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OCEANOGRAPHY OF THE GRAND BANKS REGION
AND THE LABRADOR SEA

April-June and October 1968

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OCEANOGRAPHY OF THE GRAND BANKS REGION AND THE LABRADOR SEA

April-June and October 1968

Henry S. Andersen

Martin J. Moynihan

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ABSTRACT

In 1968, three cruises in operational support of the International Ice Patrol were conducted in April, May, and June off the Grand Banks of Newfoundland by the USCGC EVERGREEN. In addition, a section was occupied across the Labrador Sea from South Wolf Island, Labrador to Cape Farewell, Greenland by the USCGC EASTWIND in October 1968. The data obtained were used to draw temperature and salinity profiles, and to calculate surface dynamic topography and geostrophic velocity through the sections. Dynamic calculations were based on a reference level of 1000 decibars for the cruises in operational support of the International Ice Patrol and 1500 decibars for the Labrador Sea occupation. Contoured sections and the station data are presented. A sharp increase observed in the transport of the Labrador Current through Section A3 on the eastern slope of the Grand Banks is related to an initial decrease in density of the water column below 200 meters. Volume, salt, and heat transports through the Labrador Sea section are presented.

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TABLE OF CONTENTS

	Page
Title Page	i
Abstract	iii
Table of Contents	v
List of Illustrations	v
Introduction	1
Data Acquisition and Treatment	2
Standard Section Surveys on the Grand Banks	3
Time Variation of the Labrador Current	3
Labrador Sea Section	6
References	7
Illustrations	8
Appendix A—Oceanographic Data	53
Table I. USCGC EVERGREEN April–June 1968	54
Table II. USCGC EASTWIND, October 1968	297

List of Illustrations

Figure	Page
1. Normal dynamic topography of sea surface relative to 1000 decibars for April (Soule, 1964)	8
2. Normal dynamic topography of sea surface relative to 1000 decibars for May (Soule, 1964)	9
3. Normal dynamic topography of sea surface relative to 1000 decibars for June (Soule, 1964)	10
4. Sea-surface dynamic topography relative to 1000 decibars, 2–10 April 1968	11
5. Sea-surface dynamic topography relative to 1000 decibars, 12–15 April 1968	12
6. Sea-surface dynamic topography relative to 1000 decibars, 16–24 April 1968	13
7. Sea-surface dynamic topography relative to 1000 decibars, 14–21 May 1968	14
8. Sea-surface dynamic topography relative to 1000 decibars, 23–25 May 1968	15
9. Sea-surface dynamic topography relative to 1000 decibars, 30 May–1 June 1968	16
10. Sea-surface dynamic topography relative to 1000 decibars, 18–23 June 1968	17
11. Sea-surface dynamic topography relative to 1000 decibars, 24–27 June 1968	18

Figure	Page
12. Temperature, salinity and current velocity profiles for Section A2, 2-3 April 1968	19
13. Temperature, salinity and current velocity profiles for Section A3, 4-6 April 1968	20
14. Temperature, salinity and current velocity profiles for Section A4, 8 April 1968	21
15. Temperature, salinity and current velocity profiles for Section A2, 12-13 April 1968	22
16. Temperature, salinity and current velocity profiles for Section A3, 13-14 April 1968	23
17. Temperature and salinity profiles for Section A4, 14-15 April 1968	24
18. Temperature, salinity and current velocity profiles for Section A2, 16-17 April 1968	25
19. Temperature, salinity and current velocity profiles for Section A3, 21 April 1968	26
20. Temperature, salinity and current velocity profiles for Section A4, 24 April 1968	27
21. Temperature, salinity and current velocity profiles for Section A2, 14-18 May 1968	28
22. Temperature, salinity and current velocity profiles for Section A3, 18-19 May 1968	29
23. Temperature, salinity and current velocity profiles for Section A4, 20-21 May 1968	30
24. Temperature, salinity and current velocity profiles for Section A2, 23-24 May 1968	31
25. Temperature, salinity and current velocity profiles for Section A3, 24-25 May 1968	32
26. Temperature, salinity and current velocity profiles for Section A2, 30 May 1968	33
27. Temperature, salinity and current velocity profiles for Section A3, 31 May-1 June 1968	34
28. Temperature, salinity and current velocity profiles for Section A2, 18-19 June 1968	35
29. Temperature, salinity and current velocity profiles for Section A3, 20 June 1968	36
30. Temperature and salinity profiles for Section A4, 21 June 1968	37
31. Temperature, salinity and current velocity profiles for Section A2, 24-25 June 1968	38
32. Temperature, salinity and current velocity profiles for Section A3, 25-26 June 1968	39
33. Temperature, salinity and current velocity profiles for Section A4, 26-27 June 1968	40
34. Profiles of dynamic topography relative to 1000 decibars for occupations of Section A3 during 4-6, 13-14 and 21 April 1968	41
35. Profiles of dynamic topography relative to 1000 decibars for occupations of Section A3 during 18-19, 24-25 May and 31 May-1 June 1968	42
36. Profiles of dynamic topography relative to 1000 decibars for occupations of Section A3 during 20 June and 25-26 June 1968	43
37. Variation with time of the surface dynamic heights at the eastern slope of the Grand Banks along Section A3 during the 1968 Ice Patrol	44

Figure	Page
38. Temperature-salinity diagram for trough stations and stations immediately west of the trough along Section A3	45
39. Plot of dynamic height anomaly versus depth relative to 1000 decibars .	46
40. Temperature-salinity diagram for stations 190 and 224, 18 May and 24 May 1968 respectively	47
41. Temperature-salinity diagram for stations 271 and 315, 20 June and 26 June 1968 respectively	48
42. Temperature-salinity diagram for stations 224 and 271, 24 May and 20 June 1968 respectively	49
43. Variation in volume transport of the Labrador Current along Sections A2 and A3 during the 1968 Ice Patrol	50
44. Temperature profile from South Wolf Island, Labrador to Cape Farewell, Greenland during 24-26 October 1968	51
45. Salinity profile from South Wolf Island, Labrador to Cape Farewell, Greenland during 24-26 October 1968	52

Oceanography of the Grand Banks Region and the Labrador Sea

April-June and October 1968

HENRY S. ANDERSEN¹ and MARTIN J. MOYNIHAN¹

INTRODUCTION

This description of the physical oceanography of the Grand Banks Region and the Labrador Sea for 1968 is based on three International Ice Patrol cruises to the Grand Banks of Newfoundland from April through June, and an occupation of a section from South Wolf Island, Labrador to Cape Farewell, Greenland in late October.

The oceanographic cruises in support of the International Ice Patrol during the spring of 1968 were conducted by USCGC EVERGREEN (WAGO 295), Commander Arthur J. Solvang, USCG, Commanding. These cruises followed the practice of the two preceding years in that surveys were conducted along three standard monitoring sections for the purpose of calibrating Soule's (1964) normal dynamic topography charts. The sections were occupied in rapid sequence during three cruises to furnish real-time analysis of the marine environment to Commander, International Ice Patrol for the prediction of iceberg movements in the Grand Banks region. Additional stations were occupied in the area southeast of the Grand Banks to locate and describe the semipermanent meander of the North Atlantic Current, which has a significant effect on the strength and location of the Labrador Current.

The first cruise left Boston, Mass., on 29 March 1968 and returned on 27 April. Three surveys of Standard Sections A2, A3 and A4, consisting of Ice Patrol stations 10041 through 10147 (for convenience, the first two digits of the station numbers are not used in the accompanying figures), were completed between 2 and 24 April 1968. During the period 17-20 April, the USCGC EVERGREEN visited Saint John's, Newfoundland.

On the second cruise, which lasted from 7 May to 4 June 1968, the USCGC EVERGREEN occupied stations 10148 through 10254, com-

pleting three occupations of Standard Sections A2 and A3 and a single occupation of Section A4. This cruise was marked by severe weather and sea conditions which forced the ship to heave-to for a total of 91 hours. It was necessary to put into Argentia, Newfoundland on 27 May 1968 to replenish the fresh water supply and avoid the heavy weather.

During the second cruise, on 11 May 1968, an oceanographic buoy system was established in the Labrador Current in 500 fathoms of water east of the Grand Banks at 45°02.5'N, 48°53'W. A current meter and temperature recorder were attached to a tautline moor from a subsurface buoy. A depth-positioning device was incorporated into the system to position the recording instruments at a depth of approximately 75 meters. The mooring system consisted of one-quarter inch "Al-u-flex" cable attached with anchor chain to a 6000 pound concrete sinker. Two mechanical time releases were connected in parallel and set to release the subsurface buoy on 24 June 1968. The location of the system was marked by a toroidal surface buoy connected to the subsurface buoy by a 500-foot pendant of 3/4" nylon line. Both buoys were equipped with lights.

After the buoy system had been moored for about one hour, the subsurface buoy surfaced unexpectedly. During the next 35 hours, the positions of the buoys were monitored and a series of 26 oceanographic casts (stations 10148 through 10173) were made adjacent to them. The surveillance of the buoys indicated they were still on station, leading to the conclusion that a malfunction of the depth-positioning device was the most probable cause of the surfacing of the subsurface buoy. The buoy system

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was left on station in an attempt to obtain useful data on the near-surface conditions, but it was never recovered because it apparently was carried away in one of the severe gales that crossed the Grand Banks during May 1968. The surface buoy washed ashore near Skull, Ireland in early January 1969. Station data acquired during the monitoring of the buoy system are presented in the Tables of Oceanographic Data (Appendix A); no analysis is presented at this time.

A third cruise was scheduled due to the prolonged iceberg threat on the Grand Banks. It included two surveys of Standard Sections A2, A3, and A4 consisting of stations 10255 through 10324, conducted between 18 June and 27 June 1968.

During a Naval Oceanographic Office ice forecast survey (24–26 October 1968) on the USCGC EASTWIND (WAGB 279), 15 stations were occupied on the Ice Patrol transect across the Labrador Sea from South Wolf Island, Labrador to Cape Farewell, Greenland.

DATA ACQUISITION AND TREATMENT

The primary sampling instrument for the 1968 Ice Patrol cruises was a Bissett-Berman Model 9006N Salinity-Temperature-Depth (STD) sensor system. The STD data were quality controlled by comparison with Nansen bottle samples obtained just above the STD sensor at the bottom of selected deep casts. Because quality control samples were obtained on only 29 stations, averaged corrections were applied to groups of STD casts where the differences between the STD data and the associated quality control samples exceeded the manufacturer's stated accuracy for the STD system ($\pm 0.02^\circ\text{C}$; $\pm 0.03^\circ/\text{‰}$). The quality control program was severely hampered by weather and sea conditions that jeopardized the STD sensor when attempts were made to attach the sampling bottle on the cable above it.

Data processing was accomplished at sea during the spring Ice Patrol with a PDP-8/S computer. Dynamic heights relative to 1000 decibars and corrections of the quality-control temperatures were computed utilizing programs described by O'Hagan (1964). Anomalies of dynamic height in water shallower than the reference level were computed in a manner similar to that described by Helland-Hansen

(1934); the method is described in detail by Kollmeyer (1967). Current velocities at selected levels between adjacent oceanographic stations were computed using the geostrophic equation. Volume transports were computed through the solenoids formed by the intersection of the selected levels and the oceanographic casts (method described in detail by Kollmeyer, 1967).

The temperature and salinity data acquired during the October occupation of the section between South Wolf Island, Labrador and Cape Farewell, Greenland were obtained by Nansen bottle casts and processed later at the Coast Guard Oceanographic Unit in Washington, D.C., with a PDP-5 computer. The treatment of the data was similar to that accorded the three cruises in operational support of the Ice Patrol, except that dynamic heights were computed relative to 1500 decibars, and salt and heat transport were computed in addition to volume transports. The methods used to compute salt and heat transports are described in detail by Kollmeyer (1967).

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer listings from the National Oceanographic Data Center (Cruise Nos. 31–8039 and 31–1353). Anomalies of dynamic height in the listings were computed by NODC, but all discussion of dynamic heights in the text and related computations in this report are based on dynamic heights computed by the Oceanographic Unit.

The oceanographic work of the first Ice Patrol cruise was directed by Lt. James M. Seabrooke, USCG, who was assisted by Lt. Charles W. Morgan, USCG. Lieutenant Morgan directed the second and third cruises assisted by Ens. Henry S. Andersen, USCGR, and Mr. Joseph Shuhy, Oceanographer. Technical assistants for the Ice Patrol season were Sonarman First Class William T. O'Brien, Aerographer's Mate First Class Peter R. San Jule, Aerographer's Mate First Class William E. Heller, Aerographer's Mate Third Class Michael L. Combs, Aerographer's Mate Third Class Rex Allen C. Doescher, Sonarman Third Class Kenneth L. Mitchell, Aerographer's Mate Third Class Marshall R. Patmos, Aerographer's Mate Third Class Kenneth D. Thoeni, and Sonarman Third Class Calvin C. Wood.

STANDARD SECTION SURVEYS ON THE GRAND BANKS

The general surface circulation south and east of the Grand Banks of Newfoundland during the spring can be inferred from the monthly average dynamic topography of the sea surface relative to the 1000-decibar surface during the months of April, May, and June (figs. 1, 2, and 3; Soule, 1964). These charts are based on 22 years of data with equal weight being given to each year represented. Broken-line contours have been used in areas where the data base is 6 years or less. The charts show the Labrador Current as a southward flow positioned between the 100-fathom and 1000-fathom contours on the eastern slope of the Grand Banks. To the east of the Labrador Current is a dynamic trough region of water of low specific volume resulting from the mixing of Labrador Current water and North Atlantic Current water. The dynamic trough is a region of current reversal, with the Labrador Current flowing south on the western side of the trough and the North Atlantic Current flowing north on the eastern side of the trough. Along the southern and southeastern edges of the contoured region, an intrusion of the North Atlantic Current is evidenced by a pair of meanders at about 41°N 50°W and 43°N 46°W .

During the 1968 Ice Patrol season, the practice of serially reoccupying three standard sections (figs. 4–11) rather than conducting a broad areal survey was continued. This practice was instituted in 1966 (Wolford, 1969) because experience had shown that large, short-term (1–2 weeks) fluctuations occurred in the volume flow of the Labrador Current, and therefore broad areal surveys covering a time span comparable to the period of the short-term fluctuations would not be sufficiently synoptic. It was hoped that rapid occupations of the three standard sections would provide synoptic information which would be adequate, when used with the average monthly surface dynamic topographies, to draw conclusions about the circulation in the Grand Banks region. While the rapid occupation of three standard sections improved synopticity, the increased distance between sections inherent in this method made contouring the dynamic topography more uncertain. Accordingly, the charts of dynamic topography (figs. 4–11) have been contoured between standard sections only when additional

stations were occupied between sections A3 and A4 (three times during the season) to obtain better definition of a meander in the North Atlantic Current.

During the first survey of the season, the meander of the North Atlantic Current was farther to the northwest than usual. This was readily apparent from comparison of the position of the 971.1 dynamic-meter contour as observed during the 2–10 April survey (fig. 4) with the position of this contour on the April normal dynamic topography chart (fig. 1). Additional evidence of this excursion of the meander to the northwest exists in the high dynamic heights found immediately east of the trough during the first occupation of A3 (fig. 34) and the incursion of water warmer than 12°C and saltier than 35.5‰ which extended westward in the upper 200 meters to about $48^{\circ}30'\text{W}$ (fig. 13). During the month of April, the meander, moved seaward from the Grand Banks to a more offshore position where it remained the rest of the Ice Patrol season.

In April a portion of the Labrador Current (temperature $<0^{\circ}\text{C}$) was observed to flow westward around the Tail-of-the-Banks during every occupation of A4 (figs. 14, 17, and 20). No flow of Labrador Current Water around the Tail-of-the-Banks was detected during the remainder of the Ice Patrol season (May–June).

During four of the occupations of A3 (figs. 13, 16, 19, 27), horizontal gradients of temperature sufficiently strong to be considered frontal were observed at or near the sea surface. Whenever such strong horizontal temperature gradients were encountered, the lowest value in dynamic height was associated with the station nearest the front on the cold side. (figs. 34 and 35).

TIME-VARIATION OF THE LABRADOR CURRENT

The time-variation of the Labrador Current has been a subject of considerable interest to the International Ice Patrol because this current is the chief agency for transporting icebergs to the Grand Banks. Because most of the oceanographic survey effort of the Ice Patrol has been expended on the eastern slopes of the Grand Banks during April through June, the months when the Iceberg hazard on the Grand Banks is greatest, the annual cycle of the

Labrador Current is poorly defined. The seasonal characteristics of the Labrador Current are further obscured by its interaction with the North Atlantic Current and with the region's bathymetry.

With these difficulties in mind, the data acquired during the 1968 Ice Patrol were examined for time-variation in the flow of the Labrador Current. For the purposes of this report, the Labrador Current is defined to be the total southward flow through the east-west leg of Section A2, the total southward flow west of the dynamic trough through Section A3, and the total westward flow north of the North Atlantic Current through Section A4 (fig. 4). Particular attention was focused on Section A3 because this section transects the Labrador Current, the dynamic trough east of the Labrador Current, and the North Atlantic Current. In addition, the oceanographic conditions along this section give an indication of the probability of icebergs reaching the shipping lanes near the Tail-of-the-Banks.

To determine whether variation in the Labrador Current during the 1968 season was due primarily to changes in dynamic height on the Grand Banks, changes in the dynamic height in the trough between the Labrador Current and the North Atlantic Current, or a combination of these factors, profiles of sea-surface dynamic height along Section A3 (figs. 34–36) were plotted. In addition, dynamic heights were plotted versus time for the station at the eastern extremity of the steep gradient of dynamic height above the slope of the Grand Banks (the trough station), the next station immediately to the west (the adjacent station), and the westernmost station occupied during each transit of A3 (fig. 37). It was recognized that relative distances between these stations varied from one occupation of Section A3 to the next, but this spatial variation was not sufficient to bias the observed trend of dynamic heights.

Variation in the transport of the Labrador Current during the 1968 Ice Patrol season was due to changes in the dynamic heights of both the trough station and the adjacent station. The great increase in transport observed beginning 24–25 May and the sudden decrease in transport observed during 25–26 June (fig. 43) were due primarily to larger changes in dy-

namic height at the adjacent station than at the trough station.

During April both the trough station and the adjacent station underwent an increase in surface dynamic height that caused only a slight change in the gradient of surface dynamic height between the two stations, but in May, the relative difference in dynamic height between the two stations increased sharply. The survey of A3 during 18–19 May disclosed a minimum surface dynamic height for both the trough station and the adjacent station. By the 24–25 May occupation of A3, the surface dynamic height of the adjacent station had increased dramatically, and the greatest difference, during the season, in dynamic height between the trough station and the adjacent station was encountered. The surface dynamic height of the adjacent station then remained at about the same level while the surface dynamic height of the trough station showed a gradual increase through the 20 June occupation of A3, after which the dynamic heights of both stations fell precipitously to the lowest observed levels of the season (25–26 June occupation of A3).

Level for level, the trough stations possessed water slightly warmer and slightly saltier (fig. 38) than the stations west of them. The dynamic heights of the trough stations and the adjacent stations were observed to diverge from the reference level (1000 meters) to the sea surface (fig. 39), with the divergence being especially large from 24 May until 20 June (stations 224 and 225, 247 and 248, and 271 and 272). The rate of divergence shows a significant increase between 300 meters and the surface which is attributed to the presence of Labrador Current Water west of the dynamic trough. Below 300 meters the more gradual divergence of the dynamic heights of the trough stations and the adjacent stations is an indication of the effective mixing of Labrador Current Water and North Atlantic Current Water occurring on the eastern slopes of the Grand Banks. This is not unexpected in view of the great horizontal and vertical shears in current velocity observed in this region.

To determine whether the Labrador Current in the Grand Banks area has the characteristics of a spring freshet, variation along section A3 of temperature-salinity characteristics and cross-stream dynamic height were

compared. In exploring the concept of a freshet, attention must be given not only to the possibility of water from melting snow and ice being a component of the Labrador Current transport, but also to the possible accelerating effect of meltwater accumulated along the Labrador and Newfoundland coasts.

That meltwater from snow and ice along the Labrador and Newfoundland coasts is a significant component of the total transport of the Labrador Current appears unlikely. The strongly negative temperatures and substantial volume of the cold current observed on the eastern slopes of the Grand Banks testify to a high-latitude origin, and the greater velocities in the Labrador Current actually occur to the east of the cold core in waters that are warmer and more saline.

Remaining to be examined is the possibility of accumulated meltwater along the Labrador and Newfoundland coasts providing a horizontal pressure gradient sufficient to accelerate the Labrador Current. This hypothesis has been treated favorably by previous investigators of this region. Kollmeyer et al. (1966) stated that an increase in dynamic height on the Grand Banks "could be caused by the influx of arctic and sub-arctic melt water [sic] from the north" and that "the increase in elevation of water on the Banks and slope, with a resulting water volume flow increase, causes entrainment of the existing water in the area. This slope water would then become colder with the arrival from the north of greater volumes of cold water to fulfill the mass continuity requirements being satisfied by entrainment."

Along Section A3 west of the trough, the dramatic increase in surface dynamic height between the surveys of 18 and 24–25 May 1968 and its abrupt decline between the surveys of 20 and 26 June 1968 were compared with variation in the temperature-salinity characteristics of the adjacent station. These comparisons indicated that during 1968 the greatest variation in the volume flow of the Labrador Current was accompanied by variation in salinity below 200 meters at the adjacent station. The increase in dynamic height between the 18 May and 24 May occupations of the adjacent stations (stations 190 and 224) occurred even though the water in the depth interval of 0 to 200 meters was denser during

the 24 May occupation (fig. 40) as a result of an increase in salinity. Thus, during the 1968 Ice Patrol season, the greatest difference in dynamic height between the trough station and the station immediately west of the trough occurred while the waters of the upper 200 meters of the adjacent station were becoming more saline—hardly conditions to be associated with an influx of meltwater in the surface layers of the Grand Banks. Instead, an influx of fresher, warmer, and less dense water below 200 meters was responsible for the increase in dynamic height.

The abrupt decrease in the dynamic height of the station immediately west of the trough between the 20 June (station 271) and 26 June (station 315) occupations was due to the presence of denser water at station 315 at all levels (fig. 41). Except at the sea surface, this increase in density was caused by an increase in salinity. The surface salinity at station 271 differs only slightly (0.08‰) from the salinity of colder water (-1.04°C) at 30 meters, suggesting that the surface water may be water of nearly the same origin as the relatively fresh, negative temperature water between 20 and 90 meters.

A plot of the volume transport of the cold core ($<2^{\circ}\text{C}$, $<34\text{‰}$) of the Labrador Current and of the total Labrador Current for Section A3 and the east-west leg of Section A2 (fig. 43) indicates that the fluctuations in transport on both sections are in good agreement. Because the magnitude of the fluctuations in the total transport of the Labrador Current exceeds the magnitude of the fluctuations in the cold-core transport, variation in the total flow of the Labrador Current along the eastern slope of the Grand Banks does not appear to be due solely to variation in the advection of water from more northern latitudes.

The causes of the sudden increase in the total transport of the Labrador Current in May and its abrupt decrease in late June may now be speculated upon. During May an influx of fresher, warmer water below 200 meters at station 224 was responsible for a sharp increase (fig. 37) in the gradient of dynamic height between the trough station and the adjacent station, deepening the Labrador Current and increasing the transport of the cold core (fig. 43). The increase in dynamic height of the adjacent station was then sustained by a

general decrease in density of the entire water column over the eastern slopes of the Grand Banks resulting from a general freshening due to increased transport in the cold core of the Labrador Current and mixing of the water of the cold core with surrounding waters. During the 20 June occupation of the station immediately west of the trough (station 271), the cold core was most pronounced ($<1.0^{\circ}\text{C}$, $<33.55\text{‰}$ between 30 and 90 meters) and the water column was generally fresher down to about 350 meters than during the 24 May occupation (fig. 42). Also, from 18 May through 20 June a gradual increase in the dynamic height of the trough station was found (fig. 37). This may be attributed to a decrease in density of the water column brought about by lateral mixing of the cold core or to a recirculation to the northeast of less dense slope water (fig. 3).

The dynamic heights of the trough station and adjacent station during the 26 June occupation of A3 were substantially less than previous values (fig. 37). The decline was greatest for the adjacent station, resulting in a decrease in cross-stream gradient of dynamic height and a sharp reduction in the transport of the cold core and the total transport of the Labrador Current (fig. 43). This decrease in dynamic height between the 20 and 26 June occupations of the adjacent station (stations 271 and 315) was primarily due to an increase in the density of the water below 100 meters, resulting from higher salinity in the water column (fig. 41). Once this influx of more saline water began, the drop in surface dynamic heights was accelerated by a reduction in the transport of the cold core, causing a decrease in the creation of lighter surface waters through mixing with the cold core, and a further decrease in the surface dynamic height.

It appears that the variation in the transport of the Labrador Current observed during May and June 1968 was caused by a sequence of events beginning with a change in the density of the water column below 200 meters west of the dynamic trough. During May a decrease in the density below 200 meters at the adjacent station increased the surface dynamic height and the transport of the less saline, negative-temperature water in the upper 100 meters, causing an increase in the rate of mixing and rate of formation of lighter

water in the surface layers. This increase in the rate of formation of lighter surface water west of the dynamic trough then reinforced the increase in surface dynamic height initiated by the decrease in the density of the water column below 200 meters, further strengthening the transport of the Labrador Current. Morgan (1969) attributed an intensification of the Labrador Current along the eastern slopes of the Grand Banks in May 1967 to unusually low density water west of the dynamic trough below 264 meters. Kollmeyer et al. (1966) recognized the influence of the advection of cold water from the north upon dynamic heights on the Grand Banks, but their hypothesis that accumulated arctic and sub-arctic meltwater was the direct cause of an initial increase in dynamic height on the Grand Banks does not apply to the sudden increase in dynamic height found west of the trough in May 1968. In June 1968 an increase in the salinity of the water column below 100 meters west of the dynamic trough resulted in a decrease in the cross-stream gradient of dynamic height. The accompanying deceleration of the Labrador Current reduced the rate of formation of lighter water in the surface layers, resulting in a further decrease in the cross-stream gradient of dynamic height and the transport of the current.

While it must be emphasized that the oceanographical and meteorological conditions in the Grand Banks region are so variable that a hypothesis adequately explaining the observed conditions during one Ice Patrol season may be inadequate for other seasons, nevertheless the results of the 1968 Ice Patrol suggest that increased attention should be given to variation in the water characteristics in the deeper layers of the water column. The variation in transport of the upper 200 meters of the Labrador Current appears to be a manifestation of deep, underlying changes in the water column.

LABRADOR SEA SECTION

The Labrador Current showed its characteristic temperature distribution on the section from South Wolf Island, Labrador to Cape Farewell, Greenland with a negative temperature core over the Labrador Shelf, a steep horizontal temperature gradient over the continental slope and relatively warmer water

offshore (figs. 44 and 45). The primary southward flow of the cold core of the Labrador Current ($<2.0^{\circ}\text{C}$, $<34.3^{\circ}/_{\infty}$) was found between stations 42 and 43 with a calculated velocity of 18 cm/sec and a minimum temperature of -1.0°C . Southward flow of warmer offshore water of the Labrador Current was traced out to station 45. The total southward transport of the Labrador Current above a 1500 decibar reference level was $4.81 \times 10^6 \text{m}^3/\text{sec}$. The total heat and salt transports southward were $12.09 \times 10^6 \text{C}^{\circ}\text{m}^3/\text{sec}$ and $157.72 \times 10^6 \text{gm}/\text{sec}$, respectively.

At the Greenland side of this section a northward flow was found between stations 51 and 54. However, the colder ($<1^{\circ}\text{C}$) inshore component of the West Greenland Current was found only at the last station, 25 miles off the coast. The warmer Irminger Sea component (5.5°C , $34.95^{\circ}/_{\infty}$) had a peak velocity of 11 cm/sec. The northward transport of this water was $5.71 \times 10^6 \text{m}^3/\text{sec}$ with heat and salt transports of $28.78 \times 10^6 \text{C}^{\circ}\text{m}^3/\text{sec}$ and $197.02 \times 10^6 \text{gm}/\text{sec}$, respectively. The total northward transport of West Greenland Current water through this section above a 1500 decibar reference level was $8.86 \times 10^6 \text{m}^3/\text{sec}$ with a total heat transport of $38.90 \times 10^6 \text{C}^{\circ}\text{m}^3/\text{sec}$. The net transports across this entire section above the 1500 decibar level were $3.16 \times 10^6 \text{m}^3/\text{sec}$ and $22.27 \times 10^6 \text{C}^{\circ}\text{m}^3/\text{sec}$ northwestward.

Although the Labrador Sea section has been occupied 29 times since 1928, this occupation is the latest during any year and occurred after

the cooling season began. This fact and the incomplete transit of the West Greenland Current make comparison with previous occupations of this section questionable.

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Figure 1. Normal dynamic topography (dynamic-meters) of sea surface relative to 1000 decibars for April (Soule, 1964).

Figure 2. Normal dynamic topography (dynamic meters) of sea surface relative to 1000 decibars for May (Soule, 1964).

Figure 3. Normal dynamic topography (dynamic meters) of sea surface relative to 1000 decibars for June (Soule, 1964).

Figure 4. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 2-10 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 5. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 12-15 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 6. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 16-24 April 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 8. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 23-25 May 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 10. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 18–23 June 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 11. Sea-surface dynamic topography (dynamic meters) relative to 1000 decibars, 24-27 June 1968. Arrows denote sea-surface dynamic heights at intervals of 0.02 dynamic meters. Staffs of arrows are drawn perpendicular to imaginary line segments connecting adjacent stations; heads of arrows indicate direction of geostrophic current. Nomograph for obtaining geostrophic speed when entering with distance between 0.02 dynamic-meter contours assumes latitude of 45°.

Figure 12. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/_{\text{oo}}$) and current velocity (cm/sec) profiles for Section A2, 2-3 April 1968. Section A2 possesses a right-angle configuration with station 46 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 13. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A3, 4-6 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 14. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A4, 8 April 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

Figure 15. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 12-13 April 1968. Section A2 possesses a right-angle configuration with station 93 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 16. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A3, 13-14 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 17. Temperature ($^{\circ}\text{C}$), salinity (‰) profiles for Section A4, 14-15 April 1968. The velocity profile has been omitted because the spacing of stations was inadequate for proper integration of dynamic heights along the sea bottom.

Figure 18. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{‰}$) and current velocity (cm/sec) profiles for Section A2, 16-17 April 1968. Section A2, possesses a right-angle configuration with station 123 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 19. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{‰}$) and current velocity (cm/sec) profiles for Section A3, 21 April 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 20. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{‰}$) and current velocity (cm/sec) profiles for Section A4, 24 April 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

Figure 21. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 14-18 May 1968. Section A2 possesses a right-angle configuration with station 179 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 22. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{oo}$) and current velocity (cm/sec) profiles for Section A3, 18-19 May 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 23. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A4, 20-21 May 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

Figure 24. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 23-24 May 1968. Section A2 possesses a right-angle configuration with station 215 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 25. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{‰}$) and current velocity (cm/sec) profiles for Section A3, 24-25 May 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 26. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 30 May 1968. Section A2 possesses a right-angle configuration with station 237 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow. At station 237 this convention results in a change in sign along the same contour.

Figure 27. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A3, 31 May-1 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 28. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 18–19 June 1968. Section A2 possesses a right-angle configuration with station 260 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow.

Figure 29. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A3, 20 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 30. Temperature ($^{\circ}\text{C}$), and salinity (‰) profiles for Section A4, 21 June 1968. The velocity profile has been omitted because the spacing of stations was inadequate for proper integration of dynamic heights along the sea bottom.

Figure 31. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A2, 24–25 June 1968. Section A2 possesses a right-angle configuration with station 299 located at the corner. On the velocity profile positive values denote southward or westward flow, negative values denote northward or eastward flow. At station 299 this convention results in a change of sign along the same contour.

Figure 32. Temperature ($^{\circ}\text{C}$), salinity (‰) and current velocity (cm/sec) profiles for Section A3, 25-26 June 1968. On the velocity profile positive values denote southward flow, negative values denote northward flow.

Figure 33. Temperature ($^{\circ}\text{C}$), salinity ($^{\circ}/\text{‰}$) and current velocity (cm/sec) profiles for Section A4, 26-27 June 1968. On the velocity profile positive values denote westward flow, negative values denote eastward flow.

4 - 6 APRIL

13 - 14 APRIL

21 APRIL

Figure 34. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 4-6, 13-14 and 21 April 1968. The profiles are referenced on the left to longitude 49°40'W.

Figure 35. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 18-19 and 24-25 May and 31 May-1 June 1968. The profiles are referenced on the left to longitude 49°40'W.

Figure 36. Profiles of dynamic topography of the sea surface (dynamic meters) relative to 1000 decibars for occupations of Section A3 during 20 June and 25-26 June 1968. The profiles are referenced on the left to longitude 49°40'W.

Figure 37. Variation with time of the sea surface dynamic heights (dynamic meters) at the eastern slope of the Grand Banks along Section A3 during the 1968 International Ice Patrol.

Figure 38. Temperature-salinity ($^{\circ}\text{C}$), (‰) diagram for trough stations and stations immediately west of the trough along Section A3. Stations taken prior to 18 May are not represented. Solid lines represent trough stations; dashed lines represent stations immediately west of the trough. The diagonal curves are isopleths of σ_t .

Figure 39. Plot of dynamic height anomaly (dynamic centimeters) versus depth (meters) relative to 1000 decibars. Stations taken prior to 18 May are not represented. Anomalies of dynamic height in water shallower than the reference level were computed in a manner similar to that described by Helland-Hansen (1934); the methods used are described in detail by Kollmeyer (1967).

Figure 40. Temperature-salinity ($^{\circ}\text{C}$), (‰) diagram for stations 190 and 224, 18 May and 24 May 1968 respectively. Solid line represents station 190; dashed line represents station 224. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t .

Figure 41. Temperature-salinity ($^{\circ}\text{C}$), (‰) diagram for stations 271 and 315, 20 June and 26 June 1968 respectively. Solid line represents station 315 dashed line represents station 271. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t .

Figure 42. Temperature-salinity ($^{\circ}\text{C}$), (‰) diagram for stations 224 and 271, 24 May and 20 June 1968 respectively. Solid line represents station 224; dashed line represents station 271. Depths of observations are indicated near observation points. The diagonal curves are isopleths of σ_t .

Figure 43. Variation in volume transports ($10^6 \text{ m}^3/\text{sec}$) of the Labrador Current along Sections A2 and A3 during the 1968 Ice Patrol. The solid line denotes the transport of water colder than 2°C and fresher than 34.0/00; the dashed line denotes the total flow of the Labrador Current as defined in the text.

Figure 44. Temperature ($^{\circ}\text{C}$) profile from South Wolf Island, Labrador to Cape Farewell, Greenland obtained by USCGC EASTWIND during 24-26 October 1968.

Figure 45. Salinity (‰) profile from South Wolf Island, Labrador to Cape Farewell, Greenland obtained by USCGC EASTWIND during 24–26 October 1968.

APPENDIX A

OCEANOGRAPHIC DATA

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

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

Depth to Bottom	Corrected or uncorrected sounding in meters.
Max. Depth of Samples	Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations:	
DIR	Rounded to nearest multiple of ten degrees.
HGT	In increments of $\frac{1}{2}$ m. Sum of 5 meters plus increments of $\frac{1}{2}$ m if 50 is added to direction.
PER	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or 2X (numeric entry) + 1. For other entries see WMO Code 3155.
SEA	Sea state according to WMO Code 3700
Weather Code	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud Code:	
Type	Cloud type according to WMO Code 0500.
Amount	Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water:	
Color Code	Color according to Forel-Ule scale.
Trans	Transparency in whole meters as determined by Secchi disc.
Wind:	
Dir	Rounded to nearest multiple of ten degrees.
Speed or Force	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.
Barometer	Barometric pressure given in tens, units and tenths of millibars.
Air Temp. ° C.	Air temperature to tenths of a degree centigrade.
Vis. Code	Visibility according to WMO Code 4300.
No obs. depths	Number of observed levels associated with the station.
Messenger time	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m)	Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; $\bar{3}$ indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T °C.	Temperature to hundredths of a degree Centigrade.
S ‰	Salinity in parts-per-thousand.
SIGMA-T	Entered to hundredths.
Specific-volume	Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.
Anomaly— $\times 10^3$	
$\Sigma \Delta$ Dyn. M. $\times 10^3$	Multiply entry by 10^{-3} to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.
Sound Velocity	Sound velocity according to Wilson's formula entered to tenths of a meter per second.
O ₂ ml/l	Dissolved oxygen in milliliters per liter entered to hundredths.
PO ₄ -P μ g-at/l	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total-P μ g-at/l	Total phosphorus in microgram-atoms per liter entered to hundredths.
NO ₂ -N μ g-at/l	Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO ₃ -N μ g-at/l	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si μ g-at/l	Silicate-silicon in microgram-atoms per liter entered to whole units.
pH	Entered to hundredths.

TABLE I. Observed and interpolated oceanographic data for stations taken by USCGC EVER-GREEN during the 1968 International Ice Patrol, 2 April-27 June 1968, prepared from NODC listing No. 31-8039.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT FOOT	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
318039	EV		48335N	046100W		149	86	04	02	237	1968	001	10041A	1737	1	06	4	3		X1	6	1	0001			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
									13	508	105	022	017	7	12											
MESSAGE TIME HR 1/10	CAS T 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 ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C								
		STD	0000	-0069	3334	2682	0012374		0000	14438																
		OBS	0000	-0069	33342	2682				14438																
		STD	0010	-0075	3334	2682	0012369		0012	14437																
		OBS	0010	-0075	33340	2682				14437																
		STD	0020	-0070	3342	2688	0011759		0024	14442																
		OBS	0029	-0065	33521	2696				14447																
		STD	0030	-0060	3353	2697	0010924		0035	14450																
		STD	0050	0052	3385	2717	0009035		0055	14509																
		OBS	0050	0052	33851	2717				14509																
		OBS	0074	0207	34359	2747				14589																
		STD	0075	0211	3437	2748	0006153		0074	14591																
		OBS	0098	0282	34567	2758				14629																
		STD	0100	0281	3457	2758	0005235		0089	14628																
		STD	0125	0265	3460	2762	0004859		0101	14626																
		OBS	0148	0250	34634	2766				14624																
		STD	0150	0259	3465	2766	0004512		0113	14628																
		OBS	10198	0426	34853	2766				14710																
		STD	0200	0427	3486	2766	0004591		0136	14711																
		STD	0250	0445	3490	2768	0004482		0158	14727																
		OBS	0298	0452	34930	2770				14738																
		STD	0300	0452	3493	2770	0004406		0180	14739																
		OBS	10393	0438	34935	2772				14748																
		OBS	0597	0403	34914	2774				14767																
		STD	0600	0403	3491	2774				14768																
		STD	0700	0390	3491	2775				14779																
		STD	0800	0380	3491	2776				14791																
		OBS	10802	0380	34909	2776				14792																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METERS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT			
318039	EV		48335N	046100W		149	86	04	03	006	1968	001	100418	1737	1		06	4	3		X1	0	3	0002	
						WATER			WIND			BARO- METER (mb)	AIR TEMP. °C			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
						DT	SD	13	S08	105	022	017	7	23											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/1	TOTAL-P μg - 01/1	NO ₃ -N μg - 01/1	NO ₂ -N μg - 01/1	SIO ₄ -Si μg - 01/1	pH	S								
		STD	0000	-0064	3336	2683	0012283	0000	14441																
006		OBS	0000	-0064	33357	2683			14441																
		STD	0010	-0060	3351	2695	0011095	0011	14446																
		OBS	0010	-0060	33513	2695			14446																
		STD	0020	0037	3376	2711	0009623	0022	14496																
003		OBS	0020	0037	33763	2711			14496																
		OBS	0025	0038	33778	2712			14497																
		STD	0030	0054	3379	2712	0009524	0031	14506																
		OBS	0030	0054	33788	2712			14506																
		STD	0050	0188	3427	2742	0006707	0047	14576																
		OBS	0050	0188	34273	2742			14576																
		STD	0075	0277	3449	2752	0005760	0063	14622																
		OBS	0075	0277	34493	2752			14622																
		STD	0100	0326	3467	2762	0004859	0076	14649																
		OBS	0100	0326	34673	2762			14649																
		STD	0125	0367	3474	2764	0004748	0088	14672																
		OBS	0125	0367	34743	2764			14672																
		STD	0150	0428	3482	2764	0004792	0100	14703																
		OBS	0150	0428	34823	2764			14703																
		STD	0200	0460	3489	2765	0004697	0124	14725																
		OBS	0200	0460	34889	2765			14725																
		STD	0250	0462	3491	2767	0004628	0147	14734																
		OBS	0250	0462	34908	2767			14734																
		STD	0300	0456	3491	2768	0004571	0170	14740																
		OBS	0300	0456	34914	2768			14740																
		STD	0400	0437	3492	2771	0004410	0215	14749																
		OBS	0400	0437	34922	2771			14749																
		STD	0500	0426	3491	2771	0004456	0259	14761																
		OBS	0500	0426	34913	2771			14761																
		STD	0600	0409	3491	2773	0004398	0304	14770																
		OBS	0600	0409	34908	2773			14770																
		STD	0700	0397	3490	2773	0004385	0348	14782																
		OBS	0700	0397	34904	2773			14782																
		STD	0800	0381	3490	2775	0004313	0391	14792																
		OBS	0800	0381	34901	2775			14792																
		STD	0900	0376	3491	2776	0004293	0434	14806																
		OBS	0900	0376	34908	2776			14806																
		STD	1000	0375	3491	2777	0004325	0477	14823																
		OBS	1000	0375	34914	2777			14823																
		STD	1100	0366	3492	2778	0004237	0520	14836																
		OBS	1100	0366	34922	2778			14836																
		STD	1200	0362	3492	2779	0004256	0563	14851																
		OBS	1200	0362	34925	2779			14851																
		STD	1300	0351	3493	2780	0004181	0605	14863																
		OBS	1300	0351	34928	2780			14863																

REFERENCE		SHIP CODE	LATITUDE ° '"/10	LONGITUDE ° '"/10	GMT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318039	EV		4619 N	046090W		149	86	04	03	023	1968	001	10042	1189	1	07	4	3		XO	0 3	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										
						DT	SD	13	S08	098	022	022	7	21								

MESSAGE TIME HR 1/10	CAS 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 $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₂ -Si $\mu g \cdot dl/l$	pH	3 C
		STD	0000	-0033	3339	2685	0012129	0000	14455								
	023	OBS	0000	-0033	33393	2685			14455								
		STD	0010	-0024	3347	2691	0011548	0011	14462								
		OBS	0010	-0024	33473	2691			14462								
	002	OBS	0017	-0042	33513	2695			14456								
		STD	0020	-0025	3362	2703	0010397	0022	14466								
		OBS	0020	-0025	33623	2703			14466								
		OBS	0025	0002	33673	2706			14480								
		STD	0030	0022	3378	2713	0009395	0032	14491								
		OBS	0030	0022	33783	2713			14491								
		STD	0050	0056	3392	2723	0008503	0050	14512								
		OBS	0050	0056	33923	2723			14512								
		STD	0075	0157	3434	2750	0005961	0068	14567								
		OBS	0075	0157	34343	2750			14567								
		STD	0100	0247	3450	2756	0005452	0083	14613								
		OBS	0100	0247	34503	2756			14613								
		STD	0125	0327	3467	2762	0004879	0095	14654								
		OBS	0125	0327	34674	2762			14654								
		STD	0150	0387	3478	2765	0004669	0107	14685								
		OBS	0150	0387	34783	2765			14685								
		STD	0200	0438	3486	2766	0004650	0131	14716								
		OBS	0200	0438	34863	2766			14716								
		STD	0250	0456	3490	2767	0004642	0154	14732								
		OBS	0250	0456	34898	2767			14732								
		STD	0300	0456	3491	2768	0004571	0177	14740								
		OBS	0300	0456	34914	2768			14740								
		STD	0400	0452	3493	2769	0004532	0222	14755								
		OBS	0400	0452	34928	2769			14755								
		STD	0500	0436	3493	2772	0004423	0267	14765								
		OBS	0500	0436	34932	2772			14765								
		STD	0600	0418	3493	2773	0004349	0311	14774								
		OBS	0600	0418	34928	2773			14774								
		STD	0700	0406	3492	2774	0004382	0355	14786								
		OBS	0700	0406	34918	2774			14786								
		STD	0800	0392	3491	2775	0004343	0398	14796								
		OBS	0800	0392	34914	2775			14796								
		STD	0900	0382	3491	2776	0004324	0442	14809								
		OBS	0900	0382	34913	2776			14809								
		STD	1000	0368	3491	2777	0004237	0484	14820								
		OBS	1000	0368	34914	2777			14820								

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 S'AMPL'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
318039	EV		47580N	046070W		149	76	04	03	044	1968	001	10043	1097	1	07	2	2		X0	0 3		0004
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (ml)	DIR.	WIND SPEED OR FORCE	DRY BULB		WET BULB															
		DT	SD	13	S10	098		028 022		7 27													
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. AL. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	°C		
		STO	0000	0056	3358	2696		0011089		0000		14499											
044		OBS	0000	0056	33584	2696						14499											
		STO	0010	0087	3368	2702		0010511		0010		14516											
		OBS	0010	0087	33683	2702						14516											
		STO	0020	0087	3371	2704		0010276		0021		14518											
002		OBS	0020	0087	33713	2704						14518											
		OBS	0025	0097	33753	2707						14524											
		STO	0030	0127	3380	2709		0009846		0031		14539											
		OBS	0030	0127	33803	2709						14539											
		STO	0050	0186	3397	2718		0008963		0050		14571											
		OBS	0050	0186	33973	2718						14571											
		OBS	0052	0188	33993	2720						14572											
		OBS	0060	0147	33958	2720						14555											
		OBS	0068	0215	34023	2720						14587											
		STO	0075	0127	3394	2720		0008788		0072		14548											
		OBS	0075	0127	33943	2720						14548											
		STO	0100	0242	3428	2739		0007074		0092		14608											
		OBS	0100	0242	34283	2739						14608											
		STO	0125	0377	3465	2755		0005526		0107		14675											
		OBS	0125	0377	34652	2755						14675											
		STO	0150	0392	3468	2756		0005463		0121		14686											
		OBS	0150	0392	34683	2756						14686											
		OBS	0170	0426	34783	2761						14705											
		STO	0200	0422	3483	2765		0004706		0147		14708											
		OBS	0200	0422	34833	2765						14708											
		STO	0250	0408	3486	2769		0004388		0169		14711											
		OBS	0250	0408	34862	2769						14711											
		STO	0300	0398	3487	2770		0004286		0191		14715											
		OBS	0300	0398	34868	2770						14715											
		OBS	0356	0397	34871	2771						14724											
		OBS	0360	0416	34898	2771						14733											
		OBS	0390	0417	34923	2773						14739											
		STO	0400	0406	3491	2773		0004138		0233		14736											
		OBS	0400	0406	34912	2773						14736											
		STO	0500	0405	3491	2773		0004198		0275		14752											
		OBS	0500	0405	34915	2773						14752											
		STO	0600	0387	3491	2775		0004134		0316		14761											
		OBS	0600	0387	34910	2775						14761											
		STO	0700	0377	3491	2776		0004092		0358		14773											
		OBS	0700	0377	34913	2776						14773											
		STO	0800	0376	3491	2776		0004170		0399		14790											
		OBS	0800	0376	34913	2776						14790											
		STO	0900	0366	3491	2777		0004138		0440		14802											
		OBS	0900	0366	34913	2777						14802											
		STO	1000	0358	3492	2779		0004053		0481		14815											
		OBS	1000	0358	34923	2779						14815											

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'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318039	EV		4740 N	04606 W	149	76	04	03	064	1968	001	10044	0914	1	08	2	2		X6	0 3		0005	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbars)		DRY BULB	WET BULB														
		DT	SO	13	S09	095		028	022	5	26												
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC					
		STD	0000	0336	3371	2685	0012111		0000	14624													
	064	OBS	0000	0336	33713	2685				14624													
		STD	0010	0072	3347	2686	0012021		0012	14506													
		OBS	0010	0072	33473	2686				14506													
	001	STD	0020	0058	3360	2697	0010989		0023	14503													
		OBS	0020	0058	33598	2697				14503													
		OBS	0025	0057	33623	2699				14504													
		STD	0030	0057	3363	2699	0010771		0034	14505													
		OBS	0030	0057	33626	2699				14505													
		OBS	0041	0127	33831	2711				14541													
		STD	0050	0122	3386	2714	0009361		0054	14541													
		OBS	0050	0122	33863	2714				14541													
		OBS	0055	0205	33963	2716				14580													
		STD	0075	0205	3400	2719	0008912		0077	14583													
		OBS	0075	0205	33999	2719				14583													
		OBS	0090	0183	34082	2727				14577													
		STD	0100	0197	3420	2735	0007368		0097	14587													
		OBS	0100	0197	34197	2735				14587													
		OBS	0105	0287	34313	2737				14628													
		STD	0125	0357	3453	2748	0006258		0114	14665													
		OBS	0125	0357	34529	2748				14665													
		OBS	0132	0332	34533	2750				14655													
		OBS	0139	0398	34671	2755				14686													
		STD	0150	0381	3470	2759	0005261		0129	14681													
		OBS	0150	0381	34696	2759				14681													
		STD	0200	0441	3485	2764	0004796		0154	14717													
		OBS	0200	0441	34848	2764				14717													
		STD	0250	0449	3489	2767	0004584		0177	14729													
		OBS	0250	0449	34895	2767				14729													
		STD	0300	0418	3487	2768	0004516		0200	14724													
		OBS	0300	0418	34866	2768				14724													
		STD	0400	0426	3492	2771	0004310		0244	14744													
		OBS	0400	0426	34918	2771				14744													
		OBS	0487	0418	34915	2772				14755													
		STD	0500	0407	3490	2772	0004317		0287	14753													
		OBS	0500	0407	34903	2772				14753													
		OBS	0505	0396	34893	2773				14749													
		STD	0600	0388	3490	2774	0004233		0330	14761													
		OBS	0600	0388	34898	2774				14761													
		STD	0700	0384	3490	2775	0004238		0372	14776													
		OBS	0700	0384	34903	2775				14776													
		STD	0800	0377	3490	2775	0004252		0415	14790													
		OBS	0800	0377	34903	2775				14790													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER								
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT									
318039	EV		47190N	046040W		149	76	04	03	087	1968	001	10045	0384	1	31	4	2		X1	0	3	0006								
						WATER		WIND		AIR TEMP. °C		BARO- METER		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS															
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE																			
						07	50	31	516	125	017	011	6	19																	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC
		STO	0000	0457	3371	2672	0013287	0000	14675								
	087	OBS	0000	0457	33711	2672			14675								
		STO	0010	0457	3371	2672	0013288	0013	14677								
		OBS	0010	0457	33712	2672			14677								
	001	STO	0020	0450	3371	2673	0013225	0026	14676								
		OBS	0020	0450	33713	2673			14676								
		OBS	0025	0444	33710	2674			14674								
		STO	0030	0444	3371	2674	0013188	0039	14675								
		OBS	0030	0444	33711	2674			14675								
		STO	0050	0444	3372	2675	0013125	0066	14678								
		OBS	0050	0444	33721	2675			14678								
		OBS	0062	0429	33855	2687			14676								
		STO	0075	0437	3403	2700	0010726	0095	14683								
		OBS	0075	0437	34034	2700			14683								
		STO	0100	0422	3425	2719	0008969	0120	14684								
		OBS	0100	0422	34251	2719			14684								
		STO	0125	0440	3445	2733	0007663	0141	14699								
		OBS	0125	0440	34453	2733			14699								
		STO	0150	0459	3459	2742	0006893	0159	14712								
		OBS	0150	0459	34586	2742			14712								
		OBS	0190	0492	34805	2755			14736								
		STO	0200	0457	3478	2757	0005496	0190	14722								
		OBS	0200	0457	34778	2757			14722								
		OBS	0221	0458	34813	2760			14727								
		OBS	0230	0495	34916	2764			14745								
		STO	0250	0491	3492	2764	0004870	0216	14747								
		OBS	0250	0491	34920	2764			14747								
		OBS	0272	0454	34887	2766			14734								
		STO	0300	0445	3488	2767	0004688	0240	14735								
		OBS	0300	0445	34882	2767			14735								
		OBS	0365	0436	34888	2768			14742								

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER								
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DR	HGT	PER	SEA		TYPE	AMT									
318039	EV		47020N	046028W		149	76	04	03	105	1968	001	10046	0324	1	31	3	2		X2	0	3	0007								
						WATER		WIND		AIR TEMP. °C		BARO- METER		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS															
						COLOR	TRANS.	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS.																			
						DT	SO	31	516	132	017	006	6	15																	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC
		STO	0000	0448	3381	2681	0012437	0000	14673								
	105	OBS	0000	0448	33812	2681			14673								
		STO	0010	0450	3381	2681	0012446	0012	14675								
		OBS	0010	0450	33815	2681			14675								
	002	STO	0020	0450	3381	2681	0012456	0024	14677								
		OBS	0020	0450	33815	2681			14677								
		OBS	0025	0449	33816	2682			14677								
		STO	0030	0448	3382	2682	0012438	0037	14678								
		OBS	0030	0448	33816	2682			14678								
		STO	0050	0437	3384	2685	0012175	0062	14677								
		OBS	0050	0437	33838	2685			14677								
		STO	0075	0395	3406	2707	0010105	0089	14666								
		OBS	0075	0395	34061	2707			14666								
		STO	0100	0432	3431	2723	0008619	0113	14689								
		OBS	0100	0432	34311	2723			14689								
		STO	0125	0472	3453	2736	0007420	0133	14713								
		OBS	0125	0472	34531	2736			14713								
		OBS	0127	0476	34553	2737			14715								
		OBS	0133	0449	34540	2739			14705								
		STO	0150	0452	3458	2742	0006900	0151	14709								
		OBS	0150	0452	34576	2742			14709								
		STO	0200	0462	3474	2754	0005796	0182	14724								
		OBS	0200	0462	34745	2754			14724								
		STO	0250	0451	3484	2763	0004989	0209	14729								
		OBS	0250	0451	34844	2763			14729								
		OBS	0285	0437	34853	2765			14729								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUT MDCN	MARSDEN SQUARE	STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV		4702 N	046208W		149	76	04	03	120	1968	001	10047	0302	1	30	2	2		X2	0	3	0008
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	30	S18	146	028	006	7	18	
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MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	°C
		STD	0000	0441	3360	2665	0013975	0000	14667								
		OBS	0000	0441	33598	2665			14667								
		STD	0010	0448	3372	2674	0013116	0013	14673								
		OBS	0010	0448	33723	2674			14673								
		STD	0020	0449	3377	2678	0012763	0026	14676								
		OBS	0020	0449	33773	2678			14676								
		OBS	0025	0450	33794	2680			14677								
		STD	0030	0447	3381	2682	0012438	0039	14677								
		OBS	0030	0447	33815	2682			14677								
		STD	0050	0441	3386	2686	0012031	0063	14679								
		OBS	0050	0441	33863	2686			14679								
		STD	0075	0439	3402	2699	0010835	0092	14684								
		OBS	0075	0439	34023	2699			14684								
		OBS	0085	0437	34265	2718			14688								
		STD	0100	0464	3435	2723	0008645	0116	14703								
		OBS	0100	0464	34353	2723			14703								
		OBS	0110	0472	34389	2724			14709								
		OBS	0120	0449	34413	2729			14701								
		STD	0125	0450	3445	2732	0007774	0137	14703								
		OBS	0125	0450	34453	2732			14703								
		STD	0150	0466	3456	2739	0007157	0155	14715								
		OBS	0150	0466	34562	2739			14715								
		OBS	0160	0451	34573	2741			14710								
		STD	0200	0465	3483	2760	0005167	0186	14726								
		OBS	0200	0465	34833	2760			14726								
		OBS	0235	0445	34804	2760			14723								
		STD	0250	0442	3481	2761	0005119	0212	14725								
		OBS	0250	0442	34813	2761			14725								
		OBS	0275	0440	34832	2763			14728								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARSEEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318039	EV		4702 N	04635 W	149	76	04	03	133	1968	001	10048	0713	1	30	2	3			X2	0	3		0009
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S0	26	S20	152	033	011	7	24										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	Si O ₄ -Si $\mu g - ml/l$	pH	S CC							
		STO	0000	0444	3368	2671	0013387	0000	14669															
133		OBS	0000	0444	33681	2671			14669															
		STO	0010	0444	3368	2672	0013360	0013	14671															
		OBS	0010	0444	33685	2672			14671															
		STO	0020	0443	3369	2672	0013315	0026	14672															
002		OBS	0020	0443	33691	2672			14672															
		OBS	0025	0443	33721	2675			14674															
		STO	0030	0442	3372	2675	0013070	0039	14674															
		OBS	0030	0442	33723	2675			14674															
		OBS	0032	0442	33741	2676			14675															
		OBS	0040	0416	33813	2685			14666															
		OBS	0047	0431	33941	2693			14675															
		STO	0050	0435	3391	2690	0011624	0064	14677															
		OBS	0050	0435	33909	2690			14677															
		OBS	0070	0437	34000	2697			14682															
		STO	0075	0425	3401	2700	0010751	0092	14678															
		OBS	0075	0425	34014	2700			14678															
		OBS	0088	0397	34060	2706			14669															
		OBS	0092	0407	34218	2718			14676															
		OBS	0097	0377	34197	2719			14664															
		STO	0100	0397	3426	2722	0008674	0116	14674															
		OBS	0100	0397	34256	2722			14674															
		OBS	0110	0427	34394	2730			14690															
		STO	0125	0427	3449	2737	0007244	0136	14694															
		OBS	0125	0427	34491	2737			14694															
		STO	0150	0442	3465	2749	0006211	0153	14706															
		OBS	0150	0442	34653	2749			14706															
		STO	0200	0457	3483	2761	0005091	0181	14723															
		OBS	0200	0457	34831	2761			14723															
		STO	0250	0442	3487	2766	0004696	0206	14726															
		OBS	0250	0442	34870	2766			14726															
		STO	0300	0430	3489	2769	0004498	0229	14729															
		OBS	0300	0430	34886	2769			14729															
		STO	0400	0416	3489	2771	0004381	0273	14740															
		OBS	0400	0416	34894	2771			14740															
		STO	0500	0403	3490	2773	0004276	0317	14751															
		OBS	0500	0403	34902	2773			14751															
		OBS	0555	0397	34901	2773			14758															

REFERENCE CTAT CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY POSITION	MARSDEN SOURCE		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	AMT
						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C		NO. OBS. DEPTHS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DT	SD	24	S10	159	033	011	7	25									
318039	EV		4702 N	04649 W		149	76	04	03	145	1968	001	10049	1189	1	29	2	2		X2	0 3		0010

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT
318039	EV		4702 N	047045W		149	77	04	03	155	1968	001	10050	1079	1	29	2	2		X1	0	3		0011
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
		DT	SD	26	S12	166	028	011	7	23														
MESSAGE TIME HR 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 - 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							
		STD	0000	-0063	3325	2675	0013079		0000	14440														
155		OBS	0000	-0063	33253	2675				14440														
		STD	0010	-0103	3324	2675	0013028		0013	14422														
		OBS	0010	-0103	33241	2675				14422														
		STD	0020	-0111	3326	2677	0012878		0026	14421														
002		OBS	0020	-0111	33257	2677				14421														
		OBS	0025	-0112	33293	2680				14421														
		STD	0030	-0112	3332	2682	0012402		0038	14423														
		OBS	0030	-0112	33318	2682				14423														
		OBS	0040	-0104	33368	2685				14429														
		STD	0050	-0056	3353	2697	0010944		0062	14455														
		OBS	0050	-0056	33533	2697				14455														
		STD	0075	0066	3401	2730	0007882		0085	14522														
		OBS	0075	0066	34013	2730				14522														
		STD	0100	0219	3438	2748	0006130		0103	14599														
		OBS	0100	0219	34383	2748				14599														
		STD	0125	0304	3455	2754	0005620		0117	14642														
		OBS	0125	0304	34548	2754				14642														
		STD	0150	0359	3465	2757	0005361		0131	14671														
		OBS	0150	0359	34653	2757				14671														
		OBS	0179	0416	34779	2762				14702														
		STD	0200	0424	3480	2762	0004967		0157	14709														
		OBS	0200	0424	34801	2762				14709														
		OBS	0230	0417	34803	2763				14711														
		STD	0250	0432	3484	2765	0004789		0181	14721														
		OBS	0250	0432	34843	2765				14721														
		STD	0300	0442	3488	2767	0004632		0205	14734														
		OBS	0300	0442	34885	2767				14734														
		STD	0400	0435	3490	2769	0004507		0250	14748														
		OBS	0400	0435	34905	2769				14748														
		STD	0500	0423	3491	2771	0004434		0295	14759														
		OBS	0500	0423	34911	2771				14759														
		STD	0600	0400	3490	2773	0004331		0339	14766														
		OBS	0600	0400	34903	2773				14766														
		STD	0700	0377	3488	2773	0004351		0382	14773														
		OBS	0700	0377	34878	2773				14773														
		STD	0800	0372	3489	2775	0004313		0426	14788														
		OBS	0800	0372	34887	2775				14788														
		STD	0900	0366	3489	2776	0004289		0469	14802														
		OBS	0900	0366	34893	2776				14802														
		STD	1000	0361	3490	2777	0004264		0511	14816														
		OBS	1000	0361	34899	2777				14816														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDEX	MARSEON SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	4702 N	04722 W	149	77	04 03 170	1968	001	10051	0267	1	22	2	2		X1	0	3	0012
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mbars)	CRY BULB	WET BULB	VIS. CODE							
					DT	SD	21	S06	163	028	011	7	19						

MESSNGR TIME OF NR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C
		STD	0000	-0083	3293	2650	0015459	0000	14426								
170		OBS	0000	-0083	32934	2650			14426								
		STD	0010	-0115	3291	2649	0015507	0015	14412								
		OBS	0010	-0115	32914	2649			14412								
002		STD	0020	-0103	3298	2654	0015040	0030	14420								
		OBS	0020	-0103	32978	2654			14420								
		OBS	0025	-0097	32996	2655			14424								
		STD	0030	-0124	3301	2657	0014688	0045	14413								
		OBS	0030	-0124	33015	2657			14413								
		OBS	0039	-0116	33173	2670			14420								
		OBS	0043	-0055	33253	2674			14450								
		STD	0050	-0036	3329	2677	0012862	0073	14461								
		OBS	0050	-0036	33293	2677			14461								
		OBS	0055	-0033	33303	2677			14463								
		OBS	0061	-0086	33289	2678			14439								
		STD	0075	-0103	3333	2683	0012278	0104	14434								
		OBS	0075	-0103	33334	2683			14434								
		OBS	0079	-0103	33392	2687			14436								
		OBS	0092	0001	33529	2694			14488								
		STD	0100	0015	3359	2698	0010837	0133	14497								
		OBS	0100	0015	33588	2698			14497								
		OBS	0105	0003	33682	2706			14493								
		STD	0125	0106	3407	2732	0007672	0156	14549								
		OBS	0125	0106	34073	2732			14549								
		STD	0150	0183	3422	2738	0007121	0175	14589								
		OBS	0150	0183	34218	2738			14589								
		STD	0200	0251	3443	2749	0006104	0208	14630								
		OBS	0200	0251	34428	2749			14630								
		OBS	0240	0317	34600	2757			14667								

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDEX	MARSEON SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	4702 N	047369W	149	77	04 03 182	1968	001	10052	0201	1	22	2	2		X1	0	3	0013
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mbars)	CRY BULB	WET BULB	VIS. CODE							
					DT	SD	22	S06	169	028	011	7	14						

MESSNGR TIME OF NR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C
		STD	0000	-0050	3267	2627	0017568	0000	14438								
182		OBS	0000	-0050	32673	2627			14438								
		STD	0010	-0064	3268	2629	0017436	0017	14433								
		OBS	0010	-0064	32683	2629			14433								
001		STD	0020	-0069	3270	2630	0017259	0034	14432								
		OBS	0020	-0069	32703	2630			14432								
		OBS	0025	-0082	32703	2631			14427								
		STD	0030	-0089	3272	2633	0017034	0052	14425								
		OBS	0030	-0089	32723	2633			14425								
		STD	0050	-0103	3284	2643	0016070	0085	14423								
		OBS	0050	-0103	32842	2643			14423								
		OBS	0062	-0098	32913	2648			14429								
		OBS	0065	-0133	32913	2649			14413								
		STD	0075	-0112	3303	2659	0014562	0123	14426								
		OBS	0075	-0112	33033	2659			14426								
		OBS	0087	-0023	33173	2667			14471								
		STD	0100	0001	3327	2674	0013152	0158	14486								
		OBS	0100	0001	33274	2674			14486								
		STD	0125	0043	3348	2688	0011780	0189	14512								
		OBS	0125	0043	33482	2688			14512								
		STD	0150	0083	3374	2707	0010036	0216	14538								
		OBS	0150	0083	33743	2707			14538								
		OBS	0180	0120	33918	2718			14562								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
318039	EV		44384N	049201W		149	49	04	04	173	1968	001	10053		0060	1	23	2	2		X2	0	3		0014		
							WATER		WIND				AIR TEMP. °C														
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
							DT	SD	24	S12	213	022	011	7	06												

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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	0104	3286	2635	0016844	0000	14511								
	173	OBS	0000	0104	32863	2635			14511								
		STD	0010	0104	3286	2635	0016844	0016	14512								
		OBS	0010	0104	32863	2635			14512								
		STD	0020	0093	3286	2635	0016824	0033	14509								
	001	OBS	0020	0093	32858	2635			14509								
		OBS	0025	0090	32865	2636			14508								
		STD	0030	0089	3287	2636	0016724	0050	14509								
		OBS	0030	0089	32868	2636			14509								
		STD	0050	0089	3287	2637	0016686	0083	14512								
		OBS	0050	0089	32872	2637			14512								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CTRY CODE	ID. NO.						10"	1"		MO	DAY			HR	10	CRUISE NO.		STATION NUMBER	DIR.		HGT	PER	SEA	TYPE	AMT		
318039	EV		44365N	04912 W		149	49	04	04	176	1968	001	10054		0064	1	22	2	2		X6	0	3			0015	
							WATER			WIND			AIR TEMP. °C									SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS											
							DT	SD	23	S15	159	222	111	7	06												

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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	0107	3288	2636	0016735	0000	14512								
	176	OBS	0000	0107	32880	2636			14512								
		STD	0010	0093	3288	2637	0016635	0016	14508								
		OBS	0010	0093	32883	2637			14508								
		STD	0020	0091	3288	2637	0016607	0033	14508								
	001	OBS	0020	0091	32885	2637			14508								
		OBS	0025	0090	32886	2638			14509								
		STD	0030	0090	3289	2638	0016570	0049	14510								
		OBS	0030	0090	32889	2638			14510								
		STD	0050	0089	3289	2638	0016541	0083	14512								
		OBS	0050	0089	32891	2638			14512								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CTRY CODE	ID. NO.						10"	1"		MO	DAY			HR.	10"	CRUISE NO.		STATION NUMBER	DIR.		HGT	PER	SEA	TYPE	AMT		
318039	EV		44365N	04912 W		149	49	04	04	179	1968	001	10055		0062	1	22	2	2		X1	0	3			0016	
							WATER			WIND			AIR TEMP. °C									SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS											
							DT	SD	23	S15	159	222	111	7	06												

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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	0066	3285	2636	0016717	0000	14493								
	179	OBS	0000	0066	32852	2636			14493								
		STD	0010	0059	3284	2636	0016743	0016	14492								
		OBS	0010	0059	32844	2636			14492								
		STD	0020	0048	3286	2638	0016559	0033	14488								
	001	OBS	0020	0048	32860	2638			14488								
		OBS	0025	0048	32855	2637			14489								
		STD	0030	0053	3285	2637	0016621	0050	14492								
		OBS	0030	0053	32855	2637			14492								
		STD	0050	0064	3288	2639	0016483	0083	14501								
		OBS	0050	0064	32881	2639			14501								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY MOON	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		44365N	04912 W		149	49	04	04	182	1968	001	10056	0280	1	22	2	2		X1	0	3	0017
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	23	S15		159 <td>222</td> <td>111</td> <td>7</td> <td>15</td> <td colspan="6"></td>	222					111	7	15				
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD4-P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
		STD	0000	0016	3281	2635	0016826	0000	14470														
	182	OBS	0000	0016	32806	2635			14470														
		STD	0010	0010	3280	2635	0016841	0016	14469														
		OBS	0010	0010	32800	2635			14469														
		STD	0020	0006	3281	2636	0016756	0033	14469														
	001	OBS	0020	0006	32808	2636			14469														
		OBS	0025	0006	32813	2636			14469														
		STD	0030	0005	3281	2636	0016726	0050	14470														
		OBS	0030	0005	32811	2636			14470														
		STD	0050	0004	3281	2636	0016710	0083	14473														
		OBS	0050	0004	32812	2636			14473														
		STD	0075	0000	3289	2643	0016086	0124	14476														
		OBS	0075	0000	32890	2643			14476														
		STD	0100	0001	3297	2649	0015491	0164	14482														
		OBS	0100	0001	32968	2649			14482														
		OBS	0106	0001	32987	2650			14483														
		STD	0125	0054	3357	2695	0011162	0197	14518														
		OBS	0125	0054	33572	2695			14518														
		STD	0150	0099	3384	2714	0009358	0223	14547														
		OBS	0150	0099	33845	2714			14547														
		STD	0200	0162	3412	2732	0007704	0265	14587														
		OBS	0200	0162	34122	2732			14587														
		OBS	0220	0171	34190	2737			14595														
		STD	0250	0270	3448	2752	0005910	0299	14647														
		OBS	0250	0270	34480	2752			14647														
		OBS	0255	0284	34518	2754			14655														

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUFF INDEX	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER				
						10"	1"	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
						WATER		WIND		SPEED OR FORCE														AIR TEMP. °C	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
						COLOR CODE	TRANS. (m)	DIR.	BARO- METER (mbs)																		
318039	EV	44359N	049080W	149	49	04	04	185	1968	001	10057	0750	1	24	2	2		X2	0	3		0018					
						DT	SD	24	S14	220	022	011	7	24													
MESSENGR 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	PD ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si D ₄ -Si μg - ml/l	pH											
		STD	0000	0024	3278	2633	0017034	0000	14473																		
185		OBS	0000	0024	32783	2633			14473																		
		STD	0010	0017	3278	2633	0017022	0017	14472																		
		OBS	0010	0017	32780	2633			14472																		
		STD	0020	0006	3280	2635	0016838	0034	14468																		
002		OBS	0020	0006	32798	2635			14468																		
		OBS	0025	0017	32811	2636			14474																		
		STD	0030	0035	3282	2635	0016783	0050	14484																		
		OBS	0030	0035	32822	2635			14484																		
		STD	0050	0029	3282	2636	0016741	0084	14484																		
		OBS	0050	0029	32823	2636			14484																		
		OBS	0068	0029	32835	2637			14487																		
		OBS	0073	0014	32847	2639			14481																		
		STD	0075	0014	3288	2641	0016234	0125	14482																		
		OBS	0075	0014	32879	2641			14482																		
		OBS	0086	0013	32884	2642			14484																		
		STD	0100	-0007	3306	2657	0014730	0164	14479																		
		OBS	0100	-0007	33062	2657			14479																		
		OBS	0106	-0007	33189	2667			14482																		
		OBS	0120	0057	33604	2697			14519																		
		STD	0125	0063	3363	2699	0010813	0196	14523																		
		OBS	0125	0063	33625	2699			14523																		
		STD	0150	0097	3384	2714	0009348	0221	14546																		
		OBS	0150	0097	33845	2714			14546																		
		OBS	0170	0157	34048	2726			14579																		
		STD	0200	0180	3417	2734	0007488	0263	14595																		
		OBS	0200	0180	34168	2734			14595																		
		STD	0250	0237	3435	2744	0006581	0298	14631																		
		OBS	0250	0237	34352	2744			14631																		
		STD	0300	0309	3453	2753	0005898	0329	14673																		
		OBS	0300	0309	34533	2753			14673																		
		STD	0400	0397	3476	2762	0005151	0385	14730																		
		OBS	0400	0397	34763	2762			14730																		
		STD	0500	0420	3484	2766	0004932	0435	14757																		
		OBS	0500	0420	34840	2766			14757																		
		STD	0600	0422	3486	2767	0004917	0484	14775																		
		OBS	0600	0422	34858	2767			14775																		
		STD	0700	0422	3487	2768	0004899	0533	14792																		
		OBS	0700	0422	34874	2768			14792																		
		OBS	0718	0420	34873	2769			14794																		

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 S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			OBSERVATIONS					TYPE	AMT	
																DIR.	HGT	PER	SEA				
318039		EV	44355N	049043W		149	49	04	04	193	1968	001	10058	1240	1	24	2	2		X1	0	3	0019
						WATER		WIND		AIR TEMP. °C													
						COLOR	TRANS.	DIR.	SPEED OR FORCE	BARO- METER (mbs)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						CODE	SD	24	S14	220	360	340	7	26									
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O 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 ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH					
		STD	0000	0020	3280	2634		0016889		0000	14472												
193		OBS	0000	0020	32800	2634					14472												
		STD	0010	0014	3280	2635		0016859		0016	14470												
		OBS	0010	0014	32800	2635					14470												
		STD	0020	0005	3282	2637		0016666		0033	14468												
002		OBS	0020	0005	32819	2637					14468												
		OBS	0025	0004	32819	2637					14469												
		STD	0030	0000	3283	2638		0016526		0050	14468												
		OBS	0030	0000	32835	2638					14468												
		STD	0050	0002	3291	2644		0015950		0082	14473												
		OBS	0050	0002	32910	2644					14473												
		STD	0075	-0006	3315	2664		0014079		0120	14477												
		OBS	0075	-0006	33150	2664					14477												
		STD	0100	0006	3346	2688		0011764		0152	14491												
		OBS	0100	0006	33460	2688					14491												
		OBS	0110	0020	33600	2699					14501												
		STD	0125	0085	3398	2726		0008242		0177	14538												
		OBS	0125	0085	33980	2726					14538												
		STD	0150	0101	3402	2728		0008061		0197	14550												
		OBS	0150	0101	3382P	2712P																	
		OBS	0187	0144	34075	2729					14576												
		STD	0200	0205	3426	2740		0006988		0235	14608												
		OBS	0200	0205	34260	2740					14608												
		STD	0250	0295	3452	2753		0005818		0267	14659												
		OBS	0250	0295	34522	2753					14659												
		STD	0300	0342	3465	2759		0005348		0295	14689												
		OBS	0300	0342	34649	2759					14689												
		OBS	0330	0361	34731	2763					14703												
		OBS	0350	0402	34786	2764					14724												
		STD	0400	0411	3483	2766		0004824		0346	14737												
		OBS	0400	0411	34827	2766					14737												
		OBS	0460	0420	34850	2767					14751												
		STD	0500	0442	3489	2768		0004797		0394	14767												
		OBS	0500	0442	34891	2768					14767												
		STD	0600	0431	3490	2770		0004689		0441	14779												
		OBS	0600	0431	34902	2770					14779												
		STD	0700	0429	3491	2771		0004680		0488	14795												
		OBS	0700	0429	34914	2771					14795												
		STD	0800	0427	3492	2772		0004687		0535	14811												
		OBS	0800	0427	34924	2772					14811												
		STD	0900	0410	3491	2773		0004678		0582	14820												
		OBS	0900	0410	34910	2773					14820												
		STD	1000	0400	3492	2775		0004553		0628	14833												
		OBS	1000	0400	34923	2775					14833												
		STD	1100	0397	3493	2775		0004567		0674	14849												
		OBS	1100	0397	34929	2775					14849												

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METERS	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT		
318039	EV	44348N	049011W	149	49	04	04	200	1968	001	10059	1207	1	24	2	2		X2	03		0020					
						WATER		WIND		AIR TEMP. °C																
						COLOR	TRANS.	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						01	SD	24	S14	220	022	011	7	20												

MESSAGE TIME HR 1/10	CST 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	DTN
		STD	0000	0022	3277	2632	0017125	0000	14472								
200		OBS	0000	0022	32771	2632			14472								
		STD	0010	0018	3275	2631	0017248	0017	14472								
		OBS	0010	0018	32751	2631			14472								
002		STD	0020	0007	3283	2637	0016611	0034	14469								
		OBS	0020	0007	32828	2637			14469								
		OBS	0025	0006	32848	2639			14470								
		STD	0030	0012	3286	2640	0016401	0050	14474								
		OBS	0030	0012	32858	2640			14474								
		STD	0050	-0008	3299	2651	0015270	0082	14470								
		OBS	0050	-0008	32993	2651			14470								
		STD	0075	-0010	3322	2670	0013500	0118	14476								
		OBS	0075	-0010	33223	2670			14476								
		STD	0100	0017	3363	2702	0010503	0148	14498								
		OBS	0100	0017	33633	2702			14498								
		STD	0125	0087	3385	2715	0009225	0172	14537								
		OBS	0125	0087	33853	2715			14537								
		STD	0150	0107	3392	2720	0008820	0195	14551								
		OBS	0150	0107	33923	2720			14551								
		STD	0200	0167	3417	2736	0007355	0235	14590								
		OBS	0200	0167	34173	2736			14590								
		STD	0250	0296	3457	2757	0005441	0267	14660								
		OBS	0250	0296	34573	2757			14660								
		STD	0300	0406	3477	2762	0005082	0294	14717								
		OBS	0300	0406	34773	2762			14717								
		STD	0400	0436	3486	2766	0004839	0343	14748								
		OBS	0400	0436	34863	2766			14748								
		STD	0500	0437	3488	2768	0004800	0392	14765								
		OBS	0500	0437	34883	2768			14765								
		STD	0600	0436	3491	2770	0004678	0439	14781								
		OBS	0600	0436	34912	2770			14781								
		STD	0700	0412	3490	2772	0004571	0485	14788								
		OBS	0700	0412	34902	2772			14788								
		STD	0800	0403	3490	2773	0004551	0531	14801								
		OBS	0800	0403	34903	2773			14801								
		STD	0900	0398	3490	2773	0004599	0577	14815								
		OBS	0900	0398	34902	2773			14815								
		STD	1000	0392	3490	2774	0004605	0623	14829								
		OBS	1000	0392	34903	2774			14829								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318039	EV	44343N	04858 W	149	48	04	04	205 1968	001	10060	1829	1	25	4	3		X2	7	8		0021
					WATER		WIND		AIR TEMP. °C												
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
								27	S10	244	017	006	7	09							

MESSAGE TIME HR 1/10	CST 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	DTN
		STD	0000	0013	3276	2632	0017125	0000	14468								
205		OBS	0000	0013	32960	2648Q											
205		OBS	0008	0014	32765	2632			14470								
		STD	0010	0012	3277	2632	0017113	0017	14469								
		STD	0020	0004	3277	2633	0017064	0034	14467								
205		OBS	0023	0001	32767	2633			14466								
		STD	0030	-0045	3283	2639	0016405	0050	14447								
205		OBS	0041	-0085													
		STD	0050	-0074	3299	2654	0014999	0082	14439								
205		OBS	0061	-0060	33086	2661			14449								
		STD	0075	-0043	3321	2670	0013484	0117	14461								
205		OBS	0081	-0035	33253	2673			14466								
		STD	0100	-0007	3337	2682	0012356	0150	14484								
205		OBS	0121	0031	33505	2691			14506								
		STD	0125	0043	3353	2692	0011419	0180	14513								
		STD	0150	0104	3368	2700	0010639	0207	14546								
205		OBS	0161	0123	32760	26250											
		STD	0200	0123	3397	2722	0008610	0255	14567								
205		OBS	T0241	0123	34186	2740			14577								

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	MARSEN	STATION	YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEA-	CLOUD	NODC
								CRUISE	STATION								
CTRY	NO.	CODE	1/10	1/10	10°	1°	MO	DAY	HR.1/10	NO.	NUMBER	TO	DIR.	HGT	PER	SEA	NUMBER

318039 EV 44325N 04849 W 149 48 04 230 1968 001 10061 2377 1 28 2 2 X2 7 8 0022

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	WET BULB		
			28 S10	244	033	017	7	14

MESSAGE	CAS	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Δ ρ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	1
TIME	NO.	TYPE					ANOMALY-210°	DYN. M. x 10 ³	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		°C
		STD	0000	-0003	3314	2663	0014219	0000	14466								
230		OBS	0000	-0003	33136	2663			14466								
230		OBS	0007	-0003	33129	2662			14467								
		STD	0010	-0011	3313	2663	0014189	0014	14464								
230		OBS	0019	-0027	33152	2665			14458								
		STD	0020	-0027	3316	2666	0013895	0028	14458								
		STD	0030	-0027	3327	2675	0013069	0041	14461								
230		OBS	0041	-0028	33372	2683			14464								
		STD	0050	-0021	3341	2685	0012042	0066	14469								
230		OBS	0073	-0004	33563	2697			14483								
		STD	0075	0002	3358	2698	0010820	0095	14487								
230		OBS	0086	0036	33691	2705			14505								
		STD	0100	0082	3387	2717	0009051	0120	14531								
		STD	0125	0158	3414	2733	0007545	0141	14573								
230		OBS	T0129	0170	34173	2735			14579								
		STD	0150	0229	3432	2742	0006725	0158	14611								
230		OBS	0166	0268	34414	2747			14632								
		STD	0200	0317	3455	2753	0005787	0190	14660								
		STD	0250	0372	3470	2760	0005247	0217	14694								
230		OBS	T0252	0374	34703	2760			14695								
		STD	0300	0403	3478	2763	0004981	0243	14716								
230		OBS	0333	0418	34819	2764			14729								
		STD	^400	0431	3481	2762	0005184	0294	14745								
		STD	^500	0437	3479	2760	0005462	0347	14764								
230		OBS	T^500	0437	34794	2760			14764								
		STD	^600	0418	3488	2769	0004706	0398	14774								
230		OBS	^678	0405	34917	2774			14781								
		STD	^700	0401	3491	2774	0004355	0443	14783								
		STD	^800	0385	3490	2774	0004357	0487	14793								
230		OBS	^859	0380	34899	2775			14801								
		STD	^900	0381	3490	2775	0004410	0530	14808								
		STD	^000	0382	3491	2775	0004440	0575	14825								
230		OBS	T^050	0383	34918	2776			14834								

