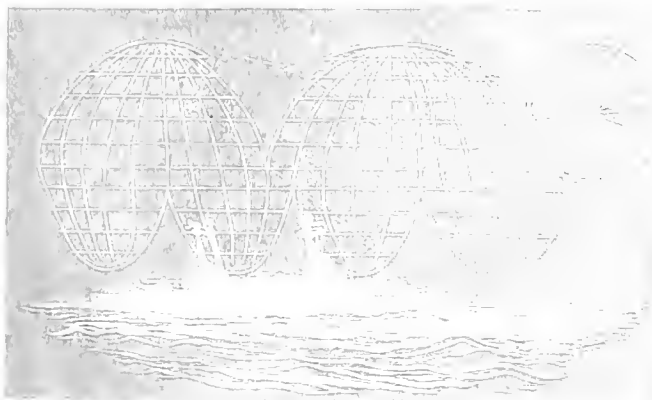


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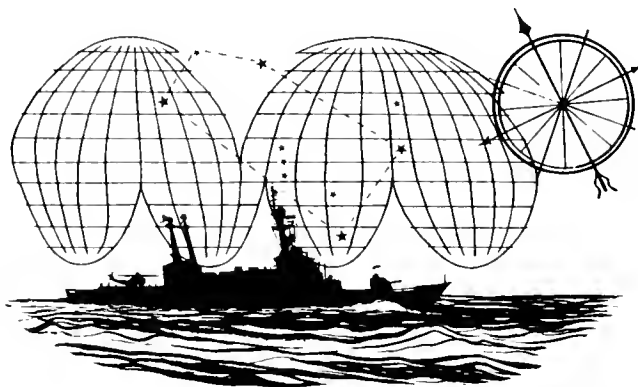
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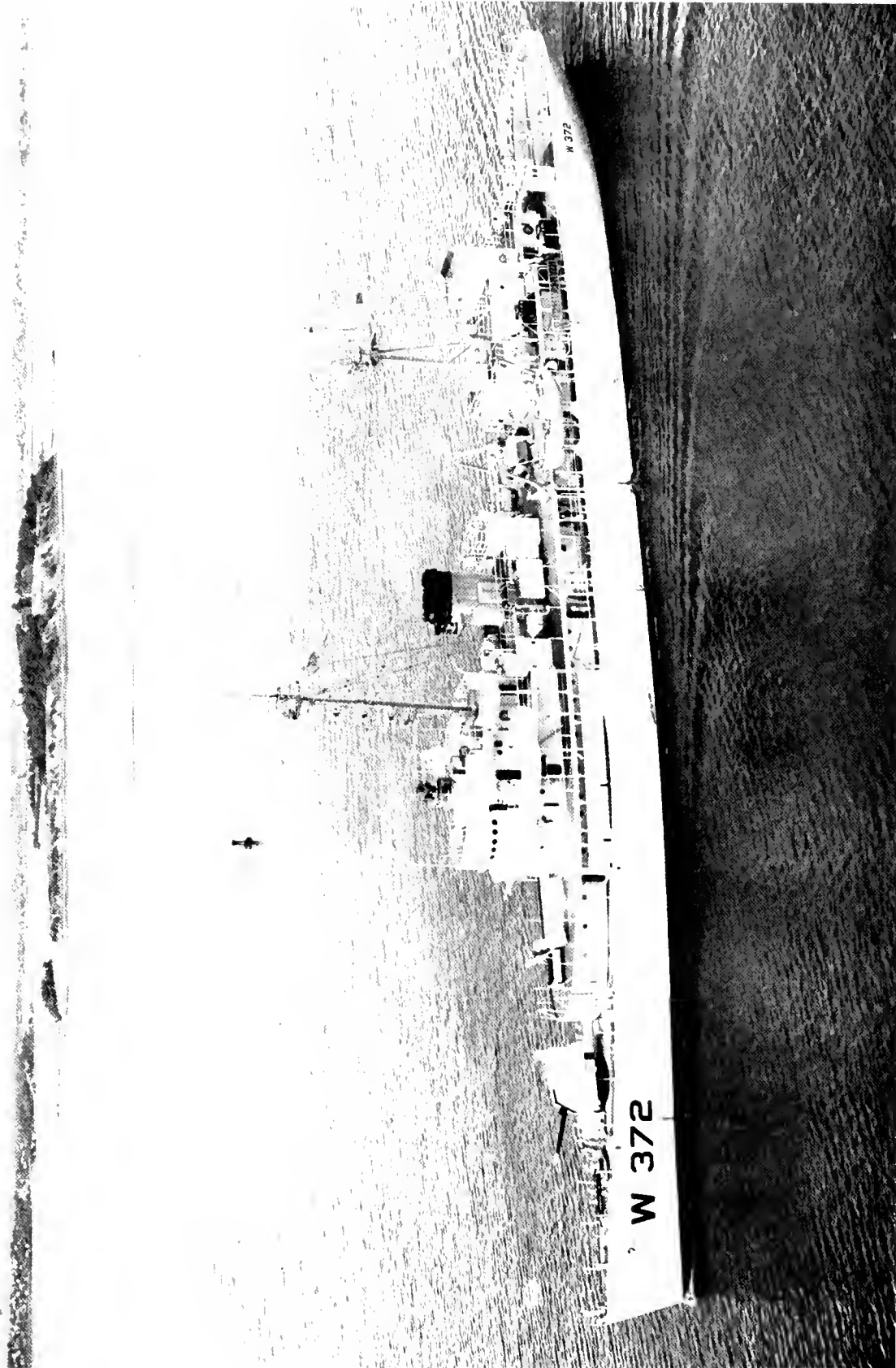
OCEANOGRAPHIC OBSERVATIONS
NORTH ATLANTIC OCEAN STATION BRAVO
56° 30' N., 51° 00' W.

October 1966-October 1967

By Joseph L. Shuhy



WASHINGTON, D.C. ₤ JULY 1969



Frontispiece: USCGC HUMBOLDT, a 311 Ft. High Endurance Cutter; Homeport: Portland, Maine.

Abstract

This report contains the observed and interpolated temperature and salinity data, plus the computed σ_t , geopotential anomalies and sound velocities for 125 oceanographic stations taken by seven U.S. Coast Guard Cutters occupying Ocean Station BRAVO (centered at $56^{\circ}30' N.$, $51^{\circ}00' W.$) during October 1966–October 1967. They were the USCGC DUANE, 8–28 October 1966; USCGC McCULLOCH, 24 November–12 December 1966; USCGC HUMBOLDT, 7–31 January 1967; USCGC BIBB, 24 February–14 March 1967; USCGC ESCANABA, 6–24 April 1967; USCGC SPENCER, 27 May–6 June 1967; USCGC SEBAGO, 29 June–21 July 1967; USCGC McCULLOCH, 14 August–5 September 1967; USCGC SPENCER, 29 September–23 October 1967. Casts of 14 levels were made to 1,500 meters when weather and operating conditions permitted. An attempt was made to extend sampling to near the bottom once on each patrol.

CONTENTS

	Page
Procedures	1
Discussion	2
Summary	4
Literature Cited	5
Illustrations	9
Tabulated Data	43

Illustrations

Figure

Frontispiece: USCGC HUMBOLDT (WHEC-372)	
1. Chart of All Ocean Stations of the World	9
2. Bathymetric Chart of Ocean Station BRAVO	10
3. Positions of USCGC DUANE Oceanographic Stations, 8-28 October 1966	11
4. Positions of USCGC McCULLOCH Oceanographic Stations, 24 November-12 December 1966	12
5. Positions of USCGC HUMBOLDT Oceanographic Stations, 7-31 January 1967	13
6. Positions of USCGC BIBB Oceanographic Stations, 24 February-14 March 1967	14
7. Positions of USCGC ESCANABA Oceanographic Stations, 6-24 April 1967	15
8. Positions of USCGC SPENCER Oceanographic Stations, 27 May-6 June 1967	16
9. Positions of USCGC SEBAGO Oceanographic Stations, 29 June-21 July 1967	17
10. Positions of USCGC McCULLOCH Oceanographic Stations, 14 August-5 September 1967	18
11. Positions of USCGC SPENCER Oceanographic Stations, 1-20 October 1967	19
12. Envelope of Temperature Versus Depth, USCGC DUANE, 8-28 October 1966	20
13. Envelope of Temperature Versus Depth, USCGC McCULLOCH, 24 November-12 December 1966	21
14. Envelope of Temperature Versus Depth, USCGC HUMBOLDT, 7-31 January 1967	22
15. Envelope of Temperature Versus Depth, USCGC BIBB, 24 February-14 March 1967	23
16. Envelope of Temperature Versus Depth, USCGC ESCANABA, 6-24 April 1967	24
17. Envelope of Temperature Versus Depth, USCGC SPENCER, 27 May-6 June 1967	25

Figure	Page
18. Envelope of Temperature Versus Depth, USCGC SEBAGO, 29 June–21 July 1967	26
19. Envelope of Temperature Versus Depth, USCGC McCULLOCH, 14 August–5 September 1967	27
20. Envelope of Temperature Versus Depth, USCGC SPENCER, 1–20 October 1967	28
21. Monthly Averages of Water Temperature Versus Time at Selected Depths, January 1964–October 1967	29
22. Envelope of Salinity Versus Depth, USCGC DUANE, 8–28 October 1966	30
23. Envelope of Salinity Versus Depth, USCGC McCULLOCH, 24 November–12 December 1966	31
24. Envelope of Salinity Versus Depth, USCGC HUMBOLDT, 7–31 January 1967	32
25. Envelope of Salinity Versus Depth, USCGC BIBB, 24 February–14 March 1967	33
26. Envelope of Salinity Versus Depth, USCGC ESCANABA, 6–24 April 1967	34
27. Envelope of Salinity Versus Depth, USCGC SPENCER, 27 May–6 June 1967	35
28. Envelope of Salinity Versus Depth, USCGC SEBAGO, 29 June–21 July 1967	36
29. Envelope of Salinity Versus Depth, USCGC McCULLOCH, 14 August–5 September 1967	37
30. Envelope of Salinity Versus Depth, USCGC SPENCER, 1–20 October 1967	38
31. Monthly Averages of Salinity Versus Time at Selected Depths, January 1964–October 1967	39
32. Monthly Averages of Water Temperature Versus Time by Depth, January 1964–October 1967	40
33. Monthly Averages of Salinity Versus Time by Depth, January 1964–October 1967	41

Tables

	Page
I. USCGC DUANE October 1966 Data	45
II. USCGC McCULLOCH November–December 1966 Data	56
III. USCGC HUMBOLDT January 1967 Data	62
IV. USCGC BIBB February–March 1967 Data	80
V. USCGC ESCANABA April 1967 Data	89
VI. USCGC SPENCER May–June 1967 Data	100
VII. USCGC SEBAGO June–July 1967 Data	109
VIII. USCGC McCULLOCH August–September 1967 Data	131
IX. USCGC SPENCER October 1967 Data	152

Introduction

Ocean Station BRAVO is located in the North Atlantic Ocean at latitude $56^{\circ}30'$ N. and longitude $51^{\circ}00'$ W. This station has been monitored since January 1964. The first report on the data collected at this ocean station covers the period of time January–April 1964, including 46 Oceanographic Stations. The results of this initial study are published in the Coast Guard Oceanographic Report No. CG 373–7. The second report, Coast Guard Oceanographic Report No. CG 373–9, covered the period August 1964–August 1965 during which time 73 oceanographic stations were taken at BRAVO. The Coast Guard Oceanographic Report No. CG 373–14 was the third in the series. This report covered the period October 1965–September 1966 during which time 68 stations were taken.

This is the fourth report of the series and covers the period October 1966–October 1967 during which time 125 oceanographic stations were occupied. Data from the previous reports are used to show the variations of temperature and salinity for the past four years.

Procedures

During the period October 1966–October 1967 U.S. Coast Guard cutters were instructed to take daily Nansen casts, weather and operating conditions permitting, while occupying Ocean Station BRAVO. These casts were made at 14 prescribed levels to 1500 meters. They were also instructed to take at least one deep cast as close to the bottom as practicable during each patrol. On shallow casts the prescribed sample depths were as follows: 0, 25, 50, 100, 150, 200, 300, 400, 500, 600, 800, 1000, and 1500, meters. The prescribed depths for the deep casts were 2000, 2500, 3000, and 150 and 50 meters off of the bottom.

Two deep-sea reversing thermometers were attached to each Nansen bottle. Between the depths of 200 and 1500 meters an unprotected thermometer was also used on four to five

Nansen bottles to determine thermometric depths. Depths which were determined thermometrically are preceded by a “T” in the station data, Tables I–IX. Field observations were returned to the Coast Guard Oceanographic Unit (CGOU) for reduction to “in situ” temperature and determination of sample depths. The procedures used in recording and processing of the thermometric data are similar to those in the U.S.N.H.O. Pub. No. 607 (1955) and Lafond (1951). The CGOU used a Digital Equipment Corporation PDP–5 computer to determine corrected temperatures for the protected thermometers and determine the thermometric depth of the unprotected thermometers.

Water samples were drawn from each Nansen bottle and stored in citrate bottles for salinity determinations. The salinity was determined aboard ship using induction salinometers. Duplicate samples were drawn from the top and bottom bottles of each cast and delivered to CGOU for quality control purposes when the vessel returned to port.

The processed temperature and salinity data were recorded on form NHO/NODC–3167/1 (1–61), “Physical and Chemical Data form for Oceanographic Stations” and delivered to the National Oceanographic Data Center (NODC). The interpolated temperatures and salinities for standard depths, sigma-t, specific volume anomalies (ΔD), and sound velocities were computed by NODC and are presented in Tables I–IX.

The Ocean Station vessels are normally required to maintain station within a ten-mile square grid. The actual positions of the stations taken on each patrol are shown in figures 3–11. Forty of the 125 stations taken were outside of the ten-mile grid.

The USCGC DUANE occupied 11 oceanographic stations during the period 8–28 October 1966. Nine of the casts were to depths ranging from 1273 to 1775 meters. One station

had useful data only to a depth of 620 meters. One deep station was taken to a depth of 3574 meters in a water depth of 3612 meters. The water depth of all stations ranged from 3450 to 3658 meters. Figure 3 shows the distribution of the stations taken during this patrol. All oceanographic data collected by the Ocean Station vessels were transmitted via radio teletype to the CGOU for real time processing and quality control. The data are listed by NODC as Ref. No. 31-771 DU and as Table I of this report.

The USCGC McCULLOCH occupied eight oceanographic stations from 24 November to 12 December 1966. Due to bad weather three stations were sampled to depths of only 716, 412, and 400 meters. Four stations were sampled to depths ranging from 1324 to 1621 meters, and one deep cast of 2875 meters was made in a water depth of 3621 meters. Figure 4 shows the distribution of stations about BRAVO. The data are listed by NODC as Ref. No. 31-819 ML and as Table II of this report.

During the period 7-31 January 1967, twenty oceanographic stations were taken by the USCGC HUMBOLDT. Difficulties prevented the taking of useful data below 285 and 398 meters on two stations. Seventeen oceanographic stations were taken between the depths of 1348 and 1729 meters. One deep cast was taken to a depth of 3396 meters. The distribution of stations is shown in figure 5. The data are listed by NODC Ref. No. 31-870 HU and as Table III of this report.

Nine oceanographic stations were taken by the USCGC BIBB from 24 February to 14 March 1967. Eight of these stations were shallow casts ranging from 1314 to 1580 meters. One deep station to 3545 meters was taken in water 3567 meters deep. The water depth at all stations ranged between 3475 and 3613 meters. The distribution of these stations is shown in figure 6. The data are listed by NODC Ref. No. 31-875 BX and as Table IV of this report.

During the period 6-24 April 1967, twelve oceanographic stations were taken at Ocean Station BRAVO by the USCGC ESCANABA. One station had useful data to a depth of only 399 meters, and eleven stations had data to depths between 1342 and 1592 meters. Due to a flaw in the cable, no deep casts could be made during this patrol. The distribution of these

stations is shown in figure 7. The data are listed by NODC Ref. No. 31-887 EN and as Table V of this report.

The USCGC SPENCER occupied Ocean Station BRAVO between 27 May and 6 June 1967. At all nine stations samples were taken that ranged in depth from 1413 to 1899 meters. All stations had water depths between 3567 and 3658 meters. No deep stations were taken. The distribution of these stations is shown in figure 8. The data are listed by NODC Ref. No. 31-1063 SC and as Table VI of this report.

Twenty-two oceanographic stations were taken during the period 29 June-21 July 1967 by the USCGC SEBAGO. During this highly successful monitoring of station BRAVO, twenty-one shallow casts were taken that ranged in depth from 1392 to 1607 meters. One deep cast to a depth of 3541 meters was taken in 3658 meters of water. The distribution of these stations is shown in figure 9. The data are listed by NODC Ref. No. 31-1092 S5 and as Table VII of this report.

Ocean Station BRAVO was again occupied by the USCGC McCULLOCH from 14 August to 5 September 1967. Of the twenty-one stations taken, three had maximum sample depths of 1092, 1021, and 1060 meters, while seventeen stations had maximum sample depths ranging from 1312 to 1784 meters. One deep cast was made to 3461 meters in 3475 meters of water. The distribution of these stations is shown in figure 10. Three of the stations are not shown because they were taken beyond the boundaries of the figure. The data are listed by NODC Ref. No. 31-1157 ML and as Table VIII of this report.

The USCGC SPENCER occupied station BRAVO for a second time from 1-20 October 1967. One shallow cast resulted in useful data only to a depth of 258 meters, six stations had useful data to depths that ranged from 936 to 1211 meters, and the remaining six shallow casts had a range of from 1395 to 1652 meters. One deep cast to 2438 meters was made. The distribution of these stations is shown in figure 11. The data are listed by NODC Ref. No. 31-1174 SC and as Table IX of this report.

Discussion

The data from the nine patrols at Ocean Station BRAVO cover a one year period from 8

October 1966 to 20 October 1967. The data of these nine patrols, as well as that gathered since January 1964, have been carefully studied in the preparation of this report. With the help of the data collected on the previous patrols, the variations of temperature and salinity since January 1964 have been included in this report.

Figures 12–20 show the vertical envelopes of temperature vs. depth for each of the nine patrols. Figure 12 shows the thermocline to be expected during the month of October. During this month the surface temperature varied between 6.14 and 7.09° C. The surface layer extended down to about 50 meters. The main thermocline was limited to the region between 50 and 100 meters where an average decrease of 2.40° C/50 meters was found. There was a slight temperature inversion between 100 and 150 meters, after which the temperature gradually decreased with depth.

The effects of the start of winter cooling are depicted in figure 13. The surface temperature ranged from 4.85 to 3.99° C. with the exception of one station where the surface temperature of 5.59° C. penetrated to a depth of 50 meters. The data for this station have been carefully checked and are considered valid. Although not defined in figure 13, there were two inversions in the top 150 meters of the water column on most of the stations taken during this patrol.

During the January 1967 patrol of the HUMBOLDT the surface temperature ranged from 3.51 to 3.96° C. as shown in figure 14. For the most part, the temperature decreased with depth; however, there was an occasional increase of temperature with depth (six out of 20 stations). The maximum temperature in the water column was found between 200 and 250 meters during the first part of the month. Toward the end of the month this maximum temperature decreased both in value and in depth as a result of lateral mixing.

This mixing continued through the patrols of both the USCGC BIBB (figure 15) and the USCGC ESCANABA (figure 16). During the BIBB patrol the temperature experienced a slight increase with depth, the depth of the maximum temperature remaining close to the 400 meter level but occasionally shifting down to 600 meters. This maximum temperature

range was 3.69–3.97° C. compared to a surface temperature range of 3.41–3.52° C. By the start of the April patrol, the temperature inversion had all but disappeared, and by the end of April the surface temperature had decreased to 3.37° C. As a result there was a gradual increase in temperature with depth throughout the water column.

Toward the end of May, warming in the upper 100 meters of the water column was noticeable (figure 17). Daily fluctuations of up to 0.42° C. occurred in the surface temperature, but below the 100 meter level the temperature remained relatively constant.

By late June the surface temperature had risen to a range of 5.75–8.41° C. There was a large temperature gradient in the upper 100 meters and a slight increase in temperature in the 100–200 meter range over the previous month (figure 18).

The surface temperature continued to increase until it reached a maximum in late August and early September (figure 19). This maximum temperature was in the neighborhood of 9.5° C. The maximum temperature gradient was still in the upper 100 meters. However, the effects of summer warming were apparent down to about 450 meters.

The surface temperature began to drop during October (figure 20). The maximum temperature gradient was still located in the upper 100 meters and the effects of warming had penetrated to 600 meters.

Figure 21 represents the variation in temperature in the upper 400 meters at Ocean Station BRAVO. Monthly averages were computed from Nansen cast data collected by the Coast Guard since it started monitoring the station in January 1964.

The most noted feature is the regularity with which the temperature varies at all four levels during each 12 month period. At the surface a maximum temperature of about 9.5° C. occurs in late August and early September for all years except 1964, and the minimum usually occurs in March with a temperature range of 3–3.5° C.

At the 50 meter level the maximum temperature lags the surface maximum by about six weeks, occurring in October. This maximum temperature (6.5° C.) is the same temperature as that at the surface at this time. The tempera-

ture at the 50 meter level then approximately coincides with the surface temperature until April when it rises more slowly than the surface temperature.

The 100 meter temperature follows the same general pattern reaching a maximum of between 4 and 5° C. in November. Once again this is the same temperature as that of the surface at this time.

The 400 meter temperature also has a pattern, but not quite the same as the upper levels. The 400 meter level descends to a minimum temperature (3.35° C) in April, and then increases gradually. At the end of December its temperature is higher than that in the upper levels. It then decreases and continues in the same general pattern.

The vertical salinity envelopes are presented in figures 22–30. As shown in figure 22, the surface salinity during October 1966 ranged from 34.56 to 34.66‰ with the halocline situated between 100 and 300 meters. Below this level there was an inversion extending down to about 600 meters of about 0.04‰/300 meters. Below the inversion the gradual increase in salinity with depth continued.

From November through March there was a gradual increase in the surface salinity with a corresponding increase of the mixing depth. During the 24 November–12 December 1966 patrol of the USCGC McCULLOCH the surface salinity increased to a range of 34.61–34.66‰ (figure 23). The mixing depth had increased 50 meters over that of the previous month to 100 meters.

Through the month of January the surface salinities increased to a range of 34.67–34.85‰. A fairly large gradient was present during the first part of the month. However, by the end of January this had been reduced substantially with mixing occurring down to 300 meters (figure 24).

Figure 25 shows a column of isohaline water whose lower limit varied between 400 and 550 meters. The surface salinities ranged only from 34.79 to 34.83‰.

By April the halocline had all but disappeared and the surface salinities had again increased, the range at that time being 34.82–34.86‰. This relatively isohaline column quickly disappeared in May as indicated by figure 27. The surface salinity dropped

(34.75–34.84‰) and maxing occurred only in the upper 100 meters. The next four months experienced a continual decrease in surface salinity, greater salinity gradients, and a decrease in the mixing depth to 50 meters.

The monthly averages of salinity for 4 levels (0,50,100,400 meters) are plotted in figure 31. As was seen in the corresponding plot for temperature, there are definite variations that occur within each year. The surface salinity reaches a minimum in September (≈ 34.52 ‰). The salinity then increases until November after which there seems to be a secondary salinity minimum in December. There is a rather sharp increase in salinity in January which then becomes more gradual until a maximum is reached in April.

The variation of salinity at the 50 meter level is somewhat more erratic than at the surface. The salinity minimum appears to occur in October with a secondary minimum in December. Sufficient data have not been collected during these winter months to accurately determine the complex variations of salinity for this time of year. From December through May the salinity at the 50 meter level follows the surface salinity quite closely. There appears to be another salinity minimum in August.

At the 100 meter level the salinity minimum occurs in December. There seems to be little rhyme or reason for the monthly variation of salinity at the 400 meter level. This is probably due to the fact that the 400 meter level is not directly influenced by surface effects, but is influenced by lateral motion and diffusion instead.

In Figure 32 are plotted the annual variations of temperature at various depths for the period from January 1964 to October 1967. This plot tends to bring out the striking similarity of the temperature variation each year. Figure 33 is a similar plot for salinity. Once again this similarity is noticed.

Summary

The nine patrols at Ocean Station BRAVO during the period 8 October 1966–20 October 1967, plus data collected during previous periods, present a fairly clear picture of the variations of temperature and salinity vs. depth. The monthly and seasonal variations of temperature, and to a lesser degree salinity, have

been quite regular for each of the years 1964-1967, with the maximum surface temperature occurring in late August and early September, and the minimum generally occurring in April.

The primary salinity minimum of the surface occurs in September with a secondary minimum following three months later in December. The salinity maximum coincides with the temperature minimum in April.

A comparison of figures 21 and 31 shows that the depth of penetration of the surface temperature is controlled by the halocline. Since the halocline is present throughout the major part of the year, it appears as though there would be little overturn of the water column in the vicinity of Ocean Station BRAVO.

However, this can not be substantiated until parameters other than temperature and salinity are studied on a time series basis in this vicinity.

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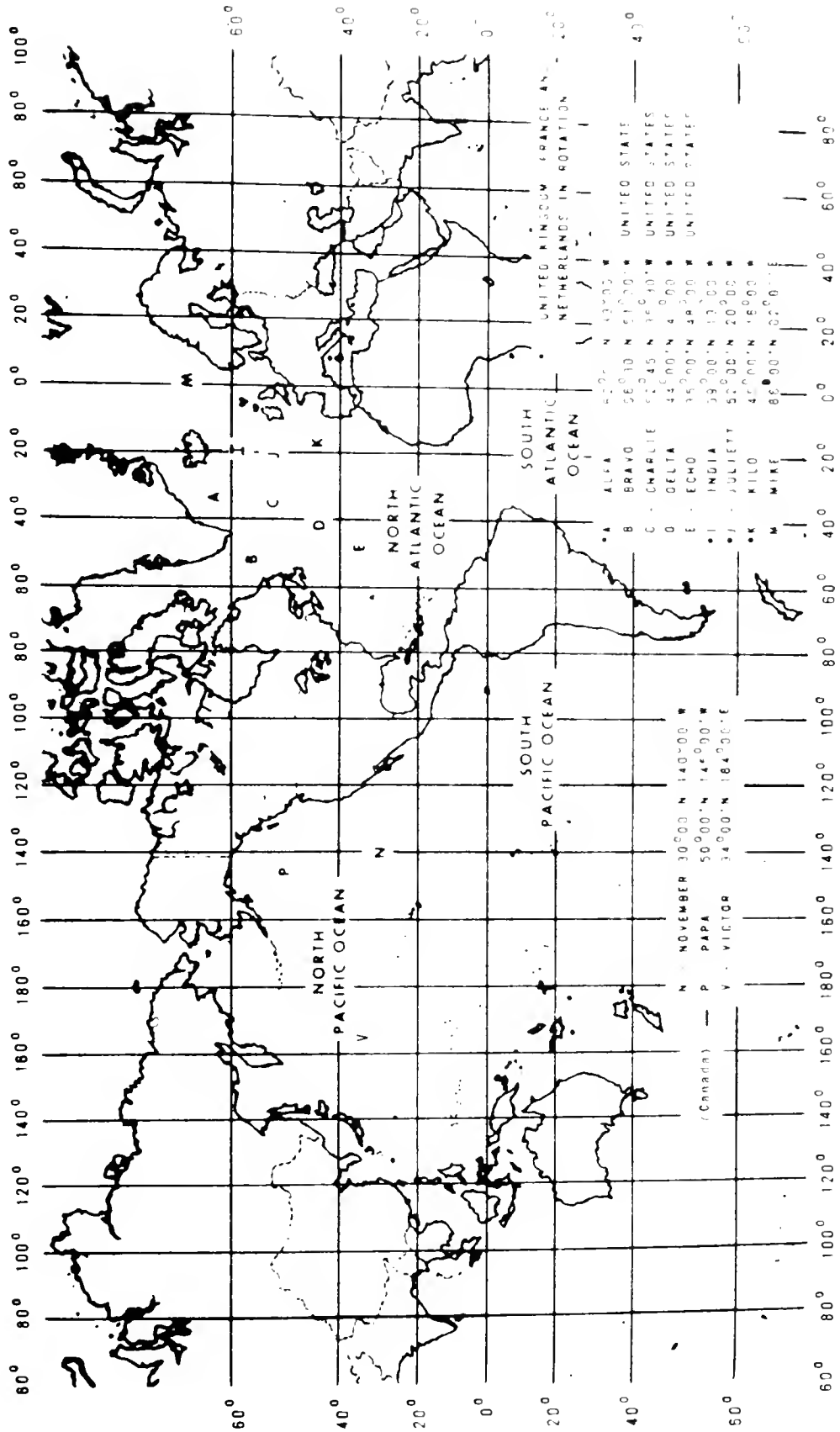


Figure 1. Chart of all Ocean Stations in the world.

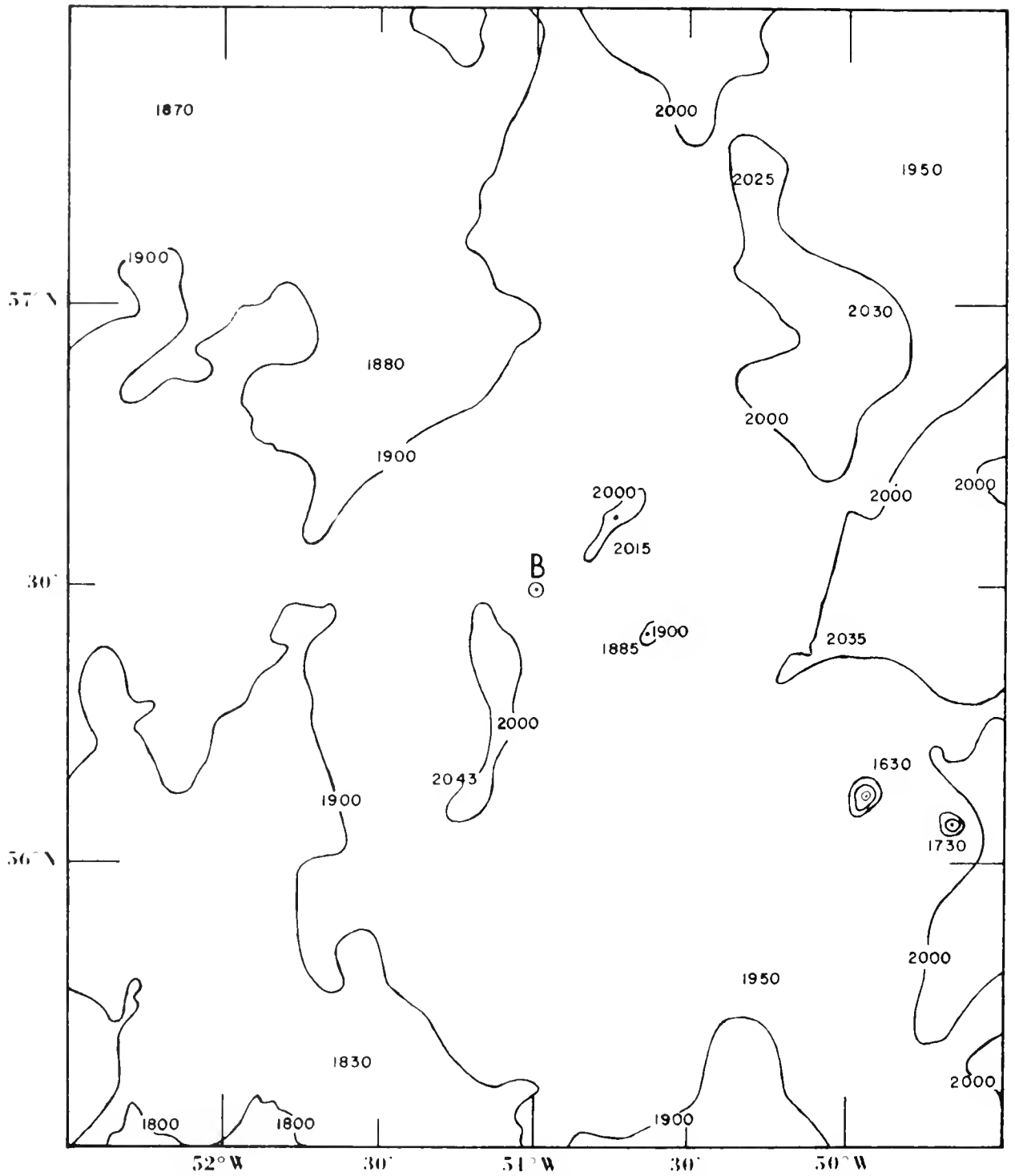


Figure 2. Bathymetric chart of Ocean Station BRAVO, (contoured in fathoms).

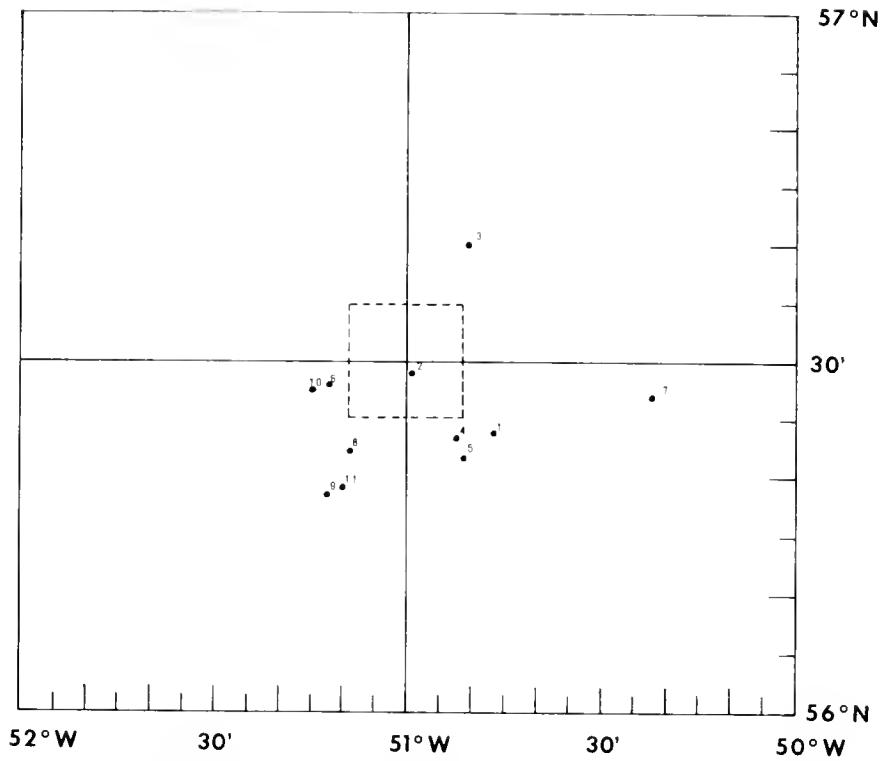


Figure 3. Positions of oceanographic stations taken by USCGC DUANE during 8-28 October 1966 at Ocean Station BRAVO.

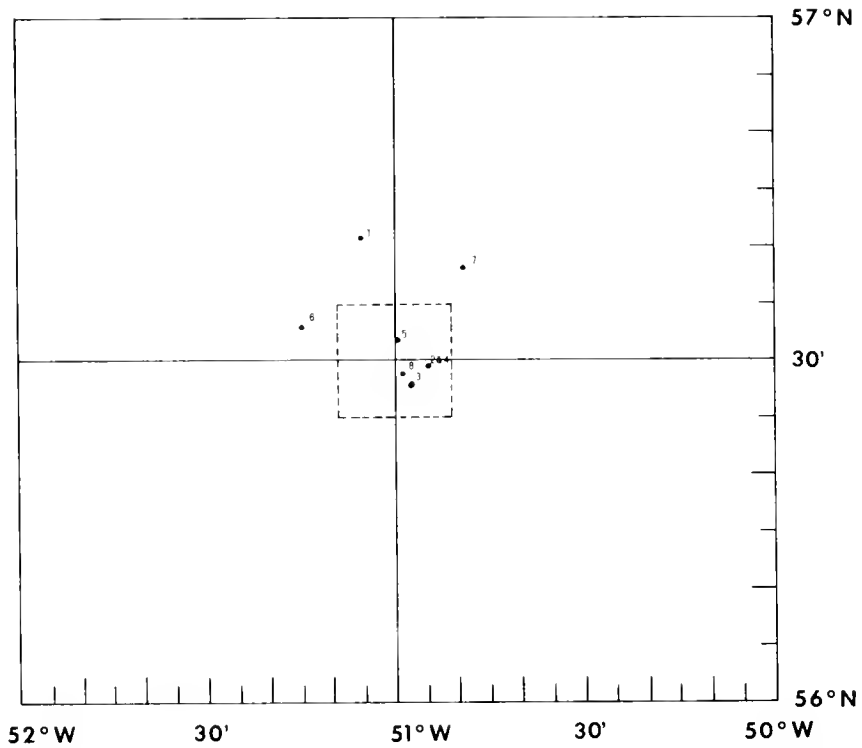


Figure 1. Positions of oceanographic stations taken by USCGC McCULLOCH during 24 November-12 December 1966 at Ocean Station BRAVO.

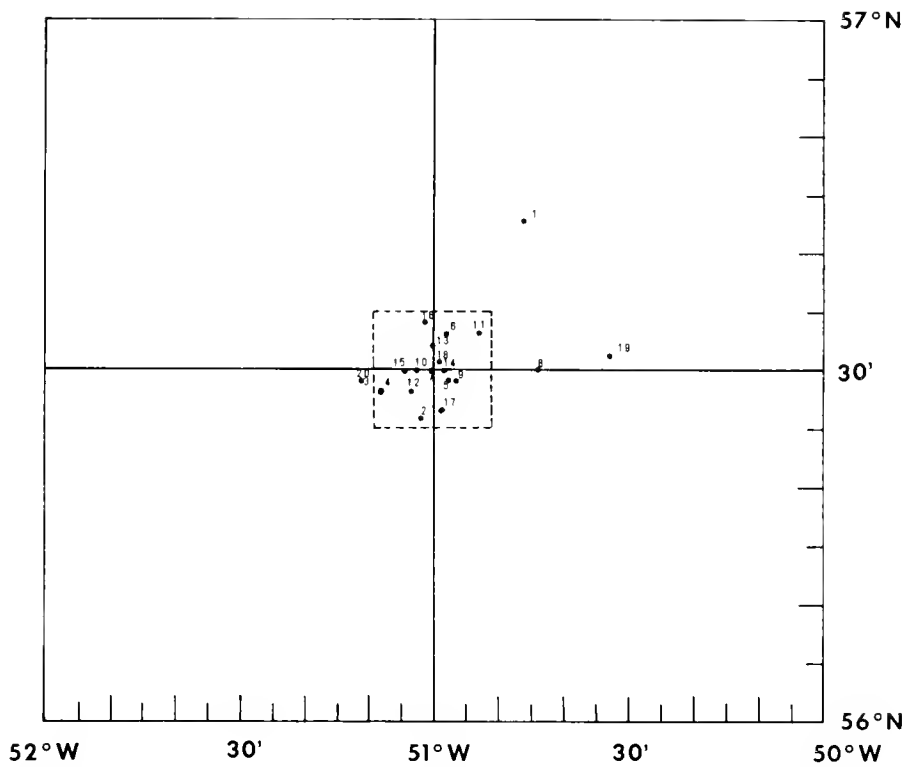


Figure 5. Positions of oceanographic stations taken by USCGC HUMBOLDT during 7-31 January 1967 at Ocean Station BRAVO.

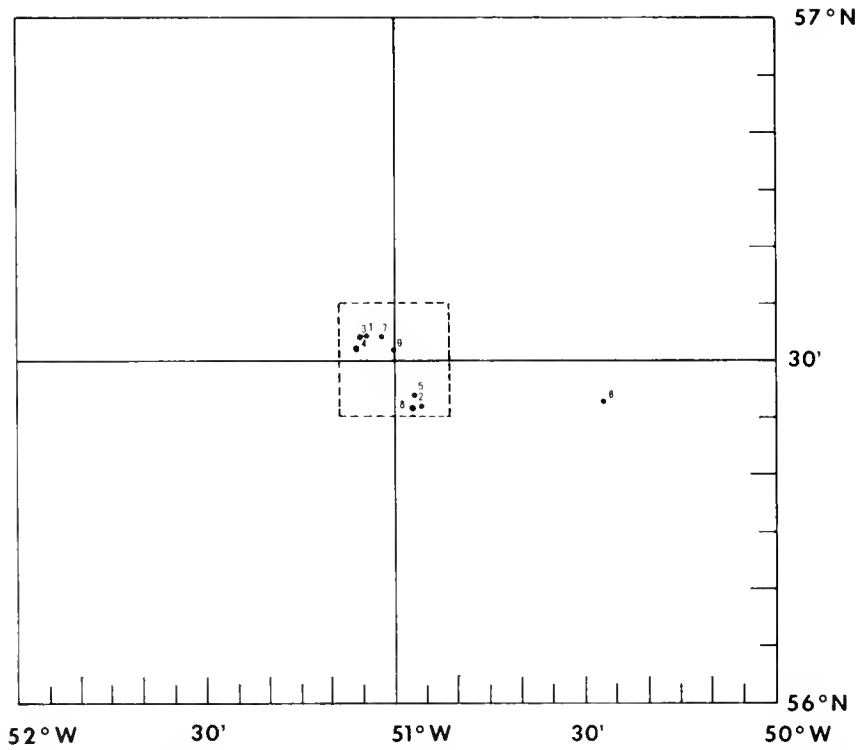


Figure 6. Positions oceanographic stations taken by USCGC BIBB during 24 February-14 March 1967 at Ocean Station BRAVO.

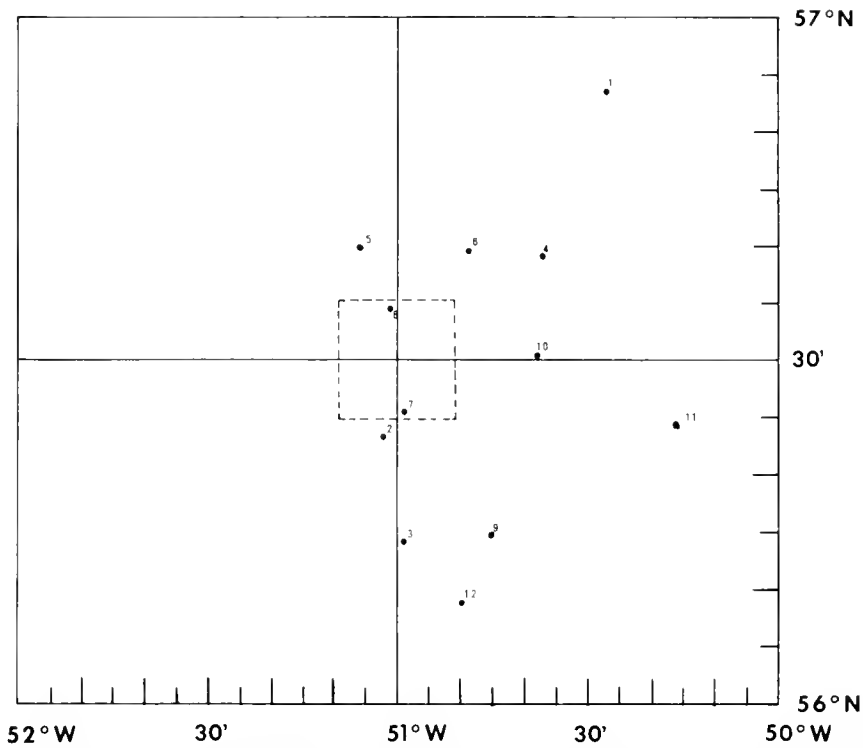


Figure 7. Positions of oceanographic stations taken by USCGC ESCANABA during 6-24 April 1967 at Ocean Station BRAVO.

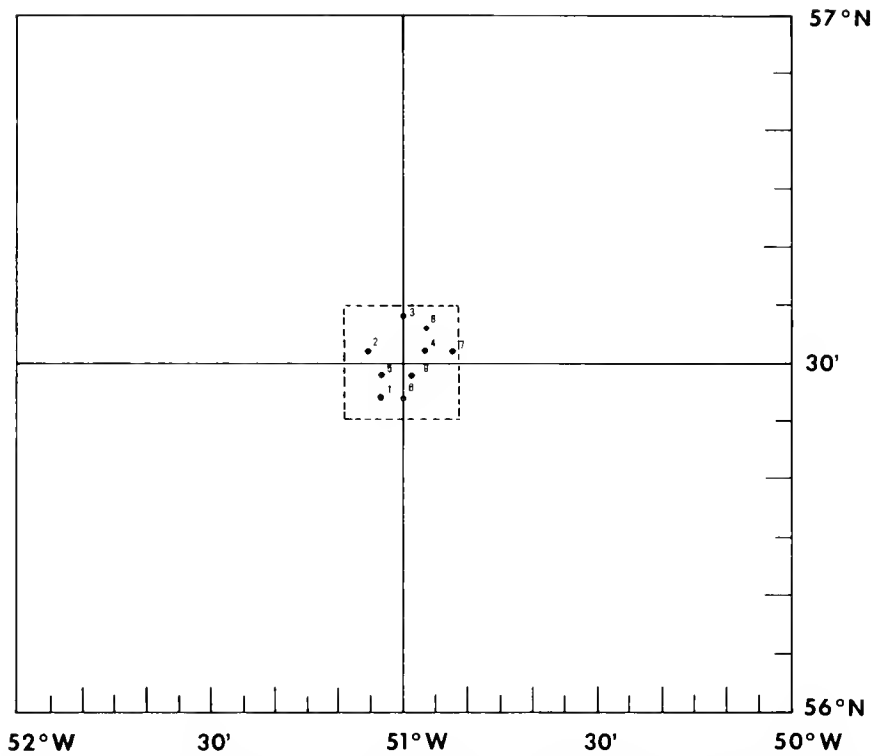


Figure 8. Positions of oceanographic stations taken by USCGC SPENCER during 27 May-6 June 1967 at Ocean Station BRAVO.

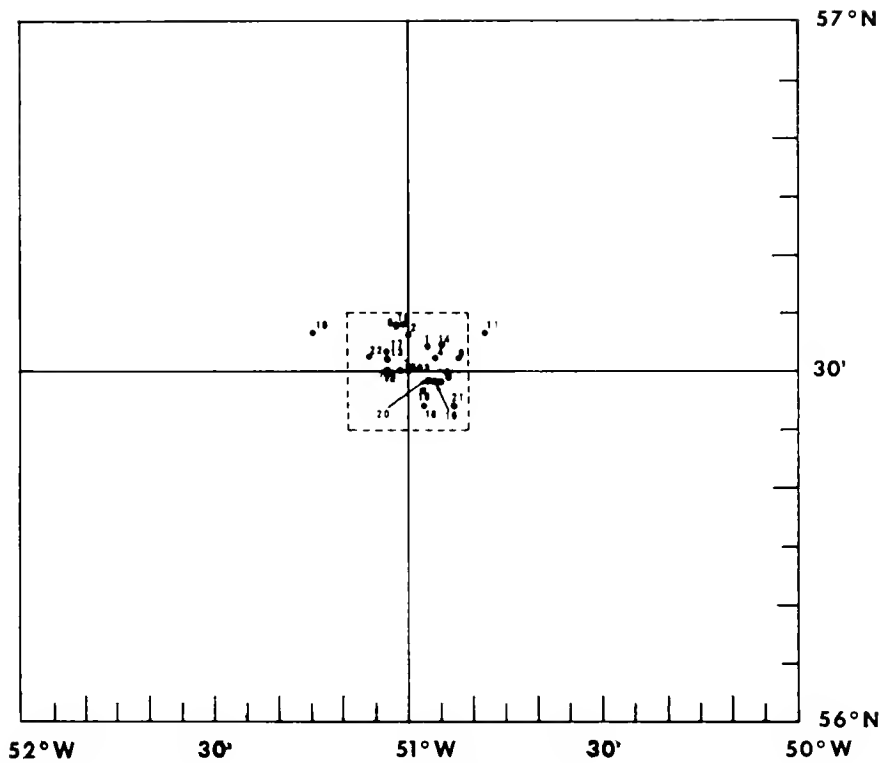


Figure 9. Positions of oceanographic stations taken by USCGC SEBAGO during 29 June–21 July 1967 at Ocean Station BRAVO.

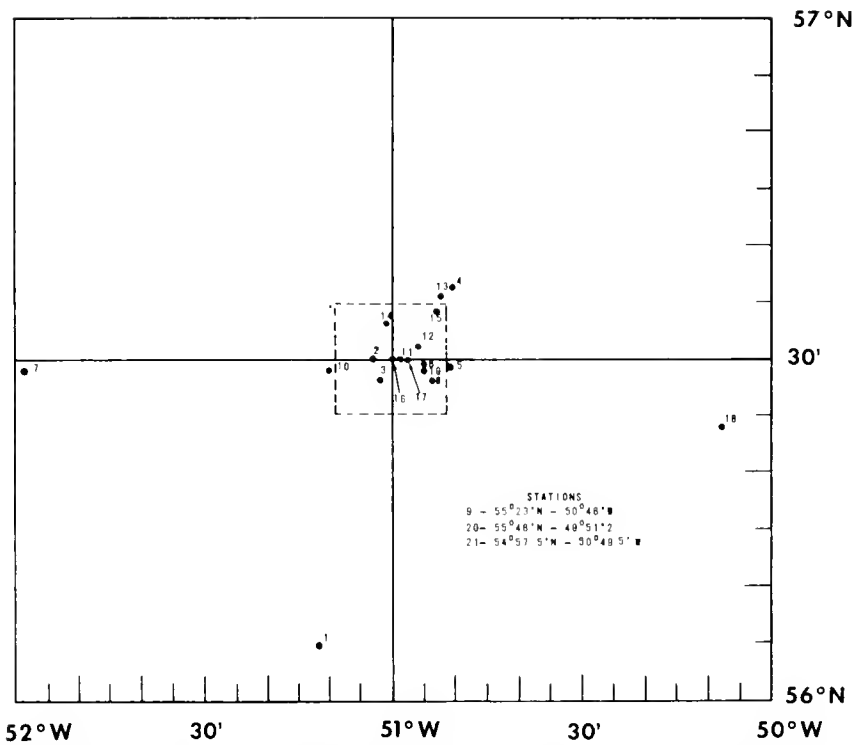


Figure 10. Positions of oceanographic stations taken by USCGC McCULLOCH during 14 August-5 September 1967 at Ocean Station BRAVO.

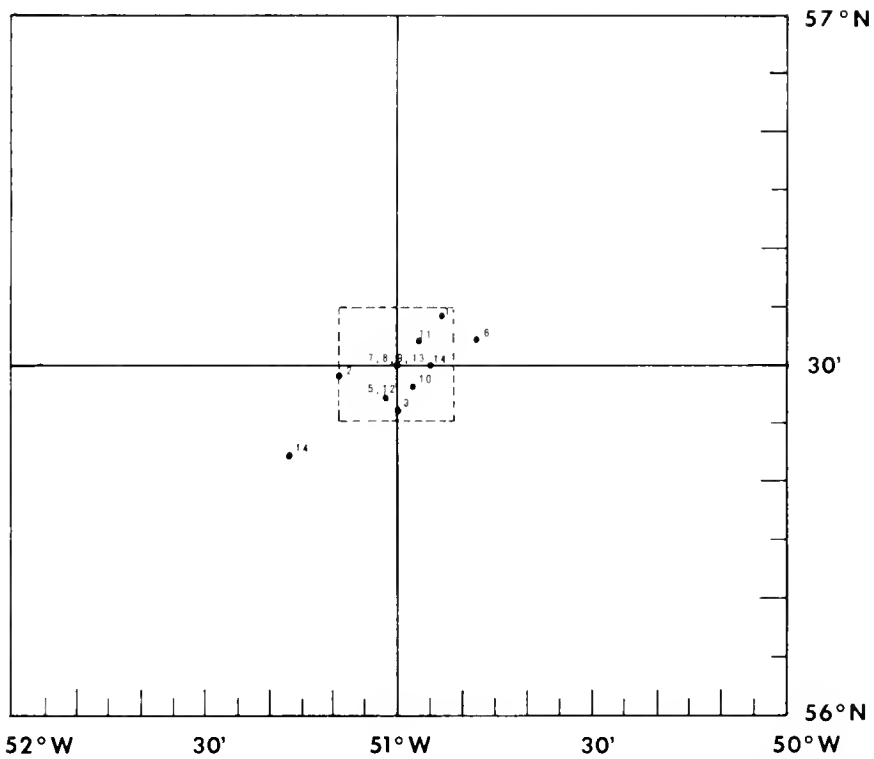


Figure 11. Positions of oceanographic stations taken by USCGC SPENCER during 1-20 October 1967 at Ocean Station BRAVO.

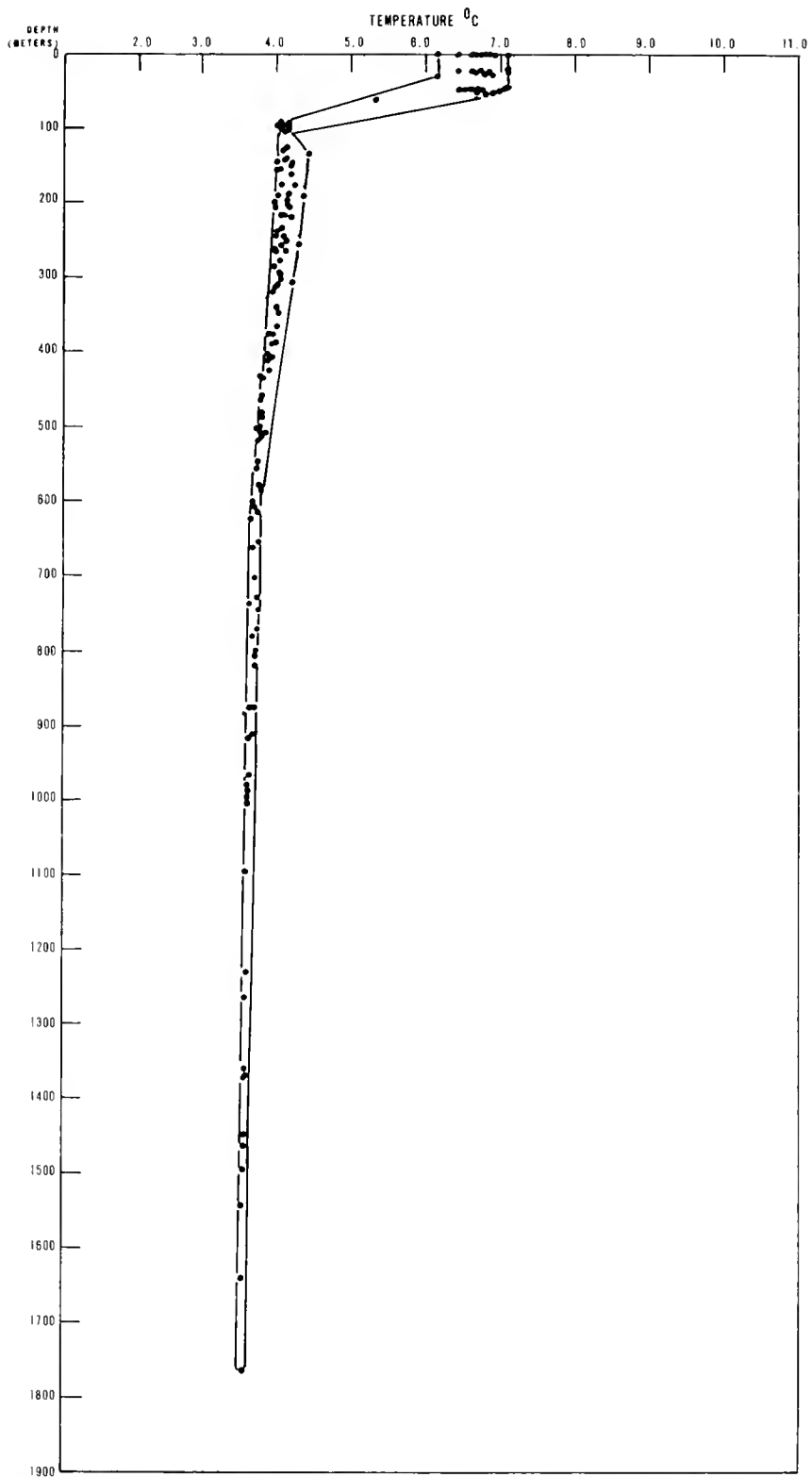


Figure 12. Envelope of temperature versus depth at oceanographic stations taken by USCGC DUANE at Ocean Station BRAVO, 8-28 October 1966.

