				85	7	9		0012
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY RULR	WET RULR											
						DT	S	04	S11	961	-004	-011	6	10									
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	0050	3250	2609	0019320		0000		14481												
054		OBS	0000	0050	32500	2609					14481												
		STD	0010	0040	3253	2612	0019039		0019		14479												
		OBS	0010	0040	32530	2612					14479												
		STD	0020	-0060	3310	2662	0014249		0036		14442												
		OBS	0020	-0060	33100	2662					14442												
		STD	0030	-0115	3334	2683	0012219		0049		14421												
		OBS	0030	-0115	33340	2683					14421												
		STD	0050	-0081	3352	2697	0010944		0072		14443												
		OBS	0050	-0081	33520	2697					14443												
		STD	0075	-0019	3370	2709	0009815		0098		14479												
		OBS	0075	-0019	33700	2709					14479												
		STD	0100	0015	3377	2713	0009442		0122		14499												
		OBS	0100	0015	33770	2713					14499												
		STD	0125	0055	3390	2721	0008669		0145		14523												
		OBS	0125	0055	33900	2721					14523												
		STD	0150	0072	3394	2723	0008466		0166		14536												
		OBS	0150	0072	33940	2723					14536												
		STD	0200	0099	3400	2726	0008185		0208		14557												
		OBS	0200	0099	34000	2726					14557												

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'PL'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
318160		WE	75110N	065340W		259	55	09	22	069	1969	WE2	013		0250				85	7	9		0013
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY RULR	WET RULR											
						DT	S	04	S11	961	-004	-011	6	11									
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	0060	3220	2584	0021659		0000		14482												
069		OBS	0000	0060	32200	2584					14482												
		STD	0010	0052	3238	2599	0020243		0021		14482												
		OBS	0010	0052	32380	2599					14482												
		STD	0020	-0100	3315	2668	0013728		0038		14424												
		OBS	0020	-0100	33150	2668					14424												
		STD	0030	-0121	3331	2681	0012431		0051		14418												
		OBS	0030	-0121	33310	2681					14418												
		STD	0050	-0096	3347	2693	0011273		0075		14436												
		OBS	0050	-0096	33470	2693					14436												
		STD	0075	-0028	3367	2707	0010003		0101		14474												
		OBS	0075	-0028	33670	2707					14474												
		STD	0100	0007	3382	2717	0009021		0125		14496												
		OBS	0100	0007	33820	2717					14496												
		STD	0125	0057	3391	2722	0008605		0147		14524												
		OBS	0125	0057	33910	2722					14524												
		STD	0150	0075	3397	2726	0008257		0168		14538												
		OBS	0150	0075	33970	2726					14538												
		STD	0200	0119	3408	2732	0007713		0208		14567												
		OBS	0200	0119	34080	2732					14567												
		STD	0250	0160	3421	2739	0007036		0245		14595												
		OBS	0250	0160	34210	2739					14595												

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
318160	WE		75110N	065340W		259	55	09	22	069	1969	WE2	013		0250					85	7	9		0013
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULR	WET RULR												
						DT	S	04	S11	961	-004	-011	6	11										
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C							
069		STD	0000	0060	3220	2584	0021659	0000	14482															
		OBS	0000	0060	32200	2584			14482															
		STD	0010	0052	3238	2599	0020243	0021	14482															
		OBS	0010	0052	32380	2599			14482															
		STD	0020	-0100	3315	2668	0013728	0038	14424															
		OBS	0020	-0100	33150	2668			14424															
		STD	0030	-0121	3331	2681	0012431	0051	14418															
		OBS	0030	-0121	33310	2681			14418															
		STD	0050	-0096	3347	2693	0011273	0075	14436															
		OBS	0050	-0096	33470	2693			14436															
		STD	0075	-0028	3367	2707	0010003	0101	14474															
		OBS	0075	-0028	33670	2707			14474															
		STD	0100	0007	3382	2717	0009021	0125	14496															
		OBS	0100	0007	33820	2717			14496															
		STD	0125	0057	3391	2722	0008605	0147	14524															
		OBS	0125	0057	33910	2722			14524															
	STD	0150	0075	3397	2726	0008257	0168	14538																
	OBS	0150	0075	33970	2726			14538																
	STD	0200	0119	3408	2732	0007713	0208	14567																
	OBS	0200	0119	34080	2732			14567																
	STD	0250	0160	3421	2739	0007036	0245	14595																
	OBS	0250	0160	34210	2739			14595																

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DFT INCH	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318160	WE	75020N	065350W	259	55	09 22	084	1969	WE2	014	0310						85	8	7		0014
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
				QT	S	05	512	961	003	-002	12										
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C			
084		STD	0000	0053	3226	2589	0021166		0000	14479											
		OBS	0000	0053	32260	2589				14479											
		STD	0010	0053	3240	2601	0020095		0021	14483											
		OBS	0010	0053	32400	2601				14483											
		STD	0020	-0100	3321	2672	0013268		0037	14425											
		OBS	0020	-0100	33210	2672				14425											
		STD	0030	-0120	3332	2682	0012357		0050	14419											
		OBS	0030	-0120	33320	2682				14419											
		STD	0050	-0102	3346	2693	0011330		0074	14433											
		OBS	0050	-0102	33460	2693				14433											
		STD	0075	-0071	3364	2706	0010053		0101	14454											
		OBS	0075	-0071	33640	2706				14454											
		STD	0100	0005	3379	2715	0009239		0125	14495											
		OBS	0100	0005	33790	2715				14495											
		STD	0125	0042	3390	2722	0008596		0147	14518											
		OBS	0125	0042	33900	2722				14518											
		STD	0150	0084	3398	2726	0008237		0168	14542											
		OBS	0150	0084	33980	2726				14542											
		STD	0200	0149	3418	2738	0007168		0206	14582											
		OBS	0200	0149	34180	2738				14582											
		STD	0250	0187	3430	2744	0006565		0241	14609											
		OBS	0250	0187	34300	2744				14609											
		STD	0300	0203	3440	2751	0005960		0272	14625											
		OBS	0300	0203	34400	2751				14625											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
318160	WE		74515N	065410W	259	45	09 22	100	1969	WE2 015	0410						85	7	7	0015
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB									
						DT	S	05	512	961	003	-002	13							
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C			
100		STD	0000	0045	3215	2581	0021967	0000	14474											
		OBS	0000	0045	32150	2581			14474											
		STD	0010	0044	3217	2583	0021806	0022	14475											
		OBS	0010	0044	32170	2583			14475											
		STD	0020	-0070	3310	2663	0014212	0040	14437											
		OBS	0020	-0070	33100	2663			14437											
		STD	0030	-0118	3335	2684	0012133	0053	14420											
		OBS	0030	-0118	33350	2684			14420											
		STD	0050	-0127	3350	2697	0010944	0076	14421											
		OBS	0050	-0127	33500	2697			14421											
		STD	0075	-0115	3358	2703	0010355	0103	14432											
		OBS	0075	-0115	33580	2703			14432											
		STD	0100	-0010	3375	2712	0009470	0128	14488											
		OBS	0100	-0010	33750	2712			14488											
		STD	0125	0052	3387	2719	0008880	0150	14522											
		OBS	0125	0052	33870	2719			14522											
		STD	0150	0086	3400	2727	0008097	0172	14543											
		OBS	0150	0086	34000	2727			14543											
		STD	0200	0140	3415	2736	0007330	0210	14577											
		OBS	0200	0140	34150	2736			14577											
		STD	0250	0185	3430	2744	0006549	0245	14608											
		OBS	0250	0185	34300	2744			14608											
		STD	0300	0204	3441	2752	0005893	0276	14626											
		OBS	0300	0204	34410	2752			14626											
		STD	0400	0203	3449	2758	0005326	0332	14643											
		OBS	0400	0203	34490	2758			14643											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARDEN 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	NGT	PER		SEA	TYPE	
318160		WE	74415N	065490W		259	45	09	22	115	1969	WE2	016	0970					03	8	7	0016
						WATER		WIND		BARO- METER OR FORCE (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	S	10	S07	960	-006	-011	18									
MESSENGER TIME OF NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC					
115		STD	0000	0084	3200	2567	0023308	0000	14490													
		OBS	0000	0084	32000	2567			14490													
		STD	0010	0078	3200	2567	0023274	0023	14489													
		OBS	0010	0078	32000	2567			14489													
		STD	0020	-0098	3325	2676	0012968	0041	14427													
		OBS	0020	-0098	33250	2676			14427													
		STD	0030	-0117	3333	2683	0012289	0054	14420													
		OBS	0030	-0117	33330	2683			14420													
		STD	0050	-0139	3343	2691	0011446	0078	14415													
		OBS	0050	-0139	33430	2691			14415													
		STD	0075	-0143	3352	2699	0010729	0105	14418													
		OBS	0075	-0143	33520	2699			14418													
		STD	0100	-0100	3365	2708	0009857	0131	14444													
		OBS	0100	-0100	33650	2708			14444													
		STD	0125	-0017	3370	2709	0009812	0156	14488													
		OBS	0125	-0017	33700	2709			14488													
		STD	0150	0022	3388	2721	0008636	0179	14512													
		OBS	0150	0022	33880	2721			14512													
		STD	0200	0104	3406	2731	0007764	0220	14560													
		OBS	0200	0104	34060	2731			14560													
	STD	0250	0160	3428	2745	0006508	0256	14596														
	OBS	0250	0160	34280	2745			14596														
	STD	0300	0193	3445	2756	0005502	0286	14622														
	OBS	0300	0193	34450	2756			14622														
	STD	0400	0242	3455	2760	0005215	0339	14661														
	OBS	0400	0242	34550	2760			14661														
	STD	0500	0235	3455	2760	0005206	0391	14675														
	OBS	0500	0235	34550	2760			14675														
	STD	0600	0208	3453	2761	0005160	0443	14679														
	OBS	0600	0208	34530	2761			14679														
	STD	0700	0169	3451	2762	0005003	0494	14678														
	OBS	0700	0169	34510	2762			14678														
	STD	0800	0112	3449	2765	0004691	0542	14670														
	OBS	0800	0112	34490	2765			14670														
	STD	0900	0070	3448	2767	0004436	0588	14667														
	OBS	0900	0070	34480	2767			14667														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER 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	
318160		WE	74420N	067200W		259	47	09	22	159	1969	WE2 017		1010		32	1	2		00	6	8	0017	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE		(mba)	DRY BULB	WET BULB											
						OT	S	32	S10	968	-006	-011	7	19										
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC						
159		STD	0000	0140	3224	2583	0021798		0000	14518														
		OBS	0000	0140	32240	2583				14518														
		STD	0010	0133	3244	2599	0020234		0021	14519														
		OBS	0010	0133	32440	2599				14519														
		STD	0020	-0063	3310	2662	0014238		0038	14441														
		OBS	0020	-0063	33100	2662				14441														
		STD	0030	-0130	3335	2685	0012098		0051	14415														
		OBS	0030	-0130	33350	2685				14415														
		STD	0050	-0150	3350	2697	0010879		0074	14411														
		OBS	0050	-0150	33500	2697				14411														
		STD	0075	-0164	3363	2708	0009828		0100	14410														
		OBS	0075	-0164	33630	2708				14410														
		STD	0100	-0152	3368	2712	0009461		0124	14420														
		OBS	0100	-0152	33680	2712				14420														
		STD	0125	-0139	3375	2717	0008949		0147	14432														
		OBS	0125	-0139	33750	2717				14432														
		STD	0150	-0060	3390	2727	0008085		0169	14475														
		OBS	0150	-0060	33900	2727				14475														
		STD	0200	0046	3410	2738	0007097		0207	14535														
		OBS	0200	0046	34100	2738				14535														
	STD	0250	0108	3424	2745	0006436		0240	14573															
	OBS	0250	0108	34240	2745				14573															
	STD	0300	0137	3433	2750	0005973		0272	14595															
	OBS	0300	0137	34330	2750				14595															
	STD	0400	0185	3450	2760	0005101		0327	14635															
	OBS	0400	0185	34500	2760				14635															
	STD	0500	0181	3453	2763	0004882		0377	14651															
	OBS	0500	0181	34530	2763				14651															
	STD	0600	0154	3452	2764	0004765		0425	14655															
	OBS	0600	0154	34520	2764				14655															
	STD	0700	0121	3450	2765	0004669		0472	14657															
	OBS	0700	0121	34500	2765				14657															
	STD	0800	0080	3449	2767	0004430		0518	14655															
	OBS	0800	0080	34490	2767				14655															
	STD	0900	0055	3447	2767	0004390		0562	14660															
	OBS	0900	0055	34470	2767				14660															
	STD	1000	0040	3447	2768	0004275		0605	14670															
	OBS	1000	0040	34470	2768				14670															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY ROCK	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		SEA	TYPE		AMT		
318160	WE		74520N	067150W		259	47	09	22	175	1969	WE2	018		1000		00	0	0		73	6	7		0018
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																
						DT	S	00	S00	975	-006	-011	7	19											
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S CC								
175		STD	0000	0080	3202	2569	0023135	0000	14488																
		OBS	0000	0080	32020	2569			14488																
		STD	0010	0080	3205	2571	0022904	0023	14490																
		OBS	0010	0080	32050	2571			14490																
		STD	0020	-0120	3315	2668	0013667	0041	14415																
		OBS	0020	-0120	33150	2668			14415																
		STD	0030	-0157	3333	2684	0012180	0054	14402																
		OBS	0030	-0157	33330	2684			14402																
		STD	0050	-0155	3350	2698	0010866	0077	14408																
		OBS	0050	-0155	33500	2698			14408																
		STD	0075	-0163	3355	2702	0010445	0104	14409																
		OBS	0075	-0163	33550	2702			14409																
		STD	0100	-0152	3363	2708	0009845	0129	14420																
		OBS	0100	-0152	33630	2708			14420																
		STD	0125	-0145	3370	2713	0009313	0153	14428																
		OBS	0125	-0145	33700	2713			14428																
		STD	0150	-0087	3384	2723	0008431	0175	14461																
		OBS	0150	-0087	33840	2723			14461																
		STD	0200	0028	3403	2733	0007524	0215	14525																
		OBS	0200	0028	34030	2733			14525																
	STD	0250	0092	3421	2744	0006555	0250	14565																	
	OBS	0250	0092	34210	2744			14565																	
	STD	0300	0134	3435	2752	0005800	0281	14594																	
	OBS	0300	0134	34350	2752			14594																	
	STD	0400	0210	3450	2759	0005311	0337	14646																	
	OBS	0400	0210	34500	2759			14646																	
	STD	0500	0214	3455	2762	0005017	0389	14665																	
	OBS	0500	0214	34550	2762			14665																	
	STD	0600	0176	3455	2765	0004727	0437	14665																	
	OBS	0600	0176	34550	2765			14665																	
	STD	0700	0137	3453	2766	0004577	0484	14664																	
	OBS	0700	0137	34530	2766			14664																	
	STD	0800	0088	3450	2767	0004419	0529	14659																	
	OBS	0800	0088	34500	2767			14659																	
	STD	0900	0047	3448	2768	0004252	0572	14657																	
	OBS	0900	0047	34480	2768			14657																	
	STD	1000	0029	3448	2769	0004113	0614	14666																	
	OBS	1000	0029	34480	2769			14666																	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT 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		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DIR.	HGT	PER		SEA	TYPE			AMT							
318160	WE		75020N	067060W		259	57	09	22	192	1969	WE2	019			0510		32	1	2		00	6	7		0019		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																					
						DT	S	00	S00	977	-006	-011	7	14														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t					$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C							
192	STD	0000	0065	3200	2568	0023210	0000						14481															
	OBS	0000	0065	32000	2568								14481															
	STD	0010	0050	3290	2641	0016266	0020						14488															
	OBS	0010	0050	32900	2641								14488															
	STD	0020	-0130	3323	2675	0013025	0034						14411															
	OBS	0020	-0130	33230	2675								14411															
	STD	0030	-0153	3336	2686	0011959	0047						14404															
	OBS	0030	-0153	33360	2686								14404															
	STD	0050	-0168	3346	2695	0011141	0070						14401															
	OBS	0050	-0168	33460	2695								14401															
	STD	0075	-0170	3354	2701	0010504	0097						14406															
	OBS	0075	-0170	33540	2701								14406															
	STD	0100	-0160	3365	2710	0009669	0122						14416															
	OBS	0100	-0160	33650	2710								14416															
	STD	0125	-0152	3371	2714	0009216	0146						14425															
	OBS	0125	-0152	33710	2714								14425															
	STD	0150	-0023	3395	2729	0007873	0167						14493															
	OBS	0150	-0023	33950	2729								14493															
	STD	0200	0123	3414	2736	0007287	0205						14570															
	OBS	0200	0123	34140	2736								14570															
	STD	0250	0174	3432	2747	0006313	0239						14603															
	OBS	0250	0174	34320	2747								14603															
STD	0300	0208	3444	2754	0005700	0269						14628																
OBS	0300	0208	34440	2754								14628																
STD	0400	0230	3450	2757	0005484	0325						14655																
OBS	0400	0230	34500	2757								14655																
STD	0500	0195	3452	2761	0005076	0378						14657																
OBS	0500	0195	34520	2761								14657																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT 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		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DIR.	HGT	PER		SEA	TYPE			AMT							
318160	WE		75110N	067050W		259	57	09	22	212	1969	WE2	020			0440		00	0	0		01	6	6		0020		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																					
						DT	S	00	S00	975	-022	-036	7	13														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t					$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C							
212	STD	0000	0020	3220	2586	0021469	0000						14463															
	OBS	0000	0020	32200	2586								14463															
	STD	0010	0010	3235	2599	0020274	0021						14462															
	OBS	0010	0010	32350	2599								14462															
	STD	0020	-0083	3312	2665	0014014	0038						14432															
	OBS	0020	-0083	33120	2665								14432															
	STD	0030	-0114	3336	2685	0012069	0051						14422															
	OBS	0030	-0114	33360	2685								14422															
	STD	0050	-0130	3343	2691	0011472	0075						14419															
	OBS	0050	-0130	33430	2691								14419															
	STD	0075	-0130	3357	2703	0010384	0102						14425															
	OBS	0075	-0130	33570	2703								14425															
	STD	0100	-0098	3365	2708	0009864	0127						14445															
	OBS	0100	-0098	33650	2708								14445															
	STD	0125	-0008	3377	2714	0009322	0151						14493															
	OBS	0125	-0008	33770	2714								14493															
	STD	0150	0010	3382	2717	0009028	0174						14506															
	OBS	0150	0010	33820	2717								14506															
	STD	0200	0127	3410	2733	0007617	0216						14571															
	OBS	0200	0127	34100	2733								14571															
	STD	0250	0160	3426	2743	0006659	0251						14596															
	OBS	0250	0160	34260	2743								14596															
STD	0300	0192	3435	2748	0006247	0284						14620																
OBS	0300	0192	34350	2748								14620																
STD	0400	0193	3448	2758	0005318	0342						14639																
OBS	0400	0193	34480	2758								14639																