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DRIFT INDIC	MARCOEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDBC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
318039	EV		44295N	04834 W		149	48	04	05	018	1968	001	10062	3383	1	27	1	2		X1	6	1	0023	
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
										27	S10	251	028	017	7	14								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	0581	3392	2675	0013070		0000	14729														
018		OBS	0000	0581	33923	2675				14729														
		STD	0010	0638	3403	2676	0012948		0013	14755														
018		OBS	0011	0645	34068	2678				14758														
		STD	0020	0912	3478	2695	0011220		0025	14872														
018		OBS	0025		35058																			
		STD	0030	1105	3517	2692	0011505		0036	14949														
018		OBS	0049	1177	35236	2683				14978														
		STD	0050	1150	3519	2685	0012226		0060	14968														
018		OBS	0074	0679	34402	2700				14787														
		STD	0075	0672	3440	2700	0010759		0088	14784														
018		OBS	0098	0560	34290	2706				14741														
		STD	0100	0568	3429	2705	0010285		0115	14745														
		STD	0125	0636	3432	2699	0010923		0141	14777														
018		OBS	0148	0641	3497P	2750P																		
		STD	0150	0632	3436	2703	0010632		0168	14780														
018		OBS	0197	0470	34454	2730				14723														
		STD	0200	0470	3447	2731	0007969		0215	14723														
		STD	0250	0467	3464	2745	0006698		0451	14733														
018		OBS	0296	0464	34752	2754				14741														
		STD	0300	0464	3476	2755	0005834		0283	14741														
018		OBS	T0396	0459	34850	2762				14756														
018		OBS	T0597	0459	34959	2771				14791														
		STD	0600	0459	3496	2771				14791														
		STD	0700	0442	3496	2773				14801														
018		OBS	T0791	0428	34959	2775				14810														
		STD	0800	0426	3496	2775				14811														
		STD	0900	0409	3495	2775				14821														
018		OBS	0999	0396	34937	2776				14831														
		STD	1000	0396	3494	2776				14832														
		STD	1100	0386	3493	2777				14844														
		STD	1200	0379	3493	2777				14858														
018		OBS	T1202	0379	34927	2777				14858														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	CHART 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	TYPE		AMT	
318039	EV		44265N	048173W		149	48	04	05	036	1968	001	10063	3475	1	27	1	2		X1	03		0024	
						WATER		WIND		SARD- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	SD	28	S10	251	039	017	7	34										
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 $\mu g - \text{el/l}$	TOTAL-P $\mu g - \text{el/l}$	NO ₃ -N $\mu g - \text{el/l}$	NO ₃ -N $\mu g - \text{el/l}$	SiO ₄ -Si $\mu g - \text{el/l}$	pH						
		STD	0000	1367	3580	2689	0011686		0000		15041													
	036	OBS	0000	1367	35801	2689					15041													
		STD	0010	1368	3580	2689	0011733		0011		15043													
		OBS	0010	1368	35802	2689					15043													
		STD	0020	1368	3580	2689	0011762		0023		15045													
	002	OBS	0020	1368	35802	2689					15045													
		OBS	0025	1368	35804	2689					15045													
		STD	0030	1368	3580	2689	0011773		0035		15046													
		OBS	0030	1368	35804	2689					15046													
		STD	0050	1368	3580	2689	0011830		0058		15049													
		OBS	0050	1368	35804	2689					15049													
		STD	0075	1367	3580	2689	0011893		0088		15053													
		OBS	0075	1367	35803	2689					15053													
		STD	0100	1318	3566	2689	0012019		0118		15039													
		OBS	0100	1318	35663	2689					15039													
		STD	0125	1187	3539	2693	0011616		0147		14996													
		OBS	0125	1187	35389	2693					14996													
		STD	0150	1092	3520	2697	0011328		0176		14964													
		OBS	0150	1092	35205	2697					14964													
		OBS	0160	1057	35233	2705					14954													
		OBS	0165	1087	35282	2704					14966													
		OBS	0180	0927	34936	2704					14906													
		OBS	0192	1034	35178	2705					14950													
		STD	0200	0997	3512	2707	0010480		0231		14937													
		OBS	0200	0997	35116	2707					14937													
		OBS	0235	0799	34843	2717					14865													
		STD	0250	0952	3518	2719	0009387		0280		14930													
		OBS	0250	0952	35178	2719					14930													
		OBS	0255	0952	35179	2719					14930													
		STD	0300	0824	3506	2730	0008370		0325		14888													
		OBS	0300	0824	35057	2730					14888													
		OBS	0335	0702	34928	2738					14845													
		OBS	0350	0746	35109	2746					14867													
		STD	0400	0492	3473	2749	0006453		0399		14769													
		OBS	0400	0492	34733	2749					14769													
		OBS	0420	0606	34940	2752					14821													
		STD	0500	0547	3496	2761	0005530		0459		14811													
		OBS	0500	0547	34963	2761					14811													
		STD	0600	0496	3497	2768	0004925		0511		14807													
		OBS	0600	0496	34975	2768					14807													
		STD	0700	0456	3495	2771	0004734		0559		14807													
		OBS	0700	0456	34951	2771					14807													
		STD	0800	0436	3495	2773	0004588		0606		14815													
		OBS	0800	0436	34951	2773					14815													
		STD	0900	0422	3494	2774	0004580		0652		14826													
		OBS	0900	0422	34943	2774					14826													
		STD	1000	0427	3497	2776	0004503		0697		14845													
		OBS	1000	0427	34975	2776					14845													
		STD	1100	0397	3495	2777	0004434		0742		14849													
		OBS	1100	0397	34947	2777					14849													
		STD	1200	0397	3495	2777	0004481		0786		14866													
		OBS	1200	0397	34953	2777					14866													
		STD	1300	0386	3495	2778	0004440		0831		14878													
		OBS	1300	0386	34952	2778					14878													
		STD	1400	0378	3495	2779	0004448		0875		14891													
		OBS	1400	0378	34948	2779					14891													
		STD	1500	0372	3495	2779	0004467		0920		14905													
		OBS	1500	0372	34947	2779					14905													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBSER INDEX	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ σ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - σt/l	TOTAL-P μg - σt/l	NO ₃ -N μg - σt/l	NO ₃ -N μg - σt/l	SIO ₂ -Si μg - σt/l	pH	S CC
		STO	0000	1388	3587	2690	0011605	0000	15049								
053		OBS	0000	1388	35870	2690			15049								
		STO	0010	1388	3587	2690	0011634	0011	15050								
		OBS	0010	1388	35870	2690			15050								
002		STO	0020	1388	3587	2690	0011663	0023	15052								
		OBS	0020	1388	35870	2690			15052								
		OBS	0025	1388	35870	2690			15053								
		STO	0030	1388	3587	2690	0011692	0034	15054								
		OBS	0030	1388	35870	2690			15054								
		STO	0050	1388	3587	2690	0011751	0058	15057								
		OBS	0050	1388	35869	2690			15057								
		STO	0075	1388	3587	2690	0011814	0087	15061								
		OBS	0075	1388	35871	2690			15061								
		STO	0100	1396	3588	2689	0011978	0117	15068								
		OBS	0100	1396	35881	2689			15068								
		STO	0125	1396	3588	2690	0012033	0147	15072								
		OBS	0125	1396	35883	2690			15072								
		OBS	0130	1277	35593	2692			15030								
		STO	0150	1242	3553	2694	0011677	0177	15020								
		OBS	0150	1242	35529	2694			15020								
		OBS	0165	1176	35401	2696			14999								
		OBS	0196	1158	35423	2702			14998								
		STO	0200	1117	3536	2705	0010725	0233	14983								
		OBS	0200	1117	35363	2705			14983								
		OBS	0211	1017	35218	2711			14947								
		STO	0250	0992	3517	2712	0010073	0285	14944								
		OBS	0250	0992	35175	2712			14944								
		OBS	0260	0952	35156	2717			14931								
		OBS	0285	0967	35243	2722			14942								
		STO	0300	0922	3520	2726	0008845	0332	14927								
		OBS	0300	0922	35200	2726			14927								
		OBS	0331	0884	35152	2728			14917								
		OBS	0363	0697	34912	2737			14848								
		STO	0400	0616	3482	2741	0007358	0413	14821								
		OBS	0400	0616	34819	2741			14821								
		OBS	0410	0586	34823	2745			14810								
		OBS	0450	0615	34973	2753			14830								
		OBS	0475	0536	34923	2759			14802								
		STO	0500	0557	3494	2758	0005837	0479	14815								
		OBS	0500	0557	34939	2758			14815								
		STO	0600	0487	3496	2768	0004903	0533	14803								
		OBS	0600	0487	34963	2768			14803								
		OBS	0665	0487	34971	2769			14814								
		STO	0700	0452	3495	2771	0004718	0581	14805								
		OBS	0700	0452	34946	2771			14805								
		STO	0800	0442	3495	2773	0004635	0628	14818								
		OBS	0800	0442	34955	2773			14818								
		STO	0900	0427	3496	2775	0004493	0673	14828								
		OBS	0900	0427	34963	2775			14828								
		STO	1000	0418	3496	2776	0004481	0718	14841								
		OBS	1000	0418	34963	2776			14841								
		STO	1100	0413	3496	2777	0004503	0763	14856								
		OBS	1100	0413	34965	2777			14856								
		STO	1200	0398	3496	2778	0004404	0808	14866								
		OBS	1200	0398	34965	2778			14866								
		STO	1300	0392	3495	2778	0004503	0852	14880								
		OBS	1300	0392	34954	2778			14880								
		STO	1400	0382	3495	2779	0004470	0897	14893								
		OBS	1400	0382	34953	2779			14893								
		STO	1500	0372	3495	2780	0004459	0942	14905								
		OBS	1500	0372	34948	2780			14905								

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	DATE MO DAY	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	IO. NO.					10°	1°	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318039	EV		44210N	047490W	149	47	04	05	068	1968	001	10065	3710	1	28	12	2		X2	0	3	0026
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB													
		DT	SD	28	S10	251			044	039	7	32										
MESSENGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S CC			
		STD	0000	1375	3582	2689	0011686		0000		15044											
068		OBS	0000	1375	35823	2689					15044											
		STD	0010	1373	3583	2690	0011643		0011		15045											
		OBS	0010	1373	35828	2690					15045											
		STD	0020	1375	3583	2690	0011663		0023		15047											
002		OBS	0020	1375	35834	2690					15047											
		OBS	0025	1377	35838	2690					15049											
		STD	0030	1378	3584	2690	0011710		0035		15050											
		OBS	0030	1378	35840	2690					15050											
		STD	0050	1377	3584	2690	0011759		0058		15053											
		OBS	0050	1377	35839	2690					15053											
		STD	0075	1363	3580	2690	0011856		0088		15052											
		OBS	0075	1363	35797	2690					15052											
		STD	0100	1355	3578	2690	0011917		0117		15053											
		OBS	0100	1355	35777	2690					15053											
		STD	0125	1347	3576	2690	0011968		0147		15054											
		OBS	0125	1347	35757	2690					15054											
		STD	0150	1329	3571	2690	0012007		0177		15052											
		OBS	0150	1329	35713	2690					15052											
		STD	0200	1201	3545	2696	0011595		0236		15014											
		OBS	0200	1201	35453	2696					15014											
		STD	0250	1052	3522	2705	0010769		0292		14966											
		OBS	0250	1052	35218	2705					14966											
		OBS	0280	1019	35315	2718					14961											
		STD	0300	0997	3526	2718	0009600		0343		14955											
		OBS	0300	0997	35265	2718					14955											
		OBS	0348	0901	35143	2725					14926											
		OBS	0350	0856	35101	2729					14909											
		OBS	0378	0817	35048	2731					14898											
		STD	0400	0653	3482	2736	0007840		0430		14835											
		OBS	0400	0653	34821	2736					14835											
		OBS	0410	0562	34803	2747					14800											
		OBS	0442	0636	34933	2747					14837											
		OBS	0459	0582	34905	2752					14818											
		STD	0500	0582	3492	2754	0006278		0501		14825											
		OBS	0500	0582	34923	2754					14825											
		STD	0600	0503	3496	2766	0005140		0558		14810											
		OBS	0600	0503	34958	2766					14810											
		STD	0700	0449	3492	2769	0004856		0608		14804											
		OBS	0700	0449	34923	2769					14804											
		STD	0800	0422	3492	2772	0004668		0655		14809											
		OBS	0800	0422	34918	2772					14809											
		STD	0900	0426	3495	2774	0004553		0702		14828											
		OBS	0900	0426	34953	2774					14828											
		STD	1000	0391	3492	2775	0004496		0747		14829											
		OBS	1000	0391	34916	2775					14829											
		STD	1100	0382	3491	2776	0004500		0792		14842											
		OBS	1100	0382	34913	2776					14842											
		STD	1200	0382	3492	2777	0004508		0837		14859											
		OBS	1200	0382	34924	2777					14859											
		STD	1300	0384	3493	2777	0004548		0882		14877											
		OBS	1300	0384	34934	2777					14877											
		STD	1400	0387	3494	2778	0004610		0928		14895											
		OBS	1400	0387	34942	2778					14895											
		STD	1500	0386	3495	2778	0004649		0974		14911											
		OBS	1500	0386	34947	2778					14911											

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MO	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO		OAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
318039	EV		44170N	047280W	149	47	04	05	086	1968	001	10066	4023	1	28	2	2		X2	0	3		0027	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. IMI	OIR.	SPEED OF FORCE	(mba)		DRY BULB	WET BULB												
					DT	S0	25	S10	244	056	044	7	35											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T		SPECIFIC VOLUME ANOMALY-310°		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					
		STD	0000	1396	3586	2688		0011813		0000	15051													
086		OBS	0000	1396	35863	2688					15051													
		STD	0010	1396	3586	2688		0011833		0011	15053													
		OBS	0010	1396	35864	2688					15053													
		STD	0020	1396	3586	2688		0011853		0023	15054													
002		OBS	0020	1396	35865	2688					15054													
		OBS	0025	1396	35866	2688					15055													
		STD	0030	1396	3587	2688		0011865		0035	15056													
		OBS	0030	1396	35868	2688					15056													
		STD	0050	1396	3587	2688		0011923		0059	15059													
		OBS	0050	1396	35868	2688					15059													
		STD	0075	1388	3586	2689		0011895		0089	15061													
		OBS	0075	1388	35860	2689					15061													
		STD	0100	1387	3585	2689		0012013		0119	15064													
		OBS	0100	1387	35851	2689					15064													
		STD	0125	1387	3585	2689		0012085		0149	15069													
		OBS	0125	1387	35851	2689					15069													
		OBS	0140	1367	35803	2689					15064													
		STD	0150	1264	3553	2690		0012053		0179	15028													
		OBS	0150	1264	35535	2690					15028													
		STD	0200	1160	3535	2695		0011616		0238	14998													
		OBS	0200	1160	35348	2695					14998													
		OBS	0221	1065	35229	2704					14966													
		STD	0250	1072	3525	2704		0010860		0294	14974													
		OBS	0250	1072	35253	2704					14974													
		OBS	0261	0988	35143	2710					14944													
		STD	0300	0967	3517	2716		0009780		0346	14943													
		OBS	0300	0967	35173	2716					14943													
		OBS	0330	0965	35208	2719					14948													
		OBS	0361	0885	35165	2729					14923													
		STD	0400	0807	3505	2732		0008352		0436	14898													
		OBS	0400	0807	35050	2732					14898													
		OBS	0430	0667	34879	2739					14847													
		OBS	0440	0682	34903	2739					14854													
		OBS	0445	0632	34863	2742					14835													
		OBS	0470	0615	34858	2744					14832													
		OBS	0475	0572	34845	2749					14816													
		STD	0500	0611	3495	2752		0006481		0511	14837													
		OBS	0500	0611	34947	2752					14837													
		STD	0600	0518	3494	2763		0005447		0570	14816													
		OBS	0600	0518	34942	2763					14816													
		STD	0700	0488	3496	2768		0005063		0623	14820													
		OBS	0700	0488	34959	2768					14820													
		STD	0800	0458	3496	2771		0004790		0672	14824													
		OBS	0800	0458	34961	2771					14824													
		STD	0900	0452	3497	2773		0004733		0720	14839													
		OBS	0900	0452	34973	2773					14839													
		STD	1000	0432	3497	2775		0004586		0766	14847													
		OBS	1000	0432	34972	2775					14847													
		STD	1100	0424	3497	2776		0004567		0812	14860													
		OBS	1100	0424	34975	2776					14860													
		STD	1200	0412	3497	2777		0004550		0858	14872													
		OBS	1200	0412	34969	2777					14872													
		STD	1300	0397	3496	2778		0004544		0903	14882													
		OBS	1300	0397	34956	2778					14882													
		STD	1400	0387	3495	2778		0004566		0949	14895													
		OBS	1400	0387	34948	2778					14895													
		STD	1500	0386	3495	2778		0004605		0994	14911													
		OBS	1500	0386	34953	2778					14911													

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INDEX	M/RSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C														VIS. CODE	
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
DT	SD	25	S10	227	056	044	7	31																
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C							
106		STD	0000	1372	3581	2689	0011741	0000	15043															
		OBS	0000	1372	35808	2689			15043															
002		STD	0010	1372	3581	2689	0011751	0011	15044															
		OBS	0010	1372	35810	2689			15044															
		STD	0020	1372	3581	2689	0011771	0023	15046															
		OBS	0020	1372	35811	2689			15046															
		STD	0030	1373	3581	2689	0011809	0035	15048															
		OBS	0030	1373	35813	2689			15048															
		STD	0050	1373	3581	2689	0011858	0059	15051															
		OBS	0050	1373	35814	2689			15051															
		STD	0075	1373	3581	2689	0011930	0088	15055															
		OBS	0075	1373	35814	2689			15055															
		STD	0100	1373	3581	2689	0012001	0118	15059															
		OBS	0100	1373	35814	2689			15059															
		STD	0125	1368	3580	2689	0012063	0148	15062															
		OBS	0125	1368	35801	2689			15062															
		STD	0150	1357	3577	2689	0012131	0178	15062															
		OBS	0150	1357	35772	2689			15062															
		STD	0200	1324	3569	2689	0012234	0239	15058															
		OBS	0200	1324	35687	2689			15058															
		OBS	0237	1267	35543	2690			15043															
		OBS	0246	1166	35355	2695			15008															
		STD	0250	1162	3535	2696	0011722	0299	15007															
		OBS	0250	1162	35355	2696			15007															
		OBS	0270	1158	35393	2699			15009															
		STD	0300	1099	3534	2706	0010811	0356	14993															
		OBS	0300	1099	35340	2706			14993															
		OBS	0370	0937	35163	2720			14944															
		STD	0400	0730	3488	2730	0008447	0452	14866															
		OBS	0400	0730	34883	2730			14866															
		OBS	0409	0714	34894	2734			14862															
		OBS	0425	0767	35032	2737			14887															
		STD	0500	0647	3496	2748	0006853	0528	14851															
		OBS	0500	0647	34963	2748			14851															
		STD	0600	0534	3495	2761	0005603	0591	14822															
		OBS	0600	0534	34948	2761			14822															
		OBS	0650	0536	34996	2765			14832															
		STD	0700	0504	3497	2766	0005214	0645	14827															
		OBS	0700	0504	34966	2766			14827															
		STD	0800	0475	3497	2770	0004956	0696	14831															
		OBS	0800	0475	34967	2770			14831															
		STD	0900	0452	3497	2773	0004750	0744	14839															
		OBS	0900	0452	34970	2773			14839															
		STD	1000	0429	3496	2775	0004632	0791	14846															
		OBS	1000	0429	34961	2775			14846															
		STD	1100	0418	3496	2776	0004569	0837	14858															
		OBS	1100	0418	34964	2776			14858															
		STD	1200	0416	3498	2777	0004535	0883	14874															
		OBS	1200	0416	34978	2777			14874															
		STD	1300	0409	3497	2778	0004590	0928	14888															
		OBS	1300	0409	34971	2778			14888															
		STD	1400	0398	3496	2778	0004611	0974	14900															
		OBS	1400	0398	34961	2778			14900															
		STD	1500	0392	3496	2779	0004627	1020	14914															
		OBS	1500	0392	34961	2779			14914															

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		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPL	AMT	

318039	EV		4406 N	046275W		149	46	04	05	135	1968	001	10068	4023	1	24	3	5		X2	0	3		0029
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIR. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

				186	101	089	3	34	
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MESSENGER TIME HR 1/10	CST or ND.	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 $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
		STD	0000	1297	3564	2691	0011515	0000	15016								
135		OBS	0000	1297	35638	2691			15016								
		STD	0010	1297	3564	2691	0011542	0011	15017								
		OBS	0010	1297	35638	2691			15017								
		STD	0020	1297	3564	2691	0011570	0023	15019								
002		OBS	0020	1297	35638	2691			15019								
		STD	0030	1297	3564	2691	0011597	0034	15021								
		OBS	0030	1297	35638	2691			15021								
		STD	0050	1297	3564	2691	0011652	0057	15024								
		OBS	0050	1297	35638	2691			15024								
		STD	0075	1291	3563	2691	0011702	0087	15026								
		OBS	0075	1291	35625	2691			15026								
		STD	0100	1291	3563	2691	0011770	0116	15030								
		OBS	0100	1291	35625	2691			15030								
		OBS	0111	1230	35482	2692			15009								
		STD	0125	1227	3548	2693	0011707	0145	15010								
		OBS	0125	1227	35478	2693			15010								
		STD	0150	1228	3548	2693	0011754	0175	15015								
		OBS	0150	1228	35482	2693			15015								
		STD	0200	1247	3555	2694	0011756	0233	15030								
		OBS	0200	1247	35549	2694			15030								
		STD	0250	1240	3554	2695	0011821	0292	15036								
		OBS	0250	1240	35540	2695			15036								
		OBS	0266	1207	35473	2696			15027								
		OBS	0271	1052	35198	2703			14970								
		STD	0300	1012	3518	2709	0010455	0348	14960								
		OBS	0300	1012	35183	2709			14960								
		OBS	0340	0965	35152	2715			14949								
		OBS	0360	0837	35008	2724			14903								
		OBS	0378	0838	35023	2725			14906								
		STD	0400	0812	3497	2725	0008993	0445	14899								
		OBS	0400	0812	34973	2725			14899								
		OBS	0420	0740	34952	2734			14874								
		OBS	0430	0768	35017	2735			14888								
		OBS	0454	0697	34958	2741			14863								
		OBS	0470	0702	34976	2742			14868								
		STD	0500	0622	3492	2748	0006816	0524	14841								
		OBS	0500	0622	34922	2748			14841								
		STD	0600	0529	3491	2759	0005802	0587	14820								
		OBS	0600	0529	34913	2759			14820								
		STD	0700	0479	3490	2764	0005360	0643	14816								
		OBS	0700	0479	34904	2764			14816								
		STD	0800	0445	3492	2770	0004926	0695	14818								
		OBS	0800	0445	34921	2770			14818								
		STD	0900	0445	3495	2772	0004815	0743	14835								
		OBS	0900	0445	34950	2772			14835								
		STD	1000	0438	3496	2774	0004724	0791	14849								
		OBS	1000	0438	34964	2774			14849								
		STD	1100	0431	3497	2775	0004700	0838	14863								
		OBS	1100	0431	34968	2775			14863								
		STD	1200	0426	3497	2776	0004705	0885	14878								
		OBS	1200	0426	34973	2776			14878								
		STD	1300	0416	3497	2777	0004709	0932	14891								
		OBS	1300	0416	34968	2777			14891								
		STD	1400	0396	3495	2777	0004675	0979	14899								
		OBS	1400	0396	34949	2777			14899								
		STD	1500	0384	3494	2778	0004642	1026	14910								
		OBS	1500	0384	34944	2778			14910								

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT	

318039	EV	4343 N	04516 W	149	35	04	06	205	1968	001	10069		3567	1	25	5	2		X2	0	3	0030
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WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	

DT	SD	28	S18	125	139	133	6	36	
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MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ OYN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C
		STD	0000	1157	3524	2688	0011849	0000	14963								
205		OBS	0000	1157	35241	2688			14963								
		STD	0010	1157	3524	2688	0011874	0011	14965								
		OBS	0010	1157	35241	2688			14965								
		STD	0020	1157	3524	2688	0011899	0023	14966								
002		OBS	0020	1157	35241	2688			14966								
		STD	0030	1157	3524	2688	0011906	0035	14968								
		OBS	0030	1157	35243	2688			14968								
		OBS	0040	1157	35259	2689			14970								
		STD	0050	1190	3538	2692	0011552	0059	14984								
		OBS	0050	1190	35379	2692			14984								
		STD	0075	1206	3543	2693	0011528	0088	14994								
		OBS	0075	1206	35431	2693			14994								
		STD	0100	1208	3544	2693	0011584	0116	14999								
		OBS	0100	1208	35437	2693			14999								
		STD	0125	1208	3544	2693	0011639	0145	15003								
		OBS	0125	1208	35439	2693			15003								
		STD	0150	1205	3543	2693	0011694	0175	15006								
		OBS	0150	1205	35432	2693			15006								
		STD	0200	1136	3535	2700	0011183	0232	14990								
		OBS	0200	1136	35347	2700			14990								
		OBS	0223	1107	35318	2703			14983								
		OBS	0238	1116	35373	2706			14989								
		STD	0250	1096	3534	2707	0010620	0286	14984								
		OBS	0250	1096	35343	2707			14984								
		STD	0300	0982	3519	2715	0009915	0338	14949								
		OBS	0300	0982	35188	2715			14949								
		OBS	0380	0777	34930	2727			14882								
		STD	0400	0786	3500	2731	0008414	0429	14890								
		OBS	0400	0786	34998	2731			14890								
		OBS	0420	0737	34913	2732			14873								
		OBS	0431	0624	34773	2736			14828								
		OBS	0440	0672	34923	2742			14851								
		OBS	0477	0471	34628	2744			14772								
		STD	0500	0526	3477	2749	0006678	0505	14800								
		OBS	0500	0526	34773	2749			14800								
		OBS	0520	0575	34893	2752			14825								
		OBS	0550	0534	34853	2754			14813								
		STD	0600	0529	3491	2759	0005847	0567	14820								
		OBS	0600	0529	34907	2759			14820								
		OBS	0661	0528	34972	2764			14830								
		STD	0700	0470	3491	2766	0005185	0623	14812								
		OBS	0700	0470	34913	2766			14812								
		STD	0800	0459	3496	2772	0004766	0672	14825								
		OBS	0800	0459	34965	2772			14825								
		STD	0900	0436	3494	2772	0004805	0720	14832								
		OBS	0900	0436	34936	2772			14832								
		STD	1000	0412	3493	2774	0004626	0767	14838								
		OBS	1000	0412	34933	2774			14838								
		STD	1100	0415	3494	2774	0004702	0814	14856								
		OBS	1100	0415	34941	2774			14856								
		STD	1200	0413	3495	2776	0004685	0861	14872								
		OBS	1200	0413	34953	2776			14872								
		OBS	1229	0374	34893	2775			14860								
		STD	1300	0372	3490	2776	0004634	0907	14871								
		OBS	1300	0372	34901	2776			14871								
		STD	1400	0387	3493	2777	0004680	0954	14895								
		OBS	1400	0387	34933	2777			14895								
		STD	1500	0382	3494	2778	0004652	1001	14910								
		OBS	1500	0382	34939	2778			14910								

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
					10°	1°	MO	DAY	HR.1/10													
318039	EV	4338 N	04453 W	149	34	04	06	230	1968	001	10070	4645	1	27	3	2		X6	0	3		0031
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
					DT	SD	30	520	142	100	083	6	32									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
234		STD	0000	1142	3520	2687	0011885	0000	14957													
		OBS	0000	1142	35199	2687			14957													
		STD	0010	1142	3520	2687	0011901	0011	14959													
002		OBS	0010	1142	35201	2687			14959													
		STD	0020	1142	3520	2687	0011926	0023	14960													
		OBS	0020	1142	35201	2687			14960													
		STD	0030	1137	3519	2687	0011932	0035	14960													
		OBS	0030	1137	35191	2687			14960													
		STD	0050	1132	3518	2688	0011971	0059	14962													
		OBS	0050	1132	35180	2688			14962													
		STD	0075	1127	3516	2687	0012058	0089	14964													
		OBS	0075	1127	35165	2687			14964													
		STD	0100	1122	3515	2687	0012118	0119	14966													
		OBS	0100	1122	35153	2687			14966													
		STD	0125	1103	3510	2687	0012210	0150	14963													
		OBS	0125	1103	35103	2687			14963													
		STD	0150	1067	3503	2688	0012195	0180	14953													
		OBS	0150	1067	35028	2688			14953													
		OBS	0158	1048	35013	2690			14947													
		OBS	0172	1176	35363	2694			14999													
		OBS	0175	1167	35353	2694			14996													
		STD	0200	1067	3518	2700	0011174	0239	14963													
		OBS	0200	1067	35183	2700			14963													
		OBS	0245	0997	35143	2709			14945													
		STD	0250	0878	3492	2711	0010096	0292	14899													
		OBS	0250	0878	34923	2711			14899													
		OBS	0270	0827	34852	2714			14882													
		OBS	0290	0936	35148	2719			14930													
		STD	0300	0917	3511	2720	0009435	0341	14924													
		OBS	0300	0917	35109	2720			14924													
		STD	0400	0657	3477	2732	0008247	0429	14836													
		OBS	0400	0657	34773	2732			14836													
		OBS	0410	0606	34903	2749			14819													
		OBS	0425	0662	35023	2751			14846													
		STD	0500	0572	3489	2752	0006374	0502	14820													
		OBS	0500	0572	34893	2752			14820													
		STD	0600	0497	3489	2762	0005551	0562	14806													
		OBS	0600	0497	34893	2762			14806													
		STD	0700	0480	3494	2767	0005086	0615	14817													
		OBS	0700	0480	34943	2767			14817													
		STD	0800	0466	3495	2770	0004939	0665	14828													
		OBS	0800	0466	34954	2770			14828													
		STD	0900	0436	3494	2772	0004752	0714	14832													
		OBS	0900	0436	34943	2772			14832													
		STD	1000	0416	3492	2773	0004751	0761	14840													
		OBS	1000	0416	34923	2773			14840													
		STD	1100	0390	3489	2773	0004743	0809	14845													
		OBS	1100	0390	34893	2773			14845													
		STD	1200	0387	3491	2775	0004646	0856	14861													
		OBS	1200	0387	34913	2775			14861													
		STD	1300	0387	3492	2776	0004663	0902	14878													
		OBS	1300	0387	34923	2776			14878													
		STD	1400	0386	3493	2777	0004668	0949	14894													
		OBS	1400	0386	34933	2777			14894													
		STD	1500	0380	3493	2777	0004707	0996	14909													
		OBS	1500	0380	34928	2777			14909													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT 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		TYPE	AMT	
318039	EV	4332 N	04700 W	149	37	04	07	081	1968	001	10071	4151	1	28	4	2			X1	0	3		0032
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS.	DIR.	SPEED OR FORCE	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB														
DT	SD	31	S16	166	039	022	7	32															
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 $\mu g - \sigma_l/l$	TOTAL-P $\mu g - \sigma_l/l$	NO ₂ -N $\mu g - \sigma_l/l$	NO ₃ -N $\mu g - \sigma_l/l$	SiO ₄ -Si $\mu g - \sigma_l/l$	pH	COND						
		STD	0000	1576	3620	2674	0013106	0000	15112														
	081	OBS	0000	1576	36201	2674			15112														
		STD	0010	1582	3621	2673	0013229	0013	15116														
		OBS	0010	1582	36206	2673			15116														
		STD	0020	1582	3620	2673	0013288	0026	15118														
	003	OBS	0020	1582	36203	2673			15118														
		STD	0030	1582	3621	2674	0013275	0039	15119														
		OBS	0030	1582	36209	2674			15119														
		STD	0050	1582	3621	2674	0013321	0066	15123														
		OBS	0050	1582	36212	2674			15123														
		STD	0075	1572	3620	2675	0013283	0099	15123														
		OBS	0075	1572	36198	2675			15123														
		STD	0100	1448	3590	2680	0012899	0132	15085														
		OBS	0100	1448	35900	2680			15085														
		STD	0125	1397	3579	2682	0012719	0164	15071														
		OBS	0125	1397	35792	2682			15071														
		STD	0150	1347	3567	2684	0012652	0196	15057														
		OBS	0150	1347	35673	2684			15057														
		STD	0200	1282	3557	2689	0012255	0258	15043														
		OBS	0200	1282	35573	2689			15043														
		OBS	0235	1127	35253	2694			14991														
		STD	0250	1190	3547	2699	0011375	0317	15018														
		OBS	0250	1190	35473	2699			15018														
		STD	0300	1084	3533	2708	0010605	0372	14988														
		OBS	0300	1084	35332	2708			14988														
		STD	0400	0787	3495	2728	0008774	0469	14889														
		OBS	0400	0787	34952	2728			14889														
		OBS	0460	0666	34903	2741			14851														
		OBS	0487	0727	35073	2746			14882														
		STD	0500	0627	3492	2748	0006875	0547	14843														
		OBS	0500	0627	34923	2748			14843														
		OBS	0520	0566	34883	2752			14821														
		OBS	0550	0642	35043	2755			14859														
		STD	0600	0498	3484	2757	0005937	0611	14806														
		OBS	0600	0498	34843	2757			14806														
		OBS	0612	0536	34953	2762			14825														
		OBS	0635	0466P	34933	2768P																	
		OBS	0650	0517	34954	2764			14824														
		STD	0700	0518	3499	2767	0005193	0667	14833														
		OBS	0700	0518	34993	2767			14833														
		STD	0800	0479	3497	2770	0004955	0717	14833														
		OBS	0800	0479	34974	2770			14833														
		STD	0900	0462	3497	2772	0004852	0766	14843														
		OBS	0900	0462	34973	2772			14843														
		STD	1000	0447	3498	2774	0004701	0814	14853														
		OBS	1000	0447	34982	2774			14853														
		STD	1100	0422	3495	2774	0004721	0861	14859														
		OBS	1100	0422	34950	2774			14859														
		STD	1200	0427	3497	2776	0004708	0908	14878														
		OBS	1200	0427	34974	2776			14878														
		STD	1300	0407	3495	2776	0004681	0955	14887														
		OBS	1300	0407	34955	2776			14887														
		STD	1400	0393	3495	2778	0004630	1002	14897														
		OBS	1400	0393	34950	2778			14897														
		STD	1500	0389	3495	2778	0004695	1049	14913														
		OBS	1500	0389	34946	2778			14913														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE MO DAY HR 1/10	MARSDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318039	EV	4330 N	04800 W	149	38	04	07	128	1968	001	10072	3720	1	28	3	2		X2	0	3	0033		
		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																		
DT	SD	28	S22	200	044	017	6	30															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C						
		STD	0000	0451	3329	2640	0016382	0000	14667														
	128	OBS	0000	0451	33292	2640			14667														
		STD	0010	0450	3329	2640	0016373	0016	14668														
		OBS	0010	0450	33292	2640			14668														
		STD	0020	0450	3329	2640	0016382	0032	14670														
	002	OBS	0020	0450	33292	2640			14670														
		STD	0030	0443	3329	2641	0016326	0049	14669														
		OBS	0030	0443	33291	2641			14669														
		OBS	0045	0337	33593	2675			14630														
		STD	0050	0336	3367	2682	0012452	0077	14632														
		OBS	0050	0336	33673	2682			14632														
		OBS	0070	0325	33996	2708			14635														
		STD	0075	0329	3400	2709	0009902	0105	14637														
		OBS	0075	0329	34005	2709			14637														
		OBS	0090	0306	34107	2719			14631														
		STD	0100	0310	3425	2730	0007876	0128	14637														
		OBS	0100	0310	34253	2730			14637														
		STD	0125	0419	3453	2742	0006845	0146	14691														
		OBS	0125	0419	34533	2742			14691														
		OBS	0142	0397	34514	2742			14684														
		STD	0150	0507	3467	2743	0006820	0163	14733														
		OBS	0150	0507	34668	2743			14733														
		OBS	0155	0537	34713	2743			14747														
		OBS	0164	0392	34616	2751			14687														
		STD	0200	0485	3482	2757	0005465	0194	14735														
		OBS	0200	0485	34823	2757			14735														
		OBS	0245	0507	34953	2765			14753														
		STD	0250	0508	3488	2759	0005347	0221	14753														
		OBS	0250	0508	34883	2759			14753														
		STD	0300	0485	3489	2763	0005059	0247	14752														
		OBS	0300	0485	34893	2763			14752														
		OBS	0326	0478	34929	2767			14754														
		OBS	0336	0498	34963	2767			14764														
		STD	0400	0474	3493	2768	0004733	0296	14764														
		OBS	0400	0474	34935	2768			14764														
		STD	0500	0474	3498	2771	0004496	0342	14782														
		OBS	0500	0474	34982	2771			14782														
		OBS	0540	0474	34979	2771			14788														
		OBS	0555	0458	34979	2773			14784														
		STD	0600	0449	3497	2773	0004385	0386	14788														
		OBS	0600	0449	34972	2773			14788														
		STD	0700	0427	3496	2775	0004311	0430	14795														
		OBS	0700	0427	34961	2775			14795														
		STD	0800	0418	3496	2776	0004305	0473	14808														
		OBS	0800	0418	34960	2776			14808														
		STD	0900	0407	3495	2776	0004361	0516	14820														
		OBS	0900	0407	34948	2776			14820														
		OBS	0950	0397	34944	2777			14824														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318039	EV	4314 N	050201W	150	30	04	08	005	1968	001	10073	0058	1	24	2	2		X1	0	3	0034	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIE CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB														
		DT	SD	23	S14	193	044	020	7	07												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH					
		STD	0000	0247	3300	2636	0016726		0000	14576												
	005	OBS	0000	0247	33005	2636				14576												
		STD	0010	0246	3300	2636	0016730		0016	14577												
		OBS	0010	0246	33005	2636				14577												
		STD	0020	0207	3299	2638	0016586		0033	14561												
	001	OBS	0020	0207	32986	2638				14561												
		OBS	0025	0207	33028	2641				14563												
		STD	0030	0207	3304	2642	0016200		0049	14564												
		OBS	0030	0207	33037	2642				14564												
		OBS	0035	0207	33040	2642				14565												
		STD	0050	0192	3305	2644	0015976		0082	14561												
		OBS	0050	0192	33053	2644				14561												

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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	

318039		EV	4300 N	05018 W		150	30	04	08 020	1968	001	10074	0073	1	24	2	2		X2	0 3		0035
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	24	S12	196	044	022	7	09	
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MESSENGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta \rho$ 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	SCC
		STD	0000	0162	3294	2637	0016609	0000	14538								
	020	OBS	0000	0162	32941	2637			14538								
		STD	0010	0162	3297	2640	0016384	0016	14540								
		OBS	0010	0162	32971	2640			14540								
	001	OBS	0017	0165	32981	2640			14542								
		STD	0020	0167	3298	2640	0016349	0032	14544								
		OBS	0020	0167	32981	2640			14544								
		OBS	0025	0172	32989	2641			14547								
		STD	0030	0179	3301	2642	0016225	0049	14551								
		OBS	0030	0179	33008	2642			14551								
		OBS	0040	0147	32985	2642			14538								
		STD	0050	0147	3300	2643	0016079	0081	14540								
		OBS	0050	0147	32999	2643			14540								
		OBS	0060	0134	32991	2643			14536								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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	

318039		EV	42495N	05017 W		150	20	04	08 028	1968	001	10075	0274	1	26	2	3		X2	0 3		0036
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	24	S06	200	039	022	7	13	
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MESSENGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta \rho$ 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	SCC
		STD	0000	0027	3277	2632	0017116	0000	14474								
	028	OBS	0000	0027	32775	2632			14474								
		STD	0010	0022	3277	2632	0017086	0017	14474								
		OBS	0010	0022	32775	2632			14474								
		STD	0020	0013	3281	2635	0016802	0034	14472								
	001	OBS	0020	0013	32807	2635			14472								
		OBS	0025	0017	32816	2636			14475								
		STD	0030	0002	3281	2636	0016716	0050	14468								
		OBS	0030	0002	32811	2636			14468								
		STD	0050	-0048	3290	2646	0015798	0083	14450								
		OBS	0050	-0048	32902	2646			14450								
		OBS	0055	-0013	32958	2649			14468								
		STD	0075	-0008	3325	2672	0013274	0119	14477								
		OBS	0075	-0008	33254	2672			14477								
		STD	0100	0016	3335	2679	0012678	0152	14494								
		OBS	0100	0016	33346	2679			14494								
		STD	0125	0036	3349	2689	0011660	0182	14509								
		OBS	0125	0036	33493	2689			14509								
		STD	0150	0052	3361	2698	0010816	0210	14522								
		OBS	0150	0052	33615	2698			14522								
		STD	0200	0168	3411	2731	0007815	0257	14589								
		OBS	0200	0168	34113	2731			14589								
		STD	0250	0297	3448	2749	0006179	0292	14659								
		OBS	0250	0297	34476	2749			14659								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318039	EV		4239 N	05016 W	150	20	04	08	041	1968	001	10076	1810	1	26	2	3		X1	0	3	0037			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	OIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	SD	24	S06		196	039				017	7	28							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH								
		STD	0000	0027	3280	2634	0016898		0000	14475															
	041	OBS	0000	0027	32803	2634				14475															
		STD	0010	0012	3282	2637	0016678		0016	14470															
		OBS	0010	0012	32823	2637				14470															
		STD	0020	0012	3291	2644	0015987		0033	14473															
	003	OBS	0020	0012	32913	2644				14473															
		OBS	0025	0027	32931	2645				14481															
		STD	0030	0057	3298	2647	0015717		0049	14496															
		OBS	0030	0057	32977	2647				14496															
		STD	0050	0196	3322	2657	0014756		0079	14565															
		OBS	0050	0196	33218	2657				14565															
		OBS	0061	0236	33313	2662				14585															
		STD	0075	0127	3326	2665	0013980		0115	14539															
		OBS	0075	0127	33259	2665				14539															
		OBS	0085	0230	33773	2699				14593															
		STD	0100	0157	3371	2700	0010741		0146	14562															
		OBS	0100	0157	33713	2700				14562															
		OBS	0105	0116	33683	2700				14545															
		STD	0125	0132	3394	2720	0008826		0170	14559															
		OBS	0125	0132	33943	2720				14559															
		STD	0150	0162	3413	2732	0007635		0191	14579															
		OBS	0150	0162	34129	2732				14579															
		STD	0200	0277	3439	2744	0006630		0227	14641															
		OBS	0200	0277	34388	2744				14641															
		STD	0250	0357	3461	2754	0005722		0257	14686															
		OBS	0250	0357	34614	2754				14686															
		STD	0300	0402	3475	2761	0005187		0285	14715															
		OBS	0300	0402	34753	2761				14715															
		STD	0400	0450	3488	2766	0004880		0335	14754															
		OBS	0400	0450	34878	2766				14754															
		STD	0500	0446	3492	2769	0004641		0383	14769															
		OBS	0500	0446	34918	2769				14769															
		STD	0600	0422	3490	2770	0004613		0429	14775															
		OBS	0600	0422	34899	2770				14775															
		STD	0700	0407	3490	2772	0004544		0475	14786															
		OBS	0700	0407	34898	2772				14786															
		STD	0800	0402	3490	2773	0004541		0520	14800															
		OBS	0800	0402	34903	2773				14800															
		STD	0900	0392	3490	2774	0004515		0565	14813															
		OBS	0900	0392	34903	2774				14813															
		STD	1000	0387	3491	2775	0004513		0611	14827															
		OBS	1000	0387	34908	2775				14827															
		OBS	1045	0383	34909	2775				14833															
		OBS	1088	0402	34938	2776				14849															
		OBS	1090	0382	34914	2776				14840															
		STD	1100	0382	3491	2776	0004491		0656	14842															
		OBS	1100	0382	34914	2776				14842															
		STD	1200	0383	3492	2776	0004538		0701	14859															
		OBS	1200	0383	34922	2776				14859															

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH 10 BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	4228 N	050145W	150	20	04	08	059	1968	001	10077	2834	1	26	2	2			X2	0	3	0038
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mbal)	DIRY BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB	WET BULB							
		DT	SD	26	507	196	039	017	7	41												
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 - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	σ _t °C					
		STD	0000	0077	3280	2632	0017152	0000	14498													
059		OBS	0000	0077	32803	2632			14498													
		STD	0010	0310	3314	2642	0016179	0016	14607													
		OBS	0010	0310	33145	2642			14607													
003		OBS	0015	0346	33203	2643			14624													
		STD	0020	0320	3318	2644	0015986	0032	14613													
		OBS	0020	0320	33183	2644			14613													
		OBS	0025	0457	33559	2660			14677													
		STD	0030	0747	3410	2667	0013888	0047	14802													
		OBS	0030	0747	3311P	2589P																
		OBS	0040	0906	34715	2691			14872													
		STD	0050	0878	3471	2694	0011313	0072	14863													
		OBS	0050	0878	34706	2694			14863													
		OBS	0055	0877	34708	2695			14864													
		OBS	0070	1040	35075	2696			14931													
		STD	0075	0967	3492	2697	0011141	0101	14903													
		OBS	0075	0967	34923	2697			14903													
		STD	0100	0816	3466	2700	0010828	0128	14847													
		OBS	0100	0816	34660	2700			14847													
		OBS	0121	0820	34675	2701			14852													
		STD	0125	0802	3466	2702	0010680	0155	14846													
		OBS	0125	0802	34658	2702			14846													
		OBS	0130	0804	34666	2703			14848													
		OBS	0143	0954	35028	2707			14911													
		STD	0150	0952	3503	2708	0010258	0181	14911													
		OBS	0150	0952	35032	2708			14911													
		OBS	0165	0928	35025	2711			14905													
		OBS	0180	0797	34838	2717			14856													
		OBS	0181	0642	34603	2721			14792													
		STD	0200	0634	3460	2721	0008937	0229	14792													
		OBS	0200	0634	34599	2721			14792													
		OBS	0207	0623	34598	2723			14789													
		OBS	0225	0797	34983	2729			14865													
		OBS	0240	0668	34773	2730			14814													
		STD	0250	0753	3501	2737	0007618	0270	14852													
		OBS	0250	0753	35006	2737			14852													
		OBS	0260	0776	35058	2738			14863													
		STD	0300	0647	3492	2745	0006851	0307	14818													
		OBS	0300	0647	34923	2745			14818													
		OBS	0365	0537	34883	2756			14784													
		STD	0400	0556	3495	2759	0005581	0369	14798													
		OBS	0400	0556	34954	2759			14798													
		OBS	0450	0495	34933	2765			14781													
		STD	0500	0505	3498	2767	0004899	0421	14794													
		OBS	0500	0505	34978	2767			14794													
		STD	0600	0446	3493	2770	0004675	0469	14786													
		OBS	0600	0446	34928	2770			14786													
		STD	0700	0427	3494	2773	0004462	0515	14795													
		OBS	0700	0427	34940	2773			14795													
		STD	0800	0436	3497	2774	0004473	0559	14815													
		OBS	0800	0436	34967	2774			14815													
		STD	0900	0418	3495	2775	0004455	0604	14824													
		OBS	0900	0418	34953	2775			14824													
		STD	1000	0417	3497	2777	0004390	0648	14841													
		OBS	1000	0417	34973	2777			14841													
		STD	1100	0386	3494	2777	0004361	0692	14844													
		OBS	1100	0386	34938	2777			14844													
		STD	1200	0387	3495	2778	0004372	0736	14861													
		OBS	1200	0387	34951	2778			14861													
		STD	1300	0392	3496	2779	0004441	0780	14880													
		OBS	1300	0392	34962	2779			14880													
		STD	1400	0389	3496	2779	0004502	0824	14896													
		OBS	1400	0389	34960	2779			14896													
		STD	1500	0386	3496	2779	0004535	0870	14912													
		OBS	1500	0386	34963	2779			14912													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS INDEX	MARSEN 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.						MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT													
318039	EV		4208 N	05012 W	150		20	04	08	1968	001	10078	3383	1	26	2	2		X2	0 3	0039												
						WATER		WIND		BARO-		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																		
		COLD CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mba)	DRY BULB	WET BULB	VIS CODE																								
		DT	SO	26	SO8	200	044	028	7	48																							
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si D ₄ -Si μg - ml/l	pH	Si CC																
		STD	0000	0183	3279	2624	0017903	0000	14545																								
083		OBS	0000	0183	32789	2624			14545																								
		STD	0010	0079	3276	2628	0017495	0017	14499																								
		OBS	0010	0079	32760	2628			14499																								
003		STD	0020	0096	3292	2640	0016381	0034	14511																								
		OBS	0020	0096	32918	2640			14511																								
		OBS	0025	0129	33003	2645			14528																								
		OBS	0028	0055	32975	2647			14495																								
		STD	0030	0134	3314	2655	0014918	0050	14533																								
		OBS	0030	0134	33141	2655			14533																								
		OBS	0035	-0050	33055	2658			14449																								
		OBS	0039	0086	33409	2680			14516																								
		OBS	0040	0038	33377	2680			14494																								
		OBS	0046	0051	33399	2681			14502																								
		STD	0050	0170	3369	2697	0010966	0076	14560																								
		OBS	0050	0170	33693	2697			14560																								
		OBS	0065	0513	34094	2696			14714																								
		OBS	0070	0395	33960	2699			14664																								
		STD	0075	0462	3408	2701	0010650	0103	14694																								
		OBS	0075	0462	34079	2701			14694																								
		OBS	0090	0501	34157	2703			14714																								
		STD	0100	0497	3416	2703	0010458	0129	14714																								
		OBS	0100	0497	34159	2703			14714																								
		OBS	0114	0455	34118	2705			14698																								
		OBS	0118	0572	34283	2704			14749																								
		STD	0125	0329	3404	2712	0009630	0154	14646																								
		OBS	0125	0329	34045	2712			14646																								
		OBS	0130	0390	34134	2713			14674																								
		OBS	0140	0347	34113	2716			14657																								
		OBS	0143	0440	34355	2725			14700																								
		STD	0150	0442	3437	2726	0008365	0177	14702																								
		OBS	0150	0442	34366	2726			14702																								
		OBS	0156	0407	34340	2728			14688																								
		OBS	0180	0568	34645	2733			14763																								
		OBS	0195	0502	34579	2736			14737																								
		STD	0200	0531	3465	2739	0007269	0216	14751																								
		OBS	0200	0531	34653	2739			14751																								
		OBS	0210	0445	34573	2742			14716																								
		OBS	0217	0485	34635	2742			14735																								
		OBS	0230	0475	34686	2748			14733																								
		OBS	0240	0525	34785	2750			14757																								
		OBS	0242	0488	34753	2751			14742																								
		STD	0250	0493	3476	2752	0006067	0249	14745																								
		OBS	0250	0493	34763	2752			14745																								
		OBS	0274	0497	34802	2754			14751																								
		OBS	0278	0572	34923	2755			14784																								
		STD	0300	0591	3498	2757	0005681	0279	14796																								
		OBS	0300	0591	34982	2757			14796																								
		OBS	0347	0545	34943	2760			14785																								
		OBS	0360	0462	34833	2761			14751																								
		STD	0400	0487	3490	2763	0005130	0333	14769																								
		OBS	0400	0487	34902	2763			14769																								
		STD	0500	0472	3495	2769	0004690	0382	14780																								
		OBS	0500	0472	34953	2769			14780																								
		STD	0600	0483	3499	2771	0004639	0428	14802																								
		OBS	0600	0483	34993	2771			14802																								
		STD	0700	0482	3503	2774	0004465	0474	14819																								
		OBS	0700	0482	35030	2774			14819																								
		STD	0800	0462	3500	2774	0004531	0519	14827																								
		OBS	0800	0462	35002	2774			14827																								
		OBS	0830	0452	34991	2774			14827																								
		OBS	0840	0425	34963	2775			14817																								
		STD	0900	0437	3499	2776	0004408	0564	14833																								
		OBS	0900	0437	34991	2776			14833																								
		STD	1000	0419	3496	2775	0004546	0608	14841																								
		OBS	1000	0419	34956	2775			14841																								
		STD	1100	0415	3497	2777	0004464	0653	14857																								
		OBS	1100	0415	34973	2777			14857																								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE INDIC	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	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318039	EV		41465N	05009 W	150	10	04	08	115	1968	001	10079	3750	1	26	2	2		X1	6	5		0040			
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																	
					26	S10	220	039	028	7	14															
MESSNGR TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	°C									
		STD	0000	0365	3305	2629	0017387	0000	14627																	
115		OBS	0000	0365	33048	2629			14627																	
115		OBS	0009	0366	33050	2629			14629																	
		STD	0010	0363	3305	2630	0017330	0017	14628																	
		STD	0020	0328	3311	2638	0016575	0034	14616																	
115		OBS	0024	0310	33146	2642			14609																	
		STD	0030	0256	3321	2652	0015245	0050	14588																	
115		OBS	0049	0148	33437	2678			14546																	
		STD	0050	0148	3345	2679	0012698	0078	14547																	
115		OBS	0073	0149	33759	2704			14555																	
		STD	0075	0179	3382	2707	0010071	0106	14569																	
115		OBS	0098	0425	34353	2727			14686																	
		STD	0100	0420	3435	2727	0008174	0129	14685																	
		STD	0125	0371	3438	2734	0007542	0149	14668																	
115		OBS	0147	0356	34420	2739			14666																	
		STD	0150	0362	3443	2740	0007037	0167	14669																	
		STD	0200	0440	3464	2748	0006361	0200	14713																	
115		OBS	T0206	0447	34658	2749			14718																	
		STD	0250	0483	3480	2756	0005674	0230	14742																	
115		OBS	0295	0507	34905	2761			14760																	
		STD	0300	0508	3491	2762	0005191	0258	14761																	
115		OBS	0393	0511	34990	2768			14779																	
		STD	0400	0509	3499	2768	0004730	0307	14780																	
		STD	0500	0485	3501	2772	0004437	0353	14787																	
115		OBS	0589	0466	35013	2775			14793																	
		STD	0600	0464	3501	2775	0004263	0397	14794																	
		STD	0700	0446	3500	2776	0004236	0439	14803																	
		STD	0800	0429	3499	2777	0004211	0481	14813																	
115		OBS	T0808	0428	34990	2777			14814																	
		STD	0900	0413	3498	2778	0004222	0523	14822																	
		STD	1000	0399	3496	2778	0004241	0566	14833																	
115		OBS	T1018	0397	34963	2778			14835																	
		STD	1100	0388	3496	2779	0004261	0608	14845																	
		STD	1200	0380	3495	2779	0004291	0651	14859																	
115		OBS	T1221	0379	34950	2779			14862																	

REFERENCE		SHIP		LATITUDE		LDNGITUDE		DEPTH INCHES	MARSON SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. ND.	SHIP CDDE	LATITUDE ° 1/10	LDNGITUDE ° 1/10	10"	1"	MO		DAY	HR./10	CRUISE NO.	STATION NUMBER		DIR.		HGT	PER		SEA	TYPE	AMT					
												WATER										WIND		SARD- METER (mbs)	AIR TEMP. °C	
									COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB												
318039	EV		4202 N	04800 W	149	28	04	08	195	1968	001	10080		3749	1	31	2	3		X1	0	3		0041		

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE °	LONGITUDE °	MARS DEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4203 N	04703 W	149	27 04 09 005	1968	001	10081	4300	1	34	2	4		X0	0	3	0042

WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
01	50	30	507	220	056	039	8	41	

MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	$\frac{1}{2}$ C
		STD	0000	0476	3328	2636	0016726	0000	14677								
005		OBS	0000	0476	33280	2636			14677								
		OBS	0008	0476	33281	2636			14679								
		STD	0010	0448	3328	2639	0016436	0016	14667								
003		OBS	0010	0448	33281	2639			14667								
		STD	0020	0456	3329	2639	0016436	0033	14672								
		OBS	0020	0456	33293	2639			14672								
		OBS	0025	0462	33383	2646			14677								
		STD	0030	0442	3339	2649	0015566	0049	14669								
		OBS	0030	0442	33391	2649			14669								
		STD	0050	0496	3364	2663	0014243	0078	14699								
		OBS	0050	0496	33645	2663			14699								
		STD	0075	0692	3415	2678	0012849	0112	14788								
		OBS	0075	0692	34151	2678			14788								
		OBS	0088	0431	33981	2697			14682								
		STD	0100	0467	3408	2701	0010685	0142	14701								
		OBS	0100	0467	34085	2701			14701								
		OBS	0120	0452	34111	2705			14698								
		STD	0125	0507	3422	2707	0010100	0168	14723								
		OBS	0125	0507	34225	2707			14723								
		OBS	0145	0628	34483	2713			14779								
		STD	0150	0517	3437	2718	0009176	0192	14733								
		OBS	0150	0517	34368	2718			14733								
		OBS	0168	0332	34167	2721			14656								
		OBS	0172	0370	34227	2722			14674								
		OBS	0180	0328	34198	2724			14657								
		OBS	0191	0512	34472	2726			14739								
		STD	0200	0357	3426	2727	0008318	0235	14673								
		OBS	0200	0357	34263	2727			14673								
		OBS	0205	0436	34412	2730			14709								
		OBS	0221	0368	34326	2730			14682								
		STD	0250	0527	3461	2736	0007579	0275	14757								
		OBS	0250	0527	34613	2736			14757								
		OBS	0253	0497	34603	2739			14745								
		OBS	0280	0517	34633	2739			14758								
		OBS	0289	0458	34602	2743			14735								
		STD	0300	0517	3472	2745	0006725	0311	14763								
		OBS	0300	0517	34720	2745			14763								
		OBS	0311	0582	34828	2746			14792								
		OBS	0340	0542	34801	2749			14781								
		OBS	0350	0592	34888	2750			14804								
		STD	0400	0556	3491	2756	0005913	0374	14798								
		OBS	0400	0556	34910	2756			14798								
		STD	0500	0516	3496	2765	0005163	0430	14799								
		OBS	0500	0516	34961	2765			14799								
		STD	0600	0506	3499	2768	0004948	0480	14811								
		OBS	0600	0506	34989	2768			14811								
		STD	0700	0472	3497	2771	0004760	0529	14814								
		OBS	0700	0472	34973	2771			14814								
		STD	0800	0462	3498	2773	0004673	0576	14826								
		OBS	0800	0462	34983	2773			14826								
		STD	0900	0447	3499	2775	0004544	0622	14837								
		OBS	0900	0447	34990	2775			14837								
		STD	1000	0427	3497	2776	0004503	0667	14845								
		OBS	1000	0427	34975	2776			14845								
		STD	1100	0407	3495	2776	0004496	0712	14853								
		OBS	1100	0407	34955	2776			14853								
		STD	1200	0406	3496	2777	0004524	0757	14869								
		OBS	1200	0406	34962	2777			14869								
		STD	1300	0397	3496	2778	0004536	0803	14882								
		OBS	1300	0397	34958	2778			14882								
		STD	1400	0388	3496	2779	0004525	0848	14895								
		OBS	1400	0388	34956	2779			14895								
		STD	1500	0385	3496	2779	0004567	0893	14911								
		OBS	1500	0385	34956	2779			14911								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	EPOCH 1/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	OAT	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		4203 N	04602 W		149	26	04	09	048	1968	001	10082	4651	1	28	2	2		X0	0	3	0043
		WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
		DT	SD	29	S17	220			7	32													
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TD1AL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S DU					
		STD	0000	1549	3617	2678	0012717	0000	15104														
		OBS	0000	1549	36174	2678			15104														
		STD	0010	1549	3617	2678	0012749	0012	15105														
		OBS	0010	1549	36174	2678			15105														
		STD	0020	1551	3618	2678	0012799	0025	15108														
		OBS	0020	1551	36178	2678			15108														
		OBS	0025	1551	36178	2678			15108														
		STD	0030	1551	3618	2678	0012831	0038	15109														
		OBS	0030	1551	36178	2678			15109														
		STD	0050	1551	3618	2678	0012894	0064	15113														
		OBS	0050	1551	36178	2678			15113														
		STD	0075	1551	3618	2678	0012973	0096	15117														
		OBS	0075	1551	36178	2678			15117														
		STD	0100	1551	3618	2678	0013043	0128	15121														
		OBS	0100	1551	36179	2678			15121														
		STD	0125	1552	3618	2678	0013140	0161	15125														
		OBS	0125	1552	36180	2678			15125														
		STD	0150	1553	3618	2678	0013227	0194	15130														
		OBS	0150	1553	36181	2678			15130														
		STD	0200	1553	3618	2678	0013384	0261	15138														
		OBS	0200	1553	36181	2678			15138														
		STD	0250	1553	3618	2678	0013541	0328	15146														
		OBS	0250	1553	36181	2678			15146														
		STD	0300	1555	3618	2678	0013724	0396	15155														
		OBS	0300	1555	36184	2678			15155														
		OBS	0302	1521	36085	2678			15143														
		OBS	0329	1446	35911	2681			15122														
		STD	0400	1357	3575	2688	0012968	0530	15103														
		OBS	0400	1357	35753	2688			15103														
		STD	0500	1270	3565	2697	0012263	0656	15089														
		OBS	0500	1270	35648	2697			15089														
		STD	0600	1062	3535	2713	0010791	0771	15029														
		OBS	0600	1062	35348	2713			15029														
		STD	0700	0856	3513	2731	0009076	0870	14967														
		OBS	0700	0856	35130	2731			14967														
		OBS	0760	0727	35059	2745			14927														
		STD	0800	0700	3505	2748	0007403	0953	14923														
		OBS	0800	0700	35053	2748			14923														
		OBS	0841	0639	35053	2756			14906														
		STD	0900	0637	3513	2762	0006092	1020	14916														
		OBS	0900	0637	35126	2762			14916														
		STD	1000	0567	3507	2767	0005653	1079	14904														
		OBS	1000	0567	35069	2767			14904														
		OBS	1034	0522	35028	2769			14890														
		OBS	1069	0527	35053	2771			14899														
		OBS	1079	0502	35025	2771			14890														
		STD	1100	0500	3502	2771	0005196	1133	14892														
		OBS	1100	0500	35023	2771			14892														
		STD	1200	0469	3502	2775	0004932	1184	14896														
		OBS	1200	0469	35018	2775			14896														
		STD	1300	0462	3501	2775	0004982	1233	14910														
		OBS	1300	0462	35013	2775			14910														
		STD	1400	0432	3498	2776	0004900	1283	14914														
		OBS	1400	0432	34983	2776			14914														
		STD	1500	0416	3496	2776	0004922	1332	14924														
		OBS	1500	0416	34964	2776			14924														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S' MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

318039 EV 4233 N 046435W 149 26 04 09 090 1968 001 10083 4480 1 28 3 2 X1 0 3 0044

WATER		WIND		BARO-		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB				

DT SD 28 520 220 106 083 7 26

MESSNGR TIME HR 1/10	CAST OF 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 $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₂ -Si $\mu\text{g} - \text{ml/l}$	pH	S
		STD	0000	1642	3633	2669	0013631	0000	15134								
090		OBS	0000	1642	36328	2669			15134								
		STD	0010	1643	3633	2669	0013673	0013	15136								
		OBS	0010	1643	36330	2669			15136								
		STD	0020	1645	3633	2668	0013733	0027	15138								
003		OBS	0020	1645	36333	2668			15138								
		STD	0030	1645	3633	2668	0013766	0041	15140								
		OBS	0030	1645	36333	2668			15140								
		STD	0050	1645	3633	2668	0013832	0068	15143								
		OBS	0050	1645	36332	2668			15143								
		STD	0075	1644	3633	2668	0013915	0103	15147								
		OBS	0075	1644	36330	2668			15147								
		STD	0100	1643	3633	2669	0013988	0138	15151								
		OBS	0100	1643	36328	2669			15151								
		STD	0125	1642	3633	2669	0014015	0173	15155								
		OBS	0125	1642	36332	2669			15155								
		STD	0150	1619	3626	2669	0014073	0208	15151								
		OBS	0150	1619	36265	2669			15151								
		STD	0200	1600	3621	2670	0014175	0279	15153								
		OBS	0200	1600	36214	2670			15153								
		STD	0250	1567	3616	2673	0013979	0349	15150								
		OBS	0250	1567	36163	2673			15150								
		STD	0300	1564	3617	2675	0014026	0419	15158								
		OBS	0300	1564	36169	2675			15158								
		STD	0400	1507	3601	2675	0014264	0560	15154								
		OBS	0400	1507	36008	2675			15154								
		STD	0500	1227	3555	2698	0012126	0692	15073								
		OBS	0500	1227	35553	2698			15073								
		STD	0600	0938	3518	2722	0009848	0802	14982								
		OBS	0600	0938	35183	2722			14982								
		STD	0700	0737	3509	2746	0007517	0889	14921								
		OBS	0700	0737	35090	2746			14921								
		STD	0800	0567	3489	2753	0006693	0960	14868								
		OBS	0800	0567	34893	2753			14868								
		OBS	0870	0537	34973	2763			14869								
		STD	0900	0615	3514	2767	0005657	1022	14907								
		OBS	0900	0615	35143	2767			14907								
		OBS	0920	0636	35183	2767			14919								
		STD	1000	0586	3515	2771	0005306	1077	14912								
		OBS	1000	0586	35153	2771			14912								
		STD	1100	0507	3505	2773	0005082	1129	14896								
		OBS	1100	0507	35052	2773			14896								
		STD	1200	0448	3498	2774	0004917	1179	14887								
		OBS	1200	0448	34983	2774			14887								
		STD	1300	0436	3497	2774	0004955	1228	14899								
		OBS	1300	0436	34969	2774			14899								
		STD	1400	0412	3495	2776	0004860	1277	14905								
		OBS	1400	0412	34952	2776			14905								
		STD	1500	0406	3495	2776	0004870	1326	14920								
		OBS	1500	0406	34953	2776			14920								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN INDIC	MARS DEN SQUARE				STATION TIME GMT				YEAR	DRIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MD	OAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA	TYPE	AMT						
318039	EV		42330N	047175W		149	27	04	09	121			1968		001	10084		3931	1	30	3	3		X1	03		0045
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																				
DT	SD	27	S16	217	100	078	7	35																			
MESSENGER TIME HR 1/10	CAST OF ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ DYN. ML x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiD ₄ -Si µg - at/l	pH	Si CC										
		STD	0000	1396	3567	2673	0013242	0000	15049																		
121		OBS	0000	1396	35668	2673			15049																		
		STD	0010	1397	3567	2673	0013289	0013	15051																		
		OBS	0010	1397	35668	2673			15051																		
		STD	0020	1396	3567	2673	0013300	0026	15052																		
003		OBS	0020	1396	35668	2673			15052																		
		OBS	0025	1396	35668	2673			15053																		
		STD	0030	1396	3567	2673	0013329	0039	15054																		
		OBS	0030	1396	35668	2673			15054																		
		OBS	0045	1396	35668	2673			15056																		
		STD	0050	1367	3562	2675	0013159	0066	15047																		
		OBS	0050	1367	35620	2675			15047																		
		STD	0075	1325	3553	2677	0013071	0099	15036																		
		OBS	0075	1325	35528	2677			15036																		
		OBS	0087	1303	35505	2680			15030																		
		STD	0100	1326	3556	2679	0012905	0131	15041																		
		OBS	0100	1326	35563	2679			15041																		
		STD	0125	1289	3551	2683	0012605	0163	15032																		
		OBS	0125	1289	35515	2683			15032																		
		STD	0150	1282	3554	2687	0012319	0194	15034																		
		OBS	0150	1282	35545	2687			15034																		
		OBS	0184	1282	35548	2687			15040																		
		STD	0200	1252	3548	2688	0012353	0256	15031																		
		OBS	0200	1252	35481	2688			15031																		
		OBS	0218	1191	35353	2690			15012																		
		OBS	0221	1218	35418	2690			15022																		
		OBS	0235	1177	35408	2697			15010																		
		STD	0250	1207	3552	2700	0011329	0315	15025																		
		OBS	0250	1207	35522	2700			15025																		
		STD	0300	1147	3542	2703	0011082	0371	15011																		
		OBS	0300	1147	35421	2703			15011																		
		STD	0400	0942	3520	2723	0009361	0473	14951																		
		OBS	0400	0942	35202	2723			14951																		
		OBS	0455	0796	35013	2731			14903																		
		OBS	0480	0805	35091	2736			14911																		
		STD	0500	0694	3501	2746	0007138	0556	14871																		
		OBS	0500	0694	35013	2746			14871																		
		OBS	0557	0669	34998	2748			14870																		
		STD	0600	0572	3491	2753	0006407	0624	14837																		
		OBS	0600	0572	34906	2753			14837																		
		OBS	0625	0613	35001	2756			14859																		
		STD	0700	0516	3493	2762	0005608	0684	14831																		
		OBS	0700	0516	34933	2762			14831																		
		STD	0800	0524	3501	2768	0005261	0738	14852																		
		OBS	0800	0524	35010	2768			14852																		
		STD	0900	0489	3499	2771	0005033	0789	14854																		
		OBS	0900	0489	34995	2771			14854																		
		STD	1000	0456	3498	2773	0004829	0839	14857																		
		OBS	1000	0456	34980	2773			14857																		
		STD	1100	0455	3498	2773	0004913	0887	14873																		
		OBS	1100	0455	34982	2773			14873																		
		STD	1200	0434	3498	2775	0004780	0936	14881																		
		OBS	1200	0434	34976	2775			14881																		
		STD	1300	0421	3497	2776	0004733	0984	14893																		
		OBS	1300	0421	34973	2776			14893																		
		STD	1400	0415	3497	2776	0004800	1031	14907																		
		OBS	1400	0415	34966	2776			14907																		
		STD	1500	0411	3497	2777	0004799	1079	14922																		
		OBS	1500	0411	34971	2777			14922																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE DDMMYY	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	
318039	EV		43015N	04755 W		149	37	04	09	160	1968	001	10085	3310	1	25	4	2		X1	0	3	0046
		WATER		WIND		BARO- METER OR FORCE		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
DT	SD	22	S12	190	083	067	7	41															
MISSING TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	3 CG						
		STD	0000	0487	3336	2642	0016219	0000	14683														
160		OBS	0000	0487	33363	2642			14683														
		STD	0010	0968	3461	2672	0013317	0014	14889														
		OBS	0010	0968	34613	2672			14889														
		STD	0020	1011	3475	2676	0012996	0027	14908														
003		OBS	0020	1011	34753	2676			14908														
		OBS	0025	1037	34833	2678			14919														
		STD	0030	1095	3496	2678	0012870	0040	14942														
		OBS	0030	1095	34965	2678			14942														
		OBS	0042	1097	34982	2679			14945														
		STD	0050	1015	3483	2682	0012538	0066	14915														
		OBS	0050	1015	34833	2682			14915														
		OBS	0055	1055	34936	2683			14932														
		STD	0075	0857	3462	2691	0011656	0096	14858														
		OBS	0075	0857	34623	2691			14858														
		OBS	0090	1025	35077	2699			14929														
		STD	0100	1018	3507	2699	0010960	0124	14928														
		OBS	0100	1018	35068	2699			14928														
		OBS	0109	1006	35044	2700			14924														
		STD	0125	0857	3477	2703	0010641	0151	14868														
		OBS	0125	0857	34773	2703			14868														
		OBS	0140	0827	34778	2708			14860														
		STD	0150	0905	3499	2712	0009802	0177	14893														
		OBS	0150	0905	34992	2712			14893														
		OBS	0162	0917	35033	2714			14900														
		OBS	0176	0884	34974	2714			14890														
		STD	0200	0571	3447	2719	0009088	0224	14765														
		OBS	0200	0571	34473	2719			14765														
		OBS	0214	0261	34218	2732			14634														
		OBS	0231	0512	34593	2736			14748														
		OBS	0247	0410	34496	2740			14707														
		STD	0250	0497	3463	2741	0007103	0265	14745														
		OBS	0250	0497	34630	2741			14745														
		OBS	0275	0449	34576	2742			14729														
		OBS	0285	0547	34771	2746			14773														
		STD	0300	0557	3479	2747	0006646	0299	14780														
		OBS	0300	0557	34795	2747			14780														
		OBS	0310	0566	34818	2747			14786														
		OBS	0330	0447	34702	2752			14739														
		OBS	0350	0557	34873	2753			14789														
		STD	0400	0494	3486	2759	0005540	0360	14772														
		OBS	0400	0494	34858	2759			14772														
		OBS	0412	0473	34841	2760			14765														
		OBS	0432	0520	34953	2764			14789														
		STD	0500	0517	3499	2767	0004985	0413	14799														
		OBS	0500	0517	34986	2767			14799														
		STD	0600	0476	3495	2769	0004852	0462	14799														
		OBS	0600	0476	34953	2769			14799														
		STD	0700	0459	3495	2770	0004792	0510	14808														
		OBS	0700	0459	34948	2770			14808														
		STD	0800	0460	3496	2771	0004803	0558	14825														
		OBS	0800	0460	34962	2771			14825														
		STD	0900	0456	3497	2772	0004830	0606	14840														
		OBS	0900	0456	34966	2772			14840														
		STD	1000	0441	3495	2773	0004829	0654	14851														
		OBS	1000	0441	34955	2773			14851														
		STD	1100	0417	3493	2773	0004840	0703	14857														
		OBS	1100	0417	34926	2773			14857														
		STD	1200	0415	3492	2773	0004947	0752	14873														
		OBS	1200	0415	34921	2773			14873														
		STD	1300	0413	3494	2775	0004850	0801	14889														
		OBS	1300	0413	34943	2775			14889														
		OBS	1375	0389	34933	2777			14891														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT INDIC	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR,1/10			CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318039	EV		43030N	046520W		149	36	04	09	207	1968		001	10086		4023	1	20	3	2		X1	03	0047
		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															
		DT	SD	20	S25	135		150	122	7	37													
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \theta$ DYN. M., X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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							
		STD	0000	1666	3636	2666	0013930		0000	15142														
207		OBS	0000	1666	36361	2666				15142														
		STD	0010	1666	3636	2666	0013963		0013	15143														
		OBS	0010	1666	36361	2666				15143														
		STD	0020	1666	3636	2666	0013996		0027	15145														
003		OBS	0020	1666	36361	2666				15145														
		OBS	0025	1666	36361	2666				15146														
		STD	0030	1666	3636	2666	0014030		0041	15147														
		OBS	0030	1666	36361	2666				15147														
		STD	0050	1667	3636	2665	0014114		0070	15150														
		OBS	0050	1667	36361	2665				15150														
		STD	0075	1667	3636	2666	0014188		0105	15154														
		OBS	0075	1667	36363	2666				15154														
		STD	0100	1667	3636	2666	0014271		0141	15158														
		OBS	0100	1667	36363	2666				15158														
		STD	0125	1667	3636	2666	0014354		0176	15163														
		OBS	0125	1667	36363	2666				15163														
		STD	0150	1670	3637	2665	0014464		0212	15168														
		OBS	0150	1670	36368	2665				15168														
		STD	0200	1672	3636	2664	0014711		0285	15176														
		OBS	0200	1672	36363	2664				15176														
		OBS	0219	1655	36335	2666				15174														
		OBS	0222	1607	36223	2669				15159														
		STD	0250	1547	3604	2669	0014412		0358	15142														
		OBS	0250	1547	36043	2669				15142														
		STD	0300	1459	3589	2677	0013758		0429	15121														
		OBS	0300	1459	35895	2677				15121														
		OBS	0340	1438	35841	2677				15120														
		STD	0400	1317	3569	2691	0012617		0560	15089														
		OBS	0400	1317	35691	2691				15089														
		OBS	0461	1094	35372	2709				15018														
		STD	0500	1050	3531	2713	0010606		0677	15008														
		OBS	0500	1050	35313	2713				15008														
		OBS	0562	0846	35043	2726				14940														
		OBS	0573	0862	35095	2727				14948														
		STD	0600	0773	3495	2729	0008945		0774	14917														
		OBS	0600	0773	34947	2729				14917														
		OBS	0620	0706	34923	2737				14894														
		OBS	0650	0737	35013	2740				14912														
		STD	0700	0638	3500	2753	0006704		0853	14881														
		OBS	0700	0638	35005	2753				14881														
		OBS	0720	0710	35163	2755				14915														
		STD	0800	0677	3520	2763	0005956		0916	14916														
		OBS	0800	0677	35203	2763				14916														
		OBS	0810	0676	35205	2763				14917														
		OBS	0823	0603	35119	2766				14889														
		OBS	0863	0527	35006	2767				14864														
		STD	0900	0504	3497	2767	0005393		0973	14860														
		OBS	0900	0504	34973	2767				14860														
		STD	1000	0498	3502	2772	0005060		1025	14875														
		OBS	1000	0498	35023	2772				14875														
		STD	1100	0462	3498	2773	0004993		1075	14876														
		OBS	1100	0462	34983	2773				14876														
		STD	1200	0438	3497	2774	0004889		1125	14883														
		OBS	1200	0438	34968	2774				14883														
		OBS	1240	0410	34933	2774				14877														
		STD	1300	0410	3494	2775	0004823		1173	14888														
		OBS	1398	0398	34933	2776				14899														
		OBS	1300	0410	34941	2775				14888														
		OBS	1398	0398	34933	2776				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 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					
318039	EV		43043N	046020W	149	36	04	10	008	1968	001	10087		4680	1	32	4	2		X1	0	3	0048					
						WATER		WIND		AIR TEMP. °C																		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						DT	SD	21	S40	119			7	23														

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DTN, M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	CO ₂
		STD	0000	1552	3617	2677	0012826	0000	15105								
	008	OBS	0000	1552	36168	2677			15105								
		STD	0010	1552	3617	2677	0012858	0012	15106								
		OBS	0010	1552	36168	2677			15106								
		STD	0020	1552	3617	2677	0012889	0025	15108								
	001	OBS	0020	1552	36168	2677			15108								
		OBS	0025	1552	36168	2677			15109								
		STD	0030	1552	3617	2677	0012921	0038	15109								
		OBS	0030	1552	36168	2677			15109								
		STD	0050	1552	3617	2677	0012984	0064	15113								
		OBS	0050	1552	36168	2677			15113								
		STD	0075	1552	3617	2677	0013063	0097	15117								
		OBS	0075	1552	36168	2677			15117								
		STD	0100	1552	3617	2677	0013142	0129	15121								
		OBS	0100	1552	36168	2677			15121								
		STD	0125	1552	3617	2677	0013221	0162	15125								
		OBS	0125	1552	36168	2677			15125								
		STD	0150	1552	3617	2677	0013299	0195	15129								
		OBS	0150	1552	36168	2677			15129								
		STD	0200	1552	3617	2677	0013456	0262	15137								
		OBS	0200	1552	36168	2677			15137								
		STD	0250	1552	3617	2677	0013612	0330	15146								
		OBS	0250	1552	36168	2677			15146								
		STD	0300	1552	3617	2677	0013768	0399	15154								
		OBS	0300	1552	36168	2677			15154								
		OBS	0319	1550	36134	2675			15156								
		OBS	0340	1388	35750	2681			15103								
		OBS	0367	1371	35753	2685			15102								
		STD	0400	1247	3545	2687	0012980	0532	15062								
		OBS	0400	1247	35453	2687			15062								
		OBS	0452	1098	35306	2704			15017								
		OBS	0464	1117	35357	2704			15026								
		STD	0500	1082	3532	2708	0011103	0653	15020								
		OBS	0500	1082	35323	2708			15020								
		OBS	0540	0954	35166	2718			14978								
		STD	0600	0847	3508	2729	0009092	0754	14947								
		OBS	0600	0847	35083	2729			14947								
		OBS	0650	0757	35058	2740			14920								

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

318039	EV	4835 N	04610 W	149	86	04	12	085	1968	001	10088	1609	1	25	2	3		X2	0	3		0049
					WATER		WIND		BARO-		AIR TEMP. °C		VIS.		ND.		SPECIAL					
COLOR		TRANS.		DIR.		SPEED		METER		DRY		WET		CODE		OBS.		DEPTHS				
CODE		(m)				OR		(mb)		BULB		BULB										
DT		SD		26		S10		227		-006		-006		7		23						

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ D CYN. 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	-0024	3349	2692	0011397	0000	14461								
085		OBS	0000	-0024	33493	2692			14461								
		STD	0010	-0048	3347	2692	0011447	0011	14451								
		OBS	0010	-0048	33473	2692			14451								
		STD	0020	-0063	3346	2692	0011461	0022	14446								
002		OBS	0020	-0063	33463	2692			14446								
		OBS	0025	-0078	33458	2692			14440								
		STD	0030	-0065	3347	2692	0011375	0034	14447								
		OBS	0030	-0065	33473	2692			14447								
		STD	0050	0177	3442	2755	0005487	0051	14573								
		OBS	0050	0177	34423	2755			14573								
		STD	0075	0257	3457	2760	0004989	0064	14614								
		OBS	0075	0257	34573	2760			14614								
		STD	0100	0307	3464	2762	0004909	0076	14641								
		OBS	0100	0307	34643	2762			14641								
		STD	0125	0347	3470	2763	0004849	0088	14663								
		OBS	0125	0347	34703	2763			14663								
		STD	0150	0406	3482	2766	0004559	0100	14693								
		OBS	0150	0406	34823	2766			14693								
		STD	0200	0449	3490	2768	0004467	0123	14721								
		OBS	0200	0449	34903	2768			14721								
		STD	0250	0455	3493	2769	0004399	0145	14732								
		OBS	0250	0455	34928	2769			14732								
		STD	0300	0452	3494	2770	0004352	0167	14739								
		OBS	0300	0452	34938	2770			14739								
		STD	0400	0432	3494	2773	0004208	0210	14747								
		OBS	0400	0432	34941	2773			14747								
		STD	0500	0407	3492	2774	0004165	0251	14753								
		OBS	0500	0407	34923	2774			14753								
		STD	0600	0388	3492	2776	0004055	0292	14762								
		OBS	0600	0388	34922	2776			14762								
		STD	0700	0378	3492	2777	0004022	0333	14774								
		OBS	0700	0378	34923	2777			14774								
		STD	0800	0372	3492	2778	0004046	0373	14788								
		OBS	0800	0372	34923	2778			14788								
		STD	0900	0368	3493	2779	0004009	0414	14803								
		OBS	0900	0368	34933	2779			14803								
		STD	1000	0363	3493	2779	0004038	0454	14818								
		OBS	1000	0363	34933	2779			14818								
		STD	1100	0358	3494	2780	0004030	0494	14832								
		OBS	1100	0358	34938	2780			14832								
		STD	1200	0349	3494	2782	0003944	0534	14845								
		OBS	1200	0349	34945	2782			14845								
		STD	1300	0347	3495	2782	0003983	0574	14861								
		OBS	1300	0347	34948	2782			14861								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4817 N	04608 W	149	86	04	12	105	1968	001	10089	1235	1	25	2	3		X2	0	3		0050

318039	EV	4817 N	04608 W	149	86	04 12 105	1968	001	10089	1235	1	25	2	3		X2	0	3		0050
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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			
DT	SD	22	S10	247	006	-011	7	21	