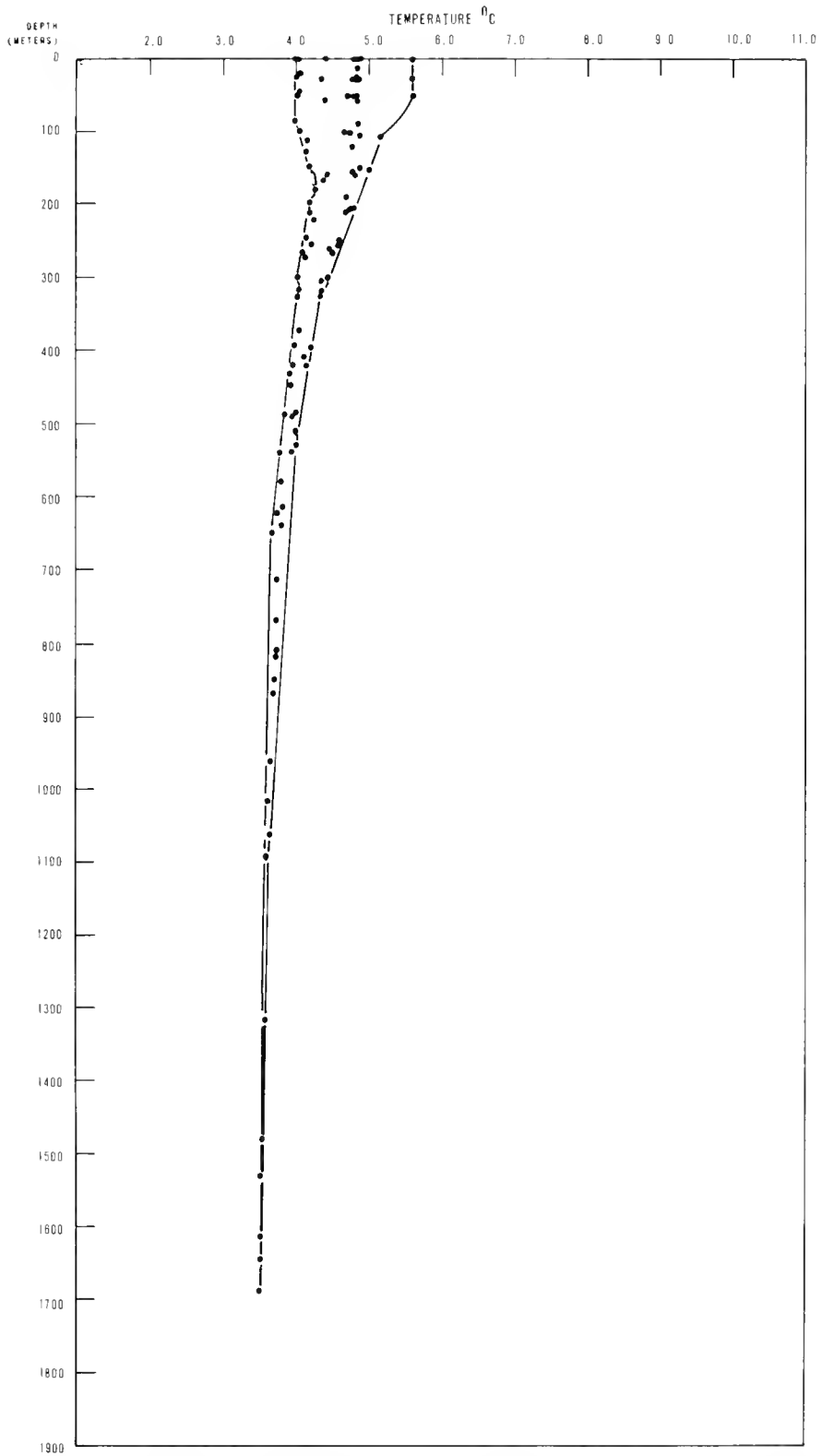


Figure 13. Envelope of temperature versus depth of oceanographic stations taken by USCGC McCULLOCH at Ocean Station BRAVO, 24 November-12 December 1966.

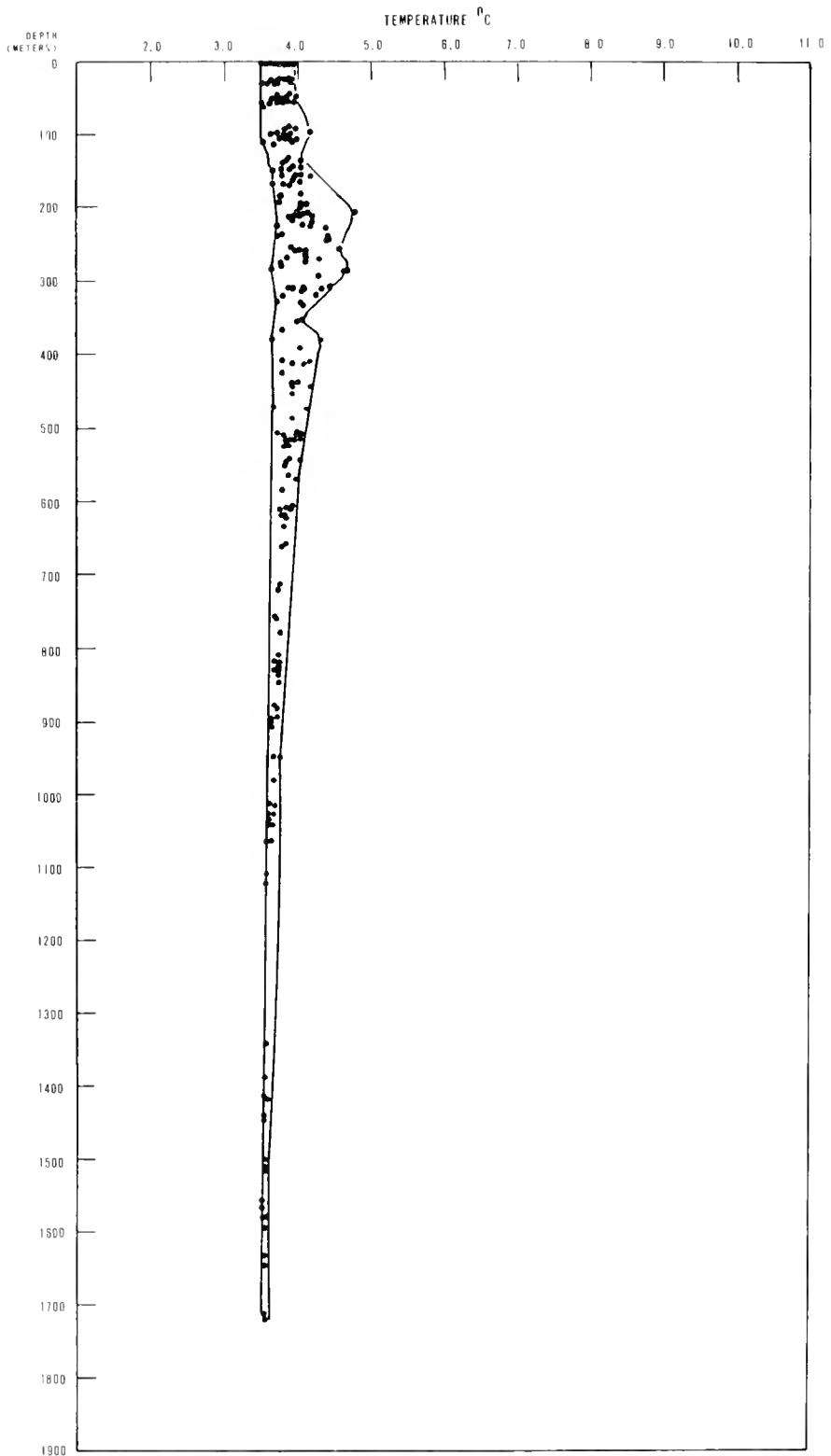


Figure 14. Envelope of temperature versus depth of oceanographic stations taken by USCGC HUMBOLDT at Ocean Station BRAVO, 7-31 January 1967.

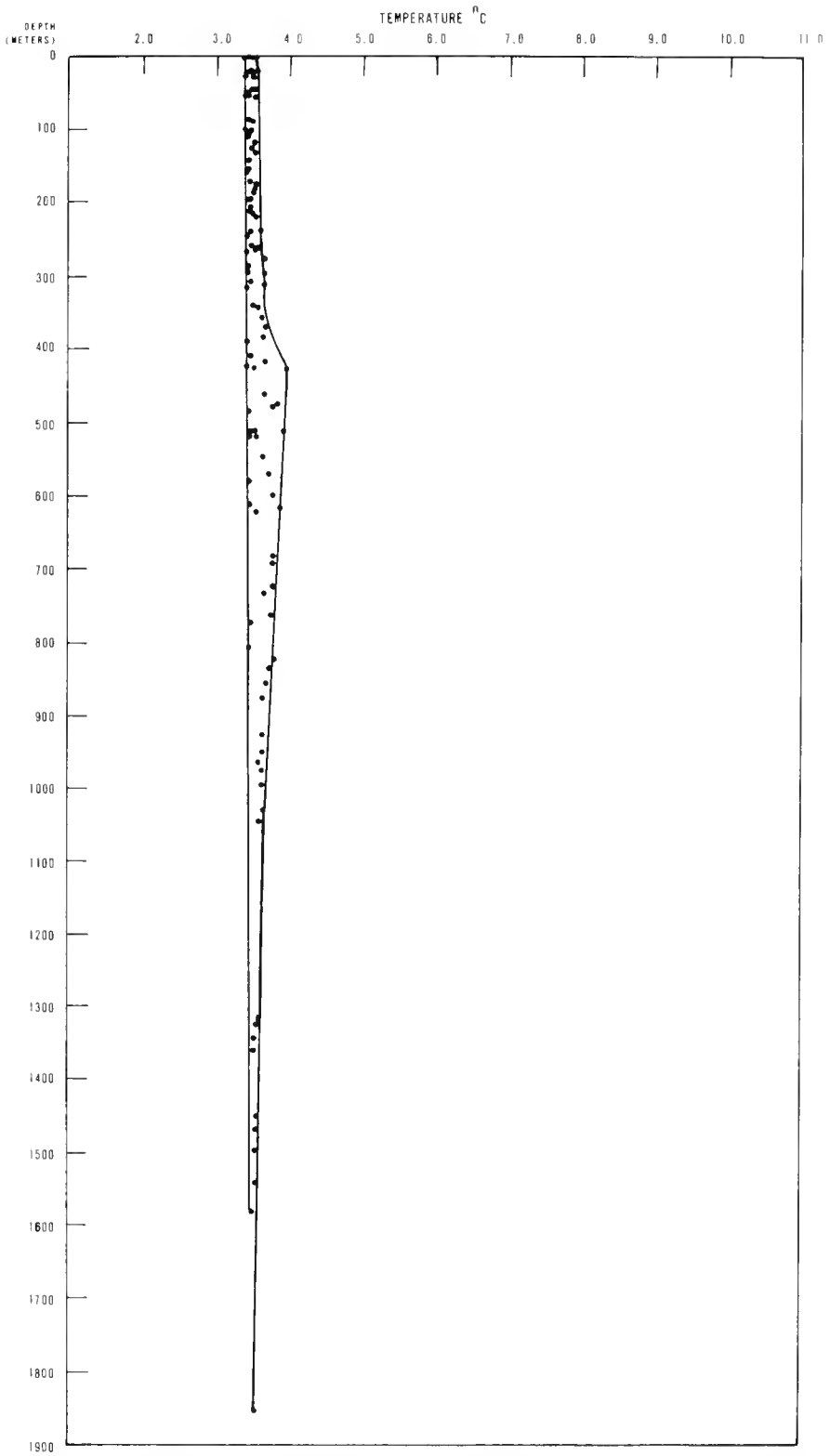


Figure 15. Envelope of temperature versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station BRAVO, 24 February–14 March 1967.

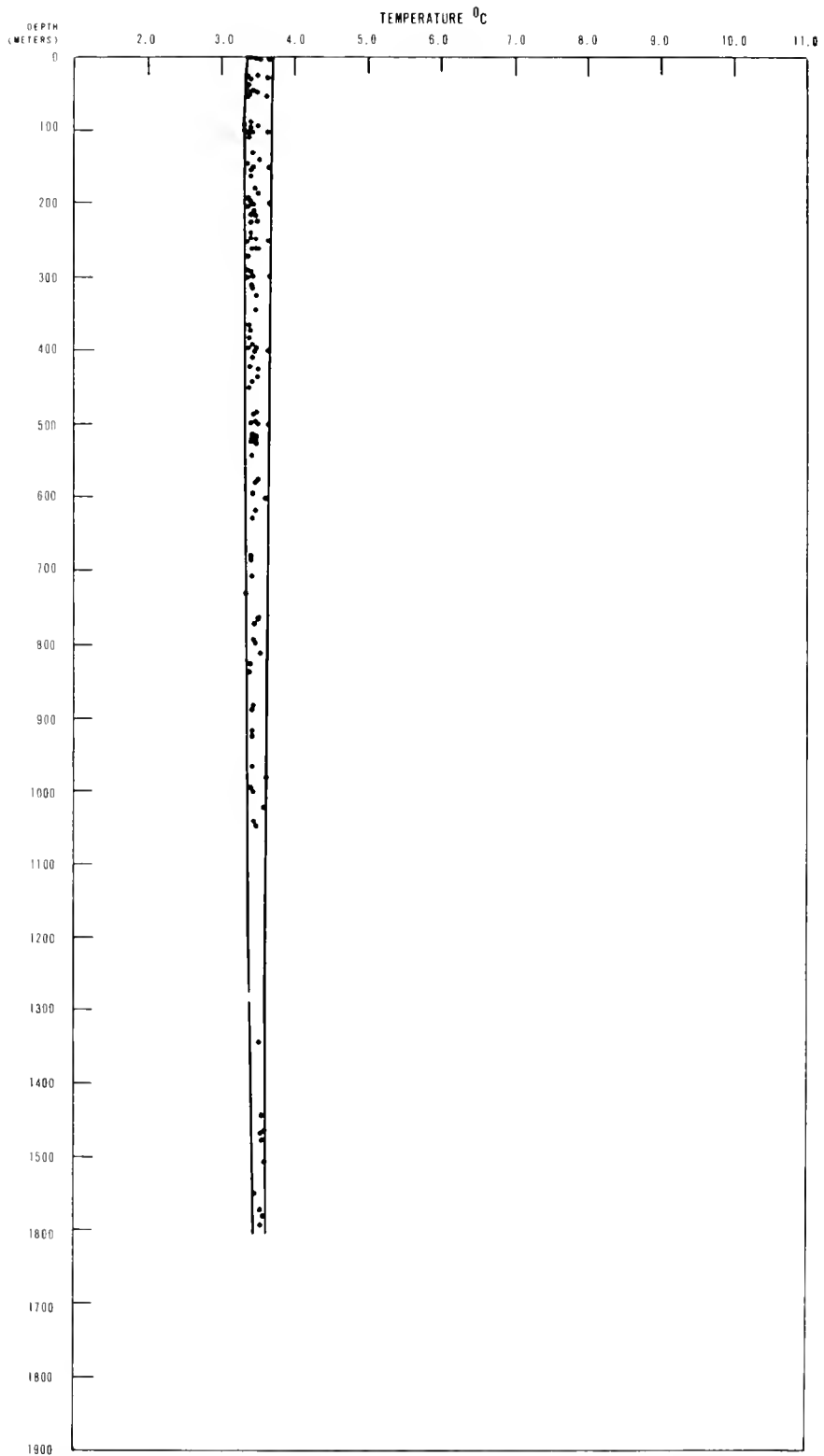


Figure 16. Envelope of temperature versus depth at oceanographic stations taken by USCGC ESCANABA at Ocean Station BRAVO, 6-24 April 1967.

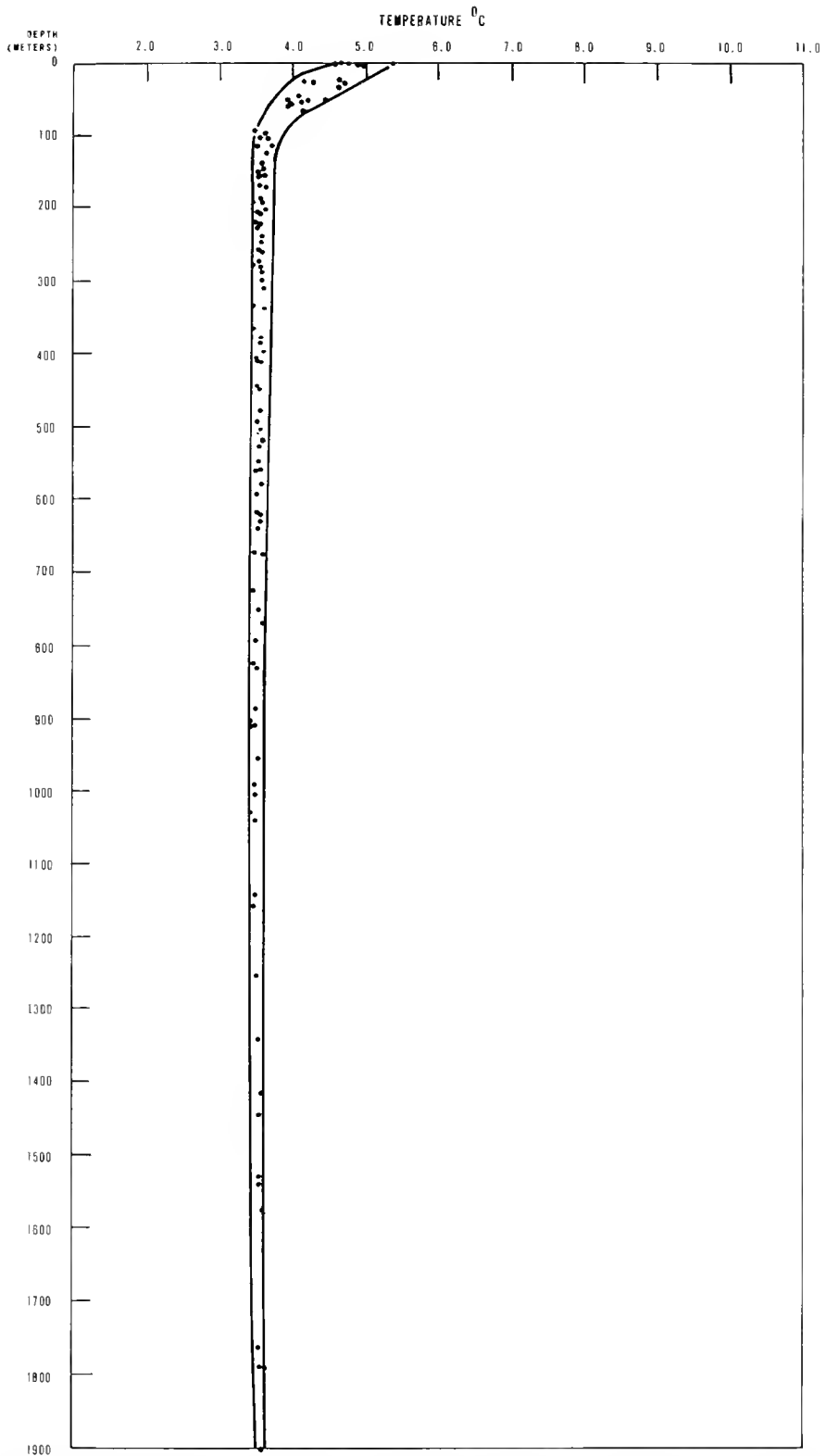


Figure 17. Envelope of temperature versus depth at oceanographic stations taken by USCGC SPENCER at Ocean Station BRAVO, 27-6 June 1967.

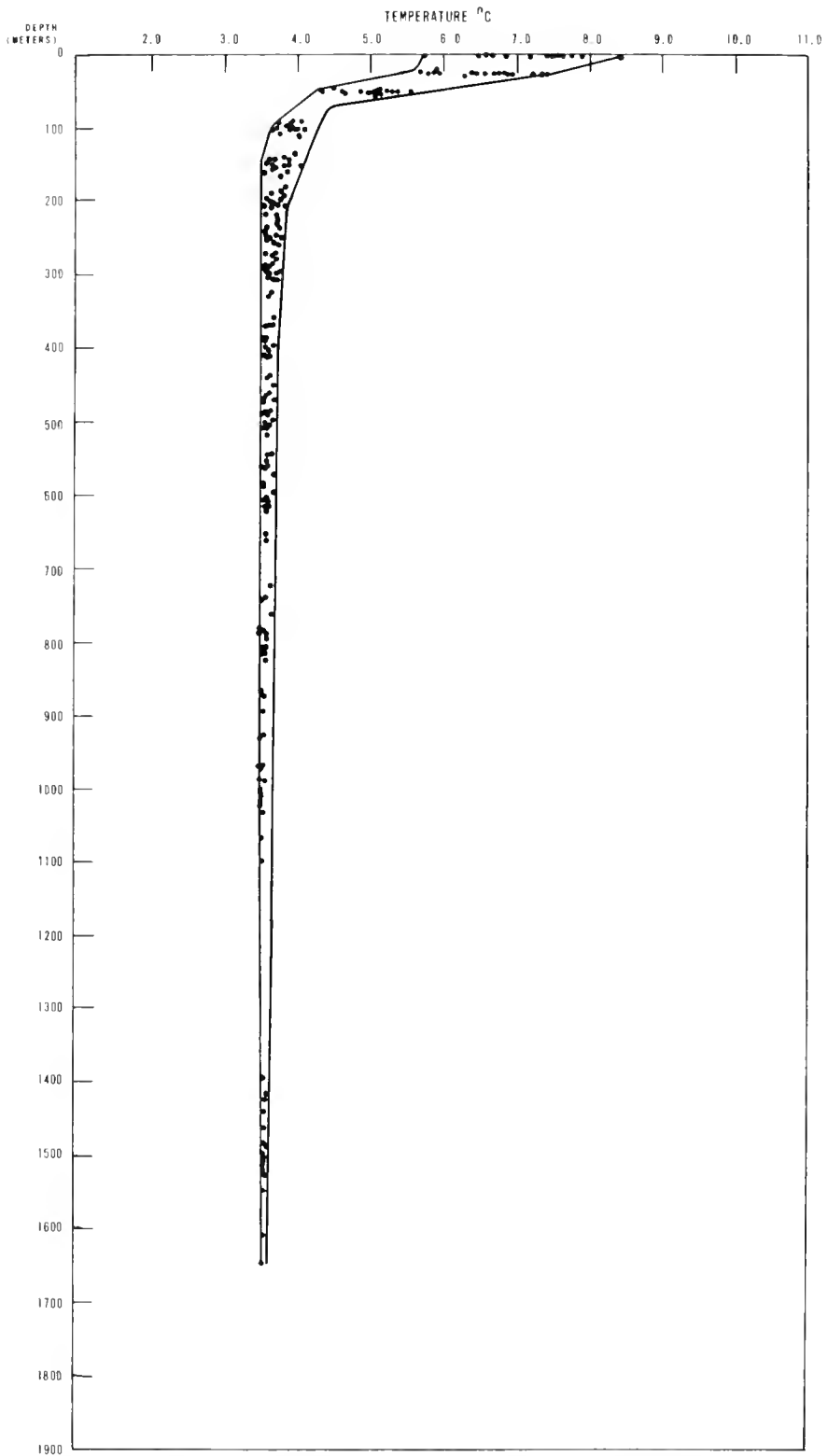


Figure 18. Envelope of temperature versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station BRAVO, 29 June-21 July 1967.

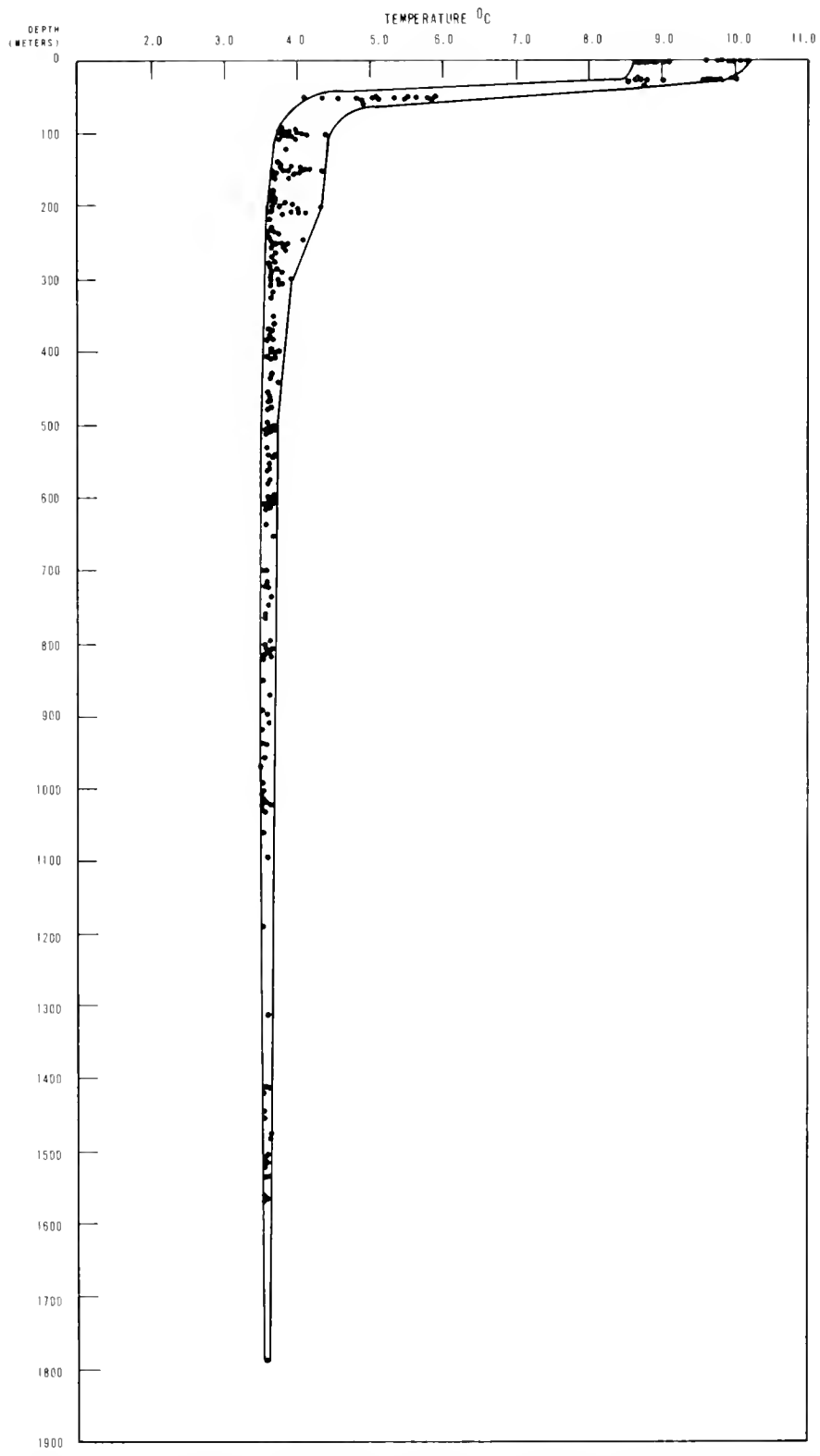


Figure 19. Envelope of temperature versus depth at oceanographic stations taken by USCGC McCULLOCH at Ocean Station BRAVO, 14 August-5 September 1967.

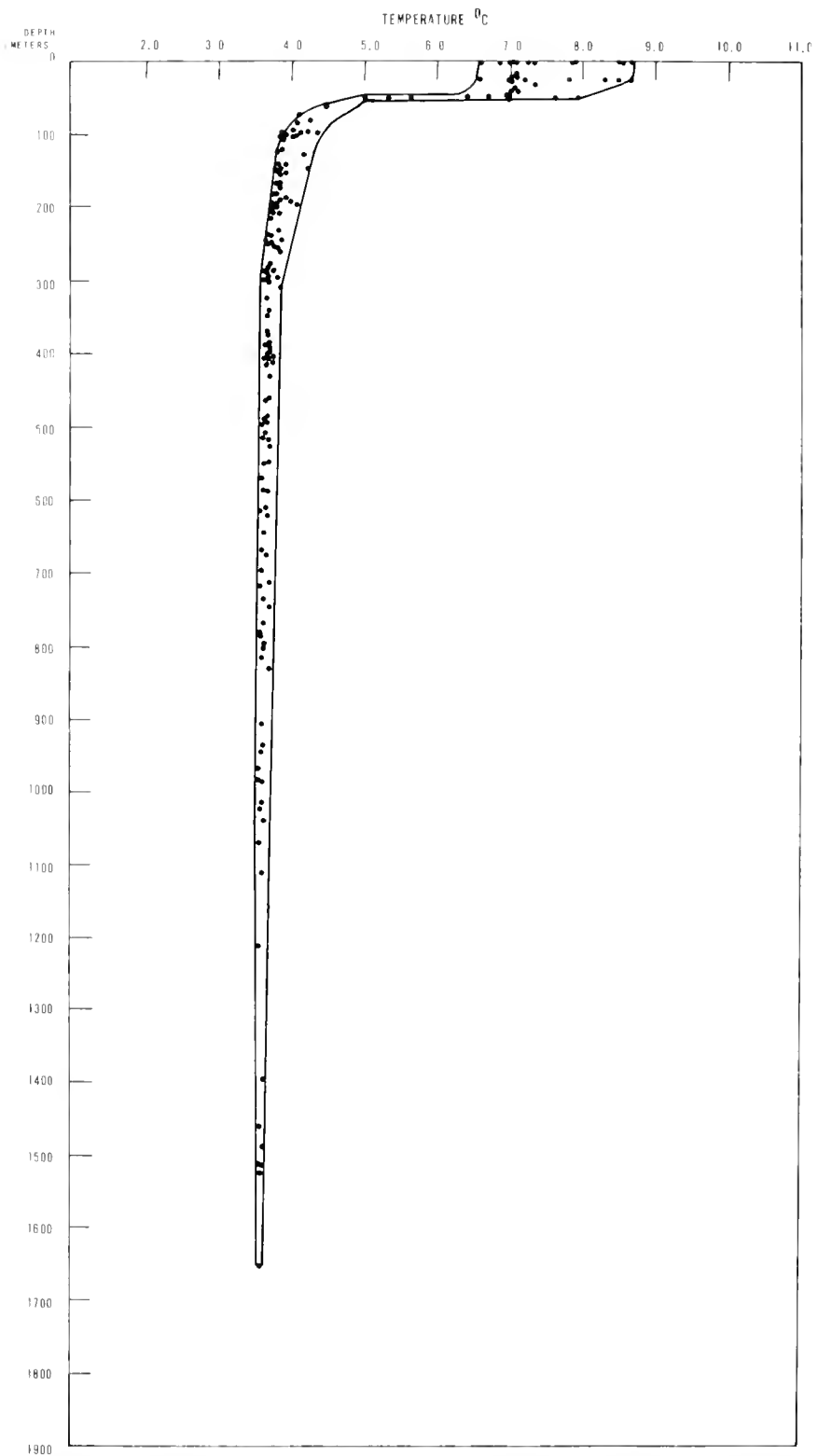


Figure 20. Envelope of temperature versus depth at oceanographic stations taken by USCGC SPENCER at Ocean Station BRAVO, 1-20 October 1967.

TEMPERATURE VERSUS TIME AT SELECTED LEVELS AT OCEAN STATION BRAVO

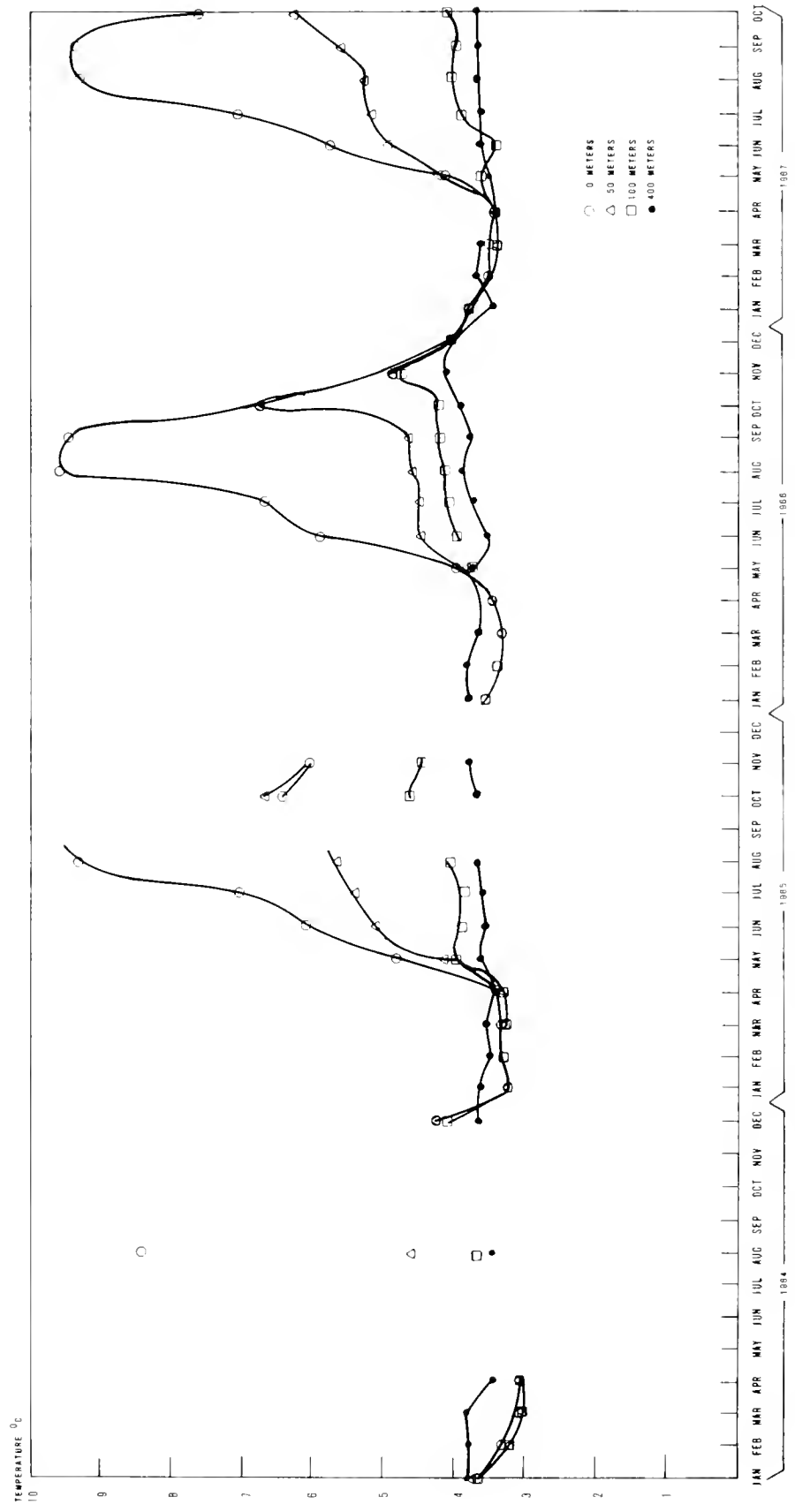


Figure 21. Monthly averages of water temperature versus time at selected depths at Ocean Station BRAVO, January 1964–October 1967.

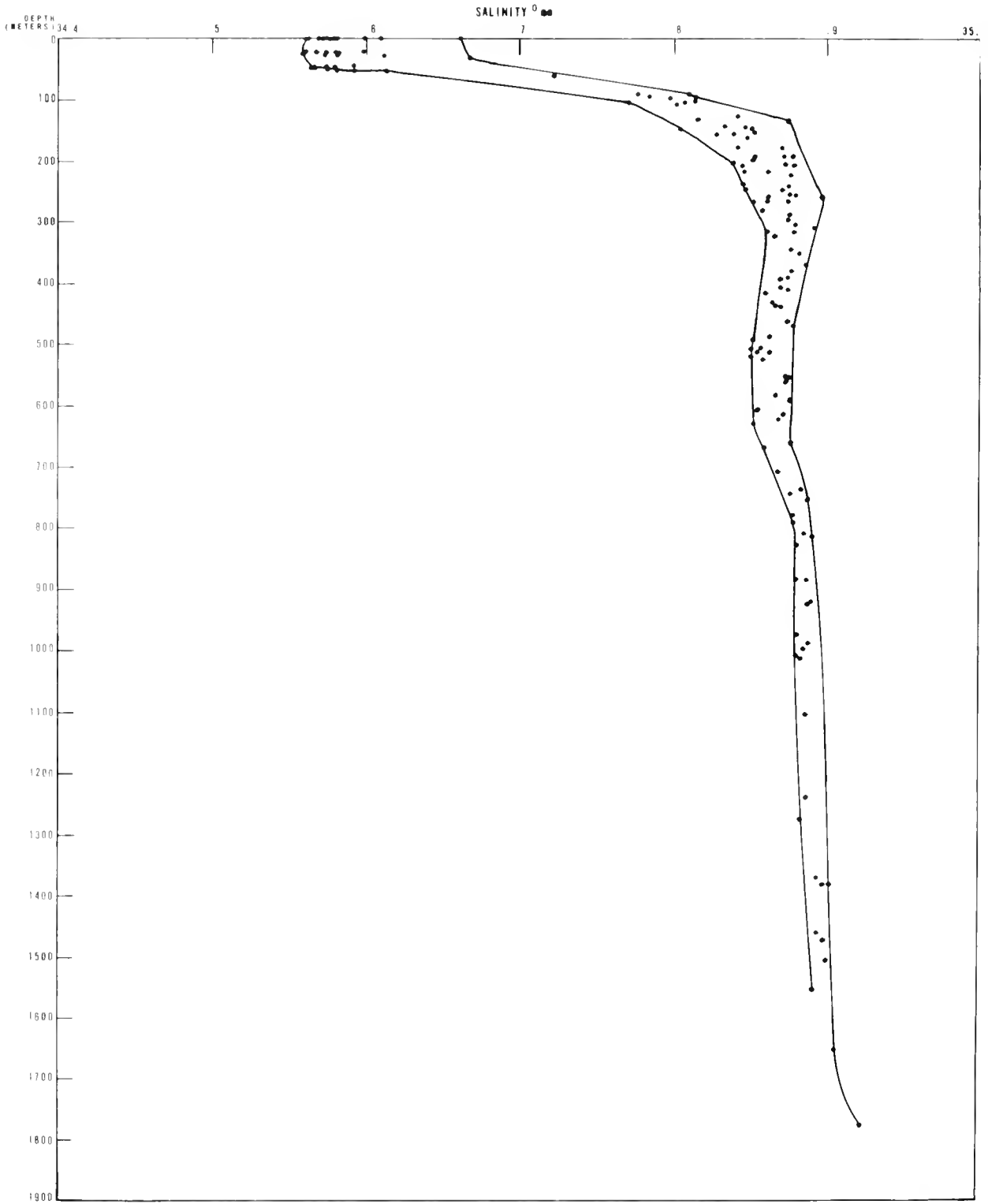


Figure 22. Envelope of salinity versus depth at oceanographic stations taken by USCGC DUANE at Ocean Station BRAVO, 8-28 October 1966.

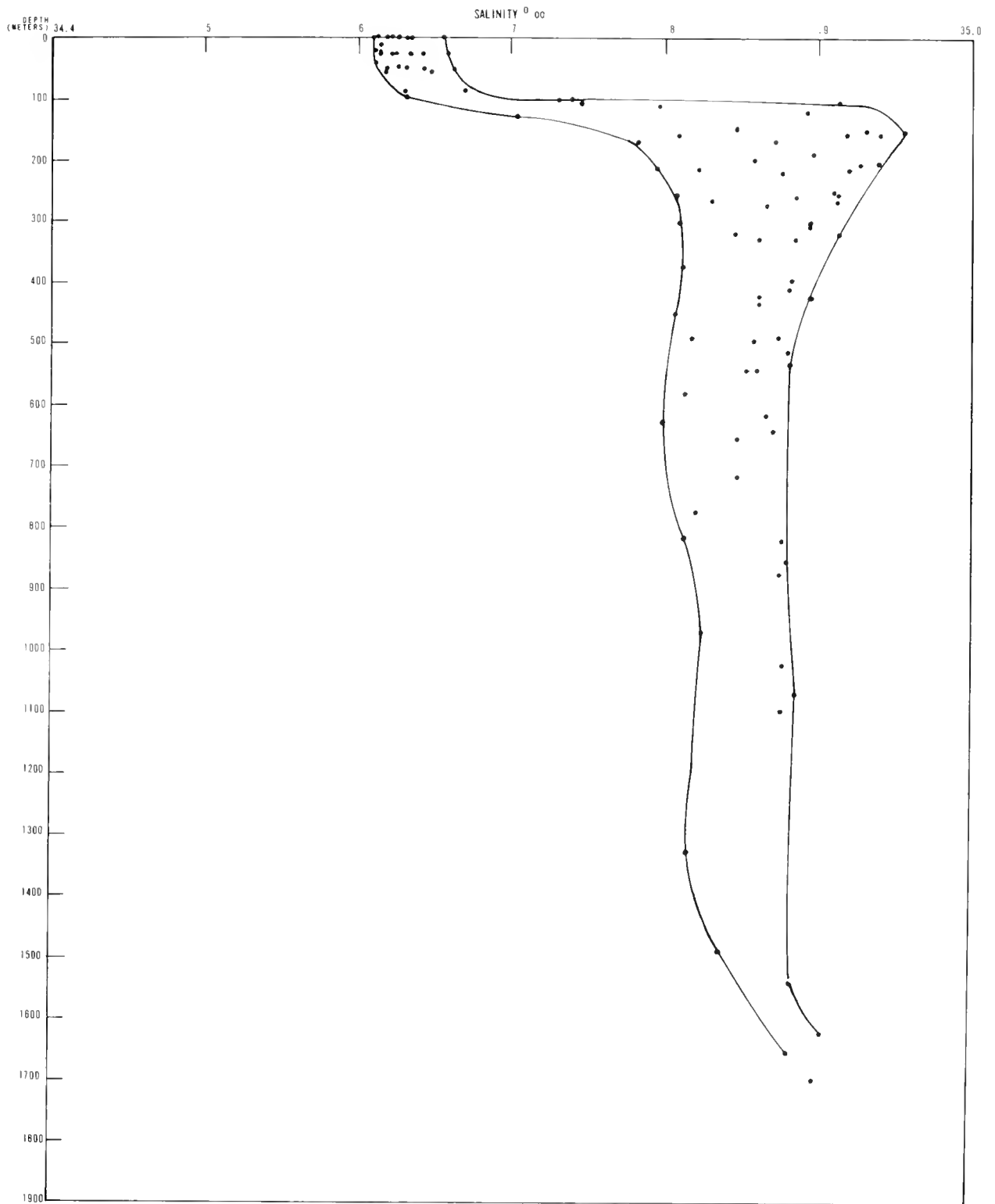


Figure 23. Envelope of salinity versus depth at oceanographic stations taken by USCGC McCULLOCH at Ocean Station BRAVO, 24 November-12 December 1966.

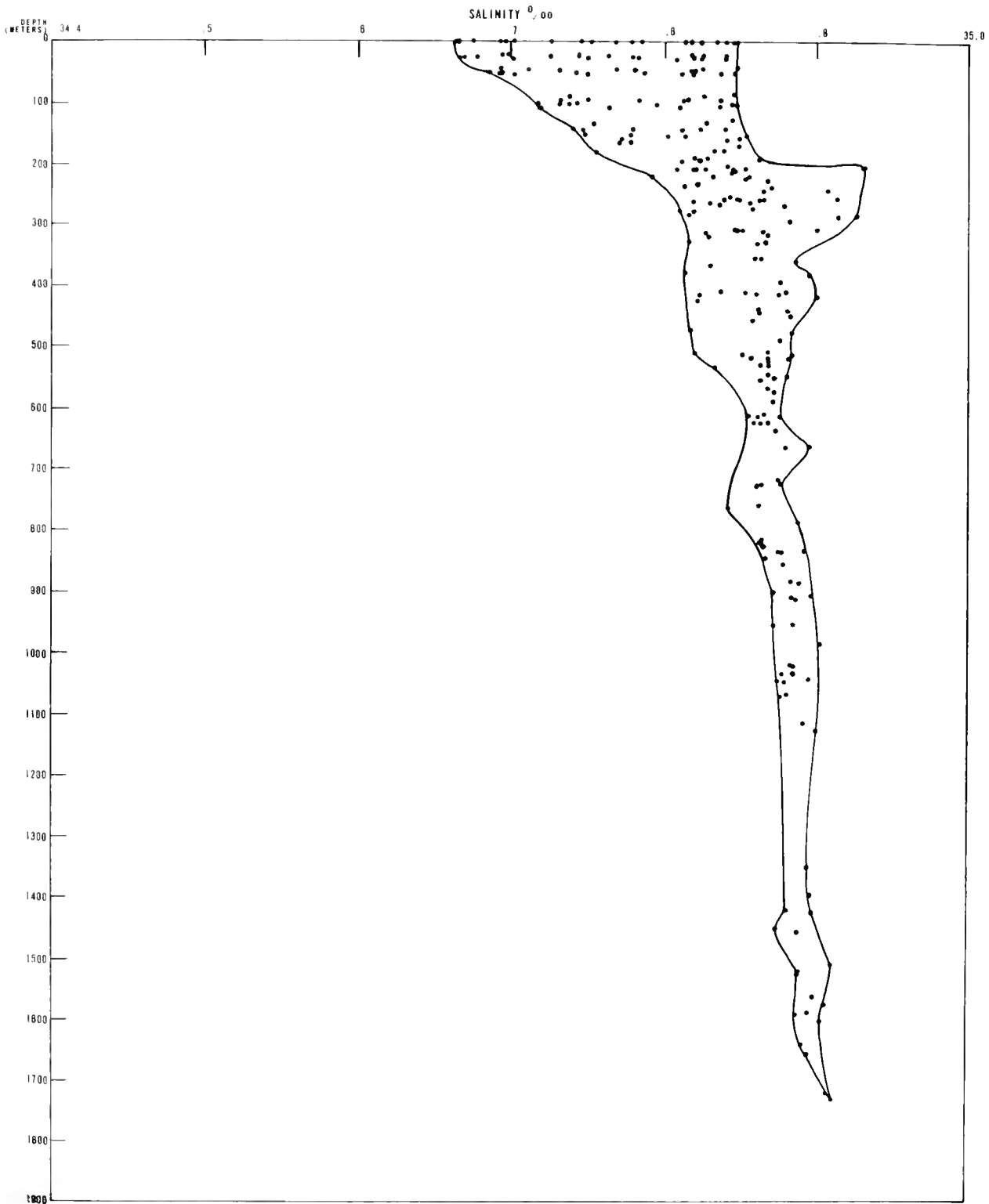


Figure 24. Envelope of salinity versus depth at oceanographic stations taken by USCGC HUMBOLDT at Ocean Station BRAVO, 7-31 January 1967.

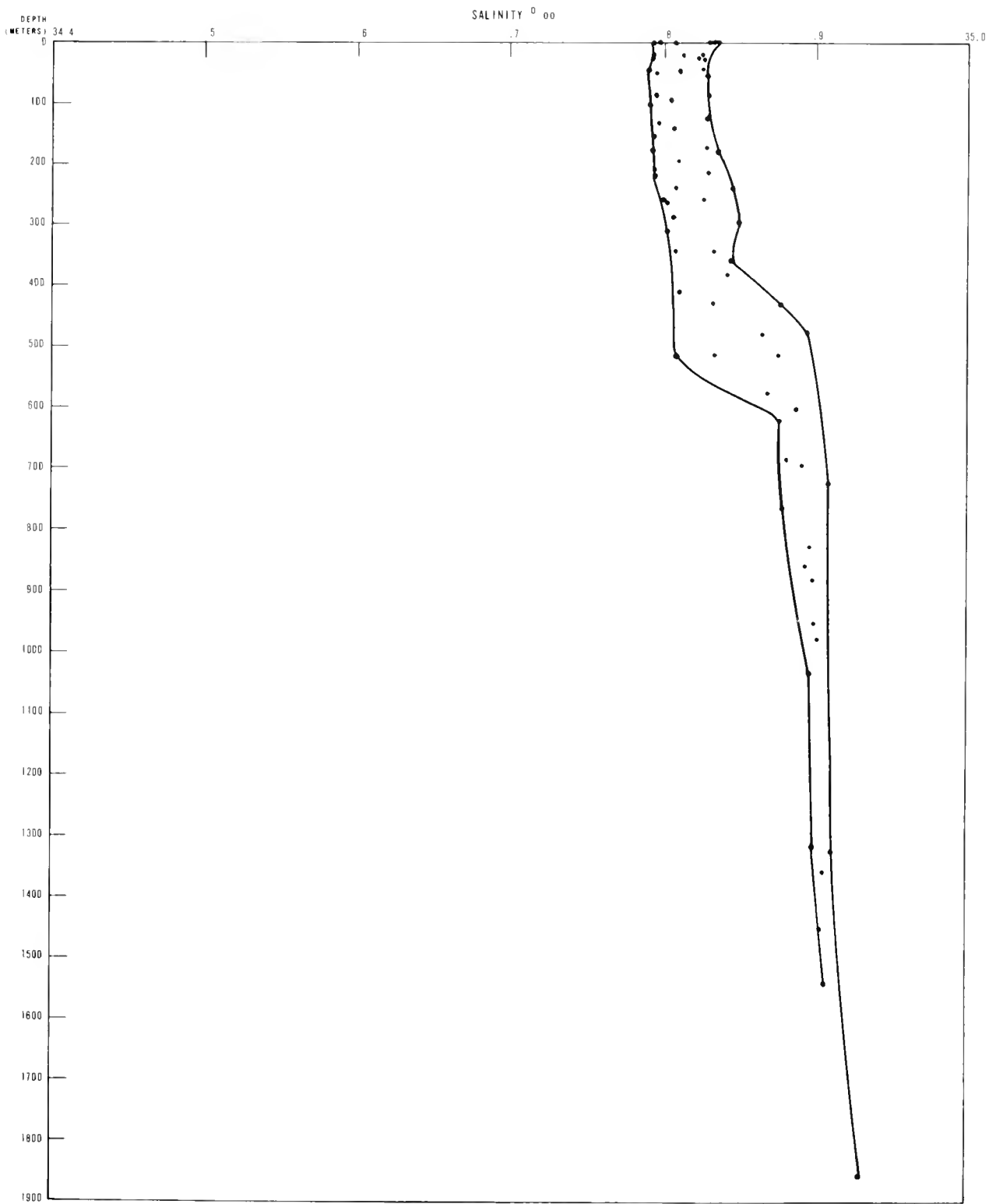


Figure 25. Envelope of salinity versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station BRAVO, 24 February-14 March 1967.

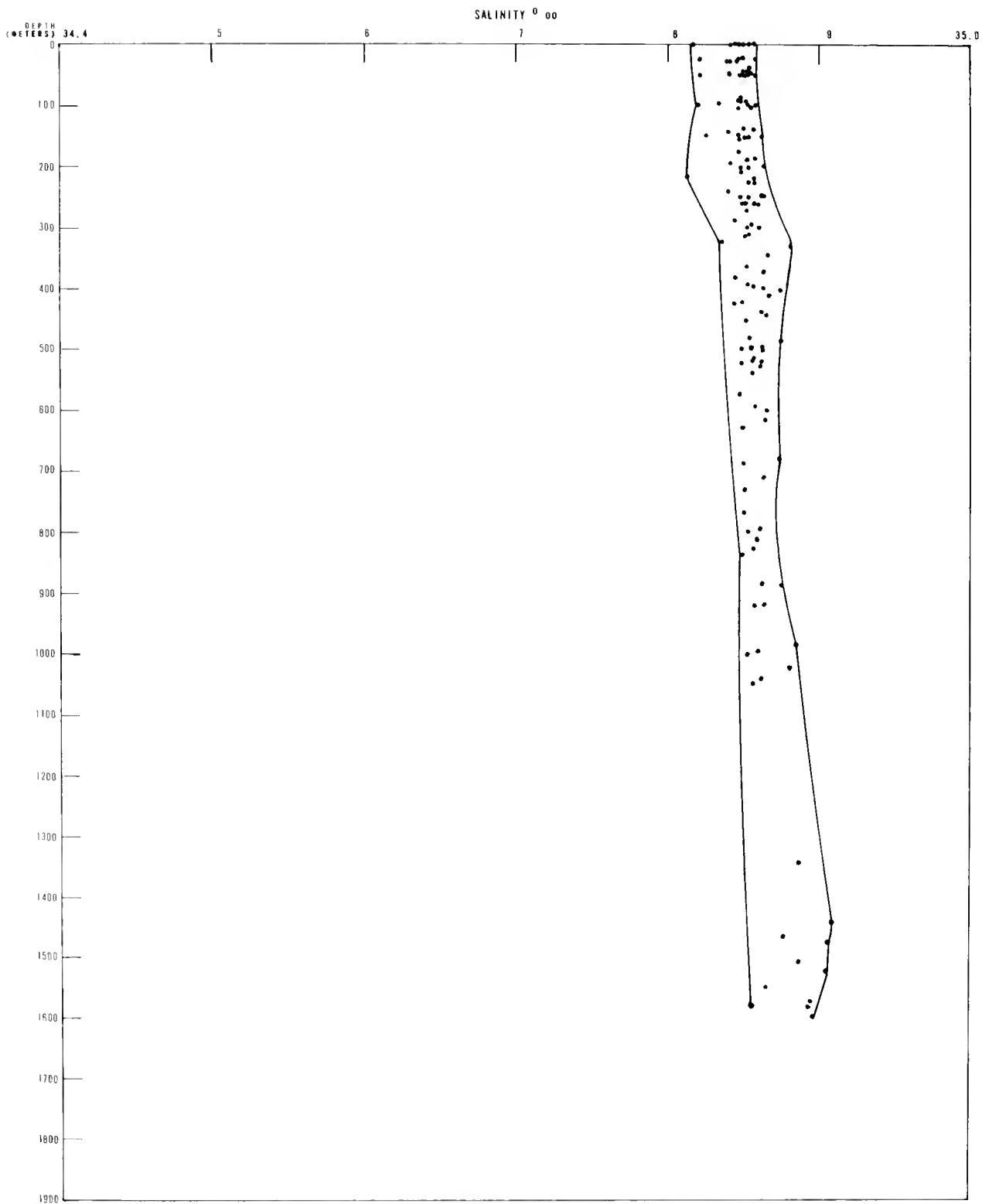


Figure 26. Envelope of salinity versus depth at oceanographic station taken by USCGC ESCANABA at Ocean Station BRAVO, 6-24 April 1967.