TABLE III.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT			
318160	WE		75220N	067020W		259	57	09	23	005	1969	WE2	021	0390		03	0	2		01	3	3	0021			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB														
						DT	S	03	S05	977	-022	-039	7	12												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-3107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiD ₄ -Si μg - at/l	pH	DOC								
		STD	0000	0010	3238	2601	0020048		0000	14461																
	005	OBS	0000	0010	32380	2601				14461																
		STD	0010	0008	3242	2604	0019730		0020	14462																
		OBS	0010	0008	32420	2604				14462																
		STD	0020	-0102	3317	2669	0013568		0037	14424																
		OBS	0020	-0102	33170	2669				14424																
		STD	0030	-0121	3337	2686	0011971		0049	14419																
		OBS	0030	-0121	33370	2686				14419																
		STD	0050	-0114	3345	2692	0011367		0073	14427																
		OBS	0050	-0114	33450	2692				14427																
		STD	0075	-0126	3355	2701	0010550		0100	14427																
		OBS	0075	-0126	33550	2701				14427																
		STD	0100	-0066	3375	2715	0009222		0125	14462																
		OBS	0100	-0066	33750	2715				14462																
		STD	0125	0004	3384	2719	0008849		0147	14499																
		OBS	0125	0004	33840	2719				14499																
		STD	0150	0057	3396	2726	0008225		0169	14529																
		OBS	0150	0057	33960	2726				14529																
		STD	0200	0128	3411	2733	0007548		0208	14572																
		OBS	0200	0128	34110	2733				14572																
		STD	0250	0171	3425	2742	0006818		0244	14601																
		OBS	0250	0171	34250	2742				14601																
		STD	0300	0192	3435	2748	0006247		0277	14620																
		OBS	0300	0192	34350	2748				14620																

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT			
318160	WE		75312N	065510W		259	55	09	23	021	1969	WE2	022	0350		03	0	2		01	X	2	0022			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB														
						DT	S	03	S10	988	-022	-039	7	12												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-3107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiD ₄ -Si μg - at/l	pH	DOC								
		STD	0000	0025	3240	2602	0019963		0000	14468																
	021	OBS	0000	0025	32400	2602				14468																
		STD	0010	0020	3255	2614	0018791		0019	14470																
		OBS	0010	0020	32550	2614				14470																
		STD	0020	-0070	3302	2656	0014825		0036	14436																
		OBS	0020	-0070	33020	2656				14436																
		STD	0030	-0118	3334	2684	0012210		0050	14420																
		OBS	0030	-0118	33340	2684				14420																
		STD	0050	-0115	3346	2693	0011288		0073	14426																
		OBS	0050	-0115	33460	2693				14426																
		STD	0075	-0100	3359	2703	0010329		0100	14439																
		OBS	0075	-0100	33590	2703				14439																
		STD	0100	-0050	3375	2714	0009289		0125	14469																
		OBS	0100	-0050	33750	2714				14469																
		STD	0125	0027	3384	2718	0008969		0148	14510																
		OBS	0125	0027	33840	2718				14510																
		STD	0150	0062	3398	2727	0008103		0169	14532																
		OBS	0150	0062	33980	2727				14532																
		STD	0200	0138	3413	2734	0007467		0208	14576																
		OBS	0200	0138	34130	2734				14576																
		STD	0250	0181	3431	2746	0006442		0243	14606																
		OBS	0250	0181	34310	2746				14606																
		STD	0300	0210	3442	2752	0005867		0273	14629																
		OBS	0300	0210	34420	2752				14629																

REFERENCE CTRY CODE	ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS INCHES	MARS DEN		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER		
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
318160		WE	75312N	065510W	259	55	09	23	021	1969	WE2	022	0350		03	0	2		01	X	2	0022		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
						DT	S	03	S10	988	-022	-039	7	12										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDWALT-3107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiD ₄ -Si μg - at/l	pH	S C						
		STD	0000	0025	3240	2602	0019963		0000	14468														
	021	OBS	0000	0025	32400	2602				14468														
		STD	0010	0020	3255	2614	0018791		0019	14470														
		OBS	0010	0020	32550	2614				14470														
		STD	0020	-0070	3302	2656	0014825		0036	14436														
		OBS	0020	-0070	33020	2656				14436														
		STD	0030	-0118	3334	2684	0012210		0050	14420														
		OBS	0030	-0118	33340	2684				14420														
		STD	0050	-0115	3346	2693	0011288		0073	14426														
		OBS	0050	-0115	33460	2693				14426														
		STD	0075	-0100	3359	2703	0010329		0100	14439														
		OBS	0075	-0100	33590	2703				14439														
		STD	0100	-0050	3375	2714	0009289		0125	14469														
		OBS	0100	-0050	33750	2714				14469														
		STD	0125	0027	3384	2718	0008969		0148	14510														
		OBS	0125	0027	33840	2718				14510														
		STD	0150	0062	3398	2727	0008103		0169	14532														
		OBS	0150	0062	33980	2727				14532														
		STD	0200	0138	3413	2734	0007467		0208	14576														
		OBS	0200	0138	34130	2734				14576														
		STD	0250	0181	3431	2746	0006442		0243	14606														
		OBS	0250	0181	34310	2746				14606														
		STD	0300	0210	3442	2752	0005867		0273	14629														
		OBS	0300	0210	34420	2752				14629														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	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	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160		WE	75390N	066460W		259	56	09	23	036	1969	WE2	023	0500		04	0	2		00	3	3	0023
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULB	WET RULB											
						DT	S	04	S08		984	-019					-031	7	14				
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH						
		STD	0000	0052	3254	2612		0019024	0000	14483													
	036	OBS	0000	0052	32540	2612				14483													
		STD	0010	0048	3257	2615		0018773	0019	14483													
		OBS	0010	0048	32570	2615				14483													
		STD	0020	-0028	3278	2635		0016821	0037	14453													
		OBS	0020	-0028	32780	2635				14453													
		STD	0030	-0049	3316	2667		0013827	0052	14450													
		OBS	0030	-0049	33160	2667				14450													
		STD	0050	-0049	3344	2689		0011678	0078	14457													
		OBS	0050	-0049	33440	2689				14457													
		STD	0075	-0021	3356	2698		0010874	0106	14476													
		OBS	0075	-0021	33560	2698				14476													
		STD	0100	-0060	3367	2708		0009858	0132	14463													
		OBS	0100	-0060	33670	2708				14463													
		STD	0125	-0014	3375	2713		0009445	0156	14490													
		OBS	0125	-0014	33750	2713				14490													
		STD	0150	0022	3385	2719		0008864	0179	14512													
		OBS	0150	0022	33850	2719				14512													
		STD	0200	0107	3405	2730		0007860	0220	14561													
		OBS	0200	0107	34050	2730				14561													
		STD	0250	0153	3422	2740		0006909	0257	14592													
		OBS	0250	0153	34220	2740				14592													
		STD	0300	0179	3433	2747		0006294	0290	14614													
		OBS	0300	0179	34330	2747				14614													
		STD	0400	0180	3445	2757		0005436	0349	14632													
		OBS	0400	0180	34450	2757				14632													
		STD	0500	0150	3447	2761		0005076	0402	14636													
		OBS	0500	0150	34470	2761				14636													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INCHES	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				CLOUD CODES	NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			SEA					
																DIR.	HGT	PER	SEA		
318160	WE		75495N	066452W		259	56	09	23 055	1969	WE2	024	0190						00	0	0024
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB												
		DT	S	09	S01	984		-019	-031	09											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C
	055	STD	0000	-0035	3020	2427		0036576		0000		14410									
		OBS	0000	-0035	30200	2427						14410									
		STD	0010	-0015	3100	2491		0030502		0034		14432									
		OBS	0010	-0015	31000	2491						14432									
		STD	0020	0057	3202	2570		0023012		0060		14481									
		OBS	0020	0057	32020	2570						14481									
		STD	0030	0050	3247	2606		0019541		0082		14486									
		OBS	0030	0050	32470	2606						14486									
		STD	0050	-0055	3311	2663		0014178		0115		14450									
		OBS	0050	-0055	33110	2663						14450									
		STD	0075	-0059	3331	2679		0012622		0149		14455									
		OBS	0075	-0059	33310	2679						14455									
		STD	0100	-0046	3347	2691		0011443		0179		14467									
		OBS	0100	-0046	33470	2691						14467									
		STD	0125	-0027	3357	2699		0010756		0207		14481									
		OBS	0125	-0027	33570	2699						14481									
		STD	0150	-0010	3366	2705		0010145		0233		14495									
		OBS	0150	-0010	33660	2705						14495									

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	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		NOGC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		75484N	067240W	259	57	09	23	098	1969	WE2	025	0060						02	00		0025	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	04	S03	990	-039		05										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	S CODE					
098		STD	0000	-0020	3000	2411	0038160		0000	14414													
		OBS	0000	-0020	30000	2411				14414													
		STD	0010	0010	3075	2470	0032513		0035	14440													
		OBS	0010	0010	30750	2470				14440													
		STD	0020	0057	3195	2564	0023546		0063	14480													
		OBS	0020	0057	31950	2564				14480													
		STD	0030	0000	3257	2617	0018541		0084	14464													
		OBS	0030	0000	32570	2617				14464													
		STD	0050	-0055	3290	2646	0015784		0119	14447													
	OBS	0050	-0055	32900	2646				14447														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	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		NOGC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		75453N	067440W	259	57	09	23	105	1969	WE2	026	0210						02	00		0026	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	04	S03	996	000	-011	10										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	S CODE					
105		STD	0000	0030	3165	2542	0025717		0000	14460													
		OBS	0000	0030	31650	2542				14460													
		STD	0010	0046	3220	2585	0021587		0024	14477													
		OBS	0010	0046	32200	2585				14477													
		STD	0020	0046	3255	2613	0018913		0044	14483													
		OBS	0020	0046	32550	2613				14483													
		STD	0030	0015	3283	2637	0016624		0062	14475													
		OBS	0030	0015	32830	2637				14475													
		STD	0050	-0037	3324	2673	0013256		0092	14460													
		OBS	0050	-0037	33240	2673				14460													
		STD	0075	-0040	3345	2690	0011630		0123	14465													
		OBS	0075	-0040	33450	2690				14465													
		STD	0100	-0010	3366	2705	0010156		0150	14486													
		OBS	0100	-0010	33660	2705				14486													
		STD	0125	0027	3377	2712	0009502		0174	14509													
		OBS	0125	0027	33770	2712				14509													
		STD	0150	0049	3386	2718	0008938		0198	14524													
		OBS	0150	0049	33860	2718				14524													
		STD	0200	0068	3392	2722	0008595		0241	14542													
		OBS	0200	0068	33920	2722				14542													

TABLE III.—Continued

REFERENCE		SHIP		LATITUDE		LONGITUDE		DUFF BUOY	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	
CDTY CODE	IO. NO.	SHIP CODE		D°	'	D°	'		10"	1"	MO	DAY	NRL/10		YEAR	CRUISE NO.	STATION NUMBER					DIR.	HGT	PER	SEA			TYPE	AMT			
318160	WE	75270N	068120W	259	58	09	23	135	1969	WE2	028			0310											02	2	7			0028		
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIE. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																
				COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)		DRY BULB		WET BULB																				
				DT	S	00	S00	995	-003	-019	12																					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTN (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH												
135		STD	0000	0000	3268	2626		0017712		0000		14461																				
		OBS	0000	0000	32680	2626						14461																				
		STD	0010	0010	3275	2631		0017218		0017		14468																				
		OBS	0010	0010	32750	2631						14468																				
		STD	0020	-0056	3318	2668		0013652		0033		14445																				
		OBS	0020	-0056	33180	2668						14445																				
		STD	0030	-0090	3336	2684		0012146		0046		14433																				
		OBS	0030	-0090	33360	2684						14433																				
		STD	0050	-0090	3353	2698		0010835		0069		14439																				
		OBS	0050	-0090	33530	2698						14439																				
		STD	0075	-0037	3366	2706		0010040		0095		14470																				
		OBS	0075	-0037	33660	2706						14470																				
		STD	0100	0025	3373	2709		0009799		0120		14503																				
		OBS	0100	0025	33730	2709						14503																				
		STD	0125	0063	3393	2723		0008488		0143		14527																				
		OBS	0125	0063	33930	2723						14527																				
		STD	0150	0088	3400	2727		0008110		0163		14544																				
		OBS	0150	0088	34000	2727						14544																				
		STD	0200	0132	3414	2735		0007349		0202		14574																				
		OBS	0200	0132	34140	2735						14574																				
		STD	0250	0164	3427	2744		0006614		0237		14598																				
		OBS	0250	0164	34270	2744						14598																				
		STD	0300	0184	3436	2749		0006108		0269		14616																				
		OBS	0300	0184	34360	2749						14616																				

TABLE III.—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	TYPE	AMT									
318160	WE		75170N	068240W	259	58	09	23 152	1969	WE2	029	0440					02	2 7		0029												
		MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C													
		WATER	WIND	BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS												SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																									
		DT	S	09	S02	994	-003	-039	13																							
		152		STD	0000	-0028	3270	2629	0017442	0000	14448																					
				OBS	0000	-0028	32700	2629			14448																					
				STD	0010	-0035	3274	2632	0017104	0017	14447																					
				OBS	0010	-0035	32740	2632			14447																					
				STD	0020	-0090	3320	2671	0013377	0033	14430																					
				OBS	0020	-0090	33200	2671			14430																					
				STD	0030	-0109	3336	2685	0012084	0045	14425																					
				OBS	0030	-0109	33360	2685			14425																					
				STD	0050	-0118	3344	2692	0011432	0069	14425																					
				OBS	0050	-0118	33440	2692			14425																					
				STD	0075	-0130	3355	2701	0010537	0096	14425																					
				OBS	0075	-0130	33550	2701			14425																					
				STD	0100	-0091	3366	2709	0009813	0122	14449																					
				OBS	0100	-0091	33660	2709			14449																					
				STD	0125	-0026	3378	2716	0009160	0145	14485																					
				OBS	0125	-0026	33780	2716			14485																					
				STD	0150	0022	3391	2724	0008408	0167	14513																					
				OBS	0150	0022	33910	2724			14513																					
				STD	0200	0088	3413	2738	0007129	0206	14554																					
				OBS	0200	0088	34130	2738			14554																					
				STD	0250	0140	3421	2741	0006889	0241	14587																					
				OBS	0250	0140	34210	2741			14587																					
				STD	0300	0187	3437	2750	0006056	0274	14618																					
				OBS	0300	0187	34370	2750			14618																					
				STD	0400	0192	3445	2756	0005535	0332	14638																					
				OBS	0400	0192	34450	2756			14638																					

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	TYPE	AMT									
318160	WE		75070N	068350W	259	58	09	23 169	1969	WE2	030	0620					02	3 1		0030												
		MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C													
		WATER	WIND	BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS												SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																									
		DT	S	17	S03	994	-019	-039	7	15																						
		169		STD	0000	-0030	3254	2616	0018658	0000	14445																					
				OBS	0000	-0030	32540	2616			14445																					
				STD	0010	-0035	3254	2616	0018634	0019	14444																					
				OBS	0010	-0035	32540	2616			14444																					
				STD	0020	-0085	3305	2659	0014543	0035	14430																					
				OBS	0020	-0085	33050	2659			14430																					
				STD	0030	-0119	3335	2684	0012130	0049	14420																					
				OBS	0030	-0119	33350	2684			14420																					
				STD	0050	-0119	3344	2692	0011429	0072	14424																					
				OBS	0050	-0119	33440	2692			14424																					
				STD	0075	-0123	3350	2697	0010942	0100	14427																					
				OBS	0075	-0123	33500	2697			14427																					
				STD	0100	-0148	3366	2710	0009626	0126	14422																					
				OBS	0100	-0148	33660	2710			14422																					
				STD	0125	0006	3375	2712	0009544	0150	14499																					
				OBS	0125	0006	33750	2712			14499																					
				STD	0150	0027	3380	2715	0009271	0173	14513																					
				OBS	0150	0027	33800	2715			14513																					
				STD	0200	0108	3410	2734	0007488	0215	14562																					
				OBS	0200	0108	34100	2734			14562																					
				STD	0250	0180	3431	2746	0006434	0250	14606																					
				OBS	0250	0180	34310	2746			14606																					
				STD	0300	0204	3440	2751	0005968	0281	14626																					
				OBS	0300	0204	34400	2751			14626																					
				STD	0400	0237	3452	2758	0005396	0338	14658																					
				OBS	0400	0237	34520	2758			14658																					
				STD	0500	0209	3455	2763	0004973	0390	14663																					
				OBS	0500	0209	34550	2763			14663																					
				STD	0600	0123	3454	2768	0004361	0436	14642																					
				OBS	0600	0123	34540	2768			14642																					

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARSOEH SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318160	WE		74580N	068525W		259	48	09	23	188	1969	WE2	031	0930						02	3	3	0031			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB														
						DT	S	08	S05	996	-009	-028	7	18												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH									
188		STD	0000	0002	3215	2583	0021772		0000	14454																
		OBS	0000	0002	32150	2583				14454																
		STD	0010	-0030	3268	2627	0017583		0020	14449																
		OBS	0010	-0030	32680	2627				14449																
		STD	0020	-0127	3324	2676	0012957		0035	14413																
		OBS	0020	-0127	33240	2676				14413																
		STD	0030	-0149	3344	2693	0011355		0047	14407																
		OBS	0030	-0149	33440	2693				14407																
		STD	0050	-0142	3345	2693	0011285		0070	14414																
		OBS	0050	-0142	33450	2693				14414																
		STD	0075	-0161	3355	2702	0010450		0097	14410																
		OBS	0075	-0161	33550	2702				14410																
		STD	0100	-0137	3363	2708	0009888		0122	14427																
		OBS	0100	-0137	33630	2708				14427																
		STD	0125	-0021	3377	2715	0009260		0146	14487																
		OBS	0125	-0021	33770	2715				14487																
		STD	0150	-0018	3381	2718	0008963		0169	14493																
		OBS	0150	-0018	33810	2718				14493																
		STD	0200	0027	3398	2729	0007898		0211	14524																
		OBS	0200	0027	33980	2729				14524																
	STD	0250	0072	3414	2739	0006955		0248	14555																	
	OBS	0250	0072	34140	2739				14555																	
	STD	0300	0100	3423	2745	0006465		0282	14577																	
	OBS	0300	0100	34230	2745				14577																	
	STD	0400	0219	3448	2756	0005539		0342	14650																	
	OBS	0400	0219	34480	2756				14650																	
	STD	0500	0226	3452	2759	0005349		0396	14670																	
	OBS	0500	0226	34520	2759				14670																	
	STD	0600	0207	3452	2760	0005226		0449	14679																	
	OBS	0600	0207	34520	2760				14679																	
	STD	0700	0170	3451	2762	0005011		0500	14679																	
	OBS	0700	0170	34510	2762				14679																	
	STD	0800	0132	3451	2765	0004711		0549	14679																	
	OBS	0800	0132	34510	2765				14679																	
	STD	0900	0100	3451	2767	0004460		0595	14681																	
	OBS	0900	0100	34510	2767				14681																	