DT	SD	22	510	247	006	-011	7	21	
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MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-10 ⁷	$\Sigma \Delta$ D CYCL. M. X 10 ⁷	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - cl/l	TOTAL-P µg - cl/l	NO ₂ -N µg - cl/l	NO ₃ -N µg - cl/l	SIO ₄ -Si µg - cl/l	pH	CO ₂
		STD	0000	-0058	3345	2690	0011578	0000	14445								
	105	OBS	0000	-0058	33452	2690			14445								
		STD	0010	-0048	3346	2691	0011529	0011	14451								
		OBS	0010	-0048	33463	2691			14451								
		STD	0020	-0017	3357	2698	0010813	0022	14469								
	002	OBS	0020	-0017	33573	2698			14469								
		OBS	0025	-0008	33603	2700			14474								
		STD	0030	0022	3372	2709	0009847	0033	14490								
		OBS	0030	0022	33723	2709			14490								
		STD	0050	0117	3409	2733	0007582	0050	14542								
		OBS	0050	0117	34093	2733			14542								
		STD	0075	0161	3427	2744	0006521	0068	14568								
		OBS	0075	0161	34273	2744			14568								
		STD	0100	0242	3443	2751	0005938	0083	14610								
		OBS	0100	0242	34433	2751			14610								
		STD	0125	0275	3453	2756	0005475	0098	14630								
		OBS	0125	0275	34533	2756			14630								
		STD	0150	0342	3466	2760	0005129	0111	14664								
		OBS	0150	0342	34663	2760			14664								
		STD	0200	0397	3475	2761	0005044	0136	14697								
		OBS	0200	0397	34753	2761			14697								
		OBS	0240	0436	34833	2764			14721								
		STD	0250	0406	3482	2766	0004656	0160	14710								
		OBS	0250	0406	34823	2766			14710								
		STD	0300	0430	3488	2768	0004516	0183	14729								
		OBS	0300	0430	34883	2768			14729								
		STD	0400	0451	3493	2770	0004486	0228	14755								
		OBS	0400	0451	34933	2770			14755								
		STD	0500	0435	3493	2772	0004404	0273	14765								
		OBS	0500	0435	34933	2772			14765								
		STD	0600	0418	3493	2774	0004313	0316	14774								
		OBS	0600	0418	34933	2774			14774								
		STD	0700	0402	3493	2775	0004260	0359	14784								
		OBS	0700	0402	34928	2775			14784								
		STD	0800	0389	3492	2776	0004240	0402	14795								
		OBS	0800	0389	34923	2776			14795								
		STD	0900	0379	3492	2777	0004211	0444	14808								
		OBS	0900	0379	34923	2777			14808								
		STD	1000	0374	3492	2777	0004242	0486	14822								
		OBS	1000	0374	34923	2777			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		
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
CIRCUIT NO.	ID. NO.																							
318039	EV	4758 N	04607 W		149	76	04	12	125	1968	001	10090	0887	1	25	2	3		X2	0	3		0051	
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
					DT	SD	22	S10	240	028	022	7	26											

MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. ML. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD 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	$\frac{1}{2}$ C
125		STD	0000	0072	3356	2693	0011343	0000	14506								
		OBS	0000	0072	33562	2693			14506								
001		STD	0010	0062	3355	2693	0011342	0011	14503								
		OBS	0010	0062	33555	2693			14503								
		STD	0020	0053	3355	2693	0011296	0022	14500								
		OBS	0020	0053	33555	2693			14500								
		OBS	0025	0052	33573	2695			14501								
		STD	0030	0092	3379	2710	0009699	0033	14523								
		OBS	0030	0092	33793	2710			14523								
		STD	0050	0175	3391	2714	0009386	0052	14565								
		OBS	0050	0175	33906	2714			14565								
		OBS	0056	0214	34013	2719			14584								
		OBS	0066	0207	34043	2722			14583								
		STD	0075	0335	3433	2734	0007485	0073	14644								
		OBS	0075	0335	34333	2734			14644								
		OBS	0082	0377	34453	2740			14665								
		OBS	0096	0223	34291	2741			14599								
		STD	0100	0359	3451	2746	0006373	0090	14661								
		OBS	0100	0359	34513	2746			14661								
		OBS	0103	0276	34423	2747			14625								
		OBS	0110	0342	34535	2750			14656								
		OBS	0115	0284	34466	2750			14631								
		STD	0125	0328	3455	2752	0005798	0105	14653								
		OBS	0125	0328	34553	2752			14653								
		STD	0150	0355	3461	2755	0005611	0120	14669								
		OBS	0150	0355	34615	2755			14669								
		STD	0200	0436	3486	2766	0004631	0145	14715								
		OBS	0200	0436	34863	2766			14715								
		STD	0250	0457	3491	2768	0004544	0168	14732								
		OBS	0250	0457	34912	2768			14732								
		STD	0300	0454	3493	2769	0004435	0191	14740								
		OBS	0300	0454	34930	2769			14740								
		STD	0400	0440	3493	2771	0004359	0235	14750								
		OBS	0400	0440	34933	2771			14750								
		STD	0500	0394	3489	2773	0004238	0278	14747								
		OBS	0500	0394	34894	2773			14747								
		STD	0600	0386	3491	2775	0004150	0320	14760								
		OBS	0600	0386	34906	2775			14760								
		STD	0700	0377	3490	2776	0004154	0361	14773								
		OBS	0700	0377	34904	2776			14773								
		STD	0800	0373	3491	2776	0004164	0403	14788								
		OBS	0800	0373	34908	2776			14788								
		OBS	0820	0373	34908	2776			14792								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	EAST OR WEST	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER								TYPE	AMT	
																DIR.	HGT	PER	SEA				
318039	EV		47390N	04606 W		149	76	04	12	145	1968	001	10091	0511	1	24	2	3		X2	0 3		0052
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	25	S10	247	033	022	7					27					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. x 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					
		STD	0000	0417	3364	2671	0013432		0000		14657												
145		OBS	0000	0417	33638	2671					14657												
		OBS	0005	0407	33618	2670					14654												
		STD	0010	0317	3351	2670	0013501		0013		14615												
001		OBS	0010	0317	33508	2670					14615												
		STD	0020	0233	3348	2675	0013051		0026		14580												
		OBS	0020	0233	33478	2675					14580												
		OBS	0025	0203	33475	2677					14567												
		OBS	0027	0191	33481	2679					14562												
		STD	0030	0209	3367	2693	0011380		0039		14573												
		OBS	0030	0209	33675	2693					14573												
		OBS	0046	0414	33965	2697					14668												
		STD	0050	0415	3402	2702	0010564		0060		14670												
		OBS	0050	0415	34023	2702					14670												
		OBS	0062	0426	34153	2711					14678												
		OBS	0065	0402	34184	2716					14669												
		OBS	0068	0410	34226	2718					14674												
		STD	0075	0392	3428	2724	0008416		0084		14668												
		OBS	0075	0392	34281	2724					14668												
		OBS	0084	0417	34373	2729					14681												
		OBS	0090	0397	34425	2735					14674												
		STD	0100	0419	3446	2736	0007344		0104		14686												
		OBS	0100	0419	34463	2736					14686												
		OBS	0111	0337	34373	2737					14652												
		STD	0125	0379	3456	2748	0006202		0121		14674												
		OBS	0125	0379	34565	2748					14674												
		STD	0150	0413	3472	2757	0005381		0135		14695												
		OBS	0150	0413	34723	2757					14695												
		OBS	0178	0497	34883	2761					14737												
		STD	0200	0509	3494	2764	0004883		0161		14746												
		OBS	0200	0509	34938	2764					14746												
		OBS	0225	0504	34920	2763					14748												
		STD	0250	0461	3489	2766	0004735		0185		14734												
		OBS	0250	0461	34893	2766					14734												
		STD	0300	0453	3491	2768	0004586		0208		14739												
		OBS	0300	0453	34908	2768					14739												
		STD	0400	0412	3490	2772	0004269		0253		14738												
		OBS	0400	0412	34903	2772					14738												
		STD	0500	0409	3491	2773	0004283		0295		14754												
		OBS	0500	0409	34910	2773					14754												
		OBS	0511	0409	34910	2773					14755												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. NO.						10"	1"	MO	OAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
318039	EV		4719 N	04605 W	149	76	04	12	160	1968	001	10092		0346	1	24	2	2		X2	0	3	0053		
						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											
						OT	SO	25	506	240		028		022		7		15							

MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DTN. 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	ST C
160	STO	0000	0433	3373	2676	0012925	0000	14665									
	OBS	0000	0433	33727	2676			14665									
001	STO	0010	0430	3372	2676	0012952	0012	14666									
	OBS	0010	0430	33721	2676			14666									
	STO	0020	0425	3375	2679	0012708	0025	14666									
	OBS	0020	0425	33748	2679			14666									
	OBS	0025	0427	33771	2680			14668									
	STO	0030	0427	3377	2681	0012545	0038	14668									
	OBS	0030	0427	33773	2681			14668									
	STO	0050	0427	3381	2684	0012264	0063	14672									
	OBS	0050	0427	33813	2684			14672									
	OBS	0067	0338	33943	2703			14639									
	STO	0075	0407	3419	2716	0009231	0090	14673									
	OBS	0075	0407	34193	2716			14673									
	STO	0100	0459	3443	2729	0007994	0111	14702									
	OBS	0100	0459	34433	2729			14702									
	STO	0125	0450	3457	2741	0006873	0130	14704									
	OBS	0125	0450	34573	2741			14704									
	STO	0150	0470	3470	2749	0006195	0146	14718									
	OBS	0150	0470	34696	2749			14718									
	STO	0200	0500	3483	2757	0005553	0175	14741									
	OBS	0200	0500	34835	2757			14741									
	STO	0250	0486	3489	2762	0005055	0202	14744									
	OBS	0250	0486	34888	2762			14744									
	OBS	0280	0484	34893	2763			14748									
	STO	0300	0445	3487	2766	0004769	0227	14735									
	OBS	0300	0445	34871	2766			14735									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	IO. NO.						10"	1"	MO	OAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
318039	EV		4702 N	04603 W	149	76	04	12	182	1968	001	10093		0320	1	24	2	2		X7	0	3	0054				
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB		VIS. CODE													
						DT	SD	22	507	230		044		039		5		25									

MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DTN. 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	ST C
182	STO	0000	0492	3373	2670	0013495	0000	14690									
	OBS	0000	0492	33733	2670			14690									
001	STO	0010	0486	3373	2670	0013487	0013	14689									
	OBS	0010	0486	33726	2670			14689									
	STO	0020	0487	3373	2671	0013452	0027	14691									
	OBS	0020	0487	33734	2671			14691									
	OBS	0025	0487	33748	2672			14692									
	STO	0030	0490	3375	2672	0013345	0040	14694									
	OBS	0030	0490	33754	2672			14694									
	STO	0050	0496	3377	2673	0013294	0067	14700									
	OBS	0050	0496	33772	2673			14700									
	OBS	0055	0497	33813	2676			14702									
	STO	0075	0645	3429	2696	0011179	0097	14772									
	OBS	0075	0645	34293	2696			14772									
	OBS	0092	0853	34913	2714			14863									
	STO	0100	0818	3489	2718	0009123	0123	14851									
	OBS	0100	0818	34893	2718			14851									
	OBS	0114	0694	34703	2721			14803									
	OBS	0122	0704	34742	2723			14809									
	STO	0125	0660	3467	2724	0008621	0145	14791									
	OBS	0125	0660	34673	2724			14791									
	OBS	0130	0607	34593	2724			14770									
	OBS	0135	0620	34642	2727			14776									
	STO	0150	0585	3461	2729	0008137	0166	14764									
	OBS	0150	0585	34615	2729			14764									
	OBS	0157	0557	34621	2733			14754									
	OBS	0184	0562	34665	2736			14761									
	STO	0200	0474	3458	2739	0007188	0204	14727									
	OBS	0200	0474	34577	2739			14727									
	OBS	0205	0466	34593	2741			14724									
	OBS	0225	0480	34751	2752			14736									
	OBS	0235	0541	34856	2753			14764									
	STO	0250	0514	3482	2754	0005881	0237	14755									
	OBS	0250	0514	34820	2754			14755									
	OBS	0265	0477	34798	2756			14742									
	OBS	0280	0475	34813	2758			14743									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318039	EV		4702 N	04622 W		149	76	04	12	196	1968	001	10094	0320	1	24	2	2		X7	0	3		0055
						WATER		WIND		AIR TEMP. °C														
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	SD	14	S06	227	017	017	5	17										
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/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC						
		STD	0000	0401	3349	2661	0014382		0000	14649														
	196	OBS	0000	0401	33492	2661				14649														
		STD	0010	0400	3350	2661	0014345		0014	14650														
		OBS	0010	0400	33497	2661				14650														
	001	STD	0020	0394	3351	2663	0014171		0028	14649														
		OBS	0020	0394	33513	2663				14649														
		OBS	0025	0393	33523	2664				14650														
		STD	0030	0394	3353	2665	0014052		0042	14651														
		OBS	0030	0394	33530	2665				14651														
		STD	0050	0367	3361	2674	0013188		0070	14644														
		OBS	0050	0367	33613	2674				14644														
		OBS	0065	0327	33797	2692				14632														
		STD	0075	0328	3389	2700	0010733		0099	14635														
		OBS	0075	0328	33893	2700				14635														
		STD	0100	0384	3424	2722	0008634		0124	14668														
		OBS	0100	0384	34245	2722				14668														
		STD	0125	0417	3449	2739	0007124		0143	14689														
		OBS	0125	0417	34493	2739				14689														
		STD	0150	0487	3469	2747	0006399		0160	14725														
		OBS	0150	0487	34694	2747				14725														
		OBS	0175	0557	34863	2752				14760														
		STD	0200	0578	3493	2755	0005752		0191	14774														
		OBS	0200	0578	34933	2755				14774														
		OBS	0219	0585	34951	2755				14780														
		OBS	0243	0491	34819	2756				14744														
		STD	0250	0490	3485	2759	0005363		0218	14745														
		OBS	0250	0490	34852	2759				14745														
		OBS	0295	0485	34875	2761				14751														

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH OF 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		
318039	EV		4702 N	04636 W		149	76	04	12	207	1968	001	10095	0393	1	24	2	2		X7	0	3		0056
						WATER			WIND			AIR TEMP. °C			NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE											
						DT	SD	14	S07	227	017	017	5	22										
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/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC						
		STD	0000	0320	3352	2671	0013459		0000	14615														
	207	OBS	0000	0320	33516	2671				14615														
		STD	0010	0251	3352	2677	0012866		0013	14586														
		OBS	0010	0251	33520	2677				14586														
		STD	0020	0221	3355	2682	0012417		0025	14575														
	001	OBS	0020	0221	33549	2682				14575														
		OBS	0025	0221	33553	2682				14576														
		STD	0030	0221	3355	2682	0012375		0038	14577														
		OBS	0030	0221	33555	2682				14577														
		OBS	0035	0223	33573	2683				14579														
		STD	0050	0309	3393	2704	0010289		0060	14624														
		OBS	0050	0309	33928	2704				14624														
		OBS	0067	0439	34123	2707				14684														
		STD	0075	0278	3402	2715	0009315		0085	14616														
		OBS	0075	0278	34023	2715				14616														
		OBS	0082	0459	34360	2724				14698														
		OBS	0092	0474	34435	2728				14707														
		OBS	0095	0437	34444	2733				14692														
		STD	0100	0468	3451	2735	0007491		0106	14707														
		OBS	0100	0468	34513	2735				14707														
		OBS	0107	0457	34523	2737				14704														
		OBS	0110	0484	34593	2739				14716														
		STD	0125	0443	3460	2745	0006582		0124	14702														
		OBS	0125	0443	34602	2745				14702														
		STD	0150	0495	3479	2754	0005744		0139	14730														
		OBS	0150	0495	34794	2754				14730														
		STD	0200	0528	3490	2759	0005350		0167	14753														
		OBS	0200	0528	34905	2759				14753														
		STD	0250	0525	3497	2764	0004881		0192	14761														
		OBS	0250	0525	34972	2764				14761														
		STD	0300	0449	3489	2767	0004691		0216	14737														
		OBS	0300	0449	34888	2767				14737														
		OBS	0331	0472	34944	2768				14752														
		OBS	0350	0448	34917	2769				14745														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT FOOT	MARDEN 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	TPP		AMT		
318039	EV	4702 N	04652 W	149	76	04	12	217	1968	001	10096	1207	1	24	3	3		X7	0 3		0057			
		COLOR CODE	WATER		DIR.	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
DT	SD		TRANS. (m)	S06		SPEED OR FORCE	DRY BULB		WET BULB															
										09					210	022	022	4	22					
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	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 CC							
		STD	0000	0215	3350	2678	0012772	0000	14569															
217		OBS	0000	0215	33496	2678			14569															
		STD	0010	0214	3354	2682	0012413	0012	14570															
		OBS	0010	0214	33543	2682			14570															
		STD	0020	0209	3355	2683	0012317	0025	14570															
003		OBS	0020	0209	33551	2683			14570															
		OBS	0025	0208	33550	2683			14570															
		STD	0030	0206	3356	2684	0012212	0037	14571															
		OBS	0030	0206	33562	2684			14571															
		OBS	0039	0155	33593	2690			14550															
		STD	0050	0184	3391	2713	0009442	0058	14569															
		OBS	0050	0184	33908	2713			14569															
		STD	0075	0210	3413	2729	0007939	0080	14587															
		OBS	0075	0210	34133	2729			14587															
		STD	0100	0281	3443	2747	0006263	0098	14627															
		OBS	0100	0281	34433	2747			14627															
		STD	0125	0357	3456	2750	0005997	0113	14665															
		OBS	0125	0357	34563	2750			14665															
		STD	0150	0431	3475	2758	0005334	0127	14703															
		OBS	0150	0431	34755	2758			14703															
		STD	0200	0479	3490	2765	0004787	0153	14733															
		OBS	0200	0479	34905	2765			14733															
		STD	0250	0449	3490	2768	0004521	0176	14729															
		OBS	0250	0449	34903	2768			14729															
		STD	0300	0436	3490	2769	0004466	0198	14732															
		OBS	0300	0436	34898	2769			14732															
		STD	0400	0417	3491	2772	0004265	0242	14740															
		OBS	0400	0417	34911	2772			14740															
		STD	0500	0416	3493	2774	0004202	0284	14757															
		OBS	0500	0416	34931	2774			14757															
		STD	0600	0397	3492	2774	0004202	0326	14765															
		OBS	0600	0397	34916	2774			14765															
		STD	0700	0380	3491	2776	0004133	0368	14775															
		OBS	0700	0380	34912	2776			14775															
		STD	0800	0376	3491	2776	0004170	0410	14790															
		OBS	0800	0376	34913	2776			14790															
		STD	0900	0369	3491	2777	0004171	0451	14803															
		OBS	0900	0369	34913	2777			14803															
		STD	1000	0365	3491	2777	0004212	0493	14818															
		OBS	1000	0365	34913	2777			14818															
		STD	1100	0361	3492	2778	0004188	0535	14833															
		OBS	1100	0361	34921	2778			14833															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUTY INDEX	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH OF BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					MO	DAY	HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT			PER	SEA	TYPE	AMT				
										10"											1"		
318039	EV	47020N	047060W	149	77	04	12	232	1968	001	10097	1189	1	24	3	3		X7	0	3		0058	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL											
		COLOR	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																
		OT	SD	09	S06	159	022	022	4	28													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°		Σ Δ ρ DYN. 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 ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	Σ CC					
		STD	0000	0000	3318	2666	0013884		0000	14468													
232		OBS	0000	0000	33181	2666				14468													
		OBS	0002	0018	33281	2673				14478													
		STD	0010	0010	3331	2676	0012959		0013	14476													
003		OBS	0010	0010	33308	2676				14476													
		STD	0020	0012	3352	2693	0011330		0025	14481													
		OBS	0020	0012	33523	2693				14481													
		OBS	0025	0022	33545	2694				14487													
		STD	0030	-0008	3356	2697	0010974		0036	14474													
		OBS	0030	-0008	33557	2697				14474													
		OBS	0035	-0019	33645	2704				14471													
		STD	0050	0075	3391	2721	0008686		0056	14520													
		OBS	0050	0075	33913	2721				14520													
		OBS	0055	0097	33973	2724				14532													
		OBS	0060	0075	34032	2730				14524													
		STD	0075	0162	3428	2745	0006449		0075	14568													
		OBS	0075	0162	34283	2745				14568													
		STD	0100	0267	3452	2755	0005484		0090	14622													
		OBS	0100	0267	34521	2755				14622													
		STD	0125	0362	3466	2758	0005314		0103	14669													
		OBS	0125	0362	34661	2758				14669													
		OBS	0142	0401	34722	2759				14689													
		STD	0150	0391	3471	2759	0005229		0116	14686													
		OBS	0150	0391	34713	2759				14686													
		OBS	0155	0380	34711	2760				14682													
		OBS	0166	0427	34825	2764				14705													
		STD	0200	0445	3487	2765	0004690		0141	14719													
		OBS	0200	0445	34868	2765				14719													
		STD	0250	0449	3489	2767	0004647		0165	14729													
		OBS	0250	0449	34887	2767				14729													
		STD	0300	0451	3490	2768	0004603		0188	14738													
		OBS	0300	0451	34903	2768				14738													
		STD	0400	0442	3492	2770	0004460		0233	14751													
		OBS	0400	0442	34923	2770				14751													
		STD	0500	0426	3492	2772	0004375		0277	14761													
		OBS	0500	0426	34923	2772				14761													
		STD	0600	0407	3492	2774	0004297		0321	14769													
		OBS	0600	0407	34918	2774				14769													
		STD	0700	0389	3491	2775	0004264		0363	14778													
		OBS	0700	0389	34908	2775				14778													
		STD	0800	0377	3491	2776	0004216		0406	14790													
		OBS	0800	0377	34908	2776				14790													
		STD	0900	0370	3490	2776	0004253		0448	14804													
		OBS	0900	0370	34903	2776				14804													
		STD	1000	0366	3491	2777	0004258		0491	14819													
		OBS	1000	0366	34908	2777				14819													
		STD	1100	0362	3491	2778	0004261		0533	14834													
		OBS	1100	0362	34913	2778				14834													

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCH	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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	AMT	
318039	EV	47020N	047210W	149	77	04	13	006	1968	001	10098	0528	1	24	2	3		X4	0	3	0059
					WATER		WIND		BARD- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. D.S. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	SD	36	S04		011	011										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	CO ₂
		STD	0000	-0056	3298	2652	0015215	0000	14439								
	006	OBS	0000	-0056	32978	2652			14439								
		STD	0010	-0064	3301	2655	0014911	0015	14437								
		OBS	0010	-0064	33013	2655			14437								
	001	STD	0020	-0066	3304	2658	0014680	0029	14439								
		OBS	0020	-0066	33041	2658			14439								
		OBS	0025	-0065	33051	2658			14440								
		STD	0030	-0067	3305	2658	0014621	0044	14440								
		OBS	0030	-0067	33048	2658			14440								
		STD	0050	-0096	3320	2672	0013323	0072	14432								
		OBS	0050	-0096	33203	2672			14432								
		OBS	0067	-0076	33366	2684			14446								
		STD	0075	0008	3346	2689	0011743	0103	14488								
		OBS	0075	0008	33465	2689			14488								
		OBS	0087	0003	33598	2700			14489								
		OBS	0099	0040	33693	2705			14509								
		STD	0100	0066	3377	2710	0009723	0130	14522								
		OBS	0100	0066	33770	2710			14522								
		OBS	0112	0048	33898	2721			14518								
		STD	0125	0091	3419	2742	0006666	0151	14544								
		OBS	0125	0091	34193	2742			14544								
		STD	0150	0195	3431	2745	0006495	0167	14596								
		OBS	0150	0195	34313	2745			14596								
		STD	0200	0272	3451	2754	0005674	0198	14640								
		OBS	0200	0272	34510	2754			14640								
		STD	0250	0350	3465	2758	0005358	0225	14684								
		OBS	0250	0350	34653	2758			14684								
		STD	0300	0401	3477	2762	0005060	0251	14715								
		OBS	0300	0401	34768	2762			14715								
		STD	0400	0442	3488	2767	0004764	0300	14750								
		OBS	0400	0442	34881	2767			14750								
		OBS	0460	0446	34906	2768			14762								

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCH	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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	AMT	
318039	EV	4702 N	04732 W	149	77	04	13	016	1968	001	10099	0247	1	24	2	3		X7	0	3	0060
					WATER		WIND		BARD- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. D.S. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	SD	36	S06		011	011										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	CO ₂
		STD	0000	-0073	3282	2640	0016337	0000	14429								
	016	OBS	0000	-0073	32823	2640			14429								
		STD	0010	-0100	3287	2645	0015860	0016	14419								
		OBS	0010	-0100	32873	2645			14419								
	001	STD	0020	-0102	3293	2650	0015393	0031	14420								
		OBS	0020	-0102	32933	2650			14420								
		OBS	0025	-0100	32968	2653			14422								
		STD	0030	-0099	3297	2653	0015088	0047	14424								
		OBS	0030	-0099	32973	2653			14424								
		STD	0050	-0043	3317	2667	0013747	0075	14456								
		OBS	0050	-0043	33173	2667			14456								
		OBS	0065	0002	33223	2669			14480								
		OBS	0070	-0016	33273	2674			14473								
		STD	0075	0007	3331	2676	0012889	0109	14485								
		OBS	0075	0007	33313	2676			14485								
		OBS	0080	-0004	33313	2677			14481								
		STD	0100	0020	3343	2685	0012038	0140	14497								
		OBS	0100	0020	33433	2685			14497								
		STD	0125	0042	3364	2701	0010553	0168	14514								
		OBS	0125	0042	33643	2701			14514								
		STD	0150	0112	3389	2717	0009083	0193	14553								
		OBS	0150	0112	33893	2717			14553								
		STD	0200	0192	3425	2740	0006945	0233	14602								
		OBS	0200	0192	34253	2740			14602								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRAFT METERS	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	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			
318039	EV		4702 N	04747 W		149	77	04	13	027	1968	001	10100	0190	1	24	2	3		X7	0	3		0061
						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												
						OT	SD	32	S04	203	011	011	8	12										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si D ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	-0025	3269	2628	0017541		0000	14449														
	027	OBS	0000	-0025	32689	2628				14449														
		STD	0010	-0031	3272	2631	0017256		0017	14449														
		OBS	0010	-0031	32723	2631				14449														
		STD	0020	-0052	3276	2634	0016879		0034	14441														
	001	OBS	0020	-0052	32761	2634				14441														
		OBS	0025	-0050	32771	2635				14443														
		STD	0030	-0057	3277	2635	0016820		0051	14440														
		OBS	0030	-0057	32766	2635				14440														
		STD	0050	-0076	3278	2637	0016626		0084	14435														
		OBS	0050	-0076	32781	2637				14435														
		OBS	0063	-0076	32731	2633				14437														
		OBS	0069	-0122	32721	2634				14416														
		STD	0075	-0121	3290	2648	0015554		0125	14420														
		OBS	0075	-0121	32899	2648				14420														
		STD	0100	-0018	3328	2675	0013048		0160	14477														
		OBS	0100	-0018	33276	2675				14477														
		STD	0125	0041	3352	2692	0011464		0191	14512														
		OBS	0125	0041	33523	2692				14512														
		STD	0150	0075	3365	2700	0010664		0219	14533														
		OBS	0150	0075	33653	2700				14533														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS 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		
318039	EV		47020N	048060W	149	78	04	13 047	1968	001	10101	0155	1	24	2	3		X4	0	3		0062
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB													
		DT	SD	00	S00	203																
MESSNGR TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C			
		STD	0000	-0030	3267	2627		0017650		0000	14447											
	047	OBS	0000	-0030	32673	2627					14447											
		OBS	0001	-0021	32697	2628					14451											
		STD	0010	-0021	3270	2628		0017465		0017	14453											
	001	OBS	0010	-0021	32701	2628					14453											
		STD	0020	-0024	3271	2630		0017352		0035	14453											
		OBS	0020	-0024	32714	2630					14453											
		OBS	0025	-0027	32714	2630					14453											
		STD	0030	-0031	3272	2630		0017302		0052	14452											
		OBS	0030	-0031	32716	2630					14452											
		STD	0050	-0035	3272	2631		0017202		0086	14453											
		OBS	0050	-0035	32725	2631					14453											
		STD	0075	-0072	3278	2636		0016658		0129	14441											
		OBS	0075	-0072	32776	2636					14441											
		OBS	0083	-0102	32893	2647					14430											
		STD	0100	0043	3317	2663		0014167		0167	14504											
		OBS	0100	0043	33169	2663					14504											
		STD	0125	0029	3337	2680		0012551		0201	14504											
		OBS	0125	0029	33371	2680					14504											
		OBS	0129	0034	33382	2681					14507											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
318039	EV	44385N	04921 W		149	49	04	13	170	1968	001	10102	0060	1	06	2	2		X0	0	3	0063
						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									
						DT	SD	32	S05	305		072	056	7	08							

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 $\mu\text{g} \cdot \text{dl/l}$	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 CUT
		STD	0000	0194	3290	2632	0017116	0000	14551								
	170	OBS	0000	0194	32903	2632			14551								
		OBS	0005	0146	32875	2633			14530								
		STD	0010	0142	3287	2633	0016998	0017	14529								
	001	OBS	0010	0142	32873	2633			14529								
		STD	0020	0141	3288	2634	0016972	0034	14531								
		OBS	0020	0141	32876	2634			14531								
		OBS	0025	0141	32878	2634			14531								
		STD	0030	0141	3288	2634	0016954	0051	14532								
		OBS	0030	0141	32879	2634			14532								
		STD	0050	0141	3288	2634	0016946	0084	14536								
		OBS	0050	0141	32880	2634			14536								
		OBS	0053	0141	32880	2634			14536								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
318039	EV	4435 N	049035W		149	49	04	13	183	1968	001	10103	1024	1	06	2	2		X0	0	3	0064
						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									
						DT	SD	27	S03	305		072	056	7	24							

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 $\mu\text{g} \cdot \text{dl/l}$	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 CUT
		STD	0000	0036	3276	2631	0017260	0000	14478								
	183	OBS	0000	0036	32762	2631			14478								
		STD	0010	0026	3277	2632	0017122	0017	14476								
		OBS	0010	0026	32773	2632			14476								
		STD	0020	0026	3277	2632	0017119	0034	14477								
	003	OBS	0020	0026	32773	2632			14477								
		OBS	0025	0025	32773	2632			14478								
		STD	0030	0025	3278	2633	0017035	0051	14479								
		OBS	0030	0025	32783	2633			14479								
		OBS	0049	0050	32824	2635			14494								
		STD	0050	0042	3282	2635	0016833	0085	14490								
		OBS	0050	0042	32820	2635			14490								
		OBS	0062	-0080	32908	2647			14437								
		STD	0075	-0085	3301	2656	0014839	0124	14438								
		OBS	0075	-0085	33008	2656			14438								
		OBS	0085	-0083	33063	2660			14442								
		STD	0100	-0041	3318	2668	0013664	0160	14465								
		OBS	0100	-0041	33183	2668			14465								
		STD	0125	-0071	3326	2676	0012912	0193	14457								
		OBS	0125	-0071	33263	2676			14457								
		OBS	0143	-0095	33313	2681			14449								
		STD	0150	-0083	3345	2692	0011408	0224	14458								
		OBS	0150	-0083	33453	2692			14458								
		STD	0200	0167	3418	2736	0007292	0270	14590								
		OBS	0200	0167	34181	2736			14590								
		STD	0250	0292	3448	2750	0006086	0304	14657								
		OBS	0250	0292	34483	2750			14657								
		STD	0300	0362	3468	2760	0005292	0332	14698								
		OBS	0300	0362	34684	2760			14698								
		STD	0400	0415	3481	2764	0004962	0384	14738								
		OBS	0400	0415	34815	2764			14738								
		STD	0500	0427	3488	2769	0004690	0432	14761								
		OBS	0500	0427	34883	2769			14761								
		STD	0600	0414	3489	2771	0004575	0478	14772								
		OBS	0600	0414	34891	2771			14772								
		STD	0700	0407	3489	2772	0004580	0524	14786								
		OBS	0700	0407	34893	2772			14786								
		STD	0800	0397	3489	2773	0004558	0570	14798								
		OBS	0800	0397	34893	2773			14798								
		STD	0900	0385	3489	2774	0004508	0615	14810								
		OBS	0900	0385	34893	2774			14810								
		OBS	0962	0378	34902	2775			14817								

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	TIME INDEX	MARENGO SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	N/O	OAT		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA	TYPE	AMT	

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	27	SQ4	312	078	061	8	38	

MESSINGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANDWALT-2107	Σ Δ O 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	Si O ₄ -Si μg - dl/l	pH	S °C
197		STD	0000	0166	3293	2636	0016699	0000	14539								
		OBS	0000	0166	32933	2636			14539								
		OBS	0002	0115	33073	2651			14519								
003		STD	0010	0366	3350	2665	0013973	0015	14636								
		OBS	0010	0366	33503	2665			14636								
		STD	0020	0487	3377	2674	0013190	0028	14692								
		OBS	0020	0487	33769	2674			14692								
		OBS	0025	0578	33913	2674			14732								
		STD	0030	0599	3410	2686	0012033	0041	14743								
		OBS	0030	0599	3495P	2754P											
		STD	0050	0838	3447	2682	0012438	0066	14845								
		OBS	0050	0838	34473	2682			14845								
		STD	0075	0562	3415	2695	0011218	0095	14737								
		OBS	0075	0562	34153	2695			14737								
		OBS	0080	0504	34158	2703			14714								
		OBS	0096	0523	34208	2704			14725								
		STD	0100	0507	3421	2706	0010171	0122	14719								
		OBS	0100	0507	34212	2706			14719								
		OBS	0104	0479	34203	2709			14708								
		OBS	0113	0597	34413	2711			14760								
		STD	0125	0470	3430	2717	0009151	0146	14709								
		OBS	0125	0470	34298	2717			14709								
		STD	0150	0655	3471	2727	0008341	0168	14794								
		OBS	0150	0655	34707	2727			14794								
		OBS	0155	0713	34816	2728			14819								
		OBS	0175	0601	34645	2729			14775								
		OBS	0192	0696	34871	2734			14819								
		STD	0200	0561	3468	2737	0007400	0207	14764								
		OBS	0200	0561	34683	2737			14764								
		OBS	0212	0460	34534	2737			14722								
		OBS	0226	0510	34646	2740			14747								
		OBS	0241	0455	34595	2743			14726								
		STD	0250	0505	3470	2746	0006649	0242	14749								
		OBS	0250	0505	34703	2746			14749								
		STD	0300	0444	3471	2753	0005945	0274	14732								
		OBS	0300	0444	34712	2753			14732								
		OBS	0325	0506	34853	2757			14764								
		OBS	0342	0383	34693	2758			14714								
		STD	0400	0432	3481	2762	0005167	0329	14745								
		OBS	0400	0432	34813	2762			14745								
		STD	0500	0441	3488	2767	0004841	0379	14767								
		OBS	0500	0441	34884	2767			14767								
		STD	0600	0439	3491	2769	0004745	0427	14783								
		OBS	0600	0439	34907	2769			14783								
		STD	0700	0416	3490	2771	0004622	0474	14790								
		OBS	0700	0416	34901	2771			14790								
		STD	0800	0401	3491	2774	0004467	0520	14800								
		OBS	0800	0401	34911	2774			14800								
		STD	0900	0402	3492	2774	0004483	0564	14817								
		OBS	0900	0402	34923	2774			14817								
		STD	1000	0387	3491	2775	0004478	0609	14827								
		OBS	1000	0387	34912	2775			14827								
		STD	1100	0375	3490	2775	0004526	0654	14839								
		OBS	1100	0375	34898	2775			14839								
		STD	1200	0375	3491	2776	0004541	0700	14856								
		OBS	1200	0375	34907	2776			14856								
		STD	1300	0374	3491	2777	0004570	0745	14872								
		OBS	1300	0374	34913	2777			14872								
		STD	1400	0370	3491	2777	0004606	0791	14887								
		OBS	1400	0370	34913	2777			14887								
		STD	1500	0367	3492	2778	0004581	0837	14903								
		OBS	1500	0367	34923	2778			14903								

REFERENCE CTM CODE	SHIP ID. NO. CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE MO DAY HR, 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	4429 N	04833 W	149 48 04 13 212	1968	001	10105	2803	1	07	1	2		XO	0	3	0066
				WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	BARO- METER (mb x)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS					
				DT	SO	27	504	322	067	044	8	33					
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	SC
		STD	0000	1244	3544	2687	0011949	0000	14995								
212		OBS	0000	1244	35443	2687			14995								
		STD	0010	1192	3535	2690	0011667	0011	14978								
		OBS	0010	1192	35355	2690			14978								
		STD	0020	1193	3536	2690	0011692	0023	14980								
003		OBS	0020	1193	35357	2690			14980								
		OBS	0025	1193	35353	2689			14981								
		STD	0030	1190	3535	2690	0011691	0035	14981								
		OBS	0030	1190	35353	2690			14981								
		STD	0050	1226	3547	2692	0011528	0058	14998								
		OBS	0050	1226	35473	2692			14998								
		OBS	0069	1256	35563	2693			15012								
		STD	0075	1132	3529	2696	0011192	0086	14967								
		OBS	0075	1132	35295	2696			14967								
		STD	0100	1137	3537	2702	0010776	0114	14974								
		OBS	0100	1137	35372	2702			14974								
		OBS	0111	1171	35483	2704			14989								
		STD	0125	1170	3547	2703	0010692	0141	14991								
		OBS	0125	1170	35473	2703			14991								
		STD	0150	1115	3536	2705	0010568	0167	14974								
		OBS	0150	1115	35363	2705			14974								
		STD	0200	0832	3497	2722	0008926	0216	14874								
		OBS	0200	0832	34973	2722			14874								
		STD	0250	0658	3474	2729	0008258	0259	14812								
		OBS	0250	0658	34743	2729			14812								
		OBS	0265	0704	34856	2732			14834								
		OBS	0295	0556	34653	2735			14777								
		STD	0300	0578	3472	2738	0007451	0298	14788								
		OBS	0300	0578	34722	2738			14788								
		OBS	0320	0677	34915	2740			14833								
		OBS	0345	0516	34736	2747			14770								
		OBS	0351	0546	34822	2750			14784								
		STD	0400	0520	3487	2757	0005789	0364	14782								
		OBS	0400	0520	34867	2757			14782								
		OBS	0415	0476	34815	2758			14766								
		STD	0500	0510	3495	2764	0005201	0419	14796								
		OBS	0500	0510	34946	2764			14796								
		STD	0600	0476	3496	2769	0004789	0469	14799								
		OBS	0600	0476	34961	2769			14799								
		STD	0700	0457	3496	2771	0004691	0517	14807								
		OBS	0700	0457	34958	2771			14807								
		STD	0800	0429	3495	2774	0004530	0563	14812								
		OBS	0800	0429	34948	2774			14812								
		STD	0900	0424	3495	2774	0004566	0608	14827								
		OBS	0900	0424	34948	2774			14827								
		STD	1000	0406	3495	2776	0004444	0653	14836								
		OBS	1000	0406	34948	2776			14836								
		STD	1100	0404	3495	2777	0004479	0698	14852								
		OBS	1100	0404	34953	2777			14852								
		STD	1200	0408	3497	2778	0004495	0743	14870								
		OBS	1200	0408	34970	2778			14870								
		STD	1300	0398	3496	2778	0004521	0788	14883								
		OBS	1300	0398	34961	2778			14883								
		STD	1400	0381	3494	2778	0004519	0833	14892								
		OBS	1400	0381	34944	2778			14892								
		STD	1500	0374	3494	2779	0004545	0878	14906								
		OBS	1500	0374	34940	2779			14906								

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		NOOC STATION NUMBER
CRUY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	4426 N	04818 W	149	48	04	13	226	1968	001	10106	3182	1	06	1	3			X1	0	3	0067	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						DT	SO	32	504	328	067	044	7	30									

MESSNGR TIME HR 1/10	CAST OF NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma$ 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	Si O ₄ -Si µg - ml/l	pH	3 C
		STD	0000	1336	3575	2692	0011424	0000	15030								
226		OBS	0000	1336	35754	2692			15030								
		STD	0010	1331	3575	2693	0011353	0011	15030								
		OBS	0010	1331	35754	2693			15030								
		STD	0020	1329	3575	2693	0011354	0022	15031								
003		OBS	0020	1329	35753	2693			15031								
		OBS	0025	1326	35748	2694			15031								
		STD	0030	1321	3574	2694	0011309	0034	15030								
		OBS	0030	1321	35741	2694			15030								
		STD	0050	1306	3570	2694	0011355	0056	15028								
		OBS	0050	1306	35703	2694			15028								
		STD	0075	1241	3553	2694	0011415	0085	15008								
		OBS	0075	1241	35535	2694			15008								
		STD	0100	1231	3553	2696	0011344	0113	15008								
		OBS	0100	1231	35528	2696			15008								
		STD	0125	1225	3551	2696	0011390	0142	15010								
		OBS	0125	1225	35515	2696			15010								
		STD	0150	1213	3549	2696	0011407	0170	15010								
		OBS	0150	1213	35491	2696			15010								
		STD	0200	0813	3477	2710	0010106	0224	14864								
		OBS	0200	0813	34775	2710			14864								
		OBS	0201	0787	34776	2714			14854								
		OBS	0240	0788	34793	2715			14861								
		STD	0250	0889	3507	2721	0009157	0272	14905								
		OBS	0250	0889	35073	2721			14905								
		OBS	0265	0651	34663	2724			14810								
		OBS	0291	0821	35046	2730			14886								
		STD	0300	0772	3502	2735	0007914	0315	14868								
		OBS	0300	0772	3595P	2808P											
		OBS	0350	0628	34933	2748			14819								
		STD	0400	0630	3500	2754	0006178	0385	14829								
		OBS	0400	0630	35003	2754			14829								
		STD	0500	0520	3496	2764	0005203	0442	14800								
		OBS	0500	0520	34962	2764			14800								
		STD	0600	0480	3496	2769	0004831	0492	14800								
		OBS	0600	0480	34962	2769			14800								
		STD	0700	0447	3495	2772	0004603	0539	14803								
		OBS	0700	0447	34953	2772			14803								
		STD	0800	0432	3496	2774	0004456	0585	14814								
		OBS	0800	0432	34963	2774			14814								
		STD	0900	0425	3496	2775	0004453	0629	14827								
		OBS	0900	0425	34965	2775			14827								
		STD	1000	0418	3500	2779	0004224	0673	14842								
		OBS	1000	0418	34998	2779			14842								
		STD	1100	0408	3498	2778	0004330	0715	14854								
		OBS	1100	0408	34980	2778			14854								
		STD	1200	0397	3497	2779	0004348	0759	14866								
		OBS	1200	0397	34971	2779			14866								
		STD	1300	0393	3497	2779	0004382	0802	14881								
		OBS	1300	0393	34972	2779			14881								
		STD	1400	0384	3497	2780	0004362	0846	14894								
		OBS	1400	0384	34971	2780			14894								
		STD	1500	0375	3497	2781	0004338	0890	14907								
		OBS	1500	0375	34970	2781			14907								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	GUNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4423 N	04803 W		149	48	04	14	006	1968	001	10107	3500	1	06	2	4		X0	0	3	0068
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE											
						DT	SD	00	500	328	089	056	7										30

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 $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SI O ₂ -Si $\mu g - dl/l$	pH	3 CUT
		STD	0000	1227	3551	2695	0011117	0000	14990								
	006	OBS	0000	1227	35513	2695			14990								
		STD	0010	1227	3551	2695	0011143	0011	14992								
		OBS	0010	1227	35513	2695			14992								
		STD	0020	1227	3551	2695	0011169	0022	14994								
	003	OBS	0020	1227	35513	2695			14994								
		OBS	0025	1227	35513	2695			14995								
		STD	0030	1227	3551	2695	0011196	0033	14995								
		OBS	0030	1227	35513	2695			14995								
		STD	0050	1226	3551	2696	0011230	0055	14998								
		OBS	0050	1226	35513	2696			14998								
		STD	0075	1222	3551	2696	0011268	0084	15001								
		OBS	0075	1222	35507	2696			15001								
		STD	0100	1221	3551	2696	0011324	0112	15005								
		OBS	0100	1221	35506	2696			15005								
		STD	0125	1204	3547	2697	0011322	0140	15003								
		OBS	0125	1204	35472	2697			15003								
		STD	0150	1181	3541	2696	0011398	0169	14998								
		OBS	0150	1181	35412	2696			14998								
		OBS	0180	1175	35403	2697			15001								
		STD	0200	0997	3499	2697	0011381	0225	14935								
		OBS	0200	0997	34993	2697			14935								
		OBS	0235	0876	34951	2714			14896								
		STD	0250	1005	3525	2716	0009738	0278	14950								
		OBS	0250	1005	35250	2716			14950								
		STD	0300	0822	3491	2719	0009402	0326	14886								
		OBS	0300	0822	34913	2719			14886								
		OBS	0340	0638	34772	2734			14819								
		OBS	0350	0657	34843	2737			14829								
		OBS	0370	0582	34783	2743			14802								
		STD	0400	0597	3483	2745	0007009	0408	14813								
		OBS	0400	0597	34833	2745			14813								
		STD	0500	0552	3497	2761	0005527	0471	14813								
		OBS	0500	0552	34972	2761			14813								
		STD	0600	0487	3495	2767	0004984	0523	14803								
		OBS	0600	0487	34953	2767			14803								
		STD	0700	0457	3497	2772	0004575	0571	14808								
		OBS	0700	0457	34973	2772			14808								
		STD	0800	0445	3496	2773	0004614	0617	14819								
		OBS	0800	0445	34963	2773			14819								
		STD	0900	0432	3497	2775	0004486	0663	14830								
		OBS	0900	0432	34972	2775			14830								
		STD	1000	0417	3496	2776	0004488	0708	14841								
		OBS	1000	0417	34960	2776			14841								
		STD	1100	0403	3495	2777	0004467	0752	14851								
		OBS	1100	0403	34953	2777			14851								
		STD	1200	0396	3495	2777	0004478	0797	14865								
		OBS	1200	0396	34952	2777			14865								
		STD	1300	0385	3494	2778	0004481	0842	14877								
		OBS	1300	0385	34944	2778			14877								
		STD	1400	0378	3494	2779	0004483	0887	14891								
		OBS	1400	0378	34944	2779			14891								
		STD	1500	0377	3494	2779	0004556	0932	14908								
		OBS	1500	0377	34944	2779			14908								

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 SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	44210N	047520W	149	47	04	14	017	1968	001	10108		3640	1	06	2	4		X0	0	3	0069
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WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	00	SOO		089	056	7	26	
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MESSENGER TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-210°	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SI O ₄ -Si $\mu g - \text{at/l}$	pH	S C
		STD	0000	1324	3569	2690	0011641	0000	15025								
017		OBS	0000	1324	35692	2690			15025								
		STD	0010	1323	3569	2690	0011651	0011	15027								
		OBS	0010	1323	35692	2690			15027								
		STD	0020	1313	3567	2691	0011624	0023	15025								
002		OBS	0020	1313	35673	2691			15025								
		OBS	0025	1313	35672	2690			15026								
		STD	0030	1313	3567	2690	0011661	0034	15026								
		OBS	0030	1313	35672	2690			15026								
		STD	0050	1313	3567	2690	0011717	0058	15030								
		OBS	0050	1313	35672	2690			15030								
		STD	0075	1313	3567	2690	0011786	0087	15034								
		OBS	0075	1313	35672	2690			15034								
		STD	0100	1316	3568	2690	0011874	0117	15039								
		OBS	0100	1316	35678	2690			15039								
		STD	0125	1316	3568	2691	0011916	0147	15043								
		OBS	0125	1316	35681	2691			15043								
		OBS	0139	1307	35683	2693			15042								
		STD	0150	1167	3545	2702	0010862	0175	14994								
		OBS	0150	1167	35450	2702			14994								
		OBS	0155	1150	35433	2704			14988								
		OBS	0165	1177	35488	2703			15000								
		STD	0200	1097	3536	2708	0010420	0228	14976								
		OBS	0200	1097	35357	2708			14976								
		STD	0250	0976	3521	2717	0009579	0278	14939								
		OBS	0250	0976	35206	2717			14939								
		STD	0300	0567	3460	2730	0008198	0323	14782								
		OBS	0300	0567	34603	2730			14782								
		OBS	0350	0744	34983	2736			14865								
		STD	0400	0567	3482	2748	0006694	0397	14801								
		OBS	0400	0567	34823	2748			14801								
		OBS	0418	0616	34903	2748			14825								
		STD	0500	0547	3493	2759	0005745	0459	14811								
		OBS	0500	0547	34935	2759			14811								
		STD	0600	0492	3495	2767	0005044	0513	14805								
		OBS	0600	0492	34953	2767			14805								
		STD	0700	0467	3497	2771	0004699	0562	14812								
		OBS	0700	0467	34973	2771			14812								
		STD	0800	0462	3497	2772	0004745	0609	14826								
		OBS	0800	0462	34973	2772			14826								
		STD	0900	0428	3497	2776	0004433	0655	14829								
		OBS	0900	0428	34973	2776			14829								
		STD	1000	0416	3496	2776	0004459	0700	14840								
		OBS	1000	0416	34963	2776			14840								
		STD	1100	0398	3495	2777	0004401	0744	14849								
		OBS	1100	0398	34953	2777			14849								

REFERENCE CTRY CODE	ID. ND.	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	OBS NO.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318039		EV	4417 N	047315W		149	47	04	14	034	1968	001	10109	3840	1	06	1	4		X0	0	3	0070		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
						DT	SD	00	SOO	325	083	056	7			26									
MESSAGE TIME HR 1/10	CST ND.	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	SEC								
		STD	0000	0818	3427	2670	0013550	0000	14827																
034		OBS	0000	0818	34273	2670			14827																
		STD	0010	0818	3430	2672	0013341	0013	14829																
		OBS	0010	0818	34303	2672			14829																
002		STD	0020	0847	3446	2680	0012628	0026	14843																
		OBS	0020	0847	34458	2680			14843																
		OBS	0025	0877	34558	2683			14857																
		STD	0030	0957	3479	2688	0011849	0038	14890																
		OBS	0030	0957	34793	2688			14890																
		STD	0050	1107	3514	2689	0011806	0062	14952																
		OBS	0050	1107	35143	2689			14952																
		STD	0075	1107	3515	2690	0011830	0091	14956																
		OBS	0075	1107	35148	2690			14956																
		STD	0100	1106	3514	2690	0011898	0121	14960																
		OBS	0100	1106	35145	2690			14960																
		OBS	0108	1049	35096	2696			14941																
		STD	0125	1118	3528	2698	0011149	0150	14970																
		OBS	0125	1118	35283	2698			14970																
		OBS	0140	1187	35458	2699			14999																
		STD	0150	1097	3531	2704	0010626	0177	14967																
		OBS	0150	1097	35313	2704			14967																
		OBS	0185	0762	34653	2708			14840																
		STD	0200	0942	3515	2719	0009305	0227	14917																
		OBS	0200	0942	35153	2719			14917																
		STD	0250	0747	3489	2728	0008406	0271	14848																
		OBS	0250	0747	34888	2728			14848																
		OBS	0255	0782	3596P	2807P																			
		STD	0300	0436	3449	2737	0007493	0311	14726																
		OBS	0300	0436	34493	2737			14726																
		OBS	0350	0616	34873	2745			14813																
		STD	0400	0567	3486	2751	0006398	0380	14801																
		OBS	0400	0567	34863	2751			14801																
		STD	0500	0518	3495	2764	0005246	0439	14799																
		OBS	0500	0518	34953	2764			14799																
		STD	0600	0512	3500	2768	0004921	0489	14814																
		OBS	0600	0512	35003	2768			14814																
		STD	0700	0437	3492	2771	0004711	0538	14799																
		OBS	0700	0437	34923	2771			14799																
		STD	0800	0438	3498	2775	0004379	0583	14816																
		OBS	0800	0438	34983	2775			14816																
		STD	0900	0432	3498	2776	0004441	0627	14830																
		OBS	0900	0432	34978	2776			14830																
		STD	1000	0418	3497	2777	0004411	0671	14841																
		OBS	1000	0418	34973	2777			14841																
		STD	1100	0417	3497	2777	0004478	0716	14858																
		OBS	1100	0417	34975	2777			14858																

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT									
318039	EV		44125N	047105W		149	47	04	14	051	1968	001	10110	4005	1	06	2	2		X0	0	3	0071								
		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					DT	SD	17	S03	315	083	061	7	30										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH	S CC													
		STD	0000	0567	3552	2645	0015903	0000	14718																						
	051	OBS	0000	0567	35523	2645			14718																						
		STD	0010	1047	3499	2688	0011800	0013	14922																						
		OBS	0010	1047	34993	2688			14922																						
		STD	0020	1156	3525	2689	0011790	0025	14966																						
	002	OBS	0020	1156	35253	2689			14966																						
		STD	0030	1156	3527	2690	0011716	0037	14968																						
		OBS	0030	1156	35266	2690			14968																						
		STD	0050	1187	3534	2690	0011760	0060	14983																						
		OBS	0050	1187	35343	2690			14983																						
		STD	0075	1157	3527	2690	0011783	0090	14976																						
		OBS	0075	1157	35275	2690			14976																						
		STD	0100	1152	3528	2692	0011699	0119	14978																						
		OBS	0100	1152	35283	2692			14978																						
		STD	0125	0957	3491	2697	0011181	0148	14908																						
		OBS	0125	0957	34911	2697			14908																						
		STD	0150	0857	3483	2708	0010246	0175	14873																						
		OBS	0150	0857	34833	2708			14873																						
		OBS	0160	0676	34479	2706			14800																						
		OBS	0166	0747	34623	2708			14831																						
		OBS	0175	0597	34479	2717			14771																						
		OBS	0185	0667	34623	2719			14803																						
		STD	0200	0607	3454	2720	0009015	0223	14780																						
		OBS	0200	0607	34543	2720			14780																						
		STD	0250	0805	3502	2730	0008249	0266	14872																						
		OBS	0250	0805	35023	2730			14872																						
		OBS	0280	0672	34813	2733			14823																						
		OBS	0291	0716	34911	2735			14843																						
		STD	0300	0687	3486	2735	0007867	0306	14833																						
		OBS	0300	0687	34859	2735			14833																						
		OBS	0325	0478	34623	2742			14750																						
		OBS	0340	0572	34843	2749			14793																						
		OBS	0350	0504	34741	2749			14766																						
		STD	0400	0482	3484	2759	0005511	0373	14766																						
		OBS	0400	0482	34843	2759			14766																						
		OBS	0450	0529	34983	2765			14796																						
		STD	0500	0507	3496	2766	0005036	0426	14795																						
		OBS	0500	0507	34963	2766			14795																						
		STD	0600	0487	3500	2771	0004608	0474	14804																						
		OBS	0600	0487	35003	2771			14804																						
		STD	0700	0457	3497	2772	0004575	0520	14808																						
		OBS	0700	0457	34973	2772			14808																						
		STD	0800	0442	3496	2773	0004564	0566	14818																						
		OBS	0800	0442	34965	2773			14818																						
		STD	0900	0427	3497	2776	0004430	0611	14828																						
		OBS	0900	0427	34971	2776			14828																						
		STD	1000	0416	3497	2777	0004423	0655	14840																						
		OBS	1000	0416	34968	2777			14840																						
		STD	1100	0407	3496	2777	0004443	0699	14853																						
		OBS	1100	0407	34963	2777			14853																						

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRAFT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
318039	EV		4312 N	05016 W		150	30	04	14	170	1968	001	10111	0060	1	06	2	2		X1	0	3	0072																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
						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					DT	SD	08	S05	305	056	050	7	07																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

MESSAGE TIME OF HR 1/10	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 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 CODE
		STD	0000	0194	3291	2633	0017070	0000	14551								
177		OBS	0000	0194	32909	2633			14551								
		STD	0010	0166	3288	2632	0017081	0017	14540								
		OBS	0010	0166	32883	2632			14540								
		STD	0020	0145	3292	2637	0016692	0034	14533								
001		OBS	0020	0145	32917	2637			14533								
		OBS	0025	0145	32925	2637			14534								
		STD	0030	0145	3293	2637	0016611	0050	14535								
		OBS	0030	0145	32927	2637			14535								
		OBS	0042	0145	32927	2637			14537								
		STD	0050	0088	3294	2642	0016188	0083	14513								
		OBS	0050	0088	32937	2642			14513								
		OBS	0058	0085	32970	2645			14513								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

MESSAGE TIME HR 1/10	CARD 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 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
187		STD	0000	0121	3280	2629	0017451	0000	14517							
		OBS	0000	0121	32797	2629			14517							
001		OBS	0002	0083	32779	2629			14500							
		STD	0010	0079	3280	2631	0017205	0017	14500							
		OBS	0010	0079	32797	2631			14500							
		STD	0020	0076	3280	2632	0017140	0034	14500							
		OBS	0020	0076	32804	2632			14500							
		OBS	0025	0076	32805	2632			14501							
		STD	0030	0073	3281	2632	0017093	0051	14501							
		OBS	0030	0073	32808	2632			14501							
		STD	0050	0073	3281	2632	0017091	0085	14504							
		OBS	0050	0073	32808	2632			14504							
		STD	0075	-0002	3283	2638	0016556	0127	14474							
		OBS	0075	-0002	32827	2638			14474							
		STD	0100	-0024	3311	2661	0014310	0166	14472							
		OBS	0100	-0024	33107	2661			14472							
		STD	0125	-0012	3333	2679	0012672	0200	14485							
	OBS	0125	-0012	33328	2679			14485								
	OBS	0135	-0003	33448	2688			14492								
	STD	0150	0213	3414	2729	0007962	0226	14601								
	OBS	0150	0213	34137	2729			14601								
	OBS	0166	0244	34297	2740			14620								
	OBS	0168	0294	34471	2749			14644								
	OBS	0175	0295	34472	2749			14646								

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	M/RSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	M	O	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV	4244 N	050166W		150	20	04	14	200	1968		001	10114	1463	1	06	1	2		X1	0 3	0075	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	CODE	CODE	CODE	CODE	CODE								
		0T	50	08	510	288	056	056	7	28													
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY=σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC						
200		STD	0000	0118	3279	2629	0017460	0000	14516														
		OBS	0000	0118	32794	2629			14516														
		STD	0010	0046	3277	2630	0017267	0017	14485														
002		OBS	0010	0046	32767	2630			14485														
		STD	0020	-0006	3286	2641	0016303	0034	14464														
		OBS	0020	-0006	32861	2641			14464														
		STD	0030	-0014	3289	2644	0016009	0050	14462														
		OBS	0030	-0014	32894	2644			14462														
		OBS	0041	-0045	33006	2654			14451														
		STD	0050	-0027	3317	2666	0013858	0080	14463														
		OBS	0050	-0027	33167	2666			14463														
		STD	0075	-0022	3330	2676	0012883	0113	14472														
		OBS	0075	-0022	33297	2676			14472														
		STD	0100	-0005	3349	2691	0011463	0144	14486														
		OBS	0100	-0005	33492	2691			14486														
		STD	0125	0093	3380	2711	0009687	0170	14539														
		OBS	0125	0093	33797	2711			14539														
		OBS	0132	0174	33962	2718			14579														
		OBS	0138	0124	33957	2721			14557														
		STD	0150	0158	3401	2723	0008534	0193	14575														
		OBS	0150	0158	34007	2723			14575														
		OBS	0155	0186	34037	2723			14589														
		OBS	0175	0148	34056	2728			14575														
		STD	0200	0216	3427	2739	0007039	0232	14613														
		OBS	0200	0216	34266	2739			14613														
		OBS	0218	0340	34454	2743			14672														
		OBS	0232	0239	34371	2746			14629														
		STD	0250	0251	3442	2749	0006176	0265	14638														
		OBS	0250	0251	34422	2749			14638														
		STD	0300	0299	3456	2756	0005576	0294	14669														
		OBS	0300	0299	34564	2756			14669														
		OBS	0340	0370	34717	2761			14708														
		STD	0400	0398	3481	2766	0004793	0346	14731														
		OBS	0400	0398	34813	2766			14731														
		STD	0500	0406	3485	2768	0004682	0393	14752														
		OBS	0500	0406	34852	2768			14752														
		STD	0600	0414	3490	2771	0004530	0439	14772														
		OBS	0600	0414	34897	2771			14772														
		STD	0700	0419	3492	2773	0004493	0485	14791														
		OBS	0700	0419	34923	2773			14791														
		STD	0800	0399	3492	2774	0004410	0529	14799														
		OBS	0800	0399	34916	2774			14799														
		STD	0900	0386	3491	2775	0004368	0573	14810														
		OBS	0900	0386	34913	2775			14810														
		STD	1000	0383	3492	2776	0004379	0617	14826														
		OBS	1000	0383	34919	2776			14826														
		STD	1100	0374	3492	2777	0004338	0660	14839														
		OBS	1100	0374	34922	2777			14839														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODG STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR,1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4233 N	05017 W		150	20	04	14	212	1968		001	10115	2542	1	06	1	2		X2	0	3	0076
						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	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	
						01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
MESSAGE TIME & HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SIO ₄ -Si $\mu g - at/l$	pH	S.C.							
		STO	0000	0214	3296	2636	0016790	0000	14561															
	212	OBS	0000	0214	32965	2636			14561															
		STO	0010	0225	3306	2642	0016177	0016	14569															
		OBS	0010	0225	33056	2642			14569															
		STO	0020	0218	3309	2645	0015899	0032	14568															
	003	OBS	0020	0218	33087	2645			14568															
		OBS	0025	0244	33396	2668			14584															
		STO	0030	0274	3349	2672	0013311	0047	14599															
		OBS	0030	0274	33487	2672			14599															
		OBS	0040	0279	33535	2676			14604															
		STO	0050	0244	3379	2699	0010814	0071	14594															
		OBS	0050	0244	33787	2699			14594															
		OBS	0051	0219	33832	2704			14583															
		STO	0075	0356	3412	2715	0009303	0096	14650															
		OBS	0075	0356	34117	2715			14650															
		STO	0100	0333	3417	2722	0008694	0118	14645															
		OBS	0100	0333	34172	2722			14645															
		OBS	0110	0299	34192	2726			14633															
		STO	0125	0336	3431	2733	0007667	0139	14653															
		OBS	0125	0336	34315	2733			14653															
		STO	0150	0306	3433	2736	0007313	0158	14644															
		OBS	0150	0306	34327	2736			14644															
		OBS	0170	0356	34447	2741			14670															
		OBS	0190	0338	34507	2748			14667															
		STO	0200	0361	3456	2750	0006124	0191	14679															
		OBS	0200	0361	34560	2750			14679															
		STO	0250	0446	3477	2758	0005445	0220	14726															
		OBS	0250	0446	34775	2758			14726															
		STO	0300	0493	3490	2762	0005127	0247	14755															
		OBS	0300	0493	34897	2762			14755															
		OBS	0350	0513	34961	2765			14773															
		STO	0400	0500	3498	2768	0004730	0296	14776															
		OBS	0400	0500	34977	2768			14776															
		STO	0500	0459	3497	2772	0004442	0342	14775															
		OBS	0500	0459	34966	2772			14775															
		STO	0600	0423	3495	2774	0004249	0385	14777															
		OBS	0600	0423	34949	2774			14777															
		STO	0700	0412	3496	2776	0004143	0427	14789															
		OBS	0700	0412	34960	2776			14789															
		STO	0800	0386	3494	2777	0004109	0468	14794															
		OBS	0800	0386	34936	2777			14794															
		STO	0900	0375	3493	2778	0004131	0510	14806															
		OBS	0900	0375	34928	2778			14806															
		STO	1000	0363	3493	2779	0004092	0551	14818															
		OBS	1000	0363	34926	2779			14818															
		STO	1100	0360	3493	2779	0004132	0592	14833															
		OBS	1100	0360	34927	2779			14833															
		STO	1200	0360	3493	2779	0004180	0633	14850															
		OBS	1200	0360	34932	2779			14850															
		STO	1300	0368	3496	2781	0004146	0675	14870															
		OBS	1300	0368	34961	2781			14870															
		STO	1400	0362	3495	2781	0004218	0717	14884															
		OBS	1400	0362	34952	2781			14884															
		STO	1500	0357	3495	2781	0004238	0759	14899															
		OBS	1500	0357	34952	2781			14899															

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT FOOT	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	M/O		DAY	HR./1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318039	EV		4213 N	05017 W		150	20	04	14	235	1968	001	10116	3246	1	09	1	4		X2	0	3	0077
							WATER		WIND			AIR TEMP. °C											
							COLOR	TRANS.	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
							DT	SD	09	S10	274	056	044	6	29								

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	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 CC
		STD	0000	0219	3294	2633	0017034	0000	14563								
235		OBS	0000	0219	32937	2633			14563								
		STD	0010	0026	3278	2632	0017077	0017	14476								
		OBS	0010	0026	32779	2632			14476								
		STD	0020	-0015	3309	2659	0014538	0032	14463								
002		OBS	0020	-0015	33087	2659			14463								
		OBS	0025	0006	33287	2674			14476								
		STD	0030	0008	3334	2678	0012728	0046	14478								
		OBS	0030	0008	33337	2678			14478								
		OBS	0033	0006	33397	2683			14479								
		OBS	0040	0008	33487	2690			14482								
		STD	0050	0106	3378	2708	0009910	0069	14532								
		OBS	0050	0106	33777	2708			14532								
		STD	0075	0386	3424	2722	0008695	0092	14665								
		OBS	0075	0386	34237	2722			14665								
		STD	0100	0576	3458	2727	0008212	0113	14752								
		OBS	0100	0576	34582	2727			14752								
		OBS	0112	0641	34702	2729			14782								
		STD	0125	0566	3461	2731	0007935	0133	14752								
		OBS	0125	0566	34607	2731			14752								
		STD	0150	0306	3425	2730	0007881	0153	14643								
		OBS	0150	0306	34252	2730			14643								
		OBS	0160	0289	34327	2738			14639								
		STD	0200	0451	3464	2746	0006483	0189	14718								
		OBS	0200	0451	34637	2746			14718								
		STD	0250	0576	3484	2748	0006502	0221	14780								
		OBS	0250	0576	34837	2748			14780								
		STD	0300	0514	3483	2754	0005888	0252	14763								
		OBS	0300	0514	34827	2754			14763								
		OBS	0318	0555	34907	2756			14784								
		OBS	0335	0451	34787	2758			14742								
		STD	0400	0486	3492	2765	0005004	0307	14769								
		OBS	0400	0486	34917	2765			14769								
		OBS	0420	0472	34912	2766			14767								
		OBS	0435	0511	35037	2771			14787								
		STD	0500	0485	3504	2775	0004195	0353	14787								
		OBS	0500	0407P	3504	2783P											
		STD	0600	0460	3499	2773	0004400	0396	14792								
		OBS	0600	0460	34987	2773			14792								
		STD	0700	0455	3500	2775	0004376	0440	14807								
		OBS	0700	0455	34997	2775			14807								
		STD	0800	0444	3501	2777	0004274	0483	14819								
		OBS	0800	0444	35007	2777			14819								
		STD	0900	0428	3500	2778	0004220	0525	14829								
		OBS	0900	0428	35002	2778			14829								
		STD	1000	0415	3499	2779	0004226	0568	14840								
		OBS	1000	0415	34992	2779			14840								
		STD	1100	0396	3498	2780	0004166	0610	14849								
		OBS	1100	0396	34982	2780			14849								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT. METER	MARSDEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'EMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER														
CTRY CODE	IO. NO.					10"	1"	MO	OAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT															
318039	EV		4152 N	050172W	150	10	04	15	020	1968	001	10117		3695	1	09	2	3			X2	0	3	0078														
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	ORT BULB	WET BULB	ORT BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS																											
		DT	SD	09	S10	268	078	078	7	34																												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH																					
		STD	0000	0436	3316	2631	0017242		0000	14659																												
020		OBS	0000	0436	33157	2631				14659																												
		STD	0010	0436	3316	2631	0017251		0017	14661																												
		OBS	0010	0436	33157	2631				14661																												
		STD	0020	0406	3313	2632	0017131		0034	14649																												
003		OBS	0020	0406	33135	2632				14649																												
		OBS	0025	0386	33039	2626				14640																												
		STD	0030	0276	3316	2646	0015816		0050	14596																												
		OBS	0030	0276	33157	2646				14596																												
		STD	0050	0166	3356	2686	0011969		0078	14556																												
		OBS	0050	0166	33557	2686				14556																												
		OBS	0060	0147	33687	2698				14551																												
		STD	0075	0251	3401	2716	0009219		0105	14604																												
		OBS	0075	0251	34006	2716				14604																												
		STD	0100	0435	3438	2728	0008160		0126	14691																												
		OBS	0100	0435	34377	2728				14691																												
		OBS	0111	0356	34347	2733				14659																												
		STD	0125	0407	3445	2736	0007355		0146	14685																												
		OBS	0125	0407	34449	2736				14685																												
		OBS	0130	0381	34452	2739				14675																												
		OBS	0140	0425	34517	2740				14696																												
		STD	0150	0366	3446	2741	0006904		0164	14672																												
		OBS	0150	0366	34457	2741				14672																												
		OBS	0155	0322	34427	2743				14653																												
		STD	0200	0456	3465	2747	0006459		0197	14720																												
		OBS	0200	0456	34647	2747				14720																												
		OBS	0205	0421	34607	2747				14706																												
		OBS	0238	0568	34987	2760				14777																												
		STD	0250	0529	3495	2762	0005117		0226	14762																												
		OBS	0250	0529	34947	2762				14762																												
		OBS	0270	0567	35012	2762				14782																												
		STD	0300	0541	3499	2764	0005027		0251	14776																												
		OBS	0300	0541	34987	2764				14776																												
		OBS	0302	0496	34927	2764				14757																												
		OBS	0310	0525	34987	2766				14771																												
		OBS	0312	0496	34945	2766				14759																												
		OBS	0350	0514	34987	2767				14773																												
		STD	0400	0489	3500	2771	0004451		0299	14771																												
		OBS	0400	0489	34997	2771				14771																												
		STD	0500	0467	3501	2774	0004228		0342	14779																												
		OBS	0500	0467	35007	2774				14779																												
		STD	0600	0455	3502	2776	0004116		0384	14791																												
		OBS	0600	0455	35017	2776				14791																												
		STD	0700	0437	3501	2778	0004051		0425	14800																												
		OBS	0700	0437	35012	2778				14800																												
		STD	0800	0397	3497	2778	0004006		0465	14799																												
		OBS	0800	0397	34967	2778				14799																												
		STD	0900	0389	3497	2780	0003966		0505	14812																												
		OBS	0900	0389	34972	2780				14812																												
		STD	1000	0376	3496	2780	0003982		0545	14823																												
		OBS	1000	0376	34962	2780				14823																												
		STD	1100	0375	3497	2781	0004013		0585	14840																												
		OBS	1100	0375	34967	2781				14840																												
		STD	1200	0363	3496	2782	0003968		0624	14851																												
		OBS	1200	0363	34965	2782				14851																												

REFERENCE		SHIP	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
3180	039	EV	4836 N	04610 W	149 86	04	16	173	1968	001	10118	2012	1	05	12		X1	03		0079

318039	EV	4836 N	04610 W	149	86	04	16	173	1968	001	10118	2012	1	05	1	2		X1	0	3	0079
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WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL
COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET				
CODE	IM	OR	OR FORCE	(mb)	BULB	BULB		CODE	OBS.	OBSERVATIONS
DT	SD	OS	S08	261	050	044	7	28		

MESSNGR	CST	CARD	DEPTH	T °C	S ‰	SIGMA-T	SPECIFIC	Σ Δ σ	SOUND	O ₂	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	Σ
TIME	OF	TYPE	(m)				ANOMALY-3107	DYN. M.	VELOCITY	ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l		C
HR 1/10	ND.							X 10 ³									
		STD	0000	0051	3348	2688	0011840	0000	14495								
173		OBS	0000	0051	33482	2688			14495								
		OBS	0001	-0051	33437	2689			14448								
		STD	0010	-0032	3348	2692	0011448	0011	14459								
003		OBS	0010	-0032	33482	2692			14459								
		STD	0020	-0023	3349	2692	0011382	0023	14465								
		OBS	0020	-0023	33495	2692			14465								
		OBS	0025	-0021	33498	2693			14467								
		STD	0030	-0026	3349	2693	0011370	0034	14465								
		OBS	0030	-0026	33494	2693			14465								
		OBS	0038	-0066	33652	2707			14450								
		STD	0050	0060	3401	2729	0007890	0053	14515								
		OBS	0050	0060	34007	2729			14515								
		STD	0075	0230	3449	2756	0005381	0070	14601								
		OBS	0075	0230	34492	2756			14601								
		STD	0100	0285	3460	2760	0005029	0083	14631								
		OBS	0100	0285	34602	2760			14631								
		STD	0125	0336	3474	2766	0004495	0095	14659								
		OBS	0125	0336	34737	2766			14659								
		STD	0150	0396	3483	2768	0004393	0106	14689								
		OBS	0150	0396	34832	2768			14689								
		STD	0200	0439	3491	2770	0004282	0128	14717								
		OBS	0200	0439	34914	2770			14717								
		STD	0250	0442	3494	2771	0004175	0149	14727								
		OBS	0250	0442	34939	2771			14727								
		STD	0300	0436	3494	2772	0004134	0169	14732								
		OBS	0300	0436	34943	2772			14732								
		OBS	0350	0414	34922	2773			14731								
		STD	0400	0418	3493	2773	0004123	0211	14741								
		OBS	0400	0418	34932	2773			14741								
		STD	0500	0386	3492	2776	0003987	0251	14744								
		OBS	0500	0386	34916	2776			14744								
		STD	0600	0380	3492	2777	0003954	0291	14758								
		OBS	0600	0380	34923	2777			14758								
		STD	0700	0369	3492	2778	0003927	0330	14770								
		OBS	0700	0369	34923	2778			14770								
		STD	0800	0359	3492	2779	0003887	0369	14783								
		OBS	0800	0359	34924	2779			14783								
		STD	0900	0354	3493	2780	0003899	0408	14797								
		OBS	0900	0354	34927	2780			14797								
		STD	1000	0349	3493	2780	0003907	0447	14812								
		OBS	1000	0349	34929	2780			14812								
		STD	1100	0346	3494	2781	0003900	0486	14827								
		OBS	1100	0346	34936	2781			14827								
		STD	1200	0344	3494	2782	0003886	0525	14843								
		OBS	1200	0344	34945	2782			14843								
		STD	1300	0337	3495	2783	0003863	0564	14857								
		OBS	1300	0337	34947	2783			14857								
		STD	1400	0333	3495	2784	0003856	0603	14872								
		OBS	1400	0333	34952	2784			14872								
		STD	1500	0326	3496	2785	0003819	0641	14886								
		OBS	1500	0326	34956	2785			14886								

REFERENCE CTRY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIRECTION	MARSOEN SOURCE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV	48215N	04612 W		149	86	04	16	194	1968	001	10119	1079	1	03	1	2		X1	0	3		0080
					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																
OT		SD	06	507	261	050	044	7	23														
MESSNGR TIME HR 1/10	CST NO.	CARO 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 ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S °C						
194		STD	0000	0021	3331	2675	0013025	0000	14479														
		OBS	0000	0021	33307	2675			14479														
002		OBS	0001	-0084	33267	2677			14430														
		STD	0010	-0091	3329	2679	0012685	0012	14429														
		OBS	0010	-0091	33291	2679			14429														
		STD	0020	-0054	3337	2684	0012194	0025	14449														
		OBS	0020	-0054	33372	2684			14449														
		OBS	0021	-0127	33397	2688			14415														
		OBS	0025	-0104	33464	2693			14428														
		STD	0030	-0120	3359	2704	0010313	0036	14423														
		OBS	0030	-0120	33587	2704			14423														
		OBS	0037	0026	33807	2715			14494														
		STD	0050	0061	3393	2723	0008504	0055	14514														
		OBS	0050	0061	33927	2723			14514														
		STD	0075	0115	3413	2736	0007315	0075	14545														
		OBS	0075	0115	34127	2736			14545														
		STD	0100	0188	3435	2748	0006122	0091	14585														
		OBS	0100	0188	34353	2748			14585														
		STD	0125	0239	3443	2750	0005968	0107	14612														
		OBS	0125	0239	34427	2750			14612														
		STD	0150	0262	3452	2756	0005504	0121	14628														
		OBS	0150	0262	34517	2756			14628														
		STD	0200	0407	3482	2766	0004608	0146	14702														
		OBS	0200	0407	34825	2766			14702														
		OBS	0210	0429	34879	2768			14714														
		STD	0250	0440	3490	2768	0004470	0169	14725														
		OBS	0250	0440	34897	2768			14725														
		STD	0300	0442	3491	2769	0004471	0191	14734														
		OBS	0300	0442	34907	2769			14734														
		STD	0400	0439	3492	2770	0004430	0236	14750														
		OBS	0400	0439	34922	2770			14750														
		STD	0500	0437	3494	2772	0004353	0280	14766														
		OBS	0500	0437	34943	2772			14766														
		STD	0600	0413	3493	2774	0004297	0323	14772														
		OBS	0600	0413	34927	2774			14772														
		STD	0700	0404	3493	2775	0004236	0366	14785														
		OBS	0700	0404	34934	2775			14785														
		STD	0800	0389	3493	2776	0004213	0408	14795														
		OBS	0800	0389	34927	2776			14795														
		STD	0900	0375	3492	2777	0004158	0450	14806														
		OBS	0900	0375	34924	2777			14806														

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	EMT INDIC	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./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		48025N	04613 W		149	86	04	16	215	1968	001	10120	1189	1	03	1	2		X1	0	3	0081

WATER		WIND		BARO- METER Inches	AIR TEMP. °C		VIX CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	OS	SOS	261	022	017	7	25	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDOMAL-210°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	S C
		STD	0000	0005	3332	2677	0012871	0000	14472								
		OBS	0000	0005	33317	2677			14472								
		STD	0010	-0059	3334	2681	0012433	0012	14444								
		OBS	0010	-0059	33339	2681			14444								
		OBS	0012	-0068	33417	2688			14442								
		STD	0020	-0058	3349	2693	0011299	0024	14448								
		OBS	0020	-0058	33487	2693			14448								
		OBS	0025	-0042	33567	2699			14458								
		STD	0030	-0036	3360	2701	0010546	0035	14462								
		OBS	0030	-0036	33597	2701			14462								
		STD	0050	-0050	3397	2732	0007648	0053	14464								
		OBS	0050	-0050	33967	2732			14464								
		STD	0075	0115	3413	2736	0007315	0072	14545								
		OBS	0075	0115	34127	2736			14545								
		STD	0100	0157	3428	2745	0006456	0089	14570								
		OBS	0100	0157	34279	2745			14570								
		STD	0125	0216	3439	2749	0006050	0105	14602								
		OBS	0125	0216	34392	2749			14602								
		STD	0150	0248	3453	2758	0005246	0119	14622								
		OBS	0150	0248	34535	2758			14622								
		STD	0200	0271	3460	2761	0005007	0144	14641								
		OBS	0200	0271	34597	2761			14641								
		OBS	0245	0399	34804	2765			14706								
		STD	0250	0396	3480	2765	0004713	0169	14705								
		OBS	0250	0396	34801	2765			14705								
		OBS	0259	0382	34805	2767			14701								
		OBS	0280	0443	34905	2769			14731								
		STD	0300	0445	3491	2769	0004464	0192	14736								
		OBS	0300	0445	34912	2769			14736								
		STD	0400	0429	3491	2770	0004411	0236	14745								
		OBS	0400	0429	34909	2770			14745								
		STD	0500	0414	3495	2775	0004075	0279	14756								
		OBS	0500	0414	34946	2775			14756								
		STD	0600	0393	3491	2775	0004178	0320	14764								
		OBS	0600	0393	34913	2775			14764								
		STD	0700	0369	3490	2776	0004114	0361	14770								
		OBS	0700	0369	34897	2776			14770								
		STD	0800	0364	3491	2777	0004075	0402	14784								
		OBS	0800	0364	34907	2777			14784								
		STD	0900	0358	3491	2778	0004067	0443	14799								
		OBS	0900	0358	34910	2778			14799								
		STD	1000	0355	3492	2779	0004019	0483	14814								
		OBS	1000	0355	34923	2779			14814								
		OBS	1050	0351	34923	2780			14821								

REFERENCE TAG CODE	IO, NO.	SNIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DOUBT INDIC	MARSden SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
						10'	1'	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER				DIR	HGT	PER	SEA		TYPE	AMT				
						10'	1'	MO	DAY	HR.1/10																	
318039	EV		47435N	046148W		149	76	04	16	234	1968	001	10121		1097	1	03	2	2		X1	0	3	0082			
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	ORY BULB		WET BULB															
						DT	SD	03	508	261	022	017	7														
MESSENGER TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S A D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C										
		STD	0000	0095	3335	2674	0013115	0000	14513																		
234		OBS	0000	0095	33346	2674			14513																		
		STD	0010	-0009	3336	2681	0012498	0012	14468																		
		OBS	0010	-0009	33357	2681			14468																		
		STD	0020	-0014	3339	2683	0012250	0025	14467																		
002		OBS	0020	-0014	33387	2683			14467																		
		OBS	0025	-0023	33417	2686			14464																		
		STD	0030	-0023	3343	2687	0011894	0037	14465																		
		OBS	0030	-0023	33427	2687			14465																		
		OBS	0036	0042	33547	2693			14498																		
		OBS	0040	0007	33587	2698			14483																		
		STD	0050	0024	3379	2714	0009366	0058	14495																		
		OBS	0050	0024	33787	2714			14495																		
		OBS	0065	0311	34087	2717			14629																		
		OBS	0071	0188	34187	2735			14578																		
		STD	0075	0211	3422	2736	0007271	0079	14589																		
		OBS	0075	0211	34222	2736			14589																		
		OBS	0095	0269	34337	2741			14619																		
		STD	0100	0222	3439	2749	0006122	0096	14600																		
		OBS	0100	0222	34387	2749			14600																		
		STD	0125	0307	3453	2752	0005801	0111	14643																		
		OBS	0125	0307	34527	2752			14643																		
		STD	0150	0386	3479	2765	0004623	0124	14685																		
		OBS	0150	0386	34787	2765			14685																		
		STD	0200	0435	3486	2766	0004658	0147	14714																		
		OBS	0200	0435	34857	2766			14714																		
		STD	0250	0446	3491	2768	0004456	0170	14728																		
		OBS	0250	0446	34907	2768			14728																		
		STD	0300	0446	3492	2770	0004402	0192	14736																		
		OBS	0300	0446	34922	2770			14736																		
		STD	0400	0436	3494	2772	0004284	0235	14749																		
		OBS	0400	0436	34937	2772			14749																		
		STD	0500	0419	3493	2773	0004233	0278	14758																		
		OBS	0500	0419	34932	2773			14758																		
		STD	0600	0396	3492	2775	0004183	0320	14765																		
		OBS	0600	0396	34917	2775			14765																		
		STD	0700	0381	3492	2776	0004108	0361	14775																		
		OBS	0700	0381	34917	2776			14775																		
		STD	0800	0372	3492	2777	0004091	0402	14788																		
		OBS	0800	0372	34917	2777			14788																		
		STD	0900	0366	3492	2778	0004067	0443	14802																		
		OBS	0900	0366	34922	2778			14802																		
		STD	1000	0358	3493	2779	0004026	0483	14816																		
		OBS	1000	0358	34927	2779			14816																		