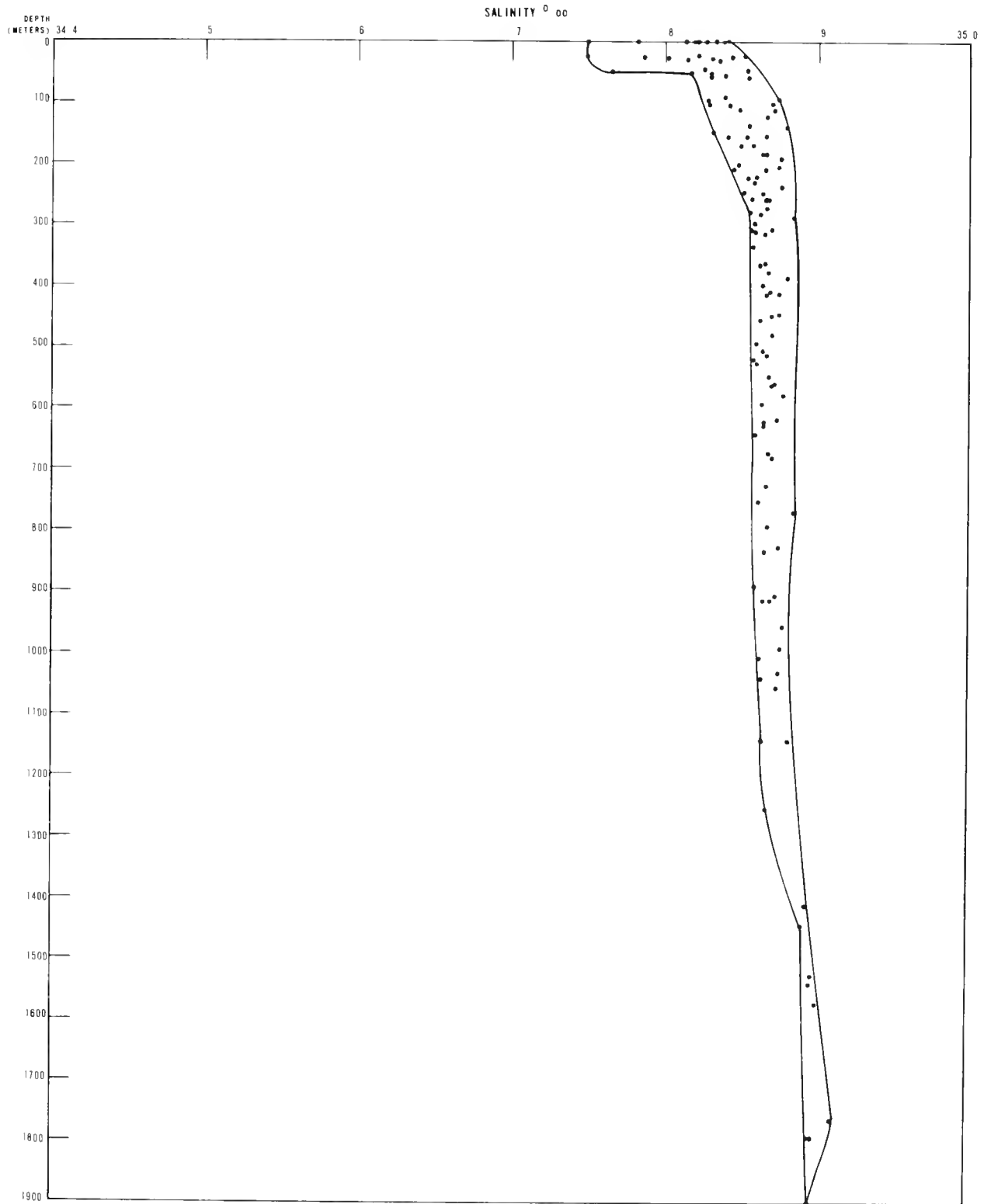


Figure 27. Envelope of salinity versus depth at oceanographic stations taken by USCGC SPENCER at Ocean Station BRAVO, 27 May-6 June 1967.

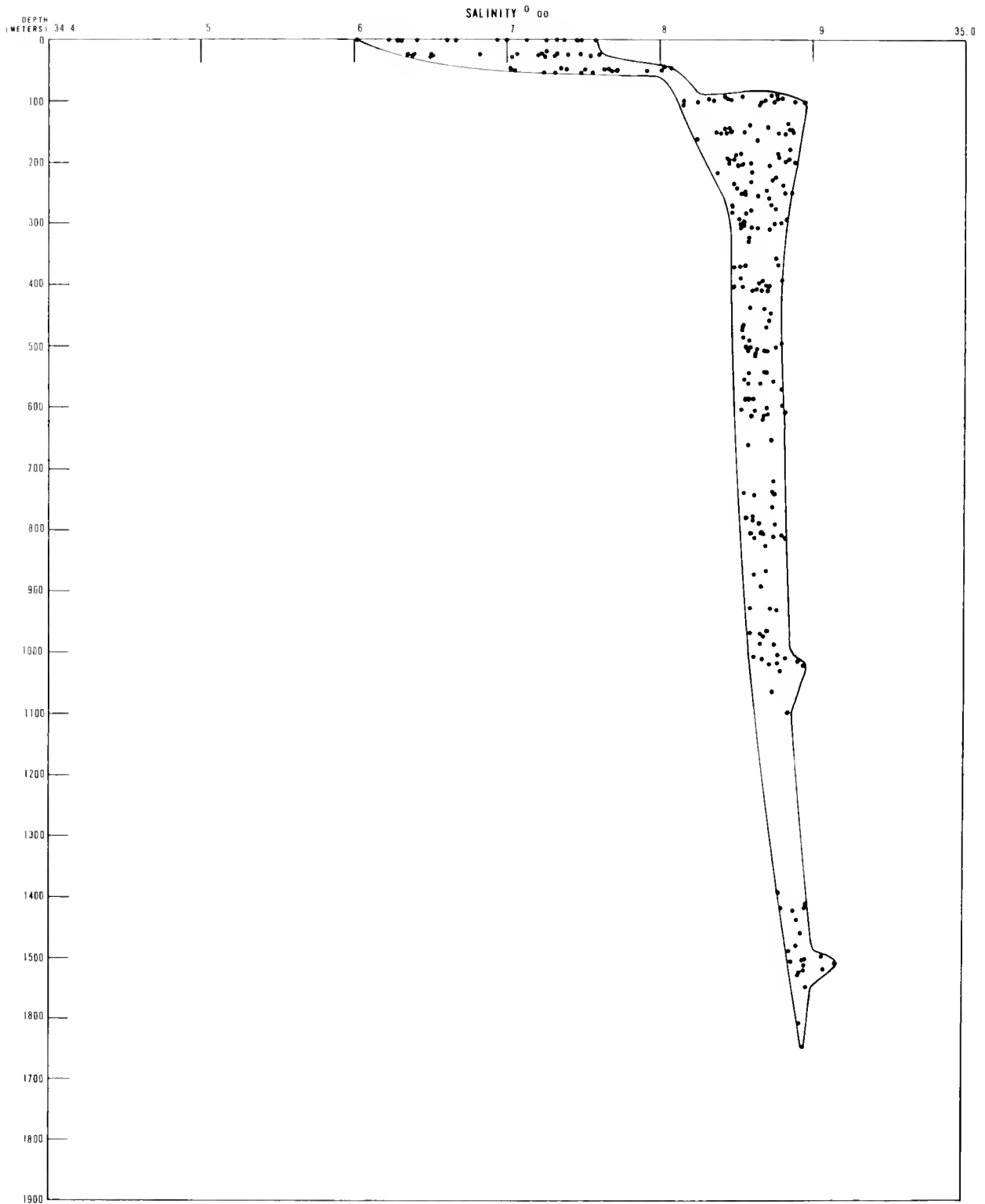


Figure 28. Envelope of salinity versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station BRAVO, 29 June-21 July 1967.

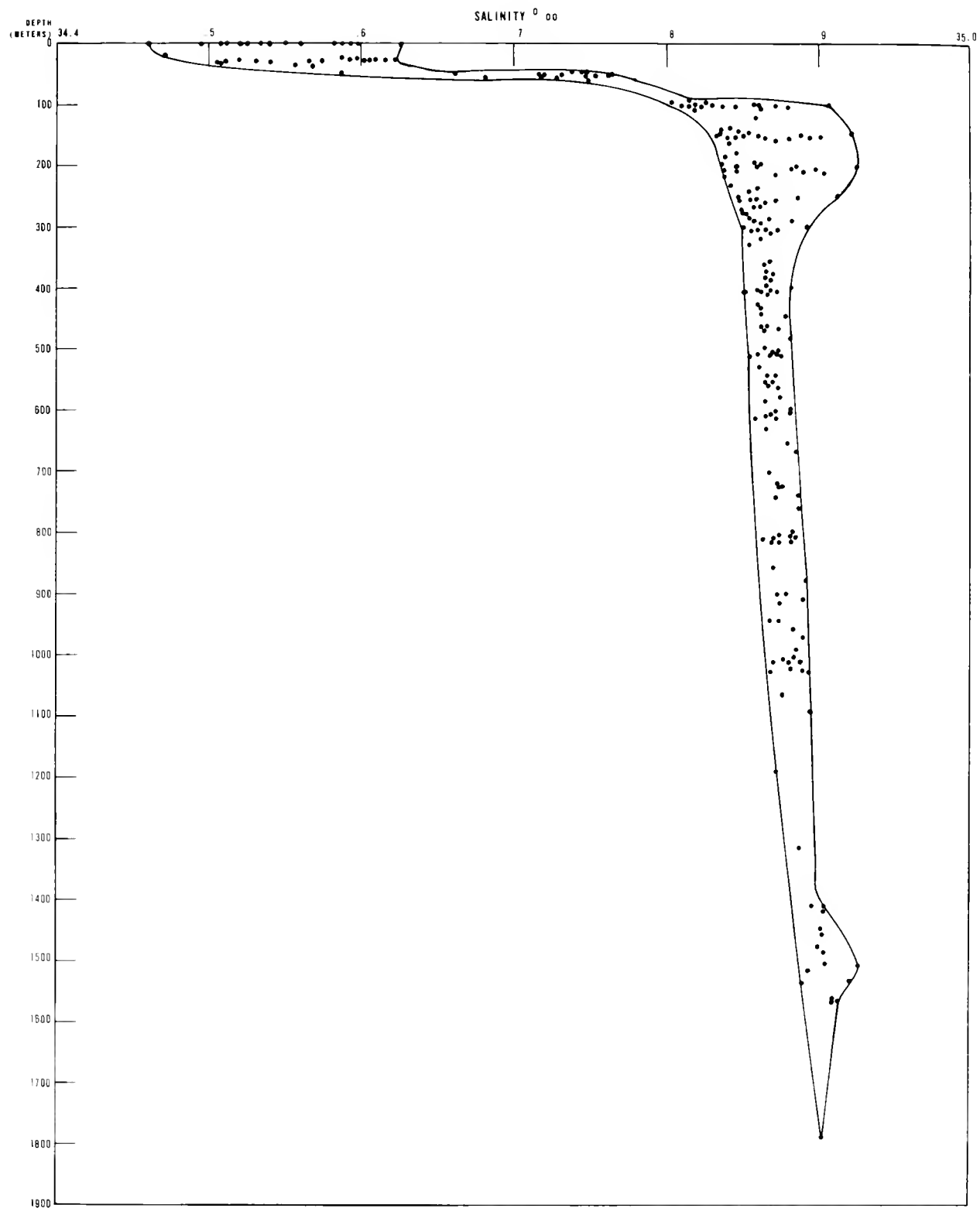


Figure 29. Envelope of salinity versus depth of oceanographic stations taken by USCGC McCULLOCH at Ocean Station BRAVO, 14 August-5 September 1967.

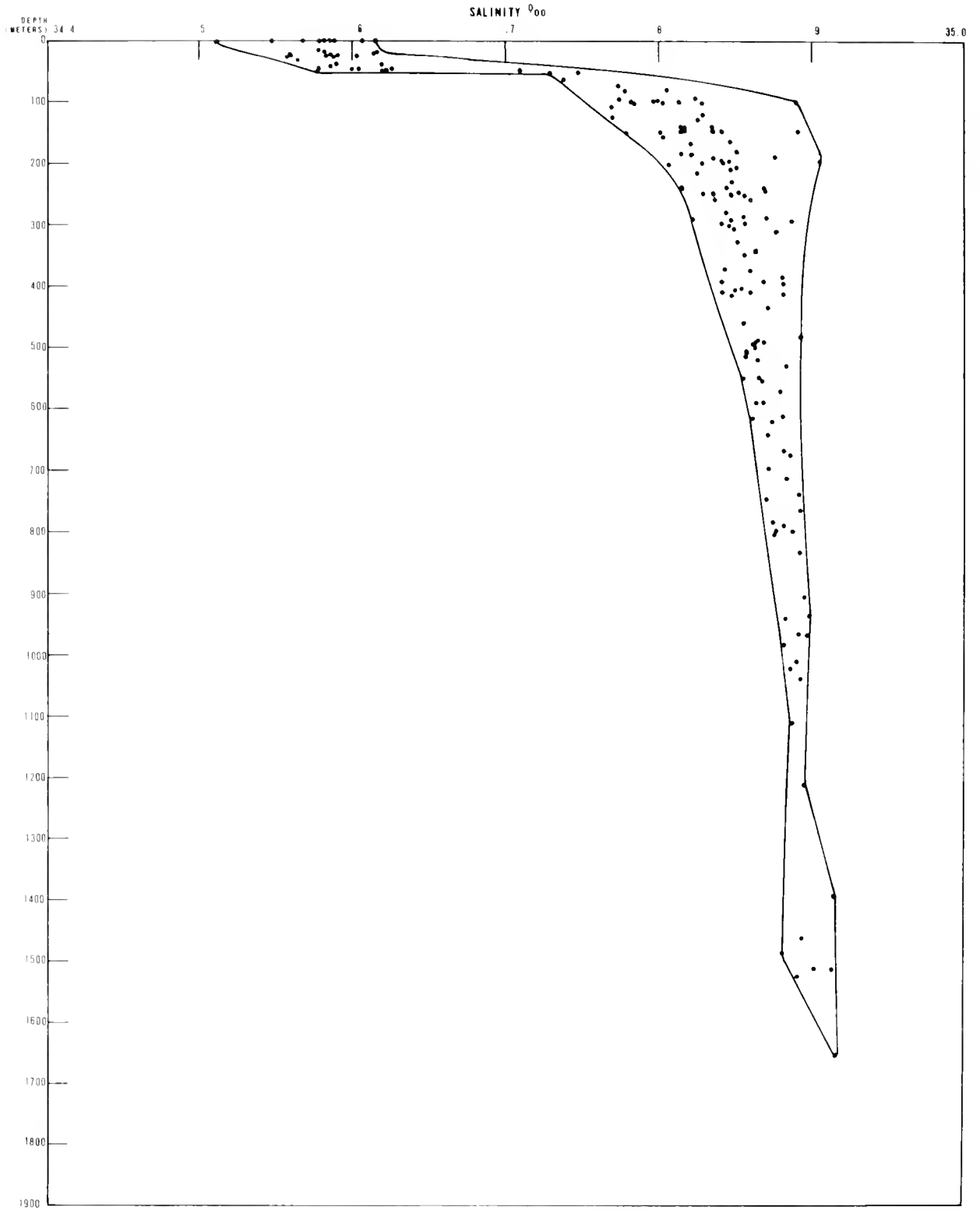


Figure 30. Envelope of salinity versus depth of oceanographic stations taken by USCGC SPENCER at Ocean Station BRAVO, 1-20 October 1967.

SALINITY VERSUS TIME AT SELECTED LEVELS AT OCEAN STATION BRAVO

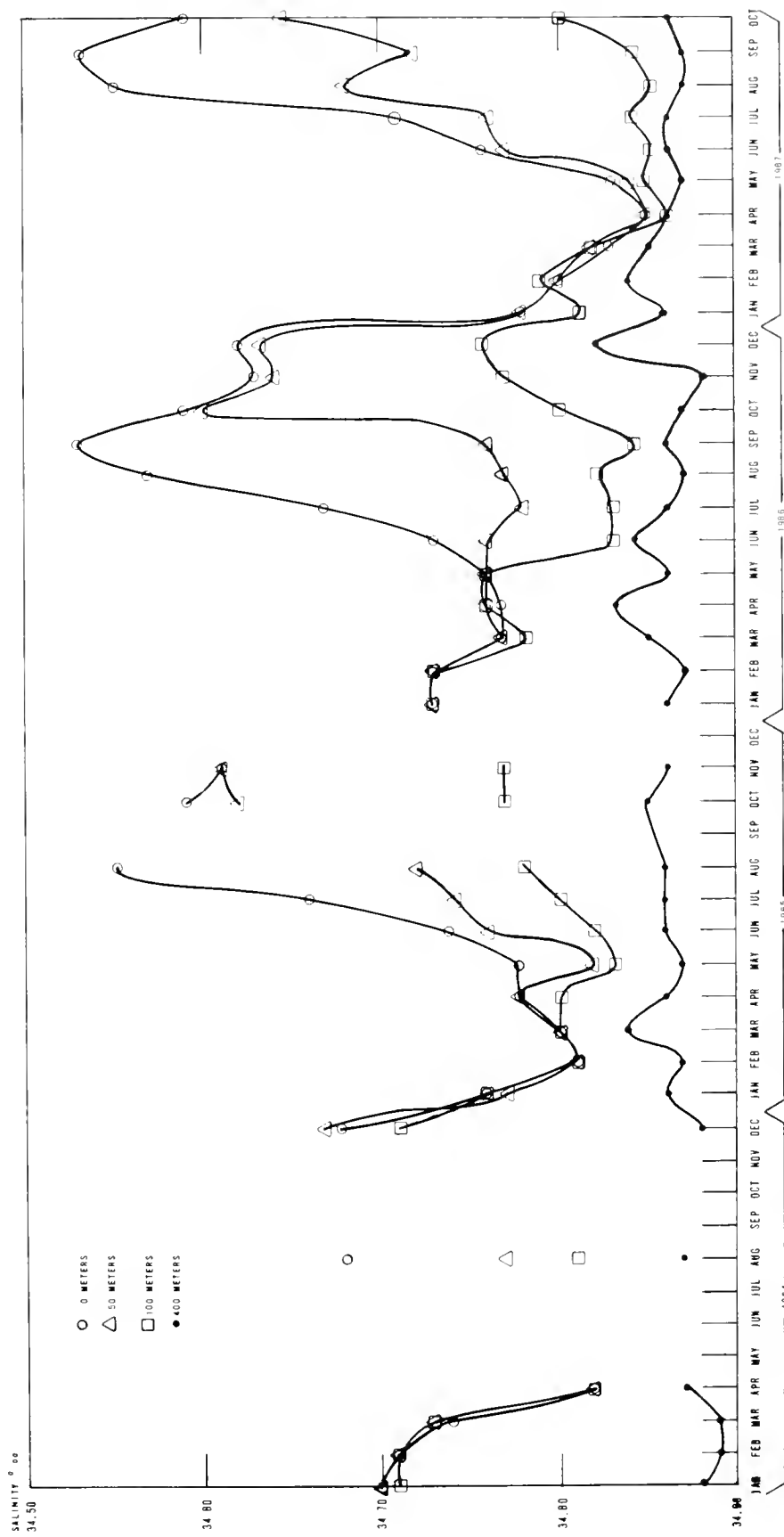


Figure 31. Monthly averages of salinity versus time at selected depths at Ocean Station BRAVO, January 1964–October 1967.

TEMPERATURE VERSUS TIME BY DEPTH AT SELECTED LEVELS AT OCEAN STATION BRAVO

1964 - 1967

TEMPERATURE °C
10

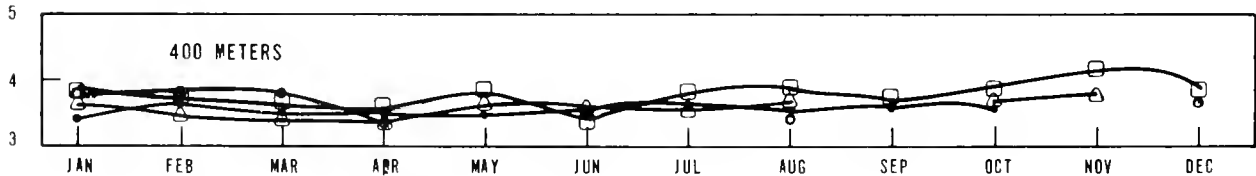
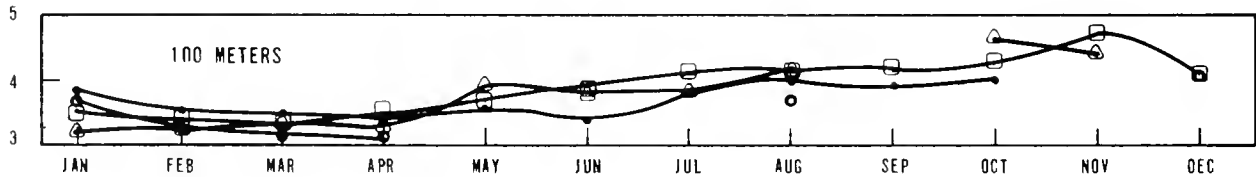
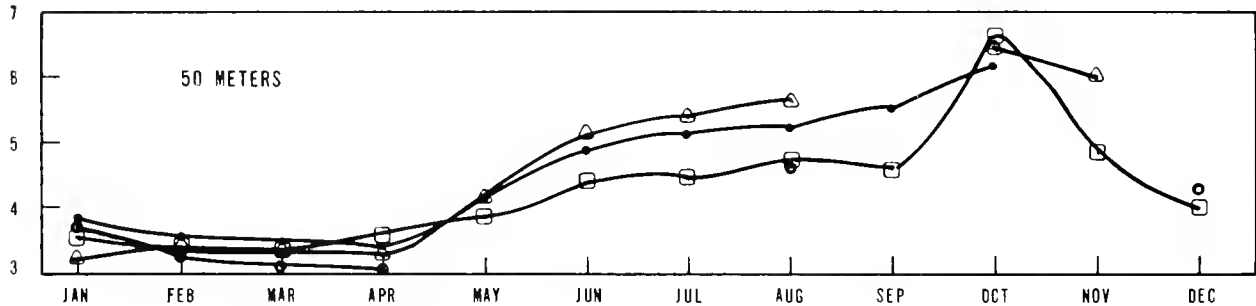
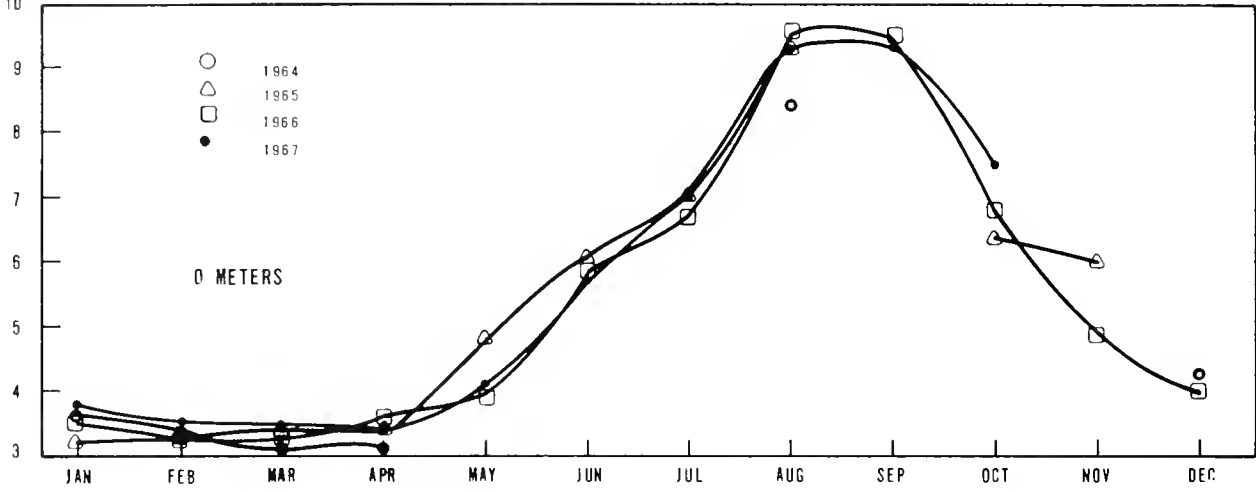


Figure 32. Monthly averages of water temperature versus time by depth at Ocean Station BRAVO, January 1964-October 1967.

SALINITY VERSUS TIME BY DEPTH AT SELECTED LEVELS AT OCEAN STATION BRAVO

1964 - 1967

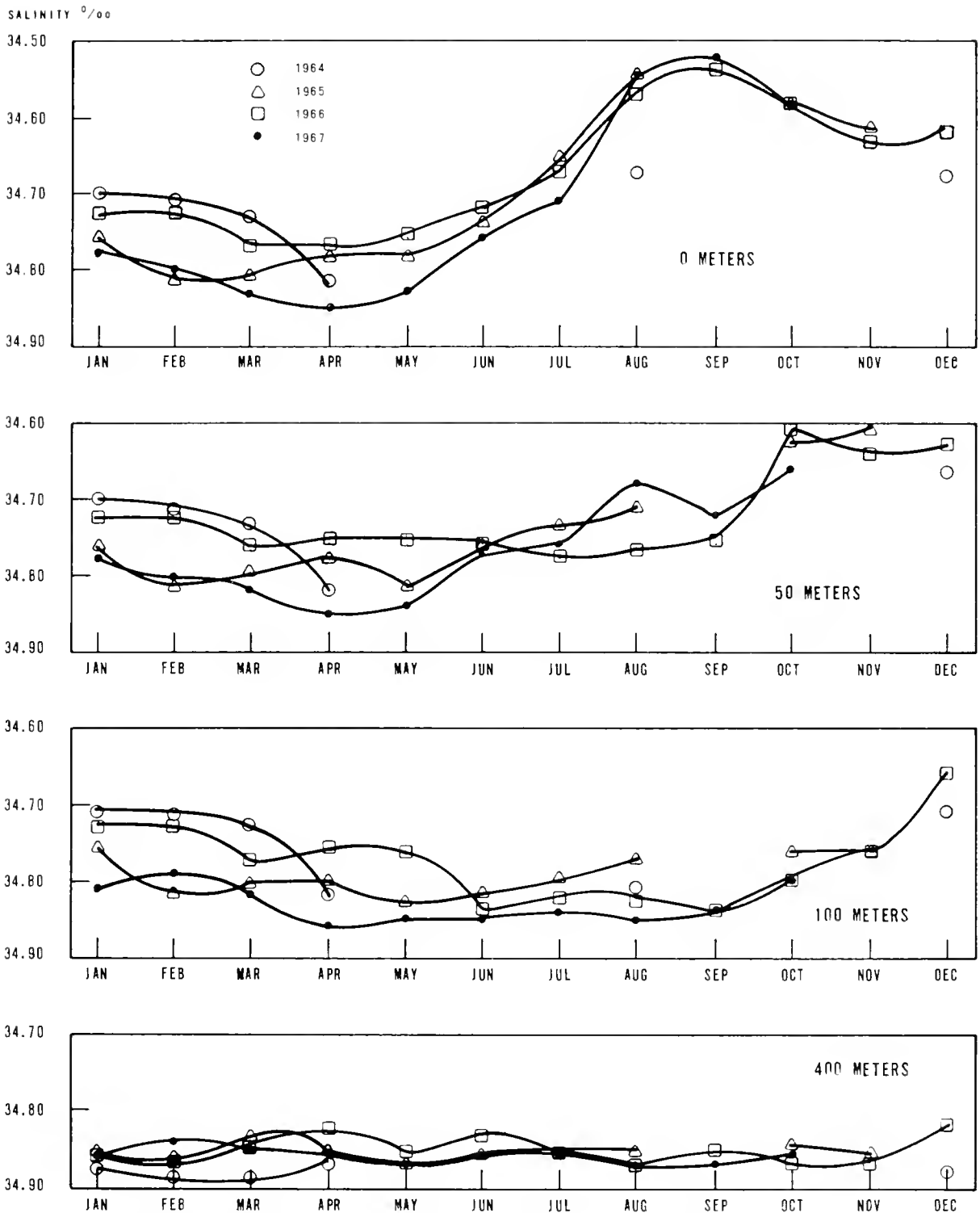


Figure 33. Monthly averages of salinity versus time by depth at Ocean Station BRAVO, January 1964–October 1967.

Oceanographic Station Data

TABLES

Notes on oceanographic data:

DU=USCGC DUANE

ML=USCGC McCULLOCH

HU=USCGC HUMBOLDT

BX=USCGC BIBB

EN=USCGC ESCANABA

SC=USCGC SPENCER

SB=USCGC SEBAGO

T=Thermometric depths

Q=Indicates value was noted as doubtful by originator

P=Indicates value has been designated as potentially Implausible by NODC

Weather Symbols=Reported in WMO scales (USWB 1960)

Explanation of Oceanographic Station Data

A. Description of Entries, Unit and Codes on NODC Station Listing

1. Surface Observations

<i>Entry</i>	<i>Description of Field</i>
NODC REF. ID. NO.	NODC reference identity number.
COUNTRY CODE	Indicates nationality of the institute or agency conducting the survey or expedition.
CRUISE NUMBER	A reference number assigned by NODC for storage-retrieval purposes. NODC Publication C-I, <i>Reference Source of Oceanographic Station Data</i> , give complete bibliographic and other pertinent information for each cruise.
SHIP CODE	Alphabetic representation of ship's name (or ICES numeric ship code).
LATITUDE	Degrees, minutes, and tenths of minutes, N or S.
LONGITUDE	Degrees, minutes, and tenths of minutes, E or W.
DRIFT INDICATOR	The letter D appears in this column if extensive drift occurred while on station.
MARSDEN SQUARE	
10°	Marsden square number according to the Marsden square system.
1°	The one-degree square number according to the Marsden square system.
STATION TIME (GMT)	Date and time given by the originator (GMT).
MONTH	Month (GMT).
DAY	Day (GMT).
HR. 1/10	GMT to nearest tenth of an hour.
YEAR	Year
ORIGINATOR'S CRUISE NUMBER	Alphabetic or alpha-numeric designator as assigned by the originator. If the year of the cruise forms part of the cruise numbering system, the year digits are found in preceding field.
STATION NUMBER	Originator's station number or designator.
DEPTH TO BOTTOM	Corrected or uncorrected sounding depth in meters.
MAX. DEPTH OF SAMPLES	Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.

<i>Entry</i>	<i>Description of Field</i>
WAVE OBSERVATIONS DIR.	Direction from which the dominant waves are coming, in tens of degrees, according to WMO Code 0885.
HGT.	Height of dominant waves according to WMO Code 1555.
PER.	Period of dominant waves according to WMO Code 3155.
SEA AMT.	Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).
WEATHER CODE	If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit entry indicates weather according to WMO Code 4677.
*INSTR./CLOUD	This field is used either for recording instrument code when electronically obtained data are being reported, or for reporting cloud type and cloud amount when conventional Nansen cast data are being reported.
*INSTR.	A two character code representing instrument package of system.
TYPE	Cloud type according to WMO Code 0500.
AMT.	Cloud amount according to WMO Code 2700.
NODC STATION NUMBER	Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity and Station numbers combined, uniquely define each station in the NODC archives.
*DT/*SU/D	This indicator specifies that the reported data have been obtained electronically rather than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically obtained serial data and specify that the data were taken while hoisting or lowering respectively.
WATER COLOR	Water color according to Forel-Ule Code.
TRANS. (m)	Water transparency in meters as determined by Secchi disc.
WIND DIR.	Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.
SPEED OR FORCE	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in Beaufort code.
BAROMETER (mbs)	Barometric pressure in millibars; tens, units, and tenths places only.
AIR TEMPERATURE C°	
DRY BULB	Dry bulb air temperature in degrees centigrade, to tenths.
WET BULD	Wet bulb air temperature in degrees centigrade, to tenths.
VIS. CODE	Visibility according to WMO Code 4300.
NUMBER OBS. LEVEL	The number of observed levels associated with the station.
SPECIAL OBSERVATIONS	Entries in this space vary with individual cruises or stations. Information concerning entries in this field can be requested from the NODC.

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

Table I. Observed and interpolated oceanographic data for stations taken by USCGC DUANE Ocean Station BRAVO, 8-28 October 1966, prepared from NODC listing No. 31-771 DU.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN NUMBER	MARS DEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR:1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA						
31	771	DU	56240N	050465W	186	60	10	08	10	07	1966	OSB	001	3566	18	25	4	4	X1	6	6	0001			
						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										
									24	520	956	061	039	6	14										
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ²	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ m/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C C								
		STD	0000	0614	3466	2729	0007938	0000	14752																
167		OBS	0000	0614	34661	2729			14752																
		STD	0010	0613	3466	2729	0007930	0008	14753																
		STD	0020	0613	3467	2729	0007920	0016	14755																
		STD	0030	0612	3467	2730	0007912	0024	14756																
167		OBS	0031	0612	34667	2730			14756																
		STD	0050	0562	3470	2738	0007089	0039	14740																
167		OBS	0063	0530	34721	2744			14729																
		STD	0075	0498	3475	2750	0006010	0055	14718																
		STD	0100	0446	3480	2760	0005097	0069	14702																
		STD	0125	0413	3484	2767	0004476	0081	14693																
167		OBS	0127	0411	34641	2767			14692																
		STD	0150	0413	3485	2767	0004426	0092	14697																
167		OBS	0190	0414	34872	2769			14704																
		STD	0200	0414	3487	2769	0004314	0114	14706																
		STD	0250	0411	3488	2770	0004280	0135	14713																
167		OBS	T0254	0410	34880	2770			14713																
		STD	0300	0400	3488	2771	0004212	0157	14716																
167		OBS	0315	0398	34879	2771			14718																
167		OBS	0379	0393	34877	2772			14727																
		STD	0400	0390	3487	2771	0004276	0199	14729																
		STD	0500	0375	3466	2772	0004265	0242	14739																
167		OBS	T0503	0375	34857	2772			14739																
		STD	0600	0362	3485	2773	0004273	0285	14750																
167		OBS	0627	0361	34653	2773			14754																
		STD	0700	0370	3488	2774	0004254	0327	14770																
167		OBS	T0751	0374	34888	2775			14780																
		STD	0800	0370	3489	2775	0004282	0370	14787																
		STD	0900	0363	3489	2776	0004295	0413	14601																
167		OBS	0995	0359	34886	2776			14815																
		STD	1000	0359	3489	2776	0004338	0456	14815																
		STD	1100	0358	3489	2776	0004400	0500	14832																
		STD	1200	0357	3489	2776	0004460	0544	14848																
167		OBS	T1238	0356	34888	2776			14854																
		STD	1300	0355	3489	2777	0004508	0589	14864																
		STD	1400	0354	3489	2777	0004576	0634	14881																
		STD	1500	0354	3490	2778	0004582	0680	14898																
		STD	1750	0352	3492	2779	0004607	0795	14939																
167		OBS	T1775	0352	34924	2780			14944																

REFERENCE		SHIP CODE	LATITUDE		LONGITUDE		DEPTH INCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
STAY CODE	ID. NO.		'	1/10	'	1/10		10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	771	DU	5629	N	05059	W	186	60	10	10	121	1966	05B	002	3450	06	29	4	3	X1	8	4	0002	

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	SPEED (kts)	DIR.		DRY BULB	WET BULB			
		10	S12	064	072	050	7	11	

MESSAGE TIME OF 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/C
		STD	0000	0694	3461	2714	0009333	0000	1 783								
121		OBS	0000	0694	34610	2714			14783								
		STD	0010	0693	3461	2714	0009340	0009	14784								
		STD	0020	0693	3461	2714	0009339	0019	14786								
121		OBS	0028	0692	34611	2714			14787								
		STD	0030	0692	3461	2714	0009346	0028	14787								
		STD	0050	0691	3461	2715	0009353	0047	14790								
121		OBS	0054	0691	34613	2715			14791								
		STD	0075	0547	3470	2740	0006945	0067	14738								
		STD	0100	0433	3478	2760	0005109	0082	14696								
121		OBS	0108	0410	34802	2764			14688								
		STD	0125	0413	3482	2765	0004621	0094	14692								
		STD	0150	0416	3484	2766	0004534	0106	14698								
121		OBS	0162	0418	34848	2767			14701								
		STD	0200	0408	3485	2768	0004446	0128	14703								
121		OBS	T0217	0404	34846	2768			14704								
		STD	0250	0399	3485	2769	0004378	0150	14707								
121		OBS	0266	0397	34852	2769			14709								
		STD	0300	0397	3486	2770	0004330	0172	14715								
121		OBS	0315	0396	34861	2770			14717								
		STD	0400	0386	3486	2771	0004300	0215	14727								
121		OBS	T0414	0385	34861	2771			14729								
		STD	0500	0378	3486	2772	0004306	0258	14740								
121		OBS	0517	0377	34861	2772			14742								
		STD	0600	0374	3487	2773	0004307	0301	14755								
121		OBS	T0620	0374	34869	2773			14758								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	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	
					10'	1'	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPI		AMT
31	771	DU	5640 N	05050 W			186	60	10	12	121	1966	058	003	3603	16	20	3	3	X2	2	8	0003

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		18	S25	196	072	056	7	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0709	3457	2709	0009814	0000	14788								
121		OBS	0000	0709	34572	2709			14788								
		STD	0010	0709	3457	2709	0009825	0010	14790								
		STD	0020	0708	3457	2709	0009828	0020	14791								
121		OBS	0026	0708	34573	2709			14792								
		STD	0030	0706	3457	2709	0009818	0029	14792								
		STD	0050	0697	3458	2711	0009713	0049	14792								
121		OBS	0050	0697	34575	2711			14792								
		STD	0075	0514	3472	2746	0006415	0069	14725								
		STD	0100	0406	3481	2765	0004604	0083	14685								
121		OBS	0101	0403	34814	2766			14684								
		STD	0125	0410	3483	2766	0004516	0094	14691								
		STD	0150	0417	3485	2767	0004462	0106	14698								
121		OBS	0152	0417	34853	2767			14699								
		STD	0200	0414	3487	2769	0004340	0128	14706								
121		OBS	T0205	0414	34873	2769			14707								
		STD	0250	0408	3488	2770	0004274	0149	14711								
121		OBS	0254	0407	34876	2770			14712								
		STD	0300	0403	3488	2771	0004248	0170	14718								
121		OBS	0304	0403	34880	2771			14718								
		STD	0400	0386	3487	2772	0004226	0213	14727								
121		OBS	T0405	0385	34870	2772			14727								
		STD	0500	0371	3485	2772	0004297	0255	14737								
121		OBS	0505	0370	34851	2772			14737								
		STD	0600	0365	3486	2773	0004301	0298	14751								
121		OBS	0605	0365	34855	2773			14752								
		STD	0700	0367	3487	2774	0004294	0341	14769								
		STD	0800	0369	3489	2775	0004291	0384	14786								
121		OBS	0806	0369	34886	2775			14787								
		STD	0900	0364	3488	2775	0004326	0427	14801								
		STD	1000	0358	3488	2776	0004368	0471	14815								
121		OBS	T1006	0358	34881	2776			14816								
		STD	1100	0357	3488	2776	0004416	0515	14831								
		STD	1200	0355	3489	2776	0004466	0559	14847								
		STD	1300	0354	3489	2777	0004514	0604	14864								
		STD	1400	0352	3489	2777	0004561	0649	14880								
		STD	1500	0351	3489	2777	0004608	0695	14896								
121		OBS	T1552	0350	34892	2777			14905								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DRIFT DIR	DRIFT SPEED	MARS DEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	TO. NO.						10"	1"	MO	DAY	HR,1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
31	771	DU	56235N	050520W			186	60	10	15	195	1966	058	004	3658	14	24	4	8	X2	7	8	0004		

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			
		23	512	112	056	044	7	14	

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0707	3460	2711	0009586	0000	14788								
195		OBS	0000	0707	34599	2711			14788								
		STD	0010	0707	3460	2711	0009597	0010	14790								
		STD	0020	0706	3460	2711	0009614	0019	14791								
195		OBS	0023	0706	34598	2711			14791								
		STD	0030	0706	3460	2711	0009648	0029	14793								
195		OBS	0045	0707	34591	2711			14795								
		STD	0050	0659	3462	2720	0008882	0047	14778								
		STD	0075	0478	3475	2752	0005789	0066	14710								
195		OBS	0090	0416	34810	2764			14688								
		STD	0100	0425	3483	2765	0004650	0079	14693								
		STD	0125	0439	3487	2766	0004524	0090	14704								
195		OBS	0135	0440	34875	2767			14706								
		STD	0150	0432	3487	2767	0004446	0101	14705								
195		OBS	T0177	0422	34871	2768			14705								
		STD	0200	0417	3487	2769	0004338	0123	14707								
195		OBS	0221	0414	34877	2770			14709								
		STD	0250	0411	3488	2770	0004310	0145	14713								
195		OBS	0266	0410	34875	2770			14715								
		STD	0300	0408	3488	2770	0004298	0167	14720								
195		OBS	T0350	0401	34882	2771			14725								
		STD	0400	0383	3487	2772	0004201	0209	14726								
195		OBS	0436	0375	34867	2773			14728								
		STD	0500	0374	3486	2772	0004270	0251	14738								
195		OBS	T0524	0373	34859	2772			14742								
		STD	0600	0370	3486	2773	0004294	0294	14753								
		STD	0700	0366	3487	2774	0004293	0337	14768								
195		OBS	0706	0366	34869	2774			14769								
		STD	0800	0366	3488	2775	0004296	0380	14785								
195		OBS	T0882	0366	34888	2775			14799								
		STD	0900	0366	3489	2775	0004322	0423	14802								
		STD	1000	0365	3489	2776	0004381	0467	14818								
		STD	1100	0363	3489	2776	0004433	0511	14834								
		STD	1200	0360	3489	2776	0004466	0555	14850								
		STD	1300	0356	3489	2777	0004491	0600	14865								
195		OBS	1369	0353	34895	2777			14875								

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH MDCR	MADDEN 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	* I/10	* I/10		10"	1"	MO	DAY	HR./10			CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
31	771	DU	56215N	050510W	186	60	10	17	159	1966	058	005	3612	36	33	2	2		X1	8	6	0005
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. (%)	DIR.	SPEED OF FORCE	BARO- METER (mb)	DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
								14	S03	173	050	039	8	19								
MESSENGER TIME OF HR / 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	CO ₂					
	121	STD	0000	0666	3458	2715	0009209	0000	14772													
		OBS	0000	0666	34578	2715			14772													
		STD	0010	0666	3458	2716	0009209	0009	14773													
		STD	0020	0666	3458	2716	0009225	0018	14775													
	121	OBS	0025	0666	34582	2716			14776													
		STD	0030	0666	3458	2716	0009213	0028	14777													
		STD	0050	0667	3459	2716	0009200	0046	14780													
	121	OBS	0052	0667	34592	2716			14781													
		STD	0075	0519	3471	2744	0006547	0066	14726													
		STD	0100	0416	3480	2763	0004782	0080	14689													
	121	OBS	0103	0408	34808	2765			14686													
		STD	0125	0406	3482	2766	0004549	0092	14689													
		STD	0150	0404	3484	2767	0004442	0103	14693													
	121	OBS	0155	0404	34839	2768			14694													
		STD	0200	0413	3487	2769	0004326	0125	14705													
	121	OBS	T0207	0415	34879	2770			14707													
		STD	0250	0428	3489	2769	0004357	0146	14720													
	121	OBS	0258	0429	34897	2769			14722													
		STD	0300	0421	3489	2770	0004340	0168	14725													
	121	OBS	0309	0419	34892	2770			14726													
		STD	0400	0392	3488	2772	0004223	0211	14730													
	121	OBS	T0409	0390	34875	2772			14730													
		STD	0500	0376	3486	2772	0004291	0254	14739													
	121	OBS	0510	0375	34855	2772			14740													
		STD	0600	0368	3487	2774	0004219	0296	14752													
	121	OBS	0611	0367	34872	2774			14754													
		STD	0700	0367	3488	2775	0004225	0338	14769													
		STD	0800	0368	3489	2775	0004243	0381	14786													
	121	OBS	0812	0368	34891	2775			14788													
		STD	0900	0364	3489	2776	0004294	0423	14801													
		STD	1000	0359	3489	2776	0004342	0467	14815													
	121	OBS	T1012	0358	34884	2776			14817													
		STD	1100	0357	3489	2776	0004367	0510	14831													
		STD	1200	0355	3489	2777	0004431	0554	14848													
		STD	1300	0354	3489	2777	0004495	0599	14864													
		STD	1400	0353	3490	2778	0004484	0644	14880													
		STD	1500	0351	3490	2778	0004546	0689	14896													
	121	OBS	1504	0351	34901	2778			14897													
		STD	1750	0350	3491	2779	0004647	0804	14938													
		STD	2000	0348	3492	2780	0004747	0921	14980													
	159	OBS	T2008	0348	34924	2780			14981													
		STD	2500	0316	3493	2783	0004608	1155	15052													
	159	OBS	2512	0315	34926	2783			15054													
		STD	3000	0283	3493	2787	0004405	1380	15124													
	159	OBS	T3016	0281	34931	2787			15126													
	159	OBS	3472	0206	34946	2795			15174													
	159	OBS	3574	0184	34954	2797			15183													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	771	OU	5628 N	05112 W		186	61	10	19	125	1966	OSB	006	3612	14	12	4	4	X2	5	8	0006	

WATER		WIND		BARO-METER (mbx)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		10	S15	095	078	072	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	S Δ ρ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S.C.C.
		STD	0000	0661	3457	2715	0009213	0000	14770								
125		OBS	0000	0661	34569	2715			14770								
		STD	0010	0661	3457	2715	0009222	0009	14771								
		STD	0020	0660	3457	2715	0009240	0018	14772								
125		OBS	0024	0660	34568	2715			14773								
		STD	0030	0660	3457	2716	0009227	0028	14774								
125		OBS	0048	0659	34579	2716			14777								
		STD	0050	0644	3459	2719	0008914	0046	14771								
		STD	0075	0489	3474	2750	0005985	0064	14715								
125		OBS	0096	0411	34814	2765			14687								
		STD	0100	0411	3482	2765	0004580	0078	14687								
		STD	0125	0411	3484	2767	0004455	0089	14692								
125		OBS	0144	0409	34847	2768			14694								
		STD	0150	0407	3485	2768	0004364	0100	14694								
125		OBS	T0193	0400	34853	2769			14698								
		STD	0200	0400	3486	2770	0004265	0122	14700								
125		OBS	0240	0399	34876	2771			14706								
		STD	0250	0398	3488	2771	0004173	0143	14707								
125		OBS	0287	0394	34876	2772			14712								
		STD	0300	0394	3488	2772	0004179	0164	14714								
125		OBS	T0379	0388	34877	2772			14724								
		STD	0400	0385	3488	2773	0004170	0205	14727								
125		OBS	0470	0376	34879	2774			14734								
		STD	0500	0374	3488	2774	0004143	0247	14739								
125		OBS	0560	0370	34874	2774			14747								
		STD	0600	0367	3488	2774	0004171	0288	14752								
		STD	0700	0362	3488	2775	0004195	0330	14767								
125		OBS	0742	0360	34877	2775			14773								
		STD	0800	0359	3488	2775	0004213	0372	14782								
		STD	0900	0358	3489	2776	0004233	0415	14799								
125		OBS	T0922	0358	34889	2776			14802								
		STD	1000	0357	3489	2776	0004287	0457	14815								
		STD	1100	0356	3490	2777	0004284	0500	14831								
		STD	1200	0355	3490	2777	0004353	0543	14848								
		STD	1300	0354	3490	2778	0004422	0587	14864								
125		OBS	1378	0353	34903	2778			14877								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
31	771	DU	5627 N	05022 W	186 60	10	23	127	1966	OSB	007	3603	16	24	3	3	X1	3 5	0007	

WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
			22	505	244	072	050	7	14

MESSNGR TIME HR 1/10	CASI 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 $\mu\text{g} - \text{dl/l}$	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 CC
		STD	0000	0683	3458	2713	0009421	0000	14778								
127		OBS	0000	0683	34579	2713			14778								
		STD	0010	0680	3458	2714	0009390	0009	14779								
		STD	0020	0678	3458	2714	0009380	0019	14780								
127		OBS	0027	0677	34581	2714			14780								
		STD	0030	0678	3458	2714	0009381	0028	14781								
		STD	0050	0681	3458	2714	0009461	0047	14786								
127		OBS	0052	0681	34580	2714			14786								
		STD	0075	0531	3468	2741	0006909	0067	14731								
		STD	0100	0425	3476	2759	0005175	0083	14692								
127		OBS	0104	0413	34771	2761			14688								
		STD	0125	0406	3480	2764	0004704	0095	14689								
		STD	0150	0400	3482	2766	0004517	0106	14691								
127		OBS	0156	0399	34828	2767			14692								
		STD	0200	0397	3484	2768	0004387	0129	14698								
127		OBS	T0209	0397	34845	2769			14700								
		STD	0250	0396	3486	2770	0004272	0150	14706								
127		OBS	0266	0395	34861	2770			14708								
		STD	0300	0394	3486	2771	0004269	0172	14714								
127		OBS	0324	0393	34866	2771			14717								
		STD	0400	0381	3487	2772	0004187	0214	14725								
127		OBS	T0438	0377	34870	2773			14729								
		STD	0500	0374	3487	2773	0004180	0256	14738								
127		OBS	0550	0372	34874	2774			14746								
		STD	0600	0372	3488	2774	0004225	0298	14754								
127		OBS	0660	0371	34877	2774			14764								
		STD	0700	0368	3488	2775	0004232	0340	14769								
		STD	0800	0363	3488	2775	0004261	0383	14784								
127		OBS	0881	0360	34881	2775			14796								
		STD	0900	0360	3488	2776	0004294	0425	14799								
		STD	1000	0358	3488	2776	0004341	0469	14815								
		STD	1100	0356	3489	2776	0004379	0512	14831								
127		OBS	T1102	0356	34887	2776			14831								
		STD	1200	0355	3489	2777	0004427	0556	14847								
		STD	1300	0353	3489	2777	0004483	0601	14863								
		STD	1400	0352	3490	2778	0004478	0646	14880								
		STD	1500	0352	3490	2778	0004557	0691	14897								
127		OBS	1650	0351	34907	2778			14922								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MERSA MILES	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
31	771	OU	5622 N	051085W	186	61	10	24	131	1966	OSB	008	365#	15	13	2	4	X2	5	8	0008	

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. OBTMS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULR	WET RULR			
			16	506	295	078	067	7	14

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDHALT-10 ³	Σ Δ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C
		STD	0000	0664	3458	2716	0009161	0000	14771								
131		OBS	0000	0664	34581	2716			14771								
		STD	0010	0663	3458	2716	0009164	0009	14772								
		STD	0020	0661	3458	2716	0009161	0018	14773								
131		OBS	0025	0660	34580	2716			14773								
		STD	0030	0659	3458	2717	0009140	0027	14774								
131		OBS	0049	0654	34583	2717			14775								
		STD	0050	0647	3459	2719	0008952	0046	14772								
		STD	0075	0494	3472	2748	0006191	0064	14716								
131		OBS	0098	0408	34798	2764			14685								
		STD	0100	0407	3480	2764	0004690	0078	14685								
		STD	0125	0401	3480	2765	0004653	0090	14687								
131		OBS	0147	0397	34805	2766			14689								
		STD	0150	0397	3481	2766	0004583	0101	14689								
		STD	0200	0395	3484	2768	0004378	0124	14697								
131		OBS	T0201	0395	34839	2768			14697								
131		OBS	0246	0398	34847	2769			14706								
		STD	0250	0398	3485	2769	0004370	0146	14707								
131		OBS	0295	0401	34875	2771			14716								
		STD	0300	0400	3488	2771	0004250	0167	14716								
131		OBS	T0392	0390	34870	2771			14727								
		STD	0400	0389	3487	2772	0004265	0210	14728								
131		OBS	0490	0379	34852	2771			14739								
		STD	0500	0379	3486	2772	0004324	0253	14740								
131		OBS	0589	0376	34877	2773			14754								
		STD	0600	0375	3488	2774	0004243	0295	14756								
		STD	0700	0369	3488	2774	0004258	0338	14770								
131		OBS	0787	0364	34879	2775			14782								
		STD	0800	0364	3488	2775	0004273	0381	14784								
		STD	0900	0360	3489	2776	0004275	0423	14799								
131		OBS	T0985	0358	34889	2776			14813								
		STD	1000	0358	3489	2776	0004306	0466	14815								
		STD	1100	0356	3489	2777	0004350	0510	14831								
		STD	1200	0354	3489	2777	0004393	0553	14847								
		STD	1300	0353	3490	2777	0004447	0597	14863								
		STD	1400	0353	3490	2777	0004505	0642	14880								
131		OBS	1471	0353	34899	2778			14892								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	CHIT INDEX	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER 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	
31	771	DU	56183N	051122W	186	61	10	25	120	1966	058	009	3603	14	14	2	3		X1	6	5	0009	

WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB			
		18	S13	261	083	072	7	14

MESSNGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	$\frac{\Delta \rho}{\rho}$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dt/l	TOTAL-P μg - dt/l	NO ₂ -N μg - dt/l	NO ₃ -N μg - dt/l	SiO ₄ -Si μg - dt/l	pH	CHLOROPHYLL
		STD	0000	0676	3456	2713	0009457	0000	14775								
120		OBS	0000	0676	3456.2	2713			14775								
		STD	0010	0674	3456	2713	0009454	0009	14776								
		STD	0020	0673	3456	2713	0009464	0019	14777								
120		OBS	0024	0672	34560	2713			14778								
		STD	0030	0672	3456	2713	0009452	0028	14778								
120		OBS	0048	0670	34564	2714			14781								
		STD	0050	0654	3458	2717	0009116	0047	14775								
		STD	0075	0489	3471	2748	0006210	0066	14714								
120		OBS	0095	0410	34784	2763			14686								
		STD	0100	0410	3479	2763	0004796	0080	14687								
		STD	0125	0411	3481	2765	0004676	0092	14691								
120		OBS	0143	0411	34833	2766			14695								
		STD	0150	0418	3484	2766	0004553	0103	14699								
120		OBS	T0191	0434	34879	2768			14713								
		STD	0200	0425	3487	2768	0004453	0126	14710								
120		OBS	0236	0403	34845	2768			14707								
		STD	0250	0403	3485	2769	0004420	0148	14709								
120		OBS	0280	0403	34858	2769			14714								
		STD	0300	0403	3487	2770	0004319	0170	14718								
120		OBS	T0369	0399	34887	2772			14728								
		STD	0400	0390	3488	2772	0004201	0212	14729								
120		OBS	0461	0378	34875	2773			14734								
		STD	0500	0376	3488	2773	0004180	0254	14739								
120		OBS	0552	0373	34876	2774			14747								
		STD	0600	0373	3488	2774	0004199	0296	14755								
		STD	0700	0371	3488	2774	0004265	0339	14770								
120		OBS	0735	0370	34884	2775			14776								
		STD	0800	0368	3489	2775	0004244	0381	14786								
		STD	0900	0365	3489	2776	0004296	0424	14801								
120		OBS	T0918	0364	34891	2776			14804								
		STD	1000	0362	3489	2776	0004330	0467	14817								
		STD	1100	0359	3489	2777	0004364	0510	14832								
		STD	1200	0356	3490	2777	0004395	0554	14848								
		STD	1300	0354	3490	2777	0004437	0598	14864								
120		OBS	1380	0352	34899	2778			14876								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
31	771	00	56277N	051148W	186 61	10	26	129	1966	058	010	3475	15	15	3	3		X4	7	8	0010
WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
COLOR CODE		DIR.		SPEED OF FORCE (mbal)		DRY BULB		WET BULB		VIS CODE											
		15		S16		142		078 072		6 14											