TABLE III.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTN	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
							10°	1°	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
318160		WE	74480N	069060W		259	49	09	23	203	1969	WE2	032	1020					03	3	4	0032
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		IMBS	DRY BULB	WET BULB									
						DT	S	00	S00	007	-009	-028	7	19								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC				
203		STD	0000	0023	3217	2584	0021711		0000	14464												
		OBS	0000	0023	32170	2584				14464												
		STD	0010	0023	3270	2626	0017660		0020	14473												
		OBS	0010	0023	32700	2626				14473												
		STD	0020	-0085	3318	2670	0013547		0035	14432												
		OBS	0020	-0085	33180	2670				14432												
		STD	0030	-0127	3334	2684	0012183		0048	14416												
		OBS	0030	-0127	33340	2684				14416												
		STD	0050	-0155	3346	2694	0011173		0072	14408												
		OBS	0050	-0155	33460	2694				14408												
		STD	0075	-0142	3360	2705	0010119		0098	14420												
		OBS	0075	-0142	33600	2705				14420												
		STD	0100	-0128	3364	2708	0009840		0123	14431												
		OBS	0100	-0128	33640	2708				14431												
		STD	0125	-0126	3378	2719	0008761		0146	14438												
		OBS	0125	-0126	33780	2719				14438												
		STD	0150	0038	3391	2723	0008496		0168	14520												
		OBS	0150	0038	33910	2723				14520												
		STD	0200	0050	3405	2733	0007500		0208	14536												
		OBS	0200	0050	34050	2733				14536												
		STD	0250	0082	3425	2748	0006186		0242	14561												
		OBS	0250	0082	34250	2748				14561												
		STD	0300	0150	3440	2755	0005542		0271	14602												
		OBS	0300	0150	34400	2755				14602												
		STD	0400	0224	3454	2761	0005131		0325	14653												
		OBS	0400	0224	34540	2761				14653												
		STD	0500	0239	3455	2760	0005242		0377	14676												
		OBS	0500	0239	34550	2760				14676												
	STD	0600	0182	3455	2765	0004780		0427	14668													
	OBS	0600	0182	34550	2765				14668													
	STD	0700	0143	3452	2765	0004703		0474	14667													
	OBS	0700	0143	34520	2765				14667													
	STD	0800	0111	3450	2766	0004608		0521	14669													
	OBS	0800	0111	3455P	2770P																	
	STD	0900	0088	3449	2766	0004509		0566	14676													
	OBS	0900	0088	34490	2766				14676													
	STD	1000	0070	3449	2768	0004371		0611	14684													
	OBS	1000	0070	34490	2768				14684													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBT INDCTR	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	74590N	070425W		260	40	09	24	002	1969	WE2	033		0820						70	6	8	0033
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	27	512	004	-006	-006	7	17										
MESSAGE TIME HR 1/10	CAST ND.	CARD TYPE	DEPTN (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P μg - σ _t /l	TOTAL-P μg - σ _t /l	NO ₃ -N μg - σ _t /l	ND ₃ -N μg - σ _t /l	SiO ₄ -Si μg - σ _t /l	pH	S C C							
002		STO	0000	-0008	3250	2612	0019054	0000	14455															
		OBS	0000	-0008	32500	2612			14455															
		STO	0010	-0090	3300	2655	0014915	0017	14425															
		OBS	0010	-0090	33000	2655			14425															
		STO	0020	-0143	3337	2687	0011915	0030	14407															
		OBS	0020	-0143	33370	2687			14407															
		STO	0030	-0152	3348	2696	0011041	0042	14406															
		OBS	0030	-0152	33480	2696			14406															
		STO	0050	-0153	3360	2706	0010104	0063	14411															
		OBS	0050	-0153	33600	2706			14411															
		STO	0075	-0140	3366	2710	0009665	0088	14422															
		OBS	0075	-0140	33660	2710			14422															
		STO	0100	-0110	3376	2717	0008981	0111	14441															
		OBS	0100	-0110	33760	2717			14441															
		STO	0125	-0038	3387	2723	0008419	0133	14480															
		OBS	0125	-0038	33870	2723			14480															
		STO	0150	0027	3393	2725	0008283	0154	14515															
		OBS	0150	0027	33930	2725			14515															
		STO	0200	0075	3414	2739	0006970	0192	14548															
		OBS	0200	0075	34140	2739			14548															
	STO	0250	0115	3428	2748	0006182	0225	14576																
	OBS	0250	0115	34280	2748			14576																
	STO	0300	0149	3437	2753	0005761	0255	14601																
	OBS	0300	0149	34370	2753			14601																
	STO	0400	0168	3447	2759	0005188	0309	14627																
	OBS	0400	0168	34470	2759			14627																
	STO	0500	0156	3449	2762	0004974	0360	14639																
	OBS	0500	0156	34490	2762			14639																
	STO	0600	0133	3451	2765	0004667	0408	14646																
	OBS	0600	0133	34510	2765			14646																
	STO	0700	0090	3451	2768	0004344	0453	14643																
	OBS	0700	0090	34510	2768			14643																
	STO	0800	0034	3450	2771	0004000	0495	14635																
	OBS	0800	0034	34500	2771			14635																

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER	
CTRY CODE	IO. NO.	CODE	1/10	1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318160	WE	75070N	070280W	260	50	09	24	017	1969	WE2	034	0620						70	X	9	0034	
						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										
						DT	S	00	S00	014	-006	-006	7	15								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ OYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₃ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH				
	017	STD	0000	-0010	3255	2616	0018663		0000		14454											
		OBS	0000	-0010	32550	2616					14454											
		STD	0010	-0016	3264	2623	0017946		0018		14454											
		OBS	0010	-0016	32640	2623					14454											
		STD	0020	-0122	3323	2675	0013048		0034		14415											
		OBS	0020	-0122	33230	2675					14415											
		STD	0030	-0150	3349	2697	0010969		0046		14407											
		OBS	0030	-0150	33490	2697					14407											
		STD	0050	-0159	3357	2703	0010318		0067		14407											
		OBS	0050	-0159	33570	2703					14407											
		STD	0075	-0162	3366	2711	0009604		0092		14411											
		OBS	0075	-0162	33660	2711					14411											
		STD	0100	-0152	3372	2715	0009155		0115		14421											
		OBS	0100	-0152	33720	2715					14421											
		STD	0125	-0048	3386	2723	0008450		0137		14476											
		OBS	0125	-0048	33860	2723					14476											
		STD	0150	0007	3396	2728	0007947		0158		14507											
		OBS	0150	0007	33960	2728					14507											
		STD	0200	0083	3417	2741	0006794		0195		14552											
		OBS	0200	0083	34170	2741					14552											
		STD	0250	0128	3432	2750	0005971		0227		14583											
		OBS	0250	0128	34320	2750					14583											
		STD	0300	0155	3442	2756	0005429		0255		14604											
		OBS	0300	0155	34420	2756					14604											
		STD	0400	0206	3450	2759	0005277		0309		14645											
		OBS	0400	0206	34500	2759					14645											
		STD	0500	0193	3452	2761	0005059		0360		14656											
		OBS	0500	0193	34520	2761					14656											
		STD	0600	0128	3452	2766	0004551		0408		14644											
		OBS	0600	0128	34520	2766					14644											

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
CTRY CODE	IO. NO.	CODE	1/10	1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318160	WE	75160N	070070W	260	50	09	24	033	1969	WE2	035	0570						71	X	9	0035
						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									
						DT	S	34	S10	005	-006	-006	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ OYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₃ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH			
	033	STD	0000	-0010	3245	2608	0019428		0000		14453										
		OBS	0000	-0010	32450	2608					14453										
		STD	0010	-0013	3253	2614	0018799		0019		14454										
		OBS	0010	-0013	32530	2614					14454										
		STD	0020	-0024	3280	2636	0016685		0037		14455										
		OBS	0020	-0024	32800	2636					14455										
		STD	0030	-0147	3338	2688	0011821		0051		14407										
		OBS	0030	-0147	33380	2688					14407										
		STD	0050	-0158	3355	2702	0010475		0073		14407										
		OBS	0050	-0158	33550	2702					14407										
		STD	0075	-0129	3364	2708	0009851		0099		14427										
		OBS	0075	-0129	33640	2708					14427										
		STD	0100	-0095	3373	2714	0009264		0123		14448										
		OBS	0100	-0095	33730	2714					14448										
		STD	0125	-0023	3386	2722	0008564		0145		14487										
		OBS	0125	-0023	33860	2722					14487										
		STD	0150	0039	3398	2728	0007969		0166		14521										
		OBS	0150	0039	33980	2728					14521										
		STD	0200	0109	3417	2739	0006964		0203		14564										
		OBS	0200	0109	34170	2739					14564										
		STD	0250	0154	3431	2748	0006236		0236		14594										
		OBS	0250	0154	34310	2748					14594										
		STD	0300	0169	3440	2754	0005688		0266		14610										
		OBS	0300	0169	34400	2754					14610										
		STD	0400	0228	3450	2757	0005467		0322		14654										
		OBS	0400	0228	34500	2757					14654										
		STD	0500	0172	3451	2762	0004956		0374		14646										
		OBS	0500	0172	34510	2762					14646										

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METERS	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. MO.					10"	1"	MO	DAY	HR		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75250N	069480W		259	59	09	24	048	1969	WE2	036	0550					85	9		0036		
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	34	S10	955	-006	-006	14											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C						
048		STD	0000	-0023	3263	2623	0017998		0000	14449														
		OBS	0000	-0023	32630	2623				14449														
		STD	0010	-0024	3270	2628	0017454		0018	14452														
		OBS	0010	-0024	32700	2628				14452														
		STD	0020	-0110	3325	2676	0012930		0033	14421														
		OBS	0020	-0110	33250	2676				14421														
		STD	0030	-0145	3340	2689	0011673		0045	14408														
		OBS	0030	-0145	33400	2689				14408														
		STD	0050	-0150	3353	2700	0010649		0068	14411														
		OBS	0050	-0150	33530	2700				14411														
		STD	0075	-0155	3360	2706	0010082		0093	14414														
		OBS	0075	-0155	33600	2706				14414														
		STD	0100	-0122	3373	2715	0009170		0118	14435														
		OBS	0100	-0122	33730	2715				14435														
		STD	0125	-0064	3380	2719	0008840		0140	14467														
		OBS	0125	-0064	33800	2719				14467														
		STD	0150	-0020	3395	2729	0007887		0161	14494														
		OBS	0150	-0020	33950	2729				14494														
	STD	0200	0078	3414	2739	0006989		0198	14550															
	OBS	0200	0078	34140	2739				14550															
	STD	0250	0150	3427	2745	0006509		0232	14592															
	OBS	0250	0150	34270	2745				14592															
	STD	0300	0194	3442	2753	0005736		0262	14622															
	OBS	0300	0194	34420	2753				14622															
	STD	0400	0221	3450	2758	0005406		0318	14651															
	OBS	0400	0221	34500	2758				14651															
	STD	0500	0184	3452	2762	0004982		0370	14652															
	OBS	0500	0184	34520	2762				14652															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METERS	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. MO.					10"	1"	MO	DAY	HR		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75355N	069280W		259	59	09	24	063	1969	WE2	037	0490					85	9		0037		
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	34	S08	955	-006	-022	13											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C						
063		STD	0000	0000	3262	2621	0018170		0000	14460														
		OBS	0000	0000	32620	2621				14460														
		STD	0010	-0008	3275	2632	0017138		0018	14460														
		OBS	0010	-0008	32750	2632				14460														
		STD	0020	-0078	3326	2676	0012959		0033	14436														
		OBS	0020	-0078	33260	2676				14436														
		STD	0030	-0092	3335	2684	0012216		0045	14432														
		OBS	0030	-0092	33350	2684				14432														
		STD	0050	-0119	3350	2697	0010969		0068	14425														
		OBS	0050	-0119	33500	2697				14425														
		STD	0075	-0112	3363	2707	0009982		0095	14434														
		OBS	0075	-0112	33630	2707				14434														
		STD	0100	-0022	3379	2716	0009108		0119	14483														
		OBS	0100	-0022	33790	2716				14483														
		STD	0125	0013	3388	2722	0008591		0141	14504														
		OBS	0125	0013	33880	2722				14504														
		STD	0150	0054	3396	2726	0008207		0162	14528														
		OBS	0150	0054	33960	2726				14528														
	STD	0200	0100	3412	2736	0007283		0200	14559															
	OBS	0200	0100	34120	2736				14559															
	STD	0250	0145	3428	2746	0006397		0235	14590															
	OBS	0250	0145	34280	2746				14590															
	STD	0300	0183	3440	2753	0005798		0265	14617															
	OBS	0300	0183	34400	2753				14617															
	STD	0400	0196	3450	2760	0005192		0320	14640															
	OBS	0400	0196	34500	2760				14640															

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
318160	WE	75355N	069280W		259	59	09	24	063	1969	WE2	037	0490					85	9		0037
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE			DRY RULE	WET RULE									
					DT	S	34	S08	955	-006	-022	13									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C		
		STD	0000	0000	3262	2621		0018170		0000	14460										
063		OBS	0000	0000	32620	2621					14460										
		STD	0010	-0008	3275	2632		0017138		0018	14460										
		OBS	0010	-0008	32750	2632					14460										
		STD	0020	-0078	3326	2676		0012959		0033	14436										
		OBS	0020	-0078	33260	2676					14436										
		STD	0030	-0092	3335	2684		0012216		0045	14432										
		OBS	0030	-0092	33350	2684					14432										
		STD	0050	-0119	3350	2697		0010969		0068	14425										
		OBS	0050	-0119	33500	2697					14425										
		STD	0075	-0112	3363	2707		0009982		0095	14434										
		OBS	0075	-0112	33630	2707					14434										
		STD	0100	-0022	3379	2716		0009108		0119	14483										
		OBS	0100	-0022	33790	2716					14483										
		STD	0125	0013	3388	2722		0008591		0141	14504										
		OBS	0125	0013	33880	2722					14504										
		STD	0150	0054	3396	2726		0008207		0162	14528										
		OBS	0150	0054	33960	2726					14528										
		STD	0200	0100	3412	2736		0007283		0200	14559										
		OBS	0200	0100	34120	2736					14559										
		STD	0250	0145	3428	2746		0006397		0235	14590										
		OBS	0250	0145	34280	2746					14590										
		STD	0300	0183	3440	2753		0005798		0265	14617										
		OBS	0300	0183	34400	2753					14617										
		STD	0400	0196	3450	2760		0005192		0320	14640										
		OBS	0400	0196	34500	2760					14640										

TABLE III.—Continued

REFERENCE	SHIP	LATITUDE	LONGITUDE	DOFT	MARS DEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD		NOOC	
CTRY	HO.	CODE	* 1/10	INCH	SQUARE	IGMT	MD	DAY		CRUISE	STATION			TO	DEPTH	OBS.	DIR		HGT	PER		SEA
					10"	1"		HR.		NO.	NUMBER	BOTTOM	OF								NUMBER	
318160	WE	75428N	069120W		259	59	09	24	095	1969	WF2 038	0360							85	7	8	0038
					WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL							
					COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	CODE					OBS.					
					CODE	IMI		OR	(mba)	BULB	BULB		DEPTH				OBSERVATIONS					
					DT	S	34	508	002	-019	-025	12										
MESSAGE	TIME	CAST	CARD	DEPTH	T	S	SIGMA	SPECIFIC	Δ σ	SOUND	O ₂	PO ₄	TOTAL	NO ₂	NO ₃	SiO ₄	pH					
HR	1/10	NO.	TYPE	(m)	°C	%	-T	VOLUME	DYN. M.	VELOCITY	ml/l	-P	-P	-N	-N	-Si						
								ANOMALY- σ_{θ}	$\times 10^3$			$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$						
			STD	0000	-0024	3265	2624															
		095	OBS	0000	-0024	32650	2624	0017841	0000	14449												
			STD	0010	-0030	3304	2656	0014829	0016	14454												
			OBS	0010	-0030	33040	2656			14454												
			STD	0020	-0102	3333	2682	0012342	0030	14426												
			OBS	0020	-0102	33330	2682			14426												
			STD	0030	-0114	3344	2692	0011455	0042	14423												
			OBS	0030	-0114	33440	2692			14423												
			STD	0050	-0121	3356	2701	0010503	0064	14425												
			OBS	0050	-0121	33560	2701			14425												
			STD	0075	-0112	3363	2707	0009982	0089	14434												
			OBS	0075	-0112	33630	2707			14434												
			STD	0100	-0085	3374	2715	0009224	0113	14453												
			OBS	0100	-0085	33740	2715			14453												
			STD	0125	-0048	3382	2720	0008755	0136	14475												
			OBS	0125	-0048	33820	2720			14475												
			STD	0150	0040	3398	2728	0007975	0157	14522												
			OBS	0150	0040	33980	2728			14522												
			STD	0200	0115	3415	2737	0007156	0195	14566												
			OBS	0200	0115	34150	2737			14566												
			STD	0250	0171	3427	2743	0006667	0229	14601												
			OBS	0250	0171	34270	2743			14601												
			STD	0300	0186	3437	2750	0006048	0261	14617												
			OBS	0300	0186	34370	2750			14617												

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	HAUT MONT	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				
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
318160	WE	75510N	068500W		259	58	09	24	108	1969	WF2 039		0320						71	7	8		0039			
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS												
					COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
					DT	S	00	500	016	-019	-028		12													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C									
108		STD	0000	0047	3220	2585	0021595	0000	14476																	
		OBS	0000	0047	32200	2585			14476																	
		STD	0010	0045	3250	2609	0019292	0020	14480																	
		OBS	0010	0045	32500	2609			14480																	
		STD	0020	0015	3286	2640	0016398	0038	14473																	
		OBS	0020	0015	32860	2640			14473																	
		STD	0030	-0024	3306	2657	0014694	0054	14460																	
		OBS	0030	-0024	33060	2657			14460																	
		STD	0050	-0046	3332	2679	0012608	0081	14457																	
		OBS	0050	-0046	33320	2679			14457																	
		STD	0075	-0038	3351	2694	0011181	0111	14467																	
		OBS	0075	-0038	33510	2694			14467																	
		STD	0100	-0023	3362	2703	0010400	0138	14480																	
		OBS	0100	-0023	33620	2703			14480																	
		STD	0125	0010	3373	2710	0009717	0163	14501																	
		OBS	0125	0010	33730	2710			14501																	
		STD	0150	0028	3384	2718	0008972	0186	14514																	
		OBS	0150	0028	33840	2718			14514																	
	STD	0200	0097	3405	2731	0007794	0228	14557																		
	OBS	0200	0097	34050	2731			14557																		
	STD	0250	0149	3422	2741	0006879	0265	14591																		
	OBS	0250	0149	34220	2741			14591																		
	STD	0300	0173	3433	2748	0006247	0298	14611																		
	OBS	0300	0173	34330	2748			14611																		

TABLE III.—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 S'PL'S	WAVE OBSERVATIONS			WEA- TNER 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
318160		WE	76003N	068300W		259	68	09	24	122	1969	WE2	040		0100				71	7	8	0040	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	06	S16	022	-017	-028	06										
MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ CYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
	122	STD	0000	-0020	3050	2451	0034324		0000	14421													
		OBS	0000	-0020	30500	2451				14421													
		STD	0010	-0030	3050	2451	0034282		0034	14418													
		OBS	0010	-0030	30500	2451				14418													
		STD	0020	0010	3180	2555	0024474		0064	14456													
		OBS	0020	0010	31800	2555				14456													
		STD	0030	0022	3235	2598	0020321		0086	14471													
		OBS	0030	0022	32350	2598				14471													
		STD	0050	-0023	3286	2641	0016219		0123	14461													
		OBS	0050	-0023	32860	2641				14461													
		STD	0075	-0048	3317	2667	0013736		0160	14458													
		OBS	0075	-0048	33170	2667				14458													