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'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
318039	EV		47235N	046165W		149	76	04	17	015	1968	001	10122		0540	1	06	2	4		X0	0	3		0083
						WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	NO. DBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
						DT	SD	05	S08	257	050	044	7	21											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PD 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 D ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C						
		STD	0000	0401	3349	2661	0014418		0000		14649														
015		OBS	0000	0401	33487	2661					14649														
		STD	0010	0401	3349	2661	0014426		0014		14650														
		OBS	0010	0401	33487	2661					14650														
002		OBS	0019	0400	33477	2660					14651														
		STD	0020	0391	3349	2662	0014334		0028		14648														
		OBS	0020	0391	33487	2662					14648														
		OBS	0025	0387	33502	2663					14647														
		STD	0030	0376	3353	2666	0013906		0042		14644														
		OBS	0030	0376	33527	2666					14644														
		OBS	0040	0371	33682	2679					14645														
		STD	0050	0396	3395	2698	0010951		0067		14661														
		OBS	0050	0396	33947	2698					14661														
		OBS	0060	0406	33997	2700					14667														
		STD	0075	0377	3419	2719	0008982		0092		14660														
		OBS	0075	0377	34187	2719					14660														
		STD	0100	0465	3454	2737	0007274		0113		14706														
		OBS	0100	0465	34537	2737					14706														
		OBS	0120	0444	34587	2743					14701														
		STD	0125	0456	3464	2746	0006460		0130		14708														
		OBS	0125	0456	34637	2746					14708														
		OBS	0130	0466	34652	2746					14713														
		OBS	0135	0445	34677	2750					14705														
		STD	0150	0466	3473	2752	0005914		0145		14717														
		OBS	0150	0466	34727	2752					14717														
		STD	0200	0512	3491	2761	0005154		0173		14747														
		OBS	0200	0512	34907	2761					14747														
		STD	0250	0515	3494	2763	0005019		0198		14757														
		OBS	0250	0515	34937	2763					14757														
		STD	0300	0467	3492	2767	0004677		0223		14745														
		OBS	0300	0467	34917	2767					14745														
		STD	0400	0435	3492	2770	0004417		0468		14748														
		OBS	0400	0435	34917	2770					14748														
		STD	0500	0422	3494	2773	0004227		0311		14759														
		OBS	0500	0422	34937	2773					14759														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLUD 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				
318039	EV		47035N	04618 W	149	76	04	17	036	1968	001	10123		0320	1	06	2	4		X1	0	3		0084	
						WATER		WIND		AIR TEMP. °C		NO. DBS. DEPTHS		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE												
						DT	SD	06	S08	251	056	050	7	18											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} + \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0433	3351	2659	0014581		0000		14662														
036		OBS	0000	0433	33507	2659					14662														
		STD	0010	0434	3351	2659	0014599		0014		14664														
		OBS	0010	0434	33507	2659					14664														
001		OBS	0013	0467	33512	2656					14679														
		STD	0020	0406	3360	2669	0013656		0028		14656														
		OBS	0020	0406	33597	2669					14656														
		OBS	0025	0276	33472	2671					14599														
		STD	0030	0217	3372	2696	0011083		0041		14578														
		OBS	0030	0217	33722	2696					14578														
		STD	0050	0401	3412	2711	0009723		0061		14665														
		OBS	0050	0401	34117	2711					14665														
		OBS	0060	0371	34187	2719					14655														
		STD	0075	0456	3444	2730	0007904		0083		14697														
		OBS	0075	0456	34437	2730					14697														
		STD	0100	0367	3434	2731	0007773		0103		14662														
		OBS	0100	0367	34337	2731					14662														
		STD	0125	0431	3464	2749	0006191		0121		14697														
		OBS	0125	0431	34637	2749					14697														
		OBS	0147	0555	34872	2753					14755														
		STD	0150	0541	3486	2753	0005806		0136		14750														
		OBS	0150	0541	34857	2753					14750														
		OBS	0160	0515	34837	2755					14740														
		OBS	0175	0536	34887	2756					14752														
		STD	0200	0506	3486	2758	0005421		0164		14744														
		OBS	0200	0506	34862	2758					14744														
		OBS	0225	0547	34922	2758					14765														
		STD	0250	0515	3490	2760	0005261		0190		14756														
		OBS	0250	0515	34905	2760					14756														

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	OBS INDIC	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	ID. ND.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
318039	EV		47038N	046362W		149	76	04	17	048	1968	001	10124	0640	1	03	1	2		X0	0	3	0085				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB	VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						DT	SD	06	S09	251		056	050	7		25											
MESSENGR TIME OF HR 1/10	CARD 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 - ml/l		TOTAL-P μg - ml/l		NO ₃ -N μg - ml/l		NO ₃ -N μg - ml/l		Si O ₄ -Si μg - ml/l		pH	
		STD	0000	0367	3343	2659		0014554		0000		14633															
048		OBS	0000	0367	33426	2659						14633															
		STD	0010	0367	3343	2659		0014561		0014		14635															
		OBS	0010	0367	33426	2659						14635															
		STD	0020	0246	3357	2681		0012473		0028		14586															
001		OBS	0020	0246	33567	2681						14586															
		OBS	0025	0261	33592	2682						14594															
		STD	0030	0247	3359	2683		0012332		0040		14589															
		OBS	0030	0247	33587	2683						14589															
		OBS	0046	0201	33647	2691						14572															
		STD	0050	0166	3399	2721		0008717		0061		14562															
		OBS	0050	0166	33987	2721						14562															
		OBS	0057	0356	34217	2723						14649															
		OBS	0062	0290	34287	2735						14622															
		STD	0075	0411	3450	2740		0006985		0081		14679															
		OBS	0075	0411	34497	2740						14679															
		STD	0100	0431	3462	2747		0006319		0097		14693															
		OBS	0100	0431	34617	2747						14693															
		STD	0125	0485	3475	2751		0005955		0113		14721															
		OBS	0125	0485	34746	2751						14721															
		STD	0150	0459	3477	2756		0005542		0127		14715															
		OBS	0150	0459	34767	2756						14715															
		OBS	0180	0448	34837	2763						14716															
		STD	0200	0465	3488	2764		0004843		0153		14727															
		OBS	0200	0465	34877	2764						14727															
		OBS	0222	0510	34949	2764						14750															
		OBS	0228	0486	34927	2765						14741															
		OBS	0235	0504	34947	2765						14750															
		STD	0250	0466	3490	2766		0004702		0177		14736															
		OBS	0250	0466	34905	2766						14736															
		OBS	0260	0459	34896	2766						14735															
		OBS	0270	0488	34957	2768						14749															
		STD	0300	0481	3496	2768		0004535		0200		14751															
		OBS	0300	0481	34957	2768						14751															
		STD	0400	0455	3497	2772		0004275		0244		14757															
		OBS	0400	0455	34967	2772						14757															
		STD	0500	0421	3495	2774		0004146		0286		14759															
		OBS	0500	0421	34946	2774						14759															
		OBS	0575	0421	34947	2774						14772															

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

318039	EV	4704 N	04650 W	149	76	04	17	059	1968	001	10125	1189	1	09	2	2		X0	0	3		0086
					WATER				WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULB	WET BULB												
					DT	SD	09	S08	251	061		050	7	21								

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	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	0245	3343	2670	0013523	0000	14581								
	059	OBS	0000	0245	33426	2670			14581								
		STD	0010	0181	3347	2678	0012747	0013	14555								
		OBS	0010	0181	33467	2678			14555								
		STD	0020	0166	3354	2685	0012116	0025	14551								
	003	OBS	0020	0166	33537	2685			14551								
		OBS	0025	0148	33657	2696			14545								
		STD	0030	0146	3373	2701	0010544	0036	14546								
		OBS	0030	0146	33727	2701			14546								
		STD	0050	0171	3398	2720	0008826	0056	14564								
		OBS	0050	0171	33977	2720			14564								
		STD	0075	0251	3429	2738	0007099	0076	14608								
		OBS	0075	0251	34287	2738			14608								
		STD	0100	0341	3452	2748	0006170	0092	14654								
		OBS	0100	0341	34517	2748			14654								
		STD	0125	0389	3466	2755	0005610	0107	14680								
		OBS	0125	0389	34657	2755			14680								
		STD	0150	0455	3485	2763	0004901	0120	14714								
		OBS	0150	0455	34847	2763			14714								
		OBS	0190	0472	34889	2764			14728								
		STD	0200	0445	3487	2766	0004645	0144	14719								
		OBS	0200	0445	34874	2766			14719								
		STD	0250	0437	3491	2769	0004361	0167	14724								
		OBS	0250	0437	34907	2769			14724								
		STD	0300	0426	3491	2771	0004297	0188	14728								
		OBS	0300	0426	34906	2771			14728								
		STD	0400	0406	3491	2773	0004174	0231	14736								
		OBS	0400	0406	34907	2773			14736								
		STD	0500	0396	3492	2775	0004053	0272	14748								
		OBS	0500	0396	34922	2775			14748								
		STD	0600	0382	3492	2776	0004028	0312	14759								
		OBS	0600	0382	34917	2776			14759								
		STD	0700	0368	3491	2777	0004032	0352	14769								
		OBS	0700	0368	34907	2777			14769								
		STD	0800	0364	3491	2777	0004057	0393	14784								
		OBS	0800	0364	34909	2777			14784								
		STD	0900	0356	3491	2778	0004027	0433	14798								
		OBS	0900	0356	34912	2778			14798								
		STD	1000	0352	3492	2779	0004029	0474	14813								
		OBS	1000	0352	34917	2779			14813								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'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			OBS.				TYPE	AMT								
																DIR.	SPEED OF FORCE	BARO- METER (mb)					AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	
318039	EV	47041N	047041W	149	77	04	17	073	1968	001	10126	1097	1	08	2	2		X0	03		0087								
						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																		
						DT	SD	08	SU7	251	061	050	7	21															
MESSAGE 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	0024	3327	2672	0013351		0000	14480																			
073		OBS	0000	0024	33266	2672				14480																			
		STD	0010	-0039	3324	2672	0013293		0013	14452																			
		OBS	0010	-0039	33237	2672				14452																			
		STD	0020	-0089	3333	2682	0012409		0026	14432																			
002		OBS	0020	-0089	33327	2682				14432																			
		OBS	0025	-0092	33337	2682				14431																			
		STD	0030	-0094	3336	2684	0012168		0038	14432																			
		OBS	0030	-0094	33356	2684				14432																			
		OBS	0040	-0104	33457	2693				14430																			
		STD	0050	-0049	3354	2697	0010945		0061	14458																			
		OBS	0050	-0049	33537	2697				14458																			
		STD	0075	0051	3388	2719	0008827		0086	14513																			
		OBS	0075	0051	33877	2719				14513																			
		STD	0100	0166	3429	2745	0006458		0105	14574																			
		OBS	0100	0166	34287	2745				14574																			
		STD	0125	0266	3450	2754	0005670		0120	14625																			
		OBS	0125	0266	34497	2754				14625																			
		STD	0150	0336	3468	2762	0004965		0133	14662																			
		OBS	0150	0336	34677	2762				14662																			
		STD	0200	0426	3484	2765	0004716		0158	14710																			
		OBS	0200	0426	34837	2765				14710																			
		STD	0250	0446	3491	2768	0004456		0181	14728																			
		OBS	0250	0446	34907	2768				14728																			
		STD	0300	0440	3492	2770	0004370		0203	14734																			
		OBS	0300	0440	34917	2770				14734																			
		STD	0400	0427	3493	2772	0004257		0246	14745																			
		OBS	0400	0427	34927	2772				14745																			
		STD	0500	0410	3493	2774	0004168		0288	14754																			
		OBS	0500	0410	34927	2774				14754																			
		STD	0600	0391	3493	2776	0004059		0329	14763																			
		OBS	0600	0391	34926	2776				14763																			
		STD	0700	0375	3491	2776	0004071		0370	14773																			
		OBS	0700	0375	34912	2776				14773																			
		STD	0800	0364	3491	2777	0004040		0410	14784																			
		OBS	0800	0364	34912	2777				14784																			
		STD	0900	0358	3491	2778	0004049		0451	14799																			
		OBS	0900	0358	34912	2778				14799																			
		STD	1000	0354	3492	2779	0004052		0491	14814																			
		OBS	1000	0354	34917	2779				14814																			

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INCH	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	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV	47041N	047195W	149	77	04	17	08	7	1968	001	10127	0366	1	08	2	2		X1	0	3		0088
						WATER		WIND		AIR TEMP. °C												SPECIAL OBSERVATIONS	
						COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS								
						DT	SD	08	S05	237	039	033	7	18									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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	-0004	3299	2651	0015359	0000	14463								
087		OBS	0000	-0004	32986	2651			14463								
		OBS	0006	-0004	32986	2651			14464								
		STD	0010	-0043	3304	2656	0014803	0015	14447								
001		OBS	0010	-0043	33037	2656			14447								
		STD	0020	-0104	3306	2661	0014370	0029	14421								
		OBS	0020	-0104	33065	2661			14421								
		OBS	0025	-0129	33102	2665			14411								
		STD	0030	-0128	3311	2665	0013937	0043	14412								
		OBS	0030	-0128	33112	2665			14412								
		OBS	0037	-0133	33147	2668			14411								
		STD	0050	-0121	3328	2679	0012642	0070	14421								
		OBS	0050	-0121	33282	2679			14421								
		STD	0075	-0104	3338	2686	0011935	0101	14435								
		OBS	0075	-0104	33379	2686			14435								
		STD	0100	-0021	3364	2704	0010258	0128	14481								
		OBS	0100	-0021	33641	2704			14481								
		STD	0125	0048	3388	2720	0008761	0152	14520								
		OBS	0125	0048	33883	2720			14520								
		STD	0150	0133	3410	2732	0007686	0173	14565								
		OBS	0150	0133	34096	2732			14565								
		OBS	0170	0127	34147	2736			14567								
		STD	0200	0229	3440	2749	0006155	0207	14620								
		OBS	0200	0229	34397	2749			14620								
		OBS	0234	0264	34496	2754			14642								
		STD	0250	0307	3463	2760	0005143	0236	14665								
		OBS	0250	0307	34627	2760			14665								
		OBS	0258	0353	34691	2761			14687								
		STD	0300	0373	3473	2762	0005021	0261	14703								
		OBS	0300	0373	34735	2762			14703								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT DIRECTION	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318039	EV	47043N	047355W	149	77	04	17	098	1968	001	10128	0220	1	08	2	2		X1	0	3		0089
						WATER		WIND		AIR TEMP. °C												SPECIAL OBSERVATIONS
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS								
						DT	SD	08	S10	240	044	039	7	11								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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	-0051	3277	2635	0016844	0000	14438								
098		OBS	0000	-0051	32767	2635			14438								
		STD	0010	-0052	3277	2635	0016839	0016	14440								
		OBS	0010	-0052	32767	2635			14440								
		STD	0020	-0060	3277	2635	0016807	0033	14437								
001		OBS	0020	-0060	32766	2635			14437								
		OBS	0025	-0080	32765	2636			14429								
		STD	0030	-0103	3277	2637	0016653	0050	14419								
		OBS	0030	-0103	32767	2637			14419								
		STD	0050	-0108	3285	2643	0016015	0083	14421								
		OBS	0050	-0108	32847	2643			14421								
		STD	0075	-0125	3291	2649	0015481	0122	14418								
		OBS	0075	-0125	32907	2649			14418								
		STD	0100	-0108	3309	2663	0014141	0159	14433								
		OBS	0100	-0108	33087	2663			14433								
		STD	0125	-0014	3327	2674	0013095	0193	14483								
		OBS	0125	-0014	33272	2674			14483								
		STD	0150	0011	3351	2692	0011403	0224	14502								
		OBS	0150	0011	33509	2692			14502								
		OBS	0175	0091	33827	2713			14547								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIG. HEIGHT	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S				WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOCC STATION NUMBER	
CRST CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA	TYPE	AMT							
318039	EV		47048N	047595W		149	77	04	17	115	1968	001	10130	0155	1	06	2	4			XI	0	3		0091		
						WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPED OR FORCE			DRY BULB	WET BULB														
						DT	SD	08	S10	234		050	044	7	10												
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND MALT-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	S C						
		STD	0000	0027	3275	2630		0017288		0000		14474															
115		OBS	0000	0027	32752	2630						14474															
		STD	0010	0025	3275	2630		0017276		0017		14475															
		OBS	0010	0025	32752	2630						14475															
		STD	0020	0024	3275	2631		0017255		0034		14476															
001		OBS	0020	0024	32754	2631						14476															
		OBS	0025	-0014	32756	2633						14459															
		STD	0030	-0029	3276	2633		0017003		0051		14453															
		OBS	0030	-0029	32756	2633						14453															
		STD	0050	-0032	3276	2634		0016931		0085		14455															
		OBS	0050	-0032	32762	2634						14455															
		STD	0075	-0059	3280	2638		0016553		0127		14447															
		OBS	0075	-0059	32797	2638						14447															
		OBS	0080	-0084	32917	2648						14438															
		STD	0100	-0014	3319	2667		0013753		0165		14478															
		OBS	0100	-0014	33187	2667						14478															
		STD	0125	0012	3335	2679		0012608		0198		14496															
		OBS	0125	0012	33352	2679						14496															

127

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDIC	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CITY CODE	ID. NO.						10° 1° MO DAY HR.1/10					CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT									
							10°	1°	MO	DAY														HR.1/10							
318039		EV	44495N	049225W		149	49	04	21	075	1968	001	10132	0071	1	06	2	2		X0	03		0093								
WATER						WIND				AIR TEMP. °C				SPECIAL OBSERVATIONS																	
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS																					
DT		SD					DRY BULB	WET BULB																							
							207	033	017	7	08																				
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH			S C C											
		STD	0000	0187	3281	2625	0017777		0000	14547																					
075		OBS	0000	0187	32810	2625				14547																					
		STD	0010	0187	3282	2626	0017724		0017	14549																					
		OBS	0010	0187	32817	2626				14549																					
		STD	0020	0186	3281	2626	0017735		0035	14550																					
001		OBS	0020	0186	32815	2626				14550																					
		OBS	0024	0130	32807	2629				14525																					
		OBS	0025	0130	32809	2629				14526																					
		STD	0030	0129	3289	2635	0016818		0052	14527																					
		OBS	0030	0129	32887	2635				14527																					
		STD	0050	0124	3290	2636	0016718		0086	14528																					
		OBS	0050	0124	32896	2636				14528																					
		OBS	0055	0109	32882	2636				14522																					

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INSTR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'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						
318039		EV	4446 N	049055W		149	49	04	21	089	1968	001	10133	0415	1	05	3	2		X1	03		0094						
WATER						WIND				AIR TEMP. °C																			
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																
DT		SD					04		S16				200										028		028		7		21
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			S C C							
		STD	0000	0080	3272	2625		0017831		0000	14498																		
089		OBS	0000	0080	32716	2625					14498																		
		STD	0010	0079	3271	2625		0017839		0017	14499																		
		OBS	0010	0079	32715	2625					14499																		
001		OBS	0016	0106	32816	2631					14513																		
		STD	0020	0107	3279	2629		0017404		0035	14514																		
		OBS	0020	0107	32792	2629					14514																		
		OBS	0025	0060	32772	2630					14494																		
		STD	0030	0045	3286	2638		0016566		0052	14489																		
		OBS	0030	0045	32857	2638					14489																		
		STD	0050	0024	3295	2646		0015772		0084	14484																		
		OBS	0050	0024	32947	2646					14484																		
		STD	0075	0001	3299	2651		0015345		0123	14478																		
		OBS	0075	0001	32988	2651					14478																		
		STD	0100	-0023	3306	2658		0014654		0161	14472																		
		OBS	0100	-0023	33063	2658					14472																		
		STD	0125	-0027	3312	2663		0014174		0197	14475																		
		OBS	0125	-0027	33122	2663					14475																		
		STD	0150	-0039	3319	2668		0013627		0232	14474																		
		OBS	0150	-0039	33186	2668					14474																		
		OBS	0190	-0044	33357	2682					14481																		
		STD	0200	-0014	3353	2695		0011127		0293	14499																		
		OBS	0200	-0014	33527	2695					14499																		
		OBS	0215	0061	33787	2712					14539																		
		OBS	0227	0344	34097	2715					14670																		
		STD	0250	0221	3410	2726		0008342		0342	14621																		
		OBS	0250	0221	34101	2726					14621																		
		OBS	0254	0208	34102	2727					14616																		
		OBS	0274	0405P	3457P	2746P																							
		OBS	0286	0297	34302	2735					14662																		
		STD	0300	0382	3468	2757		0005504		0377	14706																		
		OBS	0300	0382	34683	2757					14706																		
		OBS	0360	0406	34857	2769					14728																		

REFERENCE CIRCUIT NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER							
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT								
318039	EV	4443 N	04849 W	149	48	04	21	100	1968	001	10134	2103	1	05	2	2		X1	0	3	0095							
					WATER		WIND		AIR TEMP. °C																			
					COLOR CODE	TRANS- MIT	DIR.	SPEED OR FORCE	BARO- METER (mbars)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS														
					DT	SD	04	S16	200	028	028	7	33															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	Σ C											
		STD	0000	0036	3272	2627	0017586	0000	14478																			
100		OBS	0000	0036	32719	2627			14478																			
		STD	0010	0001	3272	2629	0017429	0017	14463																			
		OBS	0010	0001	32718	2629			14463																			
		STD	0020	-0021	3272	2630	0017325	0034	14455																			
003		OBS	0020	-0021	32718	2630			14455																			
		OBS	0025	-0041	32717	2631			14446																			
		OBS	0029	-0022	32752	2633			14456																			
		STD	0030	-0037	3275	2633	0017039	0052	14450																			
		OBS	0030	-0037	32747	2633			14450																			
		STD	0050	-0104	3293	2650	0015410	0084	14424																			
		OBS	0050	-0104	32927	2650			14424																			
		STD	0075	-0089	3314	2666	0013835	0121	14438																			
		OBS	0075	-0089	33137	2666			14438																			
		STD	0100	-0034	3339	2684	0012131	0153	14471																			
		OBS	0100	-0034	33387	2684			14471																			
		STD	0125	0028	3352	2692	0011378	0182	14506																			
		OBS	0125	0028	33525	2692			14506																			
		STD	0150	0053	3363	2700	0010672	0210	14523																			
		OBS	0150	0053	33635	2700			14523																			
		OBS	0181	-0081	33765	2717			14468																			
		STD	0200	0471	3442	2727	0008347	0458	14723																			
		OBS	0200	0471	34417	2727			14723																			
		OBS	0205	0544	34602	2733			14757																			
		OBS	0241	0476	34684	2747			14736																			
		OBS	0248	0378	34587	2750			14695																			
		STD	0250	0426	3468	2752	0005963	0293	14716																			
		OBS	0250	0426	34677	2752			14716																			
		OBS	0253	0482	34757	2752			14741																			
		OBS	0285	0391	34757	2762			14708																			
		STD	0300	0416	3484	2767	0004667	0320	14723																			
		OBS	0300	0416	34842	2767			14723																			
		OBS	0322	0487	34947	2767			14757																			
		OBS	0330	0448	34857	2764			14741																			
		OBS	0360	0421	34845	2766			14735																			
		STD	0400	0434	3489	2768	0004604	0366	14747																			
		OBS	0400	0434	34891	2768			14747																			
		STD	0500	0428	3491	2771	0004485	0412	14762																			
		OBS	0500	0428	34912	2771			14762																			
		STD	0600	0416	3493	2773	0004337	0456	14773																			
		OBS	0600	0416	34927	2773			14773																			
		STD	0700	0405	3492	2774	0004318	0499	14785																			
		OBS	0700	0405	34925	2774			14785																			
		STD	0800	0391	3491	2774	0004368	0543	14796																			
		OBS	0800	0391	34909	2774			14796																			
		STD	0900	0378	3491	2776	0004280	0586	14807																			
		OBS	0900	0378	34912	2776			14807																			
		STD	1000	0374	3491	2777	0004313	0629	14822																			
		OBS	1000	0374	34914	2777			14822																			
		STD	1100	0369	3492	2777	0004324	0672	14837																			
		OBS	1100	0369	34916	2777			14837																			
		STD	1200	0367	3493	2778	0004297	0715	14853																			
		OBS	1200	0367	34927	2778			14853																			
		OBS	1280	0364	34926	2779			14865																			

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT									
318039	EV	4440 N	04831 W	149	48	04	21	116	1968	001	10135	2195	1	05	2	2		X1	0	3	0096							
					WATER		WIND		AIR TEMP. °C																			
					COLOR	TRANS.	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS														
					DT	SD	05	S16	169	023	022	7	38															
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C											
		STD	0000	0083	3271	2624	0017921	0000	14499																			
116		OBS	0000	0083	32707	2624			14499																			
		OBS	0001	-0050	32707	2630			14438																			
		STD	0010	-0050	3283	2640	0016387	0017	14441																			
003		OBS	0010	-0050	32827	2640			14441																			
		STD	0020	-0017	3289	2643	0016058	0033	14459																			
		OBS	0020	-0017	32887	2643			14459																			
		OBS	0025	0028	32967	2648			14482																			
		OBS	0027	0048	32987	2648			14491																			
		STD	0030	-0009	3305	2656	0014861	0048	14467																			
		OBS	0030	-0009	33047	2656			14467																			
		OBS	0033	-0075	33187	2670			14438																			
		OBS	0047	0087	33367	2676			14518																			
		STD	0050	-0016	3338	2683	0012305	0076	14471																			
		OBS	0050	-0016	33377	2683			14471																			
		STD	0075	0443	3403	2699	0010809	0104	14686																			
		OBS	0075	0443	34032	2699			14686																			
		OBS	0088	0516	34152	2701			14720																			
		STD	0100	0498	3413	2701	0010692	0131	14714																			
		OBS	0100	0498	34129	2701			14714																			
		STD	0125	0598	3436	2707	0010190	0157	14762																			
		OBS	0125	0598	34357	2707			14762																			
		STD	0150	0610	3448	2715	0009479	0182	14773																			
		OBS	0150	0955P	3408P	2633P																						
		OBS	0179	0755	34867	2726			14840																			
		OBS	0183	0786	34942	2727			14853																			
		STD	0200	0751	3490	2729	0008305	0226	14842																			
		OBS	0200	0751	34897	2729			14842																			
		OBS	0210	0709	34857	2731			14827																			
		OBS	0220	0745	34967	2735			14844																			
		STD	0250	0696	3491	2738	0007515	0266	14829																			
		OBS	0250	0696	34912	2738			14829																			
		OBS	0267	0666	34887	2740			14819																			
		STD	0300	0543	3478	2747	0006573	0301	14774																			
		OBS	0300	0543	34782	2747			14774																			
		OBS	0338	0483	34787	2755			14756																			
		STD	0400	0499	3492	2764	0005133	0360	14775																			
		OBS	0400	0499	34921	2764			14775																			
		OBS	0410	0517	34957	2764			14784																			
		OBS	0435	0442	34866	2766			14756																			
		STD	0500	0439	3491	2769	0004642	0409	14766																			
		OBS	0500	0439	34907	2769			14766																			
		STD	0600	0433	3491	2770	0004638	0455	14780																			
		OBS	0600	0433	34912	2770			14780																			
		STD	0700	0414	3491	2772	0004503	0501	14789																			
		OBS	0700	0414	34914	2772			14789																			
		STD	0800	0395	3491	2774	0004429	0545	14797																			
		OBS	0800	0395	34907	2774			14797																			
		STD	0900	0385	3491	2775	0004402	0590	14810																			
		OBS	0900	0385	34907	2775			14810																			
		STD	1000	0381	3492	2776	0004375	0633	14825																			
		OBS	1000	0381	34917	2776			14825																			
		STD	1100	0377	3492	2777	0004354	0677	14840																			
		OBS	1100	0377	34925	2777			14840																			
		STD	1200	0374	3492	2777	0004406	0721	14856																			
		OBS	1200	0374	34924	2777			14856																			
		STD	1300	0375	3494	2778	0004406	0765	14873																			
		OBS	1300	0375	34937	2778			14873																			
		STD	1400	0378	3495	2779	0004457	0809	14891																			
		OBS	1400	0378	34947	2779			14891																			
		STD	1500	0372	3494	2779	0004485	0854	14905																			
		OBS	1500	0372	34945	2779			14905																			

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

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C
136		STD	0000	0566	3346	2640	0016382	0000	14717								
		OBS	0000	0566	33457	2640			14717								
		STD	0010	0474	3332	2639	0016437	0016	14679								
003		OBS	0010	0474	33317	2639			14679								
		STD	0020	0421	3328	2642	0016190	0032	14658								
		OBS	0020	0421	33280	2642			14658								
		OBS	0025	0546	33567	2651			14714								
		STD	0030	0694	3395	2662	0014327	0048	14779								
		OBS	0030	0694	33947	2662			14779								
		OBS	0048	0064P	3451P	2770P											
		STD	0050	0286	3382	2698	0010927	0073	14612								
		OBS	0050	0286	33817	2698			14612								
		OBS	0069	0875	34737	2697			14866								
		STD	0075	0838	3469	2700	0010841	0100	14852								
		OBS	0075	0838	34695	2700			14852								
		STD	0100	0538	3423	2704	0010413	0127	14732								
		OBS	0100	0538	34227	2704			14732								
		STD	0125	0832	3476	2705	0010391	0153	14859								
		OBS	0125	0832	34757	2705			14859								
		OBS	0135	0775	34667	2707			14837								
		STD	0150	0868	3492	2712	0009790	0178	14879								
		OBS	0150	0868	34917	2712			14879								
		OBS	0180	0744	34767	2719			14834								
		OBS	0190	0802	34927	2723			14860								
		STD	0200	0774	3489	2725	0008649	0224	14851								
		OBS	0200	0774	34895	2725			14851								
		OBS	0219	0850	35087	2729			14885								
		STD	0250	0705	3490	2735	0007754	0265	14832								
		OBS	0250	0705	34897	2735			14832								
		STD	0300	0545	3480	2748	0006484	0300	14775								
	OBS	0300	0545	34797	2748			14775									
	OBS	0305	0566	34852	2750			14785									
	OBS	0333	0461	34712	2751			14745									
	OBS	0376	0536P	3495P	2761P												
	OBS	0391	0427	34722	2756			14741									
	STD	0400	0445	3484	2763	0005090	0358	14751									
	OBS	0400	0445	34842	2763			14751									
	OBS	0430	0409	34787	2763			14740									
	OBS	0455	0466	34912	2767			14770									
	OBS	0470	0430	34882	2768			14757									
	STD	0500	0488	3496	2768	0004852	0408	14787									
	OBS	0500	0488	34957	2768			14787									
	STD	0600	0462	3496	2771	0004653	0456	14793									
	OBS	0600	0462	34957	2771			14793									
	OBS	0670	0454	34972	2773			14801									
	STD	0700	0422	3493	2773	0004445	0501	14792									
	OBS	0700	0422	34935	2773			14792									
	STD	0800	0396	3491	2774	0004378	0545	14798									
	OBS	0800	0396	34915	2774			14798									
	STD	0900	0379	3491	2776	0004335	0589	14807									
	OBS	0900	0379	34907	2776			14807									
	STD	1000	0374	3491	2777	0004313	0632	14822									
	OBS	1000	0374	34914	2777			14822									
	STD	1100	0370	3492	2777	0004318	0675	14837									
	OBS	1100	0370	34918	2777			14837									
	OBS	1190	0369	34929	2778			14852									

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C
146		STD	0000	0116	3274	2624	0017876	0000	14514								
		OBS	0000	0116	32737	2624			14514								
		STD	0010	-0053	3276	2634	0016911	0017	14439								
		OBS	0010	-0053	32757	2634			14439								
003		STD	0020	0115	3295	2641	0016274	0034	14520								
		OBS	0020	0115	3428P	2748P											
		OBS	0025	0180	33095	2648			14552								
		STD	0030	0145	3344	2679	0012704	0048	14542								
		OBS	0030	0145	3406P	2728P											
		OBS	0032	0092P	3446P	2764P											
		STD	0050	0656	3436	2699	0010810	0072	14773								
		OBS	0050	0656	34357	2699			14773								
		STD	0075	0680	3443	2702	0010571	0098	14788								
		OBS	0075	0680	34435	2702			14788								
		STD	0100	0730	3453	2703	0010557	0125	14813								
		OBS	0100	0730	34532	2703			14813								
		OBS	0114	0739	34547	2703			14818								
		STD	0125	0663	3448	2708	0010118	0151	14790								
		OBS	0125	0663	34477	2708			14790								
		STD	0150	0807	3478	2711	0009915	0176	14854								
		OBS	0150	0807	34777	2711			14854								
		OBS	0163	0929	35032	2712			14905								
		STD	0200	0749	3479	2720	0009079	0223	14840								
		OBS	0200	0749	34789	2720			14840								
		OBS	0226	0497	34532	2733			14740								
		OBS	0248	0585	34693	2735			14781								
		STD	0250	0579	3469	2735	0007664	0265	14779								
		OBS	0250	0579	34687	2735			14779								
		OBS	0285	0447	34632	2747			14730								
		STD	0300	0488	3473	2749	0006336	0300	14751								
		OBS	0300	0488	34727	2749			14751								
		STD	0400	0521	3495	2764	0005145	0357	14784								
		OBS	0400	0521	34955	2764			14784								
		OBS	0420	0436	34855	2765			14751								
		STD	0500	0441	3491	2769	0004671	0406	14767								
		OBS	0500	0441	34907	2769			14767								
	STD	0600	0428	3491	2771	0004560	0453	14778									
	OBS	0600	0428	34915	2771			14778									
	STD	0700	0398	3492	2774	0004297	0497	14782									
	OBS	0700	0398	34917	2774			14782									
	STD	0800	0396	3493	2775	0004298	0540	14798									
	OBS	0800	0396	34927	2775			14798									
	STD	0900	0389	3493	2776	0004277	0583	14812									
	OBS	0900	0389	34930	2776			14812									
	STD	1000	0394	3494	2777	0004317	0626	14831									
	OBS	1000	0394	34945	2777			14831									
	STD	1100	0386	3495	2778	0004299	0669	14844									
	OBS	1100	0386	34947	2778			14844									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE DDMM	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THIP CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	IG. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	44315N	04743 W	149	47	04	21	164	1968	001	10138	3658	1	05	1	2		X0	0	3		0099	
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE											
												DT	SD										05

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 CC
		STD	0000	0465	3303	2618	0018474	0000	14669								
164		OBS	0000	0465	33032	2618			14669								
		STD	0010	-0015	3289	2644	0016017	0017	14458								
		OBS	0010	-0015	32894	2644			14458								
		STD	0020	-0089	3297	2653	0015158	0032	14427								
003		OBS	0020	-0089	32969	2653			14427								
		OBS	0025	-0094	33017	2657			14426								
		STD	0030	-0041	3307	2659	0014578	0047	14452								
		OBS	0030	-0041	33067	2659			14452								
		STD	0050	0601	3423	2697	0011048	0073	14749								
		OBS	0050	0601	34234	2697			14749								
		STD	0075	0681	3443	2701	0010652	0100	14788								
		OBS	0075	0681	34427	2701			14788								
		STD	0100	0340	3405	2711	0009706	0125	14647								
		OBS	0100	0340	34047	2711			14647								
		STD	0125	0458	3436	2724	0008561	0148	14705								
		OBS	0125	0458	34359	2724			14705								
		OBS	0133	0426	34347	2726			14693								
		STD	0150	0466	3449	2733	0007716	0169	14714								
		OBS	0150	0466	34487	2733			14714								
		OBS	0163	0396	34427	2736			14686								
		OBS	0190	0466	34607	2742			14722								
		STD	0200	0438	3459	2744	0006702	0205	14712								
		OBS	0200	0438	34589	2744			14712								
		OBS	0215	0414	34575	2746			14704								
		OBS	0225	0559	34857	2751			14769								
		STD	0250	0576	3491	2753	0005981	0236	14781								
		OBS	0250	0576	34907	2753			14781								
		STD	0300	0536	3482	2751	0006227	0267	14772								
		OBS	0300	0536	34817	2751			14772								
		STD	0400	0486	3485	2759	0005533	0326	14768								
		OBS	0400	0486	34847	2759			14768								
		STD	0500	0422	3489	2770	0004541	0376	14759								
		OBS	0500	0422	34895	2770			14759								
		STD	0600	0393	3488	2772	0004428	0421	14763								
		OBS	0600	0393	34879	2772			14763								
		STD	0700	0381	3488	2773	0004411	0465	14774								
		OBS	0700	0381	34876	2773			14774								
		STD	0800	0381	3489	2774	0004420	0509	14791								
		OBS	0800	0381	34887	2774			14791								
		STD	0900	0383	3490	2775	0004442	0554	14809								
		OBS	0900	0383	34899	2775			14809								
		STD	1000	0383	3491	2776	0004433	0598	14826								
		OBS	1000	0383	34912	2776			14826								
		OBS	1098	0378	34912	2776			14840								

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'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	44275N	04723 W	149	47	04	21	184	1968	001	10139	3840	1	04	1	2		X1	0	3		0100
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB											
						DT	SD	04	S10	156	089	089	7	29									

MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OWN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	$\frac{1}{2}$ C
184		STD	0000	0627	3314	2607	0019497	0000	14737								
		OBS	0000	0627	33137	2607			14737								
		STD	0010	0407	3322	2638	0016517	0018	14649								
		OBS	0010	0407	33217	2638			14649								
003		STD	0020	0431	3339	2650	0015476	0034	14663								
		OBS	0020	0431	33387	2650			14663								
		OBS	0025	0416	33369	2650			14657								
		STD	0030	0322	3335	2657	0014725	0049	14618								
		OBS	0030	0322	33353	2657			14618								
		OBS	0040	0251	33355	2664			14589								
		STD	0050	0286	3379	2696	0011099	0074	14612								
		OBS	0050	0286	33794	2696			14612								
		OBS	0055	0266	33796	2698			14604								
		STD	0075	0301	3404	2714	0009410	0100	14626								
		OBS	0075	0301	34037	2714			14626								
		STD	0100	0386	3424	2722	0008671	0123	14669								
		OBS	0100	0386	34242	2722			14669								
		OBS	0113	0464	34417	2728			14706								
		STD	0125	0376	3442	2737	0007247	0143	14671								
		OBS	0125	0376	34422	2737			14671								
		STD	0150	0486	3458	2738	0007272	0161	14723								
		OBS	0150	0486	34576	2738			14723								
		OBS	0162	0548	34719	2742			14753								
		OBS	0180	0456	34647	2747			14717								
		STD	0200	0656	3507	2755	0005752	0193	14807								
		OBS	0200	0656	35067	2755			14807								
		OBS	0230	0536	34900	2757			14761								
		STD	0250	0564	3494	2757	0005560	0222	14777								
		OBS	0250	0564	34944	2757			14777								
		STD	0300	0516	3492	2762	0005188	0248	14765								
		OBS	0300	0516	34924	2762			14765								
		OBS	0340	0466	34907	2766			14751								
		STD	0400	0424	3486	2767	0004711	0298	14743								
		OBS	0400	0424	34862	2767			14743								
		STD	0500	0406	3486	2769	0004584	0344	14752								
		OBS	0500	0406	34865	2769			14752								
		STD	0600	0395	3487	2771	0004538	0390	14764								
		OBS	0600	0395	34867	2771			14764								
		STD	0700	0384	3486	2772	0004523	0435	14776								
		OBS	0700	0384	34865	2772			14776								
		STD	0800	0375	3487	2773	0004497	0480	14788								
		OBS	0800	0375	34867	2773			14788								
		STD	0900	0374	3488	2774	0004511	0525	14805								
		OBS	0900	0374	34875	2774			14805								
		STD	1000	0373	3488	2774	0004515	0571	14821								
		OBS	1000	0373	34885	2774			14821								
		STD	1100	0373	3490	2775	0004512	0616	14838								
		OBS	1100	0373	34897	2775			14838								
		STD	1200	0386	3494	2777	0004449	0661	14861								
		OBS	1200	0386	34938	2777			14861								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	PORT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318039	EV		4421 N	04643 W		149	46	04	21	220	1968	001	10140	4023	1	06	4	2		X1	0	3	0101	
						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													
						07	SD	07	530	129	094		094	7					29					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{10}^s	$\Sigma \Delta$ 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 ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CHL a
220		STD	0000	1490	3597	2676	0012935	0000	15083								
		OBS	0000	1490	35974	2676			15083								
003		STD	0010	1490	3597	2676	0012956	0012	15084								
		OBS	0010	1490	35975	2676			15084								
		STD	0020	1487	3597	2677	0012951	0025	15085								
		OBS	0020	1487	35971	2677			15085								
		OBS	0025	1486	35967	2677			15085								
		STD	0030	1483	3596	2677	0012981	0038	15085								
		OBS	0030	1483	35960	2677			15085								
		STD	0050	1480	3595	2677	0013033	0064	15087								
		OBS	0050	1480	35952	2677			15087								
		STD	0075	1353	3562	2678	0012975	0097	15046								
		OBS	0075	1353	35617	2678			15046								
		STD	0100	1085	3501	2683	0012544	0129	14951								
		OBS	0100	1085	35007	2683			14951								
		OBS	0108	1067	35005	2686			14946								
		OBS	0112	1134	35177	2687			14972								
		STD	0125	0907	3475	2693	0011565	0159	14887								
		OBS	0143	0838	34662	2697			14863								
		STD	0150	0888	3478	2699	0011077	0187	14884								
		OBS	0150	0888	34784	2699			14884								
		STD	0200	0646	3453	2714	0009636	0239	14796								
		OBS	0200	0646	34527	2714			14796								
		OBS	0225	0616	34529	2718			14788								
		STD	0250	0660	3464	2721	0009069	0286	14811								
		OBS	0250	0660	34637	2721			14811								
		OBS	0262	0545	34563	2730			14766								
		STD	0300	0638	3477	2734	0007888	0328	14812								
		OBS	0300	0638	34767	2734			14812								
		OBS	0320	0685	34865	2735			14835								
		OBS	0355	0525	34717	2744			14775								
		STD	0400	0717	3507	2747	0006892	0402	14864								
		OBS	0400	0717	35069	2747			14864								
		OBS	0436	0488	34743	2751			14774								
		STD	0500	0538	3491	2758	0005779	0465	14807								
		OBS	0500	0538	34914	2758			14807								
		STD	0600	0501	3495	2765	0005182	0520	14809								
		OBS	0600	0501	34949	2765			14809								
		OBS	0665	0535	35052	2770			14835								
		STD	0700	0513	3503	2771	0004828	0570	14831								
		OBS	0700	0513	3403P	2691P											
		STD	0800	0476	3500	2772	0004753	0618	14832								
		OBS	0800	0476	3400P	2693P											
		STD	0900	0446	3498	2774	0004604	0665	14836								
		OBS	0900	0446	34980	2774			14836								
		STD	1000	0439	3499	2776	0004567	0711	14850								
		OBS	1000	0439	34987	2776			14850								
		STD	1100	0407	3496	2777	0004487	0756	14853								
		OBS	1100	0407	34957	2777			14853								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE *	LONGITUDE *	PORT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
318039	EV		43185N	05027 W		150	30	04	24	029	1968	001	10141	0073	1	02	4	3		X2	0	3	0102
						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											
						DT	SD	36	S24		244	022					000	7	09				

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{10}^s	$\Sigma \Delta$ 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 ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CHL a
029		STD	0000	0296	3296	2628	0017469	0000	14597								
		OBS	0000	0296	32959	2628			14597								
001		STD	0010	0296	3296	2628	0017473	0017	14598								
		OBS	0010	0296	32959	2628			14598								
		STD	0020	0296	3296	2628	0017478	0034	14600								
		OBS	0020	0296	32959	2628			14600								
		OBS	0025	0296	32959	2628			14601								
		STD	0030	0296	3296	2628	0017482	0052	14602								
		OBS	0030	0296	32959	2628			14602								
		OBS	0044	0294	32961	2629			14603								
		STD	0050	0249	3298	2634	0016979	0086	14585								
		OBS	0050	0249	32976	2634			14585								
		OBS	0055	0218	33027	2640			14573								
		OBS	0060	0218	33057	2643			14574								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME IN HOURS	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	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV		4301 N	050275W		150	30	04	24	043	1968	001	10142	0078	1	03	4	4		X2	0 3	0103
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB													
		OT	SD	36	S24	244	022	000	7	08												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 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	Si O ₄ -Si μg - at/l	pH	S C					
		STO	0000	0196	3289	2631	0017242	0000	14552													
043		OBS	0000	0196	32888	2631			14552													
		STO	0010	0196	3289	2631	0017235	0017	14554													
		OBS	0010	0196	32889	2631			14554													
		STO	0020	0196	3290	2631	0017192	0034	14555													
001		OBS	0020	0196	32896	2631			14555													
		OBS	0025	0196	32895	2631			14556													
		STO	0030	0196	3290	2631	0017194	0051	14557													
		OBS	0030	0196	32896	2631			14557													
		OBS	0041	0196	32896	2631			14559													
		STO	0050	0111	3301	2646	0015757	0084	14524													
		OBS	0050	0111	33012	2646			14524													
		OBS	0065	0104	33031	2648			14524													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME IN HOURS	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	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV		4243 N	05029 W		150	20	04	24	060	1968	001	10143	0603	1	02	2	6		X2	0 3	0104
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB													
		OT	SD	36	S20	244	033	011	7	26												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 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	Si O ₄ -Si μg - at/l	pH	S C					
		STO	0000	0174	3281	2626	0017713	0000	14541													
060		OBS	0000	0174	32807	2626			14541													
		STO	0010	0174	3281	2626	0017715	0017	14543													
		OBS	0010	0174	32807	2626			14543													
		STO	0020	0174	3281	2626	0017716	0035	14544													
002		OBS	0020	0174	32807	2626			14544													
		OBS	0025	0174	32807	2626			14545													
		STO	0030	0173	3281	2626	0017708	0053	14546													
		OBS	0030	0173	32807	2626			14546													
		OBS	0038	0172	32807	2626			14546													
		STO	0050	0121	3280	2629	0017423	0088	14526													
		OBS	0050	0121	32801	2629			14526													
		STO	0075	0004	3304	2654	0014985	0128	14480													
		OBS	0075	0004	33037	2654			14480													
		STO	0100	-0019	3319	2667	0013725	0164	14475													
		OBS	0100	-0019	33187	2667			14475													
		OBS	0123	-0018	33307	2677			14481													
		STO	0125	-0014	3335	2680	0012518	0197	14484													
		OBS	0125	-0014	33347	2680			14484													
		OBS	0135	0016	33417	2684			14501													
		OBS	0144	0186	33627	2691			14581													
		STO	0150	0186	3379	2704	0010375	0226	14585													
		OBS	0150	0186	33790	2704			14585													
		OBS	0154	0179	33977	2719			14585													
		OBS	0168	0447	34300	2720			14706													
		OBS	0177	0425	34290	2722			14699													
		OBS	0184	0212	34237	2737			14608													
		OBS	0196	0210	34247	2738			14609													
		STO	0200	0254	3438	2745	0006510	0268	14631													
		OBS	0200	0254	34377	2745			14631													
		OBS	0215	0276	34429	2747			14643													
		STO	0250	0284	3446	2749	0006189	0300	14653													
		OBS	0250	0284	34459	2749			14653													
		STO	0300	0316	3455	2754	0005814	0330	14676													
		OBS	0300	0316	34554	2754			14676													
		STO	0400	0392	3478	2764	0004949	0383	14728													
		OBS	0400	0392	34783	2764			14728													
		STO	0500	0405	3486	2769	0004600	0431	14751													
		OBS	0500	0405	34861	2769			14751													
		OBS	0540	0405	34891	2772			14758													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		STATION NUMBER	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		4232 N	05030 W		150	20	04	24	073	1968	001	10144	1810	1	02	3	3		X2	0	3		0105
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
						DT	SO	36	521	244	022	000	7	32										
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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - nt/l	SiO ₄ -Si μg - at/l	pH	DOC							
		STD	0000	0407	3313	2631	0017206	0000	14646															
	073	OBS	0000	0407	33125	2631			14646															
		STD	0010	0409	3313	2631	0017214	0017	14649															
		OBS	0010	0409	33127	2631			14649															
		STD	0020	0406	3312	2631	0017212	0034	14649															
	003	OBS	0020	0406	33124	2631			14649															
		OBS	0025	0326	33032	2632			14615															
		STD	0030	0206	3299	2639	0016507	0051	14563															
		OBS	0030	0206	32995	2639			14563															
		STD	0050	0126	3343	2679	0012632	0080	14537															
		OBS	0050	0126	33435	2679			14537															
		OBS	0056	0096	33457	2683			14524															
		OBS	0066	0316	33887	2701			14629															
		STD	0075	0326	3396	2705	0010209	0109	14635															
		OBS	0075	0326	33960	2705			14635															
		OBS	0090	0314	34047	2713			14634															
		STD	0100	0325	3416	2721	0008719	0132	14642															
		OBS	0100	0325	34159	2721			14642															
		OBS	0119	0310	34192	2725			14639															
		OBS	0120	0284	34197	2728			14628															
		STD	0125	0426	3444	2733	0007641	0153	14692															
		OBS	0125	0426	34437	2733			14692															
		OBS	0145	0506	34617	2739			14731															
		STD	0150	0558	3480	2747	0006415	0170	14756															
		OBS	0150	0558	34802	2747			14756															
		OBS	0160	0564	34817	2747			14760															
		OBS	0170	0540	34788	2748			14752															
		STD	0200	0545	3484	2751	0006051	0201	14759															
		OBS	0200	0545	34838	2751			14759															
		STD	0250	0490	3484	2758	0005462	0230	14745															
		OBS	0250	0490	34839	2758			14745															
		OBS	0264	0470	34833	2760			14739															
		STD	0300	0489	3493	2765	0004855	0256	14754															
		OBS	0300	0489	34927	2765			14754															
		STD	0400	0483	3496	2769	0004634	0303	14769															
		OBS	0400	0483	34962	2769			14769															
		STD	0500	0446	3495	2772	0004409	0349	14770															
		OBS	0500	0446	34950	2772			14770															
		OBS	0550	0436	34935	2772			14773															
		STD	0600	0406	3491	2773	0004331	0392	14769															
		OBS	0600	0406	34912	2773			14769															
		STD	0700	0394	3492	2775	0004237	0435	14781															
		OBS	0700	0394	34919	2775			14781															
		STD	0800	0386	3493	2777	0004145	0477	14794															
		OBS	0800	0386	34931	2777			14794															
		STD	0900	0374	3492	2777	0004182	0519	14805															
		OBS	0900	0374	34920	2777			14805															
		STD	1000	0374	3493	2778	0004216	0561	14822															
		OBS	1000	0374	34927	2778			14822															
		STD	1100	0373	3492	2778	0004299	0603	14838															
		OBS	1100	0373	34925	2778			14838															
		STD	1200	0370	3493	2778	0004323	0646	14854															
		OBS	1200	0370	34929	2778			14854															

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	ORIG. INSTR.	MARSOEN 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, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4213 N	050315W		150	20	04	24	097	1968	001	10145	2926	1	01	5	2		X2	0	3	0106
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m1)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
		DT	SD	01	S18	257	022	017	7	29													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC					
097	OBS	STD	0000	0394	3315	2634	0016907		0000	14641													
		OBS	0000	0394	33148	2634				14641													
003	OBS	STD	0010	0394	3315	2634	0016915		0016	14643													
		OBS	0010	0394	33148	2634				14643													
		STD	0020	0289	3331	2657	0014754		0032	14602													
		OBS	0020	0289	33312	2657				14602													
		OBS	0025	0226	33407	2670				14576													
		STD	0030	0157	3361	2691	0011530		0045	14549													
		OBS	0030	0157	33607	2691				14549													
		OBS	0036	0157	33638	2694				14551													
		STD	0050	0327	3410	2716	0009172		0066	14634													
		OBS	0050	0327	34097	2716				14634													
		OBS	0065	0387	34227	2721				14663													
		STD	0075	0386	3426	2724	0008478		0088	14665													
		OBS	0075	0386	34265	2724				14665													
		STD	0100	0394	3436	2731	0007852		0109	14674													
		OBS	0100	0394	34362	2731				14674													
		OBS	0110	0396	34397	2733				14677													
		STD	0125	0426	3454	2741	0006884		0127	14694													
		OBS	0125	0426	34537	2741				14694													
		OBS	0135	0456	34625	2745				14709													
		STD	0150	0457	3464	2746	0006460		0144	14712													
		OBS	0150	0457	34642	2746				14712													
		OBS	0173	0490	34782	2754				14732													
		STD	0200	0487	3481	2756	0005610		0174	14735													
		OBS	0200	0487	34807	2756				14735													
		STD	0250	0488	3487	2761	0005182		0201	14745													
		OBS	0250	0488	34874	2761				14745													
		OBS	0280	0486	34907	2764				14749													
		STD	0300	0453	3487	2764	0004892		0226	14738													
		OBS	0300	0453	34867	2764				14738													
		OBS	0320	0414	34820	2765				14725													
		STD	0400	0417	3488	2770	0004489		0273	14740													
		OBS	0400	0417	34881	2770				14740													
		STD	0500	0425	3491	2771	0004428		0318	14760													
		OBS	0500	0425	34915	2771				14760													
		STD	0600	0414	3492	2773	0004370		0362	14772													
		OBS	0600	0414	34919	2773				14772													
		STD	0700	0398	3492	2774	0004297		0405	14782													
		OBS	0700	0398	34917	2774				14782													
		STD	0800	0386	3491	2775	0004269		0448	14794													
		OBS	0800	0386	34915	2775				14794													
		STD	0900	0376	3492	2777	0004204		0490	14806													
		OBS	0900	0376	34920	2777				14806													
		STD	1000	0373	3493	2778	0004205		0532	14822													
		OBS	1000	0373	34927	2778				14822													
		STD	1100	0367	3493	2779	0004160		0574	14836													
		OBS	1100	0367	34934	2779				14836													
		STD	1200	0367	3495	2780	0004156		0616	14853													
		OBS	1200	0367	34947	2780				14853													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN INDEX	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	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					
318	039	EV	4155 N	05033 W		150	10	04	24	118	1968	001	10146	3601	1	01	4	3		X2	0	3		0107			

318039	EV	4155 N	05033 W	150	10	04	24	118	1968	001	10146	3601	1	01	4	3	X2	0	3	0107
					WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB								
						DT	SD	01	S20	264	022	017								

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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC
		STD	0000	0359	3408	2632	0017088	0000	14625								
118		OBS	0000	0359	33081	2632			14625								
		STD	0010	0359	3308	2632	0017095	0017	14627								
		OBS	0010	0359	33081	2632			14627								
003		STD	0020	0359	3308	2633	0017083	0034	14629								
		OBS	0020	0359	33083	2633			14629								
		OBS	0022	0359	33083	2633			14629								
		OBS	0025	0291	33105	2640			14601								
		STD	0030	0276	3329	2656	0014839	0050	14597								
		OBS	0030	0276	33287	2656			14597								
		OBS	0042	0136	33395	2676			14539								
		STD	0050	0198	3355	2683	0012271	0077	14570								
		OBS	0050	0198	33547	2683			14570								
		OBS	0062	0338	33760	2688			14636								
		STD	0075	0261	3386	2703	0010431	0105	14606								
		OBS	0075	0261	33857	2703			14606								
		STD	0100	0396	3415	2713	0009485	0130	14672								
		OBS	0100	0396	34147	2713			14672								
		OBS	0114	0284	34137	2723			14626								
		STD	0125	0298	3425	2731	0007808	0152	14636								
		OBS	0125	0298	34250	2731			14636								
		STD	0150	0326	3441	2741	0006898	0170	14654								
		OBS	0150	0326	34407	2741			14654								
		STD	0200	0396	3455	2745	0006573	0204	14694								
		OBS	0200	0396	34547	2745			14694								
		STD	0250	0457	3477	2757	0005568	0234	14730								
		OBS	0250	0457	34775	2757			14730								
		STD	0300	0541	3498	2763	0005098	0261	14776								
		OBS	0300	0541	34977	2763			14776								
		STD	0400	0496	3497	2768	0004718	0310	14774								
		OBS	0400	0496	34972	2768			14774								
		STD	0500	0460	3496	2771	0004497	0356	14775								
		OBS	0500	0460	34960	2771			14775								
		STD	0600	0446	3500	2776	0004166	0399	14787								
		OBS	0600	0446	34997	2776			14787								
		STD	0700	0436	3499	2776	0004219	0441	14799								
		OBS	0700	0436	34987	2776			14799								
		STD	0800	0438	3502	2778	0004130	0483	14817								
		OBS	0800	0438	35017	2778			14817								
		STD	0900	0418	3500	2779	0004136	0524	14825								
		OBS	0900	0418	34996	2779			14825								
		STD	1000	0405	3499	2779	0004122	0566	14836								
		OBS	1000	0405	34990	2779			14836								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		4502 N	04841 W		149	58	05	11	237	1968	002	10148	0896	1	23	1	2		X2	0	3	0109	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
		DT	SD	31	510			105	022	022	8	26												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	0155	3278	2625		0017795		0000		14532												
237		OBS	0000	0155	32780	2625						14532												
		STD	0010	0082	3279	2630		0017277		0017		14501												
		OBS	0010	0082	32790	2630						14501												
		STD	0020	-0017	3286	2641		0016257		0034		14459												
001		OBS	0020	-0017	32861	2641						14459												
		OBS	0025	-0092	32912	2648						14425												
		STD	0030	-0096	3301	2656		0014817		0049		14426												
		OBS	0030	-0096	33010	2656						14426												
		OBS	0040	-0086	33112	2664						14433												
		OBS	0045	-0095	33130	2666						14430												
		STD	0050	-0064	3331	2679		0012641		0077		14448												
		OBS	0050	-0064	33307	2679						14448												
		OBS	0052	-0053	33315	2679						14454												
		OBS	0067	-0053	33360	2683						14457												
		STD	0075	-0018	3362	2702		0010437		0106		14478												
		OBS	0075	-0018	33620	2702						14478												
		OBS	0082	0030	33661	2703						14502												
		STD	0100	0048	3377	2711		0009583		0131		14514												
		OBS	0100	0048	33775	2711						14514												
		STD	0125	0085	3391	2720		0008773		0154		14537												
		OBS	0125	0085	33910	2720						14537												
		OBS	0129	0098	33928	2721						14544												
		STD	0150	0103	3395	2722		0008566		0175		14550												
		OBS	0150	0103	33953	2722						14550												
		OBS	0178	0120	34140	2736						14565												
		STD	0200	0174	3424	2740		0006918		0214		14594												
		OBS	0200	0174	34238	2740						14594												
		STD	0250	0273	3447	2751		0006028		0246		14648												
		STD	0300	0350	3465	2758		0005435		0275		14692												
		OBS	0300	0350	34648	2758						14692												
		OBS	0390	0436	34850	2765						14746												
		STD	0400	0438	3485	2765		0004913		0327		14748												
		OBS	0400	0438	34855	2765						14748												
		OBS	0420	0448	34875	2766						14756												
		STD	0500	0432	3490	2769		0004615		0374		14763												
		OBS	0500	0432	34900	2769						14763												
		STD	0600	0403	3490	2773		0004371		0419		14768												
		OBS	0600	0403	34902	2773						14768												
		STD	0700	0392	3490	2774		0004341		0463		14779												
		OBS	0700	0392	34902	2774						14779												
		OBS	0775	0384	34900	2774						14789												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	M/RSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLE'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		
318039	EV		4502 N	04841 W		149	58	05	12	008	1968	002	10149		0921	1	23	1	2		X2	0	3	0110	
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mbars)		DRY BULB		WET BULB											
						DT	SD	31	S10	105		022		022		3		25							
MESSENGER TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C								
		STD	0000	0084	3282	2633	0017025	0000	14501																
008		OBS	0000	0084	32825	2633			14501																
		STD	0010	0062	3294	2643	0016055	0016	14494																
		STD	0020	0041	3304	2653	0015120	0032	14488																
		OBS	0025	0030	33098	2658			14484																
001		OBS	0029	-0077	33140	2666			14436																
		STD	0030	-0080	3316	2668	0013715	0046	14435																
		OBS	0033	-0086	33215	2672			14434																
		STD	0050	-0081	3334	2683	0012286	0072	14441																
		OBS	0050	-0081	33345	2683			14441																
		OBS	0070	-0046	33630	2704			14464																
		STD	0075	-0048	3374	2713	0009374	0099	14466																
		OBS	0075	-0048	33741	2713			14466																
		OBS	0080	-0049	33790	2717			14467																
		STD	0100	0035	3384	2717	0009038	0122	14509																
		OBS	0100	0035	33838	2717			14509																
		STD	0125	0066	3395	2725	0008325	0144	14529																
		STD	0150	0100	3408	2733	0007565	0164	14550																
		OBS	0150	0100	34083	2733			14550																
		STD	0200	0180	3438	2751	0005886	0197	14598																
		OBS	0200	0180	34381	2751			14598																
		OBS	0233	0249	34510	2756			14636																
		OBS	0249	0251	34553	2759			14640																
		STD	0250	0253	3456	2760	0005162	0225	14641																
		STD	0300	0348	3479	2769	0004347	0249	14693																
		OBS	0300	0348	34791	2769			14693																
		OBS	0357	0433	34859	2766			14739																
		OBS	0379	0430	34890	2769			14742																
		STD	0400	0447	3489	2767	0004724	0294	14753																
		OBS	0400	0447	34894	2767			14753																
		OBS	0448	0432	34903	2770			14755																
		STD	0500	0432	3492	2771	0004472	0340	14763																
		OBS	0517	0432	34922	2771			14766																
		OBS	0588	0414	34918	2773			14770																
		STD	0600	0405	3492	2774	0004267	0384	14769																
		OBS	0600	0405	34919	2774			14769																
		OBS	0678	0403	34920	2774			14781																
		STD	0700	0395	3492	2775	0004220	0426	14781																
		OBS	0710	0392	34922	2775			14781																
		OBS	0762	0388	34915	2775			14788																
		STD	0800	0384	3492	2776	0004230	0469	14793																
		OBS	0800	0384	34917	2776			14793																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
318039	EV		4452 N	04837 W		149	48	05	12	026	1968		002	10150	0988	1	23	1	2		X2	0	3		0111				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																	
						DT	SD	31	510	115	022	022	4	30															
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P 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												
		STO	0000	0075	3282	2633	0017016	0000	14497																				
026		OBS	0000	0075	32820	2633			14497																				
		STO	0010	0072	3284	2635	0016825	0016	14498																				
		OBS	0011	0068	32845	2636			14496																				
		STO	0020	-0013	3281	2637	0016674	0033	14460																				
001		OBS	0021	-0017	32804	2637			14458																				
		OBS	0025	-0020	32842	2640			14458																				
		STO	0030	-0062	3285	2642	0016195	0050	14439																				
		OBS	0032	-0072	32870	2644			14435																				
		OBS	0041	-0072	33145	2666			14441																				
		OBS	0042	-0079	33130	2665			14437																				
		OBS	0045	-0079	33180	2669			14439																				
		STO	0050	-0053	3336	2683	0012281	0078	14454																				
		OBS	0050	-0053	33360	2683			14454																				
		OBS	0051	-0044	33340	2681			14458																				
		OBS	0072	-0041	33334	2680			14463																				
		STO	0075	-0024	3336	2682	0012395	0109	14471																				
		OBS	0075	-0024	33360	2682			14471																				
		OBS	0093	0044	33700	2706			14510																				
		STO	0100	0045	3374	2708	0009861	0137	14512																				
		OBS	0100	0045	33736	2708			14512																				
		OBS	0107	0050	33885	2720			14518																				
		STO	0125	0086	3393	2721	0008666	0160	14538																				
		OBS	0140	0100	33950	2722			14547																				
		STO	0150	0101	3396	2723	0008493	0181	14549																				
		OBS	0150	0101	33961	2723			14549																				
		OBS	0153	0102	33998	2726			14551																				
		STO	0200	0215	3431	2743	0006697	0219	14613																				
		OBS	0200	0215	34310	2743			14613																				
		OBS	0249	0302	34589	2758			14662																				
		STO	0250	0304	3459	2758	0005374	0450	14664																				
		STO	0300	0398	3475	2761	0005148	0276	14714																				
		OBS	0300	0398	34753	2761			14714																				
		OBS	0340	0444	34887	2767			14741																				
		OBS	0380	0450	34869	2765			14750																				
		STO	0400	0441	3488	2767	0004772	0325	14750																				
		OBS	0400	0441	34879	2767			14750																				
		STO	0500	0439	3489	2768	0004758	0373	14766																				
		STO	0600	0422	3490	2771	0004578	0420	14775																				
		OBS	0600	0422	34904	2771			14775																				
		OBS	0612	0419	34909	2772			14776																				
		OBS	0618	0412	34900	2772			14774																				
		STO	0700	0402	3491	2773	0004411	0465	14784																				
		OBS	0700	0402	34908	2773			14784																				
		OBS	0760	0390	34891	2773			14788																				
		OBS	0795	0389	34895	2774			14794																				

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN		STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD		NODC				
					SQUARE		IGMT					CRUISE	STATION			DPTD	OBS.	SPL'S	OBSERVATIONS					CODE	CODES		
					10'	1'	MO	DAY	HR.	1/10									DIR.		HGT	PER			SEA	TYPE	AMT
318039	EV	4502 N	04841 W		149	58	05	12	037	1968	002	10151		0914	1	23	0	4		X2	0	3		0112			
					WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL										
					COLOR		TRANS.		DIR.		SPEED		METER		DRY		WET		BULB		CODE		OBS.		DEPTHS		
					OT		SO		32		S06		119		028		028		3		31						
MESSENGR		CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME		Σ Δ D		SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	S							
TIME	NO.							ANOMALY-310?	DYN. M.	VELOCITY	μg - at/l										μg - at/l	μg - at/l	μg - at/l	μg - at/l			
HR 1/10											X 10 ³																
			STO	0000	0132	3283	2631		0017270	0000		14523															
037			OBS	0000	0132	32830	2631					14523															
			STO	0010	0114	3285	2633		0017034	0017		14517															
			OBS	0018	0078	32848	2635					14502															
			STO	0020	0063	3284	2636		0016777	0034		14495															
			OBS	0025	0030	32840	2637					14481															
			STO	0030	0004	3285	2640		0016391	0050		14470															
			OBS	0040	-0038	32940	2648					14453															
			STO	0050	-0065	3310	2662		0014232	0081		14445															
			OBS	0050	-0065	33099	2662					14445															
			OBS	0060	-0070	33140	2666					14445															
			OBS	0070	-0060	33310	2679					14453															
			STO	0075	-0040	3338	2684		0012166	0114		14464															
			OBS	0075	-0040	33380	2684					14464															
			OBS	0090	-0038	33382	2684					14468															
			STO	0100	0000	3359	2699		0010742	0142		14490															
			OBS	0100	0000	33590	2699					14490															
			STO	0125	0080	3383	2714		0009385	0168		14534															
			OBS	0130	0090	33855	2715					14539															
			STO	0150	0110	3391	2719		0008938	0191		14552															
			OBS	0150	0110	33910	2719					14552															
			OBS	0160	0110	33923	2720					14554															
			OBS	0190	0175	34237	2740					14592															
			STO	0200	0197	3427	2741		0006849	0230		14604															
			OBS	0200	0197	34270	2741					14604															
			OBS	0247	0325	34585	2755					14672															
			STO	0250	0326	3459	2755		0005604	0261		14673															
			OBS	0270	0340	34630	2757					14683															
			STO	0300	0390	3474	2761		0005160	0288		14710															
			OBS	0300	0390	34740	2761					14710															
			OBS	0335	0410	34798	2764					14725															
			OBS	0350	0440	34870	2766					14741															
			STO	0400	0445	3488	2767		0004776	0338		14752															
			OBS	0400	0445	34885	2767					14752															
			OBS	0420	0440	34890	2768					14753															
			OBS	0460	0438	34890	2768					14759															
			STO	0500	0430	3491	2770		0004523	0384		14762															
			OBS	0500	0430	34910	2770					14762															
			OBS	0590	0425	34909	2771					14775															
			STO	0600	0420	3491	2771		0004530	0429		14775															
			OBS	0600	0420	34907	2771					14775															
			OBS	0620	0415	34905	2772					14776															
			OBS	0650	0410	34903	2772					14779															
			STO	0700	0408	3490	2772		0004528	0475		14786															
			OBS	0700	0408	34902	2772					14786															
			OBS	0750	0398	34901	2773					14790															
			STO	0800	0398	3490	2773		0004497	0520		14799															
			OBS	0800	0398	34903	2773					14799															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUA RE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTN TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	4502 N	04841 W	149	58	05	12	046	1968	002	10152	0930	1	23	0	4			X2	0	3	0113
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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			

DT	SD	30	509	122	028	028	3	26	
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MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₂ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S CC
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		STD	0000	0149	3284	2630	0017288	0000	14530								
046		OBS	0000	0149	32841	2630			14530								
		OBS	0005	0149	32800	2627			14531								
		STD	0010	0121	3278	2627	0017613	0017	14519								
		STD	0020	0062	3273	2627	0017637	0035	14493								
001		OBS	0025	0030	32705	2626			14479								
		STD	0030	-0010	3284	2639	0016435	0052	14463								
		OBS	0035	-0038	32945	2649			14453								
		STD	0050	-0053	3307	2659	0014496	0083	14450								
		OBS	0050	-0053	33070	2659			14450								
		OBS	0055	-0068	33060	2659			14444								
		OBS	0063	-0038	33310	2678			14462								
		STD	0075	-0034	3333	2680	0012564	0116	14466								
		OBS	0075	-0034	33332	2680			14466								
		OBS	0085	-0031	33395	2685			14470								
		STD	0100	0029	3365	2702	0010434	0145	14504								
		OBS	0100	0029	33650	2702			14504								
		OBS	0101	0041	33645	2701			14509								
		OBS	0119	0060	33810	2714			14523								
		OBS	0122	0115	33900	2717			14550								
		STD	0125	0117	3391	2718	0009001	0169	14551								
		STD	0150	0119	3395	2721	0008690	0192	14557								
		OBS	0150	0119	33950	2721			14557								
		OBS	0161	0113	33958	2722			14556								
		OBS	0173	0137	34130	2734			14571								
		STD	0200	0198	3429	2742	0006733	0230	14605								
		OBS	0200	0198	34287	2742			14605								
		OBS	0248	0295	34513	2752			14658								
		STD	0250	0299	3452	2753	0005847	0262	14660								
		STD	0300	0377	3472	2761	0005168	0289	14704								
		OBS	0300	0377	34720	2761			14704								
		STD	0400	0438	3487	2766	0004832	0339	14749								
		OBS	0400	0438	34867	2766			14749								
		OBS	0430	0447	34880	2766			14757								
		STD	0500	0440	3490	2768	0004723	0387	14766								
		OBS	0500	0440	34898	2768			14766								
		STD	0600	0426	3491	2771	0004557	0433	14777								
		OBS	0600	0426	34912	2771			14777								
		OBS	0660	0411	34908	2772			14781								
		STD	0700	0405	3491	2773	0004452	0478	14785								
		OBS	0733	0402	34908	2773			14789								
		STD	0800	0399	3491	2774	0004455	0523	14799								
		OBS	0800	0399	34910	2774			14799								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT FOOT	MARS SQUARE	STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318039	EV		4502 N	04842 W		149	58	05	12	057	1968	002	10153	0938	1	30	0	4		X2	0	3	0114	
						WATER		WIND				AIR TEMP. °C												
						COLOR CODE	TRANS. IMI	DIR.	SPEED OF FORCE		BARO- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						OT	SD	30	509		122		028	028	3	27								

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 $\mu g - \sigma t/l$	TOTAL-P $\mu g - \sigma t/l$	NO ₂ -N $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	Si O ₄ -Si $\mu g - \sigma t/l$	pH	S C
		STD	0000	0150	3286	2632	0017161	0000	14531								
057		OBS	0000	0150	32859	2632			14531								
		STD	0010	0128	3285	2632	0017116	0017	14523								
		OBS	0010	0128	32847	2632			14523								
		STD	0020	0097	3279	2629	0017377	0034	14510								
001		OBS	0025	0075	32785	2630			14500								
		STD	0030	0035	3281	2635	0016873	0051	14484								
		OBS	0040	-0019	32880	2643			14461								
		STD	0050	-0040	3297	2651	0015311	0083	14455								
		OBS	0050	-0040	32970	2651			14455								
		OBS	0067	-0063	33238	2673			14450								
		STD	0075	-0038	3328	2676	0012943	0119	14464								
		OBS	0075	-0038	33280	2676			14464								
		OBS	0095	-0027	33382	2684			14474								
		STD	0100	-0010	3358	2699	0010730	0148	14485								
		OBS	0100	-0010	33585	2699			14485								
		STD	0125	0043	3375	2710	0009724	0174	14516								
		OBS	0130	0057	33788	2712			14524								
		OBS	0147	0110	33910	2719			14552								
		STD	0150	0120	3392	2719	0008916	0197	14557								
		OBS	0150	0120	33922	2719			14557								
		OBS	0188	0120	34105	2733			14566								
		STD	0200	0183	3420	2736	0007292	0238	14597								
		OBS	0200	0183	34198	2736			14597								
		OBS	0240	0218	34392	2749			14622								
		STD	0250	0242	3445	2752	0005855	0270	14634								
		OBS	0277	0298	34582	2758			14665								
		STD	0300	0338	3464	2759	0005345	0298	14687								
		OBS	0300	0338	34645	2759			14687								
		OBS	0345	0390	34752	2762			14718								
		STD	0400	0415	3484	2766	0004792	0349	14739								
		OBS	0400	0415	34838	2766			14739								
		OBS	0450	0445	34880	2766			14760								
		OBS	0460	0450	34888	2766			14764								
		OBS	0495	0445	34890	2767			14768								
		STD	0500	0444	3489	2767	0004818	0397	14768								
		OBS	0537	0438	34900	2769			14772								
		STD	0600	0430	3491	2770	0004634	0444	14779								
		OBS	0600	0430	34908	2770			14779								
		STD	0700	0409	3491	2773	0004476	0490	14787								
		OBS	0700	0409	34910	2773			14787								
		OBS	0728	0401	34910	2774			14788								
		STD	0800	0398	3491	2774	0004444	0535	14799								
		OBS	0800	0398	34910	2774			14799								

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	NODC STATION NUMBER	WATERSOEN 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
CITY CODE	IO. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV		4452 N	04837 W		149	48	05	12	068	1968	002	10154	0914	1	30	1	4		X2	0	3	0115
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WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	30	S10	125	028	028	3	18	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-STD	Σ Δ ρ 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 CC
		STD	0000	0160	3286	2631	0017188	0000	14536								
	068	OBS	0000	0160	32863	2631			14536								
		STD	0010	0095	3286	2636	0016780	0017	14508								
		OBS	0010	0095	32865	2636			14508								
		STD	0020	0087	3286	2636	0016734	0033	14506								
	001	OBS	0020	0087	32865	2636			14506								
		OBS	0025	0074	32854	2636			14501								
		STD	0030	0040	3285	2638	0016575	0050	14486								
		OBS	0030	0040	32853	2638			14486								
		STD	0050	-0068	3321	2672	0013345	0080	14445								
		OBS	0050	-0068	33213	2672			14445								
		STD	0075	-0038	3334	2681	0012482	0112	14465								
		OBS	0075	-0038	33340	2681			14465								
		STD	0100	0013	3372	2709	0009780	0140	14498								
		OBS	0100	0013	33725	2709			14498								
		STD	0125	0079	3391	2720	0008771	0163	14534								
		OBS	0125	0079	33906	2720			14534								
		STD	0150	0120	3399	2725	0008357	0185	14558								
		OBS	0150	0120	33995	2725			14558								
		STD	0200	0200	3427	2741	0006842	0223	14606								
		OBS	0200	0200	34275	2741			14606								
		STD	0250	0286	3452	2753	0005776	0254	14654								
		STD	0300	0352	3469	2761	0005113	0281	14694								
		OBS	0300	0352	34694	2761			14694								
		STD	0400	0427	3486	2767	0004759	0331	14744								
		OBS	0400	0427	34860	2767			14744								
		STD	0500	0435	3489	2769	0004699	0378	14764								
		OBS	0500	0435	34894	2769			14764								
		STD	0600	0423	3491	2771	0004552	0424	14776								
		OBS	0600	0423	34908	2771			14776								
		STD	0700	0402	3491	2773	0004393	0469	14784								
		OBS	0700	0402	34910	2773			14784								
		STD	0800	0399	3491	2774	0004437	0513	14799								
		OBS	0800	0399	34912	2774			14799								
		OBS	0810	0399	34912	2774			14801								

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER									
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT										
318039		EV	4452 N	04837 W	149	48	05	12	078	1968		002	10155		0935	1	30	0	2		X2	0	3		0116								
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																					
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	METER (mmHg)	DRY BULB	WET BULB																									
		DT	SD	30	S10	132	028	028	6	26																							
MESSAGE TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C		SIGMA-T		SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C														
078		STD	0000	0151	3287	2633		0017070	0000		14532																						
		OBS	0000	0151	32872	2633					14532																						
		STD	0010	0123	3286	2634		0016962	0017		14521																						
001		STD	0020	0090	3286	2635		0016833	0033		14508																						
		OBS	0025	0072	32851	2636					14500																						
		STD	0030	0051	3284	2636		0016766	0050		14491																						
		OBS	0035	0031	32820	2636					14483																						
		OBS	0039	-0035	33070	2659					14456																						
		STD	0050	-0064	3320	2671		0013436	0080		14447																						
		OBS	0050	-0064	33203	2671					14447																						
		STD	0075	-0032	3347	2691		0011517	0112		14469																						
		OBS	0075	-0032	33470	2691					14469																						
		STD	0100	0017	3377	2713		0009475	0138		14500																						
		OBS	0100	0017	33768	2713					14500																						
		STD	0125	0113	3394	2721		0008729	0161		14550																						
		OBS	0125	0113	33940	2721					14550																						
		STD	0150	0128	3401	2725		0008297	0182		14562																						
		OBS	0150	0128	34010	2725					14562																						
		OBS	0157	0128	34009	2725					14563																						
		OBS	0160	0171	34248	2741					14586																						
		OBS	0182	0201	34274	2741					14603																						
		STD	0200	0208	3428	2741		0006882	0220		14609																						
		OBS	0200	0208	34278	2741					14609																						
		OBS	0217	0231	34439	2752					14624																						
		OBS	0220	0262	34560	2759					14640																						
		STD	0250	0330	3461	2757		0005454	0451		14675																						
		OBS	0288	0369	34673	2758					14698																						
		STD	0300	0370	3469	2759		0005334	0478		14701																						
		OBS	0300	0370	34689	2759					14701																						
		OBS	0311	0371	34693	2759					14703																						
		OBS	0372	0438	34865	2766					14744																						
		STD	0400	0439	3487	2766		0004833	0529		14749																						
		OBS	0400	0439	34868	2766					14749																						
		OBS	0468	0435	34883	2768					14759																						
		OBS	0473	0430	34870	2767					14757																						
		STD	0500	0430	3489	2769		0004666	0576		14762																						
		OBS	0550	0429	34910	2771					14770																						
		STD	0600	0417	3491	2772		0004490	0422		14773																						
		OBS	0600	0417	34908	2772					14773																						
		OBS	0670	0403	34897	2772					14779																						
		STD	0700	0399	3490	2773		0004442	0466		14783																						
		STD	0800	0398	3491	2774		0004444	0511		14799																						
		OBS	0800	0398	34910	2774					14799																						

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DEPTH MDCIN	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		TYPE	AMT										
318039	EV		4452 N	04837 W	149	48	05	12	080	1968		002	10156		0960	1	30	0	2		X1	0	3	0117								
		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																								
		DT	S0	30	S09	132	028	028	6	33																						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	CO ₂														
		STD	0000	0159	3287	2632	0017134		0000	14535																						
	080	OBS	0000	0159	32870	2632				14535																						
		STD	0010	0099	3285	2634	0016934		0017	14510																						
		OBS	0010	0099	32848	2634				14510																						
		STD	0020	0098	3284	2633	0017015		0034	14511																						
	001	OBS	0023	0073	32833	2634				14500																						
		OBS	0025	0050	32835	2636				14490																						
		STD	0030	-0062	3283	2641	0016268		0050	14439																						
		OBS	0031	-0078	32835	2641				14432																						
		OBS	0046	-0072	33115	2664				14441																						
		STD	0050	-0055	3325	2674	0013094		0080	14452																						
		OBS	0050	-0055	33252	2674				14452																						
		OBS	0070	-0050	33321	2680				14458																						
		STD	0075	-0037	3340	2685	0012031		0111	14466																						
		OBS	0075	-0037	33400	2685				14466																						
		OBS	0079	-0032	33423	2687				14469																						
		OBS	0084	0011	33460	2688				14490																						
		STD	0100	0024	3371	2707	0009946		0138	14502																						
		OBS	0100	0024	33710	2707				14502																						
		OBS	0115	0043	33829	2716				14515																						
		STD	0125	0090	3397	2724	0008379		0161	14540																						
		OBS	0140	0128	34053	2729				14561																						
		STD	0150	0131	3403	2727	0008172		0182	14563																						
		OBS	0150	0131	34030	2727				14563																						
		OBS	0156	0131	34060	2729				14565																						
		OBS	0161	0173	34318	2747				14588																						
		STD	0200	0204	3428	2742	0006808		0219	14607																						
		OBS	0200	0204	34283	2742				14607																						
		OBS	0219	0210	34289	2742				14613																						
		OBS	0234	0240	34420	2750				14631																						
		OBS	0248	0273	34521	2755				14649																						
		STD	0250	0278	3453	2755	0005582		0250	14651																						
		STD	0300	0361	3470	2761	0005156		0277	14697																						
		OBS	0300	0361	34700	2761				14697																						
		OBS	0320	0369	34700	2760				14704																						
		OBS	0343	0404	34809	2765				14724																						
		OBS	0379	0438	34867	2766				14745																						
		STD	0400	0439	3487	2767	0004788		0327	14749																						
		OBS	0400	0439	34874	2767				14749																						
		OBS	0456	0435	34891	2768				14757																						
		OBS	0460	0429	34890	2769				14755																						
		STD	0500	0427	3491	2771	0004493		0373	14761																						
		OBS	0500	0427	34909	2771				14761																						
		OBS	0540	0425	34908	2771				14767																						
		STD	0600	0418	3491	2772	0004465		0418	14774																						
		OBS	0600	0418	34912	2772				14774																						
		OBS	0687	0404	34905	2773				14782																						
		STD	0700	0403	3491	2773	0004439		0463	14784																						
		STD	0800	0398	3491	2774	0004462		0507	14799																						
		OBS	0800	0398	34908	2774				14799																						

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S' MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		4452 N	04837 W	149	48	05	12 097	1968	002	10157	0914	1	30	1	3		X1	0	3	0118

WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIL CODE	ND. DBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	30	S09	146	033	033	6	26	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	S CODE
		STD	0000	0161	3288	2632	0017079	0000	14536								
097		OBS	0000	0161	32879	2632			14536								
		OBS	0008	0088	32850	2635			14504								
		STD	0010	0086	3285	2635	0016843	0017	14504								
001		OBS	0018	0080	32850	2635			14503								
		STD	0020	0060	3281	2633	0016994	0033	14493								
		OBS	0025	0000	32750	2631			14466								
		STD	0030	-0075	3274	2634	0016954	0050	14432								
		OBS	0030	-0075	32740	2634			14432								
		STD	0050	-0050	3330	2678	0012715	0080	14455								
		OBS	0050	-0050	33305	2678			14455								
		OBS	0060	-0050	33370	2684			14457								
		STD	0075	-0028	3350	2693	0011319	0110	14472								
		OBS	0075	-0028	33498	2693			14472								
		OBS	0082	0000	33658	2705			14488								
		STD	0100	0010	3370	2707	0009951	0137	14496								
		OBS	0100	0010	33700	2707			14496								
		STD	0125	0115	3393	2719	0008847	0160	14551								
		OBS	0139	0138	34003	2724			14564								
		STD	0150	0138	3404	2727	0008157	0181	14567								
		OBS	0150	0138	34038	2727			14567								
		OBS	0158	0180	34210	2738			14589								
		STD	0200	0207	3430	2743	0006728	0219	14609								
		OBS	0200	0207	34297	2743			14609								
		OBS	0220	0220	34398	2750			14619								
		OBS	0227	0265	34440	2749			14641								
		STD	0250	0283	3450	2752	0005873	0250	14653								
		STD	0300	0340	3464	2759	0005365	0278	14688								
		OBS	0300	0340	34645	2759			14688								
		OBS	0312	0357	34682	2760			14697								
		OBS	0357	0392	34800	2766			14721								
		OBS	0370	0435	34850	2765			14742								
		STD	0400	0439	3485	2765	0004968	0330	14749								
		OBS	0400	0439	34850	2765			14749								
		STD	0500	0437	3490	2769	0004630	0378	14765								
		OBS	0580	0423	34913	2771			14773								
		STD	0600	0418	3491	2772	0004483	0423	14774								
		OBS	0600	0418	34910	2772			14774								
		STD	0700	0408	3491	2773	0004466	0468	14786								
		OBS	0700	0408	34910	2773			14786								
		STD	0800		3491												
		OBS	0800	0498P	34907	2763P											
		OBS	0849	0490P	34910	2764P											