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	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 C
		STD	0000	0686	3456	2711	0009594	0000	14779								
129		OBS	0000	0686	34561	2711			14779								
		STD	0010	0684	3456	2712	0009591	0010	14780								
		STD	0020	0683	3456	2712	0009594	0019	14781								
129		OBS	0025	0682	34559	2712			14782								
		STD	0030	0681	3456	2712	0009586	0029	14782								
129		OBS	0049	0678	34565	2713			14784								
		STD	0050	0669	3457	2714	0009384	0048	14781								
		STD	0075	0494	3471	2747	0006265	0067	14716								
129		OBS	0099	0398	34798	2765			14681								
		STD	0100	0399	3480	2765	0004608	0081	14682								
		STD	0125	0413	3483	2766	0004551	0092	14692								
129		OBS	0148	0419	34851	2767			14699								
		STD	0150	0419	3485	2767	0004481	0104	14699								
129		OBS	T0198	0411	34852	2768			14704								
		STD	0200	0411	3485	2768	0004433	0126	14704								
129		OBS	0247	0407	34871	2770			14711								
		STD	0250	0407	3487	2770	0004305	0148	14711								
129		OBS	0295	0401	34875	2771			14716								
		STD	0300	0401	3488	2771	0004260	0169	14717								
129		OBS	T0390	0392	34875	2772			14728								
		STD	0400	0390	3487	2771	0004276	0212	14729								
129		OBS	0486	0378	34863	2772			14738								
		STD	0500	0377	3486	2772	0004272	0255	14740								
129		OBS	0582	0372	34867	2773			14751								
		STD	0600	0372	3487	2773	0004277	0297	14754								
		STD	0700	0372	3487	2774	0004321	0340	14771								
129		OBS	0777	0370	34879	2774			14783								
		STD	0800	0369	3488	2774	0004330	0384	14786								
		STD	0900	0363	3488	2775	0004346	0427	14800								
129		OBS	T0972	0360	34881	2775			14811								
		STD	1000	0359	3488	2776	0004369	0471	14815								
		STD	1100	0356	3489	2776	0004394	0514	14831								
		STD	1200	0353	3489	2777	0004418	0558	14847								
		STD	1300	0352	3489	2777	0004471	0603	14863								
		STD	1400	0352	3489	2777	0004529	0648	14860								
129		OBS	1459	0352	34895	2777			14890								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER FOOT	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TPP	
31	771	DU	5619 N	05110 W	186	61	10	28	179	1966	058	011	3640	13	28	3	2		X2	6	8		0011

WATER		WIND		AIR TEMP. °C		BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	DRY BULB	WET BULB						
		24	515	196	044	033	7	14			

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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	X C C
		STD	0000	0642	3457	2718	0008935	0000	14762								
179		OBS	0000	0642	34574	2718			14762								
		STD	0010	0642	3457	2718	0008950	0009	14764								
		STD	0020	0642	3457	2718	0008964	0018	14765								
179		OBS	0024	0642	34574	2718			14766								
		STD	0030	0642	3457	2718	0008979	0027	14767								
179		OBS	0048	0642	34573	2718			14770								
		STD	0050	0626	3459	2722	0008688	0045	14764								
		STD	0075	0466	3472	2751	0005884	0063	14705								
179		OBS	0092	0403	34777	2763			14682								
		STD	0100	0403	3479	2764	0004728	0076	14684								
		STD	0125	0405	3481	2765	0004614	0088	14689								
179		OBS	0133	0405	34816	2766			14690								
		STD	0150	0405	3483	2767	0004493	0099	14693								
179		OBS	0176	0405	34842	2768			14698								
		STD	0200	0406	3486	2769	0004329	0121	14702								
179		OBS	0218	0407	34862	2769			14706								
		STD	0250	0403	3486	2769	0004330	0143	14709								
179		OBS	0259	0402	34862	2770			14710								
		STD	0300	0401	3487	2770	0004298	0164	14717								
179		OBS	T0344	0398	34877	2771			14723								
		STD	0400	0390	3487	2771	0004276	0207	14729								
179		OBS	0429	0387	34865	2771			14732								
		STD	0500	0380	3486	2772	0004312	0250	14741								
179		OBS	T0512	0379	34863	2772			14742								
		STD	0600	0369	3486	2773	0004297	0293	14753								
179		OBS	0666	0365	34860	2773			14762								
		STD	0700	0365	3487	2774	0004277	0336	14768								
		STD	0800	0367	3488	2775	0004303	0379	14785								
179		OBS	T0825	0367	34881	2775			14790								
		STD	0900	0367	3488	2775	0004378	0422	14802								
		STD	1000	0365	3488	2775	0004440	0466	14818								
		STD	1100	0362	3488	2775	0004481	0511	14833								
		STD	1200	0358	3488	2776	0004508	0556	14849								
179		OBS	T1273	0354	34884	2776			14859								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER				SEA
31	819	ML	56315N	050598W		186	60	11	28	147	1966	822	005	3621	15	18	2	2	X2	5	8	0005

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		35	S05	260	056	044	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\frac{\Delta \sigma}{\sigma} \times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STD	0000	0483	3462	2741	0006741	0000	14698								
147		OBS	0000	0483	34619	2741			14698								
		STD	0010	0482	3462	2742	0006734	0007	14699								
		STD	0020	0481	3462	2742	0006734	0013	14701								
147		OBS	0026	0480	34621	2742			14701								
		STD	0030	0480	3462	2742	0006709	0020	14702								
		STD	0050	0478	3463	2743	0006663	0034	14704								
147		OBS	0052	0478	34631	2743			14705								
		STD	0075	0475	3466	2746	0006430	0050	14708								
		STD	0100	0471	3472	2751	0005970	0065	14711								
147		OBS	0103	0471	34730	2752			14712								
		STD	0125	0482	3486	2761	0005069	0079	14722								
		STD	0150	0495	3495	2766	0004569	0091	14732								
147		OBS	0154	0497	34956	2767			14734								
		STD	0200	0481	3494	2767	0004545	0114	14734								
147		OBS	T0206	0479	34939	2767			14735								
		STD	0250	0458	3492	2768	0004493	0137	14733								
147		OBS	0257	0455	34913	2768			14733								
		STD	0300	0436	3490	2769	0004452	0159	14732								
147		OBS	0309	0433	34894	2769			14732								
		STD	0400	0412	3488	2770	0004417	0203	14738								
147		OBS	T0411	0410	34881	2770			14739								
		STD	0500	0398	3488	2771	0004382	0247	14749								
147		OBS	0513	0396	34880	2772			14750								
		STD	0600	0382	3487	2772	0004373	0291	14758								
147		OBS	T0616	0380	34866	2772			14760								
		STD	0700	0377	3487	2773	0004407	0335	14773								
		STD	0800	0372	3488	2774	0004401	0379	14787								
147		OBS	0821	0371	34876	2774			14791								
		STD	0900	0366	3488	2774	0004411	0423	14802								
		STD	1000	0361	3488	2775	0004430	0467	14816								
147		OBS	T1022	0360	34877	2775			14820								
		STD	1100	0359	3488	2775	0004464	0512	14832								
		STD	1200	0357	3488	2776	0004529	0557	14848								
		STD	1300	0356	3488	2776	0004590	0602	14864								
		STD	1400	0354	3488	2776	0004651	0649	14880								
		STD	1500	0353	3488	2776	0004711	0695	14897								
147		OBS	T1538	0352	34883	2776			14903								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICIA	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SFA	TYPE	
31	819	ML	56325N	051152W		186	61	11	29	125	1966	822	006	3621	29	10	2	0	X9	X19		0006

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			
		10	520	210	044	039	3	19	

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _T	S 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	3 C C
		STD	0000	0438	3463	2747	0006168	0000	14680								
125		OBS	0000	0438	34632	2747			14680								
		STD	0010	0437	3463	2748	0006157	0006	14681								
		STD	0020	0435	3463	2748	0006153	0012	14682								
125		OBS	0029	0434	34634	2748			14683								
		STD	0030	0434	3463	2748	0006144	0018	14683								
		STD	0050	0436	3464	2749	0006111	0031	14687								
125		OBS	0057	0437	34647	2749			14689								
		STD	0075	0424	3470	2754	0005590	0045	14687								
		STD	0100	0413	3477	2761	0004976	0059	14687								
125		OBS	0113	0412	34796	2763			14690								
		STD	0125	0420	3482	2764	0004699	0071	14695								
		STD	0150	0431	3486	2766	0004540	0082	14704								
125		OBS	0168	0435	34872	2767			14709								
		STD	0200	0429	3487	2768	0004466	0105	14712								
125		OBS	T0221	0424	34876	2768			14713								
		STD	0250	0416	3487	2769	0004408	0127	14715								
125		OBS	0274	0410	34866	2769			14716								
		STD	0300	0405	3486	2769	0004385	0149	14718								
125		OBS	0328	0400	34861	2770			14721								
		STD	0400	0394	3486	2770	0004386	0193	14730								
125		OBS	T0435	0390	34861	2771			14734								
		STD	0500	0381	3486	2772	0004346	0236	14741								
125		OBS	0543	0376	34860	2772			14746								
		STD	0600	0370	3485	2772	0004389	0280	14755								
125		OBS	T0651	0366	34848	2772			14760								
		STD	0700	0366	3486	2773	0004360	0324	14768								
		STD	0800	0367	3487	2774	0004378	0368	14785								
125		OBS	0874	0367	34875	2774			14798								
		STD	0900	0366	3488	2774	0004418	0411	14802								
		STD	1000	0362	3488	2775	0004449	0456	14817								
125		OBS	T1097	0359	34876	2775			14832								
		STD	1100	0359	3488	2775	0004496	0501	14832								
		STD	1200	0358	3488	2775	0004559	0546	14848								
		STD	1300	0357	3488	2775	0004621	0592	14865								
		STD	1400	0356	3488	2776	0004682	0638	14881								
		STD	1500	0354	3488	2776	0004729	0685	14897								
167		OBS	T1653	0351	34881	2776			14922								
125		OBS	T1697	0350	34898	2778			14929								
		STD	1750	0350	3490	2778	0004724	0803	14938								
		STD	2000	0349	3491	2779	0004826	0923	14980								
167		OBS	T2121	0348	34915	2779			15001								
		STD	2500	0323	3493	2783	0004681	1161	15055								
167		OBS	T2621	0314	34935	2784			15072								
167		OBS	T2773	0301	34937	2786			15093								
167		OBS	2875	0294	34937	2786			15108								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARSHEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		WDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	819	ML	5638 N	05049 W		186	60	12	08	128	1966	B22	007	3658	15	17	2	3	X2	5	8	0007

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	WIND			
				170	022	011	7	13		

MESSAGE TIME (HR 1/10)	CASID NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S.C.C.
		STD	0000	0399	3463	2751	0005820	0000	14663								
135		OBS	0000	0399	34626	2751			14663								
		STD	0010	0399	3463	2751	0005837	0006	14665								
		STD	0020	0399	3463	2751	0005847	0012	14666								
135		OBS	0026	0399	34624	2751			14667								
		STD	0030	0399	3462	2751	0005866	0018	14668								
		STD	0050	0400	3463	2751	0005678	0029	14672								
135		OBS	0050	0400	34626	2751			14672								
		STD	0075	0402	3463	2751	0005894	0044	14677								
		STD	0100	0403	3463	2751	0005918	0059	14681								
135		OBS	0100	0403	34631	2751			14681								
		STD	0125	0411	3477	2761	0004980	0072	14691								
135		OBS	0149	0416	34846	2767			14698								
		STD	0150	0416	3485	2767	0004457	0084	14698								
		STD	0200	0416	3486	2768	0004448	0106	14706								
135		OBS	T0200	0416	34858	2768			14706								
135		OBS	0249	0411	34860	27680											
		STD	0250	0411	3485	2768	0004505	0129	14712								
		STD	0300	0406	3484	2767	0004575	0152	14718								
135		OBS	T0395	0396	34820	27670											
		STD	0400	0395	3483	2768	0004628	0198	14730								
135		OBS	0490	0383	34817	2768			14740								
		STD	0500	0382	3482	2768	0004677	0244	14741								
135		OBS	T0583	0377	34813	2768			14753								
		STD	0600	0377	3481	2768	0004734	0291	14756								
		STD	0700	0373	3482	2769	0004755	0339	14770								
135		OBS	0774	0371	34820	2769			14782								
		STD	0800	0370	3482	2770	0004779	0386	14786								
		STD	0900	0366	3482	2770	0004803	0434	14801								
135		OBS	0968	0364	34824	2770			14811								
		STD	1000	0363	3483	2771	0004837	0482	14816								
		STD	1100	0360	3483	2771	0004870	0531	14832								
		STD	1200	0358	3483	2771	0004913	0580	14848								
		STD	1300	0356	3483	2772	0004947	0629	14864								
		STD	1400	0355	3483	2772	0005000	0679	14880								
135		OBS	T1487	0354	34836	2772			14895								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO.		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
31	819	ML	56285N	05059 W	186 60	12	12	141	1966	B22	008	3621	13	35	3	2		X8	5	8	0008

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
		04	S15	140	006	046	7	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₂ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE
		STD	0000	0400	3461	2750	0005935	0400	14663								
141		OBS	0000	0400	34612	2750			14663								
		STD	0010	0401	3461	2750	0005954	0006	14665								
		STD	0020	0402	3461	2750	0005980	0012	14667								
141		OBS	0022	0402	34611	2750			14668								
		STD	0030	0402	3461	2750	0005991	0018	14669								
141		OBS	0043	0401	34611	2750			14671								
		STD	0050	0400	3462	2751	0005925	0030	14672								
		STD	0075	0397	3466	2754	0005619	0044	14675								
141		OBS	0086	0396	34669	2755			14677								
		STD	0100	0402	3468	2755	0005540	0058	14682								
		STD	0125	0411	3470	2756	0005506	0072	14690								
141		OBS	0128	0412	34703	2756			14691								
		STD	0150	0421	3475	2759	0005259	0085	14699								
141		OBS	T0170	0425	34782	2761			14704								
		STD	0200	0419	3479	2762	0004989	0111	14707								
141		OBS	0213	0418	34794	2763			14708								
		STD	0250	0420	3481	2763	0004934	0136	14715								
141		OBS	0256	0420	34807	2763			14717								
		STD	0300	0401	3481	2766	0004749	0160	14716								
146		OBS	0301	0400	34809	2766			14716								
146		OBS	0374	0401	34811	2766			14728								
		STD	0400	0398	3481	2766	0004810	0208	14731								
146		OBS	T0452	0392	34806	2766			14737								
		STD	0500	0384	3480	2767	0004825	0256	14742								
		STD	0600	0374	3480	2768	0004806	0304	14754								
146		OBS	0626	0372	34798	2768			14758								
		STD	0700	0373	3480	2768	0004880	0353	14770								
		STD	0800	0374	3481	2768	0004905	0402	14787								
146		OBS	0814	0374	34813	2769			14790								
		STD	0900	0373	3481	2769	0004958	0451	14804								
		STD	1000	0371	3481	2769	0005013	0501	14820								
		STD	1100	0368	3481	2769	0005061	0551	14835								
		STD	1200	0364	3482	2770	0005089	0602	14850								
		STD	1300	0358	3482	2770	0005096	0653	14864								
146		OBS	T1324	0356	34815	2771			14868								

Table III. Observed and interpolated oceanographic data for stations taken by USCGC HUMBOLDT at Ocean Station BRAVO, 7-31 January 1967, prepared from NODC listing No. 31-870 HU.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HEIGHT 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		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
31	870	HU	56425N	05046 W		186	60	01	07	198	1967	B22	001	356b	14	34	4	3	X6	5	8	0001
						WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO. OBS.		SPECIAL				
						COLOR		DIR.		METER		DRY		NO.		OBS.		OBSERVATIONS				
						CODE		SPEED		(mba)		BULB		CODE		DEPTH						
						TRANS.		OR				WET										
						(m)		FORCE				BULB										
						34		S10		085		039		036		6		14				
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	0396	3477	2763	0004722	0000	14664													
198		OBS	0000	0396	34768	2763			14664													
		STD	0010	0391	3477	2763	0004698	0005	14663													
		STD	0020	0388	3476	2763	0004693	0009	14664													
198		OBS	0024	0387	34763	2763			14664													
		STD	0030	0388	3476	2763	0004697	0014	14665													
198		OBS	0047	0389	34768	2763			14669													
		STD	0050	0392	3477	2763	0004716	0024	14670													
		STD	0075	0411	3480	2764	0004706	0035	14683													
198		OBS	0094	0418	34815	2764			14689													
		STD	0100	0416	3482	2764	0004669	0047	14689													
		STD	0125	0408	3481	2765	0004627	0059	14690													
198		OBS	0143	0405	34811	2765			14692													
		STD	0150	0405	3481	2765	0004632	0070	14693													
198		OBS	T0193	0408	34819	2766			14701													
		STD	0200	0414	3483	2766	0004636	0093	14705													
198		OBS	0238	0441	34870	2766			14723													
		STD	0250	0449	3488	2766	0004692	0117	14729													
198		OBS	0285	0464	34914	2767			14741													
		STD	0300	0458	3491	2767	0004622	0140	14741													
198		OBS	T0377	0431	34895	2769			14742													
		STD	0400	0426	3489	2769	0004519	0186	14744													
198		OBS	0475	0411	34883	2770			14750													
		STD	0500	0407	3488	2770	0004482	0231	14752													
198		OBS	0571	0397	34872	2771			14760													
		STD	0600	0391	3486	2771	0004547	0276	14762													
		STD	0700	0375	3485	2771	0004533	0321	14772													
198		OBS	0762	0370	34842	2771			14780													
		STD	0800	0371	3485	2772	0004573	0367	14787													
		STD	0900	0373	3487	2773	0004535	0412	14804													
198		OBS	0953	0374	34872	2773			14814													
		STD	1000	0374	3487	2773	0004620	0458	14822													
		STD	1100	0373	3487	2773	0004687	0505	14838													
		STD	1200	0369	3487	2774	0004715	0552	14853													
		STD	1300	0364	3487	2774	0004737	0599	14868													
		STD	1400	0358	3488	2775	0004736	0646	14882													
198		OBS	T1445	0354	34875	2776			14888													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	870	HU	5626 N	05102 W		186	61	01	08	146	1967	B22	002	3566	16	35	4	J	X7	5	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			
		33	522	196	022	022	4	14	

MESSENGER TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	S Δ D CYN. 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	Si O ₄ -Si μg - ol/l	pH	S C C
		STD	0000	0379	3467	2756	0005324	0000	14655								
146		OBS	0000	0379	34666	2756			14655								
		STD	0010	0379	3467	2757	0005300	0005	14657								
		STD	0020	0378	3467	2757	0005305	0011	14658								
146		OBS	0026	0378	34677	2757			14659								
		STD	0030	0379	3468	2758	0005244	0016	14660								
		STD	0050	0383	3469	2758	0005226	0026	14665								
146		OBS	0051	0383	34694	2758			14666								
		STD	0075	0383	3470	2759	0005176	0039	14670								
		STD	0100	0383	3471	2759	0005124	0052	14674								
146		OBS	0103	0383	34717	2760			14675								
		STD	0125	0402	3477	2762	0004888	0065	14687								
		STD	0150	0415	3481	2764	0004747	0077	14697								
146		OBS	0155	0417	34813	2764			14699								
		STD	0200	0415	3484	2766	0004572	0100	14706								
146		OBS	T0209	0414	34841	2767			14707								
		STD	0250	0406	3484	2767	0004527	0123	14710								
146		OBS	0257	0405	34839	2767			14711								
		STD	0300	0406	3485	2768	0004499	0145	14718								
146		OBS	0308	0406	34851	2768			14720								
		STD	0400	0394	3485	2770	0004446	0190	14730								
146		OBS	T0410	0393	34853	2770			14731								
		STD	0500	0381	3485	2771	0004413	0234	14741								
146		OBS	0511	0380	34851	2771			14743								
		STD	0600	0376	3486	2772	0004381	0278	14756								
146		OBS	T0613	0375	34861	2772			14757								
		STD	0700	0371	3486	2773	0004391	0322	14770								
		STD	0800	0367	3487	2773	0004418	0366	14785								
146		OBS	0820	0366	34865	2774			14788								
		STD	0900	0364	3487	2774	0004432	0411	14801								
		STD	1000	0362	3488	2775	0004449	0455	14817								
146		OBS	T1031	0361	34878	2775			14821								
		STD	1100	0359	3488	2775	0004474	0500	14832								
		STD	1200	0357	3488	2776	0004518	0545	14848								
		STD	1300	0355	3488	2776	0004560	0590	14864								
		STD	1400	0353	3489	2776	0004600	0636	14880								
		STD	1500	0352	3489	2777	0004660	0682	14897								
146		OBS	T1587	0350	34888	2777			14910								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT 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.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA				TYPE
31	870	HU	5628 N	05108 W	186	61	01	09	128	1967	822	003	3566	16	31	3	3		X1	5	6		0003
		WATER		WIND		SARD- METER		AIR TEMP. °C		VR. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANSL. MM		DIR. SPEED OR FORCE		DRY BULB		WET BULB													
				33		S10		186		022		014		7		14							

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	0374	3467	2757	0005284	0000	14653								
128		OBS	0000	0374	34665	2757			14653								
		STD	0010	0374	3467	2757	0005293	0005	14655								
		STD	0020	0374	3467	2757	0005294	0011	14656								
128		OBS	0026	0374	34666	2757			14657								
		STD	0030	0375	3467	2757	0005283	0016	14659								
		STD	0050	0380	3469	2758	0005197	0026	14664								
128		OBS	0051	0380	34692	2758			14664								
		STD	0075	0381	3471	2760	0005080	0039	14669								
		STD	0100	0382	3473	2761	0004963	0052	14674								
128		OBS	0103	0382	34731	2761			14674								
		STD	0125	0393	3475	2762	0004947	0064	14683								
		STD	0150	0401	3477	2762	0004902	0076	14691								
128		OBS	0156	0403	34772	2762			14692								
		STD	0200	0408	3482	2766	0004648	0100	14702								
128		OBS	0207	0409	34827	2766			14704								
		STD	0250	0413	3486	2768	0004453	0123	14713								
128		OBS	0258	0414	34862	2768			14715								
		STD	0300	0407	3486	2769	0004407	0145	14719								
128		OBS	0310	0405	34864	2769			14720								
		STD	0400	0395	3486	2770	0004397	0189	14731								
128		OBS	T0411	0394	34860	2770			14732								
		STD	0500	0385	3486	2771	0004389	0233	14743								
128		OBS	0517	0384	34857	2771			14745								
		STD	0600	0378	3486	2772	0004403	0277	14757								
128		OBS	0623	0376	34863	2772			14760								
		STD	0700	0372	3487	2773	0004351	0321	14771								
		STD	0800	0367	3487	2774	0004381	0365	14785								
128		OBS	0832	0366	34875	2774			14790								
		STD	0900	0364	3488	2775	0004395	0408	14801								
		STD	1000	0361	3488	2775	0004444	0453	14816								
128		OBS	T1043	0360	34875	2775			14823								
		STD	1100	0359	3488	2775	0004467	0497	14832								
		STD	1200	0356	3488	2776	0004513	0542	14848								
		STD	1300	0354	3488	2776	0004569	0587	14864								
		STD	1400	0352	3489	2777	0004551	0633	14880								
		STD	1500	0351	3489	2777	0004618	0679	14896								
128		OBS	T1560	0350	34899	2778			14906								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	870	HU	5628 N	05108 W		186	61	01	10	129	1967	B22	004	3566	14	2	4	4	X8	3	7	0004

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			
		24	S24	098	019	003	7	14	

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	$\frac{\sigma}{\rho}$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μ g - at/l	TOTAL-P μ g - at/l	NO ₂ -N μ g - at/l	NO ₃ -N μ g - at/l	SiO ₂ -Si μ g - at/l	pH	STATUS
		STD	0000	0373	3469	2759	0005064	0000	14653								
129		OBS	0000	0373	34693	2759			14653								
		STD	0010	0373	3469	2759	0005069	0005	14655								
		STD	0020	0372	3469	2759	0005073	0010	14656								
129		OBS	0023	0372	34693	2759			14656								
		STD	0030	0373	3469	2759	0005090	0015	14658								
129		OBS	0044	0374	34693	2759			14661								
		STD	0050	0375	3470	2760	0005075	0025	14662								
		STD	0075	0378	3472	2761	0004977	0038	14668								
129		OBS	0098	0381	34732	2761			14673								
		STD	0100	0381	3473	2761	0004942	0050	14674								
		STD	0125	0385	3474	2762	0004956	0063	14679								
129		OBS	0132	0386	34740	2762			14681								
		STD	0150	0394	3479	2765	0004681	0075	14688								
129		OBS	0177	0404	34839	2768			14697								
		STD	0200	0413	3485	2767	0004476	0098	14705								
129		OBS	0221	0417	34853	2767			14710								
		STD	0250	0412	3486	2768	0004478	0120	14713								
129		OBS	0264	0410	34856	2768			14714								
		STD	0300	0405	3486	2769	0004430	0142	14718								
129		OBS	T0358	0398	34860	2770			14725								
		STD	0400	0396	3486	2770	0004407	0186	14731								
129		OBS	0442	0392	34862	2771			14736								
		STD	0500	0384	3466	2772	0004356	0230	14743								
129		OBS	T0529	0381	34863	2772			14746								
		STD	0600	0379	3487	2773	0004340	0274	14757								
		STD	0700	0375	3487	2773	0004384	0317	14772								
129		OBS	0716	0374	34875	2774			14774								
		STD	0800	0369	3488	2774	0004332	0361	14786								
		STD	0900	0364	3489	2775	0004309	0404	14801								
129		OBS	0910	0363	34887	2776			14802								
		STD	1000	0359	3489	2776	0004340	0447	14816								
		STD	1100	0356	3489	2776	0004394	0491	14831								
		STD	1200	0354	3488	2776	0004459	0535	14847								
		STD	1300	0352	3488	2776	0004523	0580	14863								
		STD	1400	0352	3488	2776	0004610	0626	14880								
129		OBS	T1416	0352	34882	2776			14882								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO YR	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	IC NO.					10"	1"	MO	OAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
31	870	HU	5629 N	05058 W	186	60	01	11	125	1967	B22	005	3566	16	17	4	4	X7	5	8	0005		

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	
COLOR CODE	TRANSL. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB				
				21	508	098	-025	-040	5	14

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	SEC
		STO	0000	0372	3468	2758	0005190	0000	14652								
125		OBS	0000	0372	34675	2758			14652								
		STD	0010	0371	3467	2758	0005228	0005	14654								
		STD	0020	0371	3467	2758	0005231	0010	14655								
125		OBS	0026	0370	34669	2758			14656								
		STD	0030	0371	3467	2758	0005239	0016	14657								
		STD	0050	0373	3468	2758	0005205	0026	14661								
125		OBS	0051	0373	34685	2759			14661								
		STD	0075	0380	3471	2760	0005083	0039	14669								
		STD	0100	0388	3473	2761	0004994	0052	14676								
125		OBS	0103	0389	34737	2761			14677								
		STD	0125	0385	3474	2762	0004923	0064	14679								
		STD	0150	0380	3475	2763	0004860	0076	14681								
125		OBS	0154	0379	34748	2763			14682								
		STD	0200	0415	3481	2764	0004797	0100	14705								
125		OBS	T0208	0418	34819	2764			14708								
		STD	0250	0411	3484	2767	0004580	0124	14712								
125		OBS	0258	0410	34848	2768			14713								
		STD	0300	0408	3486	2769	0004443	0146	14719								
125		OBS	0310	0407	34864	2769			14721								
		STD	0400	0409	3487	2770	0004478	0191	14736								
125		OBS	T0413	0409	34875	2770			14739								
		STD	0500	0398	3487	2771	0004457	0236	14749								
125		OBS	0517	0395	34868	2771			14750								
		STD	0600	0380	3487	2772	0004373	0280	14758								
125		OBS	T0623	0377	34866	2772			14760								
		STD	0700	0375	3488	2774	0004310	0323	14772								
		STD	0800	0372	3489	2775	0004290	0366	14788								
125		OBS	0830	0371	34892	2775			14792								
		STD	0900	0366	3489	2776	0004285	0409	14802								
		STD	1000	0361	3490	2776	0004297	0452	14817								
125		OBS	T1040	0359	34896	2777			14822								
		STD	1100	0358	3490	2777	0004330	0495	14832								
		STD	1200	0356	3490	2777	0004377	0539	14848								
		STD	1300	0355	3490	2778	0004422	0583	14864								
		STD	1400	0353	3490	2778	0004467	0627	14880								
		STD	1500	0351	3491	2778	0004510	0672	14896								
125		OBS	T1573	0350	34907	2778			14908								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DREF NO.	MAPS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER.	SEA
31	870	HU	5633 N	05058 W		186	60	01	12	136	1967	822	006	3506	15	23	3	3	X1	5	6	0006

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			
		26	506	051	-028	-053	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 - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SIO ₄ -S µg - ml/l	pH	S C C
		STD	0000	0378	3475	2763	0004713	0000	14656								
136		OBS	0000	0378	34746	2763			14656								
		STD	0010	0377	3475	2763	0004722	0005	14657								
		STD	0020	0376	3474	2763	0004730	0009	14659								
136		OBS	0025	0376	34744	2763			14659								
		STD	0030	0376	3474	2763	0004738	0014	14660								
		STD	0050	0377	3474	2763	0004778	0024	14664								
136		OBS	0052	0377	34742	2763			14664								
		STD	0075	0376	3474	2763	0004793	0036	14667								
		STD	0100	0375	3474	2763	0004798	0048	14671								
136		OBS	0102	0375	34743	2763			14671								
		STD	0125	0382	3476	2763	0004769	0060	14678								
		STD	0150	0400	3478	2763	0004847	0072	14690								
136		OBS	0153	0403	34778	2763			14692								
		STD	0200	0475	3493	2767	0004552	0095	14732								
136		OBS	T0204	0477	34931	2767			14733								
		STD	0250	0460	3492	2768	0004552	0118	14734								
136		OBS	0255	0458	34913	2768			14734								
		STD	0300	0446	3490	2768	0004555	0141	14736								
136		OBS	0305	0445	34900	2768			14736								
		STD	0400	0420	3488	2769	0004520	0186	14741								
136		OBS	T0405	0419	34880	2769			14742								
		STD	0500	0399	3487	2771	0004468	0231	14749								
136		OBS	0507	0398	34868	2770			14750								
		STD	0600	0384	3486	2771	0004469	0276	14759								
136		OBS	0610	0383	34855	2771			14760								
		STD	0700	0377	3486	2772	0004481	0320	14773								
		STD	0800	0372	3486	2773	0004512	0365	14787								
136		OBS	0816	0371	34863	2773			14790								
		STD	0900	0369	3487	2774	0004489	0410	14803								
		STD	1000	0367	3488	2775	0004472	0455	14819								
136		OBS	T1019	0366	34885	2775			14822								
		STD	1100	0364	3489	2775	0004482	0500	14834								
		STD	1200	0362	3489	2776	0004542	0545	14850								
		STD	1300	0359	3489	2776	0004579	0591	14866								
		STD	1400	0357	3489	2776	0004628	0637	14882								
		STD	1500	0354	3489	2777	0004663	0683	14897								
136		OBS	T1521	0354	34889	2777			14901								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT.	PERI.		SEA
31	870	HU	5630 N	05100 W	186	61	01	13	122	1967	B22	007	3566	14	34	3	4	X7	7	8	0007

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			
		33	S18	959	000	000	3	14	

MESSAGE TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SIO ₄ -Si μg - 01/l	pH	S.C.C.
		STD	0000	0364	3470	2760	0004955	0000	14649								
		OBS	0000	0364	34696	2760			14649								
		STD	0010	0364	3470	2760	0004957	0005	14651								
		STD	0020	0364	3470	2760	0004958	0010	14653								
		OBS	0023	0364	34698	2760			14653								
		STD	0030	0364	3470	2761	0004954	0015	14654								
		OBS	0046	0365	34711	2761			14658								
		STD	0050	0367	3471	2761	0004900	0025	14659								
		STD	0075	0377	3473	2762	0004899	0037	14668								
		OBS	0090	0381	34738	2762			14672								
		STD	0100	0381	3474	2762	0004877	0049	14673								
		STD	0125	0380	3475	2763	0004818	0061	14677								
		OBS	0135	0380	34753	2763			14679								
		STD	0150	0379	3475	2763	0004796	0073	14681								
		OBS	T0182	0376	34755	2764			14685								
		STD	0200	0410	3481	2765	0004744	0097	14703								
		OBS	0225	0438	34868	2766			14720								
		STD	0250	0434	3487	2767	0004572	0120	14722								
		OBS	0268	0430	34879	2768			14724								
		STD	0300	0417	3487	2769	0004469	0143	14723								
		OBS	T0353	0403	34863	2770			14726								
		STD	0400	0403	3488	2771	0004341	0187	14734								
		OBS	0439	0400	34881	2771			14739								
		STD	0500	0390	3487	2771	0004369	0231	14745								
		OBS	T0529	0386	34869	2772			14748								
		STD	0600	0380	3487	2773	0004336	0274	14758								
		STD	0700	0374	3488	2774	0004328	0318	14772								
		OBS	0721	0373	34877	2774			14775								
		STD	0800	0370	3488	2774	0004341	0361	14787								
		OBS	T0880	0367	34884	2775			14799								
		STD	0900	0366	3489	2775	0004344	0404	14802								
		STD	1000	0363	3489	2776	0004379	0448	14817								
		STD	1100	0360	3489	2776	0004405	0492	14833								
		STD	1200	0357	3489	2777	0004437	0536	14848								
		STD	1300	0355	3490	2777	0004471	0581	14864								
		OBS	T1393	0353	34897	2777			14879								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

31	870	HU	5630 N	05044 W	186	60	01	14	129	1967	B22	008	3566	17	01	4	4	X1	8	3	0008
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB		WET BULB									
		30		513		078		-008 -026		7		14									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ 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	SIC
		STD	0000	0359	3470	2761	0004871	0000	14647								
129		OBS	0000	0359	34701	2761			14647								
		STD	0010	0359	3470	2761	0004883	0005	14649								
		STD	0020	0360	3470	2761	0004902	0010	14651								
129		OBS	0028	0360	34700	2761			14652								
		STD	0030	0360	3470	2761	0004914	0015	14653								
		STD	0050	0362	3470	2761	0004924	0025	14657								
129		OBS	0055	0362	34704	2761			14658								
		STD	0075	0363	3471	2762	0004906	0037	14661								
		STD	0100	0366	3471	2761	0004957	0049	14667								
129		OBS	0110	0368	34719	2762			14669								
		STD	0125	0369	3473	2762	0004858	0061	14672								
		STD	0150	0376	3475	2763	0004799	0073	14680								
129		OBS	0165	0382	34770	2764			14685								
		STD	0200	0411	3483	2766	0004605	0097	14704								
129		OBS	T0219	0419	34855	2767			14711								
		STD	0250	0413	3486	2768	0004473	0120	14713								
129		OBS	0273	0410	34858	2768			14716								
		STD	0300	0407	3486	2769	0004437	0142	14719								
129		OBS	0327	0404	34866	2770			14722								
		STD	0400	0395	3486	2770	0004382	0186	14731								
129		OBS	T0439	0391	34861	2771			14735								
		STD	0500	0386	3487	2772	0004325	0230	14743								
129		OBS	0548	0383	34872	2772			14750								
		STD	0600	0383	3488	2773	0004309	0273	14759								
129		OBS	T0660	0383	34896	2774			14769								
		STD	0700	0380	3490	2775	0004242	0316	14774								
		STD	0800	0371	3490	2776	0004224	0358	14787								
		STD	0900	0362	3490	2776	0004210	0400	14800								
129		OBS	0901	0362	34897	2776			14800								
		STD	1000	0360	3490	2777	0004260	0442	14816								
		STD	1100	0358	3490	2777	0004303	0485	14832								
129		OBS	1126	0357	34900	2777			14836								
		STD	1200	0356	3490	2777	0004358	0528	14848								
		STD	1300	0354	3490	2778	0004400	0572	14864								
		STD	1400	0353	3491	2778	0004453	0617	14880								
		STD	1500	0353	3491	2778	0004518	0661	14897								
129		OBS	T1729	0353	34911	2778			14936								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDECH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	870	HU	5633 N	05053 W		186	60	01	19	176	1967	822	011	3500	16	24	6	2	X1	9	2	0011

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			
		08	S10		-005	-027	7	14	

MESSAGE TIME HR / 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	D ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S.C.C.
		STD	0000	0380	3479	2766	0004438	0000	14657								
		OBS	0000	0380	34785	2766			14657								
		STD	0010	0380	3478	2766	0004451	0004	14659								
		STD	0020	0379	3478	2766	0004458	0009	14660								
		OBS	0027	0379	34783	2766			14661								
		STD	0030	0379	3478	2766	0004473	0013	14662								
		STD	0050	0381	3479	2766	0004477	0022	14666								
		OBS	0052	0381	34787	2766			14666								
		STD	0075	0387	3479	2765	0004539	0034	14673								
		STD	0100	0393	3479	2765	0004623	0045	14679								
		OBS	0104	0394	34795	2765			14680								
		STD	0125	0399	3480	2765	0004632	0057	14686								
		STD	0150	0402	3480	2765	0004687	0068	14691								
		OBS	0155	0403	34802	2765			14693								
		STD	0200	0404	3482	2766	0004635	0092	14701								
		OBS	0206	0404	34818	2766			14702								
		STD	0250	0406	3482	2766	0004684	0115	14710								
		OBS	0258	0408	34819	2766			14712								
		STD	0300	0427	3483	2764	0004906	0139	14727								
		OBS	0310	0430	34828	2764			14730								
		STD	0400	0421	3482	2765	0004957	0188	14741								
		OBS	0413		34823												
		STD	0500	0407	3488	2770	0004482	0235	14752								
		OBS	0517	0404	34881	2771			14754								
		STD	0600	0387	3487	2772	0004428	0280	14760								
		OBS	T0622	0383	34867	2772			14762								
		STD	0700	0379	3487	2773	0004422	0324	14774								
		STD	0800	0374	3488	2774	0004424	0368	14788								
		OBS	0833	0373	34877	2774			14793								
		STD	0900	0370	3488	2774	0004442	0413	14803								
		STD	1000	0366	3488	2775	0004474	0457	14818								
		OBS	T1046	0364	34879	2775			14825								
		STD	1100	0362	3488	2775	0004503	0502	14833								
		STD	1200	0359	3488	2775	0004549	0547	14849								
		STD	1300	0357	3489	2776	0004533	0593	14865								
		STD	1400	0355	3489	2777	0004589	0638	14881								
		STD	1500	0354	3490	2778	0004582	0684	14896								
		OBS	T1601	0354	34904	2778			14915								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MAGNETIC DEVIATION	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MD	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
31	870	HU	5628 N	05103 W		186	61	01	21	133	1967	622	012	3566	17	25	4	3	X7	7	8	0012

WATER		WIND		BARO. METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
				017	-044	-054	4	14	

MESSAGE NO.	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₂ -Si μg-at/l	pH	CLOUDS
		STO	0000	0393	3481	2767	0004347	0000	14663								
133		OBS	0000	0393	34814	2767			14663								
		STO	0010	0393	3481	2766	0004384	0004	14663								
		STO	0020	0392	3481	2766	0004389	0009	14666								
133		OBS	0028	0392	34808	2766			14667								
		STO	0030	0392	3481	2766	0004398	0013	14668								
		STO	0050	0394	3481	2766	0004432	0022	14672								
133		OBS	0054	0394	34811	2766			14672								
		STO	0075	0394	3481	2766	0004447	0033	14676								
		STD	0100	0393	3481	2766	0004474	0044	14680								
133		OBS	0106	0393	34810	2766			14681								
		STO	0125	0394	3480	2766	0004553	0056	14684								
		STO	0150	0396	3480	2765	0004643	0067	14689								
133		OBS	0158	0396	34794	2765			14690								
		STO	0200	0397	3480	2765	0004682	0090	14698								
133		OBS	T0210	0397	34808	2766			14699								
		STO	0250	0409	3482	2766	0004708	0114	14711								
133		OBS	0263	0413	34830	2766			14715								
		STO	0300	0422	3486	2767	0004598	0137	14725								
133		OBS	0316	0425	34867	2768			14729								
		STO	0400	0412	3489	2771	0004335	0182	14738								
133		OBS	0418		34900												
		STD	0500	0397	3487	2771	0004446	0226	14748								
133		OBS	0522	0394	34869	2771			14750								
		STD	0600	0383	3486	2771	0004458	0270	14759								
133		OBS	T0624	0380	34859	2772			14761								
		STO	0700	0377	3486	2772	0004466	0315	14773								
		STD	0800	0374	3487	2773	0004498	0360	14788								
133		OBS	0842	0372	34867	2773			14794								
		STO	0900	0370	3487	2774	0004502	0405	14803								
		STD	1000	0366	3487	2774	0004540	0450	14818								
133		OBS	T1068	0364	34877	2775			14829								
		STD	1100	0363	3488	2775	0004515	0495	14834								
		STD	1200	0360	3488	2775	0004561	0540	14849								
		STD	1300	0358	3489	2776	0004545	0586	14865								
		STD	1400	0355	3489	2777	0004589	0632	14881								
		STD	1500	0353	3489	2777	0004643	0678	14897								
133		OBS	T1653	0351	34896	2777			14922								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN 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		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	870	HU	5630 N	05104 W	186	61	01	25	164	1967	022	015	3566	34	30	4	3	X2	6	8	0015	

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		33	S13	064	023	017	6	17	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DTN. 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	3 C C
		STD	0000	0395	3484	2769	0004171	0000	14664								
133		OBS	0000	0395	34840	2769			14664								
		STD	0010	0394	3483	2768	0004219	0004	14666								
		STD	0020	0394	3483	2768	0004266	0008	14667								
133		OBS	0027	0393	34824	2768			14666								
		STD	0030	0393	3483	2768	0004257	0013	14668								
		STD	0050	0395	3484	2769	0004217	0021	14673								
133		OBS	0053	0395	34845	2769			14673								
		STD	0075	0396	3485	2769	0004211	0032	14677								
		STD	0100	0398	3485	2769	0004243	0042	14682								
133		OBS	0104	0398	34847	2769			14683								
		STD	0125	0399	3485	2769	0004274	0053	14687								
		STD	0150	0401	3485	2769	0004306	0064	14692								
133		OBS	0156	0401	34849	2769			14693								
		STD	0200	0399	3485	2769	0004355	0085	14699								
133		OBS	T0208	0398	34845	2769			14700								
		STD	0250	0396	3485	2769	0004365	0107	14706								
133		OBS	0258	0396	34849	2769			14707								
		STD	0300	0393	3485	2769	0004397	0129	14713								
133		OBS	0306	0393	34846	2769			14714								
		STD	0400	0399	3487	2771	0004367	0173	14732								
		STD	0500	0404	3488	2771	0004453	0217	14751								
133		OBS	0510	0405	34884	2771			14753								
		STD	0600	0392	3488	2772	0004410	0261	14763								
133		OBS	0612	0390	34876	2772			14764								
		STD	0700	0380	3487	2773	0004433	0305	14774								
		STD	0800	0372	3487	2773	0004468	0350	14787								
133		OBS	0821	0370	34865	2773			14790								
		STD	0900	0365	3487	2774	0004444	0395	14801								
		STD	1000	0360	3488	2775	0004396	0439	14816								
133		OBS	T1031	0359	34885	2776			14821								
		STD	1100	0358	3489	2776	0004381	0483	14832								
		STD	1200	0357	3489	2776	0004451	0527	14846								
		STD	1300	0356	3489	2777	0004520	0572	14865								
		STD	1400	0355	3489	2777	0004589	0617	14881								
		STD	1500	0353	3489	2777	0004643	0663	14897								
133		OBS	T1585	0352	34896	2777			14911								
		STD	1750	0352	3491	2779	0004680	0760	14939								
		STD	2000	0348	3492	2780	0004746	0898	14980								
164		OBS	T2200	0340	34932	2781			15011								
		STD	2500	0322	3494	2783	0004630	1132	15055								
164		OBS	T2781	0298	34937	2786			15093								
		STD	3000	0287	3493	2786	0004465	1359	15126								
164		OBS	T3350	0226	34919	2791			15161								
164		OBS	3396	0214	34904	2790			15164								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
31	870	HU	5634 N	05101 W	186	61	01	26	134	1967	822	016	3566	13	33	3	2	X1	3	6	0016		
WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. (m)		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE													
		35		S14		115		027		017 7 14													

MESSANGER TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma_t$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.
		STD	0000	0374	3482	2769	0004132	0000	14655								
134		OBS	0000	0374	34818	2769			14655								
		STD	0010	0373	3482	2769	0004130	0004	14656								
		STD	0020	0372	3482	2769	0004126	0008	14657								
134		OBS	0024	0371	34818	2769			14658								
		STD	0030	0371	3482	2769	0004133	0012	14659								
134		OBS	0048	0372	34817	2769			14662								
		STD	0050	0372	3482	2769	0004166	0021	14663								
		STD	0075	0372	3481	2769	0004211	0031	14667								
134		OBS	0095	0372	34812	2769			14670								
		STD	0100	0373	3481	2769	0004251	0042	14671								
		STD	0125	0376	3482	2769	0004251	0052	14677								
134		OBS	0143	0377	34824	2769			14680								
		STD	0150	0377	3483	2769	0004246	0063	14681								
134		OBS	T0190	0375	34828	2770			14687								
		STD	0200	0375	3483	2770	0004259	0084	14689								
134		OBS	0235	0376	34821	2769			14695								
		STD	0250	0377	3482	2769	0004375	0106	14698								
134		OBS	0278	0379	34819	2769			14703								
		STD	0300	0378	3482	2769	0004434	0128	14706								
134		OBS	T0365	0376	34830	2770			14716								
		STD	0400	0385	3484	2770	0004446	0172	14726								
134		OBS	0455	0393	34858	2770			14739								
		STD	0500	0392	3486	2770	0004465	0217	14746								
134		OBS	0543	0390	34868	2771			14752								
		STD	0600	0382	3487	2772	0004395	0261	14758								
		STD	0700	0372	3486	2773	0004395	0305	14771								
134		OBS	0723	0370	34863	2773			14774								
		STD	0800	0367	3487	2774	0004382	0349	14785								
		STD	0900	0363	3488	2775	0004349	0393	14801								
134		OBS	T0906	0363	34884	2775			14801								
		STD	1000	0360	3489	2776	0004351	0436	14816								
		STD	1100	0358	3489	2776	0004389	0480	14832								
		STD	1200	0356	3489	2777	0004432	0524	14848								
		STD	1300	0355	3489	2777	0004479	0568	14864								
134		OBS	1348	0355	34895	2777			14872								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	870	HU	56265N	05059 W	186	60	01	28	130	1967	B22	017	3500	15	07	2	2	X2	3	8	0017

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		23	S02	149	032	017	7	14	

MESSNGR TIME HR 1/10	CASE 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 ₂ -Si μg - at/l	pH	S CCT
		STD	0000	0378	3462	2769	0004125	0000	14657								
130		OBS	0000	0378	34824	2769			14657								
		STD	0010	0377	3482	2769	0004157	0004	14658								
		STD	0020	0376	3482	2769	0004159	0008	14660								
130		OBS	0025	0376	34819	2769			14660								
		STD	0030	0376	3482	2769	0004175	0012	14661								
		STD	0050	0378	3482	2769	0004208	0021	14665								
130		OBS	0052	0378	34819	2769			14665								
		STD	0075	0385	3485	2769	0004200	0031	14672								
		STD	0100	0389	3484	2769	0004203	0042	14678								
130		OBS	0102	0389	34844	2770			14679								
		STD	0125	0393	3485	2770	0004200	0052	14684								
		STD	0150	0396	3485	2769	0004273	0063	14691								
130		OBS	0154	0399	34854	2769			14692								
		STD	0200	0400	3485	2769	0004317	0084	14700								
130		OBS	T0206	0400	34853	2769			14701								
		STD	0250	0401	3486	2770	0004293	0106	14708								
130		OBS	0256	0401	34865	2770			14709								
		STD	0300	0389	3485	2770	0004321	0127	14711								
130		OBS	0307	0387	34847	2770			14712								
		STD	0400	0379	3484	2770	0004378	0171	14723								
130		OBS	T0406	0378	34837	2770			14724								
		STD	0500	0372	3482	2769	0004534	0216	14737								
130		OBS	0507	0371	34820	2769			14738								
		STD	0600	0390	3486	2771	0004556	0261	14762								
130		OBS	0609	0391	34865	2771			14764								
		STD	0700	0382	3487	2772	0004500	0306	14775								
		STD	0800	0374	3486	2773	0004505	0351	14788								
130		OBS	0812	0373	34864	2773			14790								
		STD	0900	0370	3487	2774	0004502	0396	14803								
		STD	1000	0367	3488	2775	0004478	0441	14819								
130		OBS	T1016	0366	34883	2775			14821								
		STD	1100	0363	3489	2776	0004441	0486	14834								
		STD	1200	0361	3489	2776	0004500	0530	14850								
		STD	1300	0358	3489	2776	0004545	0576	14865								
		STD	1400	0356	3489	2777	0004601	0621	14881								
		STD	1500	0354	3489	2777	0004656	0668	14897								
130		OBS	T1517	0354	34890	2777			14900								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIRL MUTCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	870	HU	56305N	05059 W		186	60	01	29	126	1967	B22	018	3560	16	00	4	3	X2	3	8	0018

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			
	10	S17	135	028	018	7	14		

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S CODE
		STD	0000	0391	3485	2769	0004094	0000	14663								
126		OBS	0000	0391	34845	2769			14663								
		STD	0010	0391	3484	2769	0004115	0004	14664								
		STD	0020	0390	3484	2769	0004136	0008	14666								
126		OBS	0027	0390	34840	2769			14667								
		STD	0030	0390	3484	2769	0004152	0012	14667								
		STD	0050	0392	3484	2769	0004187	0021	14671								
126		OBS	0053	0392	34837	2769			14672								
		STD	0075	0392	3484	2769	0004236	0031	14675								
		STD	0100	0392	3484	2769	0004267	0042	14680								
126		OBS	0106	0392	34836	2769			14681								
		STD	0125	0392	3484	2769	0004261	0053	14684								
		STD	0150	0392	3484	2769	0004285	0063	14688								
126		OBS	0161	0392	34841	2769			14690								
		STD	0200	0392	3484	2769	0004310	0085	14696								
126		OBS	T0214	0392	34844	2769			14698								
		STD	0250	0388	3484	2769	0004338	0106	14703								
126		OBS	0265	0386	34836	2769			14704								
		STD	0300	0382	3483	2769	0004398	0128	14708								
126		OBS	0318	0380	34829	2769			14710								
		STD	0400	0379	3482	2769	0004497	0173	14723								
126		OBS	0424	0378	34822	2769			14727								
		STD	0500	0379	3483	2769	0004552	0218	14740								
126		OBS	0530	0380	34833	2770			14745								
126		OBS	T0635	0380	34873	2773			14763								
		STD	0700	0379	3488	2773	0004392	0307	14774								
		STD	0800	0375	3488	2774	0004413	0351	14789								
126		OBS	0853	0373	34879	2774			14797								
		STD	0900	0369	3488	2774	0004416	0395	14803								
		STD	1000	0362	3488	2775	0004419	0439	14817								
126		OBS	T1066	0358	34881	2776			14826								
		STD	1100	0358	3488	2776	0004435	0483	14832								
		STD	1200	0356	3488	2776	0004488	0528	14848								
		STD	1300	0355	3489	2776	0004539	0573	14864								
		STD	1400	0354	3489	2776	0004597	0619	14881								
		STD	1500	0353	3489	2777	0004647	0665	14897								
126		OBS	T1637	0351	34892	2777			14919								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUBL. INCH.	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT					
31	870	HU	5631 N	05033 W		186	60	01	30	178	1967	822	019	3566	17	08	5	6	X6	5	8	0019						
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																		
						10		525		865		031		031		6		13										

MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₂ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SIG
		STD	0000	0351	3475	2766	0004411	0000	14645								
178		OBS	0000	0351	34752	2766			14645								
		STD	0010	0351	3475	2766	0004427	0004	14646								
		STD	0020	0351	3475	2766	0004436	0009	14648								
178		OBS	0027	0351	34750	2766			14649								
		STD	0030	0351	3475	2766	0004451	0013	14649								
		STD	0050	0350	3475	2766	0004462	0022	14652								
178		OBS	0054	0350	34750	2766			14653								
		STD	0075	0351	3476	2767	0004413	0033	14657								
		STD	0100	0352	3476	2767	0004443	0044	14661								
178		OBS	0107	0352	34764	2767			14663								
		STD	0125	0357	3477	2767	0004440	0055	14668								
		STD	0150	0363	3477	2766	0004521	0067	14675								
178		OBS	0165	0366	34778	2767			14678								
		STD	0200	0370	3479	2767	0004484	0089	14686								
178		OBS	T0222	0372	34791	2767			14691								
		STD	0250	0373	3480	2768	0004484	0112	14696								
178		OBS	0275	0378	34810	2768			14702								
		STD	0300	0393	3483	2768	0004512	0134	14713								
178		OBS	0332	0407	34861	2769			14724								
		STD	0400	0396	3486	2770	0004400	0179	14731								
		STD	0500	0385	3486	2771	0004367	0222	14743								
178		OBS	0553	0381	34863	2772			14750								
		STD	0600	0380	3487	2773	0004351	0266	14758								
178		OBS	T0663	0378	34880	2774			14767								
		STD	0700	0377	3488	2774	0004317	0309	14773								
		STD	0800	0374	3489	2774	0004342	0353	14788								
178		OBS	0884	0371	34889	2775			14801								
		STD	0900	0370	3489	2775	0004353	0396	14804								
		STD	1000	0364	3489	2776	0004369	0440	14818								
		STD	1100	0359	3489	2776	0004393	0484	14832								
178		OBS	T1113	0358	34892	2776			14834								
		STD	1200	0357	3489	2777	0004424	0528	14848								
		STD	1300	0356	3490	2777	0004471	0572	14865								
		STD	1400	0355	3490	2777	0004518	0617	14881								
		STD	1500	0354	3490	2778	0004570	0663	14898								
178		OBS	T1720	0352	34908	2778			14934								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDIC.	MARS DEN SQUARE		STATION TIME IGMTI			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			
31	870	HU	5629 N	05111 W	186	61	01	31	122	1967	822	020	3566	15	06	4	2	X5	5	8	0020						
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE		TRANS. IM1		DIR.		SPEED OR FORCL		METER (mbal)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		06		S10		861		023		020		6		14													

MESSNGR TIME HR	1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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 CODE
			STD	0000	0387	3482	2768	0004235	0000	14661								
122			OBS	0000	0387	3482	2768			14661								
			STD	0010	0387	3482	2768	0004248	0004	14662								
			STD	0020	0386	3482	2768	0004254	0008	14664								
122			OBS	0024	0386	34817	2766			14664								
			STD	0030	0386	3482	2768	0004278	0013	14665								
122			OBS	0048	0387	34820	2768			14669								
			STD	0050	0387	3482	2768	0004283	0021	14669								
			STD	0075	0387	3483	2769	0004246	0032	14673								
122			OBS	0095	0387	34836	2769			14677								
			STD	0100	0387	3484	2769	0004220	0043	14678								
			STD	0125	0389	3484	2769	0004237	0053	14682								
122			OBS	0142	0390	34840	2769			14686								
			STD	0150	0396	3485	2769	0004251	0064	14690								
122			OBS	T0192	0403	34862	2769			14700								
			STD	0200	0395	3485	2769	0004288	0085	14697								
122			OBS	0236	0371	34813	2769			14693								
			STD	0250	0369	3481	2769	0004339	0107	14694								
122			OBS	0283	0365	34816	2770			14698								
			STD	0300	0365	3482	2770	0004327	0128	14701								
122			OBS	0378	0365	34814	2770			14714								
			STD	0400	0366	3482	2770	0004428	0172	14718								
122			OBS	0471	0367	34817	2770			14730								
			STD	0500	0375	3484	2771	0004430	0216	14738								
122			OBS	T0566	0386	34868	2772			14754								
			STD	0600	0382	3487	2772	0004395	0261	14758								
			STD	0700	0372	3487	2773	0004388	0304	14771								
122			OBS	0757	0368	34863	2773			14778								
			STD	0800	0368	3487	2774	0004392	0348	14786								
			STD	0900	0367	3488	2775	0004393	0392	14802								
122			OBS	0952	0366	34885	2775			14810								
			STD	1000	0365	3489	2775	0004417	0436	14818								
			STD	1100	0363	3489	2776	0004470	0481	14834								
			STD	1200	0361	3489	2776	0004522	0526	14850								
			STD	1300	0358	3489	2776	0004560	0571	14865								
			STD	1400	0355	3489	2777	0004596	0617	14881								
122			OBS	T1454	0353	34889	2777			14889								

Table IV. Observed and interpolated oceanographic data for stations taken by USCGC BIBB at Ocean Station BRAVO, 24 February-14 March 1967, prepared from NODC listing No. 31-875 BX.