REFERENCE	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- TNER 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						
318160		WE	76082N	069200W		259	69	09	24	138	1969	WE2	041		0170				01	7	7	0041	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	06	S16	022	-017	-028	09										
MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ CYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
	138	STD	0000	0020	3152	2532	0026667		0000	14454													
		OBS	0000	0020	31520	2532				14454													
		STD	0010	0015	3158	2537	0026182		0026	14454													
		OBS	0010	0015	31580	2537				14454													
		STD	0020	0015	3181	2555	0024419		0052	14459													
		OBS	0020	0015	31810	2555				14459													
		STD	0030	0032	3260	2618	0018460		0073	14479													
		OBS	0030	0032	32600	2618				14479													
		STD	0050	-0048	3319	2669	0013594		0105	14454													
		OBS	0050	-0048	33190	2669				14454													
		STD	0075	-0043	3350	2694	0011236		0136	14465													
		OBS	0075	-0043	33500	2694				14465													
		STD	0100	-0014	3364	2704	0010290		0163	14484													
		OBS	0100	-0014	33640	2704				14484													
		STD	0125	-0001	3369	2707	0009966		0188	14495													
		OBS	0125	-0001	33690	2707				14495													
		STD	0150	0010	3375	2711	0009561		0213	14505													
		OBS	0150	0010	33750	2711				14505													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER SEA		TYPE	AMT	
318160	WE		76000N	069470W	259	69	09	24	149	1969	WE2	042	0420					72	7	8	0042
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
DT	S	10	S16	024	-025	-031				13											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
149		STD	0000	0003	3254	2614	0018795	0000	14460												
		OBS	0000	0003	32540	2614			14460												
		STD	0010	0002	3258	2618	0018481	0019	14462												
		OBS	0010	0002	32580	2618			14462												
		STD	0020	-0090	3325	2675	0012994	0034	14430												
		OBS	0020	-0090	33250	2675			14430												
		STD	0030	-0114	3336	2685	0012069	0047	14422												
		OBS	0030	-0114	33360	2685			14422												
		STD	0050	-0124	3350	2697	0010953	0070	14423												
		OBS	0050	-0124	33500	2697			14423												
		STD	0075	-0142	3354	2700	0010579	0097	14419												
		OBS	0075	-0142	33540	2700			14419												
		STD	0100	-0086	3368	2710	0009679	0122	14451												
		OBS	0100	-0086	33680	2710			14451												
		STD	0125	-0042	3385	2722	0008553	0145	14478												
		OBS	0125	-0042	33850	2722			14478												
		STD	0150	0050	3396	2726	0008184	0166	14526												
	OBS	0150	0050	33960	2726			14526													
	STD	0200	0114	3412	2735	0007377	0205	14565													
	OBS	0200	0114	34120	2735			14565													
	STD	0250	0164	3426	2743	0006689	0240	14598													
	OBS	0250	0164	34260	2743			14598													
	STD	0300	0182	3437	2750	0006016	0272	14616													
	OBS	0300	0182	34370	2750			14616													
	STD	0400	0187	3445	2756	0005493	0329	14636													
	OBS	0400	0187	34450	2756			14636													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER SEA		TYPE	AMT	
318160	WE		75540N	070150W	260	50	09	24	173	1969	WE2	043	0500					70	3	6	0043
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
DT	S	00	S00	032	-025	-031			7	14											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
173		STD	0000	-0007	3252	2613	0018905	0000	14455												
		OBS	0000	-0007	32520	2613			14455												
		STD	0010	-0014	3256	2617	0018566	0019	14454												
		OBS	0010	-0014	32560	2617			14454												
		STD	0020	-0065	3306	2659	0014537	0035	14439												
		OBS	0020	-0065	33060	2659			14439												
		STD	0030	-0138	3340	2689	0011692	0048	14412												
		OBS	0030	-0138	33400	2689			14412												
		STD	0050	-0126	3350	2697	0010947	0071	14422												
		OBS	0050	-0126	33500	2697			14422												
		STD	0075	-0133	3360	2705	0010145	0097	14424												
		OBS	0075	-0133	33600	2705			14424												
		STD	0100	-0072	3374	2714	0009275	0122	14459												
		OBS	0100	-0072	33740	2714			14459												
		STD	0125	0035	3388	2721	0008709	0144	14514												
		OBS	0125	0035	33880	2721			14514												
		STD	0150	0080	3395	2724	0008439	0166	14540												
	OBS	0150	0080	33950	2724			14540													
	STD	0200	0137	3414	2735	0007385	0205	14576													
	OBS	0200	0137	34140	2735			14576													
	STD	0250	0130	3425	2744	0006515	0240	14583													
	OBS	0250	0130	34250	2744			14583													
	STD	0300	0054	3425	2749	0006010	0271	14557													
	OBS	0300	0054	34250	2749			14557													
	STD	0400	-0029	3430	2758	0005132	0327	14536													
	OBS	0400	-0029	34300	2758			14536													
	STD	0500	-0028	3432	2759	0004969	0377	14554													
	OBS	0500	-0028	34320	2759			14554													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR,1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
318160	WE		75540N	070150W	260	50	09	24	173	1969	WE2	043	0500						70	3	6	0043	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE		DRY BULB		WET BULB														
DT		S		00		S00		032		-025		-031		7		14							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C		
		STD	0000	-0007	3252	2613		0018905		0000		14455											
173		OBS	0000	-0007	32520	2613						14455											
		STD	0010	-0014	3256	2617		0018566		0019		14454											
		OBS	0010	-0014	32560	2617						14454											
		STD	0020	-0065	3306	2659		0014537		0035		14439											
		OBS	0020	-0065	33060	2659						14439											
		STD	0030	-0138	3340	2689		0011692		0048		14412											
		OBS	0030	-0138	33400	2689						14412											
		STD	0050	-0126	3350	2697		0010947		0071		14422											
		OBS	0050	-0126	33500	2697						14422											
		STD	0075	-0133	3360	2705		0010145		0097		14424											
		OBS	0075	-0133	33600	2705						14424											
		STD	0100	-0072	3374	2714		0009275		0122		14459											
		OBS	0100	-0072	33740	2714						14459											
		STD	0125	0035	3388	2721		0008709		0144		14514											
		OBS	0125	0035	33880	2721						14514											
		STD	0150	0080	3395	2724		0008439		0166		14540											
		OBS	0150	0080	33950	2724						14540											
		STD	0200	0137	3414	2735		0007385		0205		14576											
		OBS	0200	0137	34140	2735						14576											
		STD	0250	0130	3425	2744		0006515		0240		14583											
		OBS	0250	0130	34250	2744						14583											
		STD	0300	0054	3425	2749		0006010		0271		14557											
		OBS	0300	0054	34250	2749						14557											
		STD	0400	-0029	3430	2758		0005132		0327		14536											
		OBS	0400	-0029	34300	2758						14536											
		STD	0500	-0028	3432	2759		0004969		0377		14554											
		OBS	0500	-0028	34320	2759						14554											

TABLE III.—Continued

REFERENCE CST CODE	SHIP ID. NO.	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSE INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TPPL	AMT		
318160		WE	75465N	070420W	260	50	09	24	194	1969	WE2	044		0440						03	6	7		0044
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB							
						DT	S	16	S08	044	-012	-023	7	13										

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S
194	STD	0000	-0030	3262	2622	0018046	0000	14446									
	OBS	0000	-0030	32620	2622			14446									
	STD	0010	-0030	3290	2645	0015900	0017	14452									
	OBS	0010	-0030	32900	2645			14452									
	STD	0020	-0115	3345	2692	0011381	0031	14421									
	OBS	0020	-0115	33450	2692			14421									
	STD	0030	-0127	3353	2699	0010726	0042	14419									
	OBS	0030	-0127	33530	2699			14419									
	STD	0050	-0125	3362	2706	0010031	0062	14424									
	OBS	0050	-0125	33620	2706			14424									
	STD	0075	-0095	3373	2714	0009275	0087	14444									
	OBS	0075	-0095	33730	2714			14444									
	STD	0100	-0064	3382	2720	0008696	0109	14464									
	OBS	0100	-0064	33820	2720			14464									
	STD	0125	0048	3395	2725	0008249	0130	14521									
	OBS	0125	0048	33950	2725			14521									
	STD	0150	0070	3403	2731	0007771	0150	14536									
	OBS	0150	0070	34030	2731			14536									
	STD	0200	0032	3413	2741	0006788	0187	14529									
	OBS	0200	0032	34130	2741			14529									
	STD	0250	0046	3424	2749	0006035	0219	14545									
	OBS	0250	0046	34240	2749			14545									
	STD	0300	0042	3428	2752	0005708	0248	14552									
	OBS	0300	0042	34280	2752			14552									
	STD	0400	-0028	3432	2759	0004986	0302	14537									
	OBS	0400	-0028	34320	2759			14537									

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSE INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318160		WE	75400N	071110W	260	51	09	24	238	1969	WE2	045		0470						70	6	8		0045
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB		DRY BULB		WET BULB								
						DT	S	14	S10	052	-017		-022		7		13							

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S
238	STD	0000	-0020	3235	2600	0020152	0000	14447									
	OBS	0000	-0020	32350	2600			14447									
	STD	0010	-0022	3255	2616	0018609	0019	14450									
	OBS	0010	-0022	32550	2616			14450									
	STD	0020	-0112	3335	2684	0012157	0035	14421									
	OBS	0020	-0112	33350	2684			14421									
	STD	0030	-0121	3343	2691	0011511	0047	14420									
	OBS	0030	-0121	33430	2691			14420									
	STD	0050	-0127	3356	2702	0010484	0069	14422									
	OBS	0050	-0127	33560	2702			14422									
	STD	0075	-0110	3375	2716	0009070	0093	14437									
	OBS	0075	-0110	33750	2716			14437									
	STD	0100	-0072	3388	2726	0008205	0115	14461									
	OBS	0100	-0072	33880	2726			14461									
	STD	0125	0028	3395	2727	0008138	0135	14512									
	OBS	0125	0028	33950	2727			14512									
	STD	0150	0074	3398	2726	0008175	0155	14537									
	OBS	0150	0074	33980	2726			14537									
	STD	0200	0131	3419	2740	0006964	0193	14574									
	OBS	0200	0131	34190	2740			14574									
	STD	0250	0072	3420	2744	0006500	0227	14556									
	OBS	0250	0072	34200	2744			14556									
	STD	0300	0015	3422	2749	0006001	0258	14539									
	OBS	0300	0015	34220	2749			14539									
	STD	0400	0017	3435	2759	0005022	0313	14558									
	OBS	0400	0017	34350	2759			14558									

TABLE III.—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 S'WPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
318160	WE	75320N	071350W		260	51	09	25	014	1969	WE2	046		0530						00	6	7	0046	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	S	14	S10	055	-017	-022	7	14										
MESSENGER TIME OF HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C			
014			STD	0000	0000	3230	2595		0020617		0000	14455												
			OBS	0000	0000	32300	2595					14455												
			STD	0010	-0014	3260	2620		0018260		0019	14455												
			OBS	0010	-0014	32600	2620					14455												
			STD	0020	-0125	3336	2685		0012042		0035	14415												
			OBS	0020	-0125	33360	2685					14415												
			STD	0030	-0140	3344	2692		0011379		0046	14411												
			OBS	0030	-0140	33440	2692					14411												
			STD	0050	-0144	3357	2703		0010359		0068	14414												
			OBS	0050	-0144	33570	2703					14414												
			STD	0075	-0118	3368	2711		0009579		0093	14432												
			OBS	0075	-0118	33680	2711					14432												
			STD	0100	-0095	3378	2718		0008881		0116	14449												
			OBS	0100	-0095	33780	2718					14449												
			STD	0125	0010	3395	2728		0008043		0137	14504												
			OBS	0125	0010	33950	2728					14504												
			STD	0150	0048	3397	2727		0008097		0157	14525												
			OBS	0150	0048	33970	2727					14525												
			STD	0200	0150	3420	2739		0007024		0195	14583												
			OBS	0200	0150	34200	2739					14583												
		STD	0250	0152	3428	2745		0006448		0229	14593													
		OBS	0250	0152	34280	2745					14593													
		STD	0300	0190	3445	2756		0005477		0259	14620													
		OBS	0300	0190	34450	2756					14620													
		STD	0400	0199	3450	2759		0005218		0312	14642													
		OBS	0400	0199	34500	2759					14642													
		STD	0500	0138	3451	2765		0004679		0362	14631													
		OBS	0500	0138	34510	2765					14631													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'WPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO, NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE		75250N	072020W		260	52 09	25 028	1969	WE2	047		0570						73	3	8		0047
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	14	S08	051	-011	-011	4	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH						
028		STD	0000	-0040	3260	2621	0018161		0000	14441													
		OBS	0000	-0040	32600	2621				14441													
		STD	0010	-0045	3260	2621	0018137		0018	14440													
		OBS	0010	-0045	32600	2621				14440													
		STD	0020	-0130	3327	2678	0012718		0034	14412													
		OBS	0020	-0130	33270	2678				14412													
		STD	0030	-0148	3347	2695	0011128		0045	14408													
		OBS	0030	-0148	33470	2695				14408													
		STD	0050	-0148	3358	2704	0010271		0067	14413													
		OBS	0050	-0148	33580	2704				14413													
		STD	0075	-0149	3362	2707	0009945		0092	14417													
		OBS	0075	-0149	33620	2707				14417													
		STD	0100	-0140	3368	2712	0009496		0116	14426													
		OBS	0100	-0140	33680	2712				14426													
		STD	0125	-0080	3384	2723	0008469		0139	14461													
		OBS	0125	-0080	33840	2723				14461													
	STD	0150	-0008	3393	2727	0008099		0160	14499														
	OBS	0150	-0008	33930	2727				14499														
	STD	0200	0090	3414	2738	0007066		0198	14555														
	OBS	0200	0090	34140	2738				14555														
	STD	0250	0130	3426	2745	0006439		0231	14583														
	OBS	0250	0130	34260	2745				14583														
	STD	0300	0160	3437	2752	0005845		0262	14606														
	OBS	0300	0160	34370	2752				14606														
	STD	0400	0227	3452	2759	0005308		0318	14654														
	OBS	0400	0227	34520	2759				14654														
	STD	0500	0168	3451	2763	0004923		0369	14645														
	OBS	0500	0168	34510	2763				14645														

TABLE III.-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'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	IO, NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
318160	WE	75180N	072300W	260	52	09 25 040	1969	WE2	048		0550							85	8	6		0048					
				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														
				DT	S	14	S08	051	-011	-011	9	14															
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH											
040	STD	0000	-0033	3255	2617	0018570	0000	14444																			
	OBS	0000	-0033	32550	2617			14444																			
	STD	0010	-0037	3264	2624	0017861	0018	14445																			
	OBS	0010	-0037	32640	2624			14445																			
	STD	0020	-0125	3332	2682	0012348	0033	14415																			
	OBS	0020	-0125	33320	2682			14415																			
	STD	0030	-0147	3344	2692	0011361	0045	14408																			
	OBS	0030	-0147	33440	2692			14408																			
	STD	0050	-0150	3355	2701	0010496	0067	14411																			
	OBS	0050	-0150	33550	2701			14411																			
	STD	0075	-0148	3365	2710	0009718	0092	14418																			
	OBS	0075	-0148	33650	2710			14418																			
	STD	0100	-0120	3370	2713	0009406	0116	14436																			
	OBS	0100	-0120	33700	2713			14436																			
	STD	0125	-0072	3383	2722	0008578	0139	14464																			
	OBS	0125	-0072	33830	2722			14464																			
	STD	0150	-0010	3393	2727	0008089	0160	14498																			
	OBS	0150	-0010	33930	2727			14498																			
	STD	0200	0067	3410	2736	0007224	0198	14544																			
	OBS	0200	0067	34100	2736			14544																			
	STD	0250	0120	3427	2747	0006293	0232	14578																			
	OBS	0250	0120	34270	2747			14578																			
	STD	0300	0153	3436	2752	0005867	0262	14603																			
	OBS	0300	0153	34360	2752			14603																			
	STD	0400	0180	3447	2758	0005285	0318	14633																			
	OBS	0400	0180	34470	2758			14633																			
	STD	0500	0180	3452	2762	0004948	0369	14650																			
	OBS	0500	0180	34520	2762			14650																			

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	IO, NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
318160	WE	76599N	071340W	260	61	09 27 239	1969	WE2	049		0720							71	X	9		0049					
				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														
				DT	S	00	S00	202	-017	-022	7	16															
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH											
239	STD	0000	-0010	3175	2551	0024784	0000	14443																			
	OBS	0000	-0010	31750	2551			14443																			
	STD	0010	-0020	3184	2559	0024050	0024	14441																			
	OBS	0010	-0020	31840	2559			14441																			
	STD	0020	-0023	3185	2560	0023957	0048	14442																			
	OBS	0020	-0023	31850	2560			14442																			
	STD	0030	-0020	3195	2568	0023198	0072	14446																			
	OBS	0030	-0020	31950	2568			14446																			
	STD	0050	-0012	3269	2627	0017565	0113	14464																			
	OBS	0050	-0012	32690	2627			14464																			
	STD	0075	-0025	3302	2654	0014979	0153	14466																			
	OBS	0075	-0025	33020	2654			14466																			
	STD	0100	-0040	3333	2680	0012538	0188	14468																			
	OBS	0100	-0040	33330	2680			14468																			
	STD	0125	-0040	3339	2685	0012071	0219	14473																			
	OBS	0125	-0040	33390	2685			14473																			
	STD	0150	-0040	3347	2691	0011452	0248	14478																			
	OBS	0150	-0040	33470	2691			14478																			
	STD	0200	-0010	3378	2715	0009220	0300	14505																			
	OBS	0200	-0010	33780	2715			14505																			
	STD	0250	0029	3390	2723	0008513	0344	14532																			
	OBS	0250	0029	33900	2723			14532																			
	STD	0300	0080	3417	2741	0006784	0382	14567																			
	OBS	0300	0080	34170	2741			14567																			
	STD	0400	0078	3431	2753	0005722	0445	14585																			
	OBS	0400	0078	34310	2753			14585																			
	STD	0500	0079	3437	2757	0005287	0500	14603																			
	OBS	0500	0079	34370	2757			14603																			
	STD	0600	0080	3439	2759	0005155	0552	14620																			
	OBS	0600	0080	34390	2759			14620																			
	STD	0700	0082	3442	2761	0004957	0603	14638																			
	OBS	0700	0082	34420	2761			14638																			

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUST INDEX	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTDTM	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	
318160	WE	76510N	071580W			260	61	09	28	015	1969	WE2	050		0810					71	X	9	0050
						WATER		WIND				AIR TEMP. °C											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						DT	S	00	S00	208		-017	-022	7	17								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH					
015		STD	0000	-0044	3285	2641	0016232		0000		14443												
		OBS	0000	-0044	32850	2641					14443												
		STD	0010	-0049	3285	2642	0016208		0016		14442												
		OBS	0010	-0049	32850	2642					14442												
		STD	0020	-0059	3287	2644	0016013		0032		14439												
		OBS	0020	-0059	32870	2644					14439												
		STD	0030	-0051	3316	2667	0013819		0047		14449												
		OBS	0030	-0051	33160	2667					14449												
		STD	0050	-0045	3332	2679	0012612		0074		14457												
		OBS	0050	-0045	33320	2679					14457												
		STD	0075	-0048	3348	2692	0011368		0104		14462												
		OBS	0075	-0048	3382P	2720P																	
		STD	0100	-0048	3360	2702	0010442		0131		14468												
		OBS	0100	-0048	33600	2702					14468												
		STD	0125	-0009	3367	2706	0010079		0157		14491												
		OBS	0125	-0009	33670	2706					14491												
		STD	0150	0012	3374	2711	0009647		0181		14506												
		OBS	0150	0012	33740	2711					14506												
		STD	0200	0090	3404	2730	0007824		0225		14554												
		OBS	0200	0090	34040	2730					14554												
		STD	0250	0109	3412	2735	0007351		0263		14571												
		OBS	0250	0109	34120	2735					14571												
		STD	0300	0073	3417	2742	0006737		0298		14564												
		OBS	0300	0073	34170	2742					14564												
		STD	0400	0067	3430	2753	0005722		0360		14580												
		OBS	0400	0067	34300	2753					14580												
		STD	0500	0083	3438	2758	0005240		0415		14605												
		OBS	0500	0083	34380	2758					14605												
	STD	0600	0090	3441	2760	0005080		0467		14625													
	OBS	0600	0090	34410	2760					14625													
	STD	0700	0088	3445	2763	0004779		0516		14642													
	OBS	0700	0088	34450	2763					14642													
	STD	0800	0090	3445	2763	0004809		0564		14659													
	OBS	0800	0090	34450	2763					14659													