REFERENCE STATION CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	GURT INCHES	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
						10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
						10"	1"	MO	DAY	HR	1/10														
318039		EV	4452 N	04837 W		149	48	05	12	107	1968	002	10158		0896	1	30	2			X4	0	3		0119
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB													
						DT	SD	32	513	159	033	033	3					32							
MESSNGR TIME HR 1/10	CST 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 ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC								
107		STD	0000	0162	3286	2631	0017224	0000	14536																
		OBS	0000	0162	32860	2631			14536																
		OBS	0008	0161	32855	2631			14537																
001		STD	0010	0132	3285	2632	0017080	0017	14525																
		OBS	0012	0109	32855	2634			14515																
		STD	0020	0095	3286	2635	0016843	0034	14510																
		OBS	0025	0087	32859	2636			14507																
		STD	0030	-0032	3286	2642	0016180	0050	14453																
		OBS	0037	-0099	32865	2645			14423																
		OBS	0038	-0099	32867	2645			14424																
		OBS	0039	-0079	32870	2644			14433																
		STD	0050	-0071	3316	2668	0013697	0080	14443																
		OBS	0050	-0071	33165	2668			14443																
		OBS	0051	-0061	33210	2671			14448																
		OBS	0061	-0059	33270	2676			14452																
		STD	0075	-0042	3334	2681	0012481	0113	14463																
		OBS	0075	-0042	33338	2681			14463																
		STD	0100	0000	3372	2710	0009713	0141	14492																
		OBS	0100	0000	33725	2710			14492																
		OBS	0121	0047	33806	2714			14518																
		STD	0125	0048	3381	2714	0009311	0164	14519																
		OBS	0136	0051	33824	2715			14522																
		STD	0150	0125	3406	2729	0007917	0186	14561																
		OBS	0150	0125	34058	2729			14561																
		OBS	0153	0137	34067	2729			14567																
		OBS	0167	0135	34068	2730			14569																
		OBS	0169	0170	34195	2737			14586																
		OBS	0190	0181	34228	2739			14595																
		STD	0200	0190	3427	2742	0006818	0223	14601																
		OBS	0200	0190	34268	2742			14601																
		OBS	0230	0213	34340	2745			14617																
		OBS	0237	0249	34470	2753			14636																
		STD	0250	0279	3452	2754	0005718	0254	14651																
		OBS	0260	0293	34541	2755			14660																
		OBS	0280	0300	34570	2756			14666																
		STD	0300	0320	3461	2758	0005395	0282	14679																
		OBS	0300	0320	34614	2758			14679																
		OBS	0362	0388	34763	2763			14720																
		OBS	0368	0407	34795	2764			14729																
		STD	0400	0407	3482	2766	0004838	0333	14735																
		OBS	0400	0407	34820	2766			14735																
		OBS	0415	0428	34872	2768			14747																
		STD	0500	0425	3491	2771	0004490	0380	14760																
		OBS	0541	0420	34912	2772			14765																
		STD	0600	0410	3491	2773	0004382	0424	14771																
		OBS	0600	0410	34911	2773			14771																
		STD	0700	0398	3491	2774	0004341	0468	14782																
		STD	0800	0391	3491	2775	0004350	0511	14796																
		OBS	0800	0391	34911	2775			14796																

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 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	

318039	EV	4452 N	04837 W	149	48	05	12	116	1968	002	10159	0878	1	30	2	3			X1	0	3		0120
					WATER			WIND			BARO-	AIR TEMP. °C		VIS.	ND.	OBS.	SPECIAL						
					COLOR	TRANS.	DIR.	SPEED	OR	FORCE	METER	DRY	WET	CODE	CODE	DEPTH	OBSERVATIONS						
					CODE	(m)					(mb)	RULB	BULB										
					DT	SD	32	S13	159	033	033	4	20										

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CC
		STD	0000	0108	3487	2635	0016799	0000	14512								
116		OBS	0000	0108	32872	2635			14512								
		STD	0010	0097	3289	2637	0016617	0016	14509								
		OBS	0010	0097	32888	2637			14509								
		STD	0020	0052	3289	2640	0016315	0033	14491								
001		OBS	0020	0052	32895	2640			14491								
		OBS	0025	-0079	32900	2647			14431								
		STD	0030	-0080	3297	2652	0015198	0048	14433								
		OBS	0030	-0080													
		STD	0050	-0069	3322	2672	0013291	0077	14445								
		OBS	0050	-0069	33220	2672			14445								
		STD	0075	-0039	3350	2694	0011254	0108	14467								
		OBS	0075	-0039	33501	2694			14467								
		STD	0100	0021	3380	2715	0009250	0133	14502								
		OBS	0100	0021	33800	2715			14502								
		STD	0125	0119	3399	2724	0008388	0155	14553								
		OBS	0125	0119	33990	2724			14553								
		STD	0150	0138	3410	2732	0007688	0175	14568								
		OBS	0150	0138	34100	2732			14568								
		STD	0200	0200	3431	2744	0006563	0211	14606								
		OBS	0200	0200	34312	2744			14606								
		STD	0250	0276	3452	2755	0005662	0242	14650								
		OBS	0250	0276	34520	2755			14650								
		STD	0300	0321	3461	2758	0005440	0269	14679								
		OBS	0300	0321	34610	2758			14679								
		OBS	0355	0420	34825	2765			14733								
		STD	0400	0432	3489	2769	0004593	0320	14746								
		OBS	0400	0432	34889	2769			14746								
		STD	0500	0423	3492	2772	0004363	0364	14760								
		OBS	0500	0423	34921	2772			14760								
		STD	0600	0409	3492	2774	0004282	0408	14770								
		OBS	0600	0409	34923	2774			14770								
		STD	0700	0398	3492	2775	0004235	0450	14782								
		OBS	0700	0398	34925	2775			14782								
		STD	0800	0388	3492	2776	0004238	0492	14795								
		OBS	0800	0388	34922	2776			14795								
		OBS	0850	0386	34923	2776			14802								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIDAL LAGE	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"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318039		EV	4459 N	04847 W		149	48	05	12	145	1968	002	10160	0951	1	23	1	4		X1	0 3		0121
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	OIR.	SPEED OF FORCE	ORY BULB	WET BULB												
						DT	SD	31	S12	166	039	039	6				32						
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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						
		STD	0000	0160	3292	2636	0016772	0000	14536														
145		OBS	0000	0160	32918	2636			14536														
		STD	0010	0135	3294	2639	0016455	0016	14527														
		OBS	0019	0112	32952	2642			14519														
		STD	0020	0090	3295	2643	0016082	0032	14509														
001		OBS	0025	0000	32957	2648			14469														
		STD	0030	-0053	3296	2650	0015364	0048	14445														
		OBS	0035	-0085	32960	2652			14431														
		STD	0050	-0060	3326	2675	0013030	0077	14449														
		OBS	0050	-0060	33258	2675			14449														
		OBS	0065	-0038	33360	2682			14463														
		STD	0075	-0020	3354	2696	0010996	0107	14476														
		OBS	0075	-0020	33545	2696			14476														
		OBS	0090	0000	33710	2709			14490														
		STD	0100	0032	3382	2716	0009118	0132	14508														
		OBS	0100	0032	33825	2716			14508														
		STD	0125	0128	3403	2727	0008157	0153	14558														
		OBS	0128	0132	34042	2728			14560														
		OBS	0140	0135	34078	2730			14564														
		STD	0150	0150	3412	2732	0007639	0173	14573														
		OBS	0150	0150	34118	2732			14573														
		OBS	0155	0146	34141	2735			14572														
		OBS	0165	0150	34185	2738			14577														
		OBS	0195	0190	34260	2741			14600														
		STD	0200	0199	3431	2744	0006571	0209	14606														
		OBS	0200	0199	34310	2744			14606														
		OBS	0217	0220	34485	2757			14620														
		STD	0250	0233	3455	2761	0005050	0238	14632														
		OBS	0278	0305	34665	2763			14669														
		STD	0300	0400	3479	2764	0004889	0262	14715														
		OBS	0300	0400	34790	2764			14715														
		OBS	0350	0443	34850	2764			14742														
		OBS	0380	0430	34875	2768			14742														
		OBS	0395	0439	34870	2766			14748														
		STD	0400	0430	3487	2767	0004717	0311	14745														
		OBS	0400	0430	34870	2767			14745														
		OBS	0450	0432	34895	2769			14755														
		OBS	0480	0430	34899	2770			14759														
		STD	0500	0429	3490	2770	0004549	0357	14762														
		OBS	0580	0421	34915	2772			14772														
		STD	0600	0418	3491	2772	0004447	0402	14774														
		OBS	0600	0418	34915	2772			14774														
		OBS	0675	0400	34917	2774			14779														
		STD	0700	0400	3492	2774	0004310	0446	14783														
		OBS	0700	0400	34919	2774			14783														
		OBS	0754	0400	34920	2774			14792														
		STD	0800	0399	3492	2775	0004384	0489	14799														
		OBS	0800	0399	34920	2775			14799														
		OBS	0852	0390	34920	2775			14804														

MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^o	$\Delta \rho / \rho$, x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SIO ₄ -Si $\mu g - dl/l$	pH	S C C
157		STD	0000	0162	3297	2640	0016355	0000	14538								
		OBS	0000	0162	32975	2640			14538								
001		OBS	0005	0160	32967	2640			14538								
		OBS	0007	0146	32953	2639			14532								
		STD	0010	0144	3296	2640	0016356	0016	14532								
		STD	0020	0138	3298	2642	0016130	0032	14531								
		OBS	0023	0136	32993	2643			14530								
		OBS	0025	0120	32999	2645			14524								
		STD	0030	-0015	3300	2652	0015186	0048	14463								
		OBS	0033	-0068	33020	2656			14439								
		OBS	0045	-0068	33220	2672			14444								
		STD	0050	-0053	3331	2679	0012661	0076	14453								
		OBS	0050	-0053	33310	2679			14453								
		OBS	0060	-0041	33370	2683			14461								
		OBS	0062	-0012	33380	2683			14475								
		STD	0075	-0010	3346	2689	0011657	0106	14479								
		OBS	0075	-0010	33465	2689			14479								
		OBS	0080	-0010	33476	2690			14480								
		STD	0100	0011	3372	2709	0009780	0133	14497								
		OBS	0100	0011	33724	2709			14497								
		OBS	0102	0053	33738	2708			14516								
		STD	0125	0069	3389	2719	0008849	0156	14529								
		OBS	0133	0088	33950	2723			14540								
		STD	0150	0152	3410	2731	0007784	0177	14574								
		OBS	0150	0152	34100	2731			14574								
		OBS	0168	0153	34200	2739			14579								
		OBS	0185	0202	34318	2745			14605								
		OBS	0198	0205	34345	2747			14608								
		STD	0200	0215	3437	2748	0006247	0212	14614								
		OBS	0200	0215	34370	2748			14614								
		OBS	0211	0280	34631	2763			14647								
		STD	0250	0371	3472	2761	0005084	0240	14694								
		OBS	0289	0419	34805	2763			14721								
		STD	0300	0425	3483	2765	0004862	0265	14726								
		OBS	0300	0425	34830	2765			14726								
		OBS	0359	0431	34862	2766			14739								
		OBS	0361	0443	34882	2767			14744								
		OBS	0369	0443	34885	2767			14746								
		OBS	0379	0431	34847	2765			14742								
		STD	0400	0430	3487	2767	0004690	0313	14745								
		OBS	0400	0430	34873	2767			14745								
		STD	0500	0429	3491	2771	0004496	0359	14762								
		OBS	0550	0429	34920	2771			14770								
		STD	0600	0410	3492	2773	0004310	0403	14771								
		OBS	0600	0410	34921	2773			14771								
		OBS	0695	0401	34919	2774			14783								
		STD	0700	0401	3492	2774	0004320	0446	14783								
		STD	0800	0392	3492	2775	0004299	0489	14796								
		OBS	0800	0392	34920	2775			14796								
		OBS	0850	0382	34920	2776			14800								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	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
318039		EV	4458 N	04843 W		149	48	05	12	167	1968	002	10162	0905	1	30	1	3		X1	0	3	0123
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)	DRY BULB	WET BULB											
						DT	SD	31	512	186	039	033	7	30									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	Si O ₂ -Si $\mu g - ml/l$	pH	S C						
		STD	0000	0162	3296	2639	0016482	0000	14538														
167		OBS	0000	0162	32958	2639			14538														
		OBS	0008	0117	32965	2642			14519														
		STD	0010	0117	3296	2642	0016156	0016	14519														
		STD	0020	0117	3296	2642	0016183	0032	14521														
001		OBS	0022	0117	32960	2642			14521														
		OBS	0025	0000	32960	2648			14469														
		STD	0030	-0092	3303	2658	0014673	0047	14428														
		OBS	0030	-0092	33030	2658			14428														
		OBS	0037	-0092	33210	2672			14432														
		OBS	0047	-0040	33270	2675			14458														
		STD	0050	-0038	3327	2675	0012988	0075	14460														
		OBS	0050	-0038	33275	2675			14460														
		OBS	0060	-0040	33435	2688			14463														
		STD	0075	-0017	3347	2691	0011548	0106	14476														
		OBS	0075	-0017	33475	2691			14476														
		STD	0100	-0007	3361	2701	0010569	0133	14487														
		OBS	0100	-0007	33608	2701			14487														
		STD	0125	0005	3377	2713	0009413	0158	14499														
		OBS	0127	0010	33785	2714			14502														
		STD	0150	0110	3404	2729	0007965	0180	14554														
		OBS	0150	0110	34038	2729			14554														
		OBS	0162	0150	34065	2728			14574														
		OBS	0177	0150	34240	2742			14579														
		OBS	0190	0193	34288	2743			14601														
		STD	0200	0200	3433	2746	0006428	0216	14606														
		OBS	0200	0200	34330	2746			14606														
		OBS	0212	0225	34390	2749			14620														
		OBS	0245	0315	34595	2757			14667														
		STD	0250	0331	3464	2759	0005265	0245	14676														
		OBS	0280	0401	34810	2766			14713														
		STD	0300	0425	3482	2764	0004898	0271	14726														
		OBS	0300	0425	34825	2764			14726														
		OBS	0350	0425	34858	2767			14735														
		OBS	0380	0435	34863	2766			14744														
		STD	0400	0440	3487	2766	0004843	0319	14749														
		OBS	0400	0440	34868	2766			14749														
		OBS	0430	0430	34888	2769			14750														
		STD	0500	0430	3490	2770	0004559	0366	14762														
		OBS	0530	0430	34910	2770			14767														
		STD	0600	0412	3492	2773	0004340	0411	14772														
		OBS	0600	0412	34920	2773			14772														
		OBS	0670	0408	34918	2773			14781														
		STD	0700	0400	3492	2774	0004310	0454	14783														
		OBS	0700	0400	34918	2774			14783														
		STD	0800	0392	3492	2775	0004308	0497	14796														
		OBS	0800	0392	34919	2775			14796														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318039	EV	4500 N	04848 W	149	58 05 12 177	1968		002	10163	0907	1	30	1	3		X1	0	3				0124	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S0	31	S07	190	044	039	7	28									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Σ AD 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 CONC
177	STD	0000	0162	3273	2621	0018202	0000	14535									
	OBS	0000	0162	32732	2621			14535									
001	STD	0010	0104	3278	2628	0017459	0017	14511									
	OBS	0012	0099	32800	2630			14509									
	STD	0020	0099	3290	2638	0016544	0034	14512									
	OBS	0021	0099	32908	2639			14512									
	OBS	0025	0063	32938	2643			14497									
	STD	0030	-0001	3297	2649	0015504	0050	14469									
	OBS	0037	-0062	33010	2655			14443									
	STD	0050	-0084	3309	2662	0014220	0080	14436									
	OBS	0050	-0084	33091	2662			14436									
	OBS	0052	-0091	33109	2664			14433									
	OBS	0063	-0091	33170	2669			14436									
	STD	0075	-0031	3334	2681	0012493	0114	14468									
	OBS	0075	-0031	33343	2681			14468									
	OBS	0080	-0049	33355	2682			14461									
	OBS	0097	-0012	33381	2683			14481									
	STD	0100	-0010	3347	2690	0011597	0144	14484									
	OBS	0100	-0010	33472	2690			14484									
	OBS	0115	-0010	33538	2695			14487									
	STD	0125	0011	3366	2704	0010227	0171	14500									
	STD	0150	0069	3391	2721	0008705	0195	14534									
	OBS	0150	0069	33907	2721			14534									
	OBS	0181	0146	34062	2728			14577									
	OBS	0193	0150	34119	2733			14580									
	STD	0200	0185	3428	2743	0006645	0233	14599									
	OBS	0200	0185	34285	2743			14599									
	OBS	0229	0213	34355	2747			14617									
	OBS	0242	0298	34565	2756			14659									
	STD	0250	0298	3459	2758	0005353	0263	14661									
	OBS	0271	0339	34648	2759			14683									
	OBS	0283	0389	34780	2764			14708									
	STD	0300	0407	3479	2764	0004939	0289	14718									
	OBS	0300	0407	34793	2764			14718									
	OBS	0318	0427	34806	2762			14730									
	STD	0400	0429	3485	2766	0004833	0338	14745									
	OBS	0400	0429	34853	2766			14745									
	STD	0500	0430	3489	2769	0004657	0385	14762									
	OBS	0563	0430	34910	2770			14773									
	STD	0600	0418	3492	2772	0004420	0430	14774									
	OBS	0600	0418	34919	2772			14774									
	STD	0700	0401	3492	2774	0004320	0474	14783									
	OBS	0700	0401	34918	2774			14783									
	STD	0800	0398	3492	2775	0004373	0518	14799									
	OBS	0800	0398	34919	2775			14799									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDEX	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318039		EV	4501 N	04851 W		149	58	05	12	186	1968	002	10164	0887	1	30	1	3		X1	0	3	0125
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SO	31	516	190	039	033	7	25									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma l/l$	TOTAL-P $\mu g - \sigma l/l$	NO ₂ -N $\mu g - \sigma l/l$	NO ₃ -N $\mu g - \sigma l/l$	SiO ₄ -Si $\mu g - \sigma l/l$	pH	S CC						
186		STD	0000	0185	3268	2615	0018746	0000	14544														
		OBS	0000	0185	32680	2615			14544														
001		OBS	0009	0089	32705	2623			14503														
		STD	0010	0088	3273	2625	0017785	0018	14503														
		STD	0020	0083	3288	2638	0016580	0035	14505														
		OBS	0021	0083	32889	2638			14505														
		OBS	0025	0045	32900	2641			14488														
		STD	0030	-0027	3292	2646	0015782	0051	14456														
		STD	0050	-0112	3298	2654	0014984	0082	14421														
		OBS	0050	-0112	32980	2654			14421														
		OBS	0060	-0031	33360	2682			14466														
		OBS	0068	-0030	33350	2681			14467														
		OBS	0071	-0046	33340	2681			14460														
		STD	0075	-0030	3350	2693	0011292	0115	14471														
		OBS	0075	-0030	33500	2693			14471														
		OBS	0079	-0009	33560	2697			14482														
		OBS	0099	-0001	33562	2697			14489														
		STD	0100	0011	3363	2702	0010456	0142	14495														
		OBS	0100	0011	33635	2702			14495														
		STD	0125	0068	3389	2719	0008849	0166	14529														
		STD	0150	0120	3408	2732	0007681	0187	14559														
		OBS	0150	0120	34085	2732			14559														
		STD	0200	0205	3431	2744	0006592	0222	14608														
		OBS	0200	0205	34313	2744			14608														
		OBS	0218	0210	34340	2746			14614														
		OBS	0230	0295	34582	2758			14656														
		STD	0250	0303	3460	2759	0005293	0252	14663														
		OBS	0267	0321	34641	2760			14674														
		STD	0300	0385	3477	2764	0004860	0278	14709														
		OBS	0300	0385	34773	2764			14709														
		OBS	0335	0421	34832	2765			14730														
		STD	0400	0419	3483	2765	0004903	0326	14740														
		OBS	0400	0419	34829	2765			14740														
		STD	0500	0427	3490	2770	0004520	0373	14761														
		OBS	0500	0427	34905	2770			14761														
		OBS	0570	0422	34918	2772			14771														
		STD	0600	0414	3492	2773	0004379	0418	14772														
		OBS	0600	0414	34918	2773			14772														
		STD	0700	0399	3492	2774	0004308	0461	14783														
		OBS	0700	0399	34917	2774			14783														
		STD	0800	0398	3492	2775	0004373	0505	14799														
		OBS	0800	0398	34919	2775			14799														

REFERENCE	SHIP CODE	LATITUDE ° ' / 10	LONGITUDE ° ' / 10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPE	AMT	

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			
DT	SD	30	S16	193	044	033	7	34	

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma_t$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - 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	SSC
197		STO	0000	0180	3276	2622	0018094	0000	14543								
		OBS	0000	0180	32762	2622			14543								
		STO	0010	0180	3274	2620	0018276	0018	14544								
002		OBS	0010	0180	32738	2620			14544								
		STO	0020	0090	3270	2623	0018019	0036	14505								
		OBS	0020	0090	32699	2623			14505								
		OBS	0025	0063	32680	2623			14494								
		STO	0030	0009	3277	2633	0017061	0053	14471								
		OBS	0040	-0060	32910	2647			14443								
		STO	0050	-0075	3300	2655	0014944	0085	14439								
		OBS	0050	-0075	33001	2655			14439								
		OBS	0055	-0110	33101	2664			14425								
		OBS	0063	-0110	33257	2677			14428								
		OBS	0070	-0020	33412	2686			14473								
		STO	0075	-0020	3354	2696	0011032	0118	14476								
		OBS	0075	-0020	33540	2696			14476								
		OBS	0087	-0034	33545	2697			14471								
		OBS	0095	-0034	33544	2697			14473								
		STO	0100	-0002	3354	2695	0011084	0146	14488								
		OBS	0100	-0002	33544	2695			14488								
		OBS	0110	-0002	33570	2698			14490								
		STO	0125	0029	3371	2707	0009953	0172	14509								
		OBS	0130	0040	33755	2710			14515								
		STO	0150	0083	3389	2719	0008918	0195	14540								
		OBS	0150	0083	33890	2719			14540								
		OBS	0162	0094	33940	2722			14548								
		OBS	0172	0135	34023	2726			14569								
		OBS	0182	0135	34080	2730			14571								
		OBS	0190	0154	34123	2733			14582								
		STO	0200	0154	3421	2740	0006979	0235	14584								
		OBS	0200	0154	34210	2740			14584								
		OBS	0230	0220	34352	2746			14620								
		OBS	0245	0220	34395	2749			14623								
		STO	0250	0236	3444	2752	0005924	0267	14632								
		OBS	0285	0325	34640	2760			14679								
		STO	0300	0350	3467	2759	0005292	0295	14692								
		OBS	0300	0350	34667	2759			14692								
		OBS	0315	0350	34690	2761			14695								
		OBS	0350	0408	34800	2764			14727								
		STO	0400	0425	3484	2765	0004882	0346	14743								
		OBS	0400	0425	34840	2765			14743								
		OBS	0455	0425	34878	2768			14752								
		OBS	0460	0430	34878	2768			14755								
		STO	0500	0430	3490	2769	0004613	0394	14762								
		OBS	0540	0430	34910	2770			14769								
		STO	0600	0420	3492	2772	0004450	0439	14775								
		OBS	0600	0420	34918	2772			14775								
		STO	0700	0400	3492	2774	0004301	0483	14783								
		OBS	0700	0400	34920	2774			14783								
		STO	0800	0398	3492	2775	0004373	0526	14799								
		OBS	0800	0398	34920	2775			14799								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

318039		EV	4503 N	04853 W		149	58	05	12	208	1968	002	10166	0905	1	30	1	3		X1	0	3	0127
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
OT	SD	30	S16	196	044	033	7	31	

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	D ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -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
		STD	0000	0187	3263	2611	0019108	0000	14544								
	208	OBS	0000	0187	32635	2611			14544								
		OBS	0005	0180	32698	2617			14543								
		STO	0010	0069	3270	2624	0017902	0018	14494								
	001	OBS	0014	0003	32700	2627			14465								
		STO	0020	-0046	3277	2635	0016798	0035	14444								
		OBS	0025	-0070	32859	2643			14435								
		STO	0030	-0070	3303	2657	0014783	0051	14438								
		OBS	0035	-0070	33088	2662			14440								
		OBS	0036	-0052	33088	2661			14448								
		OBS	0040	-0052	33130	2664			14450								
		OBS	0042	-0095	33135	2666			14430								
		STO	0050	-0095	3326	2676	0012890	0079	14433								
		OBS	0050	-0095	33260	2676			14433								
		OBS	0062	-0038	33301	2677			14462								
		OBS	0066	-0013	33378	2683			14475								
		STO	0075	-0019	3340	2685	0012080	0110	14474								
		OBS	0075	-0019	33404	2685			14474								
		OBS	0082	-0001	33551	2696			14486								
		OBS	0097	0001	33542	2695			14489								
		STO	0100	0025	3371	2707	0009973	0138	14503								
		OBS	0100	0025	33708	2707			14503								
		STD	0125	0092	3391	2720	0008812	0161	14540								
		STD	0150	0142	3408	2730	0007825	0182	14569								
		OBS	0150	0142	34085	2730			14569								
		STO	0200	0187	3434	2747	0006259	0217	14601								
		OBS	0200	0187	34339	2747			14601								
		OBS	0215	0219	34338	2745			14617								
		OBS	0227	0219	34372	2748			14620								
		OBS	0234	0279	34532	2755			14649								
		STO	0250	0281	3454	2756	0005530	0247	14653								
		STO	0300	0354	3470	2762	0005088	0273	14694								
		OBS	0300	0354	34700	2762			14694								
		OBS	0302	0359	34710	2762			14697								
		OBS	0303	0372	34752	2764			14703								
		OBS	0341	0410	34804	2764			14726								
		OBS	0393	0421	34842	2766			14740								
		STO	0400	0434	3491	2770	0004461	0321	14747								
		OBS	0400	0434	34910	2770			14747								
		STO	0500	0433	3491	2770	0004546	0366	14764								
		OBS	0520	0430	34912	2771			14766								
		OBS	0590	0409	34915	2773			14769								
		STO	0600	0407	3492	2773	0004315	0410	14769								
		OBS	0600	0407	34916	2773			14769								
		STO	0700	0401	3492	2774	0004330	0453	14784								
		STO	0800	0398	3492	2775	0004373	0497	14799								
		OBS	0800	0398	34919	2775			14799								
		OBS	0865	0397	34919	2775			14809								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARCOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR./10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

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 $\mu\text{g} \cdot \text{dl/l}$	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	0091	3275	2627	0017632	0000	14503								
210		OBS	0000	0091	32750	2627			14503								
		STD	0010	0033	3279	2633	0016986	0017	14479								
		STD	0020	-0012	3286	2641	0016275	0033	14461								
		OBS	0025	-0030	32901	2645			14454								
		STD	0030	-0043	3296	2651	0015355	0049	14450								
001		STD	0050	-0068	3318	2669	0013562	0078	14445								
		OBS	0050	-0068	33185	2669			14445								
		STD	0075	-0035	3339	2684	0012140	0110	14467								
		OBS	0075	-0035	33387	2684			14467								
		STD	0100	0001	3358	2699	0010797	0139	14490								
		OBS	0100	0001	33584	2699			14490								
		STD	0125	0081	3386	2717	0009106	0164	14535								
		STD	0150	0138	3406	2729	0007977	0185	14567								
		OBS	0150	0138	34062	2729			14567								
		STD	0200	0181	3422	2738	0007111	0223	14596								
		OBS	0200	0181	34219	2738			14596								
		OBS	0219	0229	34389	2748			14623								
		OBS	0235	0231	34403	2749			14627								
		STD	0250	0289	3454	2755	0005598	0255	14656								
		OBS	0265	0330	34640	2759			14678								
		STD	0300	0364	3470	2761	0005185	0282	14699								
		OBS	0300	0364	34700	2761			14699								
		OBS	0352	0428	34855	2766			14736								
		STD	0400	0442	3486	2765	0004926	0332	14750								
		OBS	0400	0442	34860	2765			14750								
		STD	0500	0438	3491	2769	0004631	0380	14766								
		OBS	0500	0438	34907	2769			14766								
		STD	0600	0421	3490	2771	0004567	0426	14775								
		OBS	0600	0421	34903	2771			14775								
		OBS	0626	0408	34899	2772			14774								
		STD	0700	0400	3491	2773	0004399	0471	14783								
		STD	0800	0390	3492	2775	0004286	0514	14795								
		OBS	0800	0390	34918	2775			14795								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDEX	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NO. OF STATION NUMBER
CRUISE CODE	IO NO.					10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
318039	EV		4503 N	048532W	149	58	05	12	227	1968	002	10168	0923	1	30	2	3	X1	0	3	0129
						WATER		WIND		AIR TEMP. °C											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	CRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						DT	SO	30	516	203	039	033	7	26							

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t 17	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	Si O ₄ -Si μg - dl/l	pH	SEC
		STD	0000	0100	3253	2609	0019325	0000	14504								
227		OBS	0000	0100	32535	2609			14504								
		STD	0010	0032	3279	2633	0017023	0018	14479								
		STD	0020	-0025	3291	2645	0015840	0034	14456								
		OBS	0020	-0025	32910	2645			14456								
002		OBS	0025	-0050	32920	2647			14445								
		STD	0030	-0062	3297	2652	0015200	0050	14441								
		OBS	0030	-0062	32975	2652			14441								
		OBS	0040	-0062	33199	2670			14446								
		STD	0050	-0040	3327	2675	0013015	0078	14459								
		OBS	0050	-0040	33270	2675			14459								
		STD	0075	-0027	3338	2683	0012241	0109	14470								
		OBS	0075	-0027	33378	2683			14470								
		OBS	0079	-0027	33380	2683			14471								
		OBS	0080	0000	33400	2684			14484								
		STD	0100	0015	3376	2712	0009483	0137	14499								
		OBS	0100	0015	33765	2712			14499								
		STD	0125	0100	3396	2723	0008517	0159	14544								
		STD	0150	0140	3408	2731	0007815	0180	14568								
		OBS	0150	0140	34085	2731			14568								
		OBS	0170	0140	34143	2735			14572								
		OBS	0183	0180	34200	2737			14593								
		STD	0200	0185	3425	2740	0006915	0216	14599								
		OBS	0200	0185	34250	2740			14599								
		OBS	0220	0230	34370	2747			14623								
		OBS	0230	0230	34385	2748			14625								
		STD	0250	0278	3450	2753	0005798	0248	14651								
		STD	0300	0342	3465	2759	0005357	0276	14689								
		OBS	0300	0342	34648	2759			14689								
		OBS	0310	0345	34650	2759			14692								
		OBS	0360	0430	34825	2764			14738								
		STD	0400	0430	3488	2768	0004645	0326	14745								
		OBS	0400	0430	34880	2768			14745								
		OBS	0420	0430	34902	2770			14749								
		OBS	0425	0436	34903	2769			14752								
		STD	0500	0436	3491	2770	0004584	0372	14765								
		OBS	0500	0436	34910	2770			14765								
		STD	0600	0420	3492	2772	0004432	0417	14775								
		OBS	0600	0420	34920	2772			14775								
		STD	0700	0400	3492	2774	0004310	0461	14783								
		OBS	0700	0400	34918	2774			14783								
		STD	0800	0394	3492	2775	0004347	0504	14797								
		OBS	0800	0394	34917	2775			14797								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT MOOT	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
CRUISE CODE	IO. NO.					10*	1*	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			NGT	PER	SEA	TYPE		AMT		
318039	EV	4501 N	04853 W	149	58	05	12	239	1968	002	10169	0905	1	30	1	3				X2	0	3		0130
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
		DT	SD	30	S14	203	039	033	7	20														
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³		Σ 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	0165	3274	2621	0018148		0000	14536														
239		OBS	0000	0165	32742	2621				14536														
		STD	0010	0087	3268	2621	0018165		0018	14502														
		OBS	0010	0087	32677	2621				14502														
		STD	0020	-0036	3289	2644	0015948		0035	14450														
001		OBS	0020	-0036	32890	2644				14450														
		OBS	0025	-0049	33090	2661				14448														
		STD	0030	-0049	3312	2663	0014134		0050	14449														
		OBS	0030	-0049	33120	2663				14449														
		OBS	0040	-0063	33160	2667				14445														
		STD	0050	-0058	3330	2678	0012714		0077	14451														
		OBS	0050	-0058	33301	2678				14451														
		STD	0075	-0020	3344	2688	0011800		0107	14474														
		OBS	0075	-0020	33440	2688				14474														
		STD	0100	0042	3376	2711	0009644		0134	14511														
		OBS	0100	0042	33763	2711				14511														
		STD	0125	0097	3393	2721	0008696		0157	14543														
		STD	0150	0145	3409	2730	0007844		0178	14570														
		OBS	0150	0145	34086	2730				14570														
		STD	0200	0220	3436	2747	0006357		0213	14616														
		OBS	0200	0220	34360	2747				14616														
		OBS	0222	0234	34380	2747				14626														
		STD	0250	0319	3457	2755	0005654		0243	14670														
		OBS	0270	0360	34679	2759				14692														
		STD	0300	0389	3478	2765	0004827		0269	14710														
		OBS	0300	0389	34783	2765				14710														
		OBS	0340	0439	34860	2765				14739														
		STD	0400	0440	3489	2768	0004682		0317	14750														
		OBS	0400	0440	34890	2768				14750														
		STD	0500	0424	3491	2771	0004436		0363	14760														
		OBS	0500	0424	34912	2771				14760														
		STD	0600	0413	3492	2773	0004377		0407	14772														
		OBS	0600	0413	34916	2773				14772														
		STD	0700	0401	3491	2774	0004365		0450	14783														
		OBS	0700	0401	34913	2774				14783														
		STD	0800	0396	3491	2774	0004413		0494	14798														
		OBS	0800	0396	34911	2774				14798														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MOON PHASE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
CRUISE CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

318039	EV	4501 N	04853 W	149	58	05	13	012	1968	002	10170	0860	1	30	2	3		X2	0	3		0131
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WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLDER CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB				
DT	SD	30	S19	210	039	033	7	25		

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S °C
		STD	0000	0158	3273	2621	0018148	0000	14533								
012		OBS	0000	0158	32735	2621			14533								
		STD	0010	-0070	3272	2632	0017137	0017	14431								
		OBS	0010	-0070	32720	2632			14431								
001		STD	0020	-0046	3274	2633	0017034	0034	14444								
		OBS	0025	-0040	32792	2637			14448								
		STD	0030	-0042	3291	2646	0015772	0051	14449								
		OBS	0040	-0047	33080	2660			14451								
		STD	0050	-0065	3316	2667	0013762	0080	14446								
		OBS	0050	-0065	33160	2667			14446								
		OBS	0060	-0065	33220	2672			14448								
		STD	0075	-0020	3338	2683	0012260	0113	14474								
		OBS	0075	-0020	33380	2683			14474								
		OBS	0088	-0005	33410	2685			14483								
		STD	0100	0020	3364	2702	0010459	0141	14500								
		OBS	0100	0020	33640	2702			14500								
		STD	0125	0098	3391	2719	0008886	0165	14543								
		OBS	0130	0105	33938	2721			14547								
		STD	0150	0107	3400	2726	0008234	0187	14552								
		OBS	0150	0107	34000	2726			14552								
		OBS	0190	0118	34038	2728			14564								
		STD	0200	0140	3413	2734	0007521	0226	14577								
		OBS	0200	0140	34125	2734			14577								
		OBS	0240	0230	34380	2747			14627								
		STD	0250	0230	3441	2749	0006109	0260	14629								
		OBS	0258	0230	34440	2752			14631								
		STD	0300	0390	3478	2764	0004854	0288	14711								
		OBS	0300	0390	34780	2764			14711								
		OBS	0338	0440	34865	2766			14739								
		STD	0400	0445	3490	2768	0004660	0335	14752								
		OBS	0400	0445	34900	2768			14752								
		OBS	0410	0440	34910	2769			14752								
		OBS	0440	0440	34910	2769			14757								
		STD	0500	0430	3491	2771	0004479	0381	14762								
		OBS	0500	0430	34915	2771			14762								
		STD	0600	0415	3492	2773	0004380	0425	14773								
		OBS	0600	0415	34919	2773			14773								
		OBS	0627	0405	34916	2774			14773								
		STD	0700	0403	3492	2774	0004359	0469	14784								
		OBS	0700	0403	34916	2774			14784								
		STD	0800	0395	3491	2774	0004411	0513	14797								
		OBS	0800	0395	34910	2774			14797								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. ND.					10"	1"		CRUISE ND.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

318039	EV	4503 N	048532W	149	58	05	13	070	1968	002	10172	0914	1	32	2	3		X2	0	3		0133
WATER					WIND			BARO-	AIR TEMP. °C			VIS.	NO.	SPECIAL								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	OBSERVATIONS											
OT		SD	34	S10	213	017		017	5	22												

MESSAGE TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P μg - σt/l	TOTAL-P μg - σt/l	NO ₂ -N μg - σt/l	NO ₃ -N μg - σt/l	Si D ₄ -Si μg - σt/l	pH	3 C
		STD	0000	0140	3279	2627	0017605	0000	14526								
070		OBS	0000	0140	32792	2627			14526								
		STD	0010	0010	3271	2628	0017511	0017	14467								
		OBS	0010	0010	32712	2628			14467								
		STD	0020	-0060	3295	2650	0015368	0034	14440								
001		OBS	0020	-0060	32954	2650			14440								
		OBS	0025	-0092	32970	2653			14426								
		STD	0030	-0057	3324	2673	0013193	0048	14447								
		OBS	0030	-0057	33240	2673			14447								
		OBS	0040	-0027	33240	2672			14463								
		STD	0050	-0046	3329	2677	0012861	0074	14456								
		OBS	0050	-0046	33288	2677			14456								
		STD	0075	-0010	3352	2694	0011233	0104	14480								
		OBS	0075	-0010	33520	2694			14480								
		STD	0100	0034	3366	2703	0010382	0131	14506								
		OBS	0100	0034	33660	2703			14506								
		OBS	0110	0035	33820	2716			14511								
		STD	0125	0099	3395	2722	0008562	0155	14544								
		OBS	0125	0099	33950	2722			14544								
		STD	0150	0118	3405	2729	0007932	0175	14558								
		OBS	0150	0118	34049	2729			14558								
		OBS	0170	0120	34120	2735			14563								
		STD	0200	0187	3428	2743	0006700	0212	14600								
		OBS	0200	0187	34280	2743			14600								
		STD	0250	0241	3440	2748	0006259	0244	14633								
		OBS	0282	0319	34600	2757			14675								
		STD	0300	0378	3475	2764	0004917	0272	14705								
		OBS	0300	0378	34755	2764			14705								
		OBS	0312	0407	34795	2764			14720								
		STD	0400	0440	3490	2768	0004610	0320	14750								
		OBS	0400	0440	34899	2768			14750								
		STD	0500	0430	3491	2770	0004523	0366	14762								
		OBS	0500	0430	34910	2770			14762								
		STD	0600	0420	3492	2772	0004432	0410	14775								
		OBS	0600	0420	34920	2772			14775								
		STD	0700	0405	3492	2774	0004354	0454	14785								
		OBS	0700	0405	34920	2774			14785								
		STD	0800	0394	3492	2775	0004329	0498	14797								
		OBS	0800	0394	34919	2775			14797								

REFERENCE CRUY CODE	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		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318039	EV	4501 N	04853 W	149	58	05	13	110	1968	002	10173	0878	1	32	0	3			X4	0	3	0134
					WATER			WIND			BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB		WET BULB										
					DT	SD	30	502		017		017	2	26								

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - σt/l	TOTAL-P μg - σt/l	NO ₃ -N μg - σt/l	NO ₃ -N μg - σt/l	SIO ₄ -Si μg - σt/l	pH	S C
110		STD	0000	0132	3276	2625	0017786	0000	14522								
		OBS	0000	0132	32762	2625			14522								
		STD	0010	0077	3276	2628	0017458	0017	14499								
		STD	0020	0013	3276	2632	0017128	0034	14471								
001		OBS	0025	-0022	32765	2634			14456								
		STD	0030	-0068	3280	2638	0016538	0051	14436								
		OBS	0035	-0099	32850	2643			14423								
		STD	0050	-0099	3313	2666	0013838	0082	14429								
		OBS	0050	-0099	33135	2666			14429								
		OBS	0059	-0039	33290	2677			14461								
		OBS	0070	-0039	33310	2678			14463								
		STD	0075	-0030	3332	2679	0012674	0115	14468								
		OBS	0075	-0030	33320	2679			14468								
		OBS	0093	-0014	33475	2690			14481								
		OBS	0098	0023	33540	2694			14499								
		STD	0100	0031	3356	2695	0011130	0145	14504								
		OBS	0100	0031	33560	2695			14504								
		OBS	0118	0013	33980	2730			14504								
		STD	0125	0041	3399	2729	0007893	0168	14518								
		STD	0150	0125	3408	2731	0007737	0188	14561								
		OBS	0150	0125	34082	2731			14561								
		OBS	0170	0172	34205	2738			14587								
		STD	0200	0184	3425	2741	0006905	0224	14598								
		OBS	0200	0184	34250	2741			14598								
		OBS	0231	0215	34321	2744			14618								
		STD	0250	0267	3443	2748	0006285	0257	14645								
		OBS	0265	0308	34600	2758			14668								
		OBS	0269	0351	34660	2759			14688								
		OBS	0285	0360	34680	2759			14694								
		STD	0300	0404	3483	2767	0004658	0285	14717								
		OBS	0300	0404	34827	2767			14717								
		OBS	0330	0424	34860	2767			14731								
		STD	0400	0428	3486	2767	0004778	0332	14744								
		OBS	0400	0428	34859	2767			14744								
		STD	0500	0438	3490	2769	0004667	0379	14766								
		OBS	0500	0438	34902	2769			14766								
		STD	0600	0429	3491	2771	0004606	0426	14779								
		OBS	0600	0429	34911	2771			14779								
		STD	0700	0408	3489	2771	0004617	0472	14786								
		OBS	0700	0408	34890	2771			14786								
		OBS	0772	0402	34905	2773			14796								
		STD	0800	0398	3492	2774	0004382	0517	14799								
		OBS	0800	0398	34918	2774			14799								

REFERENCE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DATE MO DAY	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
							CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	48340N	046090W	149 86 05 14	139	1968	002	10174	1189	1	04	2	2		X6	0	3	0135
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WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	OS	S24	058	039	033	6	23	

MESSAGE TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \rho$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0131	3313	2655	0014988	0000	14526								
139		OBS	0000	0131	33129	2655			14526								
		OBS	0008	0109	33114	2655			14518								
		STD	0010	0109	3316	2659	0014590	0014	14519								
002		OBS	0010	0109	33164	2659			14519								
		STD	0020	0110	3379	2709	0009817	0027	14529								
		OBS	0020	0110	33792	2709			14529								
		OBS	0025	0111	33915	2719			14532								
		STD	0030	0115	3404	2728	0007994	0035	14537								
		OBS	0030	0115	34036	2728			14537								
		STD	0050	0147	3422	2741	0006782	0050	14557								
		OBS	0050	0147	34224	2741			14557								
		OBS	0072	0193	34510	2761			14585								
		STD	0075	0219	3456	2763	0004765	0065	14597								
		OBS	0075	0219	34562	2763			14597								
		STD	0100	0298	3464	2763	0004816	0077	14637								
		OBS	0100	0298	34645	2763			14637								
		OBS	0110	0298	34645	2763			14639								
		STD	0125	0328	3468	2763	0004816	0089	14654								
		OBS	0125	0328	34684	2763			14654								
		STD	0150	0365	3476	2766	0004589	0100	14675								
		OBS	0150	0365	34764	2766			14675								
		STD	0200	0379	3482	2769	0004324	0123	14690								
		OBS	0200	0379	34824	2769			14690								
		OBS	0231	0382	34819	2768			14697								
		STD	0250	0395	3485	2769	0004344	0144	14706								
		STD	0300	0421	3491	2771	0004222	0166	14726								
		OBS	0300	0421	34909	2771			14726								
		STD	0400	0431	3493	2772	0004288	0208	14747								
		OBS	0400	0431	34929	2772			14747								
		STD	0500	0412	3492	2773	0004251	0251	14755								
		OBS	0500	0412	34919	2773			14755								
		STD	0600	0397	3491	2774	0004211	0293	14765								
		OBS	0600	0397	34914	2774			14765								
		STD	0700	0387	3491	2775	0004198	0335	14778								
		OBS	0700	0387	34914	2775			14778								
		STD	0800	0380	3491	2776	0004204	0377	14791								
		OBS	0800	0380	34914	2776			14791								
		STD	0900	0378	3492	2776	0004244	0420	14807								
		OBS	0900	0378	34917	2776			14807								
		STD	1000	0373	3492	2778	0004222	0462	14822								
		OBS	1000	0373	34924	2778			14822								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIRECTION	MARSDEN 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.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TPTL		AMT
318039		EV	48190N	046095W		149	86	05	14	158	1968	002	10175	1244	1	03	3	3		X6	0	3		0136
		WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB		DT	SD																
DT	SD	05	S27	017	050		050	6				24												
MESSENGER TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S °C							
		STD	0000	0160	3330	2666	0013857	0000	14542															
158		OBS	0000	0160	33302	2666			14542															
		STD	0010	0160	3330	2667	0013850	0013	14543															
		OBS	0010	0160	33303	2667			14543															
002		OBS	0019	0160	33304	2667			14545															
		STD	0020	0151	3330	2667	0013806	0027	14541															
		OBS	0020	0151	33302	2667			14541															
		OBS	0025	0141	33324	2669			14538															
		STD	0030	0131	3336	2673	0013245	0041	14534															
		OBS	0030	0131	33359	2673			14534															
		OBS	0040	0066	33444	2684			14508															
		STD	0050	0066	3385	2716	0009128	0063	14515															
		OBS	0050	0066	33849	2716			14515															
		STD	0075	0153	3422	2741	0006844	0083	14564															
		OBS	0075	0153	34222	2741			14564															
		STD	0100	0201	3439	2751	0005918	0099	14591															
		OBS	0100	0201	34392	2751			14591															
		STD	0125	0292	3464	2763	0004787	0112	14638															
		OBS	0125	0292	34644	2763			14638															
		STD	0150	0339	3470	2763	0004786	0124	14663															
		OBS	0150	0339	34704	2763			14663															
		OBS	0164	0339	34714	2764			14666															
		OBS	0170	0381	34804	2767			14686															
		OBS	0188	0386	34809	2767			14691															
		STD	0200	0411	3484	2767	0004529	0148	14704															
		OBS	0200	0411	34841	2767			14704															
		STD	0250	0445	3490	2768	0004482	0170	14727															
		OBS	0250	0445	34902	2768			14727															
		STD	0300	0460	3492	2768	0004547	0193	14742															
		OBS	0300	0460	34924	2768			14742															
		STD	0400	0456	3493	2769	0004554	0238	14757															
		OBS	0400	0456	34931	2769			14757															
		STD	0500	0437	3492	2771	0004505	0284	14765															
		OBS	0500	0437	34923	2771			14765															
		STD	0600	0416	3491	2772	0004444	0328	14773															
		OBS	0600	0416	34912	2772			14773															
		STD	0700	0402	3491	2773	0004393	0373	14784															
		OBS	0700	0402	34910	2773			14784															
		STD	0800	0391	3491	2774	0004377	0416	14796															
		OBS	0800	0391	34908	2774			14796															
		STD	0900	0384	3491	2775	0004364	0460	14810															
		OBS	0900	0384	34911	2775			14810															

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDETH	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		47585N	046095W		149	76	05	14	180	1968	002	10176		0969	1	06	5	4		X6	03		0137
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
						DT	SD	05	533	942	044	044	6	26										
MESSENGER TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C							
180		STD	0000	0183	3322	2659	0014608	0000	14551															
		OBS	0000	0183	33224	2659			14551															
		STD	0010	0123	3321	2662	0014292	0014	14526															
003		OBS	0010	0123	33214	2662			14526															
		STD	0020	0081	3335	2675	0013015	0028	14510															
		OBS	0020	0081	33349	2675			14510															
		OBS	0025	0040	33324	2676			14492															
		STD	0030	0032	3347	2688	0011799	0040	14491															
		OBS	0030	0032	33474	2688			14491															
		OBS	0035	-0009	33469	2690			14473															
		OBS	0039	0011	33564	2696			14484															
		OBS	0048	0009	33764	2713			14488															
		STD	0050	0038	3393	2725	0008320	0060	14504															
		OBS	0050	0038	33934	2725			14504															
		STD	0075	0259	3452	2756	0005422	0077	14614															
		OBS	0075	0259	34518	2756			14614															
		OBS	0076	0319	34584	2756			14641															
		OBS	0086	0354	34625	2756			14658															
		STD	0100	0359	3462	2755	0005544	0091	14663															
		OBS	0100	0359	34624	2755			14663															
		OBS	0103	0400	34680	2755			14681															
		STD	0125	0418	3474	2759	0005250	0105	14693															
		OBS	0125	0418	34744	2759			14693															
		STD	0150	0431	3482	2763	0004874	0117	14704															
		OBS	0150	0431	34816	2763			14704															
		STD	0200	0447	3486	2765	0004781	0141	14719															
		OBS	0200	0447	34859	2765			14719															
		STD	0250	0445	3489	2768	0004545	0165	14727															
		OBS	0250	0445	34894	2768			14727															
		STD	0300	0446	3489	2767	0004617	0188	14736															
		OBS	0300	0446	34893	2767			14736															
		STD	0400	0428	3489	2769	0004527	0233	14745															
		OBS	0400	0428	34892	2769			14745															
		STD	0500	0426	3491	2771	0004456	0278	14761															
		OBS	0500	0426	34913	2771			14761															
		STD	0600	0410	3491	2772	0004417	0323	14771															
		OBS	0600	0410	34906	2772			14771															
		OBS	0629	0397	34890	2772			14770															
		STD	0700	0391	3489	2773	0004401	0367	14779															
		OBS	0700	0391	34892	2773			14779															
		STD	0800	0389	3489	2773	0004462	0411	14795															
		OBS	0800	0389	34893	2773			14795															
		OBS	0850	0386	34894	2774			14802															

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	SHIFT HOURS	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318039	EV		47400N	046120W		149	76	05	17	118	1968	002	10177		1079	1	20	4	3		X4	0	3		0138
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB													
						DT	SD	19	S20	105		039		039		6		23							
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 - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	S C				
		STD	0000	0136	3328	2667		0013848		0000		14531													
118		OBS	0000	0136	33283	2667						14531													
		STD	0010	0135	3328	2667		0013822		0013		14532													
		OBS	0010	0135	33285	2667						14532													
		STD	0020	0118	3328	2667		0013768		0027		14526													
002		OBS	0020	0118	33279	2667						14526													
		OBS	0025	0104	33285	2669						14520													
		STD	0030	0082	3333	2674		0013133		0041		14512													
		OBS	0030	0082	33334	2674						14512													
		OBS	0045	0064	33569	2694						14510													
		STD	0050	0094	3385	2715		0009249		0063		14528													
		OBS	0050	0094	33854	2715						14528													
		STD	0075	0169	3421	2739		0007037		0083		14571													
		OBS	0075	0169	34212	2739						14571													
		STD	0100	0230	3437	2746		0006322		0100		14604													
		OBS	0100	0230	34369	2746						14604													
		STD	0125	0271	3452	2755		0005573		0115		14628													
		OBS	0125	0271	34516	2755						14628													
		STD	0150	0328	3462	2758		0005304		0129		14658													
		OBS	0150	0328	34622	2758						14658													
		OBS	0165	0345	34654	2759						14668													
		OBS	0181	0338	34644	2759						14667													
		STD	0200	0361	3471	2762		0004981		0154		14681													
		OBS	0200	0361	34712	2762						14681													
		STD	0250	0428	3485	2766		0004661		0178		14720													
		OBS	0250	0428	34854	2766						14720													
		STD	0300	0456	3490	2767		0004652		0202		14740													
		OBS	0300	0456	34904	2767						14740													
		STD	0400	0447	3491	2769		0004599		0248		14753													
		OBS	0400	0447	34911	2769						14753													
		STD	0500	0433	3491	2770		0004518		0293		14764													
		OBS	0500	0433	34915	2770						14764													
		STD	0600	0418	3491	2772		0004483		0338		14774													
		OBS	0600	0418	34910	2772						14774													
		STD	0700	0396	3490	2773		0004383		0383		14781													
		OBS	0700	0396	34902	2773						14781													
		STD	0800	0385	3490	2774		0004356		0426		14793													
		OBS	0800	0385	34901	2774						14793													
		STD	0900	0378	3490	2775		0004360		0470		14807													
		OBS	0900	0378	34902	2775						14807													
		STD	1000	0371	3491	2777		0004297		0513		14821													
		OBS	1000	0371	34911	2777						14821													

REFERENCE		SHIP		LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT MOCH	W/RSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CITY CODE	IO. NO.	SHIP CODE					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318039	EV		47220N	046130W		14y	76	05	17	141	1968	002	10178		0494	1	20	3	3		X4	0	3	0139			
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
							OT	SD	21	517	095	044	039	7	26												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	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 ₃ -N μg - at/l	NO ₂ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C										
		STO	0000	0104	3325	2666	0013930	0000	14516																		
141		OBS	0000	0104	33247	2666			14516																		
		STO	0010	0102	3331	2671	0013441	0013	14517																		
		OBS	0010	0102	33309	2671			14517																		
		STO	0020	0104	3337	2675	0013017	0026	14521																		
001		OBS	0020	0104	33366	2675			14521																		
		OBS	0025	0104	33368	2675			14522																		
		STO	0030	0104	3337	2676	0012972	0039	14523																		
		OBS	0030	0104	33372	2676			14523																		
		OBS	0035	0104	33385	2677			14524																		
		OBS	0048	0037	33683	2705			14499																		
		STO	0050	0070	3375	2708	0009932	0062	14516																		
		OBS	0050	0070	33746	2708			14516																		
		OBS	0073	0416	34457	2736			14680																		
		STO	0075	0409	3445	2736	0007291	0084	14677																		
		OBS	0075	0409	34454	2736			14677																		
		OBS	0082	0171	34234	2740			14573																		
		STO	0100	0210	3430	2743	0006668	0101	14594																		
		OBS	0100	0210	34303	2743			14594																		
		STO	0125	0266	3445	2750	0006031	0117	14624																		
		OBS	0125	0266	34449	2750			14624																		
		STO	0150	0301	3453	2753	0005717	0132	14645																		
		OBS	0150	0301	34534	2753			14645																		
		STO	0200	0356	3466	2758	0005348	0160	14678																		
		OBS	0200	0356	34657	2758			14678																		
		OBS	0226	0365	34677	2759			14687																		
		OBS	0238	0403	34789	2764			14706																		
		STO	0250	0402	3476	2762	0005058	0186	14707																		
		OBS	0250	0402	34764	2762			14707																		
		OBS	0262	0422	34827	2765			14719																		
		OBS	0280	0417	34809	2764			14719																		
		STO	0300	0434	3485	2766	0004779	0210	14730																		
		OBS	0300	0434	34854	2766			14730																		
		OBS	0336	0454	34894	2767			14745																		
		OBS	0380	0455	34900	2767			14753																		
		STO	0400	0438	3488	2768	0004698	0258	14749																		
		OBS	0400	0438	34885	2768			14749																		
		OBS	0430	0428	34912	2770			14754																		
		OBS	0450	0416	34909	2772			14748																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		47000N	046100W	149	76	05	17	161	1968	002	10179	0348	1	21	4	3		X2	0	3		014

318039	EV	47000N	046100W		149	76	05	17	161	1968	002	10179	0348	1	21	4	3		X2	0	3	0140
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WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
DT	SD	20	S17	129	067	056	7	23	

DT	SD	20	S17	129	067	056	7	23	
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MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ 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 CC
		STD	0000	0553	3380	2669	0013658	0000	14716								
161		OBS	0000	0553	33801	2669			14716								
		STD	0010	0561	3382	2669	0013625	0013	14721								
		OBS	0010	0561	33819	2669			14721								
		STD	0020	0719	3422	2680	0012577	0026	14791								
001		OBS	0020	0719	34224	2680			14791								
		OBS	0025	0847	34450	2679			14844								
		STD	0030	0855	3444	2677	0012864	0039	14848								
		OBS	0030	0855	34445	2677			14848								
		STD	0050	0860	3451	2682	0012477	0064	14854								
		OBS	0050	0860	34512	2682			14854								
		OBS	0056	0862	34515	2682			14856								
		STD	0075	0939	3478	2691	0011723	0095	14891								
		OBS	0075	0939	34784	2691			14891								
		OBS	0078	0943	34814	2692			14893								
		OBS	0088	0914	34822	2698			14884								
		STD	0100	0799	3465	2702	0010626	0123	14841								
		OBS	0100	0799	34654	2702			14841								
		OBS	0101	0791	34634	2702			14838								
		OBS	0109	0807	34709	2706			14846								
		OBS	0112	0780	34663	2706			14836								
		STD	0125	0786	3469	2707	0010180	0149	14840								
		OBS	0125	0786	34694	2707			14840								
		OBS	0138	0798	34783	2713			14848								
		OBS	0145	0825	34874	2716			14861								
		STD	0150	0741	3473	2717	0009352	0173	14828								
		OBS	0150	0741	34726	2717			14828								
		OBS	0152	0786	34784	2715			14846								
		STD	0200	0690	3482	2731	0008026	0216	14817								
		OBS	0200	0690	34822	2731			14817								
		STD	0250	0580	3481	2745	0006729	0253	14781								
		OBS	0250	0580	34814	2745			14781								
		OBS	0270	0525	34804	2751			14762								
		STD	0300	0514	3483	2755	0005852	0285	14763								
		OBS	0300	0514	34832	2755			14763								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	47:35N	046350W		149	76	05	17	176	1968	002	1018U	0421	1	21	4	3		X2	0	3	0141
						WATER		WIND		SARD- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	20	S14	125	067	056	6	23									
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 $\mu g - \sigma t/l$	TOTAL-P $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	NO ₃ -N $\mu g - \sigma t/l$	Si D ₄ -Si $\mu g - \sigma t/l$	pH	S TCC						
176		STD	0000	0483	3360	2661	0014382	0000	14684														
		OBS	0000	0483	33602	2661			14684														
001		STD	0010	0483	3360	2661	0014392	0014	14686														
		OBS	0010	0483	33602	2661			14686														
		STD	0020	0483	3361	2661	0014366	0028	14688														
		OBS	0020	0483	33606	2661			14688														
		OBS	0025	0483	33605	2661			14689														
		STD	0030	0483	3361	2661	0014367	0043	14689														
		OBS	0030	0483	33608	2661			14689														
		STD	0050	0493	3365	2664	0014180	0071	14697														
		OBS	0050	0493	33650	2664			14697														
		OBS	0056	0605	34008	2678			14749														
		OBS	0065	0333	33834	2695			14635														
		STD	0075	0383	3400	2703	0010445	0102	14660														
		OBS	0075	0383	34000	2703			14660														
		OBS	0082	0328	33910	2701			14637														
		OBS	0093	0416	34173	2713			14679														
		STD	0100	0415	3419	2715	0009373	0127	14680														
		OBS	0100	0415	34188	2715			14680														
		STD	0125	0442	3436	2726	0008358	0149	14698														
		OBS	0125	0442	34363	2726			14698														
		OBS	0140	0555	34633	2734			14751														
		STD	0150	0473	3452	2735	0007520	0169	14717														
		OBS	0150	0473	34523	2735			14717														
		OBS	0160	0567	34763	2743			14761														
		OBS	0181	0477	34741	2752			14727														
		STD	0200	0515	3479	2751	0006055	0403	14746														
		OBS	0200	0515	34790	2751			14746														
		OBS	0217	0509	34782	2751			14747														
		OBS	0237	0478	34763	2753			14737														
		STD	0250	0499	3485	2758	0005459	0432	14749														
		OBS	0250	0499	34854	2758			14749														
		OBS	0280	0500	34868	2759			14754														
		STD	0300	0478	3491	2765	0004883	0257	14749														
		OBS	0300	0478	34906	2765			14749														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUFF INDIC	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	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		47050N	046490W		149	76	05	17	189	1968	002	10181		1207	1	20	4	3		X2	0	3		0142
		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																
		DT	SD	20	S12	125		022	022	6	27														
MESSENGR 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		D 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 CC				
		STO	0000	0070	3318	2663		0014219		0000		14500													
189		OBS	0000	0070	33183	2663						14500													
		STO	0010	0070	3318	2663		0014209		0014		14501													
		OBS	0010	0070	33184	2663						14501													
		STO	0020	0069	3319	2663		0014172		0028		14503													
002		OBS	0020	0069	33188	2663						14503													
		OBS	0025	0069	33193	2663						14503													
		STO	0030	0069	3320	2664		0014063		0042		14504													
		OBS	0030	0069	33203	2664						14504													
		STO	0050	0069	3324	2667		0013772		0070		14508													
		OBS	0050	0069	33241	2667						14508													
		OBS	0065	0049	33483	2688						14505													
		STO	0075	0080	3397	2725		0008264		0097		14527													
		OBS	0075	0080	33973	2725						14527													
		OBS	0083	0137	34098	2732						14556													
		STO	0100	0145	3413	2734		0007508		0117		14563													
		OBS	0100	0145	34128	2734						14563													
		OBS	0116	0137	34143	2735						14562													
		STO	0125	0177	3430	2745		0006425		0135		14584													
		OBS	0125	0177	34303	2745						14584													
		STO	0150	0272	3448	2752		0005859		0150		14632													
		OBS	0150	0272	34481	2752						14632													
		STO	0200	0326	3460	2757		0005449		0178		14665													
		OBS	0200	0326	34605	2757						14665													
		OBS	0219	0399	34711	2758						14700													
		OBS	0227	0363	34703	2761						14686													
		STO	0250	0453	3481	2760		0005233		0205		14729													
		OBS	0250	0453	34814	2760						14729													
		OBS	0279	0413	34763	2761						14717													
		STO	0300	0493	3494	2766		0004777		0230		14756													
		OBS	0300	0493	34943	2766						14756													
		STO	0400	0481	3495	2768		0004721		0277		14768													
		OBS	0400	0481	34948	2768						14768													
		STO	0500	0450	3493	2770		0004610		0324		14771													
		OBS	0500	0450	34929	2770						14771													
		STO	0600	0430	3492	2772		0004518		0370		14779													
		OBS	0600	0430	34924	2772						14779													
		STO	0700	0402	3491	2774		0004375		0414		14784													
		OBS	0700	0402	34913	2774						14784													
		STO	0800	0383	3489	2774		0004424		0458		14792													
		OBS	0800	0383	34889	2774						14792													
		STO	0900	0380	3490	2775		0004373		0502		14808													
		OBS	0900	0380	34903	2775						14808													
		STO	1000	0374	3490	2776		0004384		0546		14822													
		OBS	1000	0374	34904	2776						14822													
		STO	1100	0370	3490	2776		0004424		0590		14837													
		OBS	1100	0370	34904	2776						14837													

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	LATITUDE ° ' /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	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT			
318039		EV	47050N	047030W	149	77	05	17	202	1968	002	10182	1189	1	20	4	3		X2	0	3		0143			
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB				VIS. CODE									
						DT	SD	20	S12	132	028	028	7	22												
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	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	0073	3316	2661	0014391		0000	14501																
202		OBS	0000	0073	33163	2661				14501																
		STD	0010	0069	3317	2661	0014327		0014	14501																
		OBS	0010	0069	33168	2661				14501																
		STD	0020	0068	3317	2662	0014281		0028	14502																
002		OBS	0020	0068	33173	2662				14502																
		OBS	0025	0066	33183	2663				14502																
		STD	0030	0061	3319	2663	0014143		0042	14501																
		OBS	0030	0061	33186	2663				14501																
		STD	0050	0061	3320	2665	0014033		0071	14504																
		OBS	0050	0061	33201	2665				14504																
		OBS	0065	0028	33453	2687				14495																
		STD	0075	0078	3397	2726	0008255		0098	14527																
		OBS	0075	0078	33973	2726				14527																
		STD	0100	0193	3426	2741	0006835		0117	14586																
		OBS	0100	0193	34263	2741				14586																
		STD	0125	0234	3442	2750	0005957		0133	14610																
		OBS	0125	0234	34423	2750				14610																
		STD	0150	0273	3450	2753	0005715		0148	14632																
		OBS	0150	0273	34501	2753				14632																
		STD	0200	0344	3465	2759	0005260		0175	14673																
		OBS	0200	0344	34653	2759				14673																
		STD	0250	0420	3479	2762	0005042		0201	14715																
		OBS	0250	0420	34791	2762				14715																
		STD	0300	0441	3486	2765	0004820		0226	14733																
		OBS	0300	0441	34858	2765				14733																
		STD	0400	0455	3491	2768	0004660		0273	14756																
		OBS	0400	0455	34915	2768				14756																
		STD	0500	0451	3492	2769	0004665		0320	14771																
		OBS	0500	0451	34923	2769				14771																
		STD	0600	0438	3492	2770	0004637		0366	14782																
		OBS	0600	0438	34921	2770				14782																
		STD	0700	0416	3492	2773	0004444		0412	14790																
		OBS	0700	0416	34925	2773				14790																
		STD	0800	0397	3491	2774	0004442		0456	14798																
		OBS	0800	0397	34908	2774				14798																
		STD	0900	0387	3491	2775	0004406		0500	14811																
		OBS	0900	0387	34910	2775				14811																
		STD	1000	0378	3492	2777	0004323		0544	14824																
		OBS	1000	0378	34918	2777				14824																
		OBS	1080	0371	34926	2778				14834																

REFERENCE		SNIP CODE	LATITUDE ° ' / 10	LONGITUDE ° ' / 10	DEPT INCH	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
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		47050N	047180W		149	77	05	17	215	1968	002	10183	0640	1	21	4	3		X2	0	3	0144
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbars)		DRY BULB	WET BULB										
						DT	SD	20	S12	129		028	028	7	24								

MESSENGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	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
		STD	0000	0050	3272	2627	0017623	0000	14484								
215		OBS	0000	0050	32723	2627			14484								
		STD	0010	0047	3273	2627	0017566	0017	14485								
		OBS	0010	0047	32728	2627			14485								
		STD	0020	0042	3273	2628	0017500	0035	14484								
001		OBS	0020	0042	32733	2628			14484								
		OBS	0025	0042	32734	2628			14485								
		STD	0030	0041	3273	2628	0017480	0052	14485								
		OBS	0030	0041	32735	2628			14485								
		OBS	0040	0040	32735	2628			14486								
		STD	0050	0008	3272	2628	0017443	0087	14473								
		OBS	0050	0008	32718	2628			14473								
		OBS	0059	-0077	32810	2639			14437								
		OBS	0071	-0077	33273	2677			14445								
		STD	0075	-0037	3332	2679	0012627	0125	14465								
		OBS	0075	-0037	33322	2679			14465								
		STD	0100	0068	3376	2709	0009805	0153	14523								
		OBS	0100	0068	33761	2709			14523								
		STD	0125	0069	3385	2716	0009111	0176	14529								
		OBS	0125	0069	33853	2716			14529								
		STD	0150	0105	3403	2728	0007999	0198	14552								
		OBS	0150	0105	34030	2728			14552								
		OBS	0172	0207	34296	2742			14604								
		STD	0200	0207	3431	2744	0006593	0234	14609								
		OBS	0200	0207	34315	2744			14609								
		STD	0250	0305	3455	2755	0005672	0265	14663								
		OBS	0250	0305	34554	2755			14663								
		STD	0300	0387	3473	2761	0005185	0292	14709								
		OBS	0300	0387	34732	2761			14709								
		OBS	0331	0398	34796	2765			14719								
		OBS	0348	0442	34900	2768			14742								
		OBS	0361	0419	34854	2767			14734								
		STD	0400	0418	3487	2768	0004607	0341	14740								
		OBS	0400	0418	34867	2768			14740								
		OBS	0482	0417	34901	2771			14754								
		STD	0500	0407	3490	2772	0004317	0386	14753								
		OBS	0500	0407	34903	2772			14753								
		OBS	0580	0398	34905	2773			14762								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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
318039	EV		47050N	047330W		149	77	05	17	227	1968	002	10184	0247	1	21	4	3		X2	0 3		0145
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
		DT	SD	20	512	125	028	028	7	17													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \rho$ 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	CTC						
		STD	0000	0057	3272	2626	0017668	0000	14487														
	227	OBS	0000	0057	32722	2626			14487														
		STD	0010	0056	3272	2626	0017657	0017	14489														
		OBS	0010	0056	32722	2626			14489														
		STD	0020	0048	3270	2625	0017745	0035	14486														
	001	OBS	0020	0048	32705	2625			14486														
		OBS	0025	0047	32703	2625			14487														
		STD	0030	0043	3271	2626	0017697	0053	14486														
		OBS	0030	0043	32708	2626			14486														
		OBS	0040	0043	32711	2626			14487														
		STD	0050	-0098	3270	2632	0017129	0087	14424														
		OBS	0050	-0098	32705	2632			14424														
		OBS	0062	-0141	32923	2650			14409														
		STD	0075	-0127	3312	2666	0013845	0126	14420														
		OBS	0075	-0127	33120	2666			14420														
		OBS	0090	-0112	33163	2669			14430														
		OBS	0095	-0069	33263	2676			14453														
		STD	0100	-0094	3326	2677	0012845	0160	14442														
		OBS	0100	-0094	33263	2677			14442														
		STD	0125	-0018	3361	2701	0010532	0189	14486														
		OBS	0125	-0018	33606	2701			14486														
		STD	0150	0077	3385	2716	0009195	0213	14537														
		OBS	0150	0077	33848	2716			14537														
		OBS	0182	0177	34214	2738			14592														
		STD	0200	0304	3454	2753	0005762	0451	14654														
		OBS	0200	0304	34536	2753			14654														
		OBS	0210	0317	34558	2754			14662														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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	
318039	EV		47050N	047470W		149	77	05	17	238	1968	002	10185	0192	1	21	1	2		X2	0 3		0146
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						DT	SD	20	512	129	028	028	7	15									
MESSAGE TIME HR 1/10	CARD 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	CTC		
		STD	0000	0077	3274	2627		0017632	0000	14497													
	238	OBS	0000	0077	32740	2627				14497													
		STD	0010	0067	3273	2627		0017630	0017	14494													
		OBS	0010	0067	32733	2627				14494													
		STD	0020	0059	3274	2628		0017519	0035	14492													
	001	OBS	0020	0059	32742	2628				14492													
		OBS	0025	0057	32742	2628				14492													
		STD	0030	0055	3274	2628		0017499	0052	14492													
		OBS	0030	0055	32742	2628				14492													
		OBS	0042	0051	32742	2628				14492													
		STD	0050	-0096	3278	2638		0016551	0086	14426													
		OBS	0050	-0096	32782	2638				14426													
		OBS	0060	-0139	33002	2657				14410													
		STD	0075	-0133	3310	2665		0013970	0124	14417													
		OBS	0075	-0133	33102	2665				14417													
		STD	0100	-0103	3335	2684		0012129	0157	14439													
		OBS	0100	-0103	33352	2684				14439													
		OBS	0112	-0023	33482	2691				14480													
		STD	0125	0004	3354	2695		0011126	0186	14495													
		OBS	0125	0004	33542	2695				14495													
		STD	0150	0061	3380	2713		0009450	0212	14529													
		OBS	0150	0061	33802	2713				14529													
		OBS	0165	0101	34042	2730				14553													
		OBS	0170	0192	34134	2731				14595													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'APLS	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	
318039	EV		47050N	048020W		149	78	05	18	010	1968	002	10186	0165	1	20	1	2		X2	0	3	0147
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						DT	SD	20	S12	129		028	028	7	12								
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 - 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 CODE					
		STD	0000	0063	3274	2627	0017559		0000	14490													
	010	OBS	0000	0063	32740	2627				14490													
		STD	0010	0056	3273	2627	0017584		0017	14489													
		OBS	0010	0056	32732	2627				14489													
		STD	0020	0047	3274	2628	0017501		0035	14486													
	001	OBS	0020	0047	32737	2628				14486													
		OBS	0025	0043	32741	2629				14485													
		STD	0030	0042	3274	2629	0017435		0052	14486													
		OBS	0030	0042	32742	2629				14486													
		STD	0050	0036	3274	2629	0017375		0087	14486													
		OBS	0050	0036	32745	2629				14486													
		OBS	0058	-0122	32772	2638				14415													
		STD	0075	-0136	3306	2662	0014267		0126	14415													
		OBS	0075	-0136	33062	2662				14415													
		STD	0100	-0043	3339	2685	0012056		0159	14467													
		OBS	0100	-0043	33392	2685				14467													
		STD	0125	0041	3362	2700	0010697		0188	14513													
		OBS	0125	0041	33624	2700				14513													
		OBS	0130	0067	33732	2707				14527													
		OBS	0145	0076	33744	2707				14534													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'APLS	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	
318039	EV		47050N	048170W		149	78	05	18	021	1968	002	10187	0137	1	20	2	2		X2	03		0148
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						DT	SD	20	S12	129		022	022	7	11								
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 - 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 CODE					
		STD	0000	0117	3273	2623	0017949		0000	14515													
	021	OBS	0000	0117	32729	2623				14515													
		STD	0010	0097	3273	2625	0017821		0017	14507													
		OBS	0010	0097	32730	2625				14507													
		STD	0020	0093	3273	2625	0017793		0035	14507													
	001	OBS	0020	0093	32731	2625				14507													
		OBS	0025	0090	32732	2625				14507													
		STD	0030	0090	3273	2625	0017755		0053	14507													
		OBS	0030	0090	32733	2625				14507													
		OBS	0037	0077	32735	2626				14503													
		OBS	0046	-0092	32882	2646				14428													
		STD	0050	-0090	3308	2662	0014273		0085	14433													
		OBS	0050	-0090	33082	2662				14433													
		STD	0075	-0007	3324	2671	0013419		0120	14478													
		OBS	0075	-0007	33236	2671				14478													
		STD	0100	0015	3334	2678	0012705		0152	14493													
		OBS	0100	0015	33342	2678				14493													
		OBS	0120	0031	33499	2690				14506													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUBL INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318039		EV	44390N	049160W		149	49	05	18	176	1968	002	10188	0062	1	18	3	4		X2	0	3		0149		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	DRY BULB	WET BULB															
						DT	SD	32	S05	034	044	039	7													
MESSNGR TIME HR 1/10		CAST OF NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND MALT-R107		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					
176			STD	0000	0238	3270	2613		0018972		0000		14568													
			OBS	0000	0238	32700	2613						14568													
			STD	0010	0206	3269	2614		0018793		0018		14555													
			OBS	0010	0206	32694	2614						14555													
001			STD	0020	0203	3273	2618		0018487		0037		14556													
			OBS	0020	0203	32731	2618						14556													
			OBS	0025	0198	32735	2618						14555													
			STD	0030	0197	3273	2618		0018452		0056		14555													
			OBS	0030	0197	32730	2618						14555													
			STD	0050	0191	3272	2618		0018482		0092		14556													
			OBS	0050	0191	32722	2618						14556													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUBL INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		44370N	049050W		149	49	05	18	186	1968	002	10189	0805	1	18	2	4		X2	0	3	0150
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
		DT	SD	35	S08	034	044	044	7														19
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-R107	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	Σ C						
186		STD	0000	0167	3276	2623	0018021	0000	14537														
		OBS	0000	0167	32760	2623			14537														
		STD	0010	0165	3276	2622	0018031	0018	14538														
		OBS	0010	0165	32757	2622			14538														
002		STD	0020	0156	3276	2623	0017950	0036	14536														
		OBS	0020	0156	32760	2623			14536														
		OBS	0025	0147	32754	2623			14532														
		STD	0030	0143	3276	2624	0017877	0053	14532														
		OBS	0030	0143	32759	2624			14532														
		STD	0050	0106	3280	2630	0017321	0089	14519														
		OBS	0050	0106	32802	2630			14519														
		STD	0075	0060	3297	2646	0015783	0130	14504														
		OBS	0075	0060	32969	2646			14504														
		OBS	0086	0018	33092	2658			14489														
		STD	0100	0049	3369	2705	0010224	0163	14514														
		OBS	0100	0049	33692	2705			14514														
		STD	0125	0146	3405	2727	0008100	0185	14566														
		OBS	0125	0146	34052	2727			14566														
		STD	0150	0235	3429	2740	0006979	0204	14613														
		OBS	0150	0235	34291	2740			14613														
		OBS	0172	0363	34682	2759			14677														
		STD	0200	0386	3476	2763	0004868	0234	14692														
		OBS	0200	0386	34761	2763			14692														
		STD	0250	0415	3486	2768	0004464	0257	14714														
	OBS	0250	0415	34862	2768			14714															
	STD	0300	0415	3488	2770	0004370	0279	14723															
	OBS	0300	0415	34881	2770			14723															
	STD	0400	0406	3488	2771	0004344	0323	14735															
	OBS	0400	0406	34884	2771			14735															
	STD	0500	0398	3489	2772	0004288	0366	14749															
	OBS	0500	0398	34893	2772			14749															
	STD	0600	0394	3489	2773	0004322	0409	14764															
	OBS	0600	0394	34895	2773			14764															
	OBS	0610	0393	34897	2773			14765															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	H/RSDEN 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		TYPE	AMT		
318039		EV	44340N	048400W		149	48	05	18	198	1968	002	10190		2103	1	22	2	3	X2	0 3	0151
WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
DT	SD	24	S10	041	039	039	7	27														
MESSENGER TIME HR 1/10	CAST OF ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD 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 $\mu\text{g} - \text{ol/l}$	Si O ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	3 C					
198		STD	0000	0186	3269	2616	0018664	0000	14545													
		OBS	0000	0186	32692	2616			14545													
002		STD	0010	0079	3261	2616	0018599	0018	14497													
		OBS	0010	0079	32614	2616			14497													
		STD	0020	0058	3280	2632	0017094	0036	14492													
		OBS	0020	0058	32797	2632			14492													
		OBS	0025	0048	32814	2634			14489													
		STD	0030	0036	3283	2636	0016755	0053	14484													
		OBS	0030	0036	32827	2636			14484													
		OBS	0045	-0056	33082	2661			14448													
		STD	0050	-0036	3326	2674	0013097	0083	14460													
		OBS	0050	-0036	33262	2674			14460													
		STD	0075	-0002	3348	2691	0011551	0114	14483													
		OBS	0075	-0002	33484	2691			14483													
		STD	0100	0015	3358	2697	0010909	0142	14497													
		OBS	0100	0015	33578	2697			14497													
		STD	0125	0051	3376	2710	0009717	0167	14520													
		OBS	0125	0051	33760	2710			14520													
		STD	0150	0089	3392	2721	0008723	0191	14543													
		OBS	0150	0089	33920	2721			14543													
		STD	0200	0225	3433	2744	0006612	0229	14617													
		OBS	0200	0225	34332	2744			14617													
		STD	0250	0351	3467	2759	0005260	0459	14685													
		OBS	0250	0351	34667	2759			14685													
		STD	0300	0400	3477	2763	0005015	0284	14715													
		OBS	0300	0400	34773	2763			14715													
		OBS	0330	0434	34850	2765			14735													
		STD	0400	0446	3489	2767	0004715	0333	14752													
		OBS	0400	0446	34894	2767			14752													
		STD	0500	0432	3490	2770	0004580	0379	14763													
		OBS	0500	0432	34905	2770			14763													
		STD	0600	0418	3490	2771	0004518	0425	14774													
		OBS	0600	0418	34905	2771			14774													
		STD	0700	0407	3490	2772	0004500	0470	14786													
		OBS	0700	0407	34904	2772			14786													
		STD	0800	0394	3491	2774	0004418	0515	14797													
		OBS	0800	0394	34907	2774			14797													
		STD	0900	0384	3491	2775	0004399	0559	14809													
		OBS	0900	0384	34906	2775			14809													
		STD	1000	0377	3491	2776	0004400	0603	14823													
		OBS	1000	0377	34907	2776			14823													
		STD	1100	0375	3491	2776	0004455	0647	14839													
		OBS	1100	0375	34908	2776			14839													
		STD	1200	0373	3491	2776	0004509	0692	14855													
		OBS	1200	0373	34908	2776			14855													
		STD	1300	0371	3491	2777	0004543	0737	14871													
		OBS	1300	0371	34912	2777			14871													
		STD	1400	0371	3492	2777	0004591	0783	14888													
		OBS	1400	0371	34917	2777			14888													
		STD	1500	0369	3492	2778	0004615	0829	14904													
		OBS	1500	0369	34921	2778			14904													

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPE	AMT	

WATER				WIND		BARG- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. (m)	CIR.	SPEED OR FORCE	DRY BULB	WET BULB										
DT	SD	34	S10	044	039	039	7	31							

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	Si O ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C
		STD	0000	0206	3301	2640	0016373	0000	14558								
213		OBS	0000	0206	33012	2640			14558								
		STD	0010	0196	3301	2641	0016303	0016	14555								
		OBS	0010	0196	33012	2641			14555								
		STD	0020	0161	3303	2644	0015959	0032	14542								
003		OBS	0020	0161	33027	2644			14542								
		OBS	0025	0126	33047	2648			14527								
		STD	0030	-0019	3317	2666	0013865	0047	14464								
		OBS	0030	-0019	33172	2666			14464								
		STD	0050	0111	3379	2709	0009829	0071	14535								
		OBS	0050	0111	33792	2709			14535								
		OBS	0070	0246	33967	2713			14600								
		STD	0075	0205	3399	2718	0008966	0094	14583								
		OBS	0075	0205	33992	2718			14583								
		OBS	0082	0171	34060	2726			14570								
		STD	0100	0215	3420	2734	0007508	0115	14595								
		OBS	0100	0215	34197	2734			14595								
		OBS	0110	0261	34352	2742			14619								
		STD	0125	0266	3443	2749	0006148	0132	14624								
		OBS	0125	0266	34434	2749			14624								
		STD	0150	0276	3449	2752	0005806	0147	14634								
		OBS	0150	0276	34492	2752			14634								
		OBS	0182	0318	34615	2758			14659								
		STD	0200	0401	3473	2759	0005280	0174	14698								
		OBS	0200	0401	34727	2759			14698								
		STD	0250	0416	3481	2764	0004860	0200	14714								
		OBS	0250	0416	34810	2764			14714								
		OBS	0260	0420	34828	2765			14717								
		STD	0300	0441	3488	2767	0004685	0224	14733								
		OBS	0300	0441	34877	2767			14733								
		STD	0400	0444	3490	2768	0004632	0270	14752								
		OBS	0400	0444	34902	2768			14752								
		STD	0500	0426	3490	2770	0004510	0316	14761								
		OBS	0500	0426	34905	2770			14761								
		STD	0600	0414	3490	2771	0004495	0361	14772								
		OBS	0600	0414	34902	2771			14772								
		STD	0700	0396	3490	2773	0004383	0405	14781								
		OBS	0700	0396	34902	2773			14781								
		STD	0800	0396	3491	2774	0004387	0449	14798								
		OBS	0800	0396	34914	2774			14798								
		OBS	0860	0396	34918	2775			14808								
		STD	0900	0386	3491	2775	0004404	0493	14810								
		OBS	0900	0386	34909	2775			14810								
		STD	1000	0372	3490	2776	0004370	0537	14821								
		OBS	1000	0372	34902	2776			14821								
		STD	1100	0368	3490	2776	0004392	0581	14836								
		OBS	1100	0368	34904	2776			14836								
		STD	1200	0368	3491	2777	0004441	0625	14853								
		OBS	1200	0368	34909	2777			14853								
		STD	1300	0368	3491	2777	0004489	0670	14870								
		OBS	1300	0368	34914	2777			14870								
		STD	1400	0366	3492	2778	0004513	0715	14886								
		OBS	1400	0366	34919	2778			14886								
		STD	1500	0366	3493	2779	0004525	0760	14903								
		OBS	1500	0366	34928	2779			14903								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEXT	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		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPE	AMT	