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	OBSER- VATION 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		
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER	SEA		TPH	AMT			
31	875	0X	5632 N	05104 W	186	61	02	24	136	1967	023	001	3547	15	04	2	2	X2	6	8		0001			
		WATER		WIND		BARO- METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbs)		DRY BULB		WET BULB		VIS. CODE									
								08		S20		091		028		017		7		14					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ 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 ₂ -Si $\mu\text{g} - \text{at/l}$	pH	S C C								
		STD	0000	0346	3480	2770	0004026	0000	14643																
136		OBS	0000	0346	34797	2770			14643																
		STD	0010	0346	3480	2770	0004046	0004	14645																
		STD	0020	0345	3479	2770	0004065	0008	14646																
136		OBS	0025	0345	34792	2770			14647																
		STD	0030	0345	3479	2770	0004076	0012	14648																
		STD	0050	0347	3480	2770	0004092	0020	14652																
136		OBS	0052	0347	34795	2770			14652																
		STD	0075	0347	3479	2770	0004129	0031	14656																
		STD	0100	0347	3479	2769	0004173	0041	14660																
136		OBS	0103	0347	34790	2769			14660																
		STD	0125	0347	3479	2770	0004186	0051	14664																
		STD	0150	0347	3479	2770	0004192	0062	14668																
136		OBS	0155	0347	34793	2770			14669																
		STD	0200	0347	3479	2770	0004227	0083	14676																
136		OBS	T0207	0347	34794	2770			14676																
		STD	0250	0349	3480	2770	0004248	0104	14685																
136		OBS	0258	0349	34800	2770			14687																
		STD	0300	0348	3480	2770	0004263	0125	14693																
136		OBS	0310	0348	34802	2770			14695																
		STD	0400	0349	3481	2771	0004301	0168	14710																
136		OBS	T0409	0349	34810	2771			14712																
		STD	0500	0348	3481	2771	0004383	0212	14727																
136		OBS	0514	0348	34807	2771			14729																
		STD	0600	0383	3487	2772	0004384	0255	14759																
136		OBS	T0618	0388	34876	2772			14764																
		STD	0700	0385	3489	2774	0004348	0299	14777																
		STD	0800	0380	3489	2774	0004381	0343	14791																
136		OBS	0824	0379	34895	2775			14795																
		STD	0900	0372	3490	2775	0004340	0386	14804																
		STD	1000	0365	3490	2776	0004344	0430	14818																
136		OBS	T1030	0363	34895	2776			14822																
		STD	1100	0362	3490	2777	0004350	0473	14834																
		STD	1200	0360	3490	2777	0004410	0517	14850																
		STD	1300	0358	3490	2777	0004468	0561	14865																
		STD	1400	0356	3490	2777	0004524	0606	14881																
		STD	1500	0354	3490	2778	0004580	0652	14898																
136		OBS	T1539	0353	34906	2778			14904																

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH IN FEET	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10'	1'	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	875	BX	5626 N	05056 W	186	60	02	26	131	1967	B23	002	3567	13	06	3	<	X1	6	6	0002	

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			
		08	S10	152	011	011	7	14	

MESSAGE TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	SEC
		STD	0000	0351	3479	2769	0004103	0000	14645								
131		OBS	0000	0351	34793	2769			14645								
		STD	0010	0351	3479	2769	0004107	0004	14647								
		STD	0020	0350	3479	2769	0004111	0008	14648								
131		OBS	0022	0350	34793	2769			14648								
		STD	0030	0351	3479	2769	0004136	0012	14650								
131		OBS	0045	0352	34790	2769			14653								
		STD	0050	0352	3479	2769	0004176	0021	14654								
		STD	0075	0351	3479	2769	0004163	0031	14657								
131		OBS	0089	0350	34794	2769			14659								
		STD	0100	0350	3479	2769	0004173	0041	14661								
		STD	0125	0351	3480	2770	0004185	0052	14666								
131		OBS	0134	0351	34796	2770			14667								
		STD	0150	0351	3480	2769	0004220	0062	14670								
131		OBS	T0178	0352	34792	2769			14675								
		STD	0200	0353	3479	2769	0004293	0084	14679								
131		OBS	0220	0354	34794	2769			14683								
		STD	0250	0354	3480	2770	0004293	0105	14688								
131		OBS	0263	0354	34802	2770			14690								
		STD	0300	0356	3480	2770	0004324	0127	14697								
131		OBS	T0344	0358	34807	2770			14705								
		STD	0400	0389	3486	2771	0004340	0170	14728								
131		OBS	0429	0397	34876	2771			14736								
		STD	0500	0393	3488	2772	0004365	0214	14747								
131		OBS	T0513	0392	34875	2772			14748								
		STD	0600	0383	3488	2773	0004324	0257	14759								
131		OBS	0681	0377	34880	2774			14770								
		STD	0700	0376	3488	2774	0004314	0300	14773								
		STD	0800	0371	3489	2775	0004293	0343	14787								
131		OBS	T0855	0369	34892	2775			14796								
		STD	0900	0367	3489	2776	0004304	0386	14802								
		STD	1000	0364	3489	2776	0004339	0429	14818								
		STD	1100	0361	3490	2776	0004380	0473	14833								
		STD	1200	0359	3490	2777	0004431	0517	14849								
		STD	1300	0357	3490	2777	0004481	0562	14865								
131		OBS	T1314	0357	34897	2777			14867								

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

31	875	8X	5632 N	05105 W		186	61	03	01	132	1967	B23	003	3567	14	33	1	2		X2	7	8		0003
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	OIR.	SPEED OR FORCE	METER (mbars)		DRY BULB	WET BULB															
					17	517	946	-011	-011	7		14												

MESSNGR TIME OF HR 1/10	CASI 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 $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S C C
132		STD	0000	0348	3481	2771	0003969	0000	14644								
		OBS	0000	0348	34807	2771			14644								
		STD	0010	0348	3481	2771	0003959	0004	14646								
		STD	0020	0349	3481	2771	0003972	0008	14648								
132		OBS	0023	0349	34812	2771			14648								
		STD	0030	0349	3481	2771	0003966	0012	14649								
132		OBS	0048	0349	34810	2771			14652								
		STD	0050	0349	3481	2771	0003999	0020	14653								
		STD	0075	0347	3481	2771	0004001	0030	14656								
132		OBS	0095	0346	34804	2771			14659								
		STD	0100	0346	3480	2771	0004057	0040	14660								
		STD	0125	0345	3481	2771	0004066	0050	14663								
132		OBS	0143	0345	34806	2771			14666								
		STD	0150	0345	3481	2771	0004078	0060	14668								
132		OBS	T0195	0347	34809	2771			14676								
		STD	0200	0347	3481	2771	0004115	0081	14677								
132		OBS	0240	0348	34808	2771			14684								
		STL	0250	0347	3481	2771	0004164	0101	14685								
132		OBS	0288	0345	34806	2771			14690								
		STD	0300	0348	3481	2771	0004201	0122	14694								
132		OBS	T0382	0365	34841	2772			14715								
		STD	0400	0369	3485	2772	0004203	0164	14719								
132		OBS	0477	0378	34864	2772			14736								
		STD	0500	0376	3487	2773	0004254	0207	14739								
132		OBS	T0574	0372	34868	2773			14750								
		STD	0600	0372	3487	2773	0004266	0249	14754								
		STD	0700	0373	3489	2775	0004216	0292	14772								
132		OBS	0762	0374	34897	2775			14782								
		STD	0800	0371	3490	2776	0004226	0334	14787								
		STD	0900	0365	3490	2776	0004236	0376	14802								
132		OBS	T0950	0362	34898	2777			14809								
		STD	1000	0361	3490	2777	0004261	0419	14817								
		STD	1100	0359	3490	2777	0004323	0462	14833								
		STD	1200	0358	3490	2777	0004384	0505	14849								
		STD	1300	0356	3490	2777	0004443	0549	14865								
		STD	1400	0354	3490	2778	0004501	0594	14881								
132		OBS	T1447	0353	34903	2778			14888								

REFERENCE		SHIP CODE	LATITUDE *	LONGITUDE * '1/10	DRAFT INDEX	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
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	875	BX	5631 N	05106 W	186	01	03	03	133	1967	B23	004	3547	16	33	4	2	X8	0	4	0004	
WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL										
COLOR		TRANS.		DIR.		SPEED		METER		ORY		WEI		CODE		OBS.		OBSERVATIONS				
32		525		926		-006		-011		4		14										

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D 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	S C C
		STD	0000	0341													
133		OBS	0000	0341													
		STD	0010	0341													
		STD	0020	0341													
133		OBS	0026	0341													
		STD	0030	0341													
		STD	0050	0343													
133		OBS	0052	0343													
		STD	0075	0343													
		STD	0100	0344													
133		OBS	0104	0344													
		STD	0125	0345													
		STD	0150	0347													
133		OBS	0155	0347													
		STD	0200	0348													
133		OBS	T0210	0349													
		STD	0250	0356													
133		OBS	0260	0358													
		STD	0300	0365													
133		OBS	0312	0366													
		STD	0400	0369													
133		OBS	T0417	0370													
		STD	0500	0355													
133		OBS	0520	0353													
		STD	0600	0354													
133		OBS	T0624	0354													
		STD	0700	0364													
		STD	0800	0370													
133		OBS	0836	0371													
		STD	0900	0366													
		STD	1000	0359													
133		OBS	T1045	0357													
		STD	1100	0356													
		STD	1200	0355													
		STD	1300	0353													
		STD	1400	0352													
		STD	1500	0350													
133		OBS	T1580	0349													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IQ. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	875	8X	5627 N	05057 W	186	60	03	05	169	1967	823	005	3567	35	25	3	3	X2	5	8	0005	
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB	VIS. CODE													
				24	526	895	000	-006	3	19												
MESSNGR 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 - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C					
		STD	0000	0352	3483	2772	0003833	0000	14646													
135		OBS	0000	0352	34830	2772			14646													
		STD	0010	0352	3483	2772	0003839	0004	14648													
		STD	0020	0351	3483	2772	0003844	0008	14649													
		STD	0030	0351	3483	2772	0003840	0012	14651													
135		OBS	0030	0351	34826	2772			14651													
		STD	0050	0353	3483	2772	0003905	0019	14655													
135		OBS	0055	0354	34828	2772			14656													
		STD	0075	0354	3483	2772	0003922	0029	14659													
		STD	0100	0353	3483	2772	0003940	0039	14663													
135		OBS	0119	0353	34830	2772			14666													
		STD	0125	0353	3483	2772	0003946	0049	14667													
		STD	0150	0355	3483	2772	0003965	0059	14672													
135		OBS	0178	0356	34835	2772			14677													
		STD	0200	0358	3484	2772	0003990	0079	14682													
135		OBS	T0239	0362	34845	2772			14690													
		STD	0250	0363	3485	2772	0004038	0099	14692													
135		OBS	0297	0366	34849	2772			14701													
		STD	0300	0366	3485	2772	0004090	0119	14702													
135		OBS	0357	0362	34843	2772			14709													
		STD	0400	0372	3487	2773	0004085	0160	14721													
135		OBS	T0476	0382	34893	2774			14738													
		STD	0500	0381	3489	2774	0004122	0201	14742													
		STD	0600	0378	3489	2774	0004209	0243	14757													
135		OBS	0600	0378	34886	2774			14757													
		STD	0700	0378	3490	2775	0004165	0284	14774													
135		OBS	T0723	0377	34908	2776			14777													
		STD	0800	0372	3491	2776	0004171	0326	14788													
		STD	0900	0366	3490	2776	0004218	0368	14802													
135		OBS	0975	0362	34900	2777			14813													
		STD	1000	0361	3490	2777	0004257	0410	14817													
		STD	1100	0359	3490	2777	0004291	0453	14833													
		STD	1200	0357	3491	2778	0004324	0496	14848													
		STD	1300	0355	3491	2778	0004362	0540	14864													
135		OBS	T1321	0354	34910	2778			14868													
		STD	1400	0354	3491	2779	0004402	0583	14881													
		STD	1500	0353	3492	2779	0004453	0628	14897													
		STD	1750	0352	3493	2780	0004565	0740	14939													
135		OBS	T1853	0351	34929	2780			14956													
		STD	2000	0345	3494	2781	0004594	0855	14979													
169		OBS	T2010	0345	34936	2781			14981													
		STD	2500	0316	3493	2784	0004580	1084	15052													
169		OBS	T2525	0314	34929	2784			15056													
		STD	3000	0274	3493	2787	0004269	1306	15121													
169		OBS	T3024	0271	34934	2788			15124													
169		OBS	T3456	0218	34911	2791			15176													
169		OBS	3545	0188	34907	2793			15179													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HBL INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER						
CITY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT							
31	875	BX	5626 N	05057 W	186	60	03	07	131	1967	023	006	3475	14	27	4	3	XB	6	6	0006								
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		SPECIAL OBSERVATIONS																			
COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB		WET BULB																			
						27		525		963		-027		-027		6		14											

MESSAGE HR. 1/10	CAST TIME OF NO.	CARD TYPE	DEPTH (m)	T °C	S ...	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S.D. DIV. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$	pH	S.C.C.
		STD	0000	0342	3482	2773	0003765	0000	14642								
131		OBS	0000	0342	34824	2773			14642								
		STD	0010	0344	3482	2772	0003815	0004	14644								
		STD	0020	0347	3483	2772	0003837	0008	14647								
131		OBS	0022	0347	34825	2772			14647								
		STD	0030	0347	3483	2772	0003854	0011	14649								
131		OBS	0043	0348	34825	2772			14651								
		STD	0050	0348	3483	2772	0003867	0019	14652								
		STD	0075	0347	3483	2772	0003868	0029	14656								
131		OBS	0086	0347	34829	2773			14658								
		STD	0100	0348	3483	2772	0003886	0039	14661								
		STD	0125	0349	3483	2772	0003926	0046	14665								
131		OBS	0128	0349	34828	2772			14666								
		STD	0150	0348	3483	2772	0003939	0058	14669								
131		OBS	T0172	0347	34828	2772			14672								
		STD	0200	0346	3483	2772	0003971	0070	14677								
131		OBS	0214	0348	34829	2772			14680								
		STD	0250	0350	3483	2772	0004048	0098	14686								
131		OBS	0257	0350	34826	2772			14687								
		STD	0300	0350	3483	2772	0004071	0118	14695								
131		OBS	T0341	0350	34832	2773			14701								
		STD	0400	0351	3483	2772	0004155	0159	14712								
131		OBS	0426	0352	34832	2772			14716								
		STD	0500	0351	3483	2772	0004229	0201	14728								
131		OBS	0513	0351	34833	2772			14730								
		STD	0600	0368	3487	2774	0004219	0244	14752								
131		OBS	0693	0376	34890	2775			14772								
		STD	0700	0375	3489	2775	0004236	0286	14772								
		STD	0800	0369	3489	2776	0004226	0326	14786								
131		OBS	0877	0364	34897	2776			14797								
		STD	0900	0363	3490	2777	0004198	0370	14801								
		STD	1000	0358	3490	2777	0004224	0412	14815								
		STD	1100	0355	3490	2777	0004272	0455	14831								
		STD	1200	0353	3490	2778	0004329	0498	14847								
		STD	1300	0352	3490	2778	0004398	0541	14865								
131		OBS	T1358	0352	34904	2778			14873								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
31	875	BX	5632 N	05102 W	186 61	03	10	139	1967	B23	007	3567	13	25	5	4	X8	6	8	0007	

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (%)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		23	526	942	-067	-078	4	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ⁷	$\frac{\Delta \sigma}{\Delta \rho}$ 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
		STO	0000	0344													
139		OBS	0000	0344													
		STD	0010	0351													
		STD	0020	0358													
139		OBS	0022	0359													
		STD	0030	0354													
139		OBS	0046	0346													
		STD	0050	0346													
		STD	0075	0346													
139		OBS	0091	0346													
		STO	0100	0347													
		STD	0125	0348													
		STD	0150	0349													
139		OBS	0185	0351													
		STD	0200	0355													
		STD	0250	0364													
139		OBS	0278	0367													
		STO	0300	0367													
139		OBS	T0370	0367													
		STO	0400	0368													
139		OBS	0462	0369													
		STD	0500	0366													
139		OBS	T0548	0363													
		STD	0600	0364													
		STD	0700	0365													
139		OBS	0734	0365													
		STD	0800	0364													
		STD	0900	0363													
139		OBS	T0926	0363													
		STD	1000	0362													
		STD	1100	0360													
		STD	1200	0357													
		STD	1300	0354													
139		OBS	T1343	0352													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	875	BX	56265N	050268W	186	60	03	12	141	1967	823	008	3613	15	31	4	2	X4	6	6	0008
		WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIL CODE									
		30		S20		078		-039		-050		6		14							
MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	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 ₂ -Si µg-at/l	PH	S C C				
		STD	0000	0341	3483	2773	0003723	0000	14641												
141		OBS	0000	0341	34831	2773			14641												
		STD	0010	0341	3483	2773	0003754	0004	14643												
		STD	0020	0341	3482	2773	0003793	0008	14645												
141		OBS	0026	0341	34822	2773			14646												
		STD	0030	0341	3482	2773	0003817	0011	14646												
		STD	0050	0342	3482	2773	0003834	0019	14650												
141		OBS	0053	0342	34823	2773			14650												
		STD	0075	0343																	
		STD	0100	0345																	
141		OBS	0106	0345																	
		STD	0125	0346																	
		STD	0150	0347																	
141		OBS	0159	0347																	
		STD	0200	0346																	
		OBS	0212	0346																	
		STD	0250	0345																	
141		OBS	0265	0344																	
		STD	0300	0343																	
141		OBS	0316	0342																	
		STD	0400	0343																	
141		OBS	T0423	0343																	
		STD	0500	0345																	
141		OBS	0511	0345																	
		STD	0600	0346																	
141		OBS	T0607	0346																	
		STD	0700	0346																	
		STD	0800	0345																	
141		OBS	0806	0345																	
		STD	0900	0355																	
141		OBS	T0995	0363																	
		STD	1000	0363																	
		STD	1100	0361																	
		STD	1200	0359																	
		STD	1300	0356																	
		STD	1400	0354																	
141		OBS	T1499	0352																	

REFERENCE		SHIP CODE	LATITUDE I/10	LONGITUDE '/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRN CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA	
31	875	BX	5631 N	05100 W	186	61	03	14	122	1967	823	009	3567	15	24	2	2	X2	7	8	0009

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		22	521	081	-061	-061	6	14	

MESSNGR TIME OF HR 1/10	CASST 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 $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C
		STD	0000	0343													
122		OBS	0000	0343													
		STD	0010	0342													
		STD	0020	0342													
122		OBS	0026	0341													
		STD	0030	0341													
		STD	0050	0341													
122		OBS	0051	0341													
		STD	0075	0341													
		STD	0100	0340													
122		OBS	0101	0340													
		STD	0125	0343													
		STD	0150	0345													
122		OBS	0150	0345													
122		OBS	T0199	0344													
		STD	0200	0344													
122		OBS	0247	0344													
		STD	0250	0344													
122		OBS	0294	0345													
		STD	0300	0345													
122		OBS	T0388	0344													
		STD	0400	0344													
122		OBS	0465	0346													
		STD	0500	0346													
122		OBS	0581	0346													
		STD	0600	0346													
		STD	0700	0347													
122		OBS	0774	0347													
		STD	0800	0349													
		STD	0900	0354													
122		OBS	T0965	0357													
		STD	1000	0357													
		STD	1100	0356													
		STD	1200	0355													
		STD	1300	0354													
		STD	1400	0354													
122		OBS	T1466	0353													

Table V. Observed and interpolated oceanographic data for station taken by USCGC ESCANABA at Ocean Station BRAVO, 6-24 April 1967, prepared from NODC listing No. 31-887 EN.

REFERENCE		SHIP CODE	LATITUDE 1.10	LONGITUDE 1.10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA			
31	887					EN	5653 N	05028 W	186	60	04	06	131	1967	824	001	16	16	2	3	X7	5
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	35	522			098	017	000	5	14								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _T	Σ Δ δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - μl/l	TOTAL-P μg - μl/l	NO ₂ -N μg - μl/l	NO ₃ -N μg - μl/l	SiO ₄ -Si μg - μl/l	pH	S CODE
		STD	0000	0365	3485	2773	0003783	0000	14652								
131		OBS	0000	0365	34853	2773			14652								
		STD	0010	0365	3486	2773	0003735	0004	14653								
		STD	0020	0364	3486	2773	0003740	0007	14653								
131		OBS	0020	0364	34863	2774			14656								
		STD	0030	0364	3486	2774	0003725	0011	14657								
		STD	0050	0364	3486	2774	0003735	0019	14660								
131		OBS	0051	0364	34864	2774			14660								
		STD	0075	0364	3486	2774	0003758	0028	14664								
		STD	0100	0364	3487	2774	0003772	0037	14668								
131		OBS	0101	0364	34865	2774			14668								
		STD	0125	0365	3487	2774	0003794	0047	14673								
		STD	0150	0367	3487	2774	0003816	0056	14678								
131		OBS	0151	0367	34869	2774			14678								
		STD	0200	0365	3487	2774	0003834	0076	14685								
131		OBS	T0200	0365	34870	2774			14685								
		STD	0250	0366	3487	2774	0003881	0095	14694								
131		OBS	0250	0366	34871	2774			14694								
		STD	0300	0366	3487	2774	0003933	0114	14702								
131		OBS	0301	0366	34868	2774			14702								
		STD	0400	0365	3487	2774	0004011	0154	14718								
131		OBS	0400	0365	34870	2774			14718								
		STD	0500	0365	3487	2774	0004099	0195	14733								
131		OBS	0501	0365	34870	2774			14733								
		STD	0600	0362	3487	2775	0004132	0236	14750								
131		OBS	0602	0362	34873	2775			14750								
		STD	0700	0359	3487	2775	0004204	0277	14763								
		STD	0800	0355	3487	2775	0004250	0320	14780								
131		OBS	0813	0355	34866	2775			14782								
		STD	0900	0356	3486	2775	0004305	0363	14798								
		STD	1000	0358	3489	2776	0004324	0406	14813								
131		OBS	T1022	0358	34888	2776			14819								
		STD	1100	0358	3489	2776	0004381	0449	14832								
		STD	1200	0358	3489	2777	0004441	0493	14849								
		STD	1300	0358	3490	2777	0004508	0536	14866								
		STD	1400	0356	3490	2777	0004542	0583	14882								
		STD	1500	0354	3490	2778	0004575	0629	14898								
131		OBS	T1592	0352	34903	2778			14912								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA			
31	887					EN	5623 N	05102 W	186	61	04	07	134	1967	824	002	04	33	2	5	X9	5
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	05	505			017	033	022	7	09								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _T	Σ Δ δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - μl/l	TOTAL-P μg - μl/l	NO ₂ -N μg - μl/l	NO ₃ -N μg - μl/l	SiO ₄ -Si μg - μl/l	pH	S CODE
		STD	0000	0341	3482	2773	0003776	0000	14641								
134		OBS	0000	0341	34824	2773			14641								
		STD	0010	0340	3483	2773	0003762	0004	14643								
		STD	0020	0339	3483	2773	0003756	0008	14644								
134		OBS	0025	0339	34828	2773			14645								
		STD	0030	0339	3483	2773	0003753	0011	14645								
		STD	0050	0336	3483	2773	0003760	0019	14648								
134		OBS	0050	0336	34828	2773			14648								
		STD	0075	0338	3483	2773	0003776	0028	14652								
		STD	0100	0337	3483	2773	0003800	0038	14656								
134		OBS	0100	0337	34827	2773			14656								
		STD	0125	0340	3483	2773	0003826	0047	14662								
		STD	0150	0342	3483	2773	0003851	0057	14667								
134		OBS	0150	0342	34832	2773			14667								
		STD	0200	0345													
134		OBS	T0202	0345													
		STD	0250	0347													
134		OBS	0251	0347													
		STD	0300	0343													
134		OBS	0301	0343													
134		OBS	T0399	0349													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN INDEX	MARSOEN 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						
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT					
31	887	EN	56140N	050590W	186	60	04	08	124	1967	B24	003		16	34	2	13		X1	7	6	0003						
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER		ORY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		24		511		166		-017		-028		7		13														

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO 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 C
		STD	0000	0338													
124		OBS	0000	0338													
		STD	0010	0338													
		STD	0020	0337													
124		OBS	0025	0337													
		STD	0030	0337													
		STD	0050	0338													
124		OBS	0053	0338													
		STD	0075	0338													
		STD	0100	0338													
124		OBS	0109	0338													
		STD	0125	0339													
		STD	0150	0340													
124		OBS	0163	0341													
		STD	0200	0340													
124		OBS	T0218	0339	34820	2773				14676							
		STD	0250	0343	3483	2773	0003959			14683							
		STD	0300	0348	3484	2773	0003976			14694							
124		OBS	0325	0350	34843	2773				14699							
		STD	0400	0351	3485	2774	0004013			14711							
124		OBS	T0426	0351	34851	2774				14716							
		STD	0500	0351	3486	2774	0004055			14728							
124		OBS	0500	0351	34856	2774				14728							
124		OBS	T0575	0351	34855	2774				14741							
		STD	0600	0351	3486	2774	0004147			14745							
		STD	0700	0352	3486	2774	0004222			14762							
124		OBS	0767	0352	34858	2774				14773							
		STD	0800	0354	3486	2774	0004309			14779							
		STD	0900	0360	3488	2775	0004312			14799							
124		OBS	0983	0363	34892	2776				14814							
		STD	1000	0363	3489	2776	0004339			14817							
		STD	1100	0361	3489	2776	0004385			14833							
		STD	1200	0359	3490	2777	0004430			14849							
		STD	1300	0357	3490	2777	0004482			14865							
		STD	1400	0355	3490	2777	0004525			14881							
		STD	1500	0353	3490	2778	0004566			14897							
124		OBS	T1570	0352	34902	2778				14908							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT NO.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	887	EN	5639 N	050383W		186	60	04	10	125	1967	B24	004		14	21	5	4		X1	0		0004
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		DIR.		METER (mb)		DRY BULB		WET BULB													
				19		S28		081		046		044		7		14							

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-110°	Σ Δ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		STD	0000	0350	3486	2775	0003558	0000	14646								
125		OBS	0000	0350	34864	2775			14646								
		STD	0010	0350	3486	2775	0003567	0004	14647								
		STD	0020	0350	3486	2775	0003576	0007	14649								
125		OBS	0024	0350	34864	2775			14650								
		STD	0030	0350	3486	2775	0003592	0011	14651								
125		OBS	0047	0350	34861	2775			14653								
		STD	0050	0350	3486	2775	0003633	0018	14654								
		STD	0075	0351	3486	2775	0003659	0027	14658								
125		OBS	0094	0351	34858	2774			14661								
		STD	0100	0351	3486	2775	0003684	0036	14662								
		STD	0125	0351	3486	2775	0003706	0045	14667								
125		OBS	0140	0351	34864	2775			14669								
		STD	0150	0351	3486	2775	0003698	0055	14671								
125		OBS	T0187	0351	34865	2775			14677								
		STD	0200	0351	3486	2775	0003738	0073	14679								
125		OBS	0226	0350	34861	2775			14683								
		STD	0250	0351	3486	2775	0003788	0092	14687								
125		OBS	0262	0351	34864	2775			14689								
		STD	0300	0349	3488	2776	0003690	0111	14695								
125		OBS	0333		34888												
		STD	0400	0345	3488	2777	0003717	0148	14710								
125		OBS	0404	0345	34882	2777			14710								
125		OBS	T0486	0345	34882	2777			14724								
		STD	0500	0345	3488	2777	0003797	0185	14726								
		STD	0600	0344	3488	2777	0003868	0224	14742								
125		OBS	0680	0343	34881	2777			14755								
		STD	0700	0343	3488	2777	0003950	0263	14759								
		STD	0800	0344	3488	2777	0004029	0303	14776								
125		OBS	0887	0344	34882	2777			14790								
		STD	0900	0344	3488	2777	0004110	0343	14793								
		STD	1000	0346	3489	2777	0004171	0385	14810								
		STD	1100	0349	3490	2778	0004233	0427	14828								
		STD	1200	0351	3490	2778	0004295	0470	14846								
		STD	1300	0353	3491	2778	0004357	0513	14864								
		STD	1400	0355	3491	2778	0004421	0557	14881								
125		OBS	T1442	0356	34916	2779			14889								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIR. INDICATOR	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE	
31	887	EN	56395N	051065W		186	61	04	11	122	1967	024	005	15	07	2	2	X4	5	8	0005

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		07	520	963	028	028	5	14	

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S.C.C.
		STD	0000	0347	3486	2775	0003553	0000	14644								
		OBS	0000	0347	34861	2775			14644								
		STD	0010	0343	3486	2776	0003517	0004	14644								
		STD	0020	0341	3486	2776	0003499	0007	14645								
		OBS	0026	0340	34863	2776			14646								
		STD	0030	0340	3486	2776	0003525	0011	14646								
		OBS	0047	0342	34859	2775			14650								
		STD	0050	0342	3486	2775	0003564	0018	14650								
		STD	0075	0342	3486	2776	0003558	0027	14654								
		STD	0100	0341	3487	2776	0003552	0035	14658								
		OBS	0101	0341	34865	2776			14658								
		STD	0125	0342	3486	2775	0003624	0044	14663								
		STD	0150	0344	3486	2775	0003659	0054	14668								
		OBS	0152	0344	34858	2775			14668								
		STD	0200	0341	3486	2776	0003674	0072	14675								
		OBS	T0202	0341	34860	2776			14675								
		OBS	0249	0340	34869	2776			14682								
		STD	0250	0340	3487	2776	0003637	0090	14683								
		OBS	0294	0341	34862	2776			14690								
		STD	0300	0341	3486	2776	0003734	0109	14691								
		OBS	0374	0341	34870	2776			14704								
		STD	0400	0341	3487	2776	0003761	0146	14708								
		OBS	0444	0342	34872	2776			14716								
		STD	0500	0343	3487	2776	0003864	0184	14725								
		OBS	T0520	0343	34869	2776			14729								
		STD	0600	0343	3487	2776	0003953	0223	14742								
		STD	0700	0344	3487	2776	0004040	0263	14759								
		OBS	0710	0344	34871	2776			14761								
		STD	0800	0344	3487	2776	0004115	0304	14776								
		STD	0900	0344	3487	2776	0004196	0346	14792								
		OBS	0919	0344	34871	2776			14795								
		STD	1000	0345	3488	2777	0004243	0388	14809								
		STD	1100	0346	3489	2777	0004276	0430	14827								
		STD	1200	0348	3489	2777	0004328	0473	14844								
		STD	1300	0350	3490	2778	0004373	0517	14862								
		STD	1400	0353	3491	2778	0004439	0561	14880								
		OBS	T1473	0355	34913	2778			14894								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	REF. INDEX	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
31	887	EN	5639 N	050490W		186	60	04	14	178	1967	B24	006		15	02	2	5	X7	9	6	0006	
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											
				02		S 18		146		006		-011		7		14							

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	SEC
		STD	0000	0351	3485	2774	0003643	0000	14646								
178		OBS	0000	0351	34854	2774			14646								
		STD	0010	0345	3485	2775	0003596	0004	14645								
		STD	0020	0341	3485	2775	0003567	0007	14645								
178		OBS	0024	0340	34854	2775			14645								
		STD	0030	0340	3486	2775	0003559	0011	14646								
		STD	0050	0340	3486	2776	0003553	0018	14650								
178		OBS	0050	0340	34858	2776			14650								
		STD	0075	0339	3486	2776	0003557	0027	14653								
178		OBS	0099	0338	34860	2776			14657								
		STD	0100	0338	3486	2776	0003562	0036	14657								
		STD	0125	0341	3486	2776	0003611	0045	14662								
		STD	0150	0344	3465	2775	0003705	0054	14668								
178		OBS	0150	0344	34854	2775			14668								
		STD	0200	0344	3486	2775	0003740	0072	14676								
178		OBS	T0202	0344	34855	2775			14676								
		STD	0250	0345	3486	2775	0003792	0091	14685								
178		OBS	0250	0345	34855	2775			14685								
		STD	0300	0344	3486	2775	0003786	0110	14692								
178		OBS	0300	0344	34860	2775			14692								
178		OBS	T0394	0343	34659	2775			14706								
		STD	0400	0343	3486	2775	0003862	0148	14709								
178		OBS	0497	0348	34862	2775			14727								
		STD	0500	0348	3486	2775	0003980	0188	14727								
178		OBS	0520	0349	34863	2775			14731								
		STD	0600	0349	3486	2775	0004065	0228	14744								
		STD	0700	0348	3486	2775	0004145	0269	14761								
178		OBS	0798	0347	34861	2775			14776								
		STD	0800	0347	3486	2775	0004223	0311	14777								
		STD	0900	0346	3486	2775	0004293	0353	14793								
		STD	1000	0345	3486	2775	0004369	0397	14809								
178		OBS	1000	0345	34860	2775			14809								
		STD	1100	0347	3487	2776	0004425	0441	14827								
		STD	1200	0350	3487	2776	0004489	0485	14845								
		STD	1300	0352	3488	2776	0004546	0530	14863								
		STD	1400	0355	3489	2776	0004604	0576	14881								
		STD	1500	0357	3489	2777	0004663	0622	14899								
178		OBS	T1505	0357	34894	2777			14900								

REFERENCE		SHIP CODE	LATITUDE ° / 10'	LONGITUDE ° / 10'	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.			
31	887	EN	5626 N	050590W	186 60	04	16	006	1967	024	007	13	33	3	3	X7	4 B	0007	
WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	DRY BULB	WET BULB	VIS. CODE												
			32	S16	166	006	000	5	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 $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	Si O ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C
		STD	0000	0345	3486	2775	0003572	0000	14643								
006		OBS	0000	0345	34856	2775			14643								
		STD	0010	0342	3486	2775	0003555	0004	14644								
		STD	0020	0340	3486	2775	0003539	0007	14644								
006		OBS	0022	0339	34856	2775			14644								
		STD	0030	0339	3486	2775	0003546	0011	14646								
006		OBS	0043	0340	34857	2775			14648								
		STD	0050	0340	3486	2775	0003560	0018	14650								
		STD	0075	0340	3486	2775	0003589	0027	14654								
006		OBS	0088	0340	34855	2775			14656								
		STD	0100	0341	3486	2775	0003628	0036	14658								
		STD	0125	0343	3486	2775	0003671	0045	14663								
006		OBS	0131	0344	34850	27750											
		STD	0150	0345	3485	2775	0003715	0054	14668								
006		OBS	T0177	0346	34854	2775			14673								
		STD	0200	0346	3486	2775	0003722	0073	14677								
006		OBS	0220	0346	34864	2775			14680								
		STD	0250	0347	3487	2775	0003733	0091	14685								
006		OBS	0263	0347	34866	2776			14688								
		STD	0300	0347	3487	2776	0003741	0110	14694								
006		OBS	T0346	0347	34873	2776			14702								
		STD	0400	0348	3487	2776	0003831	0148	14711								
006		OBS	0439	0348	34869	2776			14717								
		STD	0500	0348	3487	2776	0003927	0187	14727								
006		OBS	0529	0347	34869	2776			14732								
		STD	0600	0344	3486	2775	0004034	0226	14742								
006		OBS	0686	0341	34857	2775			14755								
		STD	0700	0341	3486	2776	0004084	0267	14756								
		STD	0800	0342	3486	2776	0004170	0308	14774								
006		OBS	0884	0342	34869	2776			14789								
		STD	0900	0342	3487	2776	0004192	0350	14792								
		STD	1000	0344	3487	2776	0004283	0392	14809								
		STD	1100	0346	3487	2776	0004377	0436	14826								
		STD	1200	0346	3487	2776	0004469	0480	14844								
		STD	1300	0349	3487	2776	0004556	0525	14862								
006		OBS	T1342	0350	34874	2776			14869								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIR SPEED	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DR.	HGT.		PER.	SEA	
31	887	EN	56335N	05101 W		186	61	04	18	177	1967	824	008	16	01	2	3	X1	6	6		0008
WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED (kts)	MBAR	DRY BULB	WET BULB	TEMP.															
		32	S12	149	039	022	7	14														

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SCC
		STD	0000	0352	3485	2774	0003690	0000	14646								
177		OBS	0000	0352	34849	2774			14646								
		STD	0010	0346	3485	2774	0003643	0004	14645								
		STD	0020	0342	3485	2775	0003621	0007	14645								
177		OBS	0027	0340	34848	2775			14646								
		STD	0030	0340	3485	2775	0003605	0011	14646								
		STD	0050	0341	3486	2775	0003584	0018	14650								
177		OBS	0052	0341	34856	2775			14650								
		STD	0075	0340	3486	2775	0003588	0027	14654								
177		OBS	0094	0339	34855	2775			14656								
		STD	0100	0339	3486	2775	0003612	0036	14657								
		STD	0125	0341	3486	2775	0003648	0045	14662								
		STD	0150	0343	3485	2775	0003692	0054	14667								
177		OBS	0156	0343	34854	2775			14668								
		STD	0200	0345	3486	2775	0003746	0073	14676								
177		OBS	T0210	0345	34855	2775			14678								
		STD	0250	0344	3486	2775	0003769	0092	14684								
177		OBS	0262	0343	34856	2775			14686								
		STD	0300	0343	3486	2775	0003799	0111	14692								
177		OBS	0315	0343	34858	2775			14695								
		STD	0400	0341	3486	2775	0003857	0149	14708								
177		OBS	T0423	0340	34856	2775			14711								
		STD	0500	0340	3486	2775	0003940	0188	14724								
177		OBS	0524	0340	34856	2775			14728								
		STD	0600	0342	3486	2775	0004035	0228	14741								
177		OBS	0629	0343	34857	2775			14747								
		STD	0700	0342	3486	2775	0004120	0269	14758								
		STD	0800	0341	3486	2775	0004190	0310	14774								
177		OBS	0838	0341	34857	2775			14780								
		STD	0900	0343	3486	2775	0004266	0352	14792								
		STD	1000	0346	3486	2775	0004380	0396	14810								
177		OBS	1048	0347	34864	2775			14818								
		STD	1100	0348	3487	2776	0004410	0440	14827								
		STD	1200	0350	3487	2776	0004514	0484	14845								
		STD	1300	0352	3488	2776	0004545	0529	14863								
		STD	1400	0353	3489	2777	0004564	0575	14880								
		STD	1500	0354	3489	2777	0004656	0621	14897								
177		OBS	T1577	0355	34901	2777			14911								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUA RE	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	TYPE	
31	887	EN	5615 N	05046 W	186	60	04	19	120	1967	B24	009		16	33	2	4	X2	6	8	0009	

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			
		31	S15	254	011	-017	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	S Δ D DTN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - 01/1	TOTAL-P µg - 01/1	NO ₂ -N µg - 01/1	NO ₃ -N µg - 01/1	SiO ₄ -Si µg - 01/1	pH	S C C
		STD	0000	0344	3486	2775	0003570	0000	14643								
120		OBS	0000	0344	34855	2775			14643								
		STD	0010	0343	3486	2775	0003569	0004	14644								
		STD	0020	0342	3486	2775	0003569	0007	14645								
120		OBS	0026	0341	34855	2775			14646								
		STD	0030	0341	3486	2775	0003565	0011	14647								
		STD	0050	0339	3485	2775	0003576	0018	14649								
120		OBS	0052	0339	34854	2775			14649								
		STD	0075	0339	3485	2775	0003591	0027	14653								
		STD	0100	0338	3485	2775	0003607	0036	14657								
120		OBS	0104	0338	34854	2775			14658								
		STD	0125	0339	3486	2775	0003631	0045	14662								
		STD	0150	0341	3486	2775	0003658	0054	14666								
120		OBS	0156	0341	34856	2775			14667								
		STD	0200	0341	3486	2775	0003696	0072	14675								
120		OBS	T0209	0341	34857	2775			14676								
		STD	0250	0341	3486	2775	0003730	0091	14683								
120		OBS	0261	0341	34858	2775			14685								
		STD	0300	0342	3486	2776	0003764	0110	14692								
120		OBS	0312	0342	34861	2776			14694								
		STD	0400	0344	3487	2776	0003792	0147	14709								
120		OBS	T0413	0344	34874	2776			14711								
		STD	0500	0343	3487	2776	0003899	0186	14723								
120		OBS	0515	0343	34864	2776			14728								
		STD	0600	0347	3487	2776	0003994	0225	14744								
120		OBS	0617	0348	34872	2776			14747								
		STD	0700	0345	3487	2776	0004062	0266	14759								
		STD	0800	0342	3487	2776	0004137	0307	14775								
120		OBS	0827	0341	34864	2776			14779								
		STD	0900	0342	3487	2776	0004210	0348	14791								
		STD	1000	0344	3487	2776	0004298	0391	14809								
120		OBS	T1040	0345	34869	2776			14816								
		STD	1100	0346	3487	2776	0004401	0434	14827								
		STD	1200	0348	3487	2775	0004512	0479	14844								
		STD	1300	0350	3487	2775	0004623	0525	14862								
		STD	1400	0352	3487	2775	0004734	0571	14879								
		STD	1500	0354	3486	2775	0004846	0619	14897								
120		OBS	T1578	0355	34863	2774			14911								

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

31	887	EN	56311N	050381W		186	60	04	20	120	1967	824	010		15	04	2	3		X7	6	8		0010	
		WATER		WIND		BARO-METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mbal)		DRY BULB	WET BULB	VIS. CODE															
					05	522	149	-006	-022	7			14												

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-310?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	STC
		STD	0000	0338	3486	2776	0003462	0000	14641								
120		OBS	0000	0338	34862	2776			14641								
		STD	0010	0338	3486	2776	0003466	0003	14642								
		STD	0020	0337	3486	2776	0003470	0007	14643								
		STD	0030	0336	3486	2776	0003480	0010	14645								
120		OBS	0038	0336	34861	2776			14646								
		STD	0050	0336	3486	2776	0003501	0017	14648								
120		OBS	0052	0336	34860	2776			14648								
		STD	0075	0336	3486	2776	0003514	0026	14652								
		STD	0100	0336	3486	2776	0003527	0035	14656								
120		OBS	0103	0336	34862	2776			14657								
		STD	0125	0337	3486	2776	0003556	0044	14661								
		STD	0150	0338	3486	2776	0003594	0053	14665								
120		OBS	0153	0338	34861	2776			14666								
		STD	0200	0337	3486	2776	0003635	0071	14673								
120		OBS	T0203	0337	34860	2776			14674								
		STD	0250	0335	3486	2776	0003657	0089	14680								
120		OBS	0252	0335	34860	2776			14681								
		STD	0300	0337	3486	2776	0003716	0107	14689								
120		OBS	0302	0337	34860	2776			14690								
120		OBS	T0397	0339	34864	2776			14706								
		STD	0400	0339	3486	2776	0003790	0145	14707								
120		OBS	0497	0342	34869	2776			14724								
		STD	0500	0342	3487	2776	0003865	0183	14725								
120		OBS	0595	0344	34865	2776			14741								
		STD	0600	0344	3487	2776	0003998	0223	14742								
		STD	0700	0345	3487	2776	0004076	0263	14759								
120		OBS	0795	0346	34868	2776			14776								
		STD	0800	0346	3487	2776	0004160	0304	14776								
		STD	0900	0343	3487	2776	0004207	0346	14792								
120		OBS	T0996	0341	34867	2776			14807								
		STD	1000	0341	3487	2776	0004249	0388	14808								
		STD	1100	0342	3487	2776	0004337	0431	14825								
		STD	1200	0343	3487	2776	0004424	0475	14842								
		STD	1300	0343	3487	2776	0004511	0520	14859								
		STD	1400	0344	3487	2776	0004597	0565	14876								
		STD	1500	0345	3487	2776	0004684	0612	14893								
120		OBS	T1547	0345	34873	2776			14901								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	ORIG. PROJ.	MASSELEN 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	
31	887	EN	5624 N	05016 W	186	60	04	23	182	1967	B24	011		15	30	3	3	X7	X9			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			
			29	S19	027	-017	-017	6	14

MESSNGR 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 - 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	SCC
		STD	0000	0337	3465	2775	0003528	0000	14640								
182		OBS	0000	0337	34852	2775			14640								
		STD	0010	0336	3485	2775	0003530	0004	14641								
		STD	0020	0336	3485	2776	0003531	0007	14643								
182		OBS	0027	0335	34852	2776			14644								
		STD	0030	0335	3485	2776	0003536	0011	14644								
182		OBS	0049	0336	34854	2776			14648								
		STD	0050	0336	3485	2776	0003546	0018	14648								
		STD	0075	0336	3485	2776	0003566	0027	14652								
182		OBS	0094	0336	34854	2776			14655								
		STD	0100	0336	3485	2776	0003588	0036	14656								
		STD	0125	0337	3486	2776	0003599	0044	14660								
182		OBS	0139	0348Q	34857	2775Q											
		STD	0150	0337	3486	2776	0003617	0054	14665								
182		OBS	T0190	0338	34859	2776			14672								
		STD	0200	0338	3486	2776	0003647	0072	14674								
182		OBS	0226	0339	34863	2776			14678								
		STD	0250	0339	3486	2776	0003690	0090	14682								
182		OBS	0272	0338	34859	2776			14685								
		STD	0300	0338	3486	2776	0003734	0109	14690								
182		OBS	T0365	0338	34859	2776			14701								
		STD	0400	0338	3486	2776	0003816	0146	14706								
182		OBS	0452	0338	34859	2776			14715								
		STD	0500	0341	3486	2776	0003921	0185	14724								
182		OBS	0542	0343	34863	2776			14732								
		STD	0600	0341	3486	2776	0003997	0225	14741								
		STD	0700	0336	3486	2776	0004033	0265	14756								
182		OBS	0730	0335	34858	2776			14760								
		STD	0800	0339	3486	2776	0004142	0306	14773								
		STD	0900	0343	3486	2775	0004266	0348	14792								
182		OBS	T0922	0344	34864	2776			14796								
		STD	1000	0347	3487	2776	0004318	0391	14810								
		STD	1100	0349	3487	2776	0004422	0434	14828								
		STD	1200	0351	3487	2775	0004526	0479	14845								
		STD	1300	0352	3488	2776	0004545	0524	14863								
		STD	1400	0352	3488	2776	0004624	0570	14880								
182		OBS	T1465	0352	34884	2776			14891								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT. FMS	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	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	887	EN	5609 N	05050 W		186	60	04	24	121	1967	824	012		15	32	2	4		X7	8	6	0012

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			
		33	515	993	-028	-028	7	14	

MESSENGER 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 $\mu\text{g} - \text{ol/l}$	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 C
		STD	0000	0338	3485	2775	0003553	0000	14640								
121		OBS	0000	0338	34850	2775			14640								
		STD	0010	0336	3485	2775	0003545	0004	14641								
		STD	0020	0335	3465	2775	0003539	0007	14642								
121		OBS	0024	0334	34846	2775			14643								
		STD	0030	0334	3485	2775	0003573	0011	14644								
121		OBS	0048	0335	34847	2775			14647								
		STD	0050	0335	3485	2775	0003588	0018	14647								
		STD	0075	0334	3484	2775	0003622	0027	14651								
121		OBS	0096	0333	34841	2775			14654								
		STD	0100	0333	3484	2775	0003652	0036	14655								
		STD	0125	0335	3485	2775	0003664	0045	14660								
121		OBS	0144	0336	34847	2775			14663								
		STD	0150	0336	3485	2775	0003683	0054	14664								
121		OBS	T0195	0338	34848	2775			14672								
		STD	0200	0338	3485	2775	0003734	0073	14673								
121		OBS	0241	0338	34846	2775			14680								
		STD	0250	0337	3485	2775	0003751	0091	14681								
121		OBS	0289	0336	34851	2775			14687								
		STD	0300	0336	3485	2775	0003775	0110	14689								
121		OBS	T0383	0337	34852	2775			14703								
		STD	0400	0339	3485	2775	0003863	0149	14707								
121		OBS	0482	0347	34861	2775			14724								
		STD	0500	0347													
121		OBS	0578	0347													
		STD	0600	0347													
		STD	0700	0346													
121		OBS	0772	0346													
		STD	0800	0346													
		STD	0900	0345													
121		OBS	T0967	0344													
		STD	1000	0345													
		STD	1100	0348													
		STD	1200	0350													
		STD	1300	0353													
		STD	1400	0355													
121		OBS	T1464	0357													

Table VI. Observed and interpolated oceanographic data for stations taken by USCGC SPENCER at Ocean Station BRAVO, 27 May-6 June 1967, prepared from NODC listing No. 31-1063 SC.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIR. INDIC.	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			
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER SEA				PER	PER	TYPE
311063		SC	5627 N	05104 W		180	61	05	27	156	1967	825	001	3650	16	02	2	0	X2	7	8	0001	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLDR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mbs)		DRY BULB		WET BULB		VIS. CODE							
						32		S08		268		072		056		7		14					
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME (ANOMALY-210°)	Σ Δ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CGC						
		STD	0000	0465	3461	2759	0005084	0000	14693														
156		OBS	0000	0465	34614	2759			14693														
		STD	0010	0461	3461	2759	0005090	0005	14693														
		STD	0020	0454	3481	2759	0005057	0010	14692														
156		OBS	0026	0448	34802	2760			14690														
		STD	0030	0442	3481	2761	0004934	0015	14689														
		STD	0050	0416	3483	2765	0004521	0025	14681														
156		OBS	0052	0413	34830	2766			14680														
		STD	0075	0380	3464	2770	0004094	0035	14670														
		STD	0100	0357	3464	2772	0003893	0045	14665														
156		OBS	0103	0355	34842	2773			14664														
		STD	0125	0355	3485	2773	0003820	0055	14668														
		STD	0150	0355	3485	2773	0003842	0065	14672														
156		OBS	0155	0355	34854	2774			14673														
		STD	0200	0358	3486	2774	0003835	0084	14662														
156		OBS	T0209	0358	34866	2774			14684														
		STD	0250	0358	3487	2774	0003838	0103	14690														
156		OBS	0259	0358	34866	2774			14692														
		STD	0300	0357	3486	2774	0003919	0122	14698														
156		OBS	0311	0357	34859	2774			14700														
		STD	0400	0357	3487	2775	0003958	0162	14715														
156		OBS	T0413	0357	34667	2775			14717														
		STD	0500	0358	3486	2774	0004097	0202	14731														
156		OBS	0518	0358	34858	2774			14734														
		STD	0600	0358	3466	2774	0004185	0243	14748														
156		OBS	0621	0358	34866	2774			14752														
		STD	0700	0356	3487	2775	0004204	0285	14764														
		STD	0800	0354	3487	2775	0004261	0328	14780														
156		OBS	0831	0353	34866	2775			14765														
		STD	0900	0353	3467	2775	0004343	0371	14796														
		STD	1000	0353	3486	2775	0004440	0415	14813														
156		OBS	T1040	0353	34862	2775			14819														
		STD	1100	0354	3467	2775	0004511	0459	14830														
		STD	1200	0356	3467	2775	0004561	0505	14847														
		STD	1300	0357	3488	2776	0004604	0551	14865														
		STD	1400	0359	3489	2776	0004655	0597	14883														
		STD	1500	0361	3490	2776	0004706	0644	14900														
156		OBS	T1573	0362	34900	2777			14913														

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311063	SC		5631 N	05107 W		186	61	05	28	092	1967	525	002	3658	15	36	1	0	X2	8	8	0002