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUST INDEX	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTDTM	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		
318160	WE	76520N	072220W		260	62	09	28	028	1969	WE2	051		0360					01	X	9	0051	
						WATER		WIND				AIR TEMP. °C											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						DT	S	19	S06	210		-039	-050	8	12								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH					
028		STD	0000	-0074	3295	2651	0015357		0000		14430												
		OBS	0000	-0074	32950	2651					14430												
		STD	0010	-0070	3298	2653	0015136		0015		14434												
		OBS	0010	-0070	32980	2653					14434												
		STD	0020	-0062	3310	2662	0014241		0030		14441												
		OBS	0020	-0062	33100	2662					14441												
		STD	0030	-0057	3317	2668	0013720		0044		14446												
		OBS	0030	-0057	33170	2668					14446												
		STD	0050	-0068	3333	2681	0012445		0070		14447												
		OBS	0050	-0068	33330	2681					14447												
		STD	0075	-0056	3360	2702	0010418		0099		14460												
		OBS	0075	-0056	33600	2702					14460												
		STD	0100	-0043	3372	2711	0009548		0124		14472												
		OBS	0100	-0043	33720	2711					14472												
		STD	0125	-0064	3377	2716	0009069		0147		14467												
		OBS	0125	-0064	33770	2716					14467												
		STD	0150	-0008	3390	2724	0008327		0169		14499												
		OBS	0150	-0008	33900	2724					14499												
		STD	0200	0112	3409	2733	0007590		0208		14564												
		OBS	0200	0112	34090	2733					14564												
		STD	0250	0121	3420	2741	0006829		0244		14578												
		OBS	0250	0121	34200	2741					14578												
		STD	0300	0091	3424	2746	0006328		0277		14573												
		OBS	0300	0091	34240	2746					14573												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSEAN 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		TYPE	AMT	
318160		WE	76450N	073270W	260	63	09	28	048	1969	WE2	052	0160							70	7	5	0052
						WATER		WIND		AIR TEMP. °C													
						COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS								
						DT	S	19	S06	205	-039	-050	8	09									
MESSNGR TIME NR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	Si O ₄ -Si µg - at/l	pH	S CUT						
048		STD	0000	-0154	3208	2583	0021819	0000	14380														
		OBS	0000	-0154	32080	2583			14380														
		STD	0010	-0156	3218	2591	0021037	0021	14383														
		OBS	0010	-0156	32180	2591			14383														
		STD	0020	-0158	3219	2592	0020947	0042	14383														
		OBS	0020	-0158	32190	2592			14383														
		STD	0030	-0150	3240	2608	0019341	0063	14392														
		OBS	0030	-0150	32400	2608			14392														
		STD	0050	-0111	3286	2645	0015899	0098	14420														
		OBS	0050	-0111	32860	2645			14420														
		STD	0075	-0100	3328	2678	0012702	0134	14435														
		OBS	0075	-0100	33280	2678			14435														
		STD	0100	-0084	3350	2695	0011063	0163	14450														
		OBS	0100	-0084	33500	2695			14450														
		STD	0125	-0069	3362	2704	0010193	0190	14463														
	OBS	0125	-0069	33620	2704			14463															
	STD	0150	-0017	3390	2725	0008283	0213	14495															
	OBS	0150	-0017	33900	2725			14495															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE		CLOUD CODES		NO.OC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
318160	WE		75426N	074100W		260	54	09	28	067	1969	WE2 053		0450						70	7	5		0053
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)		DRY BULB	WET BULB											
						DT	S	00	S00	216	-039	-050	8	13										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \text{ol/l}$	TOTAL-P $\mu g - \text{ol/l}$	NO ₂ -N $\mu g - \text{ol/l}$	NO ₃ -N $\mu g - \text{ol/l}$	Si O ₄ -Si $\mu g - \text{ol/l}$	pH	S CC							
067		STD	0000	-0150	3130	2519	0027831	0000	14371															
		OBS	0000	-0150	31300	2519			14371															
		STD	0010	-0150	3200	2576	0022434	0025	14383															
		OBS	0010	-0150	32000	2576			14383															
		STD	0020	-0138	3230	2600	0020146	0046	14394															
		OBS	0020	-0138	32300	2600			14394															
		STD	0030	-0125	3269	2631	0017176	0065	14408															
		OBS	0030	-0125	32690	2631			14408															
		STD	0050	-0128	3282	2642	0016156	0098	14411															
		OBS	0050	-0128	32820	2642			14411															
		STD	0075	-0093	3302	2657	0014716	0137	14435															
		OBS	0075	-0093	33020	2657			14435															
		STD	0100	-0116	3332	2682	0012328	0171	14432															
		OBS	0100	-0116	33320	2682			14432															
		STD	0125	-0102	3370	2712	0009456	0198	14448															
		OBS	0125	-0102	33700	2712			14448															
		STD	0150	-0061	3375	2715	0009225	0221	14472															
		OBS	0150	-0061	33750	2715			14472															
	STD	0200	0076	3400	2728	0008038	0265	14547																
	OBS	0200	0076	34000	2728			14547																
	STD	0250	0022	3404	2734	0007410	0303	14531																
	OBS	0250	0022	34040	2734			14531																
	STD	0300	0045	3422	2747	0006181	0337	14552																
	OBS	0300	0045	34220	2747			14552																
	STD	0400	0024	3432	2757	0005292	0395	14561																
	OBS	0400	0024	34320	2757			14561																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'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
318160	WE		76408N	074490W	260	64	09	28	088	1969	WE2	054	0470					01	7	7	0054	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						DT	S	00	S00	216	-034	-050	8	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C					
		STD	0000	-0130	3140	2527	0027101	0000	14382													
088		OBS	0000	-0130	31400	2527			14382													
		STD	0010	-0152	3146	2532	0026585	0027	14374													
		OBS	0010	-0152	31460	2532			14374													
		STD	0020	-0146	3175	2556	0024356	0052	14383													
		OBS	0020	-0146	31750	2556			14383													
		STD	0030	-0133	3208	2582	0021840	0075	14395													
		OBS	0030	-0133	32080	2582			14395													
		STD	0050	-0117	3249	2615	0018719	0116	14412													
		OBS	0050	-0117	32490	2615			14412													
		STD	0075	-0108	3294	2651	0015279	0158	14427													
		OBS	0075	-0108	32940	2651			14427													
		STD	0100	-0102	3317	2669	0013523	0194	14437													
		OBS	0100	-0102	33170	2669			14437													
		STD	0125	-0095	3342	2689	0011622	0226	14448													
		OBS	0125	-0095	33420	2689			14448													
		STD	0150	-0094	3343	2690	0011537	0255	14452													
		OBS	0150	-0094	33430	2690			14452													
		STD	0200	-0072	3394	2730	0007711	0303	14478													
		OBS	0200	-0072	33940	2730			14478													
		STD	0250	-0044	3412	2744	0006453	0338	14502													
		OBS	0250	-0044	34120	2744			14502													
		STD	0300	-0032	3420	2750	0005894	0369	14517													
		OBS	0300	-0032	34200	2750			14517													
		STD	0400	-0008	3430	2757	0005251	0425	14546													
		STD	0500	0015	3433	2758	0005155	0477	14573													
		OBS	0500	0015	34330	2758			14573													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'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
318160	WE		76372N	075360W	260	65	09	28	105	1969	WE2	055	0430					02	7	7	0055	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						DT	S	23	S04	231	-034	-050	8	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C					
		STD	0000	-0148	3160	2544	0025525	0000	14377													
105		OBS	0000	-0148	31600	2544			14377													
		STD	0010	-0152	3168	2550	0024892	0025	14377													
		OBS	0010	-0152	31680	2550			14377													
		STD	0020	-0155	3175	2556	0024338	0050	14379													
		OBS	0020	-0155	31750	2556			14379													
		STD	0030	-0150	3237	2606	0019572	0072	14391													
		OBS	0030	-0150	32370	2606			14391													
		STD	0050	-0121	3265	2628	0017480	0109	14412													
		OBS	0050	-0121	32650	2628			14412													
		STD	0075	-0102	3298	2654	0014992	0149	14430													
		OBS	0075	-0102	32980	2654			14430													
		STD	0100	-0090	3330	2679	0012570	0184	14444													
		OBS	0100	-0090	33300	2679			14444													
		STD	0125	-0067	3355	2699	0010736	0213	14463													
		OBS	0125	-0067	33550	2699			14463													
		STD	0150	-0082	3362	2705	0010131	0239	14461													
		OBS	0150	-0082	33620	2705			14461													
		STD	0200	-0068	3391	2728	0007957	0284	14480													
		OBS	0200	-0068	33910	2728			14480													
		STD	0250	-0047	3412	2744	0006439	0320	14501													
		OBS	0250	-0047	34120	2744			14501													
		STD	0300	-0035	3422	2751	0005727	0351	14516													
		OBS	0300	-0035	34220	2751			14516													
		STD	0400	-0028	3431	2758	0005062	0405	14537													
		OBS	0400	-0028	34310	2758			14537													

TABLE III.—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 S'MPL'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		TYPE	AMT	
318160		WE	76120N	074360W		260	64	09	28	145	1969	WE2	056	027						02	7	7	0056
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						DT	S	00	500	244	-022	-031	11										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC						
145		STD	0000	-0088	3255	2619	0018378	0000	14418														
		OBS	0000	-0088	32550	2619			14418														
		STD	0010	-0102	3262	2625	0017792	0018	14414														
		OBS	0010	-0102	32620	2625			14414														
		STD	0020	-0109	3264	2627	0017612	0036	14413														
		OBS	0020	-0109	32640	2627			14413														
		STD	0030	-0105	3268	2630	0017310	0053	14417														
		OBS	0030	-0105	32680	2630			14417														
		STD	0050	-0097	3312	2665	0013951	0085	14430														
		OBS	0050	-0097	33120	2665			14430														
		STD	0075	-0100	3333	2682	0012319	0117	14436														
		OBS	0075	-0100	33330	2682			14436														
		STD	0100	-0088	3344	2691	0011507	0147	14447														
		OBS	0100	-0088	33440	2691			14447														
		STD	0125	-0120	3355	2701	0010541	0175	14438														
		OBS	0125	-0120	33550	2701			14438														
		STD	0150	-0115	3364	2708	0009856	0200	14446														
		OBS	0150	-0115	33640	2708			14446														
	STD	0200	0002	3395	2728	0007990	0245	14512															
	OBS	0200	0002	33950	2728			14512															
	STD	0250	0043	3406	2735	0007382	0283	14541															
	OBS	0250	0043	34060	2735			14541															

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				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	SEA		TYPE	AMT	
318160	WE	76170N	074020W	260	64	09	28	166	1969	WE2	057	0420							02	6	8	0057	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	00	500	255	-022	-031	7	13									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	SC						
166		STD	0000	-0145	3250	2616	0018608	0000	14391														
		OBS	0000	-0145	32500	2616			14391														
		STD	0010	-0105	3277	2637	0016633	0018	14415														
		OBS	0010	-0105	32770	2637			14415														
		STD	0020	-0093	3283	2642	0016203	0034	14423														
		OBS	0020	-0093	32830	2642			14423														
		STD	0030	-0089	3311	2664	0014065	0049	14430														
		OBS	0030	-0089	33110	2664			14430														
		STD	0050	-0090	3332	2681	0012443	0076	14436														
		OBS	0050	-0090	33320	2681			14436														
		STD	0075	-0101	3347	2694	0011244	0105	14437														
		OBS	0075	-0101	33470	2694			14437														
		STD	0100	-0088	3360	2704	0010283	0132	14449														
		OBS	0100	-0088	33600	2704			14449														
		STD	0125	-0076	3372	2713	0009402	0157	14461														
		OBS	0125	-0076	33720	2713			14461														
		STD	0150	-0045	3383	2720	0008685	0179	14481														
		OBS	0150	-0045	33830	2720			14481														
		STD	0200	0014	3405	2735	0007295	0219	14519														
		OBS	0200	0014	34050	2735			14519														
		STD	0250	-0009	3414	2744	0006480	0254	14518														
		OBS	0250	-0009	34140	2744			14518														
		STD	0300	0016	3425	2751	0005779	0284	14540														
		OBS	0300	0016	34250	2751			14540														
		STD	0400	-0025	3432	2759	0005003	0338	14538														
		OBS	0400	-0025	34320	2759			14538														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	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		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
318160	WE		76210N	073240W		260	63	09	28	177	1969	WE2 058	0550					01	6	7	0058
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
						DT	S	00	S00	257	-028	-044	7	14							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			S C C
	177	STD	0000	-0130	3255	2620	0018260		0000		14398										
		OBS	0000	-0130	32550	2620					14398										
		STD	0010	-0133	3270	2632	0017093		0018		14401										
		OBS	0010	-0133	32700	2632					14401										
		STD	0020	-0120	3300	2656	0014818		0034		14413										
		OBS	0020	-0120	33000	2656					14413										
		STD	0030	-0075	3341	2688	0011816		0047		14441										
		OBS	0030	-0075	33410	2688					14441										
		STD	0050	-0069	3347	2692	0011371		0070		14448										
		OBS	0050	-0069	33470	2692					14448										
		STD	0075	-0114	3362	2706	0010052		0097		14433										
		OBS	0075	-0114	33620	2706					14433										
		STD	0100	-0035	3381	2718	0008897		0121		14477										
		OBS	0100	-0035	33810	2718					14477										
		STD	0125	0000	3382	2718	0008981		0143		14497										
		OBS	0125	0000	33820	2718					14497										
		STD	0150	0002	3395	2728	0007998		0164		14504										
		OBS	0150	0002	33950	2728					14504										
		STD	0200	-0010	3406	2737	0007091		0202		14508										
		OBS	0200	-0010	34060	2737					14508										
		STD	0250	-0008	3416	2745	0006333		0235		14519										
		OBS	0250	-0008	34160	2745					14519										
		STD	0300	0007	3424	2751	0005803		0266		14535										
		OBS	0300	0007	34240	2751					14535										
		STD	0400	-0020	3428	2756	0005334		0321		14540										
		OBS	0400	-0020	34280	2756					14540										
		STD	0500	0022	3435	2759	0005049		0373		14577										
		OBS	0500	0022	34350	2759					14577										

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	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		NDDC STATION NUMBER		
CITY CODE	ID. NO.	10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT			
318160	WE		76250N	072470W		260	62	09	28	189	1969	WE2 059	0530					01	6	7	0059
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
						DT	S	00	S00	260	-028	-044	7	14							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			S C C
	189	STD	0000	-0080	3302	2656	0014801		0000		14428										
		OBS	0000	-0080	33020	2656					14428										
		STD	0010	-0088	3302	2657	0014769		0015		14426										
		OBS	0010	-0088	33020	2657					14426										
		STD	0020	-0087	3305	2659	0014536		0029		14429										
		OBS	0020	-0087	33050	2659					14429										
		STD	0030	-0085	3310	2663	0014155		0044		14432										
		OBS	0030	-0085	33100	2663					14432										
		STD	0050	-0092	3346	2692	0011364		0069		14437										
		OBS	0050	-0092	33460	2692					14437										
		STD	0075	-0088	3366	2708	0009836		0096		14446										
		OBS	0075	-0088	33660	2708					14446										
		STD	0100	-0062	3377	2716	0009086		0119		14464										
		OBS	0100	-0062	33770	2716					14464										
		STD	0125	-0030	3386	2722	0008531		0141		14484										
		OBS	0125	-0030	33860	2722					14484										
		STD	0150	0037	3403	2733	0007578		0162		14521										
		OBS	0150	0037	34030	2733					14521										
		STD	0200	0067	3415	2740	0006845		0198		14545										
		OBS	0200	0067	34150	2740					14545										
		STD	0250	0053	3420	2745	0006381		0231		14547										
		OBS	0250	0053	34200	2745					14547										
		STD	0300	0045	3430	2754	0005575		0261		14553										
		OBS	0300	0045	34300	2754					14553										
		STD	0400	0000	3433	2759	0005071		0314		14550										
		OBS	0400	0000	34330	2759					14550										
		STD	0500	0066	3444	2764	0004667		0363		14598										
		OBS	0500	0066	34440	2764					14598										

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318160	WE	76290N	072070W		260	62	09	28	205	1969	WE2	060	0370						02	6	7		0060
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
					OT	S	00	500	265	-022	-028	7	12										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \theta$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	ST CODE				
205		STD	0000	-0064	3300	2654		0015009		0000	14436												
		OBS	0000	-0064	33000	2654					14436												
		STD	0010	-0070	3306	2659		0014523		0015	14435												
		OBS	0010	-0070	33060	2659					14435												
		STD	0020	-0071	3307	2660		0014438		0029	14437												
		OBS	0020	-0071	33070	2660					14437												
		STD	0030	-0073	3309	2662		0014273		0044	14438												
		OBS	0030	-0073	33090	2662					14438												
		STD	0050	-0086	3345	2691		0011461		0069	14440												
		OBS	0050	-0086	33450	2691					14440												
		STD	0075	-0050	3355	2698		0010825		0097	14462												
		OBS	0075	-0050	33550	2698					14462												
		STD	0100	-0020	3374	2712		0009499		0123	14483												
		OBS	0100	-0020	33740	2712					14483												
		STD	0125	0043	3386	2719		0008905		0146	14517												
		OBS	0125	0043	33860	2719					14517												
		STD	0150	0040	3392	2724		0008431		0167	14521												
		OBS	0150	0040	33920	2724					14521												
		STD	0200	0115	3407	2731		0007762		0208	14565												
		OBS	0200	0115	34070	2731					14565												
		STD	0250	0140	3420	2740		0006964		0245	14586												
		OBS	0250	0140	34200	2740					14586												
		STD	0300	0138	3434	2751		0005905		0277	14596												
		OBS	0300	0138	34340	2751					14596												

REFERENCE		SHIP	LATITUDE	LONGITUDE	PORT	MARSEN		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD		NODC									
CRST	ID.	CODE	"	"		10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO			DEPTH	OBSERVATIONS	THE- R CODE	TYPE		AMT	STATION										
CODE	NO.				INDIC							NUMBER	BOTTOM	OF	S'PL'S	DIR.	HGT	PER	SEA	CODE		NUMBER										
	318160	WE	76339N	071310W		260	61	09	28	217	1969	WE2	061	0440						02	6	7	0061									
						WATER		WIND		BARO-		AIR TEMP. °C		VIS	NO.	SPECIAL																
						COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	CODE											DEPTHS	OBS.							
						CODE	(m)		OR	(mb)	BULB	BULB																				
						DT	S	00	500	265	-022	-028	7	13																		
MESSAGE	TIME	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	ST														
HR	1/10	NO.	TYPE					ANOMALY-σ _t	OTN. M. x 10 ³	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		CODE														
217			STD	0000	-0040	3290	2645	0015864	0000	14445																						
			OBS	0000	-0040	32900	2645			14445																						
			STD	0010	-0050	3300	2654	0015056	0015	14444																						
			OBS	0010	-0050	33000	2654			14444																						
			STD	0020	-0055	3303	2656	0014803	0030	14443																						
			OBS	0020	-0055	33030	2656			14443																						
			STD	0030	-0057	3307	2660	0014485	0045	14445																						
			OBS	0030	-0057	33070	2660			14445																						
			STD	0050	-0070	3318	2669	0013586	0073	14444																						
			OBS	0050	-0070	33180	2669			14444																						
			STD	0075	-0035	3345	2689	0011652	0105	14468																						
			OBS	0075	-0035	33450	2689			14468																						
			STD	0100	-0001	3363	2702	0010428	0132	14490																						
			OBS	0100	-0001	33630	2702			14490																						
			STD	0125	0011	3371	2708	0009875	0158	14501																						
			OBS	0125	0011	33710	2708			14501																						
			STD	0150	0042	3382	2715	0009202	0181	14521																						
			OBS	0150	0042	33820	2715			14521																						
			STD	0200	0100	3400	2726	0008192	0225	14558																						
			OBS	0200	0100	34000	2726			14558																						
			STD	0250	0144	3412	2733	0007598	0264	14587																						
			OBS	0250	0144	34120	2733			14587																						
			STD	0300	0150	3420	2739	0007051	0301	14599																						
			OBS	0300	0150	34200	2739			14599																						
			STD	0400	0154	3434	2750	0006055	0367	14619																						
			OBS	0400	0154	34340	2750			14619																						