318039	EV	44280N	048190W	149	48	05	18	227	1968	002	10192	3292	1	15	0	2		X2	0	3		0153
					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											
					OT	SD	34	S10		051	039											039

MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	ND ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STO	0000	0317	3314	2641	0016301	0000	14608								
228		OBS	0000	0317	33137	2641			14608								
		STO	0010	0275	3314	2645	0015934	0016	14592								
		OBS	0010	0275	33140	2645			14592								
		STO	0020	0272	3314	2645	0015875	0032	14592								
003		OBS	0020	0272	33145	2645			14592								
		OBS	0025	0203	33148	2651			14563								
		STO	0030	0116	3331	2670	0013542	0046	14527								
		OBS	0030	0116	33307	2670			14527								
		STO	0050	0278	3396	2709	0009797	0070	14611								
		OBS	0050	0278	33957	2709			14611								
		OBS	0052	0314	34027	2712			14627								
		STO	0075	0217	3398	2716	0009176	0093	14588								
		OBS	0075	0217	33977	2716			14588								
		STO	0100	0396	3453	2744	0006635	0113	14677								
		OBS	0100	0396	34527	2744			14677								
		STO	0125	0443	3464	2747	0006303	0129	14702								
		OBS	0125	0443	34639	2747			14702								
		STO	0150	0466	3474	2753	0005788	0144	14717								
		OBS	0150	0466	34744	2753			14717								
		OBS	0160	0448	34736	2755			14711								
		STO	0200	0454	3479	2758	0005387	0172	14721								
		OBS	0200	0454	34788	2758			14721								
		OBS	0209	0475	34827	2759			14732								
		STO	0250	0458	3487	2764	0004859	0198	14732								
		OBS	0250	0458	34872	2764			14732								
		STO	0300	0468	3489	2765	0004849	0222	14745								
		OBS	0300	0468	34895	2765			14745								
		STO	0400	0443	3491	2769	0004586	0269	14751								
		OBS	0400	0443	34907	2769			14751								
		STO	0500	0415	3490	2771	0004416	0314	14756								
		OBS	0500	0415	34901	2771			14756								
		STO	0600	0395	3490	2773	0004315	0358	14764								
		OBS	0600	0395	34898	2773			14764								
		STO	0700	0398	3493	2775	0004217	0401	14782								
		OBS	0700	0398	34928	2775			14782								
		STO	0800	0394	3493	2776	0004276	0443	14797								
		OBS	0800	0394	34926	2776			14797								
		STO	0900	0383	3492	2776	0004273	0486	14809								
		OBS	0900	0383	34922	2776			14809								
		STO	1000	0369	3491	2777	0004292	0529	14820								
		OBS	1000	0369	34908	2777			14820								
		STO	1100	0369	3492	2777	0004315	0572	14837								
		OBS	1100	0369	34917	2777			14837								
		STO	1200	0369	3493	2778	0004320	0615	14854								
		OBS	1200	0369	34927	2778			14854								
		STO	1300	0369	3493	2778	0004396	0659	14870								
		OBS	1300	0369	34929	2778			14870								
		STO	1400	0369	3494	2779	0004391	0702	14887								
		OBS	1400	0369	34941	2779			14887								
		STO	1500	0369	3494	2779	0004457	0747	14904								
		OBS	1500	0369	34943	2779			14904								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPE	AMT				
					WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
					DT	SD	34	510			054	039	039	7	28									
318039	EV	4425 N	04805 W	149	48	05	19	001	1968	002	10193		3658	1	15	1	2		X2	0 3	0154			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -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	SEC							
		STD	0000	0325	3317	2642	0016129	0000	14612															
001		OBS	0000	0325	33168	2642			14612															
		STD	0010	0279	3317	2647	0015753	0015	14594															
		OBS	0010	0279	33168	2647			14594															
		STD	0020	0256	3315	2647	0015720	0031	14585															
003		OBS	0020	0256	33148	2647			14585															
		OBS	0025	0136	33123	2654			14533															
		STD	0030	0097	3323	2665	0014029	0046	14517															
		OBS	0030	0097	33228	2665			14517															
		OBS	0037	0083	33528	2690			14516															
		STD	0050	0116	3378	2708	0009929	0070	14537															
		OBS	0050	0116	33783	2708			14537															
		STD	0075	0302	3416	2724	0008453	0093	14628															
		OBS	0075	0302	34165	2724			14628															
		STD	0100	0403	3453	2743	0006655	0112	14680															
		OBS	0100	0403	34533	2743			14680															
		OBS	0117	0491	34707	2747			14722															
		STD	0125	0491	3473	2749	0006128	0128	14723															
		OBS	0125	0491	34732	2749			14723															
		STD	0150	0446	3470	2752	0005880	0143	14709															
		OBS	0150	0446	34703	2752			14709															
		OBS	0160	0494	34787	2753			14731															
		STD	0200	0493	3487	2760	0005199	0171	14738															
		OBS	0200	0493	34871	2760			14738															
		STD	0250	0461	3488	2765	0004825	0196	14734															
		OBS	0250	0461	34880	2765			14734															
		STD	0300	0449	3489	2767	0004637	0219	14737															
		OBS	0300	0449	34895	2767			14737															
		STD	0400	0429	3492	2771	0004357	0264	14746															
		OBS	0400	0429	34916	2771			14746															
		STD	0500	0410	3491	2773	0004275	0307	14754															
		OBS	0500	0410	34912	2773			14754															
		STD	0600	0391	3490	2774	0004256	0350	14762															
		OBS	0600	0391	34900	2774			14762															
		STD	0700	0383	3490	2775	0004236	0393	14776															
		OBS	0700	0383	34902	2775			14776															
		STD	0800	0377	3490	2775	0004252	0435	14790															
		OBS	0800	0377	34903	2775			14790															
		STD	0900	0374	3490	2776	0004289	0478	14805															
		OBS	0900	0374	34905	2776			14805															
		STD	1000	0374	3491	2777	0004313	0521	14822															
		OBS	1000	0374	34913	2777			14822															
		STD	1100	0367	3492	2777	0004292	0564	14836															
		OBS	1100	0367	34916	2777			14836															
		STD	1200	0367	3493	2778	0004297	0607	14853															
		OBS	1200	0367	34927	2778			14853															
		STD	1300	0367	3494	2779	0004319	0650	14870															
		OBS	1300	0367	34936	2779			14870															
		STD	1400	0367	3494	2779	0004367	0693	14886															
		OBS	1400	0367	34941	2779			14886															
		STD	1500	0367	3495	2780	0004397	0737	14903															
		OBS	1500	0367	34948	2780			14903															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INCH	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	AMT		
318039	EV		4423 N	04751 W		149	47	05	19	016	1968	002	10194	3749	1	35	2	2		X4	0	3		0155
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB											
						DT	SD	34	509	058		039	039	2	28									

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta C$ DIN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	S C
		STD	0000	0336	3316	2641	0016301	0000	14617								
	016	OBS	0000	0336	33158	2641			14617								
		STD	0010	0319	3314	2641	0016315	0016	14611								
		OBS	0010	0319	33138	2641			14611								
		STD	0020	0291	3313	2643	0016129	0032	14600								
	005	OBS	0020	0291	33132	2643			14600								
		OBS	0025	0290	33132	2643			14600								
		STD	0030	0289	3314	2643	0016070	0048	14601								
		OBS	0030	0289	33138	2643			14601								
		OBS	0037	0287	33163	2645			14602								
		STD	0050	0097	3317	2660	0014499	0079	14520								
		OBS	0050	0097	33166	2660			14520								
		STD	0075	0158	3388	2713	0009490	0109	14561								
		OBS	0075	0158	33878	2713			14561								
		STD	0100	0204	3416	2732	0007695	0130	14589								
		OBS	0100	0204	34161	2732			14589								
		STD	0125	0250	3424	2734	0007486	0149	14615								
		OBS	0125	0250	34238	2734			14615								
		STD	0150	0397	3451	2742	0006843	0167	14685								
		OBS	0150	0397	34506	2742			14685								
		OBS	0162	0437	34676	2751			14706								
		STD	0200	0490	3484	2758	0005431	0198	14737								
		OBS	0200	0490	34836	2758			14737								
		STD	0250	0477	3489	2763	0004951	0224	14740								
		OBS	0250	0477	34888	2763			14740								
		STD	0300	0456	3490	2767	0004696	0248	14740								
		OBS	0300	0456	34898	2767			14740								
		OBS	0340	0465	34918	2767			14751								
		STD	0400	0427	3492	2771	0004329	0293	14745								
		OBS	0400	0427	34918	2771			14745								
		STD	0500	0412	3491	2772	0004341	0336	14755								
		OBS	0500	0412	34907	2772			14755								
		STD	0600	0397	3492	2775	0004184	0379	14765								
		OBS	0600	0397	34918	2775			14765								
		STD	0700	0395	3492	2775	0004248	0421	14781								
		OBS	0700	0395	34919	2775			14781								
		STD	0800	0391	3493	2776	0004226	0463	14796								
		OBS	0800	0391	34928	2776			14796								
		STD	0900	0384	3491	2775	0004399	0507	14809								
		OBS	0900	0384	34906	2775			14809								
		STD	1000	0381	3491	2775	0004437	0551	14825								
		OBS	1000	0381	34908	2775			14825								
		STD	1100	0380	3491	2776	0004477	0595	14841								
		OBS	1100	0380	34913	2776			14841								
		STD	1200	0380	3492	2777	0004502	0640	14858								
		OBS	1200	0380	34921	2777			14858								
		STD	1300	0380	3492	2777	0004562	0686	14875								
		OBS	1300	0380	34925	2777			14875								
		STD	1400	0380	3493	2778	0004586	0731	14892								
		OBS	1400	0380	34933	2778			14892								
		STD	1500	0380	3494	2778	0004637	0777	14909								
		OBS	1500	0380	34938	2778			14909								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CHIT INCH	MARSSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.				STATION NUMBER		DIR.	HGT		PER	SEA		TYPE
318039		EV	44190N	047280W		149	47	05	19	035	1968	002	10195		3968	1	21	2	3		X4	0	3	0156	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		CDLDR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mba)		DRY BULB	WET BULB																
		DT	SD	34	S11	061		039	039	2	30														
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	Si D ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	SS M/L								
		STD	0000	0378	3318	2639	0016482	0000	14635																
035		OBS	0000	0378	33184	2639			14635																
		STD	0010	0340	3316	2641	0016298	0016	14620																
		OBS	0010	0340	33164	2641			14620																
		STD	0020	0355	3322	2644	0015988	0032	14629																
003		OBS	0020	0355	33224	2644			14629																
		OBS	0025	0350	33244	2646			14628																
		STD	0030	0343	3325	2648	0015668	0048	14626																
		OBS	0030	0343	33253	2648			14626																
		STD	0050	0115	3336	2674	0013100	0077	14531																
		OBS	0050	0115	33364	2674			14531																
		OBS	0065	0097	33704	2703			14530																
		STD	0075	0117	3396	2722	0008561	0104	14544																
		OBS	0075	0117	33964	2722			14544																
		OBS	0094	0198	34144	2731			14585																
		STD	0100	0308	3432	2736	0007370	0124	14637																
		OBS	0100	0308	34318	2736			14637																
		OBS	0120	0237	34285	2739			14609																
		STD	0125	0248	3430	2740	0006971	0142	14615																
		OBS	0125	0248	34304	2740			14615																
		OBS	0135	0357	34504	2746			14666																
		STD	0150	0320	3448	2748	0006265	0158	14652																
		OBS	0150	0320	34484	2748			14652																
		OBS	0160	0277	34487	2752			14636																
		STD	0200	0350	3464	2758	0005389	0187	14676																
		OBS	0200	0350	34644	2758			14676																
		STD	0250	0472	3490	2765	0004813	0213	14738																
		OBS	0250	0472	34899	2765			14738																
		STD	0300	0496	3496	2767	0004698	0237	14757																
		OBS	0300	0496	34959	2767			14757																
		STD	0400	0469	3496	2770	0004459	0282	14763																
		OBS	0400	0469	34964	2770			14763																
		STD	0500	0448	3497	2773	0004277	0326	14771																
		OBS	0500	0448	34971	2773			14771																
		STD	0600	0434	3497	2774	0004256	0369	14781																
		OBS	0600	0434	34966	2774			14781																
		STD	0700	0415	3496	2776	0004157	0411	14790																
		OBS	0700	0415	34962	2776			14790																
		STD	0800	0395	3494	2777	0004171	0452	14798																
		OBS	0800	0395	34942	2777			14798																
		STD	0900	0378	3493	2777	0004173	0494	14807																
		OBS	0900	0378	34927	2777			14807																
		STD	1000	0380	3494	2778	0004151	0536	14825																
		OBS	1000	0380	34945	2778			14825																
		STD	1100	0375	3494	2779	0004225	0578	14840																
		OBS	1100	0375	34939	2779			14840																
		STD	1200	0375	3494	2779	0004276	0620	14856																
		OBS	1200	0375	34944	2779			14856																
		STD	1300	0369	3495	2780	0004219	0663	14871																
		OBS	1300	0369	34953	2780			14871																
		STD	1400	0367	3495	2780	0004279	0705	14887																
		OBS	1400	0367	34953	2780			14887																
		STD	1500	0366	3496	2781	0004314	0748	14903																
		OBS	1500	0366	34957	2781			14903																

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

WATER		WIND		BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	33	S16	068	033	033	5	36	

MESSAGE TIME OF HR 1/10	CAST NO.	CARO 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 $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SIO ₄ -Si $\mu g - dl/l$	pH	S C
056	STD	0000	0242	3281	2621	0018175	0000	14571									
	OBS	0000	0242	32809	2621			14571									
003	STD	0010	0126	3275	2625	0017804	0018	14521									
	OBS	0010	0126	32754	2625			14521									
	STD	0020	0101	3279	2629	0017395	0035	14511									
	OBS	0020	0101	32789	2629			14511									
	OBS	0025	0110	32909	2638			14518									
	STD	0030	0331	3351	2669	0013632	0051	14624									
	OBS	0030	0331	33509	2669			14624									
	OBS	0034	0398	33600	26700												
	OBS	0041	0280	33400	26650												
	STD	0050	0321	3346	2666	0013932	0078	14622									
	OBS	0050	0321	33459	2666			14622									
	OBS	0052	0361	33479	2664			14640									
	OBS	0059	0283	33309	2657			14605									
	STD	0075	0734	3442	2693	0011420	0110	14808									
	OBS	0075	0734	34419	2693			14808									
	OBS	0082	0773	34504	2695			14826									
	STD	0100	0540	3427	2707	0010125	0137	14733									
	OBS	0100	0540	34269	2707			14733									
	OBS	0112	0235	33934	2711			14602									
	STD	0125	0360	3407	2711	0009739	0162	14660									
	OBS	0125	0360	34069	2711			14660									
	OBS	0129	0380	34149	2715			14670									
	OBS	0140	0180	34009	2722			14583									
	STD	0150	0493	3446	2727	0008239	0184	14725									
	OBS	0150	0493	34457	2727			14725									
	OBS	0156	0459	34432	2729			14711									
	OBS	0190	0630	34829	2740			14792									
	STD	0200	0598	3475	2738	0007363	0223	14780									
	OBS	0200	0598	34749	2738			14780									
	OBS	0222	0300	34519	2752			14656									
	STD	0250	0526	3469	2758	0005502	0255	14760									
	OBS	0250	0526	34890	2758			14760									
	STD	0300	0478	3489	2764	0004991	0282	14749									
	OBS	0300	0478	34891	2764			14749									
	STD	0400	0399	3485	2769	0004534	0329	14732									
	OBS	0400	0399	34849	2769			14732									
	STD	0500	0379	3485	2771	0004407	0374	14740									
	OBS	0500	0379	34849	2771			14740									
	STD	0600	0374	3486	2772	0004364	0418	14755									
	OBS	0600	0374	34859	2772			14755									
	STD	0700	0372	3487	2773	0004369	0461	14771									
	OBS	0700	0372	34868	2773			14771									
	STD	0800	0370	3488	2774	0004372	0505	14786									
	OBS	0800	0370	34876	2774			14786									
	STD	0900	0370	3469	2775	0004360	0549	14803									
	OBS	0900	0370	34889	2775			14803									
	STD	1000	0370	3490	2776	0004383	0592	14820									
	OBS	1000	0370	34897	2776			14820									
	STD	1100	0370	3491	2777	0004389	0636	14837									
	OBS	1100	0370	34908	2777			14837									
	STD	1200	0370	3492	2778	0004368	0680	14854									
	OBS	1200	0370	34923	2778			14854									
	STD	1300	0373	3493	2778	0004408	0724	14872									
	OBS	1300	0373	34934	2778			14872									
	STD	1400	0375	3495	2779	0004402	0768	14890									
	OBS	1400	0375	34949	2779			14890									
	STD	1500	0374	3495	2780	0004431	0812	14906									
	OBS	1500	0374	34955	2780			14906									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
															DIR	HGT	PER	SEA		TYPE	AMT	
318039		EV	44070N	046250W	149 46 05 19 086	1968			002	10197		4060	1	32	4	2		X1	0 3			0158
		WATER COLOR CODE	TRANS. (m)	WIND DIR.	SPEED OR FORCE	BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS											
							DRY BULB	WET BULB														
							DT	SO					32	518	091	061	061	7	35			
MESSINGR TIME HR 1/10	CST OF ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD4-P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si D ₄ -Si μg - dl/l	pH	S C					
		STD	0000	1327	3540	2667	0013839	0000	15023													
086		OBS	0000	1327	35400	2667			15023													
		STD	0010	1338	3543	2667	0013831	0013	15026													
		OBS	0010	1338	35435	2667			15028													
		STD	0020	1419	3574	2674	0013201	0027	15060													
003		OBS	0020	1419	35745	2674			15060													
		OBS	0025	1441	35807	2674			15069													
		STD	0030	1446	3583	2675	0013124	0040	15072													
		OBS	0030	1446	35835	2675			15072													
		STD	0050	1451	3586	2676	0013066	0066	15077													
		OBS	0050	1451	35865	2676			15077													
		STD	0075	1460	3591	2678	0013007	0099	15085													
		OBS	0075	1460	35909	2678			15085													
		OBS	0090	1463	35925	2678			15088													
		STD	0100	1491	3603	2681	0012816	0131	15100													
		OBS	0100	1491	36034	2681			15100													
		STD	0125	1445	3593	2683	0012675	0163	15088													
		OBS	0125	1445	35933	2683			15088													
		STD	0150	1416	3588	2685	0012571	0195	15082													
		OBS	0150	1416	35875	2685			15082													
		STD	0200	1317	3564	2688	0012403	0457	15055													
		OBS	0200	1317	35645	2688			15055													
		OBS	0221	1225	35465	2692			15025													
		STD	0250	1253	3557	2695	0011845	0318	15041													
		OBS	0250	1253	35570	2695			15041													
		OBS	0275	1238	35575	2698			15040													
		STD	0300	1139	3541	2705	0010987	0375	15008													
		OBS	0300	1139	35415	2705			15008													
		OBS	0315	1041	35275	2711			14974													
		OBS	0335	1043	35307	2714			14978													
		STD	0400	0880	3512	2726	0008978	0475	14927													
		OBS	0400	0880	35118	2726			14927													
		OBS	0417	0772	34987	2733			14887													
		OBS	0440	0775	35013	2734			14892													
		STD	0500	0548	3477	2746	0006936	0554	14809													
		OBS	0500	0548	34775	2746			14809													
		OBS	0515	0522	34760	2748			14801													
		OBS	0531	0579	34920	2754			14829													
		STD	0600	0558	3498	2761	0005637	0617	14832													
		OBS	0600	0558	34985	2761			14832													
		OBS	0672	0559	35080	2769			14846													
		STD	0700	0546	3506	2769	0005033	0670	14845													
		OBS	0700	0546	35063	2769			14845													
		STD	0800	0498	3504	2773	0004697	0719	14842													
		OBS	0800	0498	35041	2773			14842													
		STD	0900	0460	3501	2775	0004519	0765	14843													
		OBS	0900	0460	35015	2775			14843													
		STD	1000	0449	3502	2777	0004422	0810	14855													
		OBS	1000	0449	35024	2777			14855													
		STD	1100	0428	3501	2778	0004374	0854	14863													
		OBS	1100	0428	35008	2778			14863													
		STD	1200	0417	3500	2779	0004379	0897	14875													
		OBS	1200	0417	35001	2779			14875													
		STD	1300	0404	3499	2780	0004355	0941	14886													
		OBS	1300	0404	34995	2780			14886													
		STD	1400	0392	3498	2780	0004371	0985	14897													
		OBS	1400	0392	34983	2780			14897													
		STD	1500	0378	3497	2781	0004357	1028	14908													
		OBS	1500	0378	34973	2781			14908													

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	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. 1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV		43200N	046160W	149	36	05	19	133	1968		002	10198		4663	1	30	2	2		X1	0	3	0159
		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															
		DT	SD	32	S17	125		117	100	7	30													
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	Si O ₄ -Si $\mu g - \sigma_t/l$	pH	S C							
		STD	0000	1301	3525	2660	0014436	0000	15012															
133		OBS	0000	1301	35251	2660			15012															
		STD	0010	1428	3565	2665	0014041	0014	15061															
		OBS	0010	1428	35651	2665			15061															
		STD	0020	1525	3608	2677	0012961	0027	15098															
003		OBS	0020	1525	36080	2677			15098															
		OBS	0025	1563	36110	2670			15111															
		STD	0030	1548	3610	2673	0013337	0040	15107															
		OBS	0030	1548	36100	2673			15107															
		STD	0050	1525	3606	2675	0013190	0067	15103															
		OBS	0050	1525	36061	2675			15103															
		STD	0075	1526	3611	2679	0012907	0100	15108															
		OBS	0075	1526	36113	2679			15108															
		STD	0100	1547	3618	2679	0012961	0132	15120															
		OBS	0100	1547	36178	2679			15120															
		STD	0125	1547	3618	2680	0013003	0164	15124															
		OBS	0125	1547	36183	2680			15124															
		STD	0150	1547	3619	2680	0013064	0197	15128															
		OBS	0150	1547	36186	2680			15128															
		STD	0200	1548	3619	2680	0013220	0263	15136															
		OBS	0200	1548	36189	2680			15136															
		STD	0250	1448	3592	2681	0013191	0329	15110															
		OBS	0250	1448	35921	2681			15110															
		STD	0300	1365	3574	2685	0012945	0394	15089															
		OBS	0300	1365	35741	2685			15089															
		STD	0400	1169	3548	2704	0011315	0515	15036															
		OBS	0400	1169	35479	2704			15036															
		OBS	0435	1031	35238	2710			14990															
		OBS	0470	1021	35273	2715			14992															
		STD	0500	0958	3522	2721	0009709	0620	14973															
		OBS	0500	0958	35219	2721			14973															
		OBS	0579	0737	34964	2736			14900															
		OBS	0583	0752	34996	2736			14907															
		STD	0600	0738	3501	2739	0007943	0709	14904															
		OBS	0600	0738	35012	2739			14904															
		OBS	0622	0695	34991	2744			14891															
		OBS	0639	0706	35043	2746			14899															
		OBS	0670	0564	34881	2753			14845															
		OBS	0679	0617	34981	2754			14869															
		STD	0700	0594	3500	2759	0006100	0779	14864															
		OBS	0700	0594	35005	2759			14864															
		STD	0800	0520	3498	2766	0005414	0837	14850															
		OBS	0800	0520	34983	2766			14850															
		STD	0900	0473	3496	2770	0005053	0889	14847															
		OBS	0900	0473	34965	2770			14847															
		STD	1000	0459	3499	2773	0004827	0938	14858															
		OBS	1000	0459	34986	2773			14858															
		STD	1100	0450	3501	2776	0004670	0986	14872															
		OBS	1100	0450	35006	2776			14872															
		STD	1200	0429	3499	2777	0004598	1032	14879															
		OBS	1200	0429	34992	2777			14879															

REFERENCE	SHIP	LATITUDE	LONGITUDE	ORIG. INDIR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER				
					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
318039	EV	4323 N	04656 W	149	36	05	19	163	1968	002	10199	4078	1	33	4	4		X1	013		0160					
					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	DRY BULB	WET BULB														
					DT	SD	30	S12	159	106	089	7	32													
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. X 10 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	1387	3548	2660	0014436	0000	15043																	
163		OBS	0000	1387	35480	2660			15043																	
		STD	0010	1396	3552	2661	0014375	0014	15049																	
		OBS	0010	1396	35517	2661			15049																	
		STD	0020	1401	3555	2663	0014268	0028	15052																	
003		OBS	0020	1401	35550	2663			15052																	
		OBS	0025	1407	35576	2663			15055																	
		STD	0030	1419	3561	2664	0014180	0043	15060																	
		OBS	0030	1419	35615	2664			15060																	
		OBS	0042	1569	36189	2675			15117																	
		STD	0050	1566	3617	2675	0013239	0070	15117																	
		OBS	0050	1566	36175	2675			15117																	
		STD	0075	1550	3615	2677	0013117	0103	15116																	
		OBS	0075	1550	36155	2677			15116																	
		STD	0100	1531	3611	2678	0013112	0136	15114																	
		OBS	0100	1531	36110	2678			15114																	
		STD	0125	1495	3606	2682	0012794	0168	15106																	
		OBS	0125	1495	36059	2682			15106																	
		STD	0150	1469	3600	2683	0012783	0200	15101																	
		OBS	0150	1469	35997	2683			15101																	
		STD	0200	1407	3585	2685	0012678	0264	15087																	
		OBS	0200	1407	35855	2685			15087																	
		STD	0250	1353	3577	2690	0012358	0326	15077																	
		OBS	0250	1353	35768	2690			15077																	
		STD	0300	1260	3562	2697	0011747	0387	15052																	
		OBS	0300	1260	35620	2697			15052																	
		STD	0400	1056	3532	2712	0010448	0497	14994																	
		OBS	0400	1056	35318	2712			14994																	
		OBS	0430	0939	35194	2723			14955																	
		OBS	0465	0910	35154	2724			14949																	
		OBS	0488	0825	35057	2730			14920																	
		STD	0500	0823	3512	2735	0008271	0591	14922																	
		OBS	0500	0823	35118	2735			14922																	
		OBS	0537	0769	35099	2742			14907																	
		OBS	0549	0659	34907	2742			14863																	
		OBS	0569	0690	35019	2747			14880																	
		STD	0600	0620	3496	2752	0006651	0666	14857																	
		OBS	0600	0620	34960	2752			14857																	
		STD	0700	0541	3498	2763	0005596	0727	14842																	
		OBS	0700	0541	34978	2763			14842																	
		OBS	0755	0507	34977	2767			14837																	
		STD	0800	0536	3505	2769	0005132	0781	14858																	
		OBS	0800	0536	35049	2769			14858																	
		OBS	0847	0536	35080	2772			14866																	
		OBS	0858	0507	35046	2772			14855																	
		STD	0900	0494	3504	2773	0004786	0830	14857																	
		OBS	0900	0494	35038	2773			14857																	
		STD	1000	0454	3500	2775	0004673	0877	14857																	
		OBS	1000	0454	34998	2775			14857																	
		STD	1100	0424	3498	2776	0004540	0924	14860																	
		OBS	1100	0424	34978	2776			14860																	
		STD	1200	0417	3499	2778	0004494	0969	14874																	
		OBS	1200	0417	34986	2778			14874																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	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		
318039		EV	43280N	047430W		149	37	05	19	201	1968	002	10200	3913	1	32	3	2		X2	0	3		0161
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	SD	26	S04		159	072	061	7	38									
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₂ -Si μg - at/l	pH							
		STD	0000	0892	3365	2609	0019289		0000	14847														
201		OBS	0000	0892	33646	2609				14847														
		STD	0010	1180	3475	2645	0015927		0017	14966														
		OBS	0010	1180	34746	2645				14966														
003		OBS	0016	1188	35286	2685				14977														
		STD	0020	1288	3555	2686	0012076		0031	15015														
		OBS	0020	1288	35546	2686				15015														
		OBS	0025	1369	35775	2687				15045														
		STD	0030	1371	3576	2685	0012143		0043	15047														
		OBS	0030	1371	35761	2685				15047														
		STD	0050	1377	3578	2685	0012220		0068	15052														
		OBS	0050	1377	35776	2685				15052														
		STD	0075	1358	3575	2687	0012126		0098	15050														
		OBS	0075	1358	35746	2687				15050														
		STD	0100	1281	3557	2689	0012012		0128	15026														
		OBS	0100	1281	35566	2689				15026														
		STD	0125	1231	3549	2693	0011671		0158	15012														
		OBS	0125	1231	35493	2693				15012														
		OBS	0130	1242	35521	2693				15017														
		STD	0150	1148	3535	2697	0011281		0187	14986														
		OBS	0150	1148	35346	2697				14986														
		OBS	0155	1186	35426	2696				15001														
		OBS	0174	1149	35356	2698				14990														
		OBS	0193	0944	34897	2699				14914														
		STD	0200	0956	3499	2704	0010743		0242	14920														
		OBS	0200	0956	34989	2704				14920														
		OBS	0210	1038	35237	2709				14955														
		OBS	0218	0946	35036	2709				14920														
		OBS	0231	1007	35190	2711				14947														
		STD	0250	0988	3520	2714	0009846		0293	14943														
		OBS	0250	0988	35196	2714				14943														
		STD	0300	0825	3496	2723	0009072		0340	14888														
		OBS	0300	0825	3522P	2743P																		
		OBS	0340	0628P	34778	2736P																		
		OBS	0349	0745	35035	2740				14866														
		OBS	0356	0628	34829	2740				14818														
		STD	0400	0657	3498	2748	0006740		0419	14839														
		OBS	0400	0657	34976	2748				14839														
		OBS	0420	0650	34951	2747				14839														
		OBS	0456	0587	34926	2753				14820														
		OBS	0496	0566	34954	2758				14818														
		STD	0500	0571	3497	2759	0005755		0482	14821														
		OBS	0517	0588	35045	2762				14832														
		OBS	0573	0578	35079	2766				14837														
		STD	0600	0526	3500	2766	0005137		0536	14820														
		OBS	0600	0526	34997	2766				14820														
		OBS	0620	0496	34980	2769				14610														
		STD	0700	0480	3501	2772	0004613		0585	14817														
		OBS	0700	0480	35006	2772				14817														
		STD	0800	0455	3500	2775	0004429		0630	14824														
		OBS	0800	0455	35004	2775				14824														
		STD	0900	0429	3499	2777	0004346		0674	14829														
		OBS	0900	0429	34986	2777				14829														
		STD	1000	0421	3499	2777	0004338		0718	14843														
		OBS	1000	0421	34987	2777				14843														
		STD	1100	0413	3499	2778	0004334		0761	14856														
		OBS	1100	0413	34987	2778				14856														
		STD	1200	0399	3498	2779	0004310		0804	14867														
		OBS	1200	0399	34980	2779				14867														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	GMT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		43000N	048130W		149	38	05	19	237	1968	002	10201	3255	1	20	2	2		X2	0 3	0162
		WATER		WIND		BARO- METER	AIR TEMP. °C		VIC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
		DT	SD	18	509	146	083	083	7	39												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	ND ₃ -N μg - dl/l	SiD ₄ -Si μg - dl/l	pH	S CC				
		STD	0000	0744	3340	2612	0019017		0000	14787												
237		OBS	0000	0744	33400	2612				14787												
		STD	0010	0697	3340	2619	0018379		0018	14770												
		OBS	0010	0697	33405	2619				14770												
		STD	0020	0698	3345	2623	0018032		0036	14773												
003		OBS	0020	0698	33455	2623				14773												
		OBS	0025	0768	34225	2673				14811												
		STD	0030	0878	3447	2676	0013055		0052	14857												
		OBS	0030	0878	34466	2676				14857												
		STD	0050	1090	3514	2693	0011497		0077	14946												
		OBS	0050	1090	35145	2693				14946												
		STD	0075	1172	3536	2694	0011433		0105	14982												
		OBS	0075	1172	35359	2694				14982												
		STD	0100	1166	3534	2694	0011494		0134	14984												
		OBS	0100	1166	35345	2694				14984												
		OBS	0115	1084	35167	2695				14955												
		STD	0125	1121	3531	2700	0010969		0162	14972												
		OBS	0125	1121	35315	2700				14972												
		OBS	0145	1124	35320	2700				14976												
		STD	0150	0998	3506	2703	0010759		0189	14929												
		OBS	0150	0998	35065	2703				14929												
		OBS	0160	0972	35007	2702				14920												
		OBS	0185	1024	35193	2708				14945												
		STD	0200	0900	3496	2711	0010026		0241	14899												
		OBS	0200	0900	34965	2711				14899												
		OBS	0203	0920	35025	2712				14908												
		STD	0250	0655	3460	2719	0009255		0289	14809												
		OBS	0250	0655	34604	2719				14809												
		OBS	0261	0737	34895	2730				14846												
		OBS	0275	0679	34795	2731				14825												
		OBS	0291	0708	34886	2734				14840												
		STD	0300	0666	3481	2734	0007907		0332	14824												
		OBS	0300	0666	34815	2734				14824												
		OBS	0312	0579	34698	2736				14790												
		OBS	0329	0587	34740	2738				14796												
		OBS	0345	0684	34965	2743				14840												
		OBS	0360	0598	34825	2744				14807												
		STD	0400	0547	3483	2751	0006397		0404	14793												
		OBS	0400	0547	34830	2751				14793												
		OBS	0420	0512	34848	2756				14782												
		STD	0500	0537	3499	2764	0005223		0462	14807												
		OBS	0500	0537	34988	2764				14807												
		STD	0600	0500	3501	2770	0004734		0512	14809												
		OBS	0600	0500	35008	2770				14809												
		OBS	0680	0481	35035	2775				14815												
		STD	0700	0497	3507	2775	0004383		0557	14825												
		OBS	0700	0497	35066	2775				14825												
		STD	0800	0450	3503	2777	0004206		0600	14822												
		OBS	0800	0450	35026	2777				14822												
		STD	0900	0421	3499	2778	0004196		0642	14826												
		OBS	0900	0421	34993	2778				14826												
		STD	1000	0417	3500	2779	0004169		0684	14841												
		OBS	1000	0417	35004	2779				14841												
		STD	1100	0397	3498	2780	0004177		0726	14849												
		OBS	1100	0397	34982	2780				14849												
		STD	1200	0390	3498	2780	0004169		0767	14863												
		OBS	1200	0390	34983	2780				14863												
		STD	1300	0381	3498	2781	0004186		0809	14876												
		OBS	1300	0381	34978	2781				14876												
		STD	1400	0380	3498	2782	0004217		0851	14892												
		OBS	1400	0380	34984	2782				14892												
		STD	1500	0378	3498	2782	0004278		0894	14908												
		OBS	1500	0378	34983	2782				14908												

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		42510N	047375W		149	27	05	20	027	1968	002	10202		3742	1	20	2	2		X6	03		0163	
						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																
						DT	SD	18	516	091		078		078		6	35								

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 $\mu\text{g} - \text{at/l}$	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
		STD	0000	0186	3342	2608	0019443	0000	14803								
	027	OBS	0000	0786	33420	2608			14803								
		STD	0000	0786	3342	2608	0019443	0000	14803								
	027	OBS	0000	0786	33420	2608			14803								
		STD	0010	0785	3348	2613	0018970	0019	14805								
		OBS	0010	0785	33484	2613			14805								
		STD	0020	0778	3347	2613	0018995	0038	14804								
	003	OBS	0020	0778	33469	2613			14804								
		OBS	0025	0738	33444	2616			14789								
		STD	0030	0662	3344	2627	0017672	0056	14760								
		OBS	0030	0662	33444	2627			14760								
		STD	0050	0438	3370	2674	0013197	0087	14675								
		OBS	0050	0438	33704	2674			14675								
		OBS	0051	0506	33844	2677			14706								
		OBS	0057	0399	33704	2678			14660								
		OBS	0064	0458	34104	2703			14691								
		OBS	0068	0433	34084	2705			14681								
		STD	0075	0578	3432	2706	0010165	0116	14745								
		OBS	0075	0578	34319	2706			14745								
		OBS	0084	0642	34429	2707			14774								
		STD	0100	0490	3429	2715	0009373	0141	14713								
		OBS	0100	0490	34294	2715			14713								
		OBS	0107	0462	34264	2716			14702								
		STD	0125	0637	3466	2726	0008389	0163	14782								
		OBS	0125	0637	34664	2726			14782								
		STD	0150	0550	3454	2727	0008268	0184	14749								
		OBS	0150	0550	34541	2727			14749								
		OBS	0177	0481	34521	2734			14725								
		STD	0200	0620	3485	2743	0006860	0221	14790								
		OBS	0200	0620	34854	2743			14790								
		OBS	0202	0650	34907	2743			14803								
		STD	0250	0563	3491	2755	0005775	0253	14776								
		OBS	0250	0563	34914	2755			14776								
		OBS	0270	0498	34767	2751			14751								
		OBS	0280	0517	34854	2756			14761								
		STD	0300	0506	3484	2757	0005666	0282	14760								
		OBS	0300	0506	34845	2757			14760								
		STD	0400	0518	3498	2766	0004918	0335	14783								
		OBS	0400	0518	34980	2766			14783								
		STD	0500	0479	3498	2771	0004538	0382	14784								
		OBS	0500	0479	34984	2771			14784								
		STD	0600	0458	3499	2774	0004371	0426	14792								
		OBS	0600	0458	34988	2774			14792								
		STD	0700	0458	3501	2776	0004283	0470	14809								
		OBS	0700	0458	35015	2776			14809								
		STD	0800	0437	3501	2778	0004163	0512	14816								
		OBS	0800	0437	35011	2778			14816								
		STD	0900	0414	3499	2778	0004154	0553	14823								
		OBS	0900	0414	34988	2778			14823								
		STD	1000	0415	3501	2780	0004111	0595	14840								
		OBS	1000	0415	35008	2780			14840								
		STD	1100	0411	3501	2781	0004126	0636	14856								
		OBS	1100	0411	35012	2781			14856								
		STD	1200	0402	3501	2781	0004151	0677	14868								
		OBS	1200	0402	35006	2781			14868								
		STD	1300	0391	3500	2781	0004173	0719	14880								
		OBS	1300	0391	34997	2781			14880								
		STD	1400	0384	3500	2782	0004169	0761	14894								
		OBS	1400	0384	34997	2782			14894								
		STD	1500	0381	3500	2783	0004210	0803	14910								
		OBS	1500	0381	34998	2783			14910								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT							
						10"	1"	MO	DAY	HR./10																				
318039	EV		42130N	048260W		149	28	05	20	091	1968	002	10203		3566	1	23	3	2		X4	0	3	0164						
		WATER		WIND		AIR TEMP. °C		BARO- METER		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																		
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS																					
		DT	SD	24	S22	044	117	117	2	31																				
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. $\times 10^3$	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C													
		STO	0000	0733	3327	2603	0019869	0000	14781																					
	091	OBS	0000	0733	33267	2603			14781																					
		STO	0010	0680	3326	2610	0019221	0019	14761																					
		OBS	0010	0680	33263	2610			14761																					
		STO	0020	0518	3340	2641	0016267	0037	14700																					
	003	OBS	0020	0518	33403	2641			14700																					
		OBS	0025	0337	33523	2670			14626																					
		STO	0030	0293	3366	2685	0012137	0051	14610																					
		OBS	0030	0293	33663	2685			14610																					
		OBS	0040	0265	33683	2689			14600																					
		STO	0050	0280	3386	2702	0010529	0074	14610																					
		OBS	0050	0280	33863	2702			14610																					
		STD	0075	0318	3412	2719	0008907	0098	14634																					
		OBS	0075	0318	34123	2719			14634																					
		STD	0100	0431	3445	2734	0007537	0119	14691																					
		OBS	0100	0431	34454	2734			14691																					
		STO	0125	0457	3450	2735	0007479	0137	14706																					
		OBS	0125	0457	34502	2735			14706																					
		STO	0150	0460	3457	2740	0007020	0155	14713																					
		OBS	0150	0460	34571	2740			14713																					
		OBS	0180	0443	34643	2748			14711																					
		STO	0200	0499	3480	2754	0005778	0187	14740																					
		OBS	0200	0499	34803	2754			14740																					
		OBS	0210	0518	34843	2755			14750																					
		STO	0250	0482	3483	2758	0005431	0215	14742																					
		OBS	0250	0482	34831	2758			14742																					
		STD	0300	0491	3490	2763	0005072	0242	14754																					
		OBS	0300	0491	34901	2763			14754																					
		OBS	0380	0476	34943	2768			14762																					
		STD	0400	0511	3502	2770	0004517	0290	14781																					
		OBS	0400	0511	35023	2770			14781																					
		OBS	0450	0513	35037	2771			14790																					
		STO	0500	0477	3500	2773	0004374	0334	14783																					
		OBS	0500	0477	35003	2773			14783																					
		OBS	0550	0445	34978	2774			14778																					
		STD	0600	0456	3501	2776	0004162	0377	14791																					
		OBS	0600	0456	35013	2776			14791																					
		STO	0700	0446	3501	2777	0004138	0418	14804																					
		OBS	0700	0446	35014	2777			14804																					
		STD	0800	0425	3500	2778	0004114	0460	14811																					
		OBS	0800	0425	34998	2778			14811																					
		STD	0900	0404	3498	2779	0004114	0501	14819																					
		OBS	0900	0404	34977	2779			14819																					
		STD	1000	0394	3497	2779	0004131	0542	14831																					
		OBS	1000	0394	34971	2779			14831																					
		STD	1100	0396	3498	2780	0004139	0583	14849																					
		OBS	1100	0396	34985	2780			14849																					
		STD	1200	0384	3498	2781	0004099	0624	14861																					
		OBS	1200	0384	34983	2781			14861																					
		STD	1300	0378	3498	2781	0004142	0666	14875																					
		OBS	1300	0378	34979	2781			14875																					
		STD	1400	0378	3498	2782	0004193	0707	14892																					
		OBS	1400	0378	34983	2782			14892																					
		STD	1500	0373	3499	2783	0004155	0749	14906																					
		OBS	1500	0373	34991	2783			14906																					

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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	0506	3294	2606	0019606	0000	14685								
191		OBS	0000	0506	32939	2606			14685								
		OBS	0004	0505	32880	2601			14685								
		STO	0010	0477	3291	2607	0019506	0019	14674								
001		OBS	0010	0477	32912	2607			14674								
		STO	0020	0469	3293	2610	0019261	0038	14673								
		OBS	0020	0469	32935	2610			14673								
		OBS	0025	0469	32948	2611			14674								
		STO	0030	0464	3297	2613	0018971	0058	14673								
		OBS	0030	0464	32968	2613			14673								
		OBS	0035	0453	33120	2626			14671								
		OBS	0040	0437	33162	2631			14666								
		OBS	0045	0437	33247	2638			14668								
		STO	0050	0508	3377	2672	0013422	0090	14705								
		OBS	0050	0508	33772	2672			14705								
		OBS	0058	0577	33882	2672			14736								

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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
201		STD	0000	0533	3314	2619	0018383	0000	14699							
		OBS	0000	0533	33140	2619			14699							
		OBS	0004	0528	33139	2619			14698							
002		STD	0010	0515	3316	2623	0018031	0018	14693							
		OBS	0010	0515	33163	2623			14693							
		STD	0020	0513	3317	2623	0017978	0036	14694							
		OBS	0020	0513	33168	2623			14694							
		OBS	0025	0513	33179	2624			14695							
		STD	0030	0516	3323	2628	0017526	0054	14698							
		OBS	0030	0516	33234	2628			14698							
		OBS	0038	0564	33821	2669			14727							
		OBS	0044	0500	33731	2669			14700							
		OBS	0047	0598	34151	2691			14746							
		STD	0050	0608	3419	2692	0011491	0083	14751							
	OBS	0050	0608	34186	2692			14751								
	OBS	0062	0639	34253	2693			14767								
	STD	0075	0642	3425	2693	0011440	0111	14770								
	OBS	0075	0642	34253	2693			14770								
	OBS	0078	0647	34279	2694			14773								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	42465N	050230W		150	20	05	20	215	1968	002	10206	0494	1	21	2	2		X2	0	3	0167	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						DT	SD	20	S04	095	094	083	7					28					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	SEC COR						
		STD	0000	0777	3408	2661	0014409	0000	14808														
215		OBS	0000	0777	34080	2661			14808														
		STD	0010	0936	3459	2676	0012982	0013	14877														
		OBS	0010	0936	34590	2676			14877														
		STD	0020	1007	3478	2679	0012698	0026	14907														
001		OBS	0020	1007	34785	2679			14907														
		OBS	0025	1063	34980	2685			14930														
		STD	0030	1124	3513	2685	0012157	0039	14955														
		OBS	0030	1124	35130	2685			14955														
		OBS	0044	1211	35340	2685			14990														
		STD	0050	0913	3492	2705	0010260	0061	14879														
		OBS	0050	0913	34920	2705			14879														
		OBS	0065	0608	34220	2695			14754														
		STD	0075	0667	3436	2698	0010930	0087	14781														
		OBS	0075	0667	34365	2698			14781														
		STD	0100	0852	3488	2712	0009726	0113	14864														
		OBS	0100	0852	34880	2712			14864														
		OBS	0110	0800	34802	2714			14845														
		STD	0125	0790	3478	2714	0009604	0137	14843														
		OBS	0125	0790	34780	2714			14843														
		OBS	0136	0768	34730	2713			14836														
		OBS	0141	0695	34590	2712			14806														
		STD	0150	0673	3462	2718	0009230	0161	14799														
		OBS	0150	0673	34619	2718			14799														
		OBS	0175	0837	35065	2729			14873														
		STD	0200	0756	3496	2733	0007911	0204	14845														
		OBS	0200	0756	34960	2733			14845														
		OBS	0207	0668	34820	2734			14810														
		OBS	0227	0669	34872	2738			14814														
		OBS	0238	0725	35030	2743			14840														
		STD	0250	0718	3500	2742	0007131	0241	14839														
		OBS	0250	0718	35005	2742			14839														
		OBS	0285	0639	34931	2747			14812														
		STD	0300	0638	3495	2748	0006558	0276	14815														
		OBS	0300	0638	34946	2748			14815														
		OBS	0368	0547	34854	2752			14788														
		OBS	0371	0510	34856	2757			14773														
		STD	0400	0507	3488	2760	0005508	0336	14777														
		OBS	0400	0507	34883	2760			14777														
		OBS	0440	0496	34892	2762			14780														
		OBS	0450	0468	34900	2765			14770														

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	MARSOEN	STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD		NOCC	
						10"	1"	MO	OAT		HR, 1/10	CRUISE			STATION	TO	OF	DIR.		HGT	PER		SEA
CTRY	IO.																						
CODE	NO.																						
318039	EV	42360N	050220W		150	20	05	20	228	1968	002	10207		1829	1	22	3	2		X2	0	3	0168
						WATER		WIND		BARO-		AIR TEMP. °C											
						COLOR	TRANS.	DIR.	SPEED	BARO-		DRY	WET	VIS.	NO.								
						CODE	(m)		OR FORCE	METER	(mb)	BULR	BULR	CODE	DEPTHS								
						DT	SD	00	SOO	095		094	083	7	36								

MESSNGR	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ O	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	SCC
TIME	NO.	TYPE					ANOMALY-σ _T ?	DTN, M.	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		
HR 1/10								X 10 ³									
		STD	0000	0825	3394	2642	0016129	0000	14825								
228		OBS	0000	0825	33939	2642			14825								
		STD	0010	0872	3414	2651	0015351	0015	14847								
		OBS	0010	0872	34139	2651			14847								
002		STD	0020	1139	3512	2682	0012477	0029	14958								
		OBS	0020	1139	35119	2682			14958								
		OBS	0025	1213	35299	2681			14987								
		STD	0030	1225	3532	2681	0012551	0042	14992								
		OBS	0030	1225	35324	2681			14992								
		OBS	0037	1227	35339	2682			14994								
		STD	0050	0808	3445	2685	0012182	0066	14833								
		OBS	0050	0808	34449	2685			14833								
		OBS	0053	0697	34339	2692			14789								
		STD	0075	0698	3451	2706	0010240	0094	14796								
		OBS	0075	0698	34512	2706			14796								
		OBS	0085	0698	34514	2706			14797								
		STD	0100	0640	3450	2712	0009643	0119	14777								
		OBS	0100	0640	34496	2712			14777								
		STD	0125	0691	3470	2722	0008828	0142	14804								
		OBS	0125	0691	34699	2722			14804								
		OBS	0140	0592	34569	2724			14765								
		STD	0150	0631	3466	2726	0008387	0164	14783								
		OBS	0150	0631	34659	2726			14783								
		OBS	0180	0716	34879	2732			14825								
		STD	0200	0673	3485	2736	0007596	0204	14811								
		OBS	0200	0673	34849	2736			14811								
		OBS	0245	0618	34861	2744			14796								
		STD	0250	0618	3486	2744	0006850	0240	14797								
		OBS	0250	0618	34862	2744			14797								
		OBS	0270	0631	34909	2746			14806								
		OBS	0290	0581	34889	2751			14789								
		STD	0300	0589	3491	2752	0006183	0273	14795								
		OBS	0300	0589	34912	2752			14795								
		OBS	0330	0637	35025	2754			14820								
		OBS	0365	0597	34979	2756			14809								
		OBS	0385	0509	34969	2766			14777								
		STD	0400	0516	3498	2766	0004907	0328	14782								
		OBS	0400	0516	34979	2766			14782								
		STD	0500	0504	3499	2768	0004809	0377	14794								
		OBS	0500	0504	34988	2768			14794								
		STD	0600	0523	3509	2774	0004418	0423	14820								
		OBS	0600	0523	35089	2774			14820								
		STD	0700	0478	3504	2776	0004316	0466	14817								
		OBS	0700	0478	35043	2776			14817								
		STD	0800	0440	3500	2777	0004258	0509	14817								
		OBS	0800	0440	35002	2777			14817								
		STD	0900	0418	3498	2777	0004269	0552	14825								
		OBS	0900	0418	34979	2777			14825								
		STD	1000	0416	3498	2778	0004290	0595	14841								
		OBS	1000	0416	34985	2778			14841								
		STD	1100	0391	3495	2778	0004321	0638	14846								
		OBS	1100	0391	34952	2778			14846								
		STD	1200	0389	3496	2779	0004343	0681	14862								
		OBS	1200	0389	34958	2779			14862								
		STD	1300	0384	3496	2779	0004363	0725	14877								
		OBS	1300	0384	34959	2779			14877								
		STD	1400	0380	3496	2780	0004384	0768	14892								
		OBS	1400	0380	34961	2780			14892								
		STD	1500	0377	3497	2780	0004389	0812	14908								
		OBS	1500	0377	34966	2780			14908								

REFERENCE CTRY CODE	SHIP ID. NO. CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT MDSN	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV	42250N	050210W	150	20	05	21	005	1968	002	10208	2725	1	14	2	2		X2	0	3		0169
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE		TRANS.	DIR.		DRY BULB	WET BULB											
					DT	SD	14	506		095	083	078	7	31								
MESSENGR TIME HR 1/10	CST NO.	CARGO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	CTD CODE					
		STO	0000	0732	3350	2621	0018130	0000	14783													
005		OBS	0000	0732	33498	2621			14783													
		STO	0010	0703	3349	2624	0017854	0018	14773													
		OBS	0010	0703	33486	2624			14773													
		STO	0020	0645	3366	2646	0015839	0034	14754													
003		OBS	0020	0645	33659	2646			14754													
		OBS	0024	0558	33739	2663			14721													
		OBS	0025	0579	33779	2664			14730													
		STO	0030	0572	3410	2690	0011643	0048	14733													
		OBS	0030	0572	34104	2690			14733													
		STO	0050	0647	3432	2697	0010990	0071	14769													
		OBS	0050	0647	34318	2697			14769													
		STO	0075	0577	3434	2708	0010020	0097	14745													
		OBS	0075	0577	34337	2708			14745													
		OBS	0090	0577	34339	2708			14748													
		STO	0100	0631	3450	2714	0009506	0121	14773													
		OBS	0100	0631	34499	2714			14773													
		OBS	0115	0638	34519	2714			14779													
		STO	0125	0562	3454	2726	0008412	0144	14750													
		OBS	0125	0562	34537	2726			14750													
		STO	0150	0524	3452	2729	0008124	0164	14738													
		OBS	0150	0524	34519	2729			14738													
		OBS	0161	0582	34626	2730			14765													
		STO	0200	0359	3449	2745	0006618	0201	14677													
		OBS	0200	0359	34492	2745			14677													
		OBS	0240	0633	34969	2751			14803													
		STO	0250	0578	3487	2750	0006296	0234	14781													
		OBS	0250	0578	34869	2750			14781													
		OBS	0258	0527	34834	2753			14761													
		STO	0300	0517	3488	2758	0005530	0463	14765													
		OBS	0300	0517	34880	2758			14765													
		STO	0400	0500	3494	2765	0005008	0316	14775													
		OBS	0400	0500	34939	2765			14775													
		STO	0500	0497	3501	2770	0004595	0364	14791													
		OBS	0500	0497	35006	2770			14791													
		STO	0600	0477	3500	2773	0004478	0409	14800													
		OBS	0600	0477	35005	2773			14800													
		STO	0700	0469	3503	2776	0004274	0453	14813													
		OBS	0700	0469	35034	2776			14813													
		STO	0800	0461	3503	2777	0004307	0496	14827													
		OBS	0880	0455	35028	2777			14837													
		STO	0900	0439	3501	2778	0004261	0539	14834													
		OBS	0900	0439	35014	2778			14834													
		STO	1000	0426	3500	2778	0004270	0581	14845													
		OBS	1000	0426	35005	2778			14845													
		STO	1100	0417	3500	2779	0004292	0624	14858													
		OBS	1100	0417	35000	2779			14858													
		STO	1200	0404	3500	2780	0004236	0667	14869													
		OBS	1200	0404	34998	2780			14869													
		STO	1300	0398	3499	2780	0004283	0709	14883													
		OBS	1300	0398	34994	2780			14883													
		STO	1400	0390	3499	2781	0004312	0752	14897													
		OBS	1400	0390	34988	2781			14897													
		STO	1500	0383	3499	2782	0004296	0796	14911													
		OBS	1500	0383	34990	2782			14911													

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

318039	EV	42120N	050210W	150	20	05	21	023	1968	002	10209	3109	1	12	2	3			X2	0	3		0170
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	CIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	13	S06	081	083	078	7	29	

MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ CYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SIO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S CC
		STD	0000	0676	3330	2613	0018881	0000	14759								
	023	OBS	0000	0676	33300	2613			14759								
		STD	0010	0651	3332	2618	0018451	0018	14751								
		OBS	0010	0651	33318	2618			14751								
		STD	0020	0626	3334	2623	0018001	0036	14743								
	003	OBS	0020	0626	33338	2623			14743								
		OBS	0025	0598	33397	2631			14733								
		STD	0030	0548	3349	2645	0015954	0053	14715								
		OBS	0030	0548	33491	2645			14715								
		STD	0050	0388	3390	2694	0011239	0081	14657								
		OBS	0050	0388	33898	2694			14657								
		STD	0075	0482	3424	2711	0009678	0107	14705								
		OBS	0075	0482	34238	2711			14705								
		OBS	0090	0606	34498	2717			14761								
		STD	0100	0602	3451	2719	0009039	0130	14762								
		OBS	0100	0602	34513	2719			14762								
		OBS	0120	0485	34428	2726			14716								
		STD	0125	0531	3452	2728	0008186	0152	14737								
		OBS	0125	0531	34518	2728			14737								
		STD	0150	0505	3458	2736	0007450	0171	14731								
		OBS	0150	0505	34581	2736			14731								
		OBS	0162	0551	34678	2738			14753								
		OBS	0171	0509	34688	2744			14738								
		STD	0200	0507	3474	2748	0006348	0206	14742								
		OBS	0200	0507	34739	2748			14742								
		STD	0250	0508	3481	2754	0005905	0236	14752								
		OBS	0250	0508	34808	2754			14752								
		STD	0300	0497	3488	2760	0005319	0264	14757								
		OBS	0300	0497	34877	2760			14757								
		STD	0400	0501	3497	2767	0004812	0315	14776								
		OBS	0400	0501	34967	2767			14776								
		STD	0500	0485	3498	2770	0004661	0362	14786								
		OBS	0500	0485	34978	2770			14786								
		STD	0600	0436	3493	2771	0004553	0409	14782								
		OBS	0600	0436	34928	2771			14782								
		STD	0700	0414	3494	2775	0004289	0453	14789								
		OBS	0700	0414	34943	2775			14789								
		STD	0800	0415	3496	2776	0004254	0495	14807								
		OBS	0800	0415	34963	2776			14807								
		STD	0900	0416	3498	2777	0004247	0538	14824								
		OBS	0900	0416	34978	2777			14824								
		STD	1000	0398	3496	2778	0004247	0580	14833								
		OBS	1000	0398	34961	2778			14833								
		STD	1100	0393	3496	2778	0004291	0623	14847								
		OBS	1100	0393	34960	2778			14847								
		STD	1200	0388	3496	2779	0004296	0666	14862								
		OBS	1200	0388	34963	2779			14862								
		STD	1300	0383	3496	2780	0004316	0709	14877								
		OBS	1300	0383	34963	2780			14877								
		STD	1400	0380	3496	2780	0004349	0752	14892								
		OBS	1400	0380	34965	2780			14892								
		STD	1500	0378	3497	2781	0004392	0796	14908								
		OBS	1500	0378	34968	2781			14908								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPT INCH	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		HOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
318039	EV		41520N	050210W	150	10	05	21	045	1968	002	10210		3840	1	17	2	3		X6	0	3	0171
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIL CODE		NO. OBS. DEPTHS		SPECIAL					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	OR	SOB	064	039	039	6	42									
MESSNGR TIME HR 1/10	CST 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 - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	S CC						
045		STD	0000	0591	3300	2601	0020077	0000	14721														
		08S	0000	0591	33002	2601			14721														
		STD	0010	0568	3302	2605	0019717	0019	14713														
003		08S	0010	0568	33017	2605			14713														
		STD	0020	0561	3322	2621	0018143	0038	14715														
		08S	0020	0561	33217	2621			14715														
		08S	0025	0598	33417	2633			14733														
		STD	0030	0618	3343	2631	0017253	0056	14742														
		08S	0030	0618	33427	2631			14742														
		08S	0041	0299	33457	2668			14611														
		STD	0050	0458	3365	2667	0013805	0087	14683														
		08S	0050	0458	33650	2667			14683														
		STD	0075	0851	3436	2671	0013543	0121	14853														
		08S	0075	0851	34357	2671			14853														
		08S	0081	0757	34277	2679			14817														
		STD	0100	1024	3501	2694	0011512	0153	14929														
		08S	0100	1024	35007	2694			14929														
		08S	0111	1017	34997	2694			14928														
		STD	0125	0828	3462	2695	0011364	0181	14855														
		08S	0125	0828	34617	2695			14855														
		08S	0133	0790	34547	2695			14841														
		STD	0150	0859	3479	2704	0010554	0209	14874														
		08S	0150	0859	34795	2704			14874														
		08S	0155	0919	34957	2707			14899														
		08S	0174	0695	34617	2714			14812														
		08S	0180	0725	34677	2715			14826														
		STD	0200	0722	3471	2718	0009265	0258	14828														
		08S	0200	0722	34713	2718			14828														
		08S	0216	0722	34724	2719			14831														
		08S	0227	0663	34724	2727			14810														
		08S	0231	0696	34757	2725			14824														
		STD	0250	0697	3476	2726	0008640	0303	14827														
		08S	0250	0697	34762	2726			14827														
		08S	0273	0515	34743	2748			14758														
		STD	0300	0570	3481	2746	0006700	0341	14785														
		08S	0300	0570	34810	2746			14785														
		08S	0308	0593	34826	2745			14796														
		08S	0363	0477	34737	2751			14757														
		08S	0376	0547	34857	2753			14789														
		08S	0380	0488	34772	2753			14765														
		STD	0400	0450	3472	2753	0006081	0405	14752														
		08S	0400	0450	34717	2753			14752														
		08S	0440	0412	34744	2759			14743														
		STD	0500	0466	3489	2765	0005086	0461	14777														
		08S	0500	0466	34890	2765			14777														
		STD	0600	0439	3494	2771	0004531	0509	14783														
		08S	0600	0439	34936	2771			14783														
		08S	0650	0475	34980	2771			14807														
		STD	0700	0461	3497	2772	0004617	0555	14809														
		08S	0700	0461	34974	2772			14809														
		STD	0800	0449	3500	2775	0004400	0600	14821														
		08S	0800	0449	34998	2775			14821														
		STD	0900	0457	3503	2777	0004397	0644	14841														
		08S	0900	0457	35027	2777			14841														
		STD	1000	0431	3500	2778	0004344	0688	14847														
		08S	1000	0431	35003	2778			14847														
		STD	1100	0421	3500	2778	0004364	0731	14859														
		08S	1100	0421	34997	2778			14859														
		STD	1200	0409	3499	2779	0004321	0775	14871														
		08S	1200	0409	34995	2779			14871														
		STD	1300	0389	3497	2779	0004361	0818	14879														
		08S	1300	0389	34968	2779			14879														
		STD	1400	0380	3497	2781	0004279	0861	14892														
		08S	1400	0380	34975	2781			14892														
		STD	1500	0381	3498	2781	0004342	0904	14910														
		08S	1500	0381	34980	2781			14910														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT			
318039	EV		41400N	050200W	150	10	05	21	061	1968	002	10211		4096	1	17	2	3		X4	0	3	0172		
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		CRY BULB	WET BULB	VIS. CODE												
						OT	SD	09	SO9	047	083	083	6	37											

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -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	0864	3381	2626	0017659	0000	14838								
061		OBS	0000	0864	33810	2626			14838								
		OBS	0005	0868	33861	2630			14841								
		STD	0010	1088	3482	2667	0013799	0015	14935								
003		OBS	0010	1088	34816	2667			14935								
		STD	0020	1290	3550	2682	0012483	0028	15015								
		OBS	0020	1290	35496	2682			15015								
		OBS	0025	1331	35616	2682			15031								
		STD	0030	1350	3568	2683	0012323	0041	15039								
		OBS	0030	1350	35680	2683			15039								
		STD	0050	1380	3574	2682	0012572	0066	15053								
		OBS	0050	1380	35736	2682			15053								
		STD	0075	1376	3573	2682	0012635	0097	15055								
		OBS	0075	1376	35726	2682			15055								
		STD	0100	1320	3564	2687	0012218	0128	15040								
		OBS	0100	1320	35641	2687			15040								
		STD	0125	1287	3557	2688	0012171	0159	15032								
		OBS	0125	1287	35569	2688			15032								
		STD	0150	1233	3544	2688	0012170	0189	15016								
		OBS	0150	1233	35438	2688			15016								
		STD	0200	1206	3544	2693	0011813	0249	15015								
		OBS	0200	1206	35436	2693			15015								
		OBS	0230	1228	35476	2692			15028								
		STD	0250	1227	3542	2688	0012455	0310	15030								
		OBS	0250	1227	35420	2688			15030								
		STD	0300	0972	3507	2707	0010647	0368	14944								
		OBS	0300	0972	35066	2707			14944								
		OBS	0315	0841	35041	2726			14897								
		OBS	0334	0934	35187	2723			14937								
		OBS	0370	0903	35130	2723			14931								
		STD	0400	0773	3490	2725	0008960	0466	14883								
		OBS	0400	0773	34898	2725			14883								
		OBS	0435	0564	34696	2738			14804								
		OBS	0457	0563	34775	2744			14808								
		OBS	0470	0536	34796	2749			14800								
		OBS	0490	0572	34886	2752			14819								
		STD	0500	0566	3488	2752	0006420	0543	14818								
		OBS	0500	0566	34876	2752			14818								
		OBS	0540	0502	34834	2756			14798								
		STD	0600	0498	3490	2762	0005499	0602	14807								
		OBS	0600	0498	34901	2762			14807								
		STD	0700	0498	3498	2768	0005062	0655	14824								
		OBS	0700	0498	34976	2768			14824								
		STD	0800	0474	3497	2770	0004910	0705	14831								
		OBS	0800	0474	34971	2770			14831								
		STD	0900	0444	3496	2773	0004751	0753	14835								
		OBS	0900	0444	34956	2773			14835								
		OBS	0930	0446	34981	2774			14841								
		OBS	0950	0471	35016	2774			14855								
		STD	1000	0472	3502	2774	0004760	0801	14864								
		OBS	1000	0472	35018	2774			14864								
		STD	1100	0453	3501	2776	0004695	0848	14873								
		OBS	1100	0453	35008	2776			14873								
		STD	1200	0436	3500	2777	0004618	0894	14883								
		OBS	1200	0436	35002	2777			14883								
		STD	1300	0422	3499	2778	0004586	0941	14893								
		OBS	1300	0422	34995	2778			14893								
		STD	1400	0407	3497	2778	0004650	0987	14904								
		OBS	1400	0407	34972	2778			14904								
		STD	1500	0406	3498	2778	0004703	1033	14920								
		OBS	1500	0406	34976	2778			14920								

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

318039	EV	48200N	046100W		149	86	05	23	047	1968	002	10212	1189	1	28	5	3		X2	0	3	0173
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
					DT	SD	Z8	S30	020	017	017	6	21									

MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ M. $\pm 10^3$	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	$\frac{1}{^\circ\text{C}}$
047		STD	0000	0226	3372	2695	0011180	0000	14576								
		OBS	0000	0226	33717	2695			14576								
		STD	0010	0217	3373	2697	0011012	0011	14574								
002		OBS	0010	0217	33731	2697			14574								
		STD	0020	0200	3383	2705	0010165	0021	14570								
		OBS	0020	0200	33826	2705			14570								
		OBS	0025	0199	33895	2711			14571								
		STD	0030	0192	3396	2717	0009111	0031	14570								
		OBS	0030	0192	33958	2717			14570								
		OBS	0040	0177	34097	2729			14567								
		STD	0050	0218	3433	2745	0006476	0046	14590								
		OBS	0050	0218	34333	2745			14590								
		STD	0075	0243	3441	2749	0006078	0062	14606								
		OBS	0075	0243	34414	2749			14606								
		STD	0100	0295	3453	2754	0005618	0077	14634								
		OBS	0100	0295	34535	2754			14634								
		STD	0125	0326	3464	2760	0005113	0090	14653								
		OBS	0125	0326	34642	2760			14653								
		STD	0150	0358	3470	2761	0004982	0103	14672								
		OBS	0150	0358	34702	2761			14672								
		STD	0200	0398	3481	2766	0004622	0127	14698								
		OBS	0200	0398	34810	2766			14698								
		STD	0250	0417	3486	2768	0004501	0150	14715								
		OBS	0250	0417	34860	2768			14715								
		STD	0300	0438	3491	2770	0004396	0172	14733								
		OBS	0300	0438	34911	2770			14733								
		STD	0400	0447	3495	2771	0004330	0215	14753								
		OBS	0400	0447	34947	2771			14753								
		STD	0500	0435	3495	2773	0004297	0259	14765								
		OBS	0500	0435	34948	2773			14765								
		STD	0600	0417	3494	2774	0004249	0301	14774								
		OBS	0600	0417	34940	2774			14774								
		STD	0700	0397	3493	2776	0004153	0343	14782								
		OBS	0700	0397	34935	2776			14782								
		STD	0800	0388	3493	2777	0004140	0385	14795								
		OBS	0800	0388	34935	2777			14795								
		STD	0900	0377	3493	2778	0004100	0426	14807								
		OBS	0900	0377	34935	2778			14807								
		STD	1000	0375	3493	2778	0004165	0467	14823								
		OBS	1000	0375	34935	2778			14823								

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH M	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	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		48020N	046090W		149	86	05	23	067	1968	002	10213		1	28	5	3		X1	0	13	0174
		WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	CIR.	SPEED OR FORCE		DRY BULB	WET BULB															
		DT	SD	28	S30	027	017	017	6	21													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S CC						
		STD	0000	0172	3331	2667	0013848	0000	14547														
067		OBS	0000	0172	33314	2667			14547														
		STD	0010	0171	3332	2667	0013823	0013	14548														
		OBS	0010	0171	33316	2667			14548														
		STD	0020	0166	3333	2668	0013671	0027	14548														
002		OBS	0020	0166	33332	2668			14548														
		OBS	0025	0166	33410	2675			14550														
		STD	0030	0084	3343	2682	0012382	0040	14514														
		OBS	0030	0084	33434	2682			14514														
		STD	0050	0217	3411	2727	0008128	0061	14586														
		OBS	0050	0217	34114	2727			14586														
		STD	0075	0258	3438	2745	0006423	0079	14612														
		OBS	0075	0258	34384	2745			14612														
		STD	0100	0292	3455	2756	0005446	0094	14633														
		OBS	0100	0292	34554	2756			14633														
		STD	0125	0377	3471	2760	0005057	0107	14676														
		OBS	0125	0377	34714	2760			14676														
		STD	0150	0398	3477	2763	0004844	0119	14689														
		OBS	0150	0398	34774	2763			14689														
		STD	0200	0436	3486	2766	0004640	0143	14715														
		OBS	0200	0436	34861	2766			14715														
		STD	0250	0452	3490	2768	0004550	0166	14730														
		OBS	0250	0452	34904	2768			14730														
		STD	0300	0451	3493	2770	0004370	0188	14738														
		OBS	0300	0451	34934	2770			14738														
		STD	0400	0429	3492	2772	0004304	0232	14746														
		OBS	0400	0429	34924	2772			14746														
		STD	0500	0426	3494	2773	0004277	0274	14761														
		OBS	0500	0426	34936	2773			14761														
		STD	0600	0409	3493	2775	0004202	0317	14771														
		OBS	0600	0409	34934	2775			14771														
		STD	0700	0392	3492	2775	0004198	0359	14780														
		OBS	0700	0392	34921	2775			14780														
		STD	0800	0383	3492	2776	0004175	0401	14793														
		OBS	0800	0383	34923	2776			14793														
		STD	0900	0375	3492	2777	0004202	0443	14806														
		OBS	0900	0375	34918	2777			14806														
		STD	1000	0366	3493	2779	0004063	0484	14819														
		OBS	1000	0366	34934	2779			14819														
		OBS	1040	0365	34941	2790			14825														

WATER		WIND		BARO-METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY GULB	WET GULB			
0T	SD	27	S30	044	017	017	5	22	

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		47020N	046065W		149	76	05	23	130	1968	002	10215	0333	1	27	4	4		X2	0	3	0176
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	DRY BULB		WET BULB															
DT		SD		27		S28		064		033		033		6		19							
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	D ₂ ml/l	PD 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	0837	3446	2682		0012419		0000		14836											
130		OBS	0000	0837	34462	2682						14836											
		STD	0010	0837	3446	2682		0012437		0012		14838											
		OBS	0010	0837	34462	2682						14838											
		STD	0020	0837	3446	2682		0012465		0024		14840											
001		OBS	0020	0837	34461	2682						14840											
		OBS	0025	0837	34462	2682						14840											
		STD	0030	0837	3446	2682		0012465		0037		14841											
		OBS	0030	0837	34463	2682						14841											
		STD	0050	0838	3448	2683		0012411		0062		14845											
		OBS	0050	0838	34477	2683						14845											
		STD	0075	0847	3452	2685		0012260		0093		14853											
		OBS	0075	0847	34522	2685						14853											
		OBS	0080	0856	34552	2686						14858											
		STD	0100	0857	3474	2700		0010837		0121		14864											
		OBS	0100	0857	34740	2700						14864											
		STD	0125	0856	3486	2710		0009946		0147		14869											
		OBS	0125	0856	34865	2710						14869											
		OBS	0135	0855	34847	2709						14870											
		STD	0150	0776	3480	2718		0009265		0171		14842											
		OBS	0150	0776	34805	2718						14842											
		OBS	0194	0575	34612	2730						14767											
		STD	0200	0575	3462	2731		0008028		0215		14769											
		OBS	0200	0575	34622	2731						14769											
		OBS	0207	0576	34650	2733						14771											
		OBS	0215	0539	34652	2737						14757											
		OBS	0230	0571	34738	2740						14773											
		STD	0250	0557	3474	2742		0006977		0252		14771											
		OBS	0250	0557	34742	2742						14771											
		STD	0300	0496	3489	2762		0005192		0283		14756											
		OBS	0300	0496	34893	2762						14756											

REFERENCE	IO. NO.	SNIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
						WATER COLOR CODE	WIND TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	AIR TEMP. °C DRY RULB		WET RULB	VIS. CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
318039	EV		47000N	046450W		149	76	05	23	239	1968	002	10216		0860	1	28	3	3		X2	0	3		0177

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				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	

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ C DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C
014		STD	0000	0113	3285	2634	0016962	0000	14515								
		OBS	0000	0113	32855	2634			14515								
		STD	0010	0113	3285	2634	0016961	0017	14516								
002		OBS	0010	0113	32855	2634			14516								
		STD	0020	0080	3308	2654	0015077	0033	14506								
		OBS	0020	0080	33078	2654			14506								
		OBS	0025	0067	33140	2659			14502								
		STD	0030	0061	3315	2661	0014415	0047	14500								
		OBS	0030	0061	33151	2661			14500								
		STD	0050	0049	3321	2666	0013886	0076	14499								
		OBS	0050	0049	33211	2666			14499								
		OBS	0061	0022	33535	2694			14493								
		STD	0075	0069	3376	2709	0009814	0105	14520								
		OBS	0075	0069	33761	2709			14520								
		STD	0100	0086	3393	2722	0008628	0128	14534								
		OBS	0100	0086	33930	2722			14534								
		STD	0125	0171	3417	2735	0007378	0148	14579								
		OBS	0125	0171	34171	2735			14579								
		STD	0150	0217	3430	2742	0006783	0166	14605								
		OBS	0150	0217	34298	2742			14605								
		OBS	0180	0232	34460	2754			14619								
		STD	0200	0311	3458	2756	0005469	0197	14658								
		OBS	0200	0311	34584	2756			14658								
		STD	0250	0380	3475	2763	0004937	0223	14698								
		OBS	0250	0380	34750	2763			14698								
		OBS	0265	0408	34783	2763			14713								
		STD	0300	0391	3478	2765	0004837	0247	14711								
		OBS	0300	0391	34784	2765			14711								
	STD	0400	0460	3494	2770	0004513	0294	14759									
	OBS	0400	0460	34943	2770			14759									
	STD	0500	0460	3495	2770	0004560	0339	14775									
	OBS	0500	0460	34951	2770			14775									
	STD	0600	0442	3494	2772	0004499	0384	14784									
	OBS	0600	0442	34945	2772			14784									
	STD	0700	0410	3491	2773	0004478	0429	14787									
	OBS	0700	0410	34911	2773			14787									
	STD	0800	0406	3493	2775	0004379	0474	14802									
	OBS	0800	0406	34931	2775			14802									
	STD	0900	0404	3494	2775	0004407	0518	14818									
	OBS	0900	0404	34937	2775			14818									
	OBS	0925	0403	34931	2775			14822									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSCEN 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	AMT				
318039	EV		47000N	047150W	149	77	05	24	038	1968	002	10218	0914	1	27	3	2		X2	0	3		0179
		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															
		OT	SO	27	S14	054	017	017	6	24													
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - σt/l	TOTAL-P μg - σt/l	NO ₂ -N μg - σt/l	NO ₃ -N μg - σt/l	SiO ₄ -Si μg - σt/l	pH	Σ C						
		STD	0000	0087	3290	2639	0016491	0000	14503														
	038	OBS	0000	0087	32897	2639			14503														
		STD	0010	0097	3292	2640	0016336	0016	14510														
		OBS	0010	0097	32925	2640			14510														
	002	OBS	0015	0111	32960	2642			14518														
		STD	0020	0067	3300	2648	0015592	0032	14499														
		OBS	0020	0067	33000	2648			14499														
		OBS	0025	0031	33040	2653			14484														
		STD	0030	0050	3309	2656	0014821	0047	14494														
		OBS	0030	0050	33090	2656			14494														
		STD	0050	0097	3333	2673	0013251	0075	14522														
		OBS	0050	0097	33330	2673			14522														
		OBS	0061	0051	33710	2706			14508														
		STD	0075	0092	3389	2718	0008971	0103	14532														
		OBS	0075	0092	33890	2718			14532														
		OBS	0094	0096	34090	2734			14539														
		STD	0100	0125	3412	2734	0007466	0124	14554														
		OBS	0100	0125	34116	2734			14554														
		STD	0125	0212	3433	2745	0006491	0141	14599														
		OBS	0125	0212	34330	2745			14599														
		STD	0150	0250	3439	2746	0006355	0157	14621														
		OBS	0150	0250	34390	2746			14621														
		OBS	0199	0347	34650	2758			14674														
		STD	0200	0396	3471	2758	0005349	0186	14696														
		OBS	0200	0396	34710	2758			14696														
		STD	0250	0490	3485	2759	0005381	0213	14745														
		OBS	0250	0490	34850	2759			14745														
		OBS	0280	0409	34739	2759			14715														
		STD	0300	0417	3478	2762	0005117	0239	14722														
		OBS	0300	0417	34784	2762			14722														
		STD	0400	0457	3492	2768	0004653	0288	14757														
		OBS	0400	0457	34919	2768			14757														
		STD	0500	0437	3493	2771	0004451	0334	14766														
		OBS	0500	0437	34930	2771			14766														
		STD	0600	0420	3493	2773	0004343	0378	14775														
		OBS	0600	0420	34932	2773			14775														
		STD	0700	0415	3494	2774	0004317	0421	14790														
		OBS	0700	0415	34941	2774			14790														
		STD	0800	0415	3494	2775	0004397	0465	14806														
		OBS	0800	0415	34943	2775			14806														
		OBS	0840	0415	34940	2774			14813														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SHIP INDEX	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA	TYPE		AMT		
318039		EV	46590N	04729W		149	67	05	24	066	1968	002	10219	0220	1	30	4	3		X2	0 3		0180
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
		DT	SD	28	S15	061	017	017	6	15													
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ θ 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	0108	3271	2622	0018039	0000	14510														
	066	OBS	0000	0108	32709	2622			14510														
		STD	0010	0108	3271	2622	0018039	0018	14512														
		OBS	0010	0108	32709	2622			14512														
	001	STD	0020	0107	3271	2622	0018038	0036	14513														
		OBS	0020	0107	32709	2622			14513														
		OBS	0025	0105	32709	2623			14513														
		STD	0030	0103	3271	2623	0018010	0054	14513														
		OBS	0030	0103	32709	2623			14513														
		OBS	0040	0093	32719	2624			14510														
		STD	0050	-0042	3277	2635	0016839	0089	14451														
		OBS	0050	-0042	32769	2635			14451														
		OBS	0058	-0096	32929	2650			14429														
		OBS	0065	-0097	33049	2659			14432														
		OBS	0070	-0030	33109	2662			14464														
		STD	0075	-0048	3321	2671	0013410	0126	14458														
		OBS	0075	-0048	33213	2671			14458														
		STD	0100	-0004	3370	2708	0009911	0155	14489														
		OBS	0100	-0004	33697	2708			14489														
		STD	0125	0088	3399	2726	0008198	0178	14539														
		OBS	0125	0088	33989	2726			14539														
		STD	0150	0163	3432	2748	0006212	0196	14582														
		OBS	0150	0163	34318	2748			14582														
		OBS	0190	0277	34439	2748			14640														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SHIP INDEX	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	TYPE		AMT			
						DT	SD	28	S18	047											017		017
318039		EV	46590N	047440W		149	67	05	24	078	1968	002	10220	0174	1	30	4	2		X2	0 3	0181	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						DT	SD	28	S18	047		017	017	6	12								
MESSENGER TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ θ 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	Si O ₄ -Si μg - at/l	pH	S C			
			STD	0000	0115	3274	2625		0017822		0000	14514											
	078		OBS	0000	0115	32743	2625					14514											
			STD	0010	0115	3274	2625		0017822		0017	14516											
			OBS	0010	0115	32743	2625					14516											
	001		STD	0020	0115	3274	2625		0017821		0035	14517											
			OBS	0020	0115	32743	2625					14517											
			OBS	0025	0115	32743	2625					14518											
			STD	0030	0115	3274	2625		0017821		0053	14519											
			OBS	0030	0115	32743	2625					14519											
			STD	0050	0115	3274	2625		0017820		0089	14522											
			OBS	0050	0115	32743	2625					14522											
			OBS	0060	0115	32743	2625					14524											
			STD	0075	0097	3275	2626		0017689		0133	14518											
			OBS	0075	0097	32746	2626					14518											
			STD	0100	0017	3277	2632		0017095		0177	14486											
			OBS	0100	0017	32767	2632					14486											
			OBS	0118	-0137	33008	2657					14421											
			STD	0125	-0139	3303	2659		0014458		0216	14421											
			OBS	0125	-0139	33031	2659					14421											
			STD	0150	-0144	3311	2666		0013834		0251	14424											
			OBS	0150	-0144	33108	2666					14424											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
318039	EV		46590N	047590W		149	67	05	24	091	1968	002	10221	0137	1	30	6	2		X2	0	3		0182
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB												
						DT	SD	29	520		022	022	6	11										
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 - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	STUD						
		STD	0000	0086	3273	2625	0017758		0000	14501														
	091	OBS	0000	0086	32730	2625				14501														
		STD	0010	0086	3273	2625	0017757		0017	14502														
		OBS	0010	0086	32730	2625				14502														
		STD	0020	0086	3273	2625	0017756		0035	14504														
	001	OBS	0020	0086	32730	2625				14504														
		OBS	0025	0086	32730	2625				14505														
		STD	0030	0075	3273	2626	0017655		0053	14501														
		OBS	0030	0075	32735	2626				14501														
		OBS	0035	0024	32747	2630				14478														
		STD	0050	0017	3283	2637	0016658		0087	14479														
		OBS	0050	0017	32827	2637				14479														
		OBS	0063	-0118	33047	2660				14421														
		STD	0075	-0083	3328	2677	0012788		0124	14443														
		OBS	0075	-0083	33277	2677				14443														
		STD	0100	0020	3355	2695	0011136		0154	14498														
		OBS	0100	0020	33552	2695				14498														
		OBS	0110	0024	33557	2695				14502														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME IGMT			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			
318039	EV		46590N	048135W		149	68	05	24	104	1968	002	10222		0117	1	30	8	3		X2	0 3		0183
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB												
						DT	SD	30	518	064	039	039	7	11										
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 - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	STUD					
		STD	0000	0135	3273	2623		0018012		0000	14523													
	104	OBS	0000	0135	32734	2623					14523													
		STD	0010	0135	3273	2623		0018021		0018	14524													
		OBS	0010	0135	32733	2623					14524													
		STD	0020	0135	3273	2623		0018012		0036	14526													
	001	OBS	0020	0135	32734	2623					14526													
		OBS	0025	0135	32734	2623					14527													
		STD	0030	0135	3273	2623		0018013		0054	14528													
		OBS	0030	0135	32734	2623					14528													
		OBS	0048	0129	32741	2624					14528													
		STD	0050	0055	3275	2628		0017450		0089	14495													
		OBS	0050	0055	32748	2628					14495													
		OBS	0056	-0046	32826	2639					14451													
		OBS	0070	-0024	33266	2674					14469													
		STD	0075	-0005	3329	2675		0013031		0127	14479													
		OBS	0075	-0005	33288	2675					14479													
		STD	0100	-0004	3329	2675		0012988		0160	14484													
		OBS	0100	-0004	33293	2675					14484													