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
			29	S03	244	072	050	7	14

MESSENGER TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-10 ⁷	$\frac{\Delta \sigma}{\sigma}$ 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	3 C C
		STD	0000	0458	3484	2762	0004807	0000	14691								
092		OBS	0000	0458	3484	2762			14691								
		STD	0010	0435	3484	2764	0004570	0005	14685								
		STD	0020	0420	3484	2766	0004419	0009	14678								
092		OBS	0025	0415	34844	2767			14677								
		STD	0030	0416	3485	2767	0004334	0014	14678								
		STD	0050	0419	3486	2768	0004310	0022	14683								
092		OBS	0051	0419	34820	27640											
		STD	0075	0390	3487	2771	0003968	0033	14675								
		STD	0100	0369	3487	2774	0003784	0042	14670								
092		OBS	0102	0368	34871	2774			14670								
		STD	0125	0365	3487	2774	0003766	0052	14673								
		STD	0150	0362	3487	2774	0003755	0061	14675								
092		OBS	0154	0361	34867	2774			14676								
		STD	0200	0361	3487	2774	0003794	0080	14685								
092		OBS	T0205	0361	34875	2775			14684								
		STD	0250	0356	3487	2775	0003786	0099	14689								
092		OBS	0257	0355	34868	2775			14690								
		STD	0300	0358	3487	2775	0003647	0116	14698								
092		OBS	0308	0358	34870	2775			14700								
		STD	0400	0355	3487	2775	0003881	0157	14714								
092		OBS	T0411	0355	34875	2775			14716								
		STD	0500	0354	3487	2775	0003983	0196	14730								
092		OBS	0514	0354	34867	2775			14732								
		STD	0600	0352	3487	2775	0004050	0236	14746								
092		OBS	0618	0352	34874	2776			14749								
		STD	0700	0351	3487	2776	0004090	0277	14762								
		STD	0800	0350	3488	2776	0004156	0318	14776								
092		OBS	0825	0350	34875	2776			14782								
		STD	0900	0350	3488	2776	0004230	0360	14795								
		STD	1000	0349	3488	2776	0004307	0403	14811								
092		OBS	1030	0349	34875	2776			14816								
		STD	1100	0350	3488	2776	0004362	0446	14828								
		STD	1200	0352	3488	2776	0004464	0490	14846								
		STD	1300	0354	3488	2776	0004567	0535	14864								
		STD	1400	0356	3489	2777	0004596	0581	14881								
		STD	1500	0357	3489	2776	0004698	0628	14899								
092		OBS	T1538	0358	34896	2777			14906								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYPE AMT	NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER				SEA
311063		SC	5634 N	05100 W		186	61	05	29	109	1967	825	003	5658	14	08	2	2	X2	7	8	0003

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		08	S08	234	056	050	7	14	

MESSENGR TIME of HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY - σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	χ _{CD}
		STD	0000	0488	3483	2757	0005227	0000	14703								
109		OBS	0000	0488	34828	2757			14703								
		STD	0010	0437	3483	2763	0004718	0005	14683								
		STD	0020	0405	3482	2766	0004418	0010	14672								
109		OBS	0023	0399	34822	2767			14670								
		STD	0030	0404	3482	2766	0004417	0014	14673								
109		OBS	0045	0407	34826	2766			14677								
		STD	0050	0398	3483	2767	0004324	0023	14674								
		STD	0075	0362	3483	2771	0003994	0033	14663								
109		OBS	0092	0349	34839	2773			14660								
		STD	0100	0351	3484	2773	0003835	0043	14662								
		STD	0125	0356	3485	2773	0003830	0052	14669								
109		OBS	0137	0358	34855	2774			14671								
		STD	0150	0358	3486	2774	0003799	0062	14674								
109		OBS	T0184	0359	34866	2774			14680								
		STD	0200	0355	3486	2774	0003810	0081	14681								
109		OBS	0229	0351	34859	2775			14684								
		STD	0250	0353	3486	2774	0003833	0100	14688								
109		OBS	0274	0355	34867	2775			14693								
		STD	0300	0352	3487	2775	0003821	0119	14696								
109		OBS	T0365	0349	34862	2775			14705								
		STD	0400	0350	3486	2775	0003916	0158	14712								
109		OBS	0455	0352	34862	2775			14722								
		STD	0500	0353	3487	2775	0004009	0198	14729								
109		OBS	T0547	0354	34869	2775			14738								
		STD	0600	0353	3487	2775	0004061	0238	14746								
		STD	0700	0351	3487	2775	0004136	0279	14762								
109		OBS	0726	0350	34867	2775			14766								
		STD	0800	0350	3487	2775	0004200	0321	14778								
		STD	0900	0349	3487	2776	0004261	0363	14794								
109		OBS	T0911	0349	34870	2776			14796								
		STD	1000	0350	3487	2776	0004323	0406	14812								
		STD	1100	0351	3488	2776	0004379	0449	14829								
		STD	1200	0354	3488	2776	0004467	0494	14847								
		STD	1300	0357	3469	2776	0004547	0539	14865								
		STD	1400	0361	3489	2776	0004649	0585	14884								
109		OBS	T1413	0362	34893	2776			14886								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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
311063	SC		5631 N	05058 W	186	60	05	31	098	1967	825	004	3612	18	04	2	2	X2	6	8	0004

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS MTR	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		04	S06	213	067	061	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. HL. $\times 10^3$	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	0476	3482	2758	0005142	0000	14698								
098		OBS	0000	0476	34822	2758			14698								
		STD	0010	0474	3482	2758	0005142	0005	14699								
		STD	0020	0471	3482	2758	0005150	0010	14699								
098		OBS	0029	0469	34815	2759			14700								
		STD	0030	0467	3482	2759	0005124	0015	14699								
		STD	0050	0424	3483	2764	0004611	0025	14685								
098		OBS	0055	0415	34830	2766			14682								
		STD	0075	0386	3484	2769	0004176	0036	14673								
		STD	0100	0361	3485	2772	0003694	0046	14667								
098		OBS	0112	0353	34849	2774			14665								
		STD	0125	0353	3485	2774	0003808	0056	14667								
		STD	0150	0353	3485	2774	0003622	0065	14671								
098		OBS	0168	0353	34850	2774			14674								
		STD	0200	0350	3486	2774	0003791	0084	14678								
098		OBS	T0221	0349	34860	2775			14682								
		STD	0250	0348	3486	2775	0003784	0103	14680								
098		OBS	0278	0347	34856	2775			14690								
		STD	0300	0347	3486	2775	0003635	0122	14694								
098		OBS	0334	0346	34858	2775			14699								
		STD	0400	0350	3487	2776	0003856	0161	14712								
098		OBS	0446	0352	34875	2776			14720								
		STD	0500	0352	3487	2776	0003931	0200	14729								
098		OBS	0559	0351	34872	2776			14739								
		STD	0600	0351	3487	2775	0004035	0240	14745								
098		OBS	T0673	0350	34868	2775			14757								
		STD	0700	0350	3487	2776	0004106	0280	14761								
		STD	0800	0350	3487	2776	0004184	0222	14778								
		STD	0900	0349	3487	2776	0004260	0264	14794								
098		OBS	0905	0349	34873	2776			14795								
		STD	1000	0350	3488	2776	0004281	0407	14812								
		STD	1100	0352	3488	2776	0004378	0450	14829								
098		OBS	T1142	0352	34882	2776			14836								
		STD	1200	0353	3489	2776	0004440	0494	14846								
		STD	1300	0353	3489	2777	0004491	0539	14863								
		STD	1400	0354	3489	2777	0004547	0584	14881								
		STD	1500	0354	3490	2777	0004597	0630	14896								
		STD	1750	0354	3491	2778	0004714	0746	14940								
098		OBS	T1764	0354	34910	2778			14942								

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

311063		SC	5629 N	05104 W		186	61	06	01	097	1967	825	005	3500	18	07	2	2	X	7	0005						
WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																	
COLOR		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE															
						07		S08		186		061		056		7											

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta D$ 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 C
		STD	0000	0477	3484	2760	0005025	0000	14699								
097		OBS	0000	0477	34839	2760			14699								
		STD	0010	0475	3484	2760	0005036	0005	14699								
		STD	0020	0473	3483	2760	0005047	0010	14700								
097		OBS	0028	0471	34831	2760			14701								
		STD	0030	0464	3483	2760	0004972	0015	14698								
		STD	0050	0409	3484	2767	0004383	0024	14678								
097		OBS	0056	0397	34839	2768			14674								
		STD	0075	0388	3486	2771	0004023	0035	14674								
		STD	0100	0378	3487	2773	0003872	0045	14674								
097		OBS	0113	0374	34872	2773			14675								
		STD	0125	0372	3487	2773	0003836	0054	14676								
		STD	0150	0368	3486	2773	0003894	0064	14678								
097		OBS	0169	0365	34858	2773			14680								
		STD	0200	0359	3486	2774	0003880	0084	14682								
097		OBS	T0224	0356	34854	2774			14685								
		STD	0250	0357	3486	2774	0003868	0103	14690								
097		OBS	0281	0357	34862	2774			14695								
		STD	0300	0359	3486	2774	0003914	0122	14699								
097		OBS	0338	0362	34866	2774			14706								
		STD	0400	0359	3467	2774	0003964	0162	14716								
097		OBS	T0450	0357	34870	2775			14723								
		STD	0500	0357	3487	2775	0004010	0202	14731								
097		OBS	0563	0356	34870	2775			14741								
		STD	0600	0358	3487	2775	0004110	0242	14748								
097		OBS	0676	0361	34870	2774			14762								
		STD	0700	0360	3487	2775	0004217	0284	14766								
		STD	0800	0356	3487	2775	0004255	0326	14781								
		STD	0900	0352	3487	2775	0004289	0369	14795								
097		OBS	0912	0351	34866	2775			14797								
		STD	1000	0351	3487	2775	0004369	0412	14812								
		STD	1100	0352	3487	2775	0004455	0456	14829								
097		OBS	T1155	0352	34874	2776			14838								
		STD	1200	0352	3488	2776	0004498	0501	14846								
		STD	1300	0353	3488	2776	0004563	0546	14863								
		STD	1400	0354	3488	2776	0004621	0592	14880								
		STD	1500	0354	3489	2776	0004680	0639	14897								
		STD	1750	0356	3490	2777	0004631	0758	14941								
097		OBS	T1791	0356	34898	2777			14948								

REFERENCE		SNIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARKSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311063	SC	5627 N	05100 W	186	61	06	02	099	1967	825	006	3580	19	18	2	2	X2	7	8	0006			

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			
		18	S10	188	067	061	7	14	

MESSNGR TIME & HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ D DYN. W. 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	Si C C
		STD	0000	0498	3482	2756	0005397	0000	14707								
099		OBS	0000	0498	34820	2756			14707								
		STD	0010	0491	3483	2757	0005294	0005	14706								
		STD	0020	0480	3483	2759	0005141	0011	14703								
		STD	0030	0464	3484	2761	0004942	0016	14696								
099		OBS	0030	0464	34836	2761			14698								
		STD	0050	0412	3485	2768	0004315	0025	14680								
099		OBS	0059	0394	34855	2770			14674								
		STD	0075	0383	3486	2771	0003974	0035	14672								
		STD	0100	0369	3486	2773	0003859	0045	14670								
099		OBS	0121	0361	34867	2774			14670								
		STD	0125	0361	3487	2774	0003750	0055	14671								
		STD	0150	0360	3487	2774	0003770	0064	14675								
099		OBS	0184	0359	34864	2774			14680								
		STD	0200	0359	3486	2774	0003819	0083	14682								
099		OBS	T0248	0358	34864	2774			14690								
		STD	0250	0358	3486	2774	0003853	0102	14690								
		STD	0300	0358	3487	2774	0003882	0121	14699								
099		OBS	0313	0358	34866	2774			14701								
099		OBS	0378	0359	34868	2774			14712								
		STD	0400	0359	3487	2774	0003966	0161	14715								
		STD	0500	0356	3486	2774	0004049	0201	14731								
099		OBS	T0505	0356	34864	2774			14732								
		STD	0600	0358	3487	2774	0004142	0242	14748								
099		OBS	0631	0358	34865	2774			14753								
		STD	0700	0357	3486	2774	0004240	0284	14765								
099		OBS	T0750	0357	34862	2774			14773								
		STD	0800	0356	3486	2774	0004321	0326	14781								
		STD	0900	0355	3486	2774	0004383	0370	14797								
		STD	1000	0354	3486	2775	0004452	0414	14813								
099		OBS	1005	0354	34863	2775			14814								
		STD	1100	0354	3487	2775	0004513	0459	14830								
		STD	1200	0353	3487	2775	0004582	0504	14846								
099		OBS	T1253	0353	34867	2775			14855								
		STD	1300	0354	3487	2775	0004637	0550	14863								
		STD	1400	0355	3487	2775	0004730	0597	14881								
		STD	1500	0356	3487	2775	0004824	0645	14898								
		STD	1750	0358	3489	2776	0004911	0767	14942								
099		OBS	T1899	0360	34896	2777			14968								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER 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	
3	11063	SC	5631 N	05052 W		180	60	06	03	098	1967	825	007	3567	18	17	2		X2	7	8	0007	

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		17	510	020	056	050	7	14	

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si D ₄ -Si μg - at/l	pH	σ _t C
		STD	0000	0478	3478	2755	0005464	0000	14698								
098		OBS	0000	0478	3478	2755			14698								
		STD	0010	0452	3478	2758	0005183	0005	14689								
		STD	0020	0434	3479	2760	0004998	0010	14683								
098		OBS	0025	0427	3478	2761			14681								
		STD	0030	0427	3479	2761	0004884	0015	14682								
		STD	0050	0422	3482	2764	0004673	0025	14684								
098		OBS	0051	0421	34817	2764			14683								
		STD	0075	0384	3482	2768	0004261	0036	14672								
		STD	0100	0360	3483	2771	0004004	0046	14666								
098		OBS	0102	0359	34829	2771			14666								
		STD	0125	0359	3484	2772	0003934	0056	14670								
		STD	0150	0359	3484	2772	0003956	0066	14674								
098		OBS	0154	0359	34841	2772			14675								
		STD	0200	0357	3484	2773	0003945	0086	14681								
098		OBS	T0208	0356	34845	2773			14682								
		STD	0250	0358	3486	2774	0003918	0106	14690								
098		OBS	0257	0358	34857	2774			14691								
		STD	0300	0360	3486	2774	0003966	0125	14699								
098		OBS	0307	0360	34857	2773			14700								
		STD	0400	0356	3487	2775	0003928	0165	14714								
098		OBS	T0410	0355	34869	2775			14715								
		STD	0500	0356	3486	2774	0004061	0205	14731								
098		OBS	0526	0356	34860	2774			14735								
		STD	0600	0355	3486	2774	0004157	0246	14747								
098		OBS	0642	0355	34860	2774			14754								
		STD	0700	0354	3486	2774	0004225	0288	14763								
		STD	0800	0352	3486	2775	0004286	0330	14779								
098		OBS	0889	0351	34860	2775			14793								
		STD	0900	0351	3486	2775	0004357	0373	14795								
		STD	1000	0351	3486	2775	0004419	0417	14812								
		STD	1100	0350	3486	2775	0004488	0462	14828								
098		OBS	T1142	0350	34864	2775			14835								
		STD	1200	0351	3487	2775	0004526	0507	14845								
		STD	1300	0353	3487	2775	0004627	0553	14863								
		STD	1400	0354	3487	2775	0004728	0600	14880								
		STD	1500	0356	3488	2776	0004756	0647	14898								
		STD	1750	0360	3489	2776	0004936	0768	14942								
098		OBS	1792	0361	34896	2777			14950								

REFERENCE		SNIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES (TYPE AMT)	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT			
311063	SC		5633 N	05057 W	186 60	06	05	102	1967	825	008	3612	14	13	1	2	X1	7 5	0000	
		WATER		WIND		BARO-METER		AIR TEMP. °C			VIC. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
		COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB		WET BULB										
				13		S06		078		067		050		7		14				

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Delta \sigma_{\theta}$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g-at/l}$	TOTAL-P $\mu\text{g-at/l}$	NO ₂ -N $\mu\text{g-at/l}$	NO ₃ -N $\mu\text{g-at/l}$	SiO ₄ -Si $\mu\text{g-at/l}$	pH	S C
		STD	0000	0497	3483	2757	0005288	0000	14707								
102		OBS	0000	0497	34833	2757			14707								
		STD	0010	0487	3484	2758	0005138	0005	14704								
		STD	0020	0470	3485	2761	0004890	0010	14699								
102		OBS	0023	0464	34852	2762			14697								
		STD	0030	0440	3485	2765	0004561	0015	14688								
102		OBS	0048	0392	34854	2770			14671								
		STD	0050	0390	3486	2771	0004019	0024	14671								
		STD	0075	0374	3487	2773	0003810	0033	14668								
102		OBS	0095	0365	34874	2774			14668								
		STD	0100	0364	3488	2775	0003697	0043	14668								
		STD	0125	0362	3488	2775	0003678	0052	14672								
102		OBS	0143	0360	34880	2775			14674								
		STD	0150	0359	3488	2775	0003655	0061	14674								
102		OBS	0192	0357	34876	2775			14680								
		STD	0200	0357	3488	2775	0003713	0080	14682								
102		OBS	0240	0359	34876	2775			14689								
		STD	0250	0359	3488	2775	0003743	0098	14691								
102		OBS	0288	0359	34884	2776			14697								
		STD	0300	0359	3488	2776	0003757	0117	14699								
102		OBS	T0386	0358	34880	2776			14713								
		STD	0400	0358	3488	2776	0003864	0155	14715								
102		OBS	0478	0357	34870	2775			14728								
		STD	0500	0357	3487	2775	0004001	0194	14731								
102		OBS	T0578	0358	34878	2775			14745								
		STD	0600	0358	3488	2775	0004039	0235	14749								
		STD	0700	0360	3488	2775	0004142	0275	14766								
102		OBS	0767	0361	34885	2776			14778								
		STD	0800	0360	3488	2775	0004228	0317	14783								
		STD	0900	0356	3488	2776	0004266	0360	14797								
102		OBS	T0956	0355	34878	2776			14806								
		STD	1000	0355	3488	2776	0004338	0403	14814								
		STD	1100	0355	3488	2776	0004423	0447	14831								
		STD	1200	0356	3488	2776	0004507	0491	14847								
		STD	1300	0356	3488	2776	0004590	0537	14864								
		STD	1400	0356	3489	2777	0004600	0583	14881								
102		OBS	T1444	0356	34891	2777			14889								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	CHIT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
31	1063	SC	5629 N	05059 W		186	60	06	06	095	1967	525	009	3603	13	03	03		X4	7	8	0009

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			
		05	506	132	072	061	3	14	

MESSAGE TIME HR 1-10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C
		STD	0000	0539	3475	2745	0006582	0000	14723								
095		OBS	0000	0539	34750	2745			14723								
		STD	0010	0506	3475	2749	0006044	0006	14712								
		STD	0020	0483	3475	2752	0005781	0012	14703								
095		OBS	0025	0473	34749	2753			14700								
		STD	0030	0468	3475	2754	0005630	0018	14699								
095		OBS	0049	0444	34766	2757			14692								
		STD	0050	0442	3477	2758	0005226	0029	14691								
		STD	0075	0392	3481	2767	0004439	0041	14675								
095		OBS	0099	0361	34828	2771			14666								
		STD	0100	0361	3463	2771	0004006	0051	14666								
		STD	0125	0354	3483	2772	0003961	0061	14667								
095		OBS	0149	0351	34832	2772			14670								
		STD	0150	0351	3483	2772	0003938	0071	14670								
		STD	0200	0352	3485	2773	0003878	0091	14679								
095		OBS	T0202	0352	34848	2774			14680								
095		OBS	0249	0358	34852	2773			14690								
		STD	0250	0358	3485	2773	0003943	0110	14690								
095		OBS	0296	0358	34859	2774			14698								
		STD	0300	0358	3486	2774	0003926	0130	14698								
095		OBS	T0399	0361	34864	2774			14716								
		STD	0400	0361	3486	2774	0004014	0170	14716								
095		OBS	0494	0352	34860	2775			14728								
		STD	0500	0352	3486	2775	0004036	0210	14729								
095		OBS	T0594	0352	34864	2775			14745								
		STD	0600	0352	3486	2775	0004090	0251	14746								
		STD	0700	0353	3487	2775	0004164	0292	14762								
095		OBS	0792	0353	34868	2775			14778								
		STD	0800	0353	3487	2775	0004223	0334	14779								
		STD	0900	0353	3487	2775	0004300	0376	14796								
095		OBS	T0992	0352	34877	2776			14811								
		STD	1000	0352	3488	2776	0004326	0419	14812								
		STD	1100	0353	3488	2776	0004391	0463	14830								
		STD	1200	0354	3489	2776	0004455	0507	14847								
		STD	1300	0356	3489	2776	0004522	0552	14864								
		STD	1400	0357	3489	2777	0004594	0598	14882								
		STD	1500	0358	3490	2777	0004659	0644	14899								
095		OBS	T1526	0358	34897	2777			14904								

Table VII. Observed and interpolated oceanographic data for stations taken by USCGC SEBAGO at Ocean Station BRAVO, 29 June-21 July 1967, prepared from NODC listing No. 31-1092 S5.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. NO.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	1092	S5	5632 N	05057 W	186	60	06	29	200	1967	B26	001	3566	14	30	3	3		3	8		0001
WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANSP. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
				22	512	145	089	071	7	14												
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S.C.C.					
		STD	0000	0575	3473	2739	0006937	0000	14737													
200		OBS	0000	0575	3473	2739			14737													
		STD	0010	0572	3473	2740	0006911	0007	14738													
		STD	0020	0568	3473	2740	0006884	0014	14738													
200		OBS	0024	0567	3473	2740			14738													
		STD	0030	0558	3474	2742	0006739	0021	14735													
200		OBS	0049	0523	3475	2747			14724													
		STD	0050	0519	3475	2748	0006194	0034	14723													
		STD	0075	0433	3480	2762	0004918	0047	14692													
200		OBS	0098	0381	3484	2771			14675													
		STD	0100	0380	3485	2771	0004065	0059	14675													
		STD	0125	0365	3484	2772	0003962	0069	14672													
200		OBS	0146	0357	3484	2773			14672													
		STD	0150	0357	3484	2773	0003921	0079	14675													
200		OBS	T0196	0357	3484	2773			14681													
		STD	0200	0357	3485	2773	0003942	0098	14681													
200		OBS	0244	0356	3484	2773			14688													
		STD	0250	0356	3485	2773	0003938	0118	14689													
200		OBS	0293	0355	3485	2774			14696													
		STD	0300	0355	3485	2774	0003956	0138	14697													
200		OBS	T0390	0354	3485	2774			14712													
		STD	0400	0354	3485	2774	0004024	0178	14713													
200		OBS	0487	0354	3485	2774			14728													
		STD	0500	0354	3485	2774	0004102	0218	14730													
200		OBS	0585	0354	3485	2774			14744													
		STD	0600	0353	3486	2774	0004160	0260	14746													
		STD	0700	0351	3486	2774	0004215	0301	14762													
200		OBS	0780	0350	3485	2774			14775													
		STD	0800	0350	3486	2775	0004266	0344	14778													
		STD	0900	0351	3486	2775	0004359	0387	14795													
200		OBS	T0972	0352	3486	2775			14808													
		STD	1000	0352	3487	2775	0004381	0431	14813													
		STD	1100	0354	3487	2775	0004480	0475	14830													
		STD	1200	0355	3488	2776	0004506	0520	14847													
		STD	1300	0357	3488	2776	0004605	0565	14865													
		STD	1400	0358	3489	2776	0004631	0612	14882													
200		OBS	T1439	0359	3489	2776			14889													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INDIC. N	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NGOC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			OIR	HGT	PER	SEA		TYPE	AMT		
31	1092	S5	5633 N	05100 W		186	61	06	30	203	1967	B26	002	3566	15	14	1	2	X1	0	2	0002		
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	OIR	SPEED OR FORCE	METER (mbal)	DRY BULB	WET BULB	NO. OBS. DEPTHS											
								14	S10	168	083	073	7	14										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₂ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SCC							
		STD	0000	0647	3474	2730	0007781	0000	14766															
203		OBS	0000	0647	34737	2730			14766															
		STD	0010	0620	3474	2734	0007451	0008	14757															
		STD	0020	0595	3474	2737	0007151	0015	14749															
203		OBS	0024	0586	34739	2739			14746															
		STD	0030	0577	3474	2740	0006949	0022	14743															
203		OBS	0049	0538	34739	2744			14730															
		STD	0050	0533	3474	2745	0006452	0035	14728															
		STD	0075	0429	3481	2763	0004816	0049	14691															
203		OBS	0097	0372	34844	2771			14671															
		STD	0100	0371	3484	2771	0003999	0060	14671															
		STD	0125	0362	3484	2772	0003933	0070	14671															
203		OBS	0146	0357	34843	2773			14672															
		STD	0150	0357	3484	2773	0003914	0080	14673															
203		OBS	T0195	0356	34848	2773			14680															
		STD	0200	0356	3485	2773	0003910	0100	14681															
203		OBS	0244	0355	34850	2773			14688															
		STD	0250	0355	3485	2773	0003929	0119	14689															
203		OBS	0294	0356	34852	2773			14696															
		STD	0300	0356	3485	2773	0003966	0139	14697															
203		OBS	T0388	0353	34853	2774			14711															
		STD	0400	0353	3485	2774	0004014	0179	14713															
203		OBS	0489	0352	34854	2774			14727															
		STD	0500	0353	3486	2774	0004046	0219	14729															
203		OBS	T0588	0355	34861	2774			14745															
		STD	0600	0355	3486	2774	0004145	0260	14747															
		STD	0700	0352	3486	2775	0004196	0302	14762															
203		OBS	0784	0350	34861	2775			14775															
		STD	0800	0350	3486	2775	0004256	0344	14778															
		STD	0900	0350	3486	2775	0004323	0387	14795															
203		OBS	T0970	0350	34865	2775			14806															
		STD	1000	0351	3487	2775	0004360	0431	14812															
		STD	1100	0352	3487	2775	0004462	0475	14829															
		STD	1200	0354	3488	2776	0004491	0519	14847															
		STD	1300	0356	3488	2776	0004595	0565	14865															
		STD	1400	0358	3489	2776	0004625	0611	14882															
203		OBS	1459	0359	34893	2776			14893															

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
311	092	S5	5630 N	05100 W	186	61	07	01	150	1967	B26	003	3566	14	22	1	2	X4	0	3	0003
WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. IMT		DIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS							
								23		S13		129		110		089		7		14	

MESSNGR TIME HR 1/10	CASST 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 $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	ST C
		STD	0000	0658	3475	2730	0007638	0000	14771								
150		OBS	0000	0658	34748	2730			14771								
		STD	0010	0622	3475	2735	0007401	0008	14758								
		STD	0020	0591	3475	2739	0007036	0015	14747								
150		OBS	0024	0580	34748	2740			14743								
		STD	0030	0568	3475	2742	0006759	0022	14740								
150		OBS	0047	0529	34766	2748			14727								
		STD	0050	0516	3477	2750	0006033	0035	14722								
		STD	0075	0431	3483	2764	0004687	0048	14692								
150		OBS	0094	0390	34854	2770			14678								
		STD	0100	0389	3486	2770	0004094	0059	14679								
		STD	0125	0384	3486	2771	0004053	0069	14681								
150		OBS	0140	0380	34859	2772			14681								
		STD	0150	0375	3486	2772	0003979	0079	14661								
150		OBS	T0187	0366	34853	2773			14683								
		STD	0200	0368	3486	2773	0003977	0099	14686								
150		OBS	0233	0371	34859	2773			14693								
		STD	0250	0371	3486	2773	0004022	0119	14696								
150		OBS	0279	0371	34860	2773			14700								
		STD	0300	0368	3486	2773	0004029	0139	14703								
150		OBS	T0370	0360	34855	2773			14711								
		STD	0400	0360	3486	2773	0004071	0180	14716								
150		OBS	0464	0360	34855	2773			14726								
		STD	0500	0359	3486	2773	0004147	0221	14732								
150		OBS	T0556	0357	34855	2774			14740								
		STD	0600	0356	3486	2774	0004200	0262	14747								
		STD	0700	0353	3486	2774	0004251	0305	14763								
150		OBS	0743	0352	34855	2774			14769								
		STD	0800	0351	3486	2774	0004309	0348	14779								
		STD	0900	0350	3486	2775	0004364	0391	14795								
150		OBS	T0927	0350	34859	2775			14799								
		STD	1000	0352	3486	2775	0004444	0435	14812								
		STD	1100	0354	3487	2775	0004475	0480	14830								
		STD	1200	0356	3487	2775	0004582	0525	14847								
		STD	1300	0358	3488	2776	0004614	0571	14865								
		STD	1400	0360	3489	2776	0004648	0617	14883								
150		OBS	1416	0360	34895	2777			14886								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
CITY CODE	ID. NO.						10°	1°	MD		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT.			
311092		55	5631 N	05056 W		186 60	07	03	169	1967	B26	004	3658	35	16	1	4	X6	3	8	0004

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (mm)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
			16	510	036	093	080	7	18

MESSNGR TIME HR 1:10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SI O ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C
		STD	0000	0674	3469	2723	0008447	0000	14776								
169		OBS	0000	0674	34694	2723			14776								
		STD	0010	0638	3470	2729	0007959	0008	14764								
		STD	0020	0604	3470	2733	0007552	0016	14752								
169		OBS	0027	0582	34703	2736			14744								
		STD	0030	0573	3471	2738	0007148	0023	14741								
		STD	0050	0517	3473	2746	0006366	0037	14722								
169		OBS	0054	0507	34731	2748			14718								
		STD	0075	0458	3480	2759	0005198	0051	14703								
		STD	0100	0415	3485	2767	0004396	0063	14689								
169		OBS	0109	0403	34865	2770			14686								
		STD	0125	0393	3487	2771	0004084	0074	14684								
		STD	0150	0382	3486	2772	0004004	0084	14684								
169		OBS	0164	0377	34864	2772			14684								
		STD	0200	0374	3486	2772	0003992	0104	14689								
169		OBS	T0219	0372	34860	2773			14691								
		STD	0250	0369	3486	2773	0003994	0124	14695								
169		OBS	0272	0367	34859	2773			14698								
		STD	0300	0367	3486	2773	0004026	0144	14702								
169		OBS	0324	0366	34858	2773			14706								
		STD	0400	0363	3486	2773	0004073	0184	14717								
169		OBS	T0437	0362	34859	2773			14723								
		STD	0500	0360	3486	2774	0004128	0225	14732								
169		OBS	0545	0359	34858	2774			14739								
		STD	0600	0359	3486	2774	0004210	0267	14749								
169		OBS	T0662	0358	34858	2774			14758								
		STD	0700	0358	3486	2774	0004269	0310	14765								
		STD	0800	0357	3486	2774	0004342	0353	14761								
169		OBS	0873	0356	34862	2774			14793								
		STD	0900	0356	3487	2775	0004339	0396	14797								
		STD	1000	0355	3488	2776	0004342	0439	14814								
169		OBS	T1096	0355	34884	2776			14830								
		STD	1100	0355	3488	2776	0004390	0483	14831								
		STD	1200	0355	3489	2776	0004457	0527	14847								
		STD	1300	0355	3489	2776	0004523	0572	14864								
		STD	1400	0355	3489	2777	0004589	0618	14881								
		STD	1500	0355	3489	2777	0004661	0664	14898								
169		OBS	T1645	0355	34894	2777			14922								
		STD	1750	0355	3489	2777	0004866	0783	14940								
		STD	2000	0349	3489	2777	0004977	0906	14980								
201		OBS	T2222	0340	34889	2778			15014								
		STD	2500	0321	3490	2781	0004868	1152	15054								
201		OBS	T2786	0295	34906	2784			15093								
		STD	3000	0284	3492	2786	0004491	1386	15125								
201		OBS	T3338	0227	34932	2792			15160								
201		OBS	T3541	0169	34931	2796			15170								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NO. OF STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	092	S5	5630 N	05100 W		186	61	07	04	120	1967	B26	002	3576	15	27	3	14	X4	X	9	0005	

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		27	505	090	061	057	5	14	

MESSNGR TIME of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-K10 ³	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S.C.C.
		STD	0000	0667	3470	2725	0008312	0000	14774								
120		OBS	0000	0667	34700	2725			14774								
		STD	0010	0636	3471	2730	0007844	0008	14763								
		STD	0020	0603	3472	2735	0007361	0016	14752								
120		OBS	0025	0586	34730	2738			14746								
		STD	0030	0565	3473	2741	0006851	0023	14738								
		STD	0050	0491	3475	2751	0005926	0036	14711								
120		OBS	0051	0488	34748	2751			14710								
		STD	0075	0414	3479	2763	0004811	0049	14684								
		STD	0100	0366	3481	2769	0004205	0060	14668								
120		OBS	0101	0365	34815	2770			14668								
		STD	0125	0365	3483	2771	0004100	0071	14672								
		STD	0150	0364	3484	2771	0004042	0081	14676								
120		OBS	0152	0364	34836	2771			14676								
		STD	0200	0368	3485	2772	0004010	0101	14686								
120		OBS	T0205	0368	34851	2772			14687								
		STD	0250	0373	3486	2772	0004030	0121	14696								
120		OBS	0255	0373	34864	2773			14697								
		STD	0300	0369	3486	2773	0004031	0141	14703								
120		OBS	0306	0368	34860	2773			14704								
		STD	0400	0359	3485	2773	0004063	0182	14715								
120		OBS	T0405	0358	34854	2773			14716								
		STD	0500	0357	3486	2774	0004112	0223	14731								
120		OBS	0508	0357	34857	2774			14732								
		STD	0600	0357	3486	2774	0004174	0264	14748								
120		OBS	T0612	0357													
		STD	0700	0358	3486	2774	0004268	0306	14765								
		STD	0800	0359	3486	2774	0004364	0349	14782								
120		OBS	0814	0359	34862	2774			14784								
		STD	0900	0357	3487	2775	0004346	0393	14798								
		STD	1000	0354	3487	2775	0004395	0437	14813								
120		OBS	T1020	0353	34872	2775			14816								
		STD	1100	0354	3488	2776	0004403	0481	14830								
		STD	1200	0354	3488	2776	0004493	0525	14847								
		STD	1300	0355	3489	2777	0004511	0570	14864								
		STD	1400	0356	3489	2777	0004601	0616	14881								
		STD	1500	0357	3489	2776	0004691	0662	14899								
120		OBS	T1520	0357	34895	2777			14902								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	IDENT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311092		55	5634 N	05102 W		186	61	07	05	123	1967	B26	006	3566	15	34	2	14	X1	3	5	0006	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB											
				35		S12		126		067		051		7		14							
MISSING 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 $\mu\text{g} \cdot \text{ol}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ol}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ol}^{-1}$	SiO ₄ -S $\mu\text{g} \cdot \text{ol}^{-1}$	pH	S C C						
		STD	0000	0686	3473	2724	0008371	0000	14781														
123		OBS	0000	0686	34725	2724			14781														
		STD	0010	0627	3473	2732	0007627	0008	14760														
123		OBS	0018	0591	34726	2737			14747														
		STD	0020	0589	3473	2737	0007146	0015	14746														
		STD	0030	0575	3474	2740	0006917	0022	14742														
123		OBS	0048	0538	34764	2746			14731														
		STD	0050	0528	3477	2748	0006170	0036	14727														
		STD	0075	0423	3481	2763	0004754	0049	14688														
123		OBS	0097	0366	34832	2771			14668														
		STD	0100	0365	3483	2771	0004023	0060	14668														
		STD	0125	0361	3484	2772	0003953	0070	14671														
123		OBS	0145	0359	34846	2773			14673														
		STD	0150	0359	3485	2773	0003911	0080	14674														
123		OBS	T0197	0357	34848	2773			14681														
		STD	0200	0357	3485	2773	0003920	0100	14681														
123		OBS	0243	0356	34850	2773			14688														
		STD	0250	0356	3485	2773	0003939	0119	14689														
123		OBS	0291	0357	34853	2773			14696														
		STD	0300	0357	3485	2773	0003969	0139	14698														
123		OBS	T0388	0357	34852	2773			14712														
		STD	0400	0359	3485	2773	0004083	0179	14715														
123		OBS	0485	0365	34853	2773			14732														
		STD	0500	0363	3485	2773	0004197	0221	14734														
123		OBS	T0586	0356	34857	2774			14745														
		STD	0600	0356	3486	2774	0004163	0262	14747														
		STD	0700	0355	3486	2774	0004236	0304	14763														
123		OBS	0779	0354	34861	2774			14776														
		STD	0800	0354	3486	2775	0004291	0347	14780														
		STD	0900	0353	3487	2775	0004325	0390	14796														
123		OBS	T0969	0352	34870	2775			14807														
		STD	1000	0352	3487	2775	0004372	0434	14813														
		STD	1100	0353	3488	2776	0004427	0478	14830														
		STD	1200	0354	3488	2776	0004491	0522	14847														
		STD	1300	0355	3489	2776	0004546	0567	14864														
		STD	1400	0356	3489	2776	0004608	0613	14881														
		STD	1500	0357	3489	2777	0004665	0660	14899														
123		OBS	T1502	0357	34894	2777			14899														

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH (M)	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311092		S5	5630 N	05101 W		186	61	07	06	205	1967	826	007	3630	16	29	2	4	X1	6	6	0007	

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			
		29	S20	189	093	071	7	14	

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ol/l}$	TOTAL-P $\mu\text{g} \cdot \text{ol/l}$	NO ₂ -N $\mu\text{g} \cdot \text{ol/l}$	NO ₃ -N $\mu\text{g} \cdot \text{ol/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{ol/l}$	pH	S/C
		STD	0000	0703	3472	2721	0008661	0000	14788								
205		OBS	0000	0703	34716	2721			14788								
		STD	0010	0683	3472	2724	0008385	0009	14782								
		STD	0020	0656	3472	2728	0008052	0017	14775								
205		OBS	0028	0629	34724	2732			14763								
		STD	0030	0618	3473	2734	0007515	0025	14759								
		STD	0050	0523	3475	2747	0006262	0038	14725								
205		OBS	0054	0507	34755	2749			14719								
		STD	0075	0444	3478	2759	0005199	0053	14696								
		STD	0100	0389	3481	2767	0004432	0065	14678								
205		OBS	0109	0375	34815	2769			14674								
		STD	0125	0366	3482	2770	0004152	0075	14672								
		STD	0150	0356	3482	2771	0004077	0086	14672								
205		OBS	0163	0353	34824	2772			14673								
		STD	0200	0356	3483	2772	0004045	0106	14681								
205		OBS	0219	0357	34838	2772			14684								
		STD	0250	0356	3484	2773	0004017	0126	14689								
205		OBS	0273	0356	34847	2773			14693								
		STD	0300	0358	3485	2773	0004002	0146	14698								
205		OBS	0328	0360	34858	2774			14704								
		STD	0400	0357	3486	2774	0003973	0186	14715								
205		OBS	T0440	0356	34868	2775			14721								
		STD	0500	0357	3487	2775	0004017	0226	14731								
205		OBS	0544	0357	34870	2775			14739								
		STD	0600	0357	3487	2775	0004084	0267	14748								
205		OBS	T0653	0357	34873	2775			14757								
		STD	0700	0355	3487	2775	0004147	0308	14764								
		STD	0800	0353	3487	2775	0004216	0349	14779								
205		OBS	0866	0352	34870	2775			14790								
		STD	0900	0352	3487	2775	0004289	0392	14796								
		STD	1000	0353	3487	2775	0004362	0435	14813								
205		OBS	T1066	0353	34874	2776			14824								
		STD	1100	0353	3488	2776	0004435	0479	14830								
		STD	1200	0354	3488	2776	0004500	0524	14847								
		STD	1300	0354	3488	2776	0004558	0569	14864								
		STD	1400	0355	3489	2776	0004624	0615	14881								
		STD	1500	0355	3489	2776	0004688	0662	14898								
205		OBS	T1607	0356	34892	2777			14916								

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD COOES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311092		55	56298N	05055 W		186	60	07	07	206	1967	B26	008	3630	15	33	2	4		X1	0	6	0008
						WATER		WIND			BARO- METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. MM	DIR.	SPEED OF FORCE	METER	DRY RULB	WET RULB	VIS. CODE										
									30	506	172	091	072	7	14								
MESSNGR TIME HR 1/10	CASIT NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DTN, M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C						
		STD	0000	0765	3471	2712	0009524	0000	14812														
	205	OBS	0000	0765	34713	2712			14812														
		STD	0010	0730	3472	2717	0009039	0009	14800														
		STD	0020	0692	3472	2723	0008526	0018	14787														
	205	OBS	0024	0675	34720	2725			14781														
		STD	0030	0645	3473	2730	0007853	0026	14770														
		STD	0050	0553	3477	2745	0006489	0041	14737														
	205	OBS	0050	0553	34766	2745			14737														
		STD	0075	0446	3482	2762	0004920	0055	14698														
	205	OBS	0099	0381	34846	2771			14675														
		STD	0100	0381	3485	2771	0004082	0066	14675														
		STD	0125	0371	3485	2772	0004006	0076	14675														
	205	OBS	0149	0365	34845	2772			14676														
		STD	0150	0365	3485	2772	0003977	0086	14676														
		STD	0200	0361	3485	2772	0003982	0106	14683														
	205	OBS	0200	0361	34845	2772			14683														
		STD	0250	0362	3485	2773	0003998	0126	14692														
	205	OBS	0251	0362	34853	2773			14692														
		STD	0300	0358	3485	2773	0003988	0146	14698														
	205	OBS	0301	0358	34852	2773			14698														
	205	OBS	T0398	0358	34864	2774			14715														
		STD	0400	0358	3486	2774	0004013	0186	14715														
		STD	0500	0355	3486	2774	0004069	0226	14730														
	205	OBS	0502	0355	34859	2774			14731														
		STD	0600	0354	3486	2774	0004142	0267	14746														
	205	OBS	T0606	0354	34862	2774			14747														
		STD	0700	0353	3486	2775	0004180	0309	14763														
		STD	0800	0351	3487	2775	0004232	0351	14779														
	205	OBS	0805	0351	34866	2775			14779														
		STD	0900	0352	3487	2775	0004281	0394	14795														
		STD	1000	0352	3488	2776	0004324	0437	14812														
	205	OBS	T1003	0352	34877	2776			14813														
		STD	1100	0353	3488	2776	0004395	0480	14830														
		STD	1200	0353	3489	2777	0004403	0524	14847														
		STD	1300	0354	3489	2777	0004496	0569	14864														
		STD	1400	0355	3489	2777	0004589	0614	14881														
		STD	1500	0356	3489	2777	0004681	0661	14898														
	205	OBS	T1510	0356	34895	2777			14900														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTR CODE	IC. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT PER	SEA	
311092		S5	56315N	05052 W	186 60	07	08	203	1967	B26	009	3630	14	34	2	4	X1	8	6	0009
WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. INT.	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS CODE												
		29	S10	134	083	068	7	14												

MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°C	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	Si O ₄ -Si μg-at/l	pH	S/C
		STD	0000	0775	3474	2713	0009477	0000	14816								
203		OBS	0000	0775	34738	2713			14816								
		STD	0010	0728	3473	2719	0008900	0009	14800								
		STD	0020	0681	3472	2725	0008345	0018	14783								
203		OBS	0023	0667	34722	2727			14778								
		STD	0030	0633	3473	2731	0007731	0026	14765								
203		OBS	0047	0555	34735	2742			14737								
		STD	0050	0538	3474	2745	0006509	0040	14731								
		STD	0075	0427	3481	2763	0004795	0054	14690								
203		OBS	0094	0375	34842	2771			14671								
		STD	0100	0374	3484	2771	0004043	0065	14672								
		STD	0125	0370	3484	2771	0004011	0075	14674								
203		OBS	0142	0368	34845	2772			14676								
		STD	0150	0367	3485	2772	0003989	0085	14677								
203		OBS	T0188	0363	34849	2773			14682								
		STD	0200	0361	3485	2773	0003952	0105	14683								
203		OBS	0236	0358	34848	2773			14688								
		STD	0250	0357	3485	2773	0003963	0125	14690								
203		OBS	0284	0356	34847	2773			14695								
		STD	0300	0357	3485	2773	0003992	0145	14698								
203		OBS	T0372	0358	34852	2773			14710								
		STD	0400	0357	3485	2773	0004055	0185	14714								
203		OBS	0468	0355	34854	2774			14725								
		STD	0500	0356	3486	2774	0004115	0226	14731								
203		OBS	T0563	0357	34856	2774			14742								
		STD	0600	0356	3486	2774	0004163	0267	14747								
		STD	0700	0353	3486	2774	0004214	0309	14763								
203		OBS	0742	0352	34862	2775			14769								
		STD	0800	0352	3487	2775	0004209	0351	14779								
		STD	0900	0351	3487	2775	0004285	0394	14795								
203		OBS	T0928	0351	34872	2776			14800								
		STD	1000	0352	3487	2776	0004347	0437	14812								
		STD	1100	0353	3488	2776	0004415	0481	14830								
		STD	1200	0355	3488	2776	0004492	0525	14847								
		STD	1300	0356	3488	2776	0004568	0571	14865								
		STD	1400	0358	3489	2776	0004644	0617	14882								
203		OBS	T1421	0356	34888	2776			14886								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUA RE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	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
311092	S5		5634 N	05101 W	186	61	07	09	203	1967	B26	010	3658	15	32	1	5	X1	6	2	0010

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			
		27	S03	172	094	078	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₂ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₂ -Si μg-at/l	pH	S C C
		STD	0000	0749	3469	2713	0009474	0000	14806								
		OBS	0000	0749	34690	2713			14806								
		STD	0010	0711	3473	2721	0008680	0009	14793								
		STD	0020	0668	3475	2729	0007982	0017	14778								
		OBS	0025	0644	34760	2733			14769								
		STD	0030	0613	3476	2737	0007214	0025	14758								
		STD	0050	0506	3477	2751	0005935	0038	14718								
		OBS	0051	0501	34768	2751			14716								
		STD	0075	0417	3480	2763	0004767	0052	14685								
		STD	0100	0362	3482	2770	0004091	0063	14667								
		OBS	0101	0361	34824	2771			14666								
		STD	0125	0361	3483	2771	0004028	0073	14670								
		STD	0150	0361	3484	2772	0003975	0083	14675								
		OBS	0152	0361	34843	2772			14675								
		STD	0200	0361	3486	2773	0003884	0102	14683								
		OBS	T0203	0361	34859	2774			14684								
		STD	0250	0361	3486	2773	0003943	0122	14691								
		OBS	0254	0361	34856	2773			14692								
		STD	0300	0360	3486	2773	0003985	0142	14699								
		OBS	0305	0360	34855	2773			14700								
		STD	0400	0358	3486	2774	0004014	0182	14715								
		OBS	0406	0358	34863	2774			14716								
		STD	0500	0355	3486	2774	0004047	0222	14730								
		OBS	0507	0355	34863	2774			14731								
		STD	0600	0355	3486	2774	0004145	0263	14747								
		OBS	T0615	0355	34860	2774			14749								
		STD	0700	0355	3486	2774	0004217	0305	14763								
		STD	0800	0354	3486	2775	0004280	0347	14780								
		OBS	0812	0354	34864	2775			14782								
		STD	0900	0354	3487	2775	0004317	0390	14797								
		STD	1000	0354	3488	2776	0004355	0434	14813								
		OBS	T1018	0354	34877	2776			14816								
		STD	1100	0354	3488	2776	0004411	0478	14830								
		STD	1200	0355	3489	2777	0004423	0522	14847								
		STD	1300	0355	3489	2777	0004509	0566	14864								
		STD	1400	0356	3489	2777	0004595	0612	14881								
		STD	1500	0356	3489	2777	0004680	0658	14898								
		OBS	T1523	0356	34892	2777			14902								

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARS DEN	STATION TIME			ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEA-	CLOUD	NODC			
					CTRY	ID.	'	'	SQ			MO	DAY	HR./10				YEAR	CRUISE	STATION
311092	S5	5633 N	05048 W	186	60	07	10	210	1967	B26	011	3749	15	16	4	3	X2	0	8	0011

WATER		WIND		SPEED	BARO-	AIR TEMP. °C		VIS.	NO.	SPECIAL
COLOR	TRANS.	DIR.	METER			DRY	WET			
				16	18	146	089	083	7	14

MESSNGR	CAST	CARD	DEPTH	T	S	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	D ₂	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	TYPE	(m)	°C	‰		ANOMALY-2107	DTM. μL	VELOCITY	ml/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		CC
		STD	0000	0756	3476	2717	0009064	0000	14809								
210		OBS	0000	0756	34758	2717			14809								
		STD	0010	0715	3476	2723	0008524	0009	14795								
		STD	0020	0666	3476	2730	0007890	0017	14777								
210		OBS	0025	0639	34759	2733			14767								
		STD	0030	0598	3476	2739	0007045	0024	14752								
		STD	0050	0470	3479	2756	0005374	0037	14703								
210		OBS	0051	0465	34791	2757			14701								
		STD	0075	0429	3485	2766	0004516	0049	14691								
		STD	0100	0398	3487	2771	0004073	0060	14683								
210		OBS	0101	0397	34875	2771			14682								
		STD	0125	0374	3485	2772	0004006	0070	14676								
		STD	0150	0356	3484	2772	0003946	0080	14673								
210		OBS	0152	0357	34839	2772			14673								
		STD	0200	0355	3484	2773	0003962	0100	14680								
		OBS	T0205	0355	34845	2773			14681								
		STD	0250	0363	3486	2773	0003974	0120	14692								
210		OBS	0254	0364	34856	2773			14693								
		STD	0300	0359	3485	2773	0003993	0140	14699								
		OBS	0304	0359	34853	2773			14699								
		STD	0400	0357	3485	2773	0004079	0180	14714								
210		OBS	T0404	0357	34848	2773			14715								
		STD	0500	0356	3486	2774	0004129	0221	14731								
210		OBS	0504	0358	34856	2774			14732								
		STD	0600	0356	3485	2774	0004209	0263	14747								
		OBS	0604	0356	34854	2774			14748								
		STD	0700	0355	3486	2774	0004267	0305	14763								
		STD	0800	0354	3486	2774	0004317	0348	14780								
210		OBS	0805	0354	34859	2774			14781								
		STD	0900	0353	3486	2774	0004381	0391	14796								
		STD	1000	0352	3486	2775	0004451	0436	14812								
210		OBS	1006	0352	34862	2775			14813								
		STD	1100	0353	3487	2775	0004490	0480	14829								
		STD	1200	0354	3487	2775	0004554	0526	14847								
		STD	1300	0355	3488	2776	0004610	0571	14864								
		STD	1400	0356	3488	2776	0004666	0618	14881								
		STD	1500	0357	3489	2776	0004722	0665	14899								
210		OBS	T1505	0357	34886	2776			14900								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH ID BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
TYPE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
311092	55	5630 N	05103 W	186	61	07	11	207	1967	826	012	3506	15	10	5	3	X5	7	8	0012	

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IMI	DIRL	SPEED OR FORCE		DRY BULB	WET BULB			
		09	521	045	084	084	6	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ 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	0743	3473	2717	0009065	0000	14804								
		OBS	0000	0743	34734	2717			14804								
		STD	0010	0722	3474	2720	0008752	0009	14797								
		STD	0020	0689	3474	2725	0008330	0017	14786								
		OBS	0025	0668	34747	2728			14779								
		STD	0030	0633	3475	2733	0007552	0025	14766								
		STD	0050	0514	3477	2750	0006010	0039	14721								
		OBS	0051	0509	34771	2750			14719								
		STD	0075	0422	3481	2763	0004743	0052	14688								
		STD	0100	0366	3484	2772	0003980	0063	14669								
		OBS	0101	0365	34845	2772			14668								
		STD	0125	0367	3485	2772	0003940	0073	14673								
		STD	0150	0370	3485	2772	0003986	0083	14679								
		OBS	0153	0370	34855	2772			14679								
		STD	0200	0360	3485	2773	0003923	0103	14683								
		OBS	T0202	0360	34852	2773			14683								
		STD	0250	0357	3485	2774	0003921	0122	14690								
		OBS	0255	0357	34854	2774			14691								
		STD	0300	0356	3486	2774	0003945	0142	14698								
		OBS	0306	0356	34855	2774			14699								
		STD	0400	0355	3487	2775	0003938	0182	14714								
		OBS	T0410	0355	34867	2775			14715								
		STD	0500	0357	3487	2775	0004020	0221	14731								
		OBS	0507	0357	34869	2775			14732								
		STD	0600	0360	3488	2775	0004055	0262	14749								
		OBS	T0608	0360	34882	2775			14751								
		STD	0700	0357	3488	2776	0004100	0303	14765								
		STD	0800	0353	3488	2776	0004152	0344	14760								
		OBS	0809	0353	34880	2776			14781								
		STD	0900	0354	3488	2776	0004230	0386	14796								
		STD	1000	0354	3488	2776	0004303	0428	14813								
		OBS	1008	0354	34883	2776			14815								
		STD	1100	0354	3489	2777	0004338	0472	14830								
		STD	1200	0355	3489	2777	0004425	0515	14847								
		STD	1300	0355	3489	2777	0004511	0560	14864								
		STD	1400	0356	3490	2777	0004523	0605	14881								
		OBS	T1496	0356	34907	2778			14898								

REFERENCE		SHIP CODE	LATITUDE ° /10	LONGITUDE ° /10	ORIG. MONTH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		MOOQ STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	TYPE	
311092		55	5631 N	05103 W		186	61	07	12	216	1967	B26	013	3628	14	05	5	4	X2	7	8	0013
		WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB										
		03		522		136		084		078		7		14								

MESSAGE#	CAST	CARD	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 $\mu\text{g} - \text{dl/l}$	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
		STD	0000	0741	3475	2718	0008948	0000	14803									
216		OBS	0000	0741	34746	2718			14803									
		STD	0010	0740	3475	2719	0008919	0009	14804									
		STD	0020	0739	3475	2719	0008919	0018	14806									
216		OBS	0025	0738	34754	2719			14806									
		STD	0030	0697	3475	2725	0008377	0027	14791									
		STD	0050	0559	3475	2743	0006694	0042	14739									
216		OBS	0050	0559	34748	2743			14739									
		STD	0075	0458	3480	2759	0005198	0056	14705									
		STD	0100	0392	3484	2768	0004275	0068	14679									
216		OBS	0100	0392	34835	2768			14679									
		STD	0125	0376	3484	2771	0004101	0079	14677									
		STD	0150	0366	3485	2772	0003979	0089	14677									
216		OBS	0150	0366	34846	2772			14677									
		STD	0200	0361	3485	2773	0003945	0109	14683									
216		OBS	T0201	0361	34854	2773			14683									
216		OBS	0249	0356	34856	2774			14689									
		STD	0250	0356	3486	2774	0003893	0128	14689									
216		OBS	0296	0355	34854	2774			14696									
		STD	0300	0355	3485	2774	0003941	0148	14697									
216		OBS	0386	0352	34854	2774			14710									
		STD	0400	0352	3485	2774	0003999	0188	14712									
216		OBS	0473	0354	34854	2774			14725									
		STD	0500	0354	3486	2774	0004057	0228	14730									
216		OBS	T0562	0354	34866	2775			14740									
		STD	0600	0354	3487	2775	0004078	0268	14746									
		STD	0700	0353	3487	2776	0004105	0309	14763									
216		OBS	0742	0352	34877	2776			14769									
		STD	0800	0352	3488	2776	0004157	0351	14779									
		STD	0900	0351	3488	2776	0004233	0393	14795									
216		OBS	0930	0351	34877	2776			14800									
		STD	1000	0352	3488	2776	0004302	0435	14812									
		STD	1100	0353	3488	2776	0004400	0479	14830									
		STD	1200	0355	3488	2776	0004499	0523	14847									
		STD	1300	0356	3488	2776	0004598	0569	14865									
		STD	1400	0358	3488	2776	0004697	0615	14882									
216		OBS	T1417	0358	34880	2776			14885									