TABLE III.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRAFT METER	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	76388N	070523W		260	60	09	28	230	1969	WE2	062	0210						73	X	9	0062
		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	DRY BULB	WET BULB	CODE	CODE												
		DT	S	00	500	272	-022	-028	7	10													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CLC						
230		STD	0000	-0010	3209	2579	0022182	0000	14448														
		OBS	0000	-0010	32090	2579			14448														
		STD	0010	-0011	3216	2584	0021637	0022	14450														
		OBS	0010	-0011	32160	2584			14450														
		STD	0020	-0006	3225	2591	0020965	0043	14455														
		OBS	0020	-0006	32250	2591			14455														
		STD	0030	-0004	3260	2620	0018295	0063	14463														
		OBS	0030	-0004	32600	2620			14463														
		STD	0050	-0015	3280	2636	0016711	0098	14464														
		OBS	0050	-0015	32800	2636			14464														
		STD	0075	-0032	3308	2659	0014490	0137	14464														
		OBS	0075	-0032	33080	2659			14464														
		STD	0100	-0028	3326	2674	0013124	0171	14472														
		OBS	0100	-0028	33260	2674			14472														
		STD	0125	-0023	3347	2690	0011537	0202	14482														
		OBS	0125	-0023	33470	2690			14482														
	STD	0150	0005	3365	2704	0010296	0229	14501															
	OBS	0150	0005	33650	2704			14501															
	STD	0200	0054	3385	2717	0009042	0278	14535															
	OBS	0200	0054	33850	2717			14535															

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT DIRECTION	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
318160		WE	76202N	070100W		260	60	09	30	158	1969	WE2	063	0200					71	X	9		0063
		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		CODE		CODE											
		DT	S	20	509	233		-011		-017		4		10									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH		CLC	
158		STD	0000	-0020	3175	2552		0024745		0000		14439											
		OBS	0000	-0020	31750	2552						14439											
		STD	0010	-0028	3180	2556		0024326		0025		14437											
		OBS	0010	-0028	31800	2556						14437											
		STD	0020	-0027	3188	2562		0023712		0049		14440											
		OBS	0020	-0027	31880	2562						14440											
		STD	0030	-0016	3222	2589		0021149		0071		14452											
		OBS	0030	-0016	32220	2589						14452											
		STD	0050	-0008	3253	2614		0018804		0111		14463											
		OBS	0050	-0008	32530	2614						14463											
		STD	0075	-0016	3303	2655		0014942		0153		14471											
		OBS	0075	-0016	33030	2655						14471											
		STD	0100	-0016	3327	2674		0013102		0188		14478											
		OBS	0100	-0016	33270	2674						14478											
		STD	0125	-0004	3348	2690		0011551		0219		14491											
		OBS	0125	-0004	33480	2690						14491											
	STD	0150	-0002	3356	2697		0010946		0247		14497												
	OBS	0150	-0002	33560	2697						14497												
	STD	0200	0007	3364	2703		0010373		0300		14510												
	OBS	0200	0007	33640	2703						14510												

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT INCHES	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.	CODE	° 1/10	° 1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR	HGT	PER	SEA	TYPE	AMT					
318160	WE		76140N	070460W		260	60	09	30	173	1969	WE2	064		0610				02	X	9	0064	
						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	VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						DT	S	14	S15	223	-011	-017	7	15									
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
173		STD	0000	-0080	3295	2651	0015337		0000	14427													
		OBS	0000	-0080	32950	2651				14427													
		STD	0010	-0083	3297	2653	0015168		0015	14428													
		OBS	0010	-0083	32970	2653				14428													
		STD	0020	-0087	3300	2655	0014920		0030	14428													
		OBS	0020	-0087	33000	2655				14428													
		STD	0030	-0089	3305	2659	0014524		0045	14430													
		OBS	0030	-0089	33050	2659				14430													
		STD	0050	-0075	3336	2684	0012190		0072	14444													
		OBS	0050	-0075	33360	2684				14444													
		STD	0075	-0040	3355	2698	0010867		0101	14467													
		OBS	0075	-0040	33550	2698				14467													
		STD	0100	-0002	3363	2702	0010424		0127	14490													
		OBS	0100	-0002	33630	2702				14490													
		STD	0125	0028	3374	2710	0009736		0152	14509													
		OBS	0125	0028	33740	2710				14509													
		STD	0150	0054	3385	2717	0009043		0176	14526													
		OBS	0150	0054	33850	2717				14526													
		STD	0200	0102	3399	2725	0008281		0219	14558													
		OBS	0200	0102	33990	2725				14558													
	STD	0250	0151	3417	2737	0007272		0258	14591														
	OBS	0250	0151	34170	2737				14591														
	STD	0300	0170	3428	2744	0006600		0293	14609														
	OBS	0300	0170	34280	2744				14609														
	STD	0400	0031	3431	2755	0005412		0353	14564														
	OBS	0400	0031	34310	2755				14564														
	STD	0500	-0002	3433	2759	0005049		0405	14566														
	OBS	0500	-0002	34330	2759				14566														
	STD	0600	0080	3443	2762	0004854		0455	14621														
	OBS	0600	0080	34430	2762				14621														

REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT INCHES	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.	CODE	° 1/10		° 1/10	10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR	HGT	PER	SEA	TYPE	AMT				
318160	WE		76090N	071225W		260	61	09	30	187	1969	WE2	065		0530				73	X	9	0065
						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	VIL CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						DT	S	14	S14	220	-003	-014	6	14								
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
187		STD	0000	-0070	3290	2646	0015754		0000	14431												
		OBS	0000	-0070	32900	2646				14431												
		STD	0010	-0072	3292	2648	0015589		0016	14432												
		OBS	0010	-0072	32920	2648				14432												
		STD	0020	-0074	3294	2650	0015423		0031	14433												
		OBS	0020	-0074	32940	2650				14433												
		STD	0030	-0071	3330	2679	0012673		0045	14441												
		OBS	0030	-0071	33300	2679				14441												
		STD	0050	-0089	3349	2695	0011145		0069	14439												
		OBS	0050	-0089	33490	2695				14439												
		STD	0075	-0090	3365	2708	0009905		0095	14445												
		OBS	0075	-0090	33650	2708				14445												
		STD	0100	-0068	3378	2717	0008985		0119	14461												
		OBS	0100	-0068	33780	2717				14461												
		STD	0125	-0023	3389	2724	0008336		0141	14488												
		OBS	0125	-0023	33890	2724				14488												
		STD	0150	-0003	3397	2730	0007820		0161	14502												
		OBS	0150	-0003	33970	2730				14502												
		STD	0200	-0045	3405	2738	0006994		0198	14492												
		OBS	0200	-0045	34050	2738				14492												
		STD	0250	-0032	3414	2745	0006361		0231	14508												
		OBS	0250	-0032	34140	2745				14508												
		STD	0300	0040	3425	2750	0005923		0262	14550												
		OBS	0300	0040	34250	2750				14550												
		STD	0400	-0013	3430	2757	0005222		0318	14544												
		OBS	0400	-0013	34300	2757				14544												
		STD	0500	-0007	3433	2759	0005018		0369	14563												
		OBS	0500	-0007	34330	2759				14563												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. DEPTH m	MARS 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		TYPE	AMT				
318160	WE		76040N	071550W	260	61	09	30	198	1969	WE2	066	0430						02	6	8	0066				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE		DRY RULR	WET RULR														
						DT	S	14	S14		218	-003					-014	6	13							
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	ND ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE									
198		STD	0000	-0070	3300	2654	0014988	0000	14433																	
		OBS	0000	-0070	33000	2654			14433																	
		STD	0010	-0080	3304	2658	0014642	0015	14430																	
		OBS	0010	-0080	33040	2658			14430																	
		STD	0020	-0086	3305	2659	0014540	0029	14429																	
		OBS	0020	-0086	33050	2659			14429																	
		STD	0030	-0089	3313	2666	0013912	0044	14431																	
		OBS	0030	-0089	33130	2666			14431																	
		STD	0050	-0089	3353	2698	0010838	0068	14440																	
		OBS	0050	-0089	33530	2698			14440																	
		STD	0075	-0087	3365	2708	0009916	0094	14446																	
		OBS	0075	-0087	33650	2708			14446																	
		STD	0100	-0072	3376	2716	0009122	0118	14459																	
		OBS	0100	-0072	33760	2716			14459																	
		STD	0125	-0042	3394	2729	0007867	0139	14480																	
		OBS	0125	-0042	33940	2729			14480																	
		STD	0150	0030	3404	2734	0007463	0159	14518																	
		OBS	0150	0030	34040	2734			14518																	
		STD	0200	0035	3412	2740	0006881	0194	14530																	
		OBS	0200	0035	34120	2740			14530																	
		STD	0250	-0010	3417	2746	0006247	0227	14518																	
		OBS	0250	-0010	34170	2746			14518																	
		STD	0300	-0023	3423	2752	0005714	0257	14521																	
		OBS	0300	-0023	34230	2752			14521																	
		STD	0400	-0014	3432	2759	0005065	0311	14543																	
		OBS	0400	-0014	34320	2759			14543																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. DEPTH m	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./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318160	WE		75580N	072310W	260	52	09	30	217	1969	WE2	067	0340						02	6	8		0067	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
		DT	S	14	S14	218	-003	-014	6	12														
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	ND ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE							
217		STD	0000	-0070	3280	2638	0016520	0000	14430															
		OBS	0000	-0070	32800	2638			14430															
		STD	0010	-0065	3290	2646	0015767	0016	14435															
		OBS	0010	-0065	32900	2646			14435															
		STD	0020	-0088	3302	2657	0014763	0031	14428															
		OBS	0020	-0088	33020	2657			14428															
		STD	0030	-0080	3325	2675	0013023	0045	14437															
		OBS	0030	-0080	33250	2675			14437															
		STD	0050	-0097	3357	2701	0010504	0069	14436															
		OBS	0050	-0097	33570	2701			14436															
		STD	0075	-0095	3370	2712	0009505	0094	14443															
		OBS	0075	-0095	33700	2712			14443															
		STD	0100	-0050	3385	2722	0008525	0116	14470															
		OBS	0100	-0050	33850	2722			14470															
		STD	0125	-0011	3391	2725	0008241	0137	14493															
		OBS	0125	-0011	33910	2725			14493															
		STD	0150	0030	3405	2735	0007387	0157	14518															
		OBS	0150	0030	34050	2735			14518															
		STD	0200	0048	3415	2742	0006729	0192	14536															
		OBS	0200	0048	34150	2742			14536															
		STD	0250	0033	3424	2750	0005957	0224	14539															
		OBS	0250	0033	34240	2750			14539															
		STD	0300	0008	3426	2753	0005657	0253	14536															
		OBS	0300	0008	34260	2753			14536															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
318160		WE	75530N	073050W		260	53	09	30	229	1969	WE2	068	0340					02	6	18	0068				
						WATER		WIND		AIR TEMP. °C																
						CDLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARD- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						DT	S	14	S20	204	-003	-014	6	12												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C									
229		STD	0000	-0100	3275	2635	0016807	0000	14415																	
		OBS	0000	-0100	32750	2635			14415																	
		STD	0010	-0103	3278	2638	0016562	0017	14416																	
		OBS	0010	-0103	32780	2638			14416																	
		STD	0020	-0100	3292	2649	0015491	0033	14421																	
		OBS	0020	-0100	32920	2649			14421																	
		STD	0030	-0060	3315	2666	0013862	0047	14444																	
		OBS	0030	-0060	33150	2666			14444																	
		STD	0050	-0087	3352	2697	0010922	0072	14440																	
		OBS	0050	-0087	33520	2697			14440																	
		STD	0075	-0100	3365	2708	0009869	0098	14440																	
		OBS	0075	-0100	33650	2708			14440																	
		STD	0100	-0083	3376	2716	0009079	0122	14454																	
		OBS	0100	-0083	33760	2716			14454																	
		STD	0125	-0030	3388	2724	0008379	0144	14484																	
		OBS	0125	-0030	33880	2724			14484																	
		STD	0150	0002	3400	2732	0007617	0164	14505																	
		OBS	0150	0002	34000	2732			14505																	
		STD	0200	0038	3413	2741	0006822	0200	14531																	
		OBS	0200	0038	34130	2741			14531																	
		STD	0250	0044	3420	2746	0006326	0233	14543																	
		OBS	0250	0044	34200	2746			14543																	
		STD	0300	0007	3427	2753	0005576	0262	14536																	
		OBS	0300	0007	34270	2753			14536																	

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	IO. NO.	CODE	* 1/10	* 1/10		10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318160		WE	75480N	073400W		260	53	10	01	002	1969	WE2	069	0350						02	X	9	0069			
						WATER		WIND		AIR TEMP. °C																
						CDLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARD- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						DT	S	22	S20	200	000	-006	6	12												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C									
002		STD	0000	-0090	3285	2643	0016071	0000	14421																	
		OBS	0000	-0090	32850	2643			14421																	
		STD	0010	-0093	3290	2647	0015672	0016	14422																	
		OBS	0010	-0093	32900	2647			14422																	
		STD	0020	-0085	3290	2647	0015693	0032	14428																	
		OBS	0020	-0085	32900	2647			14428																	
		STD	0030	-0089	3346	2692	0011384	0045	14435																	
		OBS	0030	-0089	33460	2692			14435																	
		STD	0050	-0098	3363	2706	0010042	0067	14437																	
		OBS	0050	-0098	33630	2706			14437																	
		STD	0075	-0088	3370	2712	0009530	0091	14447																	
		OBS	0075	-0088	33700	2712			14447																	
		STD	0100	-0060	3381	2719	0008789	0114	14465																	
		OBS	0100	-0060	33810	2719			14465																	
		STD	0125	-0022	3392	2727	0008112	0135	14489																	
		OBS	0125	-0022	33920	2727			14489																	
		STD	0150	0040	3406	2735	0007367	0154	14523																	
		OBS	0150	0040	34060	2735			14523																	
		STD	0200	0046	3414	2741	0006793	0190	14535																	
		OBS	0200	0046	34140	2741			14535																	
		STD	0250	0028	3421	2748	0006155	0222	14536																	
		OBS	0250	0028	34210	2748			14536																	
		STD	0300	0010	3425	2752	0005745	0252	14537																	
		OBS	0300	0010	34250	2752			14537																	

TABLE III.—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		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
318160	WE	75360N	072540W	260	52	10	01	018	1969	WE2	070	0480						02	X	9	0070
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mi	DIR.	SPEED OF FORCE		DRY BULB	WET BULB									
						DT	S	22	S20		196	000				-006	7	13			
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t^s		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH			
018		STD	0000	-0093	3284	2642		0016138		0000	14420										
		OBS	0000	-0093	32840	2642					14420										
		STD	0010	-0100	3287	2645		0015881		0016	14419										
		OBS	0010	-0100	32870	2645					14419										
		STD	0020	-0103	3328	2678		0012722		0030	14425										
		OBS	0020	-0103	33280	2678					14425										
		STD	0030	-0115	3347	2694		0011222		0042	14423										
		OBS	0030	-0115	33470	2694					14423										
		STD	0050	-0126	3361	2706		0010104		0064	14423										
		OBS	0050	-0126	33610	2706					14423										
		STD	0075	-0096	3370	2712		0009501		0088	14443										
		OBS	0075	-0096	33700	2712					14443										
		STD	0100	-0080	3375	2715		0009167		0111	14455										
		OBS	0100	-0080	33750	2715					14455										
		STD	0125	-0003	3394	2727		0008052		0133	14498										
		OBS	0125	-0003	33940	2727					14498										
		STD	0150	0074	3402	2730		0007871		0153	14538										
		OBS	0150	0074	34020	2730					14538										
		STD	0200	0142	3421	2740		0006891		0190	14579										
		OBS	0200	0142	34210	2740					14579										
		STD	0250	0132	3427	2746		0006378		0223	14584										
		OBS	0250	0132	34270	2746					14584										
		STD	0300	-0007	3427	2754		0005497		0253	14529										
		OBS	0300	-0007	34270	2754					14529										
		STD	0400	-0014	3431	2758		0005141		0306	14543										
		OBS	0400	-0014	34310	2758					14543										
		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		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
318160	WE	75420N	072220W	260	52	10	01	031	1969	WE2	071	0410						02	X	9	0071
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mi	DIR.	SPEED OF FORCE		DRY BULB	WET BULB									
						DT	S	18	S10		192	-011				-022	7	13			
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t^s		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH			
031		STD	0000	-0095	3295	2651		0015289		0000	14420										
		OBS	0000	-0095	32950	2651					14420										
		STD	0010	-0096	3297	2653		0015126		0015	14422										
		OBS	0010	-0096	32970	2653					14422										
		STD	0020	-0096	3300	2655		0014890		0030	14424										
		OBS	0020	-0096	33000	2655					14424										
		STD	0030	-0100	3335	2684		0012190		0044	14429										
		OBS	0030	-0100	33350	2684					14429										
		STD	0050	-0107	3356	2701		0010547		0066	14432										
		OBS	0050	-0107	33560	2701					14432										
		STD	0075	-0094	3367	2709		0009738		0092	14443										
		OBS	0075	-0094	33670	2709					14443										
		STD	0100	-0048	3377	2716		0009145		0115	14470										
		OBS	0100	-0048	33770	2716					14470										
		STD	0125	-0008	3388	2723		0008484		0137	14494										
		OBS	0125	-0008	33880	2723					14494										
		STD	0150	0049	3398	2728		0008027		0158	14526										
		OBS	0150	0049	33980	2728					14526										
		STD	0200	0050	3416	2742		0006665		0195	14537										
		OBS	0200	0050	34160	2742					14537										
		STD	0250	0031	3419	2746		0006325		0227	14537										
		OBS	0250	0031	34190	2746					14537										
		STD	0300	0004	3425	2752		0005710		0257	14534										
		OBS	0300	0004	34250	2752					14534										
		STD	0400	-0007	3429	2756		0005333		0313	14546										
		OBS	0400	-0007	34290	2756					14546										