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH ADJUST	MARSONE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TD BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD TYPES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			CIR.	HGT	PER	SEA		TYPE	AMT		
318039		EV	44260N	049030W		149	49	05	24	235	1968	002	10224	0476	1	25	2	2		X0	0	3	0185		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. COEF	ND, OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	SD	26	S16	122	044	044	7	24											
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-L-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH								
		STD	0000	0156	3278	2625	0017758		0000	14533															
	235	OBS	0000	0156	32785	2625				14533															
		STD	0010	0129	3279	2628	0017541		0017	14522															
		OBS	0010	0129	32792	2628				14522															
		STD	0020	0048	3282	2635	0016831		0034	14488															
	002	OBS	0020	0048	32825	2635				14488															
		OBS	0025	0048	32847	2637				14489															
		STD	0030	0048	3286	2638	0016585		0051	14490															
		OBS	0030	0048	32857	2638				14490															
		STD	0050	-0009	3293	2646	0015768		0083	14468															
		OBS	0050	-0009	32928	2646				14468															
		OBS	0052	-0026	32949	2649				14461															
		STD	0075	0002	3357	2698	0010883		0117	14486															
		OBS	0075	0002	33573	2698				14486															
		STD	0100	0136	3381	2709	0009823		0143	14554															
		OBS	0100	0136	33815	2709				14554															
		OBS	0115	0108	33958	2722				14546															
		STD	0125	0124	3413	2735	0007399		0164	14558															
		OBS	0125	0124	34125	2735				14558															
		OBS	0135	0196	34170	2733				14592															
		STD	0150	0196	3417	2733	0007613		0183	14594															
		OBS	0150	0196	34166	2733				14594															
		OBS	0160	0196	34205	2736				14596															
		STD	0200	0263	3434	2742	0006830		0219	14634															
		OBS	0200	0263	34345	2742				14634															
		OBS	0242	0316	34435	2744				14665															
		STD	0250	0397	3460	2750	0006197		0252	14703															
		OBS	0250	0397	34605	2750				14703															
		OBS	0253	0355	34528	2748				14685															
		OBS	0262	0482	34755	2752				14743															
		OBS	0280	0494	34771	2752				14751															
		OBS	0290	0395	34657	2754				14710															
		STD	0300	0381	3467	2756	0005611		0281	14705															
		OBS	0300	0381	34667	2756				14705															
		STD	0400	0380	3469	2758	0005528		0337	14722															
		OBS	0400	0380	34688	2758				14722															
		OBS	0420	0381	34691	2758				14726															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDIC	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER										
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER		DIR.		HGT	PER		SEA		TYPE	AMT						
318039	EV	44225N	048460W	149	48	05	25	008	1968	002	10225	2177	1	25	2	2	XO	0	3			0186										
		WATER		WIND				AIR TEMP. °C																								
		COLOR CODE	TRANS. IMI	DIR.	SPEED OF FORCE	BARO- METER mbal		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS																
		0T	SD	26	S16	098		044		044		7		23																		

318039	EV	44225N	048460W	149	48	05	25	008	1968	002	10225	2177	1	25	2	2	X0	0	3	0186
						WATER		WIND		BARO-METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. IMT	DIR.	SPEED OF FORCE	METER (mbal)	DRY BULB	WET BULB								
						DT	SD	26	516	098	044	044	7							

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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C
		STD	0000	0301	3298	2629	0017360	0000	14599								
008		OBS	0000	0301	32978	2629			14599								
		OBS	0001	0250	32940	2631			14577								
		STD	0010	0328	3330	2653	0015175	0016	14617								
002		OBS	0010	0328	33299	2653			14617								
		STD	0020	0276	3320	2649	0015486	0031	14595								
		OBS	0020	0276	33200	2649			14595								
		OBS	0025	0216	33181	2653			14569								
		STD	0030	0191	3320	2656	0014851	0046	14559								
		OBS	0030	0191	33200	2656			14559								
		STD	0050	0027	3350	2690	0011570	0073	14493								
		OBS	0050	0027	33500	2690			14493								
		STD	0075	0237	3391	2710	0009794	0099	14596								
		OBS	0075	0237	33915	2710			14596								
		STD	0100	0223	3416	2730	0007844	0121	14598								
		OBS	0100	0223	34160	2730			14598								
		OBS	0104	0262	34240	2733			14616								
		STD	0125	0223	3428	2740	0006954	0140	14603								
		OBS	0125	0223	34280	2740			14603								
		STD	0150	0316	3449	2749	0006164	0156	14651								
		OBS	0150	0316	34492	2749			14651								
		STD	0200	0341	3458	2753	0005781	0186	14671								
		OBS	0200	0341	34580	2753			14671								
		STD	0250	0417	3481	2764	0004870	0213	14714								
		OBS	0250	0417	34810	2764			14714								
		STD	0300	0439	3487	2766	0004738	0237	14733								
		OBS	0300	0439	34867	2766			14733								
		STD	0400	0454	3493	2769	0004561	0283	14756								
		OBS	0400	0454	34927	2769			14756								
		STD	0500	0430	3493	2772	0004389	0328	14763								
		OBS	0500	0430	34927	2772			14763								
		STD	0600	0409	3492	2773	0004309	0372	14770								
		OBS	0600	0409	34920	2773			14770								
		STD	0700	0395	3492	2775	0004274	0415	14781								
		OBS	0700	0395	34916	2775			14781								
		STD	0800	0382	3491	2776	0004226	0457	14792								
		OBS	0800	0382	34914	2776			14792								
		STD	0900	0376	3491	2776	0004266	0500	14806								
		OBS	0900	0376	34911	2776			14806								
		STD	1000	0376	3492	2777	0004301	0542	14823								
		OBS	1000	0376	34919	2777			14823								
		STD	1100	0370	3491	2777	0004336	0586	14837								
		OBS	1100	0370	34915	2777			14837								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	UNITS 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
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT.	PER.	SEA	TYPE		AMT		
318039	EV	44190N	048300W	149	48	05	25	023	1968	002	10226	3234	1	25	2	4				X0	0	3	0187	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB												
						DT	SD	25	S16	125	039	039	7	28										

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	Si D ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0211	3282	2624	0017840	0000	14558								
023		OBS	0000	0211	32823	2624			14558								
		STD	0010	0225	3289	2629	0017453	0017	14566								
		OBS	0010	0225	32888	2629			14566								
		STD	0020	0162	3290	2634	0016901	0034	14540								
003		OBS	0020	0162	32903	2634			14540								
		OBS	0025	0263	33003	2635			14587								
		STD	0030	0246	3304	2639	0016483	0051	14581								
		OBS	0030	0246	33038	2639			14581								
		STD	0050	0035	3326	2671	0013423	0081	14493								
		OBS	0050	0035	33263	2671			14493								
		OBS	0055	-0016	33303	2677			14471								
		STD	0075	0049	3382	2715	0009277	0109	14511								
		OBS	0075	0049	33816	2715			14511								
		STD	0100	0176	3414	2733	0007615	0130	14577								
		OBS	0100	0176	34143	2733			14577								
		OBS	0110	0338	34324	2733			14651								
		STD	0125	0355	3441	2739	0007114	0149	14662								
		OBS	0125	0355	34412	2739			14662								
		STD	0150	0404	3458	2747	0006341	0166	14689								
		OBS	0150	0404	34583	2747			14689								
		OBS	0191	0509	34773	2751			14742								
		STD	0200	0493	3474	2750	0006198	0197	14737								
		OBS	0200	0493	34738	2750			14737								
		OBS	0205	0475	34738	2752			14730								
		OBS	0220	0515	34833	2755			14750								
		STD	0250	0476	3483	2759	0005346	0226	14739								
		OBS	0250	0476	34833	2759			14739								
		OBS	0260	0476	34853	2761			14741								
		STD	0300	0502	3494	2764	0004927	0252	14760								
		OBS	0300	0502	34937	2764			14760								
		STD	0400	0483	3496	2769	0004634	0299	14769								
		OBS	0400	0483	34962	2769			14769								
		STD	0500	0489	3502	2773	0004371	0344	14788								
		OBS	0500	0489	35023	2773			14788								
		STD	0600	0441	3496	2773	0004355	0388	14784								
		OBS	0600	0441	34963	2773			14784								
		STD	0700	0411	3496	2777	0004105	0430	14788								
		OBS	0700	0411	34963	2777			14788								
		STD	0800	0410	3496	2777	0004209	0472	14804								
		OBS	0800	0410	34961	2777			14804								
		STD	0900	0399	3496	2778	0004166	0514	14817								
		OBS	0900	0399	34962	2778			14817								
		STD	1000	0395	3496	2778	0004222	0556	14831								
		OBS	1000	0395	34960	2778			14831								
		STD	1100	0385	3496	2779	0004216	0598	14844								
		OBS	1100	0385	34956	2779			14844								
		OBS	1120	0382	34958	2779			14846								

REFERENCE STATION NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV	44160N	048140W		149	48	05	25	038	1968	002	10227	3749	1	25	2	3		X0	0 3	0188	
					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											
					DT	SD	25	516		050	050											
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	0329	3298	2627	0017568		0000	14611												
	038	OBS	0000	0329	32982	2627				14611												
		STD	0010	0329	3298	2627	0017574		0017	14613												
		OBS	0010	0329	32982	2627				14613												
		STD	0020	0323	3312	2639	0016475		0034	14614												
	003	OBS	0020	0323	33122	2639				14614												
		OBS	0025	0315	33132	2640				14611												
		STD	0030	0311	3314	2641	0016235		0051	14610												
		OBS	0030	0311	33140	2641				14610												
		STD	0050	0104	3346	2683	0012294		0079	14527												
		OBS	0050	0104	33462	2683				14527												
		OBS	0059	0090	33788	2710				14527												
		STD	0075	0129	3394	2720	0008807		0105	14549												
		OBS	0075	0129	33942	2720				14549												
		STD	0100	0176	3420	2737	0007173		0125	14578												
		OBS	0100	0176	34202	2737				14578												
		STD	0125	0279	3454	2756	0005440		0141	14631												
		OBS	0125	0279	34542	2756				14631												
		OBS	0130	0415	34722	2757				14693												
		STD	0150	0458	3480	2759	0005271		0155	14715												
		OBS	0150	0458	34802	2759				14715												
		OBS	0185	0524	34882	2757				14749												
		STD	0200	0496	3487	2760	0005263		0181	14740												
		OBS	0200	0496	34867	2760				14740												
		STD	0250	0495	3492	2764	0004944		0206	14748												
		STD	0300	0486	3494	2767	0004709		0231	14753												
		OBS	0300	0486	34942	2767				14753												
		STD	0400	0446	3492	2770	0004517		0277	14753												
		OBS	0400	0446	34921	2770				14753												
		STD	0500	0417	3492	2772	0004311		0321	14757												
		OBS	0500	0417	34918	2772				14757												
		STD	0600	0403	3493	2775	0004175		0363	14768												
		OBS	0600	0403	34929	2775				14768												
		STD	0700	0403	3493	2775	0004261		0405	14784												
		OBS	0700	0403	34930	2775				14784												
		STD	0800	0392	3493	2776	0004245		0448	14796												
		OBS	0800	0392	34927	2776				14796												
		STD	0900	0383	3493	2777	0004184		0490	14809												
		OBS	0900	0383	34933	2777				14809												
		STD	1000	0382	3493	2777	0004306		0533	14826												
		OBS	1000	0382	34927	2777				14826												
		STD	1100	0380	3494	2778	0004265		0575	14842												
		OBS	1100	0380	34942	2778				14842												
		OBS	1150	0378	34942	2778				14849												

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH IN METERS	HARDEN 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		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318039		EV	44130N	047590W		149	47	05	25	050	1968	002	10228	3840	1	26	2	3		X0	0	3	0189

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	26	S12	125	050	050	7	22	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SI O ₄ -Si µg - at/l	pH	S C C
		STD	0000	0314	3305	2634	0016916	0000	14606								
	050	OBS	0000	0314	33052	2634			14606								
		STD	0010	0313	3305	2634	0016913	0016	14607								
		OBS	0010	0313	33052	2634			14607								
		STD	0020	0258	3304	2638	0016553	0033	14585								
	003	OBS	0020	0258	33041	2638			14585								
		OBS	0025	0216	33027	2640			14567								
		STD	0040	0167	3306	2647	0015735	0049	14546								
		OBS	0030	0167	33062	2647			14546								
		OBS	0043	0068	33502	2688			14510								
		STD	0050	0116	3376	2706	0010083	0075	14537								
		OBS	0050	0116	33762	2706			14537								
		STD	0075	0163	3408	2728	0008019	0098	14566								
		OBS	0075	0163	34077	2728			14566								
		STD	0100	0230	3434	2744	0006529	0116	14603								
		OBS	0100	0230	34342	2744			14603								
		STD	0125	0296	3450	2751	0005896	0132	14638								
		OBS	0125	0296	34502	2751			14638								
		STD	0150	0386	3467	2756	0005488	0146	14683								
		OBS	0150	0386	34672	2756			14683								
		STD	0200	0461	3481	2759	0005282	0173	14724								
		OBS	0200	0461	34812	2759			14724								
		STD	0250	0464	3491	2767	0004602	0197	14735								
		OBS	0250	0464	34915	2767			14735								
		STD	0300	0475	3492	2766	0004764	0221	14748								
		OBS	0300	0475	34917	2766			14748								
		STD	0400	0458	3493	2769	0004556	0267	14758								
		OBS	0400	0458	34934	2769			14758								
		STD	0500	0420	3493	2772	0004345	0312	14763								
		OBS	0500	0430	34934	2772			14763								
		STD	0600	0416	3492	2773	0004364	0355	14773								
		OBS	0600	0416	34923	2773			14773								
		STD	0700	0409	3494	2775	0004271	0399	14787								
		OBS	0700	0409	34938	2775			14787								
		STD	0800	0402	3493	2775	0004318	0442	14801								
		OBS	0800	0402	34933	2775			14801								
		STD	0900	0395	3493	2776	0004335	0485	14814								
		OBS	0900	0395	34932	2776			14814								
		STD	1000	0390	3494	2777	0004334	0528	14829								
		OBS	1000	0390	34937	2777			14829								
		STD	1100	0390	3494	2777	0004380	0572	14846								
		OBS	1100	0390	34942	2777			14846								

REFERENCE ID. NO.	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'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
318039	EV	44105N	047440W	149	47	05	25	063	1968	002	10229	3968	1	26	2	3		X0	0 3		0190	
					WATER		WIND				AIR TEMP. °C											
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)			DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					DT	SD	26	S12	125			050	050	7	21							
MESSNGR TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T			SPECIFIC VOLUME ANOMALY- σ_t		$\Delta \rho$ 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 $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C		
		STD	0000	0302	3305	2635			0016844		0000	14600										
063		OBS	0000	0302	33048	2635						14600										
		STD	0010	0314	3311	2639			0016469		0016	14608										
		OBS	0010	0314	33111	2639						14608										
		STD	0020	0300	3312	2641			0016274		0033	14604										
002		OBS	0020	0300	33122	2641						14604										
		OBS	0025	0286	33124	2642						14599										
		STD	0030	0256	3313	2645			0015860		0049	14587										
		OBS	0030	0256	33131	2645						14587										
		STD	0050	0095	3372	2704			0010270		0075	14527										
		OBS	0050	0095	33721	2704						14527										
		STD	0075	0136	3406	2729			0007933		0098	14554										
		OBS	0075	0136	34063	2729						14554										
		STD	0100	0228	3426	2738			0007142		0116	14601										
		OBS	0100	0228	34259	2738						14601										
		STD	0125	0296	3450	2751			0005905		0133	14638										
		OBS	0125	0296	34501	2751						14638										
		STD	0150	0361	3464	2756			0005470		0147	14672										
		OBS	0150	0361	34642	2756						14672										
		STD	0200	0468	3490	2765			0004701		0172	14729										
		OBS	0200	0468	34900	2765						14729										
		STD	0250	0468	3491	2767			0004649		0196	14737										
		OBS	0250	0468	34915	2767						14737										
		STD	0300	0469	3490	2765			0004814		0219	14745										
		OBS	0300	0469	34901	2765						14745										
		STD	0400	0446	3493	2770			0004437		0266	14753										
		OBS	0400	0446	34932	2770						14753										
		STD	0500	0416	3491	2772			0004354		0310	14757										
		OBS	0500	0416	34911	2772						14757										
		STD	0600	0397	3491	2774			0004247		0353	14765										
		OBS	0600	0397	34910	2774						14765										
		STD	0700	0389	3491	2775			0004255		0395	14778										
		OBS	0700	0389	34909	2775						14778										
		STD	0800	0383	3492	2776			0004192		0437	14793										
		OBS	0800	0383	34920	2776						14793										
		STD	0900	0378	3492	2777			0004209		0479	14807										
		OBS	0900	0378	34922	2777						14807										
		STD	1000	0378	3493	2777			0004270		0522	14824										
		OBS	1000	0378	34926	2777						14824										
		STD	1100	0374	3493	2778			0004311		0565	14839										
		OBS	1100	0374	34926	2778						14839										

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	OBS. 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
CEN CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039		EV	44060N	047210W	149	47	05	25	080	1968	002	10230	4114	1	23	3	3		X6	0	3	0191	

WATER		WIND		SAR- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	26	S18	132	050	050	2	33	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	STC
		STD	0000	0511	3322	2628	0017550	0000	14691								
	080	OBS	0000	0511	33220	2628			14691								
		STD	0010	0521	3326	2630	0017361	0017	14697								
		OBS	0010	0521	33260	2630			14697								
		STD	0020	0541	3334	2634	0017001	0034	14708								
	002	OBS	0020	0541	33340	2634			14708								
		OBS	0025	0526	33330	2635			14703								
		STD	0030	0496	3327	2633	0017036	0051	14690								
		OBS	0030	0496	33270	2633			14690								
		OBS	0035	0461	33400	2647			14678								
		OBS	0039	0515	33610	2658			14704								
		STD	0050	0481	3390	2685	0012172	0080	14696								
		OBS	0050	0481	33900	2685			14696								
		STD	0075	0708	3460	2711	0009718	0108	14801								
		OBS	0075	0708	34600	2711			14801								
		STD	0100	0708	3465	2715	0009388	0132	14805								
		OBS	0100	0708	34650	2715			14805								
		STD	0125	0661	3460	2718	0009171	0155	14790								
		OBS	0125	0661	34600	2718			14790								
		OBS	0135	0532	34500	2726			14739								
		STD	0150	0625	3470	2730	0008006	0176	14781								
		OBS	0150	0625	34700	2730			14781								
		OBS	0164	0689	34800	2730			14810								
		OBS	0171	0522	34600	2735			14742								
		OBS	0180	0542	34620	2735			14752								
		STD	0200	0450	3448	2734	0007644	0215	14715								
		OBS	0200	0450	34480	2734			14715								
		OBS	0203	0556	34620	2733			14761								
		OBS	0230	0406	34470	2738			14702								
		STD	0250	0522	3471	2744	0006794	0252	14756								
		OBS	0250	0522	34710	2744			14756								
		OBS	0280	0263	34420	2748			14648								
		OBS	0289	0338	34544	2751			14684								
		STD	0300	0316	3456	2754	0005796	0283	14676								
		OBS	0300	0316	34556	2754			14676								
		OBS	0329	0346	34700	2762			14696								
		OBS	0350	0466	34880	2764			14752								
		STD	0400	0478	3491	2765	0004969	0337	14766								
		OBS	0400	0478	34910	2765			14766								
		STD	0500	0449	3492	2769	0004663	0385	14770								
		OBS	0500	0449	34920	2769			14770								
		STD	0600	0422	3494	2774	0004292	0430	14776								
		OBS	0600	0422	34942	2774			14776								
		STD	0700	0409	3494	2775	0004236	0472	14787								
		OBS	0700	0409	34942	2775			14787								
		STD	0800	0396	3493	2776	0004271	0515	14798								
		OBS	0800	0396	34930	2776			14798								
		STD	0900	0396	3494	2777	0004248	0558	14815								
		OBS	0900	0396	34945	2777			14815								
		STD	1000	0396	3495	2778	0004278	0600	14832								
		OBS	1000	0396	34954	2778			14832								
		STD	1100	0390	3496	2779	0004256	0643	14846								
		OBS	1100	0390	34959	2779			14846								

REFERENCE CTRY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					MO	DAT	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
					10"	1"														
318039	EV	44020N	046580W	149	46	05	25	097	1968	002	10231	4206	1	26	2	2		X2	013	0192
				WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
DT	SD	26	518	135	044	044	3		34											
MESSNGR TIME HR 1/10	CAS 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	0896	3394	2632		0017170		0000	14852									
	097	OBS	0000	0896	33940	2632					14852									
		STD	0010	0898	3397	2633		0017017		0017	14855									
		OBS	0010	0898	33967	2633					14855									
		STD	0020	1349	3563	2679		0012684		0031	15036									
	003	OBS	0020	1349	35625	2679					15036									
		OBS	0025	1348	35628	2680					15037									
		STD	0030	1326	3563	2685		0012222		0044	15030									
		OBS	0030	1326	35630	2685					15030									
		STD	0050	1336	3565	2684		0012297		0068	15037									
		OBS	0050	1336	35654	2684					15037									
		STD	0075	1387	3580	2685		0012275		0099	15060									
		OBS	0075	1387	35805	2685					15060									
		OBS	0083	1401	35855	2686					15066									
		STD	0100	1336	3568	2686		0012248		0130	15046									
		OBS	0100	1336	35680	2686					15046									
		STD	0125	1266	3551	2687		0012212		0160	15024									
		OBS	0125	1266	35509	2687					15024									
		STD	0150	1234	3547	2691		0011954		0191	15017									
		OBS	0150	1234	35470	2691					15017									
		OBS	0165	1236	35472	2690					15020									
		STD	0200	1123	3534	2702		0011007		0248	14985									
		OBS	0200	1123	35340	2702					14985									
		OBS	0220	1178	35460	2701					15009									
		STD	0250	1170	3535	2694		0011897		0305	15010									
		OBS	0250	1135P	3526P	2693P														
		OBS	0275	1056	35200	2702					14972									
		STD	0300	0844	3499	2722		0009138		0358	14895									
		OBS	0300	0844	34995	2722					14895									
		OBS	0315	0836	35000	2724					14895									
		OBS	0325	0896	35150	2726					14021									
		STD	0400	0693	3493	2739		0007580		0441	14853									
		OBS	0400	0693	34930	2739					14853									
		OBS	0420	0675	34970	2745					14849									
		OBS	0430	0696	35020	2746					14860									
		STD	0500	0606	3495	2753		0006366		0511	14835									
		OBS	0500	0606	34954	2753					14835									
		STD	0600	0516	3496	2765		0005292		0569	14615									
		OBS	0600	0516	34960	2765					14615									
		OBS	0630	0543	35050	2768					14832									
		OBS	0675	0514	35020	2770					14827									
		STD	0700	0524	3504	2770		0004917		0621	14836									
		OBS	0700	0524	35040	2770					14836									
		OBS	0720	0524	35060	2772					14840									
		OBS	0740	0476	35000	2772					14822									
		STD	0800	0461	3498	2772		0004698		0669	14826									
		OBS	0800	0461	34978	2772					14826									
		STD	0900	0439	3498	2775		0004483		0715	14833									
		OBS	0900	0439	34985	2775					14833									
		STD	1000	0423	3498	2777		0004413		0759	14843									
		OBS	1000	0423	34980	2777					14843									
		STD	1100	0406	3496	2777		0004413		0803	14853									
		OBS	1100	0406	34965	2777					14853									
		OBS	1180	0395	34955	2778					14861									

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

318039	EV	48330N	046130W	149	86	05	30 027	1968	002	10232	1280	1	23	2	2		X2	0	3	0193
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB									

MESSANGER TIME OF HR 1/10	CAS 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
027		STD	0000	0292	3380	2695	0011108	0000	14606								
		OBS	0000	0292	33796	2695			14606								
		STD	0010	0290	3382	2698	0010914	0011	14607								
002		OBS	0010	0290	33820	2698			14607								
		STD	0020	0239	3383	2703	0010393	0021	14587								
		OBS	0020	0239	33835	2703			14587								
		OBS	0025	0199	33910	2712			14571								
		STD	0030	0200	3409	2727	0008136	0030	14575								
		OBS	0030	0200	34095	2727			14575								
		OBS	0044	0203	34170	2733			14580								
		STD	0050	0235	3447	2754	0005540	0044	14599								
		OBS	0050	0235	34474	2754			14599								
		STD	0075	0276	3457	2759	0005173	0058	14622								
		OBS	0075	0276	34570	2759			14622								
		STD	0100	0291	3461	2760	0005022	0070	14633								
		OBS	0100	0291	34609	2760			14633								
		STD	0125	0323	3469	2764	0004698	0082	14652								
		OBS	0125	0323	34693	2764			14652								
		STD	0150	0360	3480	2769	0004272	0094	14674								
		OBS	0150	0360	34800	2769			14674								
		STD	0200	0407	3487	2769	0004293	0115	14703								
		OBS	0200	0407	34867	2769			14703								
		STD	0250	0427	3491	2771	0004247	0136	14720								
		STD	0300	0436	3493	2772	0004197	0158	14732								
		OBS	0300	0436	34934	2772			14732								
		STD	0400	0423	3494	2774	0004119	0199	14743								
		OBS	0400	0423	34940	2774			14743								
		STD	0500	0407	3493	2774	0004120	0240	14753								
		OBS	0500	0407	34929	2774			14753								
		STD	0600	0389	3492	2776	0004083	0281	14762								
		OBS	0600	0389	34920	2776			14762								
		STD	0700	0377	3492	2777	0004021	0322	14774								
		OBS	0700	0377	34922	2777			14774								
		STD	0800	0369	3492	2778	0004023	0362	14787								
		OBS	0800	0369	34921	2778			14787								
		STD	0900	0362	3493	2779	0003978	0402	14801								
		OBS	0900	0362	34928	2779			14801								
		STD	1000	0357	3493	2780	0003962	0442	14815								
		OBS	1000	0357	34934	2780			14815								
		STD	1100	0351	3494	2781	0003931	0481	14829								
		OBS	1100	0351	34940	2781			14829								
		OBS	1145	0346	34940	2781			14835								
		OBS	1190	0346	34941	2782			14842								

REFERENCE NO. ID.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT DUE TO	M/RSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
18039	EV	48190N	046100W		149	86	05	30	046	1965	002	10233	1280	1	02	2	2		X0	0	3		0194
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
DT	SD	26	509	190	033	033	7	22															
MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0237	3353	2679	0012681	0000	14579														
046		OBS	0000	0237	33530	2679			14579														
		STD	0010	0263	3376	2695	0011149	0011	14595														
		OBS	0010	0263	33760	2695			14595														
		STD	0020	0264	3376	2695	0011163	0023	14597														
002		OBS	0020	0264	33760	2695			14597														
		OBS	0025	0246	33763	2697			14590														
		STD	0030	0210	3377	2700	0010657	0034	14575														
		OBS	0030	0210	33772	2700			14575														
		STD	0050	0197	3407	2725	0008306	0052	14577														
		OBS	0050	0197	34070	2725			14577														
		OBS	0055	0182	34140	2732			14572														
		STD	0075	0237	3445	2752	0005752	0070	14604														
		OBS	0075	0237	34450	2752			14604														
		STD	0100	0303	3465	2763	0004790	0083	14639														
		OBS	0100	0303	34655	2763			14639														
		STD	0125	0326	3469	2764	0004726	0095	14654														
		OBS	0125	0326	34694	2764			14654														
		STD	0150	0349	3474	2765	0004610	0107	14668														
		OBS	0150	0349	34740	2765			14668														
		STD	0200	0394	3484	2769	0004323	0129	14697														
		OBS	0200	0394	34845	2769			14697														
		STD	0250	0415	3488	2770	0004302	0151	14714														
		STD	0300	0428	3491	2770	0004308	0172	14728														
		OBS	0300	0428	34908	2770			14728														
		STD	0400	0430	3492	2771	0004332	0215	14746														
		OBS	0400	0430	34922	2771			14746														
		STD	0500	0406	3492	2774	0004163	0258	14753														
		OBS	0500	0406	34921	2774			14753														
		STD	0600	0394	3492	2775	0004135	0299	14764														
		OBS	0600	0394	34920	2775			14764														
		STD	0700	0382	3492	2776	0004101	0341	14776														
		OBS	0700	0382	34919	2776			14776														
		STD	0800	0375	3492	2777	0004106	0382	14789														
		OBS	0800	0375	34920	2777			14789														
		STD	0900	0369	3492	2778	0004082	0423	14803														
		OBS	0900	0369	34925	2778			14803														
		STD	1000	0362	3493	2779	0004045	0463	14817														
		OBS	1000	0362	34930	2779			14817														
		STD	1100	0360	3493	2780	0004079	0504	14833														
		OBS	1100	0360	34934	2780			14833														
		OBS	1135	0358	34936	2780			14838														

REFERENCE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDIC	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT	
318039	EV		47593N	046100W		149	76	05	30	067	1968	002	10234	1042	1	22	2	3		X2	0	3		0195
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mts	DIR.	SPEED OR FORCE	METER (mbs)		DRY BULB	WET BULB											
						DT	SD	33	S10	166		039	039					7	19					
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - ct/l	TOTAL-P μg - ct/l	NO ₂ -N μg - ct/l	NO ₃ -N μg - ct/l	SiO ₄ -Si μg - ct/l	pH								
		STD	0000	0210	3356	2683	0012247	0000	14567															
067		OBS	0000	0210	33560	2683			14567															
		STD	0010	0178	3360	2689	0011716	0012	14555															
		OBS	0010	0178	33601	2689			14555															
		STD	0020	0215	3371	2695	0011160	0023	14575															
002		OBS	0020	0215	33709	2695			14575															
		OBS	0025	0217	33728	2696			14577															
		STD	0030	0196	3375	2700	0010719	0034	14569															
		OBS	0030	0196	33750	2700			14569															
		OBS	0038	0055	33820	2715			14508															
		STD	0050	0111	3411	2734	0007409	0052	14539															
		OBS	0050	0111	34110	2734			14539															
		STD	0075	0214	3440	2750	0005955	0069	14593															
		OBS	0075	0214	34400	2750			14593															
		STD	0100	0325	3460	2756	0005409	0083	14648															
		OBS	0100	0325	34599	2756			14648															
		STD	0125	0346	3467	2760	0005092	0096	14662															
		OBS	0125	0346	34670	2760			14662															
		STD	0150	0392	3476	2763	0004851	0109	14687															
		OBS	0150	0392	34765	2763			14687															
		STD	0200	0442	3488	2767	0004553	0132	14717															
		OBS	0200	0442	34881	2767			14717															
		STD	0250	0449	3490	2768	0004530	0155	14729															
		STD	0300	0450	3492	2769	0004494	0177	14738															
		OBS	0300	0450	34916	2769			14738															
		STD	0400	0436	3493	2771	0004346	0221	14749															
		OBS	0400	0436	34928	2771			14749															
		STD	0500	0416	3493	2773	0004238	0264	14757															
		OBS	0500	0416	34927	2773			14757															
		STD	0600	0392	3491	2774	0004212	0307	14763															
		OBS	0600	0392	34907	2774			14763															
		STD	0700	0378	3490	2775	0004192	0349	14774															
		OBS	0700	0378	34901	2775			14774															
		STD	0800	0373	3490	2776	0004191	0391	14788															
		OBS	0800	0373	34905	2776			14788															
		STD	0900	0366	3491	2778	0004120	0432	14802															
		OBS	0900	0366	34915	2778			14802															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR.1/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		47400N	046100W	149	76	05	30	085	1968	002	10235	0933	1	22	2	2		X1	03		0196
					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											
					DT	SD	27	503	193	056	050	7	19									
MESSNGR TIME HR 1/10	CST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	ND ₂ -N μg - at/l	ND ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
		STD	0000	0197	3332	2665	0013948	0000	14558													
085		OBS	0000	0197	33323	2665			14558													
		STD	0010	0197	3332	2665	0013950	0013	14560													
		OBS	0010	0197	33323	2665			14560													
		STD	0020	0164	3333	2667	0013790	0027	14556													
002		OBS	0020	0184	33333	2667			14556													
		OBS	0025	0137	33350	2672			14536													
		STD	0030	0111	3347	2683	0012276	0040	14527													
		OBS	0030	0111	33470	2683			14527													
		OBS	0040	0056	33760	2710			14508													
		STD	0050	0107	3406	2731	0007770	0060	14537													
		OBS	0050	0107	34060	2731			14537													
		STD	0075	0175	3430	2745	0006443	0078	14574													
		OBS	0075	0175	34296	2745			14574													
		STD	0100	0264	3450	2754	0005619	0093	14620													
		OBS	0100	0264	34500	2754			14620													
		STD	0125	0305	3460	2758	0005232	0107	14643													
		OBS	0125	0305	34600	2758			14643													
		STD	0150	0339	3467	2761	0005029	0120	14663													
		OBS	0150	0339	34672	2761			14663													
		STD	0200	0397	3482	2767	0004513	0144	14698													
		OBS	0200	0397	34823	2767			14698													
		STD	0250	0431	3488	2768	0004492	0166	14721													
		STD	0300	0450	3492	2769	0004486	0188	14738													
		OBS	0300	0450	34917	2769			14738													
		STD	0400	0446	3493	2770	0004446	0233	14753													
		OBS	0400	0446	34930	2770			14753													
		STD	0500	0427	3493	2772	0004350	0277	14761													
		OBS	0500	0427	34928	2772			14761													
		STD	0600	0400	3491	2774	0004278	0320	14766													
		OBS	0600	0400	34910	2774			14766													
		STD	0700	0386	3490	2774	0004268	0363	14777													
		OBS	0700	0386	34902	2774			14777													
		STD	0800	0375	3490	2776	0004221	0405	14789													
		OBS	0800	0375	34904	2776			14789													
		OBS	0870	0371	34909	2777			14799													

REFERENCE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /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						
					MARSEN SQUARE		STATION TIME (GMT)			CRUISE NO.	STATION NUMBER			OBS.					CLOUD CODES								
					10'	1"	MO	DAY						HR./10	DIR	HGT	PER		SEA	TYPE		AMT					
318039	EV	47180N	046090W		149	76	05	30	107	1968	002	10236	0358	1	22	2	2		X2	0	3		0197				
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB															
					DT	SD	30	S13	203	044	044	7					30										
MESSAGE TIME HR 1/10	CAS OF 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 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	0748	3407	2664		0014093		0000	14797																
107		OBS	0000	0748	34068	2664					14797																
		STD	0010	0749	3407	2664		0014127		0014	14799																
		OBS	0010	0749	34068	2664					14799																
		STD	0020	0746	3407	2664		0014107		0028	14800																
001		OBS	0020	0746	34067	2664					14800																
		OBS	0025	0746	34068	2664					14800																
		STD	0030	0746	3407	2664		0014114		0042	14801																
		OBS	0030	0746	34068	2664					14801																
		STD	0050	0750	3412	2668		0013785		0070	14807																
		OBS	0050	0750	34124	2668					14807																
		OBS	0054	0756	34144	2669					14810																
		OBS	0056	0777	34210	2671					14819																
		OBS	0058	0755	34168	2671					14811																
		OBS	0074	0905	34622	2683					14876																
		STD	0075	0886	3458	2684		0012374		0102	14869																
		OBS	0075	0886	34585	2684					14869																
		OBS	0083	0864	34602	2688					14862																
		OBS	0085	0817	34540	2691					14844																
		OBS	0090	0862	34710	2697					14864																
		STD	0100	0800	3458	2697		0011150		0132	14840																
		OBS	0100	0800	34585	2697					14840																
		OBS	0107	0754	34520	2699					14823																
		OBS	0120	0759	34610	2705					14828																
		STD	0125	0724	3458	2708		0010163		0159	14815																
		OBS	0125	0724	34580	2708					14815																
		OBS	0130	0578	34530	2723					14757																
		STD	0150	0583	3453	2723		0008713		0182	14762																
		OBS	0150	0583	34535	2723					14762																
		OBS	0157	0584	34540	2723					14764																
		OBS	0164	0635	34749	2733					14788																
		OBS	0165	0621	34757	2735					14783																
		OBS	0170	0705	34820	2729					14818																
		OBS	0181	0726	34880	2731					14829																
		OBS	0193	0637	34810	2738					14795																
		STD	0200	0639	3481	2737		0007436		0222	14797																
		OBS	0200	0639	34810	2737					14797																
		STD	0250	0594	3485	2747		0006593		0258	14787																
		OBS	0270	0584	34867	2749					14787																
		STD	0300	0579	3488	2751		0006293		0290	14790																
		OBS	0300	0579	34880	2751					14790																
		OBS	0325	0578	34910	2753					14794																

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	PORT INDIC	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		46573N	046100W		149	66	05	30	126		1968	002	10237	0320	1	26	1	2		X1	0	3	0198
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY RULB	WET RULB												
						DT	SD	27	S11		220	067	061	8	26									
MESSENGR TIME HR 1/10	CAST OF 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	PD4-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 -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC						
		STD	0000	0574	3382	2668	0013722		0000	14725														
127		OBS	0000	0574	33825	2668				14725														
		STD	0010	0566	3383	2669	0013598		0013	14723														
		OBS	0010	0566	33830	2669				14723														
		STD	0020	0563	3383	2670	0013583		0027	14724														
001		OBS	0020	0563	33829	2670				14724														
		OBS	0025	0562	33829	2670				14724														
		STD	0030	0563	3384	2670	0013531		0040	14725														
		OBS	0030	0563	33838	2670				14725														
		OBS	0040	0600	34050	2682				14745														
		STD	0050	0688	3422	2684	0012259		0066	14784														
		OBS	0050	0688	34218	2684				14784														
		OBS	0063	0697	34263	2686				14790														
		OBS	0065	0741	34350	2687				14809														
		OBS	0071	0743	34422	2692				14811														
		OBS	0073	0769	34460	2692				14822														
		STD	0075	0721	3440	2694	0011381		0096	14803														
		OBS	0075	0721	34400	2694				14803														
		OBS	0084	0657	34290	2694				14778														
		OBS	0096	0744	34705	2714				14820														
		STD	0100	0739	3469	2714	0009512		0122	14818														
		OBS	0100	0739	34690	2714				14818														
		STD	0125	0636	3460	2721	0008848		0145	14780														
		OBS	0125	0636	34600	2721				14780														
		STD	0150	0588	3461	2728	0008210		0166	14765														
		OBS	0150	0588	34610	2728				14765														
		OBS	0155	0559	34588	2730				14754														
		OBS	0161	0581	34669	2734				14765														
		OBS	0168	0560	34691	2738				14758														
		OBS	0195	0544	34747	2744				14757														
		STD	0200	0498	3471	2747	0006461		0203	14738														
		OBS	0200	0498	34710	2747				14738														
		OBS	0238	0475	34780	2755				14736														
		STD	0250	0461	3480	2758	0005445		0233	14732														
		OBS	0250	0461	34797	2758				14732														
		OBS	0263	0445	34824	2762				14728														
		OBS	0280	0436	34852	2765				14728														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIFF INCH	MARS OEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT	

318039	EV		46577N	046221W		149	66	05	30	142	1968	002	10238		0358	1	26	3	3		X1	0	3		0199
		WATER		WIND		BARO-		AIR TEMP. °C																	
		COLOR		TRANS.		DIR.		SPEED		METER		DRY		WET		VIS		NO.		SPECIAL					
		CODE		.m				OR		(mb)		BULB		BULB		CODE		OBS.		OBSERVATIONS					
		DT		SD		25		S13		196		067		061		7		24							

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 - 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 CL
		STD	0000	0224	3314	2649	0015531	0000	14568								
142		OBS	0000	0224	33140	2649			14568								
		OBS	0003	0142	33170	2657			14532								
		STD	0010	0128	3326	2665	0013985	0014	14528								
001		OBS	0010	0128	33258	2665			14528								
		STD	0020	0122	3333	2671	0013406	0028	14528								
		OBS	0020	0122	33330	2671			14528								
		OBS	0025	0119	33347	2673			14528								
		STD	0030	0119	3337	2674	0013099	0041	14529								
		OBS	0030	0119	33368	2674			14529								
		STD	0050	0118	3338	2675	0013001	0067	14532								
		OBS	0050	0118	33380	2675			14532								
		OBS	0070	0028	33627	2701			14498								
		STD	0075	0036	3373	2709	0009843	0096	14504								
		OBS	0075	0036	33733	2709			14504								
		OBS	0090	0109	34013	2727			14543								
		STD	0100	0120	3403	2727	0008087	0118	14550								
		OBS	0100	0120	34030	2727			14550								
		STD	0125	0176	3423	2740	0006956	0137	14582								
		OBS	0125	0176	34232	2740			14582								
		OBS	0140	0195	34288	2743			14594								
		OBS	0145	0274	34389	2744			14630								
		STD	0150	0271	3439	2744	0006561	0154	14630								
		OBS	0150	0271	34386	2744			14630								
		OBS	0155	0233	34375	2747			14614								
		OBS	0170	0240	34450	2752			14621								
		OBS	0185	0304	34605	2759			14653								
		OBS	0190	0270	34565	2759			14638								
		STD	0200	0286	3461	2761	0005042	0183	14648								
		OBS	0200	0286	34610	2761			14648								
		OBS	0220	0476	34883	2763			14735								
		STD	0250	0464	3488	2764	0004880	0208	14735								
		OBS	0250	0464	34878	2764			14735								
		STD	0300	0429	3489	2769	0004461	0231	14729								
		OBS	0300	0429	34889	2769			14729								
		OBS	0320	0420	34899	2771			14728								

REFERENCE STATION NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DATE MO DAY HR. /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				
					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
					10"	1"	MO	DAY																	
318039	EV	46571N	046354W	149	66	05	30	153	1968	002	10239	0768	1	26	3	3		X1	0	3			0200		
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANSL mm	DIR.	SPEED OR FORCE	DRY BULB		WET BULB														
					DT	SD	SD	SL	SL	SL	SL	SL													
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ CYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
153	OBS	STD	0000	0126	3314	2656		0014871		0000	14524														
		OBS	0000	0126	33140	2656					14524														
	OBS	STD	0010	0116	3316	2658		0014672		0014	14522														
		OBS	0010	0116	33158	2658					14522														
002	OBS	STD	0020	0086	3324	2666		0013893		0029	14511														
		OBS	0020	0086	33238	2666					14511														
	OBS	STD	0025	0071	33280	2670					14506														
		OBS	0030	0086	3342	2681		0012464		0042	14515														
	OBS	STD	0030	0086	33425	2681					14515														
		OBS	0039	0061	33630	2699					14508														
	OBS	STD	0050	0106	3390	2718		0008980		0063	14534														
		OBS	0050	0106	33900	2718					14534														
	OBS	STD	0075	0209	3439	2750		0005990		0082	14591														
		OBS	0075	0209	34390	2750					14591														
	OBS	STD	0100	0258	3451	2756		0005455		0096	14618														
		OBS	0100	0258	34515	2756					14618														
	OBS	STD	0125	0306	3463	2760		0005062		0109	14644														
		OBS	0125	0306	34625	2760					14644														
	OBS	STD	0150	0342	3469	2762		0004940		0122	14665														
		OBS	0150	0342	34688	2762					14665														
	OBS	STD	0200	0394	3481	2766		0004593		0146	14696														
		OBS	0200	0394	34809	2766					14696														
	OBS	STD	0250	0443	3489	2767		0004580		0169	14726														
		OBS	0250	0443	34887	2767					14726														
	OBS	STD	0280	0432	34875	2767					14726														
		OBS	0300	0449	3492	2769		0004458		0191	14737														
	OBS	STD	0300	0449	34919	2769					14737														
		OBS	0400	0448	3494	2771		0004403		0236	14754														
	OBS	STD	0400	0448	34939	2771					14754														
		OBS	0500	0421	3492	2772		0004360		0279	14759														
	OBS	STD	0500	0421	34918	2772					14759														
		OBS	0600	0399	3491	2774		0004249		0322	14766														
	OBS	STD	0600	0399	34912	2774					14766														
		OBS	0700	0393	3492	2775		0004209		0365	14780														
	OBS	STD	0700	0393	34921	2775					14780														
		OBS																							

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	46568N	046483W		149	66	05	30	164	1968	002	10240	1225	1	26	3	3		X1	0	3	0201
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
						DT	SD	25	S21	193	039	039	7	23									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Σ AD OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	2 C
164		STD	0000	0185	3347	2678	0012717	0000	14555								
		OBS	0000	0185	33475	2678			14555								
002		STD	0010	0181	3348	2679	0012638	0012	14555								
		OBS	0010	0181	33482	2679			14555								
		STD	0020	0179	3350	2681	0012487	0025	14556								
		OBS	0020	0179	33500	2681			14556								
		OBS	0025	0179	33535	2684			14557								
		STD	0030	0177	3355	2685	0012056	0037	14558								
		OBS	0030	0177	33555	2685			14558								
		OBS	0048	0146	33610	2692			14548								
		STD	0050	0108	3363	2696	0011039	0060	14531								
		OBS	0050	0108	33630	2696			14531								
		OBS	0055	0106	33780	2708			14533								
		STD	0075	0176	3431	2746	0006344	0082	14575								
		OBS	0075	0176	34310	2746			14575								
		STD	0100	0209	3440	2751	0005920	0097	14595								
		OBS	0100	0209	34400	2751			14595								
		STD	0125	0254	3457	2760	0005018	0111	14621								
		OBS	0125	0254	34570	2760			14621								
		STD	0150	0310	3467	2763	0004766	0123	14651								
		OBS	0150	0228P	3473P	2775P											
		STD	0200	0386	3481	2767	0004508	0146	14693								
		OBS	0200	0386	34809	2767			14693								
		STD	0250	0412	3486	2769	0004426	0169	14713								
		OBS	0250	0412	34862	2769			14713								
		STD	0300	0429	3490	2770	0004380	0191	14729								
		OBS	0300	0429	34900	2770			14729								
		STD	0400	0444	3494	2771	0004363	0234	14752								
		OBS	0400	0444	34939	2771			14752								
		STD	0500	0426	3494	2773	0004259	0277	14761								
		OBS	0500	0426	34939	2773			14761								
		STD	0600	0406	3491	2773	0004304	0320	14769								
		OBS	0600	0406	34915	2773			14769								
		STD	0700	0388	3490	2774	0004316	0363	14778								
		OBS	0700	0388	34899	2774			14778								
		STD	0800	0382	3491	2775	0004262	0406	14792								
		OBS	0800	0382	34909	2775			14792								
		STD	0900	0377	3491	2776	0004286	0449	14807								
		OBS	0900	0377	34910	2776			14807								
		STD	1000	0368	3492	2778	0004201	0491	14820								
		OBS	1000	0368	34919	2778			14820								
		STD	1100	0365	3493	2779	0004137	0533	14835								
		OBS	1100	0365	34934	2779			14835								

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	40						DIR	HGT	PER		TYPE	AMT	

318039		EV	46563N	047028W	149	67	05	30	177	1968	000	10241	1147	1	26	4	3		X1	0	3	0202
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	25	S27	186	044	044	7	27	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S °/.	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\frac{\Delta \sigma_t}{\sigma_t}$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	Si O ₄ -Si µg - ml/l	pH	S C
		STD	0000	0176	3330	2665	0013957	0000	14549								
	177	OBS	0000	0176	33303	2665			14549								
		STD	0010	0166	3332	2667	0013760	0013	14546								
		OBS	0010	0166	33320	2667			14546								
		STD	0020	0154	3336	2673	0013263	0027	14543								
	001	OBS	0020	0154	33376	2673			14543								
		OBS	0025	0143	33375	2673			14539								
		STD	0030	0126	3340	2676	0012910	0040	14533								
		OBS	0030	0126	33398	2676			14533								
		OBS	0045	0121	33600	2693			14536								
		STD	0050	0083	3370	2703	0010358	0063	14521								
		OBS	0050	0083	33700	2703			14521								
		OBS	0058	0083	33850	2715			14524								
		STD	0075	0131	3405	2728	0008004	0086	14551								
		OBS	0075	0131	34050	2728			14551								
		STD	0100	0190	3433	2747	0006266	0104	14586								
		OBS	0100	0190	34335	2747			14586								
		STD	0125	0239	3444	2751	0005896	0119	14613								
		OBS	0125	0239	34437	2751			14613								
		STD	0150	0278	3453	2755	0005537	0134	14635								
		OBS	0150	0278	34530	2755			14635								
		OBS	0175	0304	34600	2758			14651								
		STD	0200	0346	3467	2760	0005163	0160	14674								
		OBS	0200	0346	34668	2760			14674								
		STD	0250	0391	3476	2763	0004962	0186	14703								
		OBS	0250	0391	34761	2763			14703								
		OBS	0270	0396	34795	2765			14709								
		OBS	0286	0389	34780	2764			14708								
		STD	0300	0419	3484	2766	0004696	0210	14724								
		OBS	0300	0419	34843	2766			14724								
		OBS	0320	0444	34880	2767			14738								
		OBS	0330	0405	34840	2768			14723								
		STD	0400	0429	3490	2770	0004483	0256	14745								
		OBS	0400	0429	34900	2770			14745								
		STD	0500	0446	3494	2771	0004489	0301	14769								
		OBS	0500	0446	34939	2771			14769								
		STD	0600	0424	3492	2772	0004438	0345	14777								
		OBS	0600	0424	34925	2772			14777								
		STD	0700	0403	3491	2773	0004404	0389	14784								
		OBS	0700	0403	34910	2773			14784								
		STD	0800	0380	3490	2775	0004311	0433	14791								
		OBS	0800	0380	34900	2775			14791								
		STD	0900	0377	3490	2775	0004349	0476	14806								
		OBS	0900	0377	34902	2775			14806								
		STD	1000	0376	3492	2777	0004292	0519	14823								
		OBS	1000	0376	34920	2777			14823								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT 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		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		46563N	047180W		149	67	05	30	191	1968	002	10242	0375	1	25	5	3		X1	0	3	0203
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	CRY BULB	WET BULB																		
DT	SD	23	S28	200	056	050	7	17															

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0255	3322	2653	0015142	0000	14582								
191		OBS	0000	0255	33223	2653			14582								
		STD	0010	0252	3323	2654	0015065	0015	14583								
		OBS	0010	0252	33231	2654			14583								
001		STD	0020	0246	3324	2655	0014915	0030	14582								
		OBS	0020	0246	33245	2655			14582								
		OBS	0025	0244	33258	2657			14582								
		STD	0030	0209	3329	2662	0014309	0044	14568								
		OBS	0030	0209	33288	2662			14568								
		STD	0050	0174	3342	2675	0013063	0072	14558								
		OBS	0050	0174	33420	2675			14558								
		OBS	0069	0083	33490	2686			14521								
		STD	0075	0122	3375	2705	0010222	0101	14543								
		OBS	0075	0122	33750	2705			14543								
		STD	0100	0223	3407	2723	0008503	0124	14596								
		OBS	0100	0223	34073	2723			14596								
		STD	0125	0253	3423	2733	0007577	0144	14616								
		OBS	0125	0253	34230	2733			14616								
		STD	0150	0284	3433	2739	0007116	0163	14635								
		OBS	0150	0284	34328	2739			14635								
		STD	0200	0364	3454	2748	0006296	0196	14680								
		OBS	0200	0364	34541	2748			14680								
		OBS	0244	0447	34675	2750			14724								
		STD	0250	0447	3468	2750	0006174	0227	14725								
		OBS	0250	0447	34679	2750			14725								
		OBS	0286	0475	34767	2754			14744								
		STD	0300	0477	3477	2754	0005879	0257	14747								
		OBS	0300	0477	34771	2754			14747								
		OBS	0340	0487	34809	2756			14758								

REFERENCE CTRY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV	46559N	047295W		149	67	05	30	205	1968	002	10243	0218	1	24	5	3		X1	0	3		0204
					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											
DT		SD		25	S24				200		044		039		6	18							

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0196	3284	2627	0017586	0000	14551								
205		OBS	0000	0196	32843	2627			14551								
		STD	0010	0195	3284	2627	0017570	0017	14553								
		OBS	0010	0195	32844	2627			14553								
001		STD	0020	0187	3285	2629	0017454	0035	14551								
		OBS	0020	0187	32853	2629			14551								
		OBS	0025	0174	32862	2630			14546								
		OBS	0028	0166	32880	2632			14543								
		STD	0030	0026	3290	2642	0016121	0051	14481								
		OBS	0030	0026	32903	2642			14481								
		OBS	0032	-0063	32930	2649			14440								
		OBS	0047	-0067	33085	2661			14443								
		STD	0050	-0054	3323	2672	0013302	0081	14452								
		OBS	0050	-0054	33226	2672			14452								
		OBS	0064	0037	33337	2677			14497								
		STD	0075	0037	3339	2681	0012462	0113	14500								
		OBS	0075	0037	33390	2681			14500								
		STD	0100	0107	3365	2698	0010871	0142	14539								
		OBS	0100	0107	33652	2698			14539								
		OBS	0113	0164	33760	2703			14568								
		STD	0125	0169	3386	2710	0009749	0168	14574								
		OBS	0125	0169	33856	2710			14574								
		OBS	0146	0195	33999	2720			14591								
		STD	0150	0229	3413	2727	0008184	0190	14608								
		OBS	0150	0229	34125	2727			14608								
		OBS	0165	0245	34140	2727			14618								
		STD	0200	0246	3414	2727	0008243	0231	14624								
		OBS	0200	0246	34139	2727			14624								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10°	1°	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT				
318039	EV		46555N	047432W		149	67	05	30	217	1968	002	10244	0174	1	25	5	3		X2	0	3		0205
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
		DT	SD	25	S18	203		050		050		6	12											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ OBN, M. $\times 10^3$	SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH					
		STD	0000	0101	3284	2633		0017016		0000	14509													
	217	OBS	0000	0101	32839	2633					14509													
		STD	0010	0098	3284	2633		0016997		0017	14509													
		OBS	0010	0098	32839	2633					14509													
		STD	0020	0097	3284	2633		0016978		0034	14510													
	001	OBS	0020	0097	32840	2633					14510													
		OBS	0025	0096	32843	2634					14511													
		STD	0030	0088	3284	2634		0016950		0051	14508													
		OBS	0030	0088	32837	2634					14508													
		STD	0050	-0045	3303	2656		0014795		0082	14453													
		OBS	0050	-0045	33035	2656					14453													
		OBS	0053	-0027	33050	2657					14462													
		OBS	0070	-0038	33243	2673					14463													
		STD	0075	-0025	3336	2682		0012404		0116	14471													
		OBS	0075	-0025	33358	2682					14471													
		STD	0100	0026	3308	2705		0010154		0144	14503													
		OBS	0100	0026	33685	2705					14503													
		STD	0125	0058	3383	2716		0009197		0169	14524													
		OBS	0125	0058	33833	2716					14524													
		STD	0150	0111	3396	2723		0008524		0191	14554													
		OBS	0150	0111	33965	2723					14554													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR:1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		46552N	047578W		149	67	05	30	229	1968	002	10245	0125	1	25	3	3		X2	0	3	0206
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		DT	SO	25	S18			217	050	050	6	10											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ OBN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH					
229		STD	0000	0168	3272	2620		0018302		0000	14537												
		OBS	0000	0168	32724	2620					14537												
		STD	0010	0168	3273	2620		0018276		0018	14539												
001		OBS	0010	0168	32727	2620					14539												
		STD	0020	0170	3273	2620		0018295		0036	14542												
		OBS	0020	0170	32727	2620					14542												
		STD	0030	0143	3273	2622		0018077		0054	14531												
		OBS	0030	0143	32733	2622					14531												
		OBS	0045	-0054	32960	2651					14447												
		STD	0050	-0008	3314	2663		0014149		0087	14472												
		OBS	0050	-0008	33140	2663					14472												
		STD	0075	0009	3320	2667		0013784		0121	14484												
		OBS	0075	0009	33198	2667					14484												
		OBS	0080	-0004	33195	2667					14479												
	STD	0100	0035	3351	2691		0011546		0153	14505													
	OBS	0100	0035	33508	2691					14505													
	STD	0125	0040	3351	2690		0011572		0182	14511													
	OBS	0125	0040	33508	2690					14511													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		44400N	049200W		149 49	05	31	177	1968	002	10246	0060	1	20	2	3		X2	0	3	0207
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	mbars	DRY BULB	WET BULB										
						01	50	19	517	207	061	061	7	07								

MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CC
		STO	0000	0275	3272	2611	0019081	0000	14584								
	177	OBS	0000	0275	32723	2611			14584								
		STO	0010	0258	3272	2613	0018957	0019	14579								
		OBS	0010	0258	32723	2613			14579								
		STO	0020	0191	3271	2617	0018540	0037	14551								
	001	OBS	0020	0191	32713	2617			14551								
		OBS	0025	0178	32711	2618			14546								
		STO	0030	0130	3277	2626	0017713	0055	14526								
		OBS	0030	0130	32770	2626			14526								
		OBS	0034	0112	32891	2637			14520								
		STO	0050	0110	3291	2638	0016508	0090	14522								
		OBS	0050	0110	32912	2638			14522								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		44370N	049050W		149 49	05	31	187	1968	002	10247	0896	1	20	2	3		X6	0	3		0208
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	mbars	DRY BULB	WET BULB											
						DT	50	19	522	200	072	072	7	25									

MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CC
		STO	0000	0192	3272	2617	0018510	0000	14548								
	187	OBS	0000	0192	32718	2617			14548								
		STO	0010	0178	3272	2618	0018412	0018	14543								
		OBS	0010	0178	32718	2618			14543								
	002	OBS	0013	0176	32717	2618			14543								
		STO	0020	-0034	3282	2639	0016500	0035	14450								
		OBS	0020	-0034	32820	2639			14450								
		OBS	0025	-0056	32905	2646			14442								
		STO	0030	-0035	3300	2653	0015130	0051	14454								
		OBS	0030	-0035	32998	2653			14454								
		OBS	0038	-0043	33117	2663			14453								
		OBS	0040	-0015	33170	2666			14467								
		STO	0050	-0017	3328	2675	0013046	0079	14469								
		OBS	0050	-0017	33280	2675			14469								
		STO	0075	-0020	3336	2681	0012414	0111	14473								
		OBS	0075	-0020	33360	2681			14473								
		STO	0100	-0008	3341	2685	0012058	0142	14484								
		OBS	0100	-0008	33413	2685			14484								
		STO	0125	0026	3356	2695	0011080	0171	14505								
		OBS	0125	0026	33562	2695			14505								
		STO	0150	0059	3374	2708	0009927	0197	14527								
		OBS	0150	0059	33738	2708			14527								
		STO	0200	0088	3385	2715	0009257	0245	14550								
		OBS	0200	0088	33850	2715			14550								
		OBS	0215	0104	33990	2725			14562								
		OBS	0219	0141	34038	2727			14579								
		STO	0250	0219	3433	2744	0006596	0285	14623								
		OBS	0250	0219	34330	2744			14623								
		STO	0300	0308	3455	2754	0005763	0316	14673								
		OBS	0300	0308	34550	2754			14673								
		OBS	0369	0383	34728	2761			14719								
		OBS	0380	0431	34808	2762			14742								
		STO	0400	0428	3481	2763	0005100	0370	14744								
		OBS	0400	0428	34815	2763			14744								
		STO	0500	0436	3486	2766	0004969	0420	14764								
		OBS	0500	0436	34859	2766			14764								
		STO	0600	0435	3489	2768	0004829	0469	14781								
		OBS	0600	0435	34890	2768			14781								
		STO	0700	0427	3491	2771	0004676	0517	14794								
		OBS	0700	0427	34912	2771			14794								
		STO	0800	0413	3492	2773	0004553	0563	14805								
		OBS	0800	0413	34919	2773			14805								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	IO. NO.					MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT			PER	SEA	TYPE	AMT				
										10"											1"		
318039	EV	44342N	048500W	149	48	05	31	200	1968	002	10248	2359	1	18	3	2		X2	0	3		0209	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET BULK	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		DT	SD	18	S24	186	072	072	7	39													
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -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	0186	3284	2628	0017505	0000	14547														
200		OBS	0000	0186	32845	2628			14547														
		STD	0010	0164	3288	2632	0017090	0017	14539														
		OBS	0010	0164	32880	2632			14539														
003		STD	0020	0071	3296	2645	0015918	0033	14500														
		OBS	0020	0071	32960	2645			14500														
		OBS	0025	0060	33028	2651			14497														
		STD	0030	0049	3306	2654	0015029	0049	14493														
		OBS	0030	0049	33062	2654			14493														
		OBS	0040	0039	33158	2662			14492														
		STD	0050	0071	3338	2678	0012724	0077	14511														
		OBS	0050	0071	33380	2678			14511														
		OBS	0052	0155	33590	2690			14552														
		OBS	0070	0118	33793	2709			14541														
		STD	0075	0128	3385	2712	0009520	0104	14547														
		OBS	0075	0128	33847	2712			14547														
		OBS	0079	0141	33888	2715			14554														
		OBS	0095	0146	34100	2731			14562														
		STD	0100	0226	3418	2731	0007737	0126	14599														
		OBS	0100	0226	34178	2731			14599														
		OBS	0101	0275	34240	2732			14622														
		OBS	0110	0275	34308	2738			14624														
		STD	0125	0348	3454	2749	0006084	0143	14661														
		OBS	0125	0348	34540	2749			14661														
		OBS	0133	0407	34620	2750			14688														
		OBS	0145	0314	34580	2756			14650														
		STD	0150	0326	3460	2756	0005447	0158	14656														
		OBS	0150	0326	34600	2756			14656														
		OBS	0170	0397	34690	2756			14691														
		OBS	0180	0382	34679	2757			14686														
		OBS	0185	0400	34720	2759			14695														
		STD	0200	0402	3472	2759	0005316	0185	14699														
		OBS	0200	0402	34723	2759			14699														
		OBS	0231	0419	34799	2763			14712														
		OBS	0248	0446	34847	2764			14727														
		STD	0250	0444	3485	2764	0004868	0210	14726														
		OBS	0250	0444	34849	2764			14726														
		STD	0300	0446	3488	2767	0004689	0234	14736														
		OBS	0300	0446	34883	2767			14736														
		STD	0400	0452	3491	2768	0004667	0281	14755														
		OBS	0400	0452	34910	2768			14755														
		STD	0500	0447	3493	2770	0004571	0327	14770														
		OBS	0500	0447	34929	2770			14770														
		STD	0600	0425	3492	2772	0004466	0372	14777														
		OBS	0600	0425	34923	2772			14777														
		STD	0700	0415	3492	2773	0004433	0417	14789														
		OBS	0700	0415	34925	2773			14789														
		STD	0800	0398	3492	2775	0004373	0461	14799														
		OBS	0800	0398	34920	2775			14799														
		STD	0900	0389	3492	2775	0004366	0504	14812														
		OBS	0900	0389	34919	2775			14812														
		STD	1000	0380	3491	2776	0004372	0548	14825														
		OBS	1000	0380	34915	2776			14825														
		STD	1100	0376	3492	2777	0004387	0592	14840														
		OBS	1100	0376	34918	2777			14840														
		STD	1200	0376	3492	2777	0004473	0636	14856														
		OBS	1200	0376	34918	2777			14856														
		STD	1300	0375	3492	2777	0004538	0681	14873														
		OBS	1300	0375	34920	2777			14873														
		STD	1400	0374	3492	2777	0004602	0727	14889														
		OBS	1400	0374	34921	2777			14889														
		STD	1500	0374	3493	2778	0004615	0773	14906														
		OBS	1500	0374	34930	2778			14906														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MO 1/10	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
318039	EV		44312N	048345W	149	48		05	31	220	1968	002	10249	3146	1	18	2	2		X2	0	3	0210				
		WATER COLOR CODE	TRANS. ml	DIR.	SPEED OR FORCE	BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																
							DRY BULB	WET BULB																			
		DT	SD	18	S16	183	094	094	7	29																	
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$	$\Sigma \Delta$ 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	S CC										
		STD	0000	0618	3370	2653	0015178	0000	14741																		
219		OBS	0000	0618	33700	2653			14741																		
		STD	0010	0624	3371	2652	0015219	0015	14745																		
		OBS	0010	0624	33706	2652			14745																		
		STD	0020	0691	3400	2667	0013878	0029	14777																		
003		OBS	0020	0691	34000	2667			14777																		
		OBS	0025	0764	34300	2680			14810																		
		STD	0030	0851	3462	2692	0011508	0042	14849																		
		OBS	0030	0851	34620	2692			14849																		
		OBS	0040	0883	34685	2692			14863																		
		STD	0050	0775	3461	2703	0010525	0064	14823																		
		OBS	0050	0775	34610	2703			14823																		
		STD	0075	0667	3453	2711	0009702	0089	14784																		
		OBS	0075	0667	34530	2711			14784																		
		OBS	0092	0831	34920	2718			14855																		
		STD	0100	0823	3491	2719	0009070	0113	14853																		
		OBS	0100	0823	34910	2719			14853																		
		OBS	0110	0783	34880	2723			14839																		
		OBS	0120	0820	34940	2722			14856																		
		STD	0125	0795	3492	2724	0008640	0135	14847																		
		OBS	0125	0795	34920	2724			14847																		
		STD	0150	0696	3486	2734	0007724	0155	14812																		
		OBS	0150	0696	34862	2734			14812																		
		STD	0200	0603	3482	2742	0006933	0192	14782																		
		OBS	0200	0603	34816	2742			14782																		
		STD	0250	0556	3483	2750	0006302	0225	14772																		
		OBS	0250	0556	34832	2750			14772																		
		STD	0300	0504	3485	2758	0005566	0255	14759																		
		OBS	0300	0504	34855	2758			14759																		
		STD	0400	0464	3491	2767	0004804	0307	14760																		
		OBS	0400	0464	34910	2767			14760																		
		STD	0500	0468	3497	2771	0004498	0353	14779																		
		OBS	0500	0468	34972	2771			14779																		
		STD	0600	0456	3498	2773	0004439	0398	14791																		
		OBS	0600	0456	34976	2773			14791																		
		STD	0700	0436	3497	2775	0004335	0442	14799																		
		OBS	0700	0436	34972	2775			14799																		
		STD	0800	0424	3497	2776	0004307	0485	14810																		
		OBS	0800	0424	34970	2776			14810																		
		STD	0900	0416	3497	2777	0004282	0528	14824																		
		OBS	0900	0416	34973	2777			14824																		
		STD	1000	0402	3496	2777	0004310	0571	14834																		
		OBS	1000	0402	34959	2777			14834																		
		STD	1100	0394	3495	2777	0004364	0614	14848																		
		OBS	1100	0394	34951	2777			14848																		
		STD	1200	0383	3495	2779	0004308	0658	14860																		
		OBS	1200	0383	34953	2779			14860																		
		STD	1300	0382	3496	2779	0004339	0701	14876																		
		OBS	1300	0382	34959	2779			14876																		
		STD	1400	0378	3496	2780	0004360	0744	14891																		
		OBS	1400	0378	34960	2780			14891																		
		STD	1500	0372	3496	2780	0004371	0788	14906																		
		OBS	1500	0372	34960	2780			14906																		

REFERENCE CITY CODE	SHIP NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR, 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	44290N	048200W	149	48	05	31	235	1968	002	10250	3512	1	18	2	2		X5	0	3			0211								
				WATER		WIND			BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																	
				COLOR CODE		TRANS. (m)				DIR.						SPEED OR FORCE			ORT												
				0T		SD		18		S20		183		094		094		7		29											

MESSENGER TIME OF HR 1/10	CAS NO.	CAR 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 $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	Si O ₄ -Si $\mu g - \mu l/l$	pH	S C
		STD	0000	0515	3330	2634	0016971	0000	14694								
235		OBS	0000	0515	33302	2634			14694								
		OBS	0005	0563	33380	2634			14715								
		STD	0010	0477	3333	2640	0016328	0016	14680								
002		OBS	0010	0477	33335	2640			14680								
		STD	0020	0476	3346	2650	0015388	0032	14683								
		OBS	0020	0476	33460	2650			14683								
		OBS	0025	0496	33700	2667			14695								
		STD	0030	0720	3420	2678	0012783	0046	14793								
		OBS	0030	0720	34200	2678			14793								
		STD	0050	0898	3477	2696	0011144	0070	14872								
		OBS	0050	0898	34770	2696			14872								
		OBS	0069	0923	34840	2698			14885								
		STD	0075	0716	3460	2710	0009827	0096	14804								
		OBS	0075	0716	34600	2710			14804								
		STD	0100	0538	3435	2714	0009493	0120	14733								
		OBS	0100	0538	34350	2714			14733								
		STD	0125	0664	3467	2723	0008685	0143	14793								
		OBS	0125	0664	34671	2723			14793								
		OBS	0140	0716	34794	2725			14817								
		STD	0150	0646	3470	2728	0008275	0164	14790								
		OBS	0150	0646	34700	2728			14790								
		OBS	0160	0514	34746	2732			14736								
		OBS	0182	0546	34610	2733			14754								
		OBS	0188	0511	34586	2736			14740								
		STD	0200	0511	3465	2741	0007061	0203	14743								
		OBS	0200	0511	34650	2741			14743								
		OBS	0234	0505	34710	2746			14747								
		STD	0250	0502	3470	2745	0006665	0237	14748								
		OBS	0250	0502	34697	2745			14748								
		STD	0300	0539	3489	2756	0005726	0268	14774								
		OBS	0300	0539	34890	2756			14774								
		OBS	0350	0525	34901	2759			14777								
		STD	0400	0477	3488	2763	0005175	0322	14765								
		OBS	0400	0477	34880	2763			14765								
		STD	0500	0456	3492	2769	0004734	0372	14773								
		OBS	0500	0456	34922	2769			14773								
		STD	0600	0441	3493	2771	0004560	0419	14784								
		OBS	0600	0441	34935	2771			14784								
		STD	0700	0424	3493	2773	0004502	0464	14793								
		OBS	0700	0424	34930	2773			14793								
		STD	0800	0423	3493	2773	0004572	0509	14810								
		OBS	0800	0423	34933	2773			14810								
		STD	0900	0415	3495	2775	0004476	0554	14823								
		OBS	0900	0415	34946	2775			14823								
		STD	1000	0404	3494	2776	0004474	0599	14835								
		OBS	1000	0404	34940	2776			14835								
		STD	1100	0399	3495	2777	0004457	0644	14850								
		OBS	1100	0399	34947	2777			14850								

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPT	MARDEN		STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD		NODC
CRV	IO.				10"	1"	MO	DAY	HR	1/10		CRUISE	STATION	TO	OF	DIR	HGT	PER	SEA	TYPE	AMT		
CODE	NO.											NO.	NUMBER	BOTTOM	SAMPLES								
318039	EV	44240N	048050W	149	48	06	01	008	1968	002	10251	1980	1	18	3	5			X5	0	3		0212
WATER		WIND		BARO-	AIR TEMP. °C		VIS.	NO.	SPECIAL														
COLOR	TRANS.	DIR.	SPEED							CRY	WET	NO.											
CODE	IMT		OR	METER	BULB	BULB	CODE	DEPTHS	OBSERVATIONS	BULB	BULB	DEPTHS											
DT	SD	18	S20	160	833	833	8	25															
MESSNGR	CAS	CAR	DEPTH	T	S	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S						
TIME	NO.	TYPE	(m)	°C	‰		ANOMALY-210°	OTN, M.	VELOCITY	ml/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		OC						
HR 1/10								X 10 ³															
		STD	0000	0455	3521	2633	0016998	0000	14668														
008		OBS	0000	0455	33215	2633			14668														
		STD	0010	0450	3322	2635	0016898	0016	14667														
		OBS	0010	0450	33223	2635			14667														
		STD	0020	0443	3330	2642	0016227	0033	14667														
003		OBS	0020	0443	33304	2642			14667														
		OBS	0025	0441	33315	2643			14667														
		STD	0030	0441	3332	2643	0016091	0049	14668														
		OBS	0030	0441	33320	2643			14668														
		STD	0050	0286	3362	2682	0012409	0078	14609														
		OBS	0050	0286	33620	2682			14609														
		OBS	0061	0056	33702	2705			14511														
		STD	0075	0060	3379	2712	0009542	0105	14516														
		OBS	0075	0060	33790	2712			14516														
		STD	0100	0123	3403	2727	0008106	0127	14552														
		OBS	0100	0123	34030	2727			14552														
		STD	0125	0285	3434	2739	0007019	0146	14631														
		OBS	0125	0285	34340	2739			14631														
		OBS	0143	0399	34480	2740			14685														
		STD	0150	0339	3440	2739	0007074	0164	14659														
		OBS	0150	0339	34400	2739			14659														
		OBS	0160	0356	34497	2745			14670														
		OBS	0174	0323	34522	2750			14658														
		STD	0200	0487	3478	2754	0005808	0196	14735														
		OBS	0200	0487	34780	2754			14735														
		STD	0250	0496	3488	2761	0005223	0224	14748														
		OBS	0250	0496	34880	2761			14748														
		STD	0300	0469	3488	2763	0004993	0249	14745														
		OBS	0300	0469	34877	2763			14745														
		STD	0400	0457	3492	2768	0004680	0297	14757														
		OBS	0400	0457	34916	2768			14757														
		STD	0500	0436	3493	2771	0004468	0343	14765														
		OBS	0500	0436	34926	2771			14765														
		STD	0600	0425	3493	2773	0004377	0387	14777														
		OBS	0600	0425	34935	2773			14777														
		STD	0700	0414	3494	2774	0004342	0431	14789														
		OBS	0700	0414	34936	2774			14789														
		STD	0800	0410	3494	2775	0004360	0475	14804														
		OBS	0800	0410	34940	2775			14804														
		STD	0900	0406	3496	2777	0004261	0518	14819														
		OBS	0900	0406	34960	2777			14819														
		STD	1000	0401	3496	2777	0004290	0560	14834														
		OBS	1000	0401	34960	2777			14834														
		STD	1100	0390	3495	2778	0004353	0604	14846														
		OBS	1100	0390	34946	2778			14846														

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

318039	EV		44240N	047530W		149	47	06	01	021	1968	002	10252		2090	1	18	4	6		X5	03		0213
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	18	S18	170	083	083	7	28	
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	3 C C
		STD	0000	0461	3326	2636	0016708	0000	14671								
		OBS	0000	0461	33262	2636			14671								
		STD	0010	0462	3328	2638	0016590	0016	14673								
		OBS	0010	0462	33280	2638			14673								
		STD	0020	0447	3328	2640	0016427	0033	14669								
		OBS	0020	0447	33283	2640			14669								
		OBS	0025	0386	33285	2646			14644								
		STD	0030	0136	3331	2668	0013670	0048	14536								
		OBS	0030	0136	33307	2668			14536								
		OBS	0040	0017	33480	2689			14486								
		STD	0050	0020	3369	2706	0010087	0072	14492								
		OBS	0050	0020	33690	2706			14492								
		STD	0075	0340	3438	2738	0007179	0093	14647								
		OBS	0075	0340	34380	2738			14647								
		OBS	0085	0448	34540	2739			14696								
		OBS	0091	0377	34455	2740			14667								
		STD	0100	0456	3456	2740	0007011	0111	14703								
		OBS	0100	0456	34559	2740			14703								
		STD	0125	0355	3447	2744	0006645	0128	14663								
		OBS	0125	0355	34475	2744			14663								
		OBS	0135	0340	34483	2746			14658								
		STD	0150	0395	3463	2752	0005906	0144	14686								
		OBS	0150	0395	34628	2752			14686								
		OBS	0185	0446	34740	2755			14715								
		STD	0200	0376	3468	2758	0005385	0172	14687								
		OBS	0200	0376	34678	2758			14687								
		OBS	0219	0383	34725	2761			14694								
		OBS	0222	0453	34825	2761			14725								
		STD	0250	0454	3485	2763	0004937	0198	14730								
		OBS	0250	0454	34855	2763			14730								
		STD	0300	0476	3492	2766	0004747	0222	14749								
		OBS	0300	0476	34921	2766			14749								
		STD	0400	0462	3493	2769	0004613	0269	14759								
		OBS	0400	0462	34933	2769			14759								
		STD	0500	0449	3494	2771	0004475	0314	14771								
		OBS	0500	0449	34945	2771			14771								
		STD	0600	0430	3494	2773	0004402	0358	14779								
		OBS	0600	0430	34940	2773			14779								
		STD	0700	0424	3494	2773	0004430	0403	14793								
		OBS	0700	0424	34940	2773			14793								
		STD	0800	0403	3494	2776	0004276	0446	14801								
		OBS	0800	0403	34941	2776			14801								
		STD	0900	0398	3493	2776	0004350	0489	14816								
		OBS	0900	0398	34935	2776			14816								
		STD	1000	0395	3494	2776	0004382	0533	14831								
		OBS	1000	0395	34938	2776			14831								
		STD	1100	0391	3494	2777	0004392	0577	14846								
		OBS	1100	0391	34943	2777			14846								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318039	EV		44200N	047320W		149	47	06	01	040		1968	002	10253	4023	1	18	3	3		X6	0	3	0214	
						WATER		WIND		AIR TEMP. °C															
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						DT	SO	18	528	149	078	078	7	32											

MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0350	3294	2622	0018075	0000	14620								
	040	OBS	0000	0350	32940	2622			14620								
		OBS	0008	0477	33260	2635			14679								
		STD	0010	0416	3320	2636	0016734	0017	14653								
	002	OBS	0010	0416	33200	2636			14653								
		OBS	0013	0242	33040	2639			14576								
		STD	0020	0821	3439	2678	0012753	0032	14833								
		OBS	0020	0821	34390	2678			14833								
		OBS	0025	0906	34560	2678			14868								
		STD	0030	0977	3476	2682	0012410	0044	14897								
		STD	0050	1149	3526	2691	0011684	0068	14968								
		OBS	0050	1149	35260	2691			14968								
		STD	0075	1112	3520	2693	0011532	0097	14959								
		OBS	0075	1112	35200	2693			14959								
		STD	0100	1005	3506	2701	0010804	0125	14923								
		OBS	0100	1005	35060	2701			14923								
		STD	0125	0936	3500	2708	0010183	0152	14901								
		OBS	0125	0936	35000	2708			14901								
		STD	0150	0910	3501	2713	0009749	0176	14895								
		OBS	0150	0910	35010	2713			14895								
		OBS	0175	0795	34927	2724			14855								
		STD	0200	0813	3498	2726	0008593	0222	14867								
		OBS	0200	0813	34980	2726			14867								
		OBS	0230	0623	34820	2740			14795								
		OBS	0240	0662	34910	2742			14814								
		STD	0250	0624	3478	2737	0007510	0263	14799								
		OBS	0250	0624	3457P	2720P											
		OBS	0255	0570	34770	2743			14778								
		OBS	0265	0602	34840	2744			14793								
		OBS	0285	0387	34549	2746			14704								
		STD	0300	0453	3470	2751	0006140	0497	14736								
		OBS	0300	0453	34700	2751			14736								
		OBS	0320	0516	34870	2757			14768								
		OBS	0335	0476	34640	2760			14753								
		OBS	0360	0515	34920	2762			14774								
		STD	0400	0461	3487	2764	0005079	0353	14758								
		OBS	0400	0461	34868	2764			14758								
		STD	0500	0456	3492	2768	0004752	0402	14773								
		OBS	0500	0456	34919	2768			14773								
		STD	0600	0443	3492	2770	0004697	0449	14784								
		OBS	0600	0443	34920	2770			14784								
		STD	0700	0426	3492	2772	0004612	0496	14794								
		OBS	0700	0426	34919	2772			14794								
		STD	0800	0411	3491	2773	0004558	0542	14804								
		OBS	0800	0411	34915	2773			14804								
		STD	0900	0404	3492	2774	0004532	0587	14818								
		OBS	0900	0404	34920	2774			14818								
		STD	1000	0405	3494	2776	0004468	0632	14835								
		OBS	1000	0405	34943	2776			14835								
		STD	1100	0394	3493	2776	0004497	0677	14847								
		OBS	1100	0394	34933	2776			14847								
		OBS	1160	0394	34934	2776			14857								