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER							
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT									
311	092	S5	5632 N	05055 W	186	60	07	13	219	1967	826	014	3650	15	06	6	4		X2	7	8	0014									
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																			
								07		S08		154		094		083		7		14											

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DTN. 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	CLOUD
		STD	0000	0716	3467	2715	0009207	0000	14792								
219		OBS	0000	0716	34666	2715			14792								
		STD	0010	0702	3467	2718	0009007	0009	14789								
		STD	0020	0688	3468	2720	0008764	0018	14785								
219		OBS	0025	0681	34682	2722			14783								
		STD	0030	0629	3469	2729	0007950	0026	14763								
		STD	0050	0467	3474	2753	0005717	0040	14701								
219		OBS	0051	0461	34747	2754			14699								
		STD	0075	0426	3482	2764	0004710	0053	14689								
		STD	0100	0401	3486	2770	0004178	0064	14684								
219		OBS	0102	0400	34866	2770			14684								
		STD	0125	0395	3487	2771	0004059	0074	14685								
		STD	0150	0390	3488	2772	0003987	0085	14687								
219		OBS	0153	0389	34878	2772			14688								
		STD	0200	0375	3487	2773	0003912	0104	14689								
219		OBS	T0205	0374	34872	2773			14690								
		STD	0250	0368	3487	2773	0003946	0124	14694								
219		OBS	0256	0367	34864	2773			14695								
		STD	0300	0365	3466	2774	0003971	0144	14702								
219		OBS	0308	0365	34864	2774			14703								
		STD	0400	0359	3486	2774	0004021	0184	14715								
219		OBS	0410	0358	34860	2774			14717								
		STD	0500	0357	3486	2774	0004075	0224	14731								
219		OBS	0512	0357	34862	2774			14733								
		STD	0600	0356	3487	2775	0004119	0265	14747								
219		OBS	0614	0356	34867	2775			14750								
		STD	0700	0356	3487	2775	0004177	0307	14764								
		STD	0800	0357	3488	2776	0004193	0348	14781								
219		OBS	0815	0357	34881	2776			14784								
		STD	0900	0355	3489	2776	0004221	0391	14797								
		STD	1000	0353	3489	2777	0004251	0433	14813								
219		OBS	T1014	0353	34890	2777			14815								
		STD	1100	0354	3490	2777	0004297	0476	14830								
		STD	1200	0355	3490	2777	0004357	0519	14848								
		STD	1300	0357	3491	2778	0004416	0563	14865								
		STD	1400	0358	3491	2778	0004476	0607	14882								
		STD	1500	0359	3492	2778	0004528	0652	14900								
219		OBS	T1507	0359	34916	2778			14901								

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

311092		S5	56285N	05058 W	186	60	07	14	205	1967	826	015	3658	15	06	2	3	X2	6	8	0015		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTH		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. 1m		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE							
								15		S05		174		094		086		7		14			

MESSNGR TIME OF HR	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	ST CC
1/10																	
		STD	0000	0757	3466	2709	0009808	0000	14808								
205		OBS	0000	0757	34660	2709			14808								
		STD	0010	0723	3466	2714	0009391	0010	14797								
		STD	0020	0678	3465	2720	0008843	0019	14781								
205		OBS	0024	0658	34650	2722			14773								
		STD	0030	0612	3466	2729	0007963	0027	14756								
205		OBS	0049	0495	34705	2747			14712								
		STD	0050	0492	3471	2748	0006214	0041	14711								
		STD	0075	0434	3482	2763	0004793	0055	14693								
205		OBS	0097	0401	34880	2771			14683								
		STD	0100	0400	3488	2771	0004018	0066	14683								
		STD	0125	0393	3488	2772	0003948	0076	14685								
205		OBS	0147	0387	34885	2773			14686								
		STD	0150	0386	3489	2773	0003887	0086	14686								
205		OBS	T0196	0376	34885	2774			14689								
		STD	0200	0375	3488	2774	0003860	0105	14689								
205		OBS	0246	0372	34870	2773			14696								
		STD	0250	0373	3487	2773	0003952	0125	14697								
205		OBS	0295	0375	34883	2774			14705								
		STD	0300	0374	3488	2774	0003940	0144	14705								
205		OBS	T0393	0359	34867	2774			14714								
		STD	0400	0359	3487	2774	0003980	0184	14716								
205		OBS	0491	0360	34858	2774			14731								
		STD	0500	0360	3486	2774	0004135	0225	14732								
205		OBS	0590	0357	34857	2774			14746								
		STD	0600	0357	3486	2774	0004175	0266	14748								
		STD	0700	0358	3486	2774	0004265	0308	14765								
205		OBS	0788	0358	34865	2774			14779								
		STD	0800	0357	3487	2774	0004305	0351	14781								
		STD	0900	0353	3487	2775	0004335	0394	14796								
205		OBS	0985	0350	34866	2775			14809								
		STD	1000	0350	3487	2776	0004355	0438	14812								
		STD	1100	0352	3487	2775	0004456	0482	14829								
		STD	1200	0354	3487	2775	0004556	0527	14846								
		STD	1300	0355	3488	2776	0004583	0573	14864								
		STD	1400	0357	3488	2776	0004683	0619	14882								
205		OBS	T1480	0358	34890	2776			14896								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311092		55	5629 N	05057 W	186	00	07	15	202	1967	B26	016	3500	15	09	3	5	X4	X9			0016	
WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB													
		17		S13		119		086		006		5		14									

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	S Δ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SCC
		STD	0000	0703	3464	2715	0009221	0000	14787								
202		OBS	0000	0703	3464	2715			14787								
		STD	0010	0687	3464	2718	0009004	0009	14782								
		STD	0020	0657	3465	2722	0008610	0018	14772								
202		OBS	0026	0632	34649	2726			14763								
		STD	0030	0601	3466	2730	0007829	0026	14752								
		STD	0050	0478	3472	2750	0005986	0040	14706								
202		OBS	0052	0469	34724	2751			14702								
		STD	0075	0436	3482	2763	0004814	0053	14694								
		STD	0100	0412	3488	2770	0004140	0065	14689								
202		OBS	0103	0410	34888	2771			14688								
		STD	0125	0409	3489	2771	0004090	0075	14691								
		STD	0150	0405	3488	2771	0004096	0085	14694								
202		OBS	0155	0404	34882	2771			14694								
		STD	0200	0386	3487	2772	0004024	0105	14694								
202		OBS	T0208	0384	34871	2772			14694								
		STD	0250	0376	3487	2773	0003983	0125	14698								
202		OBS	0258	0375	34871	2773			14699								
		STD	0300	0373	3487	2773	0003998	0145	14705								
202		OBS	0310	0372	34871	2773			14706								
		STD	0400	0363	3487	2774	0003990	0185	14717								
202		OBS	T0410	0362	34870	2774			14718								
		STD	0500	0359	3486	2774	0004083	0226	14732								
202		OBS	0517	0358	34862	2774			14734								
		STD	0600	0359	3487	2774	0004149	0267	14749								
202		OBS	T0620	0359	34867	2774			14752								
		STD	0700	0359	3487	2774	0004221	0309	14765								
		STD	0800	0359	3487	2775	0004298	0351	14782								
202		OBS	0825	0359	34869	2775			14788								
		STD	0900	0358	3487	2775	0004335	0395	14798								
		STD	1000	0356	3488	2776	0004359	0438	14814								
202		OBS	T1030	0355	34879	2776			14819								
		STD	1100	0355	3488	2776	0004421	0482	14831								
		STD	1200	0356	3489	2777	0004436	0526	14846								
		STD	1300	0356	3489	2777	0004520	0571	14865								
		STD	1400	0356	3489	2776	0004606	0617	14882								
		STD	1500	0357	3489	2776	0004691	0663	14899								
202		OBS	T1546	0357	34896	2777			14907								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311	092	S5	5631 N	05103 W	186	61	07	16	202	1967	826	017	3566	15	16	2	2	X1	8	5	0017

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANSL. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		17	S05	131	094	068	7	14	

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SIO ₄ -Si μg - 01/l	pH	STATUS
		STD	0000	0754	3463	2707	0009990	0000	14807								
202		OBS	0000	0754	34630	2707			14807								
		STD	0010	0749	3463	2708	0009916	0010	14806								
		STD	0020	0715	3464	2713	0009450	0020	14795								
202		OBS	0025	0686	34638	2717			14784								
		STD	0030	0623	3468	2729	0007950	0028	14761								
		STD	0050	0431	3480	2762	0004878	0041	14687								
202		OBS	0050	0431	34801	2762			14687								
		STD	0075	0403	3484	2768	0004324	0053	14680								
		STD	0100	0387	3487	2772	0003977	0063	14678								
202		OBS	0100	0387	34868	2772			14678								
		STD	0125	0388	3488	2773	0003915	0073	14662								
202		OBS	0149	0388	34887	2773			14687								
		STD	0150	0388	3489	2773	0003892	0083	14687								
202		OBS	T0199	0376	34882	2774			14690								
		STD	0200	0376	3488	2774	0003855	0102	14690								
		STD	0250	0378	3488	2774	0003906	0121	14699								
202		OBS	0250	0378	34884	2774			14699								
		STD	0300	0372	3488	2774	0003927	0141	14705								
202		OBS	0300	0372	34879	2774			14705								
202		OBS	T0395	0368	34880	2775			14719								
		STD	0400	0368	3488	2775	0003968	0180	14719								
202		OBS	0497	0366	34879	2775			14735								
		STD	0500	0366	3488	2775	0004043	0221	14735								
202		OBS	T0598	0367	34880	2775			14752								
		STD	0600	0367	3488	2775	0004133	0261	14752								
		STD	0700	0362	3488	2775	0004165	0303	14767								
202		OBS	0792	0359	34876	2775			14781								
		STD	0800	0359	3488	2775	0004246	0345	14782								
		STD	0900	0359	3488	2775	0004330	0388	14799								
202		OBS	T0987	0359	34875	2775			14813								
		STD	1000	0359	3488	2775	0004384	0431	14815								
		STD	1100	0359	3488	2775	0004469	0476	14832								
		STD	1200	0359	3488	2775	0004554	0521	14849								
		STD	1300	0360	3488	2775	0004638	0567	14866								
		STD	1400	0360	3488	2775	0004722	0614	14883								
		STD	1500	0360	3489	2776	0004731	0661	14900								
202		OBS	T1527	0360	34891	2776			14905								

REFERENCE		SHIP CODE	LATITUDE ° / 10	LONGITUDE ° / 10	PORT INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	1ST	
311	092	55	5627 N	05058 W		186	60	07	17	202	1967	826	018	3566	14	34	3	3	X2	7	8	0018

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			
		31	508	232	078	072	7	14	

MESSENGER TIME HR / 10	CAST 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 $\mu\text{g} \cdot \text{at/l}$	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
		STD	0000	0758	3462	2706	0010104	0000	14808								
202		OBS	0000	0758	34622	2706			14808								
		STD	0010	0732	3463	2710	0009714	0010	14800								
		STD	0020	0691	3464	2717	0009124	0019	14786								
202		OBS	0023	0676	34639	2719			14780								
		STD	0030	0619	3466	2728	0008050	0028	14759								
202		OBS	0046	0513	34702	2745			14719								
		STD	0050	0499	3472	2748	0006217	0042	14714								
		STD	0075	0431	3483	2764	0004687	0056	14692								
202		OBS	0091	0404	34873	2770			14684								
		STD	0100	0403	3488	2771	0004048	0067	14685								
		STD	0125	0399	3488	2771	0004032	0077	14687								
202		OBS	0137	0396	34883	2772			14688								
		STD	0150	0390	3488	2772	0003965	0087	14687								
202		OBS	T0185	0378	34877	2773			14688								
		STD	0200	0376	3488	2773	0003900	0106	14690								
202		OBS	0229	0374	34874	2773			14694								
		STD	0250	0373	3487	2774	0003930	0126	14697								
202		OBS	0276	0372	34875	2774			14701								
		STD	0300	0371	3488	2774	0003940	0146	14704								
202		OBS	T0368	0368	34877	2774			14714								
		STD	0400	0365	3488	2774	0003974	0185	14718								
202		OBS	0460	0362	34871	2774			14727								
		STD	0500	0361	3487	2775	0004041	0225	14733								
202		OBS	T0558	0360	34874	2775			14742								
		STD	0600	0359	3487	2775	0004094	0266	14749								
		STD	0700	0358	3487	2775	0004161	0307	14765								
202		OBS	0738	0357	34874	2775			14771								
		STD	0800	0357	3488	2775	0004228	0349	14781								
		STD	0900	0356	3488	2775	0004289	0392	14797								
202		OBS	T0926	0356	34878	2776			14802								
		STD	1000	0357	3488	2776	0004347	0435	14814								
		STD	1100	0357	3488	2776	0004415	0479	14831								
		STD	1200	0358	3489	2776	0004474	0523	14849								
		STD	1300	0358	3489	2776	0004534	0568	14866								
		STD	1400	0359	3490	2777	0004593	0614	14883								
202		OBS	T1413	0359	34896	2777			14885								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH MDCM	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA				
311092		55	56335N	05115 W		186	61	07	18	203	1967	B26	019	3650	15	00	0	X		X5	7	8	0019

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		00	500	228	085	072	6	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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	0841	3472	2701	0010578	0000	14841								
		OBS	0000	0841	34717	2701			14841								
		STD	0010	0815	3472	2705	0010204	0010	14833								
		STD	0020	0771	3472	2712	0009575	0020	14818								
		OBS	0026	0735	34723	2717			14805								
		STD	0030	0693	3474	2724	0008399	0029	14789								
		STD	0050	0520	3478	2750	0006004	0044	14724								
		OBS	0051	0513	34787	2751			14721								
		STD	0075	0423	3481	2763	0004754	0057	14688								
		STD	0100	0365	3483	2771	0004045	0068	14668								
		OBS	0102	0362	34834	2771			14667								
		STD	0125	0363	3484	2772	0003976	0078	14672								
		STD	0150	0365	3484	2772	0004013	0088	14676								
		OBS	0154	0365	34843	2772			14677								
		STD	0200	0365	3485	2772	0003984	0108	14685								
		OBS	T0207	0365	34854	2773			14686								
		STD	0250	0360	3485	2773	0003953	0128	14691								
		OBS	0256	0359	34853	2773			14692								
		STD	0300	0359	3485	2773	0003989	0148	14699								
		OBS	0307	0359	34853	2773			14700								
		STD	0400	0358	3487	2775	0003940	0187	14715								
		OBS	T0404	0358	34871	2775			14716								
		STD	0500	0356	3487	2775	0004006	0227	14731								
		OBS	0509	0356	34870	2775			14732								
		STD	0600	0356	3487	2775	0004081	0268	14747								
		OBS	T0614	0356	34871	2775			14750								
		STD	0700	0355	3487	2775	0004144	0309	14764								
		STD	0800	0353	3487	2776	0004196	0350	14780								
		OBS	0812	0353	34874	2776			14781								
		STD	0900	0353	3488	2776	0004227	0393	14796								
		STD	1000	0352	3489	2777	0004229	0435	14813								
		OBS	T1022	0352	34894	2777			14816								
		STD	1100	0353	3490	2777	0004275	0477	14830								
		STD	1200	0354	3490	2777	0004346	0520	14847								
		STD	1300	0355	3490	2778	0004417	0564	14864								
		STD	1400	0356	3491	2778	0004488	0609	14882								
		STD	1500	0357	3491	2778	0004567	0654	14899								
		OBS	T1519	0357	34908	2778			14902								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEPTH	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					T0	T1	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA.		TYPE	AMT.	
311092	55	5629 N	05056 W	180	60	07	19	202	1967	020	020	3506	14	19	3	2	X6	0	8			0020		

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		19	515	179	088	082	6	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. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C
		STD	0000	0790	3460	2700	0010699	0000	14820								
202		OBS	0000	0790	34602	2700			14820								
		STD	0010	0764	3462	2705	0010241	0010	14812								
		STD	0020	0709	3463	2714	0009399	0020	14793								
202		OBS	0022	0695	34635	2716			14787								
		STD	0030	0593	3470	2735	0007432	0029	14749								
202		OBS	0045	0450	34802	2760			14694								
		STD	0050	0441	3481	2761	0004915	0041	14691								
		STD	0075	0405	3486	2769	0004194	0052	14681								
202		OBS	0090	0392	34876	2772			14678								
		STD	0100	0391	3488	2772	0003927	0063	14660								
		STD	0125	0389	3488	2772	0003931	0072	14663								
202		OBS	0135	0388	34884	2773			14664								
		STD	0150	0385	3489	2773	0003876	0082	14685								
202		OBS	T0180	0381	34886	2774			14689								
		STD	0200	0379	3488	2773	0003900	0102	14691								
202		OBS	0226	0376	34876	2773			14694								
		STD	0250	0372	3487	2774	0003920	0121	14696								
202		OBS	0270	0370	34873	2774			14699								
		STD	0300	0369	3487	2774	0003934	0141	14703								
202		OBS	T0358	0367	34876	2774			14712								
		STD	0400	0367	3487	2774	0004002	0180	14719								
202		OBS	0449	0367	34872	2774			14727								
		STD	0500	0367	3487	2774	0004120	0221	14735								
202		OBS	T0542	0367	34868	2774			14742								
		STD	0600	0367	3487	2774	0004208	0263	14752								
		STD	0700	0366	3487	2774	0004284	0305	14766								
202		OBS	0721	0365	34874	2774			14771								
		STD	0800	0360	3487	2775	0004302	0348	14782								
202		OBS	T0894	0355	34866	2775			14796								
		STD	0900	0355	3487	2775	0004358	0391	14797								
		STD	1000	0355	3487	2775	0004423	0435	14814								
		STD	1100	0356	3487	2775	0004495	0480	14831								
		STD	1200	0356	3487	2775	0004567	0525	14848								
		STD	1300	0357	3488	2775	0004631	0571	14865								
202		OBS	T1392	0357	34876	2775			14880								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311092		55	5627 N	05053 W		180	60	07	20	200	1967	826	021	3506	15	34	4	3	X1	7	7	0021

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (%)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
		34	529	110	002	073	7	14	

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl}^{-1}$	TOTAL-P $\mu\text{g} - \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} - \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} - \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} - \text{dl}^{-1}$	pH	S C C
		STD	0000	0759	3463	2706	0010073	0000	14809								
205		OBS	0000	0759	3462	2706			14809								
		STD	0010	0692	3466	2718	0008950	0010	14785								
		STD	0020	0623	3469	2730	0007661	0018	14759								
205		OBS	0024	0595	34707	2735			14749								
		STD	0030	0543	3474	2744	0006541	0025	14729								
205		OBS	0047	0430	34807	2762			14686								
		STD	0050	0427	3481	2763	0004769	0036	14686								
		STD	0075	0407	3486	2769	0004214	0048	14682								
205		OBS	0096	0396	34877	2771			14681								
		STD	0100	0396	3488	2771	0004000	0058	14682								
		STD	0125	0392	3487	2772	0004013	0068	14684								
205		OBS	0143	0389	34871	2772			14686								
		STD	0150	0387	3487	2772	0003994	0078	14686								
205		OBS	T0192	0379	34878	2773			14690								
		STD	0200	0378	3488	2774	0003890	0098	14691								
205		OBS	0237	0375	34881	2774			14696								
		STD	0250	0373	3487	2773	0003960	0117	14697								
205		OBS	0283	0369	34857	2773			14700								
		STD	0300	0367	3485	2772	0004093	0137	14702								
205		OBS	T0370	0363	34848	2772			14712								
		STD	0400	0365	3486	2773	0004086	0178	14718								
205		OBS	0470	0368	34870	2774			14731								
		STD	0500	0368	3487	2774	0004109	0219	14736								
205		OBS	T0571	0366	34879	2774			14748								
		STD	0600	0368	3488	2774	0004159	0261	14753								
		STD	0700	0368	3488	2774	0004261	0303	14769								
205		OBS	0762	0366	34874	2774			14779								
		STD	0800	0363	3487	2774	0004336	0346	14784								
		STD	0900	0358	3486	2774	0004437	0390	14798								
205		OBS	T0968	0355	34859	2774			14808								
		STD	1000	0355	3486	2774	0004489	0434	14814								
		STD	1100	0356	3486	2774	0004582	0480	14831								
		STD	1200	0357	3486	2774	0004675	0526	14846								
		STD	1300	0358	3487	2775	0004695	0573	14863								
		STD	1400	0359	3487	2775	0004788	0620	14883								
205		OBS	T1486	0360	34885	2776			14898								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
31109	2	55	56315N	05106 W	186	01	07	21	202	1967	B26	022	3500	15	30	2	4	X1	3	3	0022

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			
				164	097	082	7	14	

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D CTN. 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	CLUS
		STD	0000	0791	3462	2701	0010565	0000	14821								
202		OBS	0000	0791	3462	2701			14821								
		STD	0010	0784	3463	2703	0010394	0010	14820								
		STD	0020	0750	3465	2709	0009857	0021	14809								
202		OBS	0025	0724	34651	2713			14799								
		STD	0030	0667	3468	2723	0008507	0030	14778								
		STD	0050	0489	3476	2752	0005806	0044	14711								
202		OBS	0051	0482	34768	2753			14708								
		STD	0075	0441	3485	2764	0004642	0057	14696								
		STD	0100	0410	3489	2771	0004045	0068	14688								
202		OBS	0101	0409	34895	2771			14688								
		STD	0125	0398	3489	2772	0003947	0078	14687								
		STD	0150	0387	3489	2773	0003854	0088	14686								
202		OBS	0151	0386	34888	2773			14686								
		STD	0200	0380	3489	2774	0003845	0107	14692								
202		OBS	T0202	0380	34889	2774			14692								
		STD	0250	0376	3489	2774	0003865	0126	14698								
202		OBS	0252	0376	34887	2774			14698								
		STD	0300	0369	3488	2774	0003892	0146	14703								
202		OBS	0302	0369	34875	2774			14704								
		STD	0400	0360	3487	2775	0003960	0185	14716								
202		OBS	T0401	0360	34870	2775			14716								
		STD	0500	0363	3488	2775	0004032	0225	14734								
202		OBS	0504	0363	34876	2775			14735								
		STD	0600	0358	3487	2775	0004112	0266	14748								
202		OBS	T0604	0358	34870	2775			14749								
		STD	0700	0358	3467	2775	0004189	0307	14765								
		STD	0800	0357	3487	2775	0004268	0349	14781								
202		OBS	0805	0357	34868	2775			14782								
		STD	0900	0355	3487	2775	0004340	0392	14797								
		STD	1000	0352	3487	2775	0004394	0436	14812								
202		OBS	T1012	0352	34868	2775			14814								
		STD	1100	0353	3487	2775	0004473	0480	14830								
		STD	1200	0355	3487	2775	0004571	0526	14847								
		STD	1300	0356	3488	2776	0004595	0572	14865								
		STD	1400	0358	3489	2776	0004621	0618	14882								
		STD	1500	0359	3490	2777	0004676	0664	14900								
202		OBS	T1500	0359	34896	2777			14900								

Table VIII. Observed and interpolated oceanographic data for stations taken by USCGC McCULLOCH at Ocean Station BRAVO, 14 August-5 September 1967, prepared from NODC listing No. 31-1157 ML.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDEX	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES (TPTL AMT)	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER			
31	1157	ML	56040N	051120W		186	61	08	14	163	1967	B27	001	3475	14	19	3		2	8	0001
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															
		22	S13	050	114	102	7	14													
MESSNGR TIME OF HR 1/10	CAST 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 $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S.C.C.				
		STD	0000	0981	3458	2668	0013719	0000	14892												
	163	OBS	0000	0981	34583	2668			14892												
		STD	0010	0980	3458	2668	0013738	0014	14893												
		STD	0020	0978	3458	2668	0013755	0027	14894												
	163	OBS	0026	0977	34575	2668			14894												
		STD	0030	0888	3461	2685	0012130	0040	14862												
	163	OBS	0047	0586	34748	2739			14750												
		STD	0050	0568	3475	2742	0006786	0059	14743												
		STD	0075	0447	3478	2758	0005230	0074	14698												
	163	OBS	0095	0387	34803	2766			14676												
		STD	0100	0385	3481	2767	0004393	0086	14676												
		STD	0125	0377	3483	2770	0004186	0097	14677												
	163	OBS	0140	0373	34835	2770			14678												
		STD	0150	0371	3484	2771	0004104	0107	14679												
	163	OBS	T0185	0365	34838	2771			14682												
		STD	0200	0364	3484	2772	0004060	0128	14684												
	163	OBS	0230	0363	34840	2772			14689												
		STD	0250	0367	3485	2772	0004049	0148	14694												
	163	OBS	0276	0370	34853	2772			14699												
		STD	0300	0368	3486	2773	0004029	0168	14703												
	163	OBS	T0360	0367	34864	2773			14712												
		STD	0400	0370	3487	2774	0004064	0209	14720												
	163	OBS	0441	0372	34879	2774			14728												
		STD	0500	0370	3488	2774	0004115	0250	14737												
	163	OBS	0542	0368	34872	2774			14743												
		STD	0600	0365	3487	2774	0004164	0291	14751												
		STD	0700	0361	3487	2775	0004198	0333	14766												
	163	OBS	0723	0360	34874	2775			14770												
		STD	0800	0360	3488	2775	0004220	0375	14783												
		STD	0900	0360	3489	2776	0004245	0417	14799												
	163	OBS	T0906	0360	34890	2776			14800												
		STD	1000	0360	3489	2776	0004300	0460	14816												
		STD	1100	0359	3490	2777	0004349	0503	14832												
		STD	1200	0358	3490	2777	0004397	0547	14849												
		STD	1300	0357	3490	2777	0004445	0591	14865												
		STD	1400	0355	3491	2778	0004478	0636	14881												
	163	OBS	T1407	0355	34905	2778			14882												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT.	PER.		SEA	TYPE	
31	1157	ML	56300N	051032W	186	61	08	15	162	1967	B27	002	3475	16	06	1	2		41	7	8		0002

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANSL.	SPEED (m/s)	DIR.		DRY BULB	WET BULB			
	12	513	040	096	086	4	14		

MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D2 ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -S $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S T C
		STD	0000	0980	3450	2669	0013592	0000	14891								
162		OBS	0000	0980	34598	2669			14891								
		STD	0010	0975	3460	2670	0013511	0014	14891								
		STD	0020	0969	3460	2671	0013439	0027	14891								
162		OBS	0026	0966	34602	2672			14891								
		STD	0030	0886	3463	2687	0011951	0040	14862								
		STD	0050	0570	3475	2741	0006010	0058	14744								
162		OBS	0051	0558	34754	2743			14739								
		STD	0075	0450	3478	2758	0005255	0074	14699								
		STD	0100	0379	3481	2768	0004340	0086	14674								
162		OBS	0101	0377	34810	2768			14673								
		STD	0125	0374	3482	2769	0004198	0096	14676								
		STD	0150	0370	3484	2771	0004075	0107	14679								
162		OBS	0152	0370	34840	2771			14679								
		STD	0200	0365	3485	2772	0004018	0127	14685								
162		OBS	T0205	0364	34846	2772			14685								
		STD	0250	0361	3485	2773	0004006	0147	14691								
162		OBS	0254	0361	34848	2773			14692								
		STD	0300	0363	3486	2773	0004013	0167	14700								
162		OBS	0304	0363	34856	2773			14701								
		STD	0400	0364	3486	2773	0004076	0207	14718								
162		OBS	T0404	0364	34862	2773			14718								
		STD	0500	0369	3487	2774	0004140	0248	14736								
162		OBS	0504	0369	34873	2774			14737								
		STD	0600	0361	3487	2774	0004147	0290	14750								
162		OBS	0605	0361	34869	2774			14750								
		STD	0700	0361	3488	2775	0004148	0331	14766								
		STD	0800	0360	3488	2775	0004229	0373	14783								
162		OBS	0811	0360	34883	2776			14784								
		STD	0900	0360	3489	2776	0004268	0416	14799								
		STD	1000	0360	3489	2776	0004329	0459	14816								
162		OBS	T1020	0360	34890	2776			14819								
		STD	1100	0360	3489	2776	0004383	0502	14833								
		STD	1200	0359	3490	2777	0004424	0546	14849								
		STD	1300	0357	3490	2777	0004459	0591	14865								
		STD	1400	0356	3490	2778	0004498	0635	14882								
		STD	1500	0353	3491	2778	0004511	0681	14897								
162		OBS	T1558	0352	34910	2779			14907								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311157	ML	56280N	051015W	186	61	08	16	130	1967	827	003	3475	15	03	3					5	8	0003	

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			
	33	S05	055	103	098	7	14		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₂ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C C
		STD	0000	0975	3463	2672	0013297	0000	14890								
130		OBS	0000	0975	34627	2672			14890								
		STD	0010	0967	3463	2673	0013205	0013	14889								
		STD	0020	0959	3462	2675	0013114	0026	14887								
130		OBS	0025	0955	34622	2675			14887								
		STD	0030	0845	3464	2694	0011265	0039	14847								
		STD	0050	0509	3472	2746	0006329	0056	14718								
130		OBS	0050	0509	34720	2746			14718								
		STD	0075	0425	3478	2761	0005000	0070	14688								
130		OBS	0099	0374	34818	2769			14672								
		STD	0100	0374	3482	2769	0004208	0082	14672								
		STD	0125	0368	3483	2771	0004097	0092	14675								
130		OBS	0149	0365	34832	2771			14676								
		STD	0150	0365	3483	2771	0004075	0102	14676								
		STD	0200	0364	3485	2772	0004004	0123	14684								
130		OBS	T0200	0364	34846	2772			14684								
130		OBS	0249	0361	34847	2773			14691								
		STD	0250	0361	3485	2773	0003988	0143	14691								
130		OBS	0298	0362	34851	2773			14700								
		STD	0300	0362	3485	2773	0004035	0163	14700								
130		OBS	T0395	0364	34865	2774			14717								
		STD	0400	0363	3487	2774	0004028	0203	14717								
130		OBS	0496	0359	34865	2774			14731								
		STD	0500	0359	3487	2775	0004038	0243	14732								
130		OBS	0596	0366	34882	2775			14751								
		STD	0600	0366	3488	2775	0004108	0284	14752								
		STD	0700	0364	3488	2775	0004165	0325	14768								
130		OBS	0794	0361	34883	2775			14782								
		STD	0800	0361	3488	2775	0004217	0367	14783								
		STD	0900	0356	3489	2776	0004229	0410	14798								
130		OBS	T0988	0353	34886	2777			14811								
		STD	1000	0353	3489	2777	0004240	0452	14813								
		STD	1100	0353	3489	2777	0004324	0495	14830								
		STD	1200	0354	3489	2777	0004409	0538	14847								
		STD	1300	0354	3490	2778	0004419	0583	14864								
		STD	1400	0354	3490	2778	0004501	0627	14881								
130		OBS	T1452	0354	34904	2778			14890								

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLER	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT	
311157	ML		56361N	050499W		186	60	08	17	195	1967	027	004	3475	11	30	4			6	7	0004	
						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	7					13					
								19	S04	130	100	100	7	13									
MESSNGR TIME HR. 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME AND MALT-X10 ⁷	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C C						
		STD	0000	1016	3459	2663	0014204	0000	14905														
195		OBS	0000	1016	34594	2663			14905														
		STD	0010	1002	3460	2665	0015973	0014	14901														
		STD	0020	0989	3460	2666	0015735	0028	14698														
195		OBS	0027	0979	34606	2670			14896														
		STD	0030	0918	3463	2682	0012441	0041	14874														
		STD	0050	0586	3474	2739	0007077	0061	14750														
195		OBS	0053	0546	34754	2744			14735														
		STD	0075	0457	3479	2756	0005262	0076	14702														
		STD	0100	0388	3461	2767	0004423	0088	14677														
195		OBS	0107	0375	34816	2769			14673														
		STD	0125	0372	3463	2770	0004136	0099	14675														
		STD	0150	0369	3464	2771	0004054	0109	14678														
195		OBS	0161	0368	34841	2771			14679														
		STD	0200	0364	3484	2772	0004049	0129	14684														
195		OBS	T0216	0363	34839	2772			14686														
		STD	0250	0362	3485	2772	0004034	0149	14692														
195		OBS	0270	0361	34849	2773			14695														
		STD	0300	0362	3485	2773	0004042	0170	14700														
195		OBS	0323	0363	34654	2773			14705														
		STD	0400	0363	3466	2773	0004080	0210	14717														
195		OBS	T0430	0363	34860	2773			14722														
		STD	0500	0364	3486	2774	0004133	0251	14734														
195		OBS	0543	0365	34867	2774			14742														
		STD	0600	0366	3487	2774	0004191	0293	14751														
195		OBS	T0652	0366	34880	2775			14760														
		STD	0700	0366	3488	2775	0004187	0335	14766														
		STD	0800	0364	3489	2776	0004206	0377	14784														
195		OBS	0872	0363	34893	2776			14796														
		STD	0900	0362	3489	2776	0004239	0419	14800														
		STD	1000	0360	3489	2776	0004292	0462	14816														
195		OBS	T1092	0357	34895	2777			14830														

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MARSJOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT PER	SEA	
311157	ML	56288N	050517W	186 60	08 18 140	1967	027	005	3475	10	33	4		6	7			0005		

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		31	S17	030	100	089	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 $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	SIC
		STD	0000	0978	3460	2670	0013552	0000	14891								
140		OBS	0000	0978	34599	2670			14891								
		STD	0010	0972	3461	2671	0013418	0013	14890								
		STD	0020	0965	3461	2673	0013289	0027	14889								
140		OBS	0026	0961	34616	2674			14889								
		STD	0030	0673	3464	2690	0011681	0039	14857								
		STD	0050	0529	3475	2746	0006331	0057	14727								
140		OBS	0052	0503	34762	2750			14717								
		STD	0075	0433	3479	2761	0004985	0071	14692								
		STD	0100	0382	3483	2769	0004243	0083	14675								
140		OBS	0103	0378	34830	2770			14674								
		STD	0125	0372	3484	2771	0004061	0093	14675								
		STD	0150	0366	3484	2772	0004025	0104	14677								
140		OBS	0155	0365	34841	2772			14677								
		STD	0200	0360	3484	2772	0004007	0124	14682								
140		OBS	T0207	0359	34839	2772			14683								
		STD	0250	0361	3485	2773	0003985	0144	14691								
140		OBS	0257	0361	34855	2773			14693								
		STD	0300	0364	3486	2773	0004014	0164	14701								
140		OBS	0307	0364	34856	2773			14702								
		STD	0400	0357	3485	2773	0004074	0204	14715								
140		OBS	T0406	0357	34851	2773			14715								
		STD	0500	0356	3486	2774	0004079	0245	14731								
140		OBS	0507	0356	34861	2774			14732								
		STD	0600	0355	3487	2775	0004116	0286	14747								
140		OBS	T0608	0355	34865	2775			14748								
		STD	0700	0355	3487	2775	0004160	0327	14763								
		STD	0800	0354	3487	2775	0004236	0369	14780								
140		OBS	0814	0354	34870	2775			14782								
		STD	0900	0353	3487	2775	0004228	0412	14796								
		STD	1000	0351	3486	2775	0004416	0456	14812								
140		OBS	T1021	0351	34862	2775			14813								

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	MOOC STATION NUMBER						
CTRY CODE	ID. NO.					10"	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR				HGT	PER	SEA	TYPE	A.M.T	
311157	ML	56298N	050552W	186	00	08	19	133	1967	027	006	3475	14	33	2		6	2	0006						
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						33		504		000		111		083		7		14							

MESSNGR TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S Δ D DYN. H ₂ 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	Si C
		STD	0000	0992	3460	2667	0013799	0000	14890								
133		OBS	0000	0992	34596	2667			14890								
		STD	0010	0987	3459	2668	0013762	0014	14890								
		STD	0020	0982	3459	2668	0013733	0020	14895								
133		OBS	0024	0980	34588	2668			14895								
		STD	0030	0958	3464	2692	0011457	0040	14852								
133		OBS	0047	0955	34744	2739			14749								
		STD	0050	0956	3475	2742	0006762	0058	14742								
		STD	0075	0437	3479	2760	0005050	0073	14694								
133		OBS	0093	0360	34815	2768			14673								
		STD	0100	0379	3482	2769	0004258	0085	14674								
		STD	0125	0375	3484	2771	0004091	0095	14677								
133		OBS	0139	0372	34841	2771			14678								
		STD	0150	0369	3484	2771	0004054	0105	14678								
133		OBS	T0187	0361	34838	2772			14681								
		STD	0200	0361	3484	2772	0004019	0126	14683								
133		OBS	0232	0360	34842	2772			14688								
		STD	0250	0360	3485	2773	0004020	0146	14691								
133		OBS	0278	0361	34850	2773			14696								
		STD	0300	0361	3485	2773	0004017	0166	14700								
133		OBS	T0367	0361	34858	2773			14711								
		STD	0400	0361	3486	2774	0004044	0206	14716								
133		OBS	0460	0361	34863	2774			14726								
		STD	0500	0361	3487	2774	0004082	0247	14733								
133		OBS	0552	0360	34870	2775			14741								
		STD	0600	0361	3487	2775	0004116	0288	14750								
		STD	0700	0364	3488	2775	0004157	0329	14768								
133		OBS	0736	0365	34887	2775			14774								
		STD	0800	0360	3488	2775	0004228	0371	14782								
		STD	0900	0353	3488	2776	0004232	0413	14796								
133		OBS	T0916	0352	34875	2776			14799								
		STD	1000	0352	3488	2776	0004305	0456	14813								
		STD	1100	0352	3489	2777	0004344	0499	14829								
		STD	1200	0353	3489	2777	0004391	0543	14846								
		STD	1300	0353	3490	2777	0004430	0587	14863								
		STD	1400	0353	3490	2778	0004468	0631	14880								
133		OBS	T1415	0353	34904	2778			14883								

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	
311157		ML	56286N	05158W	186	61	08	20	139	1967	827	007	3475	15	32	1		6	6	0007

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (%)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		31	S05	160	094	078	8	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	ST CODE
		STD	0000	1000	3460	2666	0013936	0000	14899								
139		OBS	0000	1000	34595	2666			14899								
		STD	0010	0988	3460	2668	0013713	0014	14896								
		STD	0020	0975	3461	2671	0013490	0027	14893								
139		OBS	0025	0969	34610	2672			14892								
		STD	0030	0870	3464	2690	0011636	0040	14856								
		STD	0050	0559	3474	2742	0006754	0058	14739								
139		OBS	0051	0547	34747	2744			14734								
		STD	0075	0447	3479	2759	0005155	0073	14698								
		STD	0100	0381	3482	2768	0004278	0085	14675								
139		OBS	0101	0379	34823	2769			14674								
		STD	0125	0375	3484	2771	0004093	0096	14677								
		STD	0150	0371	3484	2771	0004077	0106	14679								
139		OBS	0152	0371	34845	2771			14679								
		STD	0200	0363	3485	2772	0004001	0126	14684								
139		OBS	T0205	0362	34845	2772			14684								
		STD	0250	0362	3485	2773	0003998	0146	14692								
139		OBS	0255	0362	34851	2773			14693								
		STD	0300	0365	3486	2773	0004031	0166	14701								
139		OBS	0306	0365	34856	2773			14702								
		STD	0400	0363	3487	2774	0003991	0206	14717								
139		OBS	T0407	0363	34874	2775			14718								
		STD	0500	0363	3488	2775	0004033	0246	14734								
139		OBS	0510	0363	34876	2775			14736								
		STD	0600	0363	3487	2774	0004142	0287	14750								
139		OBS	0612	0363	34872	2774			14752								
		STD	0700	0363	3487	2774	0004232	0329	14767								
		STD	0800	0364	3488	2775	0004309	0372	14784								
139		OBS	0816	0364	34875	2775			14787								
		STD	0900	0360	3488	2775	0004312	0415	14799								
		STD	1000	0357	3488	2776	0004360	0458	14815								
139		OBS	T1028	0356	34884	2776			14819								
		STD	1100	0356	3489	2776	0004375	0502	14831								
		STD	1200	0355	3489	2777	0004412	0546	14847								
		STD	1300	0354	3490	2777	0004448	0590	14864								
		STD	1400	0354	3490	2778	0004492	0635	14881								
		STD	1500	0353	3491	2778	0004527	0680	14897								
139		OBS	T1517	0353	34907	2778			14900								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN 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	ID. NO.					10"	10"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311	157	ML	56280N	050545W	18660	08	21	131	1967	b27	008	3475	15	20	1			3	1	0008
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTH'S		SPECIAL OBSERVATIONS								
COLOR		DIR.		METER		DRY BULB		WET BULB												
19		S07		170		094		083		7		14								

MISSING TIME HP 1-10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	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	SEC
		STD	0000	1009	3460	2664	0014067	0000	14902							
131		OBS	0000	1009	34597	2664			14902							
		STD	0010	0994	3460	2667	0013852	0014	14898							
		STD	0020	0980	3460	2669	0013831	0028	14895							
131		OBS	0024	0974	34598	2670			14893							
		STD	0030	0853	3464	2693	0011383	0040	14850							
131		OBS	0047	0582	34724	2738			14748							
		STD	0050	0566	3473	2740	0006912	0059	14742							
		STD	0075	0454	3479	2756	0005230	0074	14701							
131		OBS	0095	0397	34826	2767			14681							
		STD	0100	0394	3483	2768	0004332	0086	14680							
		STD	0125	0383	3484	2770	0004171	0096	14680							
131		OBS	0142	0377	34847	2771			14680							
		STD	0150	0375	3485	2771	0004039	0107	14681							
131		OBS	T0191	0368	34858	2773			14685							
		STD	0200	0367	3486	2773	0003952	0126	14686							
		STD	0250	0363	3485	2773	0003986	0146	14692							
131		OBS	0273	0362	34851	2773			14698							
131		OBS	0284	0362	34855	2773			14697							
		STD	0300	0362	3486	2774	0003967	0166	14700							
131		OBS	T0378	0362	34865	2774			14713							
		STD	0400	0361	3487	2774	0004007	0206	14716							
131		OBS	0469	0359	34865	2774			14727							
		STD	0500	0356	3487	2774	0004062	0246	14732							
131		OBS	0565	0357	34864	2774			14742							
		STD	0600	0357	3487	2774	0004136	0287	14746							
		STD	0700	0357	3487	2775	0004206	0329	14764							
131		OBS	0760	0356	34868	2775			14774							
		STD	0800	0355	3487	2775	0004246	0371	14780							
		STD	0900	0351	3488	2776	0004238	0414	14795							
131		OBS	T0967	0350	34880	2776			14806							
		STD	1000	0350	3488	2776	0004267	0456	14812							
		STD	1100	0351	3489	2777	0004320	0499	14829							
		STD	1200	0352	3489	2777	0004372	0543	14846							
		STD	1300	0353	3490	2777	0004426	0587	14863							
		STD	1400	0353	3490	2778	0004478	0631	14880							
		STD	1500	0354	3491	2778	0004531	0676	14898							
131		OBS	T1505	0354	34907	2778			14899							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DIR. INSET	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
311	157	ML	55230N	050460W		186	50	08	22	193	1967	B27	009	3475	14	12	12			1	2	0009

WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. 1M	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		19	S11	140	124	101	7	14	

MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	Σ Δ D DYN. M. X 10 ⁷	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C C
		STD	0000	1016	3456	2660	0014485	0000	14904								
193		OBS	0000	1016	34556	2660			14904								
		STD	0010	1010	3458	2663	0014234	0014	14904								
		STD	0020	1004	3459	2664	0014086	0029	14903								
193		OBS	0024	1002	34592	2665			14903								
		STD	0030	0832	3459	2692	0011438	0041	14841								
193		OBS	0049	0433	34587	2744			14685								
		STD	0050	0431	3459	2745	0006463	0059	14684								
		STD	0075	0398	3473	2760	0005100	0074	14676								
193		OBS	0097	0360	34816	2768			14674								
		STD	0100	0380	3482	2769	0004268	0085	14674								
		STD	0125	0378	3484	2770	0004121	0096	14678								
193		OBS	0146	0376	34854	2772			14681								
		STD	0150	0375	3485	2771	0004039	0106	14681								
193		OBS	T0196	0366	34848	2772			14684								
		STD	0200	0365	3485	2772	0003984	0126	14685								
193		OBS	0243	0360	34856	2773			14690								
		STD	0250	0361	3486	2774	0003913	0146	14691								
193		OBS	0289	0365	34862	2773			14700								
		STD	0300	0364	3486	2774	0003965	0166	14701								
193		OBS	T0383	0360	34869	2774			14713								
		STD	0400	0360	3487	2775	0003959	0205	14716								
193		OBS	0478	0359	34871	2775			14728								
		STD	0500	0360	3487	2775	0004031	0245	14733								
193		OBS	0574	0361	34875	2775			14745								
		STD	0600	0360	3488	2775	0004094	0286	14749								
		STD	0700	0356	3488	2775	0004128	0327	14764								
193		OBS	0765	0355	34876	2776			14774								
		STD	0800	0355	3488	2776	0004171	0368	14780								
		STD	0900	0355	3488	2776	0004255	0410	14797								
193		OBS	T0956	0355	34884	2776			14806								
		STD	1000	0355	3489	2777	0004263	0453	14814								
		STD	1100	0355	3489	2777	0004345	0496	14831								
		STD	1200	0355	3489	2777	0004427	0540	14847								
		STD	1300	0354	3490	2778	0004422	0584	14864								
		STD	1400	0354	3490	2778	0004503	0629	14881								
193		OBS	T1442	0354	34904	2778			14888								

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	
311157	ML	56288N	051105W	186	61	08	23	211	1967	627	010	3475	18	30	14		2	8	0010		
				WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mbs)	DRY BULB	WET BULB	VIS. CODE										
							28	505	120	088	067	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m/1	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\frac{\delta \Delta}{\Delta}$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C				
		STD	0000	0875	3455	2682	0012343	0000	14852												
	211	OBS	0000	0875	34547	2682			14852												
		STD	0010	0875	3455	2683	0012310	0012	14854												
		STD	0020	0875	3456	2683	0012278	0025	14855												
		STD	0030	0875	3457	2684	0012252	0037	14857												
	211	OBS	0031	0875	34568	2684			14857												
		STD	0050	0590	3469	2734	0007499	0057	14751												
	211	OBS	0059	0490	34738	2750			14712												
		STD	0075	0454	3478	2757	0005305	0073	14701												
		STD	0100	0409	3484	2767	0004410	0085	14687												
	211	OBS	0119	0385	34859	2771			14680												
		STD	0125	0382	3486	2771	0004026	0095	14680												
		STD	0150	0372	3485	2772	0003994	0105	14680												
	211	OBS	0177	0366	34846	2772			14681												
		STD	0200	0367	3485	2772	0004002	0125	14686												
	211	OBS	T0235	0368	34860	2773			14692												
		STD	0250	0366	3486	2773	0003956	0145	14694												
	211	OBS	0293	0364	34862	2773			14700												
		STD	0300	0365	3486	2773	0003975	0165	14701												
	211	OBS	0351	0368	34868	2774			14711												
		STD	0400	0365	3487	2774	0004034	0205	14718												
	211	OBS	T0466	0361	34865	2774			14727												
		STD	0500	0359	3487	2774	0004073	0246	14732												
	211	OBS	0583	0357	34864	2774			14745												
		STD	0600	0357	3487	2774	0004138	0287	14748												
	211	OBS	0699	0358	34868	2775			14765												
		STD	0700	0358	3487	2775	0004210	0328	14765												
		STD	0800	0356	3487	2775	0004266	0371	14780												
		STD	0900	0353	3487	2775	0004312	0414	14796												
	211	OBS	0937	0352	34869	2775			14802												
		STD	1000	0353	3487	2775	0004388	0457	14813												
		STD	1100	0353	3487	2775	0004469	0501	14830												
	211	OBS	T1186	0354	34873	2775			14844												
		STD	1200	0354	3487	2775	0004533	0546	14847												
		STD	1300	0354	3488	2776	0004579	0592	14864												
		STD	1400	0354	3489	2776	0004618	0638	14881												
		STD	1500	0355	3489	2777	0004655	0684	14898												
		STD	1750	0355	3491	2778	0004755	0802	14940												
	211	OBS	T1784	0355	34907	2778			14946												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.				SEA
311157	ML	56300N	050590W	186	60	08	25	130	1967	B27	011	3475	11	32	2				2	6		0011

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			
		32	S12	060	100	089	7	13	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	0863	3454	2684	0012216	0000	14847								
130		OBS	0000	0863	34540	2684			14847								
		STD	0010	0859	3454	2684	0012174	0012	14847								
		STD	0020	0855	3454	2685	0012134	0024	14847								
130		OBS	0027	0852	34540	2685			14848								
		STD	0030	0803	3457	2695	0011175	0036	14830								
		STD	0050	0541	3471	2742	0006768	0054	14731								
130		OBS	0053	0511	34728	2747			14720								
		STD	0075	0451	3480	2759	0005123	0069	14700								
		STD	0100	0405	3485	2768	0004294	0081	14685								
130		OBS	0105	0399	34861	2770			14684								
		STD	0125	0396	3487	2771	0004077	0091	14686								
		STD	0150	0391	3487	2771	0004050	0101	14688								
130		OBS	0158	0390	34872	2772			14689								
		STD	0200	0381	3487	2772	0003988	0121	14692								
130		OBS	T0212	0379	34871	2773			14693								
		STD	0250	0370	3487	2773	0003967	0141	14695								
130		OBS	0265	0368	34862	2773			14697								
		STD	0300	0367	3486	2773	0004014	0161	14702								
130		OBS	0318	0367	34861	2773			14705								
		STD	0400	0363	3486	2774	0004058	0201	14717								
130		OBS	T0428	0362	34861	2774			14721								
		STD	0500	0360	3486	2774	0004113	0242	14732								
130		OBS	0530	0359	34861	2774			14737								
		STD	0600	0359	3486	2774	0004173	0284	14749								
130		OBS	0630	0359	34864	2774			14755								
		STD	0700	0357	3487	2775	0004184	0326	14764								
		STD	0800	0354	3487	2775	0004234	0368	14780								
130		OBS	0851	0353	34871	2775			14788								
		STD	0900	0352	3487	2775	0004280	0410	14796								
		STD	1000	0352	3488	2776	0004339	0453	14812								
130		OBS	T1060	0352	34877	2776			14822								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311157	ML	56308N	050555W	186	00	08	26	135	1967	027	012	3475	15	16	2		7	3	0012		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTH		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS IMI	DIR.	SPEED OF FORCE	METER (mbs)	DRY BULB	WET BULB	CODS												
				16	503	030	089	083	7	14											

MESSNGR TIME HR	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - t10 ³	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	Q C C
		STD	0000	0894	3455	2680	0012577	0000	14859								
135		OBS	0000	0894	34554	2680			14859								
		STD	0010	0884	3456	2682	0012422	0012	14857								
		STD	0020	0875	3456	2684	0012267	0025	14855								
135		OBS	0025	0870	34564	2684			14854								
		STD	0030	0767	3452	2697	0011032	0036	14815								
		STD	0050	0456	3435	2723	0008533	0056	14692								
135		OBS	0051	0445	34340	2724			14667								
		STD	0075	0430	3466	2751	0005948	0074	14689								
		STD	0100	0414	3487	2769	0004232	0087	14689								
135		OBS	0101	0413	34880	2770			14689								
		STD	0125	0411	3489	2771	0004081	0097	14692								
		STD	0150	0409	3489	2771	0004087	0107	14696								
135		OBS	0152	0409	34895	2771			14696								
		STD	0200	0402	3490	2772	0004004	0128	14701								
135		OBS	T0202	0402	34898	2772			14701								
		STD	0250	0386	3489	2773	0003943	0148	14702								
135		OBS	0252	0385	34886	2773			14702								
		STD	0300	0373	3487	2774	0003970	0167	14705								
135		OBS	0302	0372	34873	2774			14705								
		STD	0400	0361	3487	2774	0003971	0207	14716								
135		OBS	T0401	0361	34868	2774			14717								
		STD	0500	0360	3487	2775	0004046	0247	14733								
135		OBS	0501	0360	34870	2775			14733								
		STD	0600	0360	3487	2775	0004117	0288	14749								
135		OBS	0602	0360	34872	2775			14749								
		STD	0700	0358	3487	2775	0004166	0329	14765								
		STD	0800	0356	3488	2775	0004213	0371	14781								
135		OBS	0803	0356	34876	2775			14781								
		STD	0900	0354	3488	2776	0004268	0414	14796								
		STD	1000	0351	3488	2776	0004314	0457	14812								
135		OBS	1004	0351	34877	2776			14813								
		STD	1100	0352	3488	2776	0004384	0500	14829								
		STD	1200	0353	3488	2776	0004477	0544	14846								
		STD	1300	0354	3489	2777	0004496	0589	14864								
		STD	1400	0355	3490	2777	0004515	0634	14881								
		STD	1500	0356	3491	2778	0004564	0680	14899								
135		OBS	T1500	0356	34906	2778			14899								

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

311157		ML	56355N	050535W		186	60	08	27	145	1967	B27	013		3475	15	35	4			4	d	0013
WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (mm)		DIR.		SPEED OR FORCE																	
		14		S04		140		100		089		7		14									

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ⁰	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	SEC
		STO	0000	0871	3453	2681	0012439	0000	14850								
145		OBS	0000	0871	34526	2681			14850								
		STD	0010	0872	3452	2681	0012515	0012	14852								
		STD	0020	0873	3451	2680	0012590	0025	14854								
145		OBS	0025	0873	34511	2680			14855								
		STD	0030	0778	3456	2698	0010895	0037	14820								
		STD	0050	0491	3471	2748	0006203	0054	14711								
145		OBS	0051	0480	34719	2750			14707								
		STD	0075	0437	3481	2762	0004900	0068	14694								
		STD	0100	0411	3487	2769	0004190	0079	14688								
145		OBS	0100	0411	34872	2769			14688								
		STD	0125	0414	3489	2771	0004106	0089	14693								
		STD	0150	0416	3490	2771	0004081	0100	14699								
145		OBS	0151	0416	34901	2771			14699								
		STD	0200	0404	3489	2772	0004067	0120	14702								
145		OBS	T0206	0402	34891	2772			14702								
		STD	0250	0388	3488	2773	0004009	0140	14703								
145		OBS	0252	0387	34884	2773			14703								
		STD	0300	0374	3487	2773	0004015	0160	14705								
145		OBS	0303	0373	34865	2773			14705								
		STD	0400	0365	3487	2774	0004006	0200	14718								
145		OBS	T0405	0364	34872	2774			14718								
		STD	0500	0360	3486	2774	0004108	0241	14732								
145		OBS	0504	0360	34861	2774			14733								
		STD	0600	0362	3487	2774	0004175	0282	14750								
145		OBS	0606	0362	34867	2774			14751								
		STD	0700	0360	3487	2775	0004214	0324	14766								
		STD	0800	0357	3487	2775	0004270	0367	14781								
145		OBS	0808	0357	34871	2775			14782								
		STD	0900	0355	3487	2775	0004323	0410	14797								
		STD	1000	0353	3487	2775	0004375	0453	14813								
145		OBS	1010	0353	34872	2775			14814								
		STD	1100	0354	3488	2776	0004431	0497	14830								
		STD	1200	0354	3488	2776	0004482	0542	14847								
		STD	1300	0355	3489	2776	0004541	0587	14864								
		STD	1400	0355	3489	2777	0004592	0633	14881								
		STD	1500	0356	3489	2777	0004651	0679	14898								
145		OBS	T1512	0356	34895	2777			14900								