TABLE III.—Continued

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 SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE	75480N	071380W	260	51	10	01	044	1969	WE2	072	0410						70	X	7		0072	
				COLOR CODE	WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS									
					TRANS. (m)	DIR.	SPEED OR FORCE			DRY RULR	WET RULR												
				DT	S	18	S10	187	-011	-022	7	13											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST C						
044		STD	0000	-0062	3290	2646	0015782	0000	14435														
		OBS	0000	-0062	32900	2646			14435														
		STD	0010	-0067	3291	2647	0015683	0016	14435														
		OBS	0010	-0067	32910	2647			14435														
		STD	0020	-0068	3301	2655	0014909	0031	14437														
		OBS	0020	-0068	33010	2655			14437														
		STD	0030	-0065	3322	2672	0013307	0045	14443														
		OBS	0030	-0065	33220	2672			14443														
		STD	0050	-0080	3352	2697	0010947	0069	14444														
		OBS	0050	-0080	33520	2697			14444														
		STD	0075	-0089	3363	2706	0010062	0096	14445														
		OBS	0075	-0089	33630	2706			14445														
		STD	0100	-0074	3378	2718	0008961	0119	14458														
		OBS	0100	-0074	33780	2718			14458														
		STD	0125	-0035	3394	2729	0007898	0141	14483														
		OBS	0125	-0035	33940	2729			14483														
		STD	0150	-0012	3395	2729	0007927	0160	14498														
		OBS	0150	-0012	33950	2729			14498														
		STD	0200	-0017	3401	2734	0007435	0199	14505														
		OBS	0200	-0017	34010	2734			14505														
		STD	0250	0020	3420	2747	0006185	0233	14532														
		OBS	0250	0020	34200	2747			14532														
		STD	0300	-0014	3423	2751	0005762	0263	14526														
		OBS	0300	-0014	34230	2751			14526														
		STD	0400	-0015	3429	2756	0005287	0318	14543														
		OBS	0400	-0015	34290	2756			14543														

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 SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE	75550N	071100W	260	51	10	01	058	1969	WE2	073	0410						01	X	7		0073	
				WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS									
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULR	WET RULR													
				DT	S	19	S05	179	-011	-022	5	13											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST C		
058		STD	0000	-0073	3292	2648		0015591		0000		14430											
		OBS	0000	-0073	32920	2648						14430											
		STD	0010	-0074	3294	2650		0015429		0016		14432											
		OBS	0010	-0074	32940	2650						14432											
		STD	0020	-0075	3300	2655		0014960		0031		14434											
		OBS	0020	-0075	33000	2655						14434											
		STD	0030	-0063	3311	2663		0014156		0045		14443											
		OBS	0030	-0063	33110	2663						14443											
		STD	0050	-0069	3346	2692		0011447		0071		14448											
		OBS	0050	-0069	33460	2692						14448											
		STD	0075	-0068	3358	2701		0010523		0098		14454											
		OBS	0075	-0068	33580	2701						14454											
		STD	0100	-0037	3372	2711		0009574		0123		14475											
		OBS	0100	-0037	33720	2711						14475											
		STD	0125	0026	3385	2719		0008888		0147		14510											
		OBS	0125	0026	33850	2719						14510											
		STD	0150	0053	3393	2724		0008429		0168		14527											
		OBS	0150	0053	33930	2724						14527											
		STD	0200	0075	3406	2733		0007577		0208		14547											
		OBS	0200	0075	34060	2733						14547											
		STD	0250	0070	3416	2741		0006791		0244		14555											
		OBS	0250	0070	34160	2741						14555											
		STD	0300	0045	3422	2747		0006181		0277		14552											
		OBS	0300	0045	34220	2747						14552											
		STD	0400	-0012	3428	2755		0005380		0334		14544											
		OBS	0400	-0012	34280	2755						14544											

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC			
CTRY	ID.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	DIR.	HGT	PER	SEA	THE	CODES	STATION	
CODE	NO.											NO.	NUMBER	BOTTOM	OF					CODE	TYPE	NUMBER	
318160	WE		76010N	070480W		260	60	10	01	065	1969	WE2	074	0490						02	7 7	0074	
						WATER		WIND				AIR TEMP. °C											
						COLOR	TRANS.	DIR.	SPEED	BARO-	DRY		WET	VIS.	NO.								
						CODE	(m)		OR	METER	BULB		BULB	CODE	OBS.								
						DT	S	19	S05	179	-011	-022	9	13									
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T																	
TIME	NO.	TYPE																					
HR 1/10																							
		STD	0000	-0074	3291	2647	0015664	0000	14430														
065		OBS	0000	-0074	32910	2647			14430														
		STD	0010	-0081	3296	2652	0015252	0015	14429														
		OBS	0010	-0081	32960	2652			14429														
		STD	0020	-0081	3307	2661	0014404	0030	14432														
		OBS	0020	-0081	33070	2661			14432														
		STD	0030	-0070	3327	2676	0012906	0044	14442														
		OBS	0030	-0070	33270	2676			14442														
		STD	0050	-0086	3350	2695	0011079	0068	14441														
		OBS	0050	-0086	33500	2695			14441														
		STD	0075	-0079	3364	2706	0010022	0094	14450														
		OBS	0075	-0079	33640	2706			14450														
		STD	0100	-0053	3374	2714	0009352	0119	14468														
		OBS	0100	-0053	33740	2714			14468														
		STD	0125	-0003	3385	2720	0008738	0141	14496														
		OBS	0125	-0003	33850	2720			14496														
		STD	0150	0040	3390	2722	0008583	0163	14521														
		OBS	0150	0040	33900	2722			14521														
		STD	0200	0014	3409	2739	0006991	0202	14520														
		OBS	0200	0014	34090	2739			14520														
		STD	0250	0038	3415	2742	0006669	0236	14540														
		OBS	0250	0038	34150	2742			14540														
		STD	0300	0029	3421	2747	0006159	0268	14545														
		OBS	0300	0029	34210	2747			14545														
		STD	0400	-0017	3427	2755	0005427	0326	14541														
		OBS	0400	-0017	34270	2755			14541														

REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC				
CTRY	ID.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	DIR.	HGT	PER	SEA	THE	CODES	STATION	
CODE	NO.											NO.	NUMBER	BOTTOM	OF					CODE	TYPE	NUMBER	
318160	WE		75540N	070240W		260	50	10	01	077	1969	WE2	075	0530						01	7 5	0075	
						WATER		WIND				AIR TEMP. °C											
						COLOR	TRANS.	DIR.	SPEED	BARO-	DRY		WET	VIS.	NO.								
						CODE	(m)		OR	METER	BULB		BULB	CODE	OBS.								
						DT	S	19	S05	179	-011	-022	9	14									
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T																	
TIME	NO.	TYPE																					
HR 1/10																							
		STD	0000	-0090	3297	2653	0015151	0000	14423														
077		OBS	0000	-0090	32970	2653			14423														
		STD	0010	-0089	3315	2667	0013769	0014	14428														
		OBS	0010	-0089	33150	2667			14428														
		STD	0020	-0110	3345	2692	0011397	0027	14424														
		OBS	0020	-0110	33450	2692			14424														
		STD	0030	-0108	3349	2695	0011091	0038	14427														
		OBS	0030	-0108	33490	2695			14427														
		STD	0050	-0108	3357	2702	0010467	0060	14431														
		OBS	0050	-0108	33570	2702			14431														
		STD	0075	-0039	3369	2709	0009802	0085	14469														
		OBS	0075	-0039	33690	2709			14469														
		STD	0100	0003	3383	2718	0008924	0109	14495														
		OBS	0100	0003	33830	2718			14495														
		STD	0125	0043	3387	2719	0008829	0131	14518														
		OBS	0125	0043	33870	2719			14518														
		STD	0150	0050	3394	2725	0008336	0152	14526														
		OBS	0150	0050	33940	2725			14526														
		STD	0200	0130	3415	2736	0007260	0191	14573														
		OBS	0200	0130	34150	2736			14573														
		STD	0250	0052	3420	2745	0006375	0225	14547														
		OBS	0250	0052	34200	2745			14547														
		STD	0300	0054	3424	2748	0006086	0256	14557														
		OBS	0300	0054	34240	2748			14557														
		STD	0400	0006	3430	2756	0005334	0314	14552														
		OBS	0400	0006	34300	2756			14552														
		STD	0500	-0007	3433	2759	0005018	0365	14563														
		OBS	0500	-0007	34330	2759			14563														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FOOT	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		AMT
318160	WE		75460N	070420W	260	50	10	01	098	1969	WE2	076		0450					70	7	7	0076	
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB											
						OT	S	22	511	169	-019	-028	9	13									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
098		STD	0000	-0078	3300	2655	0014961		0000	14429													
		OBS	0000	-0078	33000	2655				14429													
		STD	0010	-0085	3305	2659	0014549		0015	14428													
		OBS	0010	-0085	33050	2659				14428													
		STD	0020	-0080	3330	2679	0012645		0028	14436													
		OBS	0020	-0080	33300	2679				14436													
		STD	0030	-0096	3352	2697	0010901		0040	14433													
		OBS	0030	-0096	33520	2697				14433													
		STD	0050	-0100	3363	2706	0010035		0061	14436													
		OBS	0050	-0100	33630	2706				14436													
		STD	0075	-0070	3374	2714	0009292		0085	14456													
		OBS	0075	-0070	33740	2714				14456													
		STD	0100	0002	3386	2721	0008691		0108	14495													
		OBS	0100	0002	33860	2721				14495													
		STD	0125	0032	3392	2724	0008388		0129	14513													
		OBS	0125	0032	33920	2724				14513													
		STD	0150	0045	3405	2734	0007472		0149	14525													
	OBS	0150	0045	34050	2734				14525														
	STD	0200	0036	3410	2738	0007039		0185	14530														
	OBS	0200	0036	34100	2738				14530														
	STD	0250	-0030	3414	2745	0006371		0219	14509														
	OBS	0250	-0030	34140	2745				14509														
	STD	0300	-0027	3422	2751	0005769		0249	14519														
	OBS	0300	-0027	34220	2751				14519														
	STD	0400	-0017	3431	2758	0005124		0303	14542														
	OBS	0400	-0017	34310	2758				14542														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FOOT	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		AMT
318160	WE		75405N	071070W	260	51	10	01	102	1969	WE2	077		0480					70	7	7	0077	
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB											
						OT	S	22	511	169	-019	-028	9	13									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
102		STD	0000	-0096	3284	2642	0016129		0000	14418													
		OBS	0000	-0096	32840	2642				14418													
		STD	0010	-0100	3290	2647	0015651		0016	14419													
		OBS	0010	-0100	32900	2647				14419													
		STD	0020	-0085	3320	2671	0013394		0030	14432													
		OBS	0020	-0085	33200	2671				14432													
		STD	0030	-0129	3350	2697	0010950		0043	14417													
		OBS	0030	-0129	33500	2697				14417													
		STD	0050	-0126	3357	2702	0010411		0064	14423													
		OBS	0050	-0126	33570	2702				14423													
		STD	0075	-0112	3365	2708	0009829		0089	14435													
		OBS	0075	-0112	33650	2708				14435													
		STD	0100	-0121	3374	2716	0009097		0113	14436													
		OBS	0100	-0121	33740	2716				14436													
		STD	0125	-0018	3388	2723	0008436		0135	14490													
		OBS	0125	-0018	33880	2723				14490													
		STD	0150	0064	3400	2729	0007963		0155	14533													
	OBS	0150	0064	34000	2729				14533														
	STD	0200	0109	3412	2735	0007343		0194	14563														
	OBS	0200	0109	34120	2735				14563														
	STD	0250	0144	3430	2747	0006238		0228	14590														
	OBS	0250	0144	34300	2747				14590														
	STD	0300	0080	3430	2752	0005800		0258	14569														
	OBS	0300	0080	34300	2752				14569														
	STD	0400	0025	3433	2757	0005223		0313	14561														
	OBS	0400	0025	34330	2757				14561														

TABLE III.—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 S'PL'S	WAVE OBSERVATIONS				WEA- THER 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		
318160	WE	75320N	071360W	260	51	10	01	129	1969	WE2	078	0520							02	7	7	0078		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	S	22	S12	159	-008	-019	9	14										
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
129		STD	0000	-0090	3275	2635	0016838		0000	14420														
		OBS	0000	-0090	32750	2635				14420														
		STD	0010	-0093	3285	2643	0016056		0016	14422														
		OBS	0010	-0093	32850	2643				14422														
		STD	0020	-0118	3337	2686	0011986		0030	14419														
		OBS	0020	-0118	33370	2686				14419														
		STD	0030	-0125	3345	2693	0011345		0042	14418														
		OBS	0030	-0125	33450	2693				14418														
		STD	0050	-0144	3355	2701	0010512		0064	14414														
		OBS	0050	-0144	33550	2701				14414														
		STD	0075	-0132	3363	2707	0009918		0090	14425														
		OBS	0075	-0132	33630	2707				14425														
		STD	0100	-0135	3370	2713	0009358		0114	14429														
		OBS	0100	-0135	33700	2713				14429														
		STD	0125	-0060	3384	2722	0008551		0136	14470														
		OBS	0125	-0060	33840	2722				14470														
		STD	0150	0036	3395	2726	0008180		0157	14520														
		OBS	0150	0036	33950	2726				14520														
		STD	0200	0110	3414	2737	0007198		0195	14564														
		OBS	0200	0110	34140	2737				14564														
		STD	0250	0146	3425	2743	0006631		0230	14590														
		OBS	0250	0146	34250	2743				14590														
	STD	0300	0170	3437	2751	0005922		0261	14610															
	OBS	0300	0170	34370	2751				14610															
	STD	0400	0230	3452	2758	0005334		0318	14655															
	OBS	0400	0230	34520	2758				14655															
	STD	0500	0140	3452	2765	0004620		0367	14632															
	OBS	0500	0140	34520	2765				14632															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER 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		
318160	WE	75240N	070520W	260	50	10	01	144	1969	WE2	079	0540							02	7	7	0079		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	S	22	S06	152	-011	-017	9	14										
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
144		STD	0000	-0078	3277	2636	0016723		0000	14426														
		OBS	0000	-0078	32770	2636				14426														
		STD	0010	-0085	3278	2637	0016618		0017	14424														
		OBS	0010	-0085	32780	2637				14424														
		STD	0020	-0126	3332	2682	0012346		0031	14414														
		OBS	0020	-0126	33320	2682				14414														
		STD	0030	-0130	3345	2693	0011331		0043	14416														
		OBS	0030	-0130	33450	2693				14416														
		STD	0050	-0127	3352	2698	0010791		0065	14422														
		OBS	0050	-0127	33520	2698				14422														
		STD	0075	-0112	3360	2704	0010211		0091	14434														
		OBS	0075	-0112	33600	2704				14434														
		STD	0100	-0146	3364	2709	0009785		0116	14423														
		OBS	0100	-0146	33640	2709				14423														
		STD	0125	-0105	3378	2719	0008833		0140	14448														
		OBS	0125	-0105	33780	2719				14448														
		STD	0150	-0026	3386	2722	0008544		0161	14490														
		OBS	0150	-0026	33860	2722				14490														
		STD	0200	0067	3405	2732	0007603		0202	14543														
		OBS	0200	0067	34050	2732				14543														
		STD	0250	0191	3429	2743	0006671		0237	14610														
		OBS	0250	0191	34290	2743				14610														
	STD	0300	0208	3439	2750	0006076		0269	14627															
	OBS	0300	0208	34390	2750				14627															
	STD	0400	0232	3450	2757	0005502		0327	14656															
	OBS	0400	0232	34500	2757				14656															
	STD	0500	0191	3451	2761	0005117		0380	14655															
	OBS	0500	0191	34510	2761				14655															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 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		CRUISE NO.	STATION NUMBER	NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
318160	WE	75330N	070390W			260	50	10	01	163	1969	WE2	080	0530						02	6	8		0080
						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												
						DT	S	22	S06	152	-011	-017	7	14										
MESSNGR TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD					
163		STD	0000	-0086	3282	2640	0016314		0000		14423													
		OBS	0000	-0086	32820	2640					14423													
		STD	0010	-0090	3295	2651	0015299		0016		14424													
		OBS	0010	-0090	32950	2651					14424													
		STD	0020	-0080	3325	2675	0013028		0030		14435													
		OBS	0020	-0080	33250	2675					14435													
		STD	0030	-0092	3340	2688	0011833		0042		14433													
		OBS	0030	-0092	33400	2688					14433													
		STD	0050	-0107	3348	2695	0011160		0065		14431													
		OBS	0050	-0107	33480	2695					14431													
		STD	0075	-0110	3358	2703	0010371		0092		14435													
		OBS	0075	-0110	33580	2703					14435													
		STD	0100	-0046	3372	2712	0009535		0117		14471													
		OBS	0100	-0046	33720	2712					14471													
		STD	0125	0015	3386	2720	0008754		0140		14505													
		OBS	0125	0015	33860	2720					14505													
		STD	0150	0090	3395	2723	0008502		0162		14544													
		OBS	0150	0090	33950	2723					14544													
		STD	0200	0153	3414	2734	0007499		0202		14583													
		OBS	0200	0153	34140	2734					14583													
		STD	0250	0155	3425	2743	0006697		0237		14594													
		OBS	0250	0155	34250	2743					14594													
		STD	0300	0182	3435	2749	0006167		0269		14615													
		OBS	0300	0182	34350	2749					14615													
		STD	0400	0220	3449	2757	0005472		0327		14651													
		OBS	0400	0220	34490	2757					14651													
		STD	0500	0163	3450	2762	0004957		0380		14642													
		OBS	0500	0163	34500	2762					14642													
REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 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		CRUISE NO.	STATION NUMBER	NOCC STATION NUMBER	
CTRY CODE	IO. NO.				10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT				
318160	WE	75410N	070040W		260	50	10	01	175	1969	WE2	081	0530						02	6	8		0081	
						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												
						DT	S	22	S06	151	-011	-017	7	14										
MESSNGR TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD					
175		STD	0000	-0089	3272	2633	0017071		0000		14420													
		OBS	0000	-0089	32720	2633					14420													
		STD	0010	-0098	3275	2635	0016807		0017		14418													
		OBS	0010	-0098	32750	2635					14418													
		STD	0020	-0080	3307	2660	0014407		0033		14432													
		OBS	0020	-0080	33070	2660					14432													
		STD	0030	-0114	3335	2684	0012145		0046		14422													
		OBS	0030	-0114	33350	2684					14422													
		STD	0050	-0133	3346	2694	0011233		0069		14418													
		OBS	0050	-0133	33460	2694					14418													
		STD	0075	-0122	3360	2705	0010179		0096		14429													
		OBS	0075	-0122	33600	2705					14429													
		STD	0100	-0050	3375	2714	0009289		0120		14469													
		OBS	0100	-0050	33750	2714					14469													
		STD	0125	0013	3385	2719	0008819		0143		14504													
		OBS	0125	0013	33850	2719					14504													
		STD	0150	0080	3398	2726	0008212		0164		14540													
		OBS	0150	0080	33980	2726					14540													
		STD	0200	0130	3413	2735	0007411		0203		14573													
		OBS	0200	0130	34130	2735					14573													
		STD	0250	0170	3427	2743	0006659		0238		14601													
		OBS	0250	0170	34270	2743					14601													
		STD	0300	0183	3434	2748	0006250		0271		14616													
		OBS	0300	0183	34340	2748					14616													
		STD	0400	0184	3449	2760	0005168		0328		14635													
		OBS	0400	0184	34490	2760					14635													
		STD	0500	0130	3449	2764	0004767		0377		14627													
		OBS	0500	0130	34490	2764					14627													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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
318160	WE	75480N	069430W	259	59	10	01	187	1969	WE2	082		0450						02	6	8	0082	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	20	S08	150	-017	-025	7	13									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
187		STD	0000	-0075	3290	2647			0015737	0000	14429												
		OBS	0000	-0075	32900	2647					14429												
		STD	0010	-0082	3295	2651			0015325	0016	14428												
		OBS	0010	-0082	32950	2651					14428												
		STD	0020	-0067	3320	2670			0013458	0030	14440												
		OBS	0020	-0067	33200	2670					14440												
		STD	0030	-0066	3350	2695			0011161	0042	14447												
		OBS	0030	-0066	33500	2695					14447												
		STD	0050	-0052	3361	2703			0010367	0064	14458												
		OBS	0050	-0052	33610	2703					14458												
		STD	0075	-0021	3370	2709			0009806	0089	14478												
		OBS	0075	-0021	33700	2709					14478												
		STD	0100	-0048	3375	2714			0009297	0113	14470												
		OBS	0100	-0048	33750	2714					14470												
		STD	0125	0040	3392	2724			0008432	0135	14517												
		OBS	0125	0040	33920	2724					14517												
		STD	0150	0085	3399	2727			0008167	0156	14542												
		OBS	0150	0085	33990	2727					14542												
		STD	0200	0142	3419	2739			0007042	0194	14579												
		OBS	0200	0142	34190	2739					14579												
		STD	0250	0169	3428	2744			0006576	0228	14600												
		OBS	0250	0169	34280	2744					14600												
		STD	0300	0200	3440	2751			0005935	0259	14624												
		OBS	0300	0200	34400	2751					14624												
		STD	0400	0180	3449	2760			0005135	0314	14633												
		OBS	0400	0180	34490	2760					14633												

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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
318160	WE	75500N	068500W	259	58	10	01	205	1969	WE2	083		0310						02	6	8	0083	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	20	S08	150	-015	-025	7	12									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
205		STD	0000	-0055	3285	2642			0016191	0000	14438												
		OBS	0000	-0055	32850	2642					14438												
		STD	0010	-0058	3282	2639			0016404	0016	14438												
		OBS	0010	-0058	32820	2639					14438												
		STD	0020	-0058	3298	2652			0015175	0032	14441												
		OBS	0020	-0058	32980	2652					14441												
		STD	0030	-0036	3336	2682			0012350	0046	14459												
		OBS	0030	-0036	33360	2682					14459												
		STD	0050	-0029	3347	2691			0011533	0070	14467												
		OBS	0050	-0029	33470	2691					14467												
		STD	0075	-0018	3358	2699			0010735	0098	14477												
		OBS	0075	-0018	33580	2699					14477												
		STD	0100	-0010	3369	2708			0009928	0123	14487												
		OBS	0100	-0010	33690	2708					14487												
		STD	0125	0022	3380	2715			0009247	0147	14507												
		OBS	0125	0022	33800	2715					14507												
		STD	0150	0060	3390	2721			0008698	0170	14530												
		OBS	0150	0060	33900	2721					14530												
		STD	0200	0134	3410	2732			0007666	0211	14574												
		OBS	0200	0134	34100	2732					14574												
		STD	0250	0168	3422	2739			0007021	0247	14599												
		OBS	0250	0168	34220	2739					14599												
		STD	0300	0180	3426	2742			0006830	0282	14613												
		OBS	0300	0180	34260	2742					14613												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				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
318160		WE	75328N	069285W	259	59	10	02	083	1969	WE2	085	0470					72	7	8	0085
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE		TRANS. (m)		OIL		SPEED OF FORCE		DRY BULB		WET BULB					
						OT		S		12		S18		134		-011		-021		8 13	
MESSAGE TIME & NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND MALT-SIB*		Σ Δ D DYN, M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	
		STD	0000	-0090	3290	2647		0015688		0000		14422									
083		OBS	0000	-0090	32900	2647						14422									
		STD	0010	-0093	3293	2650		0015442		0016		14423									
		OBS	0010	-0093	32930	2650						14423									
		STD	0020	-0087	3325	2675		0013004		0030		14432									
		OBS	0020	-0087	33250	2675						14432									
		STD	0030	-0090	3339	2687		0011917		0042		14434									
		OBS	0030	-0090	33390	2687						14434									
		STD	0050	-0115	3350	2696		0010981		0065		14427									
		OBS	0050	-0115	33500	2696						14427									
		STD	0075	-0100	3362	2706		0010099		0091		14440									
		OBS	0075	-0100	33620	2706						14440									
		STD	0100	-0038	3374	2713		0009417		0116		14475									
		OBS	0100	-0038	33740	2713						14475									
		STD	0125	0037	3386	2719		0008872		0139		14515									
		OBS	0125	0037	33860	2719						14515									
		STD	0150	0065	3394	2724		0008424		0160		14533									
		OBS	0150	0065	33940	2724						14533									
		STD	0200	0144	3410	2731		0007737		0201		14579									
		OBS	0200	0144	34100	2731						14579									
		STD	0250	0172	3427	2743		0006675		0237		14602									
		OBS	0250	0172	34270	2743						14602									
		STD	0300	0186	3436	2749		0006124		0269		14617									
		OBS	0300	0186	34360	2749						14617									
		STD	0400	0230	3449	2756		0005559		0327		14655									
		OBS	0400	0230	34490	2756						14655									

TABLE III.--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 S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
318160	WE	75250N	069480W		259	59	10	02	095	1969	WE2	086	0540					72	7	8	0086
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	S	15	S17	125	-001	-012	8	14								
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C			
095		STD	0000	-0090	3281	2640	0016378	0000	14421												
		OBS	0000	-0090	32810	2640			14421												
		STD	0010	-0090	3300	2655	0014915	0016	14425												
		OBS	0010	-0090	33000	2655			14425												
		STD	0020	-0090	3329	2679	0012688	0029	14431												
		OBS	0020	-0090	33290	2679			14431												
		STD	0030	-0091	3346	2692	0011377	0041	14434												
		OBS	0030	-0091	33460	2692			14434												
		STD	0050	-0090	3353	2698	0010835	0064	14439												
		OBS	0050	-0090	33530	2698			14439												
		STD	0075	-0146	3363	2708	0009877	0090	14418												
		OBS	0075	-0146	33630	2708			14418												
		STD	0100	-0129	3366	2710	0009683	0114	14431												
		OBS	0100	-0129	33660	2710			14431												
		STD	0125	-0090	3382	2721	0008583	0137	14456												
		OBS	0125	-0090	33820	2721			14456												
		STD	0150	0006	3390	2724	0008399	0158	14505												
		OBS	0150	0006	33900	2724			14505												
		STD	0200	0151	3419	2738	0007107	0197	14583												
		OBS	0200	0151	34190	2738			14583												
		STD	0250	0201	3434	2746	0006374	0231	14615												
		OBS	0250	0201	34340	2746			14615												
		STD	0300	0228	3442	2751	0006018	0262	14637												
		OBS	0300	0228	34420	2751			14637												
		STD	0400	0231	3450	2757	0005493	0319	14656												
		OBS	0400	0231	34500	2757			14656												
		STD	0500	0202	3453	2762	0005062	0372	14660												
		OBS	0500	0202	34530	2762			14660												

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
318160	WE	75170N	068240W		259	58	10	02	116	1969	WE2	087	0470					72	7	8	0087
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	S	14	S05	130	-011	-011	5	13								
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C			
116		STD	0000	-0100	3256	2620	0018265	0000	14413												
		OBS	0000	-0100	32560	2620			14413												
		STD	0010	-0095	3268	2629	0017353	0018	14418												
		OBS	0010	-0095	32680	2629			14418												
		STD	0020	-0092	3284	2642	0016130	0035	14424												
		OBS	0020	-0092	32840	2642			14424												
		STD	0030	-0092	3322	2673	0013212	0049	14431												
		OBS	0030	-0092	33220	2673			14431												
		STD	0050	-0102	3340	2688	0011789	0074	14432												
		OBS	0050	-0102	33400	2688			14432												
		STD	0075	-0127	3352	2698	0010776	0102	14426												
		OBS	0075	-0127	33520	2698			14426												
		STD	0100	-0109	3360	2704	0010208	0129	14440												
		OBS	0100	-0109	33600	2704			14440												
		STD	0125	-0023	3375	2713	0009403	0153	14486												
		OBS	0125	-0023	33750	2713			14486												
		STD	0150	0016	3384	2718	0008908	0176	14509												
		OBS	0150	0016	33840	2718			14509												
		STD	0200	0113	3405	2730	0007900	0218	14564												
		OBS	0200	0113	34050	2730			14564												
		STD	0250	0174	3420	2737	0007218	0256	14602												
		OBS	0250	0174	34200	2737			14602												
		STD	0300	0199	3428	2742	0006831	0291	14622												
		OBS	0300	0199	34280	2742			14622												
		STD	0400	0203	3449	2758	0005326	0352	14643												
		OBS	0400	0203	34490	2758			14643												

TABLE III.—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'AMPL'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	TYPE		AMT
318160		WE	75260N	068110W	259	58	10	02	148	1969	WE2	088	0300						01	7	8	0088	
						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										
						DT	S	10	S08	128	-033	-022	9	11									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C				
148		STD	0000	-0090	3270	2631	0017221		0000		14419												
		OBS	0000	-0090	32700	2631					14419												
		STD	0010	-0095	3270	2631	0017200		0017		14419												
		OBS	0010	-0095	32700	2631					14419												
		STD	0020	-0088	3295	2651	0015300		0033		14427												
		OBS	0020	-0088	32950	2651					14427												
		STD	0030	-0089	3325	2675	0012992		0048		14432												
		OBS	0030	-0089	33250	2675					14432												
		STD	0050	-0122	3352	2698	0010806		0071		14424												
		OBS	0050	-0122	33520	2698					14424												
		STD	0075	-0080	3360	2703	0010324		0098		14449												
		OBS	0075	-0080	33600	2703					14449												
		STD	0100	-0098	3370	2712	0009482		0123		14446												
		OBS	0100	-0098	33700	2712					14446												
		STD	0125	0010	3386	2720	0008728		0145		14502												
		OBS	0125	0010	33860	2720					14502												
	STD	0150	0065	3393	2723	0008500		0167		14533													
	OBS	0150	0065	33930	2723					14533													
	STD	0200	0140	3413	2734	0007482		0207		14577													
	OBS	0200	0140	34130	2734					14577													
	STD	0250	0190	3429	2743	0006664		0242		14610													
	OBS	0250	0190	34290	2743					14610													

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'AMPL'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	TYPE		AMT
318160		WE	75356N	067580W	259	57	10	02	159	1969	WE2	089	0290						01	7	8	0089	
						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										
						DT	S	10	S08	128	-033	-022	9	11									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C				
159		STD	0000	-0077	3280	2639	0016497		0000		14427												
		OBS	0000	-0077	32800	2639					14427												
		STD	0010	-0079	3285	2643	0016101		0016		14428												
		OBS	0010	-0079	32850	2643					14428												
		STD	0020	-0082	3287	2644	0015933		0032		14429												
		OBS	0020	-0082	32870	2644					14429												
		STD	0030	-0065	3335	2683	0012312		0046		14445												
		OBS	0030	-0065	33350	2683					14445												
		STD	0050	-0105	3350	2696	0011013		0070		14432												
		OBS	0050	-0105	33500	2696					14432												
		STD	0075	-0080	3360	2703	0010324		0096		14449												
		OBS	0075	-0080	33600	2703					14449												
		STD	0100	-0030	3370	2709	0009758		0122		14478												
		OBS	0100	-0030	33700	2709					14478												
		STD	0125	0030	3382	2716	0009138		0145		14511												
		OBS	0125	0030	33820	2716					14511												
	STD	0150	0084	3394	2723	0008540		0167		14541													
	OBS	0150	0084	33940	2723					14541													
	STD	0200	0152	3416	2736	0007341		0207		14583													
	OBS	0200	0152	34160	2736					14583													
	STD	0250	0187	3428	2743	0006715		0242		14608													
	OBS	0250	0187	34280	2743					14608													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	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
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	TYPE	
318160		WE	75452N	067443W		259	57	10	02	169	1969	WE2	090		0220					01	7 7	0090
						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										
						DT	S	10	S08	128	-017	-022	9	10								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	ST C					
169		STD	0000	-0038	3281	2638	0016561	0000	14445													
		OBS	0000	-0038	32810	2638			14445													
		STD	0010	-0044	3282	2639	0016457	0017	14444													
		OBS	0010	-0044	32820	2639			14444													
		STD	0020	-0046	3283	2640	0016368	0033	14445													
		OBS	0020	-0046	32830	2640			14445													
		STD	0030	-0035	3300	2653	0015107	0049	14454													
		OBS	0030	-0035	33000	2653			14454													
		STD	0050	-0028	3321	2670	0013523	0077	14463													
		OBS	0050	-0028	33210	2670			14463													
		STD	0075	-0030	3350	2693	0011292	0108	14471													
		OBS	0075	-0030	33500	2693			14471													
		STD	0100	-0012	3362	2702	0010452	0135	14485													
		OBS	0100	-0012	33620	2702			14485													
		STD	0125	0031	3374	2710	0009752	0161	14510													
		OBS	0125	0031	33740	2710			14510													
	STD	0150	0050	3383	2716	0009172	0184	14524														
	OBS	0150	0050	33830	2716			14524														
	STD	0200	0102	3398	2725	0008357	0228	14558														
	OBS	0200	0102	33980	2725			14558														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	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
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	TYPE	
318160		WE	75490N	072530W		260	52	09	25	089	1969	WE2	00A		0360					68	6 8	0091
						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										
						DT	S	14	S08	051	000	-002	9	12								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	ST C					
089		STD	0000	-0020	3260	2620	0018239	0000	14450													
		OBS	0000	-0020	32600	2620			14450													
		STD	0010	-0030	3262	2622	0018042	0018	14448													
		OBS	0010	-0030	32620	2622			14448													
		STD	0020	-0040	3310	2661	0014326	0034	14451													
		OBS	0020	-0040	33100	2661			14451													
		STD	0030	-0075	3335	2683	0012276	0048	14440													
		OBS	0030	-0075	33350	2683			14440													
		STD	0050	-0105	3354	2699	0010707	0071	14432													
		OBS	0050	-0105	33540	2699			14432													
		STD	0075	-0110	3365	2708	0009835	0096	14436													
		OBS	0075	-0110	33650	2708			14436													
		STD	0100	-0040	3378	2716	0009103	0120	14474													
		OBS	0100	-0040	33780	2716			14474													
		STD	0125	-0010	3390	2724	0008322	0142	14494													
		OBS	0125	-0010	33900	2724			14494													
	STD	0150	-0056	3392	2728	0007950	0162	14477														
	OBS	0150	-0056	33920	2728			14477														
	STD	0200	-0028	3408	2740	0006848	0199	14500														
	OBS	0200	-0028	34080	2740			14500														
	STD	0250	-0018	3418	2747	0006129	0232	14515														
	OBS	0250	-0018	34180	2747			14515														
	STD	0300	-0010	3427	2754	0005480	0261	14528														
	OBS	0300	-0010	34270	2754			14528														

TABLE III.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	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
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		76000N	073300W		260	63	09	25	102	1969	WE2	00B		0340					03	5	8	0092
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		DT	S	09	S15	045			-008	-011	9	12											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
102		STD	0000	-0068	3270	2630	0017294		0000	14430													
		OBS	0000	-0068	32700	2630				14430													
		STD	0010	-0070	3270	2630	0017281		0017	14430													
		OBS	0010	-0070	32700	2630				14430													
		STD	0020	-0073	3270	2630	0017265		0035	14430													
		OBS	0020	-0073	32700	2630				14430													
		STD	0030	-0080	3310	2663	0014172		0050	14434													
		OBS	0030	-0080	33100	2663				14434													
		STD	0050	-0116	3332	2682	0012357		0077	14424													
		OBS	0050	-0116	33320	2682				14424													
		STD	0075	-0111	3352	2698	0010627		0106	14433													
		OBS	0075	-0111	33520	2698				14433													
		STD	0100	-0100	3363	2706	0010010		0132	14444													
		OBS	0100	-0100	33630	2706				14444													
		STD	0125	-0084	3373	2714	0009294		0156	14457													
		OBS	0125	-0084	33730	2714				14457													
	STD	0150	-0075	3380	2719	0008785		0179	14466														
	OBS	0150	-0075	33800	2719				14466														
	STD	0200	0037	3407	2736	0007272		0219	14530														
	OBS	0200	0037	34070	2736				14530														
	STD	0250	-0015	3416	2746	0006296		0253	14516														
	OBS	0250	-0015	34160	2746				14516														
	STD	0300	0020	3423	2750	0005954		0283	14541														
	OBS	0300	0020	34230	2750				14541														

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		76075N	073150W		260	63	09	25	117	1969	WE2	00C		0340					03	5	8	0093
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		DT	S	09	S12	045			-008	-011	9	12											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
117		STD	0000	-0090	3270	2631	0017221		0000	14419													
		OBS	0000	-0090	32700	2631				14419													
		STD	0010	-0094	3272	2633	0017050		0017	14419													
		OBS	0010	-0094	32720	2633				14419													
		STD	0020	-0097	3273	2634	0016957		0034	14420													
		OBS	0020	-0097	32730	2634				14420													
		STD	0030	-0082	3310	2663	0014165		0050	14434													
		OBS	0030	-0082	33100	2663				14434													
		STD	0050	-0096	3336	2684	0012116		0076	14434													
		OBS	0050	-0096	33360	2684				14434													
		STD	0075	-0120	3352	2698	0010798		0105	14429													
		OBS	0075	-0120	33520	2698				14429													
		STD	0100	-0090	3370	2712	0009511		0130	14450													
		OBS	0100	-0090	33700	2712				14450													
		STD	0125	-0073	3380	2719	0008803		0153	14463													
		OBS	0125	-0073	33800	2719				14463													
	STD	0150	-0022	3390	2725	0008259		0174	14492														
	OBS	0150	-0022	33900	2725				14492														
	STD	0200	-0060	3412	2744	0006392		0211	14486														
	OBS	0200	-0060	34120	2744				14486														
	STD	0250	-0048	3420	2750	0005826		0241	14501														
	OBS	0250	-0048	34200	2750				14501														
	STD	0300	-0015	3426	2754	0005529		0270	14526														
	OBS	0300	-0015	34260	2754				14526														

TABLE III.—Continued

REFERENCE	SHIP ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NDDC MOORE	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
							10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318160		WE	76165N	072390W		260	62	09	25	131	1969	WE2 000	0440					03	5	8	0094	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB										
						01	5	12	S25	055	-008	-011						9	13			
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	ND ₂ -N μg - at/l	ND ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CLO					
131		STD	0000	-0080	3275	2635	0016870	0000	14425													
		OBS	0000	-0080	32750	2635			14425													
		STD	0010	-0080	3276	2635	0016788	0017	14426													
		OBS	0010	-0080	32760	2635			14426													
		STD	0020	-0083	3277	2636	0016696	0034	14427													
		OBS	0020	-0083	32770	2636			14427													
		STD	0030	-0072	3321	2671	0013358	0049	14440													
		OBS	0030	-0072	33210	2671			14440													
		STD	0050	-0082	3342	2689	0011705	0074	14441													
		OBS	0050	-0082	33420	2689			14441													
		STD	0075	-0096	3356	2701	0010572	0102	14441													
		OBS	0075	-0096	33560	2701			14441													
		STD	0100	-0079	3377	2717	0009018	0126	14456													
		OBS	0100	-0079	33770	2717			14456													
		STD	0125	-0046	3384	2721	0008612	0148	14476													
		OBS	0125	-0046	33840	2721			14476													
		STD	0150	-0013	3394	2728	0007998	0169	14497													
		OBS	0150	-0013	33940	2728			14497													
		STD	0200	-0024	3405	2737	0007096	0207	14502													
		OBS	0200	-0024	34050	2737			14502													
		STD	0250	-0038	3417	2748	0006103	0240	14505													
		OBS	0250	-0038	34170	2748			14505													
		STD	0300	-0030	3423	2752	0005677	0269	14518													
		OBS	0300	-0030	34230	2752			14518													
		STD	0400	-0032	3431	2759	0005040	0323	14535													
		OBS	0400	-0032	34310	2759			14535													

NDDC-3167/29 (9-66)

532-AA

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