REFERENCE		SHIP CODE	LATITUDE ° 10'	LONGITUDE ° 10'	DRIFT INDICATOR	MARS DEN SOUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.		10'	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311	157	ML	56325N	05101W		106	61	08	28	187	1967	B27	014	3475	15	10	1			6	8	0014

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIC. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		05	503	090	128	111	7	14	

MESSNGR TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S.C.C.
		STD	0000	0902	3446	2671	0013410	0000	14861								
187		OBS	0000	0902	34458	2671			14861								
		STD	0010	0887	3447	2674	0013117	0013	14857								
		STD	0020	0872	3450	2679	0012691	0026	14854								
187		OBS	0025	0865	34520	2682			14852								
		STD	0030	0786	3455	2696	0011082	0038	14823								
		STD	0050	0540	3468	2740	0006981	0056	14731								
187		OBS	0051	0531	34681	2741			14727								
		STD	0075	0456	3479	2758	0005251	0071	14702								
		STD	0100	0407	3486	2769	0004239	0083	14666								
187		OBS	0101	0406	34861	2769			14686								
		STD	0125	0405	3487	2770	0004169	0094	14690								
		STD	0150	0404	3488	2771	0004109	0104	14693								
187		OBS	0153	0404	34881	2771			14694								
		STD	0200	0392	3488	2772	0004018	0124	14697								
187		OBS	T0204	0391	34882	2772			14697								
		STD	0250	0382	3487	2773	0004022	0145	14701								
187		OBS	0256	0381	34873	2773			14701								
		STD	0300	0375	3487	2773	0004026	0165	14706								
187		OBS	0307	0374	34869	2773			14706								
		STD	0400	0369	3487	2773	0004070	0205	14720								
187		OBS	0408	0368	34867	2773			14721								
		STD	0500	0364	3487	2774	0004098	0246	14734								
187		OBS	0509	0363	34868	2774			14735								
		STD	0600	0362	3487	2774	0004154	0287	14750								
187		OBS	T0610	0362	34871	2774			14752								
		STD	0700	0360	3487	2775	0004199	0329	14766								
		STD	0800	0357	3487	2775	0004241	0371	14781								
187		OBS	0807	0357	34874	2775			14782								
		STD	0900	0355	3488	2775	0004292	0414	14797								
		STD	1000	0354	3488	2776	0004348	0457	14813								
187		OBS	1000	0354	34877	2776			14813								
		STD	1100	0355	3488	2776	0004423	0501	14831								
		STD	1200	0357	3489	2776	0004445	0545	14848								
		STD	1300	0358	3489	2776	0004543	0590	14865								
		STD	1400	0359	3490	2777	0004565	0636	14883								
187		OBS	T1477	0360	34905	2777			14896								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311157	ML	56340N	050540W	186	60	08	29	130	1967	627	015	3475	15	20	4	50	7	8	0015	
		WATER		WIND		BARO- METER		AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB	VIS. CODE										
				21	S20	078	089	089	6	14										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₂ -Si µg - dl/l	pH	S C C
		STD	0000	0881	3453	2680	0012529	0000	14854								
130		OBS	0000	0881	34534	2680			14854								
		STD	0010	0880	3453	2680	0012546	0013	14855								
		STD	0020	0880	3453	2680	0012562	0025	14857								
130		OBS	0028	0879	34531	2680			14858								
		STD	0030	0842	3455	2688	0011888	0037	14844								
		STD	0050	0550	3472	2741	0006621	0056	14735								
130		OBS	0050	0550	34717	2741			14735								
		STD	0075	0462	3479	2757	0005338	0071	14704								
		STD	0100	0408	3486	2769	0004272	0083	14687								
130		OBS	0101	0407	34860	2769			14688								
		STD	0125	0406	3488	2771	0004104	0094	14690								
130		OBS	0149	0404	34888	2771			14693								
		STD	0150	0404	3489	2771	0004048	0104	14693								
130		OBS	T0197	0394	34886	2772			14697								
		STD	0200	0392	3488	2772	0004033	0124	14697								
130		OBS	0243	0378	34867	2772			14698								
		STD	0250	0376	3487	2773	0004012	0144	14699								
130		OBS	0290	0379	34883	2774			14706								
		STD	0300	0377	3488	2774	0003972	0164	14707								
130		OBS	T0382	0364	34868	2774			14713								
		STD	0400	0364	3487	2774	0004016	0204	14718								
130		OBS	0473	0364	34866	2774			14730								
		STD	0500	0362	3487	2774	0004097	0245	14733								
130		OBS	0560	0360	34867	2774			14742								
		STD	0600	0360	3487	2775	0004132	0286	14749								
		STD	0700	0360	3487	2775	0004217	0328	14766								
130		OBS	0745	0360	34872	2775			14773								
		STD	0800	0359	3487	2775	0004271	0370	14782								
		STD	0900	0358	3487	2775	0004329	0413	14798								
130		OBS	0940	0357	34875	2775			14805								
		STD	1000	0357	3488	2776	0004364	0456	14815								
		STD	1100	0358	3488	2776	0004454	0501	14832								
		STD	1200	0359	3488	2775	0004543	0546	14849								
		STD	1300	0359	3489	2776	0004557	0591	14866								
		STD	1400	0360	3490	2777	0004573	0637	14883								
130		OBS	T1472	0360	34901	2777			14895								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
31	1157	ML	56300N	051000W	186	61	08	30	130	1967	B27	016	3475	35	10	2		50	08	0010	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIE CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		SPEED OR FORCE		DRY BULB		WET BULB													
06		S15		040		100		094		6		19									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	Δ	Δ	Δ	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₂ -Si µg - at/l	pH	S C C		
		STD	0000	0887	3451	2677	0012813				0000	14856									
130		OBS	0000	0887	34508	2677					14856										
		STD	0010	0884	3451	2678	0012779			0013	14856										
		STD	0020	0880	3451	2678	0012747			0026	14857										
130		OBS	0026	0878	34508	2679					14857										
		STD	0030	0805	3455	2693	0011352			0038	14830										
		STD	0050	0519	3473	2746	0006367			0055	14723										
130		OBS	0053	0487	34748	2751					14710										
		STD	0075	0435	3480	2761	0004954			0069	14693										
		STD	0100	0398	3484	2768	0004298			0081	14682										
130		OBS	0104	0394	34847	2769					14681										
		STD	0125	0394	3485	2769	0004210			0092	14685										
		STD	0150	0395	3486	2770	0004164			0102	14689										
130		OBS	0156	0395	34866	2771					14690										
		STD	0200	0409	3490	2772	0004064			0123	14704										
130		OBS	T0208	0412	34904	2772					14707										
		STD	0250	0385	3487	2772	0004083			0143	14702										
130		OBS	0258	0382	34866	2772					14702										
		STD	0300	0378	3487	2773	0004064			0163	14707										
130		OBS	0308	0377	34870	2773					14708										
		STD	0400	0370	3487	2774	0004064			0204	14720										
130		OBS	T0407	0369	34866	2773					14721										
		STD	0500	0358	3486	2774	0004099			0245	14732										
130		OBS	0510	0357	34856	2774					14733										
		STD	0600	0358	3486	2774	0004191			0286	14748										
130		OBS	0614	0358	34859	2774					14750										
		STD	0700	0356	3486	2774	0004251			0329	14764										
		STD	0800	0354	3486	2774	0004313			0371	14780										
130		OBS	0820	0354	34864	2775					14783										
		STD	0900	0354	3487	2775	0004342			0415	14796										
		STD	1000	0353	3487	2775	0004404			0458	14813										
130		OBS	T1025	0353	34869	2775					14817										
		STD	1100	0354	3487	2775	0004481			0503	14830										
		STD	1200	0355	3487	2775	0004579			0548	14847										
		STD	1300	0357	3488	2776	0004604			0594	14865										
		STD	1400	0358	3488	2776	0004702			0641	14882										
		STD	1500	0360	3489	2776	0004727			0688	14900										
130		OBS	1530	0360	34891	2776					14905										
		STD	1750	0357	3491	2778	0004747			0806	14941										
		STD	2000	0352	3493	2780	0004728			0925	14982										
152		OBS	T2018	0351	34933	2780					14985										
		STD	2500	0331	3494	2783	0004747			1161	15059										
152		OBS	2523	0329	34937	2783					15062										
		STD	3000	0271	3490	2785	0004424			1391	15119										
152		OBS	3029	0266	34900	2786					15122										
152		OBS	T3360	0206	34892	2790					15154										
152		OBS	3461	0186	34904	2793					15163										

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DRIFT	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	IO. NO.					10"	1"	MO	DAY	HR.		MIN.	CRUISE NO.			STATION NUMBER	DIR.	HGT.	PER.		SEA.	TYPE	
31	1157	ML	56300N	050580W		186	60	08	31	131	1967	B27	017	3475	16	3	4			3	6	0017	

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		30	S15	067	083	056	7	14	

MESSNGR TIME	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND ALK-10 ³	S Δ O OTH. SA. 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	DIS. COC.
		STD	0000	0870	3448	2678	0012795	0000	14849								
		OBS	0000	0870	34476	2678			14849								
		STD	0010	0868	3448	2678	0012733	0013	14850								
		STD	0020	0865	3449	2679	0012670	0025	14851								
131		OBS	0024	0864	34490	2680			14851								
		STD	0030	0726	3453	2703	0010403	0037	14799								
131		OBS	0049	0408	34662	2753			14676								
		STD	0050	0409	3467	2754	0005637	0053	14676								
		STD	0075	0430	3482	2763	0004751	0066	14691								
131		OBS	0099	0440	34908	2769			14700								
		STD	0100	0440	3491	2769	0004208	0077	14701								
		STD	0125	0436	3492	2771	0004117	0088	14703								
131		OBS	0148	0433	34921	2771			14706								
		STD	0150	0433	3492	2771	0004104	0098	14706								
131		OBS	T0197	0431	34925	2771			14713								
		STD	0200	0429	3492	2771	0004122	0118	14713								
131		OBS	0246	0406	34913	2773			14710								
		STD	0250	0405	3491	2773	0003992	0139	14711								
131		OBS	0297	0392	34892	2773			14713								
		STD	0300	0391	3489	2773	0004043	0159	14713								
131		OBS	T0394	0374	34882	2774			14722								
		STD	0400	0374	3488	2774	0004031	0199	14722								
		STD	0500	0366	3488	2774	0004065	0240	14733								
131		OBS	0500	0366	34876	2774			14735								
		STD	0600	0366	3488	2775	0004122	0281	14752								
131		OBS	0602	0366	34882	2775			14752								
		STD	0700	0362	3488	2775	0004132	0322	14767								
		STD	0800	0358	3488	2776	0004195	0364	14782								
131		OBS	0810	0358	34882	2776			14783								
		STD	0900	0357	3488	2776	0004264	0406	14796								
		STD	1000	0356	3488	2776	0004343	0449	14814								
131		OBS	T1014	0356	34881	2776			14817								
		STD	1100	0356	3489	2776	0004398	0493	14831								
		STD	1200	0357	3489	2776	0004455	0537	14848								
		STD	1300	0357	3489	2777	0004511	0582	14863								
		STD	1400	0357	3490	2777	0004567	0627	14882								
		STD	1500	0358	3490	2777	0004624	0673	14899								
131		OBS	T1561	0358	34904	2777			14910								

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		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10'	'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
31	1157	ML	56240N	050085W	186	60	09	02	133	1967	B27	018	3475	16	29	2		3	2	0016	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. MIB		DIR.		SPEED OR FORCE		METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
								29		S16		790		089		061		7		13	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\frac{\sigma_t}{\rho}$ DYN. M, x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	SEC
		STD	0000	0998	3452	2660	0014451	0000	14897								
133		OBS	0000	0998	34521	2660			14897								
		STD	0010	0998	3452	2660	0014494	0014	14899								
		STD	0020	0998	3452	2660	0014538	0029	14900								
133		OBS	0025	0998	34514	2660			14901								
		STD	0030	0892	3457	2681	0012487	0043	14863								
		STD	0050	0563	3473	2741	0006869	0062	14741								
133		OBS	0050	0563	34731	2741			14741								
		STD	0075	0461	3478	2757	0005380	0077	14703								
		STD	0100	0397	3481	2766	0004513	0090	14681								
133		OBS	0101	0395	34815	2767			14681								
		STD	0125	0392	3484	2769	0004261	0101	14684								
		STD	0150	0388	3486	2771	0004094	0111	14686								
133		OBS	0153	0387	34861	2771			14686								
		STD	0200	0375	3486	2772	0004007	0131	14689								
133		OBS	0203	0374	34856	2772			14689								
		STD	0250	0371	3486	2772	0004045	0151	14696								
133		OBS	0252	0371	34856	2772			14696								
		STD	0300	0365	3485	2773	0004036	0172	14701								
133		OBS	0304	0364	34854	2773			14702								
		STD	0400	0363	3486	2773	0004065	0212	14717								
133		OBS	T0404	0363	34860	2773			14718								
		STD	0500	0362	3486	2774	0004115	0253	14733								
		STD	0600	0360	3487	2774	0004163	0294	14749								
133		OBS	0605	0360	34866	2774			14750								
		STD	0700	0361	3488	2775	0004162	0336	14766								
		STD	0800	0362	3489	2776	0004205	0378	14783								
133		OBS	0806	0362	34887	2776			14785								
		STD	0900	0360	3489	2776	0004250	0420	14799								
		STD	1000	0357	3489	2776	0004299	0463	14815								
133		OBS	T1016	0357	34889	2776			14817								
		STD	1100	0357	3489	2777	0004350	0506	14831								
		STD	1200	0356	3490	2777	0004395	0550	14848								
		STD	1300	0356	3490	2777	0004448	0594	14865								
		STD	1400	0355	3490	2778	0004492	0639	14881								
		STD	1500	0354	3491	2778	0004536	0684	14898								
133		OBS	T1565	0354	34909	2778			14909								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	ORBIT REV./D	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
CRUISE CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311157	ML	56295N	050558W	186	60	09	03	146	1967	B27	019	3475	13	32	2				8	5			0019

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB		
		32	516	130	078	061	7	14

MESSAGE TIME HR. /10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S Δ D DWN. 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
		STO	0000	0870	3451	2680	0012536	0000	14850								
146		OBS	0000	0870	34511	2680			14850								
		STO	0010	0870	3451	2680	0012583	0013	14851								
		STD	0020	0871	3451	2680	0012629	0025	14853								
146		OBS	0027	0871	34503	2680			14854								
		STD	0030	0825	3453	2689	0011789	0037	14838								
		STD	0050	0577	3466	2733	0007581	0057	14745								
146		OBS	0050	0577	34658	2733			14745								
		STD	0075	0484	3479	2757	0005337	0073	14705								
146		OBS	0099	0399	34858	2770			14683								
		STD	0100	0399	3486	2770	0004158	0085	14683								
		STD	0125	0394	3486	2770	0004131	0095	14685								
146		OBS	0145	0390	34861	2771			14686								
		STD	0150	0389	3486	2771	0004097	0105	14887								
146		OBS	0191	0381	34862	2772			14690								
		STD	0200	0379	3486	2772	0004035	0126	14691								
146		OBS	0239	0374	34863	2773			14695								
		STD	0250	0373	3486	2773	0004005	0146	14697								
146		OBS	0285	0371	34868	2773			14702								
		STD	0300	0370	3487	2773	0003989	0166	14704								
146		OBS	T0377	0365	34870	2774			14714								
		STD	0400	0364	3487	2774	0004001	0206	14718								
146		OBS	0463	0361	34870	2774			14727								
		STD	0500	0361	3487	2774	0004056	0246	14733								
146		OBS	0551	0360	34870	2775			14741								
		STD	0600	0359	3487	2775	0004106	0287	14749								
		STD	0700	0357	3488	2775	0004139	0328	14765								
146		OBS	0722	0356	34877	2775			14768								
		STD	0800	0354	3488	2776	0004190	0370	14780								
146		OBS	0890	0352	34875	2776			14794								
		STD	0900	0352	3488	2776	0004258	0412	14796								
		STD	1000	0353	3488	2776	0004332	0455	14813								
		STD	1100	0355	3488	2776	0004406	0499	14830								
		STD	1200	0356	3489	2776	0004472	0543	14848								
		STD	1300	0357	3489	2776	0004546	0588	14865								
146		OBS	T1312	0357	34888	2776			14867								

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	
31	1157	ML	55480N	049510W	185	59	09	04	139	1967	B27	020	3475	14	32	5		6	8	0020

WATER		WIND		BARO- METER (mbs)	AIR TEMP °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		31	S13	250	083	078	6	14	

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S . .	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0906	3459	2681	0012500	0000	14864								
139		OBS	0000	0906	34589	2681			14864								
		STD	0010	0905	3459	2681	0012496	0012	14865								
		STD	0020	0904	3459	2681	0012499	0025	14866								
139		OBS	0027	0903	34591	2681			14867								
		STD	0030	0837	3462	2694	0011296	0037	14843								
139		OBS	0049	0511	34763	2750			14720								
		STD	0050	0507	3476	2750	0005977	0054	14718								
		STD	0075	0431	3480	2761	0004942	0068	14691								
139		OBS	0099	0384	34827	2769			14676								
		STD	0100	0384	3483	2769	0004232	0079	14676								
		STD	0125	0375	3483	2770	0004166	0090	14676								
139		OBS	0145	0369	34835	2771			14677								
		STD	0150	0368	3484	2771	0004082	0100	14678								
139		OBS	T0192	0362	34837	2772			14682								
		STD	0200	0364	3484	2772	0004049	0120	14684								
139		OBS	0236	0366	34859	2773			14692								
		STD	0250	0366	3486	2773	0003971	0140	14694								
139		OBS	0282	0363	34858	2773			14698								
		STD	0300	0363	3486	2773	0003978	0160	14701								
139		OBS	T0370	0363	34866	2774			14712								
		STD	0400	0361	3487	2774	0004000	0200	14716								
139		OBS	0458	0359	34866	2774			14725								
		STD	0500	0360	3487	2774	0004063	0241	14732								
139		OBS	0543	0360	34869	2774			14740								
		STD	0600	0359	3487	2775	0004125	0281	14749								
		STD	0700	0358	3487	2775	0004197	0323	14765								
139		OBS	0718	0358	34873	2775			14766								
		STD	0800	0358	3488	2775	0004235	0365	14782								
139		OBS	T0898	0358	34879	2775			14798								
		STD	0900	0358	3488	2775	0004296	0408	14798								
		STD	1000	0358	3488	2776	0004355	0451	14815								
		STD	1100	0359	3489	2776	0004420	0495	14832								
		STD	1200	0359	3489	2776	0004478	0540	14849								
		STD	1300	0360	3489	2776	0004543	0585	14866								
		STD	1400	0360	3490	2777	0004600	0630	14883								
139		OBS	T1409	0360	34897	2777			14885								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER
31	1157	ML	54575N	050495W		186	40	09	05	135	1967	B27	021	3475	15	22	1			6	7	0021

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			
		21	514	200	089	067	7	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl ⁻¹	TOTAL-P μg - dl ⁻¹	NO ₂ -N μg - dl ⁻¹	NO ₃ -N μg - dl ⁻¹	SiO ₄ -Si μg - dl ⁻¹	pH	CO ₂
		STD	0000	0960	3446	2662	0014302	0000	14882								
135		OBS	0000	0960	34459	2662			14882								
		STD	0010	0960	3447	2662	0014277	0014	14884								
		STD	0020	0961	3447	2663	0014253	0029	14886								
135		OBS	0026	0961	34477	2663			14887								
		STD	0030	0880	3453	2680	0012602	0042	14856								
		STD	0050	0561	3472	2740	0006927	0062	14740								
135		OBS	0051	0549	34726	2742			14735								
		STD	0075	0457	3478	2757	0005344	0077	14702								
		STD	0100	0395	3484	2768	0004305	0089	14681								
135		OBS	0101	0393	34837	2769			14680								
		STD	0125	0386	3484	2770	0004176	0100	14681								
		STD	0150	0378	3485	2771	0004072	0110	14682								
135		OBS	0151	0378	34850	2771			14682								
		STD	0200	0375	3486	2772	0004030	0130	14688								
135		OBS	T0203	0373	34855	2772			14689								
		STD	0250	0369	3486	2773	0003996	0150	14695								
135		OBS	0253	0369	34860	2773			14695								
		STD	0300	0364	3486	2773	0003982	0170	14701								
135		OBS	0302	0364	34861	2773			14701								
		STD	0400	0365	3487	2774	0004011	0210	14718								
135		OBS	T0401	0365	34873	2774			14718								
		STD	0500	0362	3488	2775	0004007	0250	14733								
135		OBS	0500	0362	34878	2775			14733								
135		OBS	0598	0362	34883	2775			14750								
		STD	0600	0362	3488	2775	0004057	0290	14750								
		STD	0700	0358	3488	2776	0004098	0331	14765								
135		OBS	0799	0355	34883	2776			14780								
		STD	0800	0355	3488	2776	0004149	0372	14780								
		STD	0900	0354	3488	2776	0004213	0414	14797								
		STD	1000	0353	3489	2776	0004277	0457	14813								
135		OBS	T1002	0353	34885	2776			14813								
		STD	1100	0353	3489	2777	0004326	0500	14830								
		STD	1200	0354	3489	2777	0004411	0543	14847								
		STD	1300	0354	3490	2778	0004423	0588	14864								
		STD	1400	0355	3491	2778	0004436	0632	14881								
		STD	1500	0355	3492	2779	0004447	0676	14898								
135		OBS	T1533	0355	34922	2779			14904								

Table IX. Observed and interpolated oceanographic data for stations taken by USCGC SPENCER at Ocean Station BRAVO, 1-20 October 1967, prepared from NODC listing No. 31-1174 SC.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FATHOMS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 'S'AMPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER																													
CITY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.		SEA	TYPE		AMT																												
311	1174	SC	5634 N	05053 W	186	60	10	01	113	1967	828	001	3658	15	20	0	2	06	5	7	0001																														
<table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th colspan="2">BARO-METER</th> <th colspan="3">AIR TEMP. °C</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>(mba)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>WIB. CODE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>18</td> <td>SU7</td> <td>031</td> <td>078</td> <td>072</td> <td>7</td> <td>14</td> <td></td> <td></td> </tr> </tbody> </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	WIB. CODE			18	SU7	031	078	072	7	14		
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	WIB. CODE																																												
		18	SU7	031	078	072	7	14																																											
MESSAGE TIME HP 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10 ³	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₂ -Si μg - at/l	PH	S/C/G																																		
		STD	0000	0863	3459	2687	0011882	0000	14848																																										
113		OBS	0000	0863	34585	2687			14848																																										
		STD	0010	0863	3459	2687	0011886	0012	14849																																										
		STD	0020	0863	3459	2688	0011891	0024	14851																																										
113		OBS	0025	0863	34590	2688			14852																																										
		STD	0030	0786	3462	2702	0010562	0035	14824																																										
		STD	0050	0541	3472	2743	0006694	0052	14731																																										
113		OBS	0051	0531	34729	2745			14728																																										
		STD	0075	0444	3479	2759	0005123	0067	14697																																										
		STD	0100	0386	3482	2768	0004327	0079	14677																																										
113		OBS	0103	0382	34828	2769			14676																																										
		STD	0125	0379	3484	2770	0004131	0089	14678																																										
		STD	0150	0377	3484	2771	0004126	0100	14681																																										
113		OBS	0150	0377	34841	2771			14681																																										
113		OBS	0196	0376	34846	2771			14689																																										
		STD	0200	0375	3484	2771	0004159	0120	14689																																										
113		OBS	0248	0368	34836	2771			14694																																										
		STD	0250	0368	3484	2771	0004134	0141	14694																																										
113		OBS	0296	0366	34841	2772			14701																																										
		STD	0300	0366	3484	2772	0004150	0162	14702																																										
113		OBS	T0392	0366	34842	2772			14717																																										
		STD	0400	0366	3484	2772	0004216	0204	14716																																										
113		OBS	0491	0365	34863	2773			14733																																										
		STD	0500	0365	3486	2773	0004151	0246	14735																																										
113		OBS	0589	0364	34864	2774			14749																																										
		STD	0600	0364	3487	2774	0004212	0287	14751																																										
		STD	0700	0364	3487	2774	0004254	0330	14767																																										
113		OBS	0799	0363	34877	2775			14784																																										
		STD	0800	0363	3488	2775	0004261	0372	14784																																										
		STD	0900	0361	3488	2775	0004323	0415	14800																																										
113		OBS	T0985	0360	34882	2775			14813																																										
		STD	1000	0360	3488	2775	0004381	0459	14816																																										
		STD	1100	0358	3488	2776	0004425	0503	14832																																										
		STD	1200	0357	3489	2776	0004481	0547	14848																																										
		STD	1300	0356	3489	2776	0004535	0592	14865																																										
		STD	1400	0356	3489	2777	0004601	0638	14881																																										
		STD	1500	0355	3489	2777	0004654	0684	14898																																										
113		OBS	T1523	0355	34692	2777			14902																																										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311	174	SC	5629 N	05109 W	186	61	10	03	105	1967	B28	002	5856	15	34	1	2	7	5	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			
		12	S05	125	083	061	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. K 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C C
		STD	0000	0851	3459	2889	0011705	0000	14843								
105		OBS	0000	0851	34585	2889			14843								
		STD	0010	0842	3459	2691	0011577	0012	14842								
		STD	0020	0831	3459	2692	0011420	0023	14839								
105		OBS	0024	0826	34590	2693			14838								
		STD	0030	0826	3459	2694	0011328	0035	14839								
105		OBS	0047	0791	34604	2700			14828								
		STD	0050	0796	3462	2708	0010177	0056	14816								
		STD	0075	0518	3478	2749	0008161	0076	14727								
105		OBS	0095	0399	34832	2788			14882								
		STD	0100	0395	3483	2768	0004326	0090	14661								
		STD	0125	0380	3483	2770	0004186	0100	14679								
105		OBS	0143	0375	34835	2770			14679								
		STD	0150	0377	3464	2770	0004134	0111	14661								
105		OBS	0191	0382	34878	2773			14691								
		STD	0200	0379	3487	2773	0003975	0131	14691								
105		OBS	0241	0372	34889	2773			14695								
		STD	0250	0373	3487	2773	0003960	0151	14697								
105		OBS	0288	0374	34871	2773			14703								
		STD	0300	0373	3487	2773	0003990	0171	14705								
105		OBS	T0386	0369	34881	2775			14718								
		STD	0400	0368	3468	2775	0003946	0210	14720								
105		OBS	0480	0363	34893	2776			14731								
		STD	0500	0361	3489	2776	0003907	0250	14733								
105		OBS	T0570	0356	34880	2776			14743								
		STD	0600	0357	3488	2776	0004006	0289	14748								
		STD	0700	0359	3489	2776	0004061	0329	14765								
105		OBS	0766	0360	34893	2778			14777								
		STD	0800	0359	3489	2777	0004112	0370	14782								
		STD	0900	0355	3490	2777	0004136	0412	14797								
105		OBS	T0986	0353	34897	2777			14807								
		STD	1000	0353	3490	2778	0004168	0453	14813								
		STD	1100	0354	3490	2778	0004258	0495	14830								
		STD	1200	0354	3490	2777	0004345	0538	14847								
		STD	1300	0355	3491	2778	0004359	0582	14864								
		STD	1400	0355	3491	2778	0004447	0626	14881								
		STD	1500	0356	3491	2778	0004533	0671	14899								
105		OBS	T1512	0356	34914	2778			14901								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA							
311174	SC	5626 N	05100 W		186	61	10	04	101	1967	B28	003	3628	10	20	1	2		5	7		0003			
				WATER		WIND		BARO-METER (mba)		AIR TEMP. °C															
				COLOR CODE		TRANS. (m)		OIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
										18		S10		902		100		094		7		13			

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0	$\Sigma \Delta \sigma$ 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.
		STD	0000	0849	3459	2690	0011646	0000	14843								
101		OBS	0000	0849	34589	2690			14843								
		STD	0010	0848	3459	2690	0011654	0012	14844								
		STD	0020	0847	3459	2690	0011661	0023	14845								
101		OBS	0024	0846	34586	2690			14845								
		STD	0030	0766	3462	2705	0010281	0034	14816								
101		OBS	0049	0561	34710	2739			14739								
		STD	0050	0556	3471	2740	0006928	0051	14737								
		STD	0075	0446	3476	2756	0005400	0067	14697								
101		OBS	0098	0384	34797	2766			14675								
		STD	0100	0384	3480	2767	0004458	0079	14676								
		STD	0125	0381	3480	2767	0004451	0090	14678								
101		OBS	0149	0378	34802	2767			14681								
		STD	0150	0378	3480	2767	0004422	0101	14681								
		STD	0200	0373	3483	2770	0004222	0123	14688								
101		OBS	T0200	0373	34829	2770			14688								
101		OBS	0247	0364	34829	2771			14692								
		STD	0250	0364	3483	2771	0004169	0144	14692								
101		OBS	0297	0366	34857	2773			14701								
		STD	0300	0366	3486	2773	0004008	0164	14702								
101		OBS	T0390	0364	34869	2774			14716								
		STD	0400	0364	3487	2774	0004008	0205	14718								
101		OBS	0491	0363	34869	2774			14732								
		STD	0500	0363	3487	2774	0004085	0245	14734								
101		OBS	0589	0360	34869	2774			14747								
		STD	0600	0360	3487	2775	0004132	0286	14749								
		STD	0700	0360	3487	2775	0004217	0328	14766								
101		OBS	0782	0359	34875	2775			14779								
		STD	0800	0359	3488	2775	0004216	0370	14782								
		STD	0900	0356	3488	2776	0004266	0412	14797								
101		OBS	T0966	0354	34892	2777			14808								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES TYPE AMT	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA							
311174	SC	5623 N	05117 W		186	61	10	05	189	1967	B28	004	3628	04	33	5	2		5	8		0004			
				WATER		WIND		BARO-METER (mba)		AIR TEMP. °C															
				COLOR CODE		TRANS. (m)		OIR.		SPEED OR FORCE		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
										29		S16		793		044		039		7		00			

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0	$\Sigma \Delta \sigma$ 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.
		STD	0000	0730	3457	2706	0010123	0000	14797								
189		OBS	0000	0730	34568	2706			14797								
		STD	0010	0731	3457	2706	0010137	0010	14798								
		STD	0020	0731	3457	2705	0010189	0020	14800								
		STD	0030	0732	3456	2705	0010228	0031	14802								
189		OBS	0033	0732	34564	2705			14803								
		STD	0050	0553	3467	2737	0007207	0048	14736								
189		OBS	0064	0446	34738	2755			14695								
		STD	0075	0440	3476	2757	0003306	0064	14694								
		STD	0100	0427	3460	2762	0004896	0076	14694								
		STD	0125	0417	3482	2765	0004667	0088	14694								
189		OBS	0129	0413	34826	2765			14694								
		STD	0150	0409	3463	2766	0004534	0100	14695								
189		OBS	0193	0396	34836	2768			14697								
		STD	0200	0394	3464	2768	0004383	0122	14697								
		STD	0250	0381	3484	2770	0004289	0144	14700								
189		OBS	T0258	0379	34837	2770			14700								
189		OBS	03210	0372	34858	2772											
189		OBS	03870	0366	34847	2772											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDEX	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311174		SC	5627 N	05102 W		186	61	10	08	110	1967	B28	005	3658	09	31	2	2		5	6	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				
		23	S10	003	017	011	7	12		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ 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 LOG
		STD	0000	0784	3459	2699	0010734	0000	14818								
	110	OBS	0000	0784	34586	2699			14818								
		STD	0010	0779	3459	2701	0010633	0011	14818								
		STD	0020	0775	3460	2702	0010533	0021	14818								
		STD	0030	0770	3461	2703	0010432	0032	14818								
	110	OBS	0049	0761	34620	2705			14817								
		STD	0050	0751	3462	2707	0010085	0052	14814								
		STD	0075	0534	3471	2742	0006749	0073	14733								
	110	OBS	0098	0410	34782	2762			14686								
		STD	0100	0408	3479	2763	0004775	0088	14686								
		STD	0125	0390	3482	2768	0004391	0099	14683								
	110	OBS	0146	0380	34835	2770			14682								
		STD	0150	0379	3484	2770	0004154	0110	14662								
	110	OBS	T0196	0374	34841	2771			14688								
		STD	0200	0374	3484	2771	0004142	0131	14688								
	110	OBS	0239	0372	34845	2771			14694								
		STD	0250	0370	3485	2772	0004079	0151	14695								
	110	OBS	0286	0365	34856	2773			14699								
		STD	0300	0365	3486	2773	0004020	0171	14701								
	110	OBS	T0374	0365	34860	2773			14714								
		STD	0400	0364	3486	2773	0004068	0212	14718								
	110	OBS	0465	0363													
		STD	0500	0362	3486	2774	0004112	0253	14733								
	110	OBS	T0550	0361	34866	2774			14741								
		STD	0600	0361	3487	2774	0004146	0294	14750								
		STD	0700	0362	3489	2776	0004088	0335	14767								
	110	OBS	0739	0362	34892	2776			14773								
		STD	0800	0362	3489	2776	0004146	0376	14784								
		STD	0900	0361	3490	2777	0004190	0418	14800								
	110	OBS	T0936	0360	34899	2777			14805								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDEX	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311174		SC	5632 N	05048 W		186	60	10	09	125	1967	B28	006	3658	10	22	0	2		8	6	0006

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	S02	297	094	067	8	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 $\mu\text{g} - \text{at/l}$	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 LOG
		STD	0000	0787	3459	2699	0010754	0000	14819								
	125	OBS	0000	0787	34589	2699			14819								
		STD	0010	0784	3459	2700	0010733	0011	14820								
		STD	0020	0782	3459	2700	0010720	0021	14820								
	125	OBS	0026	0780	34586	2700			14821								
		STD	0030	0726	3462	2710	0009733	0032	14801								
		STD	0050	0512	3474	2748	0006212	0048	14720								
	125	OBS	0052	0496	34748	2750			14714								
		STD	0075	0442	3479	2760	0005102	0062	14696								
		STD	0100	0402	3481	2765	0004564	0074	14683								
	125	OBS	0102	0400	34814	2766			14683								
		STD	0125	0391	3481	2767	0004484	0085	14683								
		STD	0150	0384	3480	2767	0004474	0096	14684								
	125	OBS	0155	0383	34803	2767			14684								
		STD	0200	0383	3485	2771	0004166	0118	14692								
	125	OBS	0208	0383	34851	2771			14694								
		STD	0250	0381	3486	2771	0004136	0139	14700								
	125	OBS	0259	0381	34860	2772			14701								
		STD	0300	0381	3487	2772	0004088	0159	14708								
	125	OBS	0311	0381	34877	2773			14710								
		STD	0400	0372	3488	2774	0004010	0200	14721								
	125	OBS	T0413	0371	34882	2774			14723								
		STD	0500	0368	3487	2774	0004128	0240	14736								
	125	OBS	0518	0367	34865	2773			14738								
		STD	0600	0366	3487	2774	0004199	0282	14752								
	125	OBS	0622	0366	34875	2774			14755								
		STD	0700	0367	3488	2775	0004222	0324	14769								
		STD	0800	0369	3489	2775	0004251	0367	14786								
	125	OBS	0831	0369	34893	2775			14792								
		STD	0900	0368	3489	2776	0004308	0409	14803								
		STD	1000	0363	3489	2776	0004335	0453	14817								
	125	OBS	T1038	0361	34893	2776			14823								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN 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		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311	174	SC	5630 N	05100 W	186	61	10	11	134	1967	B28	007	3658	12	29	0	2		5	6	0007	
WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE		DIR.		METER (mbs)		DRY BULB		WET BULB														
31		S10		227		044		039		7												

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -S $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	0706	3458	2710	0009700	0000	14787								
134		OBS	0000	0706	34582	2710			14787								
		STD	0010	0707	3458	2710	0009729	0010	14789								
		STD	0020	0708	3458	2710	0009759	0019	14791								
134		OBS	0020	0708	34582	2710			14791								
		STD	0030	0709	3458	2710	0009766	0029	14793								
134		OBS	0041	0709	34586	2710			14795								
		STD	0050	0622	3464	2726	0008265	0047	14763								
		STD	0075	0446	3475	2756	0005445	0064	14697								
134		OBS	0084	0406	34778	2763			14682								
		STD	0100	0392	3478	2764	0004725	0077	14679								
		STD	0125	0379	3477	2765	0004656	0089	14677								
134		OBS	0125	0379	34770	2765			14677								
		STD	0150	0381	3480	2767	0004477	0100	14683								
134		OBS	T0168	0383	34821	2768			14687								
		STD	0200	0374	3484	2771	0004149	0122	14688								
134		OBS	0209	0372	34848	2772			14689								
		STD	0250	0388	3485	2772	0004074	0142	14694								
134		OBS	0250	0368	34848	2772			14694								
		STD	0300	0365	3485	2772	0004073	0163	14701								
134		OBS	T0326	0364	34852	2773			14705								
		STD	0400	0366	3486	2773	0004102	0204	14718								
134		OBS	0409	0366	34860	2773			14720								
134		OBS	0487	0365	34864	2774			14732								
		STD	0500	0364	3487	2774	0004126	0245	14734								
		STD	0600	0361	3487	2774	0004143	0286	14750								
134		OBS	0644	0360	34872	2775			14756								
		STD	0700	0360	3488	2775	0004143	0328	14766								
134		OBS	T0798	0360	34888	2776			14782								
		STD	0800	0360	3489	2776	0004168	0369	14783								
		STD	0900	0359	3489	2776	0004226	0411	14799								
		STD	1000	0358	3489	2776	0004284	0454	14813								
		STD	1100	0355	3489	2777	0004316	0497	14831								
		STD	1200	0352	3490	2777	0004347	0540	14846								
134		OBS	T1211	0352	34896	2777			14848								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'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			OIL	HGT	PER				SEA
31	1174	SC	5630 N	05100 W		186	61	10	14	144	1967	620	008	3630	14	31	3	3		8	6	0008

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	OIL	SPEED OF FORCE		DRY BULB	WET BULB			
			31	S10	193	050	039	7	14

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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	3 CODE
		STD	0000	0699	3462	2714	0009354	0000	14785								
144		OBS	0000	0699	34616	2714			14785								
		STD	0010	0699	3462	2714	0009363	0009	14787								
		STD	0020	0698	3462	2714	0009373	0019	14788								
144		OBS	0020	0698	34616	2714			14788								
		STD	0030	0698	3462	2714	0009374	0028	14790								
144		OBS	0040	0698	34620	2714			14791								
		STD	0050	0609	3488	2731	0007805	0045	14758								
		STD	0075	0447	3479	2759	0005155	0061	14698								
144		OBS	0081	0422	34805	2763			14689								
		STD	0100	0401	3482	2766	0004478	0074	14683								
144		OBS	0122	0385	34829	2769			14680								
		STD	0125	0384	3483	2769	0004256	0084	14680								
		STD	0150	0380	3484	2770	0004164	0095	14683								
144		OBS	T0166	0377	34847	2771			14684								
		STD	0200	0370	3485	2772	0004049	0115	14687								
144		OBS	0209	0369	34848	2772			14688								
		STD	0250	0373	3486	2772	0004069	0136	14696								
144		OBS	0253	0373	34856	2772			14697								
		STD	0300	0369	3488	2773	0004039	0156	14703								
144		OBS	0343	0367	34864	2773			14709								
		STD	0400	0368	3487	2774	0004038	0196	14719								
144		OBS	0434	0368	34872	2774			14725								
		STD	0500	0369	3488	2774	0004064	0237	14730								
144		OBS	0527	0369	34884	2775			14741								
		STD	0600	0368	3488	2775	0004112	0278	14753								
		STD	0700	0366	3488	2775	0004182	0319	14769								
144		OBS	0714	0366	34884	2775			14771								
		STD	0800	0363	3489	2776	0004194	0361	14784								
		STD	0900	0359	3490	2777	0004184	0403	14799								
144		OBS	T0906	0359	34896	2777			14800								
		STD	1000	0359	3490	2777	0004231	0445	14816								
		STD	1100	0358	3491	2778	0004236	0487	14832								
		STD	1200	0358	3491	2778	0004314	0530	14849								
		STD	1300	0357	3491	2778	0004391	0574	14865								
144		OBS	T1395	0357	34915	2778			14881								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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
31	1174	SC	5630 N	05100 W		186	61	10	15	135	1967	B28	009	3056	24	32	2	5		6	8	0009

WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
	31	S10		207	050	039	7	16	

MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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	CTDP
		STD	0000	0700	3458	2711	0009645	0000	14785								
135		OBS	0000	0700	34579	2711			14785								
		STD	0010	0700	3459	2712	0009572	0010	14787								
		STD	0020	0699	3460	2713	0009508	0019	14788								
135		OBS	0024	0699	3460.3	2713			14789								
		STD	0030	0699	3460	2713	0009500	0029	14790								
135		OBS	0047	0697	34600	2713			14792								
		STD	0050	0673	3461	2717	0009137	0047	14783								
		STD	0075	0507	3472	2747	0006336	0067	14722								
135		OBS	0096	0420	34774	2761			14690								
		STD	0100	0416	3478	2762	0004932	0081	14689								
		STD	0125	0399	3481	2766	0004557	0093	14666								
135		OBS	0141	0392	34817	2767			14686								
		STD	0150	0392	3482	2767	0004335	0104	14688								
135		OBS	0186	0390	34821	2768			14693								
		STD	0200	0387	3483	2769	0004336	0126	14694								
135		OBS	0232	0380	34848	2771			14696								
		STD	0250	0375	3485	2771	0004152	0147	14697								
135		OBS	0278	0369	34844	2772			14699								
		STD	0300	0367	3484	2772	0004138	0168	14702								
135		OBS	T0372	0365	34844	2772			14713								
		STD	0400	0366	3485	2772	0004171	0209	14718								
135		OBS	0460	0367	34856	2773			14729								
		STD	0500	0367	3486	2773	0004229	0251	14735								
135		OBS	T0550	0368	34856	2773			14744								
		STD	0600	0368	3486	2773	0004293	0294	14752								
		STD	0700	0368	3487	2774	0004306	0337	14769								
135		OBS	0748	0367	34871	2774			14777								
		STD	0800	0365	3487	2774	0004329	0380	14785								
		STD	0900	0360	3488	2775	0004312	0423	14799								
135		OBS	T0943	0359	34883	2776			14806								
		STD	1000	0359	3488	2776	0004354	0467	14816								
		STD	1100	0358	3489	2776	0004411	0510	14832								
		STD	1200	0357	3489	2776	0004466	0555	14848								
		STD	1300	0356	3489	2777	0004513	0600	14865								
		STD	1400	0355	3489	2777	0004567	0645	14881								
135		OBS	T1461	0354	34894	2777			14891								
		STD	1500	0354	3490	2778	0004576	0691	14897								
		STD	1750	0350	3491	2779	0004655	0806	14938								
156		OBS	T1972	0347	34922	2780			14975								
		STD	2000	0346	3492	2780	0004704	0923	14979								
156		OBS	T2438	0313	34930	2784			15040								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'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	
31	1174	SC	5628 N	05058 W	186	60	10	16	104	1967	528	010	365d	10	33	1	3		5	7		0010	

WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		26	S10	180	050	039	7	13	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C
		STD	0000	0704	3451	2705	0010195	0000	14786								
104		OBS	0000	0704	34512	2705			14786								
		STD	0010	0703	3453	2707	0010084	0010	14787								
		STD	0020	0702	3455	2708	0009917	0020	14789								
104		OBS	0028	0701	34558	2709			14789								
		STD	0030	0701	3456	2709	0009839	0030	14790								
		STD	0050	0698	3458	2711	0009711	0050	14792								
104		OBS	0050	0698	34577	2711			14792								
		STD	0075	0517	3471	2745	0006524	0070	14726								
		STD	0100	0405	3478	2763	0004819	0084	14684								
104		OBS	0101	0402	34784	2763			14683								
		STD	0125	0397	3478	2764	0004759	0096	14685								
		STD	0150	0391	3478	2764	0004727	0108	14687								
104		OBS	0151	0391	34779	2764			14687								
		STD	0200	0380	3481	2767	0004460	0131	14690								
104		OBS	0202	0379	34807	2768			14690								
		STD	0250	0376	3483	2770	0004313	0153	14697								
104		OBS	0254	0375													
		STD	0300	0367	3485	2772	0004105	0174	14702								
104		OBS	0304	0366	34850	2772			14702								
		STD	0400	0370	3485	2772	0004211	0215	14720								
104		OBS	T0406	0370	34850	2772			14721								
		STD	0500	0363	3486	2773	0004170	0257	14733								
104		OBS	0508	0362	34858	2773			14735								
		STD	0600	0361	3488	2775	0004069	0298	14750								
104		OBS	0611	0361	34882	2775			14752								
		STD	0700	0360	3488	2776	0004117	0339	14766								
		STD	0800	0358	3488	2776	0004179	0381	14782								
104		OBS	0817	0358													
		STD	0900	0357	3489	2778	0004240	0423	14798								
		STD	1000	0355	3489	2776	0004293	0466	14814								
104		OBS	T1024	0355	34886	2776			14818								

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
CTR CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIL	HGT	PER		SEA	TYPE	
311174	SC	5632 N	05057 W	186	60	10	17	098	1967	028	011	3658	17	22	2	2	5	7	0011			

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS- MIT	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
		18	S11	108	072	061	7	14	

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\frac{\Delta \sigma_t}{\Delta D}$ 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 $\mu\text{g} \cdot \text{at/l}$	SI O ₄ -S $\mu\text{g} \cdot \text{at/l}$	pH	S C C
		STD	0000	0683	3461	2715	0009212	0000	14779								
098		OBS	0000	0683	34607	2715			14779								
		STD	0010	0689	3461	2715	0009277	0009	14783								
		STD	0020	0694	3461	2714	0009363	0019	14786								
098		OBS	0022	0695	34614	2714			14787								
		STD	0030	0694	3462	2715	0009316	0028	14788								
098		OBS	0045	0691	34626	2716			14789								
		STD	0050	0650	3465	2723	0008543	0046	14774								
		STD	0075	0487	3474	2751	0005963	0064	14714								
		STD	0100	0391	3480	2766	0004528	0077	14679								
098		OBS	0102	0386	34803	2767			14677								
		STD	0125	0383	3481	2767	0004396	0088	14679								
098		OBS	0142	0380	34815	2768			14681								
		STD	0150	0378	3482	2768	0004331	0099	14682								
098		OBS	T0184	0372	34815	2769			14685								
		STD	0200	0370	3482	2769	0004297	0121	14686								
098		OBS	0238	0366	34815	2770			14691								
		STD	0250	0364	3482	2770	0004243	0142	14692								
098		OBS	0288	0359	34823	2771			14696								
		STD	0300	0359	3483	2771	0004201	0163	14698								
		STD	0400	0361	3484	2772	0004185	0205	14716								
098		OBS	0408	0361	34842	2772			14717								
		STD	0500	0360	3486	2773	0004151	0247	14732								
098		OBS	0513	0360	34858	2774			14735								
		STD	0600	0355	3486	2774	0004151	0288	14747								
098		OBS	T0615	0354	34862	2774			14749								
		STD	0700	0356	3486	2774	0004243	0330	14764								
098		OBS	0719	0356													
		STD	0800	0356	3485	2773	0004403	0373	14780								
		STD	0900	0356	3485	2773	0004482	0418	14797								
		STD	1000	0355	3485	2773	0004561	0463	14813								
098		OBS	T1070	0355	34846	2773			14825								
		STD	1100	0355	3485	2773	0004641	0509	14830								
		STD	1200	0355	3485	2773	0004722	0556	14847								
		STD	1300	0354	3486	2774	0004716	0603	14863								
		STD	1400	0354	3487	2775	0004723	0650	14880								
		STD	1500	0354	3488	2776	0004729	0698	14897								
098		OBS	T1652	0353	34897	2777			14923								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	MAGNETIC CORRECTION	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311174	SC	5627 N	05102 W	186	61	10	18	189	1967	828	012	3658	15	24	2	3	8	6	0012		

WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		27	507	152	072	039	7	14	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	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	SEC
		STD	0000	0723	3458	2708	0009949	0000	14794								
189		OBS	0000	0723	34579	2708			14794								
		STD	0010	0721	3458	2708	0009935	0010	14795								
		STD	0020	0720	3458	2708	0009930	0020	14796								
189		OBS	0024	0719	34583	2708			14796								
		STD	0030	0712	3459	2710	0009768	0030	14795								
189		OBS	0049	0666	34622	2719			14780								
		STD	0050	0658	3463	2721	0008794	0048	14777								
		STD	0075	0487	3474	2751	0005963	0067	14714								
189		OBS	0098	0389	34799	2766			14677								
		STD	0100	0388	3480	2766	0004498	0080	14677								
		STD	0125	0379	3481	2768	0004356	0091	14678								
189		OBS	0148	0374	34815	2769			14680								
		STD	0150	0374	3482	2769	0004254	0102	14680								
189		OBS	0199	0371	34842	2771			14687								
		STD	0200	0371	3484	2771	0004104	0123	14687								
189		OBS	0249	0365	34852	2773			14693								
		STD	0250	0365	3485	2772	0004029	0143	14693								
		STD	0300	0361	3485	2773	0004062	0163	14700								
189		OBS	0300	0361	34846	2773			14700								
		STD	0400	0362	3485	2773	0004130	0204	14717								
189		OBS	T0402	0362	34854	2773			14717								
		STD	0500	0361	3486	2774	0004109	0245	14733								
189		OBS	0500	0361	34863	2774			14733								
		STD	0600	0363	3488	2775	0004093	0286	14751								
189		OBS	T0675	0365	34887	2775			14764								
		STD	0700	0364	3489	2775	0004135	0327	14768								
		STD	0800	0360	3489	2776	0004184	0369	14783								
189		OBS	0802	0360	34886	2776			14783								
		STD	0900	0358	3489	2776	0004232	0411	14799								
		STD	1000	0356	3489	2776	0004278	0454	14814								
189		OBS	T1013	0356	34890	2777			14816								
		STD	1100	0355	3489	2777	0004331	0497	14831								
		STD	1200	0354	3489	2777	0004385	0540	14847								
		STD	1300	0353	3490	2777	0004432	0584	14863								
		STD	1400	0353	3490	2778	0004497	0629	14880								
		STD	1500	0353	3490	2778	0004555	0674	14897								
189		OBS	T1512	0353	34902	2778			14899								

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	NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIP			
311	174	SC	0630 N	05100 W	186	01	10	19	110	1967	B2B	013	3658	15	23	0	4	516	0013

WATER		WIND		BARO- METER (mbst)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		19	S06	217	072	056	7	14	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$	$\Sigma \Delta D$ 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
		STO	0000	0659	3455	2714	0009344	0000	14766								
110		OBS	0000	0659	34548	2714			14768								
		STO	0010	0659	3455	2714	0009321	0009	14770								
		STO	0020	0656	3456	2715	0009261	0019	14771								
110		OBS	0024	0655	34560	2715			14771								
		STO	0030	0651	3456	2716	0009170	0028	14770								
110		OBS	0049	0639	34578	2719			14769								
		STO	0050	0633	3459	2721	0008776	0046	14767								
		STO	0075	0502	3478	2752	0005831	0064	14720								
110		OBS	0097	0431	34890	2769			14696								
		STO	0100	0430	3489	2769	0004252	0077	14696								
		STD	0125	0425	3489	2769	0004214	0087	14698								
110		OBS	0147	0420	34891	2770			14700								
		STO	0150	0419	3469	2770	0004174	0098	14700								
110		OBS	0197	0404	34906	2773			14701								
		STO	0200	0402	3490	2773	0003966	0118	14701								
110		OBS	0246	0384	34870	2772			14701								
		STO	0250	0384	3487	2772	0004065	0138	14701								
110		OBS	0296	0379	34887	2774			14707								
		STO	0300	0379	3489	2774	0003940	0158	14708								
110		OBS	T0396	0366	34882	2775			14719								
		STO	0400	0366	3488	2775	0003966	0196	14719								
110		OBS	0493	0359	34862	2774			14731								
		STO	0500	0359	3486	2774	0004087	0238	14732								
		STO	0600	0357	3487	2775	0004069	0279	14746								
110		OBS	T0669	0356	34882	2776			14759								
		STO	0700	0356	3488	2776	0004087	0320	14764								
110		OBS	0789	0357	34882	2776			14779								
		STO	0800	0357	3488	2776	0004179	0361	14781								
		STO	0900	0355	3488	2776	0004240	0403	14797								
110		OBS	T0984	0354	34882	2776			14811								
		STO	1000	0354	3488	2776	0004312	0446	14813								
		STO	1100	0355	3488	2776	0004401	0489	14830								
		STO	1200	0355	3488	2776	0004490	0534	14847								
		STO	1300	0356	3488	2776	0004578	0579	14864								
		STO	1400	0357	3488	2776	0004666	0625	14882								
110		OBS	T1486	0357	34882	2776			14896								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN INDECI	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	
311	174	SC	5630 N	05055 W	186	00	10	20	106	1967	828	014	3038	11	18	3	4	06	5	7	0014		

WATER		WIND		BARO- METER (mbst)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (%)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		13	Sl6	044	094	089	4	14	

MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C C
		STD	0000	0708	3458	2710	0009726	0000	14788								
106		OBS	0000	0708	34582	2710			14788								
		STD	0010	0708	3458	2710	0009757	0010	14790								
106		OBS	0018	0707	34578	2710			14791								
		STD	0020	0706	3458	2710	0009750	0019	14791								
		STD	0030	0702	3458	2711	0009712	0029	14791								
106		OBS	0038	0699	34590	2712			14791								
		STD	0050	0566	3468	2736	0007286	0046	14741								
106		OBS	0072	0407	34774	2762			14680								
		STD	0075	0405	3477	2762	0004640	0061	14680								
		STD	0100	0389	3477	2764	0004725	0073	14677								
106		OBS	0108	0386	34770	2764			14677								
		STD	0125	0385	3479	2766	0004566	0085	14680								
106		OBS	0146	0382	34817	2768			14683								
		STD	0150	0381	3482	2768	0004324	0096	14683								
106		OBS	0181	0375	34851	2772			14688								
		STD	0200	0370	3483	2770	0004184	0117	14687								
106		OBS	0216	0367	34825	2770			14688								
		STD	0250	0366	3464	2772	0004114	0138	14693								
106		OBS	T0291	0365	34848	2772			14700								
		STD	0300	0365	3485	2772	0004073	0159	14701								
106		OBS	0349	0363	34857	2773			14709								
		STD	0400	0363	3485	2773	0004140	0200	14717								
106		OBS	T0415	0363	34848	2772			14719								
		STD	0500	0362	3486	2774	0004142	0241	14733								
106		OBS	0554	0361	34868	2774			14742								
		STD	0600	0360	3487	2775	0004132	0282	14749								
106		OBS	T0697	0358	34872	2775			14764								
		STD	0700	0358	3487	2775	0004180	0324	14765								
		STD	0800	0358	3488	2775	0004235	0366	14762								
		STD	0900	0358	3488	2776	0004289	0409	14798								
		STD	1000	0358	3488	2776	0004343	0452	14815								
		STD	1100	0358	3489	2776	0004396	0495	14832								
106		OBS	T1110	0358	34888	2776			14834								

532 AA

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