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBT INDIC	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C		VIS. CODE													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
DT	SD	17	S35	135	106	106	6	28																
318039		EV	44170N	047110W		149	47	06	01	058	1968	002	10254		4663	1	18	4	3		X5	0 3		0215
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	SD	17	S35	135	106	106	6	28										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S					
		STD	0000	0955	3408	2633		0017052		0000	14876													
058		OBS	0000	0955	34078	2633		0016405		0016	14876													
		STD	0010	1078	3444	2640		0016405		0016	14926													
		OBS	0010	1078	34439	2640					14926													
		STD	0020	1152	3484	2657		0014757		0032	14959													
002		OBS	0020	1152	34840	2657					14959													
		OBS	0025	1089	34695	2658					14936													
		STD	0030	1083	3480	2667		0013872		0046	14936													
		OBS	0030	1083	34800	2667					14936													
		OBS	0040	1217	35355	2685					14992													
		STD	0050	1217	3536	2685		0012187		0072	14993													
		OBS	0050	1217	35360	2685					14993													
		STD	0075	1209	3542	2692		0011664		0102	14995													
		OBS	0075	1209	35420	2692					14995													
		STD	0100	1236	3550	2693		0011607		0131	15010													
		OBS	0100	1236	35505	2693					15010													
		STD	0125	1196	3539	2692		0011754		0160	14999													
		OBS	0125	1196	35393	2692					14999													
		STD	0150	1134	3528	2695		0011538		0189	14980													
		OBS	0150	1134	35277	2695					14980													
		OBS	0181	0916	34910	2704					14902													
		STD	0200	1039	3530	2714		0009830		0243	14955													
		OBS	0200	1039	35300	2714					14955													
		STD	0250	0956	3520	2720		0009290		0291	14931													
		OBS	0250	0956	35200	2720					14931													
		OBS	0285	0666	34739	2728					14820													
		STD	0300	0764	3492	2728		0008493		0335	14864													
		OBS	0300	0764	34920	2728					14864													
		OBS	0365	0596	34780	2741					14806													
		OBS	0390	0665	34991	2748					14841													
		STD	0400	0631	3498	2752		0006358		0409	14829													
		OBS	0400	0631	34980	2752					14829													
		OBS	0435	0543	34890	2756					14798													
		OBS	0455	0569	34932	2756					14812													
		STD	0500	0531	3490	2758		0005789		0470	14804													
		OBS	0500	0531	34902	2758					14804													
		STD	0600	0527	3503	2769		0004906		0524	14821													
		OBS	0600	0527	35030	2769					14821													
		STD	0700	0467	3494	2769		0004948		0573	14811													
		OBS	0700	0467	34940	2769					14811													
		STD	0800	0456	3497	2772		0004698		0621	14824													
		OBS	0800	0456	34970	2772					14824													
		STD	0900	0437	3497	2774		0004585		0668	14832													
		OBS	0900	0437	34967	2774					14832													
		STD	1000	0432	3497	2775		0004630		0714	14847													
		OBS	1000	0432	34966	2775					14847													
		OBS	1090	0408	34953	2776					14852													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER	SEA		TYPE	AMT			
1318039	EV		48350N	046100W		149	86	06	18	209		1968	003	10255	1973	1	10	1	2		X6	0	3	0216		
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS														
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE																		
		DT	SD	10	510	274	078	078	7	29																
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C									
		STD	0000	0471	3384	2681	0012455	0000	14683																	
209		OBS	0000	0471	33841	2681			14683																	
		STD	0010	0440	3385	2685	0012112	0012	14672																	
		OBS	0010	0440	33846	2685			14672																	
		STD	0020	0419	3386	2688	0011803	0024	14665																	
003		OBS	0020	0419	33860	2688			14665																	
		OBS	0025	0405	33867	2690			14660																	
		STD	0030	0400	3389	2693	0011395	0035	14659																	
		OBS	0030	0400	33890	2693			14659																	
		STD	0050	0340	3398	2706	0010167	0057	14638																	
		OBS	0050	0340	33980	2706			14638																	
		STD	0075	0270	3437	2743	0006633	0078	14617																	
		OBS	0075	0270	34370	2743			14617																	
		STD	0100	0280	3451	2753	0005677	0093	14627																	
		OBS	0100	0280	34510	2753			14627																	
		STD	0125	0358	3471	2762	0004907	0107	14668																	
		OBS	0125	0358	34710	2762			14668																	
		OBS	0130	0379	34720	2761			14677																	
		OBS	0140	0344	34700	2763			14664																	
		STD	0150	0354	3472	2763	0004801	0119	14670																	
		OBS	0150	0354	34721	2763			14670																	
		STD	0200	0402	3481	2766	0004624	0142	14700																	
		OBS	0200	0402	34815	2766			14700																	
		STD	0250	0400	3481	2766	0004662	0165	14707																	
		OBS	0250	0400	34814	2766			14707																	
		OBS	0265	0375	34800	2767			14699																	
		OBS	0285	0385	34830	2769			14707																	
		STD	0300	0375	3479	2767	0004610	0189	14705																	
		OBS	0300	0375	34792	2767			14705																	
		STD	0400	0370	3483	2770	0004371	0234	14720																	
		OBS	0400	0370	34829	2770			14720																	
		STD	0500	0388	3486	2771	0004401	0277	14744																	
		OBS	0500	0388	34863	2771			14744																	
		STD	0600	0383	3486	2772	0004431	0322	14759																	
		OBS	0600	0383	34864	2772			14759																	
		STD	0700	0380	3487	2773	0004418	0366	14774																	
		OBS	0700	0380	34873	2773			14774																	
		STD	0800	0379	3489	2774	0004380	0410	14791																	
		OBS	0800	0379	34889	2774			14791																	
		STD	0900	0380	3490	2775	0004408	0454	14808																	
		OBS	0900	0380	34898	2775			14808																	
		STD	1000	0375	3490	2775	0004431	0498	14822																	
		OBS	1000	0375	34899	2775			14822																	
		STD	1100	0369	3490	2776	0004439	0542	14837																	
		OBS	1100	0369	34900	2776			14837																	
		STD	1200	0363	3491	2777	0004374	0586	14851																	
		OBS	1200	0363	34910	2777			14851																	
		STD	1300	0360	3491	2778	0004411	0630	14866																	
		OBS	1300	0360	34911	2778			14866																	
		STD	1400	0358	3492	2779	0004407	0674	14882																	
		OBS	1400	0358	34920	2779			14882																	
		STD	1500	0350	3492	2780	0004371	0718	14896																	
		OBS	1500	0350	34921	2780			14896																	

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	DIR.			HGT	PER	SEA	TYPE	AMT				
318039	EV	48190N	046130W	149	86	06	19	001	1968	003	10256	1097	1	10	2	3		X6	0	3		0217
					WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB	VIS. CODE										
					DT	SD	11	511	264	061	061	5	35									
MESSNGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C					
		STD	3000	0502	3393	2685	0012111	0000	14697													
001		OBS	0000	0502	33931	2685			14697													
		STD	0010	0453	3397	2693	0011316	0011	14679													
		OBS	0010	0453	33970	2693			14679													
002		STD	0020	0432	3397	2696	0011108	0022	14671													
		OBS	0020	0432	33970	2696			14671													
		OBS	0025	0402	33973	2699			14660													
		STD	0030	0346	3402	2709	0009873	0033	14637													
		OBS	0030	0346	34025	2709			14637													
		OBS	0032	0323	34150	2721			14630													
		OBS	0045	0314	34280	2732			14630													
		STD	0050	0280	3435	2741	0006854	0050	14617													
		OBS	0050	0280	34350	2741			14617													
		OBS	0057	0258	34380	2745			14609													
		STD	0075	0331	3461	2757	0005346	0065	14646													
		OBS	0075	0331	34612	2757			14646													
		OBS	0087	0331	34650	2760			14649													
		STD	0100	0355	3469	2761	0005002	0078	14662													
		OBS	0100	0355	34690	2761			14662													
		OBS	0114	0366	34709	2761			14669													
		STD	0125	0361	3472	2762	0004872	0090	14669													
		OBS	0125	0361	34718	2762			14669													
		OBS	0130	0366	34722	2762			14672													
		OBS	0135	0358	34735	2764			14669													
		STD	0150	0361	3476	2766	0004542	0102	14674													
		OBS	0150	0361	34765	2766			14674													
		OBS	0155	0374	34779	2766			14680													
		OBS	0175	0374	34790	2767			14684													
		OBS	0180	0387	34799	2766			14690													
		STD	0200	0393	3482	2767	0004511	0125	14696													
		OBS	0200	0393	34818	2767			14696													
		STD	0250	0402	3486	2769	0004357	0147	14709													
		OBS	0250	0402	34858	2769			14709													
		STD	0300	0409	3486	2769	0004447	0169	14720													
		OBS	0300	0409	34862	2769			14720													
		OBS	0355	0400	34881	2771			14725													
		OBS	0385	0410	34882	2770			14735													
		STD	0400	0407	3488	2770	0004390	0213	14736													
		OBS	0400	0407	34880	2770			14736													
		OBS	0435	0395	34870	2771			14736													
		OBS	0465	0396	34886	2772			14742													
		OBS	0480	0410	34899	2772			14751													
		STD	0500	0405	3491	2773	0004243	0256	14752													
		OBS	0500	0405	34909	2773			14752													
		STD	0600	0394	3490	2774	0004278	0299	14764													
		OBS	0600	0394	34901	2774			14764													
		STD	0700	0386	3490	2774	0004286	0342	14777													
		OBS	0700	0386	34900	2774			14777													
		STD	0800	0378	3490	2775	0004281	0384	14790													
		OBS	0800	0378	34901	2775			14790													
		STD	0900	0373	3491	2776	0004251	0427	14805													
		OBS	0900	0373	34908	2776			14805													
		STD	1000	0368	3491	2777	0004237	0469	14820													
		OBS	1000	0368	34914	2777			14820													

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
CTRY CODE	ID. NO.					10°	1°	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA	TYPE	AMT	

318039	EV	47580N	046100W	149	76	06	19	023	1968	003	10257	1152	1	11	1	2		X6	013	0218
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WATER		WIND		BARO-		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB				

DT	SD	12	S12	257	061	061	5	24		
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	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	0503	3395	2686	0012012	0000	14697								
023		OBS	0000	0503	33946	2686			14697								
		OBS	0005	0374	33801	2688			14642								
		STD	0010	0384	3398	2701	0010555	0011	14650								
001		OBS	0010	0384	33980	2701			14650								
		STD	0020	0378	3399	2703	0010400	0021	14649								
		OBS	0020	0378	33994	2703			14649								
		OBS	0025	0376	33999	2704			14649								
		STD	0030	0335	3398	2706	0010107	0032	14632								
		OBS	0030	0335	33980	2706			14632								
		OBS	0047	0245	33948	2712			14596								
		STD	0050	0254	3399	2714	0009352	0051	14601								
		OBS	0050	0254	33990	2714			14601								
		OBS	0073	0249	34400	2747			14608								
		STD	0075	0253	3442	2748	0006125	0070	14610								
		OBS	0075	0253	34418	2748			14610								
		STD	0100	0302	3457	2756	0005421	0085	14638								
		OBS	0100	0302	34570	2756			14638								
		STD	0125	0307	3462	2759	0005134	0098	14645								
		OBS	0140	0342	34678	2761			14663								
		STD	0150	0378	3473	2762	0004954	0111	14680								
		OBS	0150	0378	34733	2762			14680								
		STD	0200	0446	3490	2768	0004456	0134	14719								
		OBS	0200	0446	34900	2768			14719								
		STD	0250	0447	3488	2766	0004672	0157	14728								
		OBS	0250	0447	34880	2766			14728								
		STD	0300	0445	3490	2768	0004572	0180	14735								
		OBS	0300	0445	34898	2768			14735								
		STD	0400	0446	3492	2769	0004526	0226	14753								
		OBS	0400	0446	34919	2769			14753								
		STD	0500	0435	3491	2770	0004538	0271	14765								
		OBS	0500	0435	34915	2770			14765								
		STD	0600	0414	3491	2772	0004459	0316	14772								
		OBS	0600	0414	34907	2772			14772								
		STD	0700	0398	3490	2773	0004431	0360	14782								
		OBS	0700	0398	34899	2773			14782								
		STD	0800	0384	3490	2774	0004381	0404	14793								
		OBS	0800	0384	34896	2774			14793								
		STD	0900	0376	3489	2775	0004391	0448	14806								
		OBS	0900	0376	34894	2775			14806								
		STD	1000	0369	3490	2776	0004337	0492	14820								
		OBS	1000	0369	34902	2776			14820								
		OBS	1050	0363	34914	2778			14826								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MAGNETIC DECL.	MARS DEN SQUARE				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10°	1°	MO	OAY	HR.1/10	CRUISE ND.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		47400N	046100W		149	76	06	19	043	1968	003	10258	1079	1	12	1	3	X6	0	3	0219
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
OT	SD	18	S08	244	067	067	4	32														
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si D ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	0477	3368	2668	0013713	0000	14683													
043		OBS	0000	0477	33683	2668			14683													
		STD	0010	0323	3379	2692	0011412	0012	14621													
		OBS	0010	0323	33792	2692			14621													
002		OBS	0012	0295	33835	2698			14610													
		STD	0020	0308	3390	2702	0010496	0023	14618													
		OBS	0020	0308	33896	2702			14618													
		OBS	0022	0315	33918	2703			14621													
		OBS	0025	0270	33927	2708			14603													
		STD	0030	0243	3396	2713	0009467	0033	14592													
		OBS	0038	0232	34084	2724			14590													
		OBS	0046	0261	34285	2737			14607													
		STD	0050	0260	3432	2740	0006897	0049	14608													
		OBS	0050	0260	34322	2740			14608													
		OBS	0063	0254	34420	2748			14609													
		STD	0075	0260	3447	2752	0005801	0065	14614													
		OBS	0075	0260	34469	2752			14614													
		STD	0100	0292	3455	2756	0005446	0079	14633													
		OBS	0100	0292	34554	2756			14633													
		STD	0125	0322	3463	2759	0005166	0093	14651													
		OBS	0125	0322	34630	2759			14651													
		STD	0150	0333	3469	2763	0004838	0105	14661													
		OBS	0150	0333	34690	2763			14661													
		STD	0200	0378	3477	2765	0004684	0129	14689													
		OBS	0200	0378	34775	2765			14689													
		OBS	0227	0435	34870	2767			14719													
		STD	0250	0435	3488	2767	0004575	0152	14723													
		OBS	0250	0435	34875	2767			14723													
		OBS	0258	0444	34870	2766			14728													
		OBS	0271	0428	34861	2767			14723													
		OBS	0275	0446	34885	2767			14732													
		STD	0300	0449	3491	2769	0004494	0175	14737													
		OBS	0300	0449	34914	2769			14737													
		OBS	0327	0435	34889	2768			14736													
		OBS	0338	0448	34929	2770			14743													
		STD	0400	0431	3491	2770	0004458	0219	14746													
		OBS	0400	0431	34906	2770			14746													
		OBS	0411	0438	34922	2770			14751													
		STD	0500	0417	3491	2772	0004382	0264	14757													
		OBS	0500	0417	34909	2772			14757													
		STD	0600	0403	3491	2773	0004327	0307	14768													
		OBS	0600	0403	34908	2773			14768													
		STD	0700	0389	3490	2774	0004318	0350	14778													
		OBS	0700	0389	34900	2774			14778													
		STD	0800	0379	3490	2775	0004300	0394	14791													
		OBS	0800	0379	34899	2775			14791													
		STD	0900	0369	3490	2776	0004260	0436	14803													
		OBS	0900	0369	34901	2776			14803													
		OBS	0960	0361	34918	2778			14810													
		STD	1000	0359	3492	2779	0004082	0478	14816													
		OBS	1000	0359	34921	2779			14816													

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

318039	EV	47190N	046100W	149	76	06	19	066	1968	003	10259	0439	1	12	1	3		X6	0	3	0220
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	21	SUB	240	089	089	4	27	
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MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C C
		STD	0000	0698	3369	2641	0016256	0000	14773								
066		OBS	0000	0698	33690	2641			14773								
		STD	0010	0609	3369	2653	0015155	0015	14739								
		OBS	0010	0609	33690	2653			14739								
		STD	0020	0604	3369	2654	0015086	0030	14738								
001		OBS	0020	0604	33693	2654			14738								
		OBS	0023	0595	33712	2656			14736								
		OBS	0025	0609	33730	2656			14742								
		OBS	0027	0614	33738	2656			14744								
		STD	0030	0607	3375	2658	0014710	0045	14742								
		OBS	0030	0607	33750	2658			14742								
		STD	0050	0622	3385	2664	0014141	0074	14753								
		OBS	0050	0622	33854	2664			14753								
		OBS	0072	0339	33840	2695			14639								
		STD	0075	0345	3394	2702	0010519	0105	14643								
		OBS	0075	0345	33942	2702			14643								
		OBS	0084	0384	34202	2719			14665								
		OBS	0093	0358	34190	2721			14655								
		STD	0100	0395	3440	2734	0007573	0128	14675								
		OBS	0100	0395	34400	2734			14675								
		OBS	0117	0429	34450	2734			14693								
		OBS	0122	0413	34447	2735			14687								
		STD	0125	0430	3449	2737	0007281	0146	14695								
		OBS	0125	0430	34490	2737			14695								
		OBS	0128	0436	34500	2737			14698								
		OBS	0132	0411	34477	2738			14688								
		STD	0150	0427	3450	2738	0007197	0164	14698								
		OBS	0150	0427	34500	2738			14698								
		OBS	0157	0403	34542	2744			14690								
		STD	0200	0455	3476	2756	0005630	0196	14721								
		OBS	0200	0455	34757	2756			14721								
		STD	0250	0448	3482	2761	0005149	0223	14727								
		OBS	0250	0448	34818	2761			14727								
		OBS	0265	0457	34858	2763			14734								
		STD	0300	0448	3488	2766	0004762	0248	14736								
		OBS	0300	0448	34877	2766			14736								
		OBS	0338	0435	3589P	2648P											
		OBS	0373	0400	34860	2770			14728								
		OBS	0387	0396	34895	2773			14730								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WIND DIR SPEED KTS	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		
318039	EV		47000N	046100W		149	76	06	19	082	1968	003	10260	0311	1	19	1	2		X6	0 3	0221
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB									
						DT	SD	20	S10	240	100	100	2									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ OVN. 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	1 C C				
		STD	0000	0730	3381	2646	0015776		0000	14787												
082		OBS	0000	0730	33810	2646				14787												
		STD	0010	0652	3375	2652	0015237		0015	14757												
		OBS	0010	0652	33750	2652				14757												
		STD	0020	0609	3379	2661	0014417		0030	14742												
001		OBS	0020	0609	33790	2661				14742												
		OBS	0025	0615	33827	2663				14745												
		STD	0030	0620	3383	2663	0014232		0044	14748												
		OBS	0030	0620	33835	2663				14748												
		OBS	0037	0618	33850	2664				14749												
		OBS	0041	0635	33860	2663				14756												
		OBS	0045	0620	33900	2668				14752												
		STD	0050	0650	3408	2678	0012797		0071	14767												
		OBS	0050	0650	34080	2678				14767												
		OBS	0072	0733	34250	2680				14805												
		STD	0075	0654	3410	2679	0012734		0103	14773												
		OBS	0075	0654	34100	2679				14773												
		OBS	0080	0645	34333	2699				14773												
		OBS	0090	0685	34475	2705				14792												
		STD	0100	0684	3449	2706	0010258		0132	14794												
		OBS	0100	0684	34490	2706				14794												
		OBS	0109	0664	34450	2706				14787												
		OBS	0120	0610	34360	2706				14766												
		STD	0125	0516	3432	2714	0009498		0157	14728												
		OBS	0125	0516	34320	2714				14728												
		OBS	0130	0515	34320	2714				14729												
		OBS	0137	0451	34291	2719				14703												
		STD	0150	0438	3426	2718	0009111		0180	14699												
		OBS	0150	0438	34260	2718				14699												
		OBS	0164	0406	34380	2731				14690												
		OBS	0188	0491	34670	2745				14733												
		STD	0200	0491	3466	2744	0006719		0219	14735												
		OBS	0200	0491	34665	2744				14735												
		OBS	0230	0385	34620	2752				14695												
		STD	0250	0448	3480	2759	0005302		0249	14727												
		OBS	0250	0448	34797	2759				14727												
		OBS	0262	0462	34835	2761				14735												
		OBS	0288	0464	34895	2765				14741												

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSEEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
					10'	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318039	EV	47000N	046310W	149	76	06	19	097	1968	003	10261	0494	1	20	1	2		X6	0	3	0222
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB									
					DT	SD	20	S08	230		088	088	2	30							

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OVN, 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	0729	3376	2642	0016138	0000	14786								
097		OBS	0000	0729	33760	2642			14786								
		STD	0010	0656	3376	2652	0015229	0015	14758								
		OBS	0010	0656	33757	2652			14758								
		STD	0020	0638	3376	2655	0014997	0030	14753								
001		OBS	0020	0638	33760	2655			14753								
		OBS	0025	0636	33764	2655			14753								
		STD	0030	0632	3377	2656	0014884	0045	14752								
		OBS	0030	0632	33767	2656			14752								
		OBS	0042	0627	33779	2658			14752								
		STD	0050	0325	3325	2649	0015542	0076	14621								
		OBS	0050	0325	33250	2649			14621								
		OBS	0055	0450	33952	2692			14684								
		OBS	0059	0304	33700	2687			14620								
		OBS	0062	0404	34040	2704			14668								
		STD	0075	0369	3416	2717	0009107	0107	14656								
		OBS	0075	0369	34160	2717			14656								
		OBS	0098	0358	34305	2730			14658								
		STD	0100	0371	3435	2732	0007675	0127	14664								
		OBS	0100	0371	34355	2732			14664								
		OBS	0115	0427	34490	2737			14692								
		STD	0125	0389	3444	2737	0007242	0146	14677								
		OBS	0125	0389	34440	2737			14677								
		OBS	0140	0418	34590	2746			14694								
		STD	0150	0280	3440	2745	0006538	0163	14634								
		OBS	0150	0280	34400	2745			14634								
		OBS	0152	0272	34420	2747			14631								
		OBS	0165	0398	34592	2749			14689								
		OBS	0175	0447	34750	2756			14714								
		OBS	0190	0453	34748	2755			14719								
		OBS	0197	0444	34785	2759			14717								
		STD	0200	0454	3479	2758	0005378	0193	14721								
		OBS	0200	0454	34789	2758			14721								
		OBS	0233	0448	34830	2762			14725								
		STD	0250	0471	3487	2763	0005001	0219	14738								
		OBS	0250	0471	34872	2763			14738								
		OBS	0267	0462	34880	2765			14737								
		OBS	0274	0461	34890	2765			14738								
		STD	0300	0455	3489	2766	0004741	0243	14739								
		OBS	0300	0455	34890	2766			14739								
		OBS	0330	0452	34900	2767			14743								
		OBS	0348	0418	34910	2772			14741								

REFERENCE	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DATE MO DAY HR.1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			CLOUD CODES	NDDC STATION NUMBER			
						CRUISE NO.	STATION NUMBER			DIR	HGT	PER					
318039	EV	47000N	046450W	149 76 06 19 107	1968	003	10262	1189	1	20	1	2	X2	0223			
WATER			WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS					
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mba)	DRY BULB	WET BULB											
OT	SD	20	S08	227	072	072	2	37									
MESSENGR TIME HR 1/10	CASD ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CTC
		STD	0000	0468	3338	2645	0015894	0000	14675								
107		OBS	0000	0468	33380	2645			14675								
		OBS	0007	0337	33380	2658			14621								
		STD	0010	0344	3356	2672	0013348	0014	14627								
005		OBS	0010	0344	33560	2672			14627								
		STD	0020	0335	3364	2679	0012667	0027	14626								
		OBS	0020	0335	33640	2679			14626								
		OBS	0025	0289	33580	2678			14606								
		STD	0030	0250	3360	2683	0012260	0040	14590								
		OBS	0030	0250	33600	2683			14590								
		OBS	0035	0212	33650	2690			14575								
		OBS	0045	0203	33720	2697			14574								
		STD	0050	0362	3427	2727	0008192	0060	14651								
		OBS	0050	0362	34270	2727			14651								
		OBS	0053	0378	34290	2727			14658								
		STD	0075	0339	3427	2729	0007991	0080	14645								
		OBS	0075	0339	34270	2729			14645								
		OBS	0093	0369	34440	2739			14663								
		STD	0100	0230	3429	2740	0006917	0099	14603								
		OBS	0100	0230	34290	2740			14603								
		OBS	0103	0230	34300	2741			14603								
		STD	0125	0266	3447	2751	0005887	0115	14625								
		STD	0150	0311	3461	2759	0005234	0129	14650								
		OBS	0150	0311	34610	2759			14650								
		OBS	0185	0380	34720	2761			14687								
		STD	0200	0376	3471	2760	0005151	0155	14687								
		OBS	0200	0376	34710	2760			14687								
		OBS	0220	0404	34788	2764			14704								
		OBS	0225	0392	34780	2764			14699								
		STD	0250	0431	3486	2766	0004645	0179	14721								
		OBS	0250	0431	34860	2766			14721								
		OBS	0260	0439	34860	2765			14726								
		OBS	0272	0407	34800	2764			14714								
		OBS	0293	0417	34860	2768			14722								
		STD	0300	0412	3483	2766	0004718	0203	14721								
		OBS	0300	0412	34830	2766			14721								
		OBS	0321	0402	34835	2767			14720								
		OBS	0350	0439	34890	2768			14741								
		OBS	0371	0420	34870	2768			14736								
		STD	0400	0426	3489	2769	0004525	0249	14744								
		OBS	0400	0426	34890	2769			14744								
		OBS	0450	0432	34908	2770			14755								
		OBS	0485	0428	34900	2770			14759								
		STD	0500	0418	3489	2770	0004536	0294	14757								
		OBS	0500	0418	34890	2770			14757								
		STD	0600	0399	3489	2772	0004392	0339	14766								
		OBS	0600	0399	34893	2772			14766								
		STD	0700	0387	3489	2774	0004359	0383	14777								
		OBS	0700	0387	34892	2774			14777								
		STD	0800	0377	3489	2774	0004341	0426	14790								
		OBS	0800	0377	34891	2774			14790								
		STD	0900	0369	3489	2775	0004322	0469	14803								
		OBS	0900	0369	34893	2775			14803								
		STD	1000	0368	3490	2776	0004308	0513	14819								
		OBS	1000	0368	34904	2776			14819								
		OBS	1050	0366	34912	2777			14827								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'WPL'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	TPL	AMT	
318039	EV		46590N	047000W	149	67	06	19	123	1968	003	10263	1097	1	20	1	2		X2	03	0224
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)		DRY BULB	WET BULB												
		DT	SD	21	509	227		083	083	2	26										
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S CC				
		STD	0000	0360	3335	2654	0015070	0000	14629												
123		OBS	0000	0360	33350	2654			14629												
		STD	0010	0360	3368	2680	0012589	0013	14636												
		OBS	0010	0360	33680	2680			14636												
		STD	0020	0320	3370	2685	0012088	0026	14620												
003		OBS	0020	0320	33700	2685			14620												
		OBS	0025	0235	33752	2697			14585												
		STD	0030	0240	3382	2702	0010515	0037	14589												
		OBS	0030	0240	33820	2702			14589												
		OBS	0040	0289	33690	2703			14613												
		STD	0050	0298	3391	2704	0010324	0058	14619												
		OBS	0050	0298	33910	2704			14619												
		OBS	0065	0210	34060	2723			14585												
		STD	0075	0205	3410	2727	0008154	0081	14585												
		OBS	0075	0205	34100	2727			14585												
		OBS	0090	0162	34210	2739			14570												
		OBS	0095	0224	34290	2741			14599												
		STD	0100	0217	3432	2744	0006589	0099	14597												
		OBS	0100	0217	34320	2744			14597												
		STD	0125	0250	3446	2752	0005809	0115	14618												
		OBS	0125	0250	34460	2752			14618												
		STD	0150	0287	3458	2758	0005234	0129	14639												
		OBS	0150	0287	34581	2758			14639												
		STD	0200	0351	3470	2762	0004976	0154	14677												
		OBS	0200	0351	34700	2762			14677												
		STD	0250	0386	3478	2765	0004734	0178	14701												
		OBS	0250	0386	34785	2765			14701												
		STD	0300	0402	3483	2767	0004612	0202	14717												
		OBS	0300	0402	34830	2767			14717												
		STD	0400	0418	3487	2769	0004580	0248	14740												
		OBS	0400	0418	34870	2769			14740												
		STD	0500	0425	3488	2769	0004687	0294	14760												
		OBS	0500	0425	34880	2769			14760												
		OBS	0510	0418	34895	2771			14759												
		OBS	0550	0422	34910	2771			14767												
		STD	0600	0410	3490	2772	0004471	0340	14770												
		OBS	0600	0410	34899	2772			14770												
		STD	0700	0398	3490	2773	0004422	0384	14782												
		OBS	0700	0398	34900	2773			14782												
		STD	0800	0389	3490	2774	0004409	0429	14795												
		OBS	0800	0389	34900	2774			14795												
		STD	0900	0373	3489	2775	0004384	0473	14805												
		OBS	0900	0373	34890	2775			14805												
		STD	1000	0370	3490	2776	0004366	0516	14820												
		OBS	1000	0370	34900	2776			14820												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WIND INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	OBS.				DIR.	HGT	PER		SEA	TYPE		AMT		
318039		EV	47000N	047140W		149	77	06	19	135	1968	003	10264	0366	1	20	1	2		X2	0	3		0225			
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	mbar		DRY BULB	WET BULB																		
		DT	SD	22	S09	220	083	083	2					18													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO 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	COND.										
	135	STD	0000	0332	3289	2620	0018293	0000	14611																		
		OBS	0000	0332	32890	2620			14611																		
		STD	0010	0162	3318	2657	0014764	0016	14543																		
		OBS	0010	0162	33185	2657			14543																		
	002	STD	0020	0176	3334	2669	0013653	0030	14553																		
		OBS	0020	0176	33344	2669			14553																		
		OBS	0025	0184	33367	2670			14557																		
		STD	0030	0190	3336	2669	0013630	0044	14561																		
		OBS	0030	0190	33360	2669			14561																		
		STD	0050	0040	3352	2691	0011490	0069	14499																		
		OBS	0050	0040	33520	2691			14499																		
		OBS	0065	0060	33580	2695			14511																		
		STD	0075	-0014	3370	2709	0009842	0096	14481																		
		OBS	0075	-0014	33700	2709			14481																		
		STD	0100	0050	3395	2725	0008266	0118	14518																		
		OBS	0100	0050	33950	2725			14518																		
		OBS	0115	0105	34000	2726			14546																		
		OBS	0120	0082	34060	2732			14537																		
		STD	0125	0110	3416	2739	0006997	0137	14552																		
		OBS	0125	0110	34165	2739			14552																		
		OBS	0145	0150	34214	2740			14574																		
		STD	0150	0180	3434	2748	0006201	0154	14589																		
		OBS	0150	0180	34336	2748			14589																		
		STD	0200	0275	3453	2756	0005504	0183	14642																		
		OBS	0200	0275	34535	2756			14642																		
		STD	0250	0342	3470	2763	0004931	0209	14681																		
		OBS	0250	0342	34700	2763			14681																		
		STD	0300	0378	3474	2763	0005016	0234	14705																		
		OBS	0300	0378	34742	2763			14705																		
		OBS	0305	0382	34750	2763			14708																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	47000N	047300W		149	77	06	19	146	1968	003	10265	0216	1	20	1	3		X2	0	3		0226
							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																
OT	SD	22	509			196	083	083	2	12														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO 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 CC							
		STD	0000	0364	3256	2591	0021065	0000	14620															
	146	OBS	0000	0364	32560	2591			14620															
		STD	0010	0185	3264	2612	0019019	0020	14545															
		OBS	0010	0185	32644	2612			14545															
	002	STD	0020	0115	3268	2620	0018265	0038	14516															
		OBS	0020	0115	32685	2620			14516															
		OBS	0025	0094	32760	2627			14509															
		STD	0030	0084	3284	2634	0016922	0056	14506															
		OBS	0030	0084	32838	2634			14506															
		STD	0050	-0130	3303	2659	0014547	0087	14413															
		OBS	0050	-0130	33030	2659			14413															
		OBS	0062	-0152	33270	2679			14408															
		STD	0075	-0062	3346	2691	0011466	0120	14455															
		OBS	0075	-0062	33460	2691			14455															
		OBS	0090	-0014	33500	2692			14481															
		STD	0100	0000	3355	2696	0011040	0148	14489															
		OBS	0100	0000	33551	2696			14489															
		STD	0125	0042	3378	2712	0009516	0174	14516															
		OBS	0125	0042	33780	2712			14516															
		STD	0150	0111	3396	2723	0008560	0196	14554															
		OBS	0150	0111	33961	2723			14554															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUST PROCT	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
CTRY CODE	10. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318039	EV	47000N	047425W	149	77	06	19	154	1968	003	10266	0188	1	20	1	2		X4	0	3		0227		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
DT	SD	22	S08	200	067	067	2	11																
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	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH								
		STD	0000	0404	3253	2584	0021654	0000	14637															
	154	OBS	0000	0404	32530	2584			14637															
		STD	0010	0224	3254	2601	0020088	0020	14561															
		OBS	0010	0224	32540	2601			14561															
		STD	0020	0216	3255	2602	0019954	0040	14559															
	002	OBS	0020	0216	32550	2602			14559															
		OBS	0025	0172	32520	2603			14540															
		STD	0030	0120	3250	2605	0019704	0060	14518															
		OBS	0030	0120	32500	2605			14518															
		STD	0050	-0064	3282	2640	0016357	0096	14441															
		OBS	0050	-0064	32821	2640			14441															
		STD	0075	-0117	3298	2654	0014949	0135	14423															
		OBS	0075	-0117	32980	2654			14423															
		OBS	0081	-0139	33020	2658			14414															
		STD	0100	-0123	3316	2669	0013532	0171	14427															
		OBS	0100	-0123	33160	2669			14427															
		STD	0125	-0056	3336	2683	0012232	0203	14465															
		OBS	0125	-0056	33360	2683			14465															
		STD	0150	0050	3370	2705	0010166	0231	14522															
		OBS	0150	0050	33700	2705			14522															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUFF INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	47000N	048000W		149	78	06	19	166	1968	003	10267	0152	1	20	1	2		X2	0	3	0228
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	20	S12		190	067					067	2	15				
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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH					
		STD	0000	0461	3260	2584		0021681		0000	14662												
	166	OBS	0000	0461	32600	2584					14662												
		STD	0010	0250	3256	2600		0020134		0020	14573												
		OBS	0010	0250	32559	2600					14573												
		OBS	0015	0243	32579	2602					14571												
	002	STD	0020	0242	3258	2603		0019929		0040	14571												
		OBS	0020	0242	32579	2603					14571												
		OBS	0025	0223	32570	2603					14564												
		STD	0030	0211	3257	2605		0019730		0060	14559												
		OBS	0030	0211	32575	2605					14559												
		OBS	0040	0156	32555	2607					14536												
		STD	0050	-0029	3272	2630		0017266		0097	14456												
		OBS	0050	-0029	32720	2630					14456												
		STD	0075	-0143	3306	2662		0014257		0137	14412												
		OBS	0075	-0143	33060	2662					14412												
		OBS	0083	-0130	33100	2664					14420												
		OBS	0095	-0119	33250	2676					14429												
		STD	0100	-0045	3332	2679		0012598		0170	14465												
		OBS	0100	-0045	33320	2679					14465												
		OBS	0110	-0021	33520	2694					14481												
		OBS	0115	0028	33540	2694					14504												
		STD	0125	0014	3355	2695		0011120		0200	14500												
		OBS	0125	0014	33549	2695					14500												

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			OBSERVATIONS					TYPE	AMT	
						DIR.	HGT	PER	SEA														
318039		EV	47000N	048150W		149	78	06	19	176	1968	003	10268	0137	1	20	2	2		X4	0	3	0229
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	20	S16		180	072					072	2	13				
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH		S C C		
		STD	0000	0470	3262	2585		0021627		0000		14666											
176		OBS	0000	0470	32620	2585						14666											
		OBS	0005	0350	32593	2594						14616											
		STD	0010	0318	3265	2602		0020000		0020		14604											
002		OBS	0010	0318	32649	2602						14604											
		STD	0020	0308	3264	2602		0019959		0040		14601											
		OBS	0020	0308	32643	2602						14601											
		OBS	0025	0288	32609	2601						14593											
		STD	0030	0200	3250	2600		0020181		0060		14553											
		OBS	0030	0200	32505	2600						14553											
		OBS	0040	0080	32680	2622						14504											
		STD	0050	-0009	3290	2644		0015976		0097		14468											
		OBS	0050	-0009	32900	2644						14468											
		OBS	0063	-0025	33070	2658						14465											
		STD	0075	-0014	3320	2669		0013616		0134		14474											
		OBS	0075	-0014	33205	2669						14474											
		OBS	0090	0005	33360	2680						14487											
		STD	0100	0031	3350	2690		0011581		0165		14503											
		OBS	0100	0031	33500	2690						14503											
		OBS	0120	0059	33620	2698						14520											

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
						WATER		WIND		BARO- METER (mbars)		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
318039		EV	44380N	049200W		149	49	06	20	063	1968	003	10269	0062	1	22	1	2		X0	0	3	0230
						DT	SD	26	S10	210	089	089	8	07									
MESSNGR TIME HR 1/10	CAS 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	Si O ₄ -Si μg - at/l	pH		S CC		
		STD	0000	0637	3260	2564		0023593		0000		14734											
063		OBS	0000	0637	32605	2564						14734											
		OBS	0001	0455	32660	2589						14660											
002		OBS	0008	0450	32696	2593						14660											
		STD	0010	0440	3269	2594		0020782		0022		14656											
		OBS	0010	0440	32693	2594						14656											
		STD	0020	0295	3276	2612		0019008		0042		14597											
		OBS	0025	0251	32798	2619						14579											
		STD	0030	0225	3285	2625		0017766		0060		14569											
		OBS	0030	0225	32848	2625						14569											
		STD	0050	0156	3301	2643		0016044		0094		14544											
		OBS	0050	0156	33012	2643						14544											

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER													
						10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT												
318039		EV	44350N	049040W		149	49	06	20	076	1968	003	10270	0068	1	22	1	2		X0	0	3	0231												
						WATER		WIND		BARO- METER		AIR TEMP. °C																							
						COLOR CODE		TRANS. mm		DIR. SPEED OR FORCE		IMB		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS													
						DT		SD		21		S08		210		089		089		7		08													
MESSENGER TIME HR 1/10		CAST NO.		CARD TYPE		DEPTH (m)		T °C		S ‰		SIGMA-T		SPECIFIC VOLUME ANOMALY-K10?		Σ Δ D DYN. M. 10 ³		SOUND VELOCITY		O ₂ ml/l		PO ₄ -P μg - ml/l		TOTAL-P μg - ml/l		NO ₂ -N μg - ml/l		NO ₃ -N μg - ml/l		SiO ₄ -Si μg - ml/l		pH		S CC	
				STD		0000		0583		3267		2576		0022433		0000		14713																	
076		OBS		0000		0583		32675		2576								14713																	
		STD		0010		0420		3260		2588				0021289		0021		14646																	
		OBS		0010		0420		32600		2588								14646																	
002		STD		0020		0240		3264		2608				0019448		0042		14571																	
		OBS		0020		0240		32640		2608								14571																	
		OBS		0025		0115		32808		2630								14519																	
		STD		0030		0081		3286		2636				0016750		0060		14505																	
		OBS		0030		0081		32858		2636								14505																	
		OBS		0037		0045		32935		2644								14491																	
		STD		0050		0044		3295		2645				0015848		0092		14493																	
		OBS		0050		0044		32951		2645								14493																	
		OBS		0057		0041		32955		2646								14493																	

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	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	
318039	EV		44335N	048570W	149	48	06	20	083	1968		003	10271	0732	1	22	1	2		X1	03	0232
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
						DT	SD	22	S08	213	094	089	8	26								

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE
		STD	0000	0479	3266	2587	0021427	0000	14670								
	083	OBS	0000	0479	32658	2587			14670								
		STD	0010	0200	3265	2612	0019064	0020	14552								
		OBS	0010	0200	32652	2612			14552								
		STD	0020	0017	3267	2624	0017852	0038	14472								
	002	OBS	0020	0017	32671	2624			14472								
		OBS	0025	-0079	32707	2631			14429								
		STD	0030	-0104	3274	2635	0016861	0056	14418								
		OBS	0030	-0104	32739	2635			14418								
		OBS	0040	-0129	33133	2667			14414								
		STD	0050	-0129	3318	2671	0013409	0086	14416								
		OBS	0050	-0129	33178	2671			14416								
		OBS	0072	-0115	33278	2678			14428								
		STD	0075	-0095	3330	2680	0012542	0118	14438								
		OBS	0075	-0095	33304	2680			14438								
		OBS	0090	0024	33611	2700			14499								
		STD	0100	0032	3363	2701	0010598	0147	14505								
		OBS	0100	0032	33631	2701			14505								
		STD	0125	0056	3370	2705	0010215	0173	14521								
		OBS	0125	0056	33698	2705			14521								
		STD	0150	0064	3374	2708	0009929	0198	14529								
		OBS	0150	0064	33742	2708			14529								
		STD	0200	0085	3381	2712	0009552	0247	14548								
		OBS	0200	0085	33808	2712			14548								
		OBS	0243	0101	33895	2718			14563								
		STD	0250	0123	3397	2723	0008564	0292	14576								
		OBS	0250	0123	33973	2723			14576								
		OBS	0280	0252	34400	2747			14643								
		STD	0300	0300	3453	2754	0005801	0328	14669								
		OBS	0300	0300	34535	2754			14669								
		OBS	0320	0343	34639	2758			14692								
		OBS	0350	0355	34649	2757			14702								
		STD	0400	0395	3476	2762	0005176	0383	14729								
		OBS	0400	0395	34757	2762			14729								
		OBS	0450	0409	34779	2762			14744								
		STD	0500	0414	3481	2764	0005094	0435	14754								
		OBS	0500	0414	34809	2764			14754								
		STD	0600	0425	3487	2768	0004859	0484	14776								
		OBS	0600	0425	34870	2768			14776								
		OBS	0650	0426	34880	2768			14785								
		STD	0700	0420	3488	2770	0004789	0533	14791								
		OBS	0700	0420	34885	2770			14791								

REFERENCE STATION CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
						10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
										BARO- METER (mba)	AIR TEMP. °C														VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB																	WET BULB
318039	EV	44310N	048440W	149	48	06	20	094	1968	003	10272	1792	1	22	0	2		X1	0	3		0233						

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSSEN 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				
CITY CODE	IO. NO.						10"	1"	MO		DAY	HR, 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT		
318039	EV		44285N	04829 W		149	48	06	20	111	1968	003	10273		2505	1	22	2	2			X1	0	3		0234
							WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		mbs)		DRY BULB		WET BULB														
DT		SD		25		508		224		122		100														

318039	EV	44285N	04829 W		149	48	06	20	111	1968	003	10273	2505	1	22	2	2		X1	0	3	0234
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
PT	SD	25	S08	224	122	100	7	31	

DT	SD	25	508	224	122	100	7	31	
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MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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 COND
		STD	0000	0555	3296	2602	0019987	0000	14706								
111		OBS	0000	0555	32959	2602			14706								
		STD	0010	0600	3332	2625	0017816	0018	14730								
		OBS	0010	0600	33320	2625			14730								
		STD	0020	0520	3327	2631	0017254	0036	14699								
003		OBS	0020	0520	33275	2631			14699								
		OBS	0025	0500	33400	2643			14693								
		STD	0030	0250	3354	2679	0012712	0051	14589								
		OBS	0030	0250	33540	2679			14589								
		OBS	0047	0135	33430	2678			14540								
		STD	0050	0177	3374	2700	0010660	0074	14563								
		OBS	0050	0177	33740	2700			14563								
		STD	0075	0300	3420	2727	0008173	0098	14628								
		OBS	0075	0300	34200	2727			14628								
		STD	0100	0360	3441	2738	0007158	0117	14660								
		OBS	0100	0360	34410	2738			14660								
		STD	0125	0582	3474	2739	0007102	0135	14761								
		OBS	0125	0582	34744	2739			14761								
		STD	0150	0402	3445	2737	0007314	0153	14687								
		OBS	0150	0402	34450	2737			14687								
		OBS	0155	0510	34600	2737			14734								
		OBS	0160	0350	34600	2754			14668								
		OBS	0175	0338	34550	2751			14665								
		OBS	0190	0400	34640	2752			14695								
		STD	0200	0376	3467	2757	0005447	0185	14687								
		OBS	0200	0376	34670	2757			14687								
		STD	0250	0425	3477	2760	0005252	0212	14717								
		OBS	0250	0425	34770	2760			14717								
		STD	0300	0462	3488	2765	0004898	0237	14742								
		OBS	0300	0462	34880	2765			14742								
		STD	0400	0462	3491	2767	0004775	0285	14759								
		OBS	0400	0462	34911	2767			14759								
		STD	0500	0442	3491	2769	0004663	0332	14767								
		OBS	0500	0442	34909	2769			14767								
		STD	0600	0439	3493	2771	0004575	0379	14783								
		OBS	0600	0439	34930	2771			14783								
		STD	0700	0421	3493	2773	0004479	0424	14792								
		OBS	0700	0421	34929	2773			14792								
		STD	0800	0403	3490	2773	0004543	0469	14801								
		OBS	0800	0403	34904	2773			14801								
		OBS	0825	0405	34910	2773			14806								
		STD	0900	0397	3490	2773	0004570	0515	14815								
		OBS	0900	0397	34904	2773			14815								
		STD	1000	0393	3491	2774	0004563	0560	14830								
		OBS	1000	0393	34910	2774			14830								
		STD	1100	0389	3491	2775	0004616	0606	14845								
		OBS	1100	0389	34909	2775			14845								
		STD	1200	0388	3492	2776	0004614	0652	14861								
		OBS	1200	0388	34919	2776			14861								
		STD	1300	0388	3493	2776	0004631	0699	14878								
		OBS	1300	0388	34929	2776			14878								
		STD	1400	0385	3493	2777	0004665	0745	14894								
		OBS	1400	0385	34931	2777			14894								
		STD	1500	0383	3494	2778	0004665	0792	14910								
		OBS	1500	0383	34939	2778			14910								

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318039	EV		44260N	048150W		149	48	06	20	138	1968	003	10274	3310	1	22	1	3		X1	0	3	0235
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
						DT	SD	20	S08		230	120	110	7	30								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C						
		STO	0000	0704	3297	2584	0021681	0000	14765														
138		OBS	0000	0704	32973	2584			14765														
		STO	0010	0487	3300	2613	0018954	0020	14680														
		OBS	0010	0487	33000	2613			14680														
		STO	0020	0415	3311	2629	0017412	0038	14653														
003		OBS	0020	0415	33109	2629			14653														
		OBS	0025	0410	33140	2632			14652														
		STO	0030	0350	3318	2641	0016274	0055	14628														
		OBS	0030	0350	33180	2641			14628														
		STO	0050	0200	3340	2671	0013401	0085	14569														
		OBS	0050	0200	33400	2671			14569														
		OBS	0068	0131	33700	2700			14545														
		STO	0075	0155	3388	2713	0009453	0113	14560														
		OBS	0075	0155	33880	2713			14560														
		STO	0100	0234	3415	2729	0007982	0135	14602														
		OBS	0100	0234	34154	2729			14602														
		STO	0125	0288	3437	2742	0006813	0153	14633														
		OBS	0125	0288	34370	2742			14633														
		STO	0150	0449	3466	2749	0006232	0170	14709														
		OBS	0150	0449	34660	2749			14709														
		OBS	0173	0468	34690	2749			14721														
		OBS	0196	0447	34714	2753			14717														
		STO	0200	0453	3474	2755	0005719	0200	14720														
		OBS	0200	0453	34742	2755			14720														
		STO	0250	0500	3488	2760	0005271	0227	14750														
		OBS	0250	0500	34880	2760			14750														
		OBS	0293	0511	34911	2761			14762														
		STO	0300	0500	3491	2763	0005105	0253	14758														
		OBS	0300	0500	34910	2763			14758														
		OBS	0346	0463	34900	2766			14751														
		STO	0400	0469	3493	2768	0004701	0302	14762														
		OBS	0400	0469	34932	2768			14762														
		STO	0500	0438	3492	2770	0004533	0348	14766														
		OBS	0500	0438	34920	2770			14766														
		STO	0600	0427	3493	2772	0004451	0393	14778														
		OBS	0600	0427	34928	2772			14778														
		STO	0700	0415	3493	2774	0004380	0437	14790														
		OBS	0700	0415	34932	2774			14790														
		STO	0800	0389	3491	2775	0004355	0481	14795														
		OBS	0800	0389	34908	2775			14795														
		STO	0900	0384	3491	2775	0004399	0525	14809														
		OBS	0900	0384	34906	2775			14809														
		STO	1000	0381	3490	2775	0004472	0569	14825														
		OBS	1000	0381	34903	2775			14825														
		STO	1100	0380	3491	2776	0004504	0614	14841														
		OBS	1100	0380	34909	2776			14841														
		STO	1200	0380	3491	2776	0004573	0659	14858														
		OBS	1200	0380	34911	2776			14858														
		STO	1300	0375	3492	2777	0004538	0705	14873														
		OBS	1300	0375	34920	2777			14873														
		STO	1400	0378	3492	2777	0004659	0751	14891														
		OBS	1400	0378	34920	2777			14891														
		STO	1500	0369	3492	2778	0004588	0797	14904														
		OBS	1500	0369	34925	2778			14904														

REFERENCE		SHIP CODE	LATITUDE ° ' / 10	LONGITUDE ° ' / 10	DRIFT INDICATOR	M/RSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039		EV	44240N	048080W		149	48	06	20	146	1968	003	10275	1970	1	21	2		X1	0	3	0236
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
		DT	SD	20	S08	230	128	106	7	37												
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 - 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				
		STD	0000	0840	3295	2563	0023702	0000		14818												
	146	OBS	0000	0840	32950	2563				14818												
		STD	0010	0570	3315	2615	0018739	0021		14716												
		OBS	0010	0570	33150	2615				14716												
		STD	0020	0510	3310	2618	0018457	0039		14692												
	003	OBS	0020	0510	33100	2618				14692												
		OBS	0025	0410	33010	2622				14650												
		STD	0030	0332	3294	2624	0017929	0058		14617												
		OBS	0030	0332	32940	2624				14617												
		OBS	0035	0458	33340	2643				14676												
		STD	0050	0249	3344	2671	0013471	0089		14591												
		OBS	0050	0249	33440	2671				14591												
		OBS	0058	0505	34000	2690				14708												
		OBS	0061	0349	33900	2698				14642												
		STD	0075	0485	3421	2709	0009913	0118		14706												
		OBS	0075	0485	34210	2709				14706												
		OBS	0084	0621	34540	2718				14767												
		OBS	0090	0584	34460	2717				14752												
		OBS	0092	0638	34610	2722				14776												
		STD	0100	0605	3458	2724	0008579	0141		14764												
		OBS	0100	0605	34580	2724				14764												
		OBS	0118	0527	34500	2727				14734												
		STD	0125	0589	3465	2731	0007888	0162		14762												
		OBS	0125	0589	34650	2731				14762												
		STD	0150	0588	3465	2731	0007912	0182		14766												
		OBS	0150	0588	34650	2731				14766												
		OBS	0190	0389	34470	2740				14688												
		STD	0200	0430	3462	2747	0006383	0217		14709												
		OBS	0200	0430	34620	2747				14709												
		OBS	0215	0435	34650	2749				14714												
		STD	0250	0529	3489	2758	0005539	0247		14762												
		OBS	0250	0529	34890	2758				14762												
		OBS	0275	0538	34910	2758				14770												
		STD	0300	0498	3486	2759	0005454	0275		14757												
		OBS	0300	0498	34860	2759				14757												
		OBS	0321	0518	34930	2762				14769												
		OBS	0342	0499	34920	2763				14765												
		STD	0400	0498	3497	2768	0004720	0326		14775												
		OBS	0400	0498	34975	2768				14775												
		STD	0500	0448	3494	2771	0004500	0372		14770												
		OBS	0500	0448	34940	2771				14770												
		STD	0600	0442	3495	2772	0004464	0416		14784												
		OBS	0600	0442	34950	2772				14784												
		STD	0700	0419	3495	2775	0004297	0460		14791												
		OBS	0700	0419	34950	2775				14791												
		STD	0800	0409	3495	2776	0004278	0503		14804												
		OBS	0800	0409	34950	2776				14804												
		STD	0900	0400	3496	2778	0004195	0546		14817												
		OBS	0900	0400	34959	2778				14817												
		STD	1000	0392	3496	2778	0004189	0587		14830												
		OBS	1000	0392	34960	2778				14830												
		STD	1100	0392	3496	2779	0004270	0630		14847												
		OBS	1100	0392	34961	2779				14847												
		STD	1200	0378	3494	2779	0004302	0673		14858												
		OBS	1200	0378	34945	2779				14858												
		STD	1300	0378	3496	2780	0004274	0715		14875												
		OBS	1300	0378	34960	2780				14875												
		STD	1400	0375	3496	2780	0004323	0758		14890												
		OBS	1400	0375	34960	2780				14890												
		STD	1500	0373	3496	2780	0004383	0802		14906												
		OBS	1500	0373	34960	2780				14906												

REFERENCE	SHIP CODE	LATITUDE ° '"/10	LONGITUDE ° '"/10	SURF INCH	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		NOOC STATION NUMBER					
						MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT PER	SEA	TYPE		AMT							
																				10"		1"	AIR TEMP. °C	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
CTRY CODE	IO. NO.					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE																	
318039	EV	44200N	047310W	149	47	06	20	177	1968	003	10276	3749	1	22	0	4		X1	0	3	0237					
						DT	SD	22	506	220	178	144	8	38												
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	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 CCT									
		STD	0000	0970	3325	2566	0023421	0000	14870																	
177		OBS	0000	0970	33250	2566			14870																	
		STD	0010	0815	3326	2591	0021018	0022	14814																	
		OBS	0010	0815	33265	2591			14814																	
		STD	0020	0780	3328	2598	0020398	0042	14802																	
003		OBS	0020	0780	33285	2598			14802																	
		OBS	0025	0767	33290	2600			14798																	
		STD	0030	0752	3352	2620	0018267	0062	14796																	
		OBS	0030	0752	3227P	2522P																				
		OBS	0040	0693	33980	2665			14781																	
		STD	0050	0725	3443	2696	0011170	0091	14801																	
		OBS	0050	0725	34430	2696			14801																	
		OBS	0052	0550	34200	2700			14729																	
		OBS	0068	0740	34540	2702			14811																	
		STD	0075	0664	3441	2702	0010550	0118	14781																	
		OBS	0075	0664	34410	2702			14781																	
		STD	0100	0830	3484	2712	0009694	0144	14855																	
		OBS	0100	0830	34840	2712			14855																	
		OBS	0120	0668	34650	2721			14793																	
		STD	0125	0683	3469	2722	0008789	0167	14800																	
		OBS	0125	0683	34690	2722			14800																	
		OBS	0130	0720	34760	2722			14817																	
		OBS	0145	0663	34760	2730			14797																	
		STD	0150	0684	3482	2732	0007882	0188	14806																	
		OBS	0150	0684	34820	2732			14806																	
		OBS	0160	0711	34850	2731			14819																	
		STD	0200	0637	3486	2741	0007066	0225	14797																	
		OBS	0200	0637	34856	2741			14797																	
		OBS	0210	0664	34910	2742			14810																	
		STD	0250	0480	3460	2740	0007138	0261	14738																	
		OBS	0250	0480	34600	2740			14738																	
		OBS	0273	0392	34700	2758			14706																	
		STD	0300	0460	3481	2759	0005409	0292	14740																	
		OBS	0300	0460	34808	2759			14740																	
		OBS	0345	0523	34890	2758			14775																	
		STD	0400	0487	3489	2762	0005238	0345	14769																	
		OBS	0400	0487	34888	2762			14769																	
		STD	0500	0480	3495	2768	0004807	0395	14784																	
		OBS	0500	0480	34950	2768			14784																	
		OBS	0563	0499	34970	2767			14802																	
		STD	0600	0470	3497	2771	0004647	0443	14796																	
		OBS	0600	0470	34970	2771			14796																	
		STD	0700	0452	3496	2772	0004611	0489	14805																	
		OBS	0700	0452	34960	2772			14805																	
		OBS	0735	0425	34915	2771			14799																	
		OBS	0781	0421	34950	2775			14806																	
		STD	0800	0440	3498	2775	0004427	0534	14817																	
		OBS	0800	0440	34980	2775			14817																	
		STD	0900	0422	3496	2775	0004437	0578	14826																	
		OBS	0900	0422	34962	2775			14826																	
		STD	1000	0410	3493	2774	0004622	0624	14837																	
		OBS	1000	0410	34930	2774			14837																	
		STD	1100	0403	3494	2776	0004574	0670	14851																	
		OBS	1100	0403	34938	2776			14851																	
		STD	1200	0399	3494	2776	0004610	0716	14866																	
		OBS	1200	0399	34939	2776			14866																	
		STD	1300	0394	3494	2777	0004623	0762	14881																	
		OBS	1300	0394	34940	2777			14881																	
		STD	1400	0389	3494	2777	0004652	0808	14896																	
		OBS	1400	0389	34940	2777			14896																	
		STD	1500	0382	3494	2778	0004644	0855	14910																	
		OBS	1500	0382	34940	2778			14910																	

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'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			
318039		EV	44168N	047208W		149	47	06	20	196	1968	003	10277	4023	1	22	0	X		XO	0	3	0238		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	SD	00	500	220	167	140	7	50											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107		Σ Δ σ DTN. M. X 107	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								
		STO	0000	0849	3302	2567	0023267		0000	14822															
196		OBS	0000	0849	33025	2567				14822															
		STD	0010	0630	3293	2590	0021113		0022	14737															
		OBS	0010	0630	32927	2590				14737															
		STD	0020	0572	3300	2603	0019900		0042	14716															
003		OBS	0020	0572	33000	2603				14716															
		OBS	0025	0544	33150	2618				14708															
		STD	0030	0624	3330	2620	0018276		0061	14743															
		OBS	0030	0624	33300	2620				14743															
		OBS	0038	0348	33210	2644				14629															
		STD	0050	0635	3424	2693	0011422		0091	14763															
		OBS	0050	0635	34239	2693				14763															
		OBS	0061	0741	34450	2695				14809															
		OBS	0067	0722	34420	2695				14802															
		STD	0075	0758	3459	2703	0010475		0118	14820															
		OBS	0075	0758	34590	2703				14820															
		OBS	0092	0673	34510	2709				14789															
		STD	0100	0703	3459	2711	0009766		0144	14803															
		OBS	0100	0703	34590	2711				14803															
		OBS	0105	0641	34520	2714				14778															
		OBS	0120	0722	34680	2716				14815															
		STD	0125	0710	3464	2714	0009500		0168	14810															
		OBS	0125	0710	34643	2714				14810															
		OBS	0136	0655	34620	2720				14790															
		STD	0150	0740	3480	2723	0008793		0191	14828															
		OBS	0150	0740	34800	2723				14828															
		OBS	0160	0751	34896	2728				14835															
		OBS	0185	0526	34590	2734				14746															
		STD	0200	0538	3469	2741	0007065		0430	14754															
		OBS	0200	0538	34692	2741				14754															
		OBS	0228	0585	34800	2743				14780															
		OBS	0239	0580	34840	2747				14780															
		OBS	0241	0602	34873	2747				14790															
		OBS	0247	0585	34833	2746				14783															
		STD	0250	0604	3488	2747	0006536		0264	14792															
		OBS	0250	0604	34880	2747				14792															
		OBS	0260	0610	34900	2748				14796															
		OBS	0279	0550	34812	2749				14774															
		OBS	0290	0565	34890	2753				14783															
		STD	0300	0524	3482	2753	0006029		0296	14767															
		OBS	0300	0524	34825	2753				14767															
		OBS	0315	0467	34750	2754				14745															
		OBS	0340	0496	34873	2760				14763															
		OBS	0346	0535	35001	2766				14781															
		OBS	0370	0554	35030	2766				14794															
		STD	0400	0532	3498	2764	0005083		0351	14789															
		OBS	0400	0532	34981	2764				14789															
		OBS	0443	0532	35010	2767				14796															
		STD	0500	0496	3497	2768	0004853		0401	14790															
		OBS	0500	0496	34970	2768				14790															
		OBS	0525	0481	34950	2768				14788															
		OBS	0550	0492	34990	2770				14797															
		STD	0600	0486	3498	2770	0004768		0449	14803															
		OBS	0600	0486	34980	2770				14803															
		STD	0700	0470	3499	2773	0004588		0496	14813															
		OBS	0700	0470	34993	2773				14813															
		OBS	0743	0473	35013	2774				14822															
		OBS	0761	0451	34995	2775				14815															
		STD	0800	0451	3499	2774	0004519		0541	14822															
		OBS	0800	0451	34986	2774				14822															
		STD	0900	0435	3497	2775	0004519		0587	14832															
		OBS	0900	0435	34973	2775				14832															
		STD	1000	0422	3497	2776	0004482		0632	14843															
		OBS	1000	0422	34969	2776				14843															
		STD	1100	0416	3496	2776	0004537		0677	14857															
		OBS	1100	0416	34965	2776				14857															
		STD	1200	0412	3497	2777	0004541		0722	14872															
		OBS	1200	0412	34971	2777				14872															
		STD	1300	0405	3497	2778	0004543		0767	14886															
		OBS	1300	0405	34971	2778				14886															
		STD	1400	0399	3497	2779	0004553		0813	14900															
		OBS	1400	0399	34971	2779				14900															
		STD	1500	0392	3497	2779	0004565		0859	14914															
		OBS	1500	0392	34969	2779				14914															

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE INCH	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°	MD	OAT		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
						WATER	WIND		AIR TEMP. °C		BARO- METER (mb)	VIS. CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
318039		EV	44030N	048060W	149	48	06	21	002	1968	003	10278	3346	1	14	0	2		X4	0	3		0239
						DT	SD	13	502	220	117	117	1	35									
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	CTRY CODE						
		STD	0000	0851	3308	2571	0022904	0000	14824														
	002	OBS	0000	0851	33078	2571			14824														
		STD	0010	0540	3308	2614	0018892	0020	14703														
		OBS	0010	0540	33085	2614			14703														
	003	OBS	0017	0517	33099	2617			14695														
		STD	0020	0533	3314	2619	0018404	0039	14702														
		OBS	0020	0533	33140	2619			14702														
		OBS	0025	0538	33160	2620			14705														
		STD	0030	0500	3318	2626	0017760	0057	14691														
		OBS	0030	0500	33180	2626			14691														
		OBS	0033	0495	33180	2626			14689														
		OBS	0040	0519	33440	2644			14704														
		STD	0050	0344	3335	2655	0014975	0090	14631														
		OBS	0050	0344	33348	2655			14631														
		OBS	0070	0099	33400	2678			14527														
		STD	0075	0150	3375	2703	0010409	0122	14556														
		OBS	0075	0150	33750	2703			14556														
		OBS	0090	0192	33960	2717			14580														
		STD	0100	0173	3394	2717	0009130	0146	14573														
		OBS	0100	0173	33940	2717			14573														
		OBS	0115	0327	34348	2736			14648														
		STD	0125	0328	3435	2736	0007322	0167	14650														
		OBS	0125	0328	34351	2736			14650														
		OBS	0132	0329	34359	2737			14652														
		STD	0150	0364	3453	2747	0006335	0184	14672														
		OBS	0150	0364	34530	2747			14672														
		STD	0200	0490	3482	2757	0005548	0213	14737														
		OBS	0200	0490	34820	2757			14737														
		OBS	0248	0488	34849	2759			14744														
		STD	0250	0479	3482	2758	0005483	0241	14740														
		OBS	0250	0479	34820	2758			14740														
		OBS	0266	0461	34835	2761			14736														
		OBS	0280	0507	34942	2764			14758														
		STD	0300	0510	3495	2764	0004960	0267	14763														
		OBS	0300	0510	34946	2764			14763														
		STD	0400	0484	3496	2768	0004661	0315	14769														
		OBS	0400	0484	34960	2768			14769														
		STD	0500	0475	3497	2770	0004586	0361	14782														
		OBS	0500	0475	34972	2770			14782														
		STD	0600	0455	3496	2772	0004545	0407	14790														
		OBS	0600	0455	34960	2772			14790														
		STD	0700	0438	3496	2774	0004445	0452	14799														
		OBS	0700	0438	34960	2774			14799														
		STD	0800	0424	3495	2774	0004459	0497	14810														
		OBS	0800	0424	34950	2774			14810														
		STD	0900	0418	3496	2776	0004402	0541	14824														
		OBS	0900	0418	34960	2776			14824														
		STD	1000	0405	3494	2776	0004477	0585	14835														
		OBS	1000	0405	34942	2776			14835														
		STD	1100	0398	3494	2777	0004463	0630	14849														
		OBS	1100	0398	34945	2777			14849														
		STD	1200	0391	3494	2777	0004499	0675	14863														
		OBS	1200	0391	34940	2777			14863														
		STD	1300	0383	3494	2778	0004492	0720	14876														
		OBS	1300	0383	34939	2778			14876														
		STD	1400	0380	3494	2778	0004534	0765	14892														
		OBS	1400	0380	34940	2778			14892														
		STD	1500	0373	3494	2779	0004533	0810	14906														
		OBS	1500	0373	34940	2779			14906														

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
						10"	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039		EV	43440N	048500W	149	38	06	21	025	1968	003	10279	1829	1	14	1	2		X4	0	3		0240
						WATER		WIND		AIR TEMP. °C													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS								
						DT	SD	15	507	220	117	117	1	41									
MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	0418	3267	2594	0020739	0000	14645														
025		OBS	0000	0418	32670	2594			14645														
		STD	0010	0215	3270	2614	0018811	0019	14559														
		OBS	0010	0215	32700	2614			14559														
		STD	0020	0192	3287	2630	0017355	0037	14553														
002		OBS	0020	0192	32870	2630			14553														
		OBS	0025	0145	32900	2635			14534														
		STD	0030	0130	3296	2641	0016266	0054	14528														
		OBS	0030	0130	32960	2641			14528														
		OBS	0038	0051	33010	2650			14495														
		OBS	0042	0091	33270	2668			14517														
		STD	0050	0088	3334	2674	0013124	0084	14518														
		OBS	0050	0088	33340	2674			14518														
		OBS	0051	0058	33410	2682			14506														
		OBS	0065	0099	33638	2697			14530														
		STD	0075	0046	3360	2697	0010911	0114	14507														
		OBS	0075	0046	33600	2697			14507														
		STD	0100	0112	3385	2714	0009402	0139	14544														
		OBS	0100	0112	33850	2714			14544														
		OBS	0111	0095	33882	2717			14539														
		STD	0125	0138	3405	2728	0008025	0161	14563														
		OBS	0125	0138	34055	2728			14563														
		OBS	0131	0165	34080	2728			14576														
		STD	0150	0174	3417	2735	0007415	0180	14584														
		OBS	0150	0174	34170	2735			14584														
		OBS	0153	0182	34189	2736			14589														
		OBS	0177	0178	34238	2740			14592														
		STD	0200	0208	3436	2748	0006225	0214	14610														
		OBS	0200	0208	34365	2748			14610														
		STD	0250	0278	3453	2755	0005582	0244	14651														
		OBS	0250	0278	34533	2755			14651														
		OBS	0272	0349	34680	2761			14687														
		STD	0300	0380	3473	2761	0005125	0271	14706														
		OBS	0300	0380	34730	2761			14706														
		OBS	0352	0420	34825	2765			14733														
		OBS	0360	0440	34878	2767			14743														
		STD	0400	0451	3490	2767	0004746	0320	14754														
		OBS	0400	0451	34898	2767			14754														
		OBS	0437	0466	34930	2768			14767														
		STD	0500	0448	3492	2769	0004635	0367	14770														
		OBS	0500	0448	34922	2769			14770														
		STD	0600	0433	3492	2771	0004576	0413	14780														
		OBS	0600	0433	34921	2771			14780														
		STD	0700	0410	3491	2773	0004451	0458	14787														
		OBS	0700	0410	34915	2773			14787														
		OBS	0715	0408	34930	2774			14789														
		OBS	0762	0411	34918	2773			14798														
		OBS	0767	0400	34915	2774			14794														
		STD	0800	0399	3492	2775	0004384	0502	14799														
		OBS	0800	0399	34920	2775			14799														
		STD	0900	0399	3492	2774	0004485	0546	14816														
		OBS	0900	0399	34918	2774			14816														
		OBS	0961	0386	34920	2776			14821														
		STD	1000	0388	3492	2776	0004436	0591	14828														
		OBS	1000	0388	34920	2776			14828														
		STD	1100	0386	3492	2776	0004493	0636	14844														
		OBS	1100	0386	34921	2776			14844														
		STD	1200	0377	3491	2776	0004547	0681	14857														
		OBS	1200	0377	34910	2776			14857														
		STD	1300	0377	3492	2777	0004562	0726	14874														
		OBS	1300	0377	34920	2777			14874														
		STD	1400	0371	3492	2777	0004565	0772	14888														
		OBS	1400	0371	34920	2777			14888														
		STD	1500	0371	3493	2778	0004578	0818	14905														
		OBS	1500	0371	34930	2778			14905														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		DIR	AMT		
318039	EV		43100N	050200W		150	30	06	21	099	1968	003	10280	0086	1	20	2	2		X4	0	3		0241
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE		DRY BULB		WET BULB															
DT		SD		19	S22		159		139		139		09											
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰		SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O 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 CO ₂			
		STD	0000	0922	3270		2531		0026758		0000		14846											
099		OBS	0000	0922	32700		2531						14846											
		STD	0010	0724	3298		2582		0021885		0024		14775											
		OBS	0010	0724	32982		2582						14775											
		STD	0020	0643	3301		2595		0020664		0045		14745											
002		OBS	0020	0643	33010		2595						14745											
		OBS	0025	0613	33033		2601						14734											
		STD	0030	0561	3311		2613		0018959		0065		14715											
		OBS	0030	0561	33110		2613						14715											
		OBS	0035	0579	33550		2646						14729											
		OBS	0038	0563	33654		2656						14724											
		STD	0050	0563	3366		2656		0014911		0099		14726											
		OBS	0050	0563	33657		2656						14726											
		OBS	0065	0563	33658		2656						14729											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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
318039	EV		43000N	050200W		150	30	06	21	111	1968	003	10281	0090	1	20	1	2		X4	0 3		0242
						WATER		WIND		AIR TEMP. °C													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	SD	19	S20	180	140	110	1	05									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ 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	S. CO ₂						
111		STD	0000	0911	3280	2540	0025870	0000	14843														
		OBS	0000	0911	32798	2540			14843														
002		STD	0010	0385	3258	2590	0021107	0023	14631														
		OBS	0010	0385	32580	2590			14631														
		OBS	0013	0366	32720	2603			14626														
		STD	0020	0414	3301	2621	0018181	0043	14651														
		STD	0030	0470	3334	2641	0016274	0060	14680														
		STD	0050	0538	3372	2664	0014149	0090	14717														
		OBS	0050	0538	33720	2664			14717														
		OBS	0070	0548	33738	2664			14724														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
					10"	1"	MO	DAY	N	E		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT		
318039	EV	4243 N	05020 W		150	20	06	21	132	1968	003	10282	0457	1	19	2	2		X4	7	8	0243			
					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													
								20	S25	169	133	128	0	09											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ 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	S. CO ₂								
		STD	0000		3307																				
133		OBS	0000	11670	33071	25170																			
		STD	0010		3295																				
		STD	0020		3283																				
133		OBS	0023	0640	32798	2579			14741																
		STD	0030	0678	3303	2592	0020996		14761																
133		OBS	0045	0690	33387	2618			14773																
		STD	0050	0646	3343	2628	0017607		14757																
133		OBS	0067	0538	33609	2655			14718																
		STD	0075	0538	3380	2670	0013608		14722																
		STD	0100	0536	3420	2702	0010629		14731																
133		OBS	0108	0536	34264	2707			14733																
		STD	0125	0422	3422	2717	0009217		14688																
		STD	0150	0370	3416	2717	0009203		14669																
133		OBS	0150	0370	34156	2717			14669																
133		OBS	0193	0606	34645	2729			14780																
		STD	0200	0608	3467	2731	0008061		14782																
133		OBS	T0238	0613	34794	2739			14792																
		STD	0250	0611	3481	2741	0007179		14794																
		STD	0300	0601	3486	2746	0006748		14799																
133		OBS	T0336	0594	34891	2750			14802																

REFERENCE		SHIP CODE	LATITUDE ° ' ''	LONGITUDE ° ' ''	DRIFT INDIC	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT				
318039	EV		42340N	050200W		150	20	06	21	146	1968	003	10283		1847	1	19	2	2		X0	0	3		0244
						WATER		WIND		BARO- METER		AIR TEMP. °C		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	CIR.	SPEED OR FORCE	(mbal)	DRY BULB	WET BULB	VIS. CODE												NO. OBS. DEPTHS
						DT	SD	20	S20	170	130	130	0												33

MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CODE
146		STD	0000	1236	3321	2515	0028237	0000	14965								
		OBS	0000	1236	33208	2515			14965								
003		STD	0010	0942	3306	2555	0024419	0026	14859								
		OBS	0010	0942	33059	2555			14859								
		STD	0020	0886	3322	2577	0022378	0049	14842								
		OBS	0020	0886	33222	2577			14842								
		OBS	0025	0844	33225	2584			14827								
		STD	0030	0800	3320	2588	0021321	0071	14811								
		OBS	0030	0800	33200	2588			14811								
		STD	0050	0640	3349	2633	0017091	0110	14755								
		OBS	0050	0640	33488	2633			14755								
		OBS	0068	0413	33894	2692			14670								
		STD	0075	0517	3430	2712	0009594	0143	14720								
		OBS	0075	0517	34300	2712			14720								
		OBS	0094	0382	34138	2714			14665								
		STD	0100	0405	3424	2720	0008874	0166	14677								
		OBS	0100	0405	34240	2720			14677								
		OBS	0101	0415	34239	2719			14681								
		OBS	0110	0377	34230	2722			14667								
		STD	0125	0404	3432	2726	0008292	0187	14682								
		OBS	0125	0404	34320	2726			14682								
		STD	0150	0520	3462	2737	0007357	0207	14738								
		OBS	0150	0520	34616	2737			14738								
		OBS	0170	0590	34744	2738			14771								
		STD	0200	0594	3477	2740	0007163	0243	14778								
		OBS	0200	0594	34770	2740			14778								
		OBS	0215	0606	34652	2745			14787								
		STD	0250	0546	3479	2748	0006449	0277	14767								
		OBS	0250	0546	34795	2748			14767								
		STD	0300	0512	3481	2754	0005958	0308	14762								
		OBS	0300	0512	34815	2754			14762								
		OBS	0365	0553	34960	2760			14791								
		STD	0400	0495	3490	2762	0005246	0364	14773								
		OBS	0400	0495	34900	2762			14773								
		STD	0500	0485	3494	2766	0004965	0415	14785								
		OBS	0500	0485	34936	2766			14785								
		STD	0600	0490	3498	2769	0004836	0464	14805								
		OBS	0600	0490	34978	2769			14805								
		STD	0700	0481	3500	2772	0004677	0512	14818								
		OBS	0700	0481	34999	2772			14818								
		STD	0800	0458	3498	2773	0004648	0559	14825								
		OBS	0800	0458	34980	2773			14825								
		STD	0900	0438	3497	2774	0004596	0605	14833								
		OBS	0900	0438	34967	2774			14833								
		STD	1000	0434	3497	2775	0004590	0651	14848								
		OBS	1000	0434	34975	2775			14848								
		STD	1100	0414	3496	2776	0004549	0696	14856								
		OBS	1100	0414	34960	2776			14856								
		STD	1200	0412	3496	2777	0004585	0742	14872								
		OBS	1200	0412	34965	2777			14872								
		STD	1300	0400	3495	2777	0004598	0788	14884								
		OBS	1300	0400	34955	2777			14884								
		STD	1400	0388	3494	2777	0004640	0834	14895								
		OBS	1400	0388	34940	2777			14895								
		OBS	1480	0384	34940	2778			14907								
		STD	1500	0384	3494	2778	0004677	0881	14910								
		OBS	1500	0384	34940	2778			14910								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCH	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR,1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318039	EV	4211 N	05023 W	150	20	06	21	172	1968	003	10284	3146	1	20	2	3		X6	0	3		0245
		WATER		WIND				AIR TEMP. °C														
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		DT	SD	19	519	166		172		166		3	35									

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	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	CO ₂ CONC
		STD	0000	1078	3495	2524	0027348	0000	14906								
172		OBS	0000	1078	32955	2524			14906								
		STD	0010	0884	3320	2576	0022496	0024	14839								
		OBS	0010	0884	33200	2576			14839								
		STD	0020	0781	3328	2597	0020444	0046	14803								
002		OBS	0020	0781	33280	2597			14803								
		STD	0030	0721	3329	2607	0019568	0066	14781								
		STD	0050	0592	3346	2637	0016723	0102	14735								
		OBS	0050	0592	33460	2637			14735								
		OBS	0070	0453	33826	2682			14686								
		STD	0075	0492	3386	2680	0012624	0139	14704								
		OBS	0075	0492	33859	2680			14704								
		OBS	0079	0384	33900	2695			14660								
		STD	0100	0543	3429	2708	0009999	0167	14735								
		OBS	0100	0543	34290	2708			14735								
		OBS	0104	0529	34300	2711			14730								
		OBS	0118	0556	34400	2716			14744								
		STD	0125	0451	3432	2721	0008775	0191	14701								
		OBS	0125	0451	34320	2721			14701								
		OBS	0144	0683	34726	2725			14804								
		STD	0150	0668	3471	2726	0008454	0212	14799								
		OBS	0150	0668	34714	2726			14799								
		OBS	0175	0587	34650	2731			14770								
		OBS	0193	0634	34808	2738			14794								
		STD	0200	0630	3480	2738	0007369	0252	14793								
		OBS	0200	0630	34803	2738			14793								
		OBS	0212	0626	34820	2740			14794								
		OBS	0228	0526	34694	2742			14754								
		STD	0250	0580	3481	2745	0006756	0287	14781								
		OBS	0250	0580	34810	2745			14781								
		STD	0300	0523	3479	2750	0006262	0320	14766								
		OBS	0300	0523	34792	2750			14766								
		OBS	0314	0522	34818	2753			14768								
		OBS	0323	0509	34872	2758			14765								
		OBS	0335	0527	34882	2757			14775								
		OBS	0342	0526	34873	2757			14775								
		STD	0400	0507	3492	2762	0005239	0377	14778								
		OBS	0400	0507	34919	2762			14778								
		OBS	0475	0500	34944	2765			14788								
		STD	0500	0490	3494	2766	0004998	0428	14788								
		OBS	0500	0490	34940	2766			14788								
		STD	0600	0472	3495	2769	0004846	0478	14797								
		OBS	0600	0472	34947	2769			14797								
		OBS	0652	0464	34962	2771			14802								
		OBS	0682	0464	34962	2771			14807								
		OBS	0697	0457	34960	2771			14807								
		STD	0700	0457	3496	2771	0004673	0525	14807								
		OBS	0700	0457	34960	2771			14807								
		STD	0800	0458	3499	2773	0004604	0572	14825								
		OBS	0800	0458	34986	2773			14825								
		STD	0900	0434	3497	2775	0004508	0617	14831								
		OBS	0900	0434	34973	2775			14831								
		STD	1000	0426	3497	2776	0004536	0662	14845								
		OBS	1000	0426	34969	2776			14845								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
318039	EV		41510N	050200W		150	10	06	21	199	1968	003	10285	3800	1	21	5	2		X2	0	3	0246			
						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														
						OT	SD	20	S28	170	194	183	4	30												
MESSENGR TIME HR 1/10	CAT NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D. DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S CC								
199		STD	0000	1350	3328	2498	0029844		0000	15004																
		OBS	0000	1350	33280	2498				15004																
003		STD	0010	1300	3334	2513	0028480		0029	14990																
		OBS	0010	1300	33340	2513				14990																
		STD	0020	1365	3362	2521	0027691		0057	15016																
		OBS	0020	1365	33620	2521				15016																
		OBS	0025	1370	33830	2537				15021																
		STD	0030	1369	3400	2550	0025006		0083	15024																
		OBS	0030	1369	34000	2550				15024																
		OBS	0040	1339	34055	2560				15016																
		STD	0050	1272	3401	2570	0023130		0131	14995																
		OBS	0050	1272	34010	2570				14995																
		STD	0075	1286	3550	2683	0012523		0176	15023																
		OBS	0075	1286	35500	2683				15023																
		STD	0100	1227	3539	2686	0012282		0207	15005																
		OBS	0100	1227	35390	2686				15005																
		STD	0125	1156	3527	2690	0011925		0237	14983																
		OBS	0125	1156	35270	2690				14983																
		STD	0150	1152	3527	2691	0011913		0267	14986																
		OBS	0150	1152	35270	2691				14986																
		OBS	0162	1172	35350	2693				14996																
		STD	0200	1052	3526	2708	0010367		0323	14959																
	OBS	0200	1052	35258	2708				14959																	
	STD	0250	0905	3515	2725	0008823		0371	14912																	
	OBS	0250	0905	35152	2725				14912																	
	STD	0300	0748	3490	2730	0008384		0414	14857																	
	OBS	0300	0748	34904	2730				14857																	
	OBS	0350	0728	34990	2739				14859																	
	STD	0400	0606	3490	2749	0006604		0489	14818																	
	OBS	0400	0606	34903	2749				14818																	
	OBS	0430	0543	34830	2751				14796																	
	OBS	0460	0552	34910	2756				14806																	
	STD	0500	0528	3488	2757	0005875		0551	14802																	
	OBS	0500	0528	34885	2757				14802																	
	STD	0600	0501	3494	2765	0005253		0607	14809																	
	OBS	0600	0501	34940	2765				14809																	
	STD	0700	0474	3495	2769	0004969		0658	14814																	
	OBS	0700	0474	34948	2769				14814																	
	STD	0800	0478	3499	2771	0004819		0707	14833																	
	OBS	0800	0478	34990	2771				14833																	
	STD	0900	0452	3498	2774	0004644		0754	14839																	
	OBS	0900	0452	34985	2774				14839																	
	STD	1000	0424	3496	2775	0004593		0800	14844																	
	OBS	1000	0424	34958	2775				14844																	
	STD	1100	0412	3496	2776	0004553		0846	14855																	
	OBS	1100	0412	34956	2776				14855																	
	STD	1200	0400	3494	2776	0004613		0892	14867																	
	OBS	1200	0400	34940	2776				14867																	
	STD	1300	0402	3495	2777	0004622		0938	14884																	
	OBS	1300	0402	34955	2777				14884																	
	STD	1400	0392	3494	2777	0004653		0984	14897																	
	OBS	1400	0392	34945	2777				14897																	
	STD	1500	0388	3494	2778	0004691		1031	14912																	
	OBS	1500	0388	34945	2778				14912																	

263

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE 1/10	W. R. SOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	NO.					10"	1'	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

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						
DT	SD	20	S15	200	144	133	6	44			

MESSING TIME HR. 1/10	CAST NO.	CARGO 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/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 C
		STD	0000	1194	3522	2524	0027403	0000	14950								
076		OBS	0000	1194	35218	2524			14950								
		STD	0010	0710	3533	2611	0019104	0023	14774								
		OBS	0010	0710	35330	2611			14774								
		STD	0020	0610	3561	2646	0015774	0040	14740								
003		OBS	0020	0610	35610	2646			14740								
		OBS	0025	0606	35670	2652			14740								
		STD	0030	0580	3572	2659	0014609	0055	14731								
		OBS	0030	0580	35720	2659			14731								
		STD	0050	0359	3557	2703	0010422	0080	14646								
		OBS	0050	0359	35970	2703			14646								
		OBS	0064	0336	34153	2720			14641								
		STD	0075	0385	3419	2718	0009037	0105	14664								
		OBS	0075	0385	34190	2718			14664								
		OBS	0080	0394	34220	2719			14669								
		STD	0100	0364	3439	2736	0007348	0125	14662								
		OBS	0100	0364	34390	2736			14662								
		STD	0125	0476	3455	2737	0007322	0144	14715								
		OBS	0125	0476	34551	2737			14715								
		OBS	0135	0481	34575	2738			14719								
		OBS	0137	0516	34627	2738			14734								
		STD	0150	0518	3466	2741	0006969	0161	14738								
		OBS	0150	0518	34665	2741			14738								
		OBS	0163	0518	34728	2746			14741								
		OBS	0175	0534	34745	2745			14749								
		OBS	0196	0437	34631	2748			14711								
		STD	0200	0455	3475	2755	0005675	0193	14721								
		OBS	0200	0455	34750	2755			14721								
		OBS	0205	0505	34820	2755			14744								
		OBS	0245	0471	34785	2756			14736								
		STD	0250	0473	3480	2757	0005560	0221	14737								
		OBS	0250	0473	34800	2757			14737								
		OBS	0268	0485	34870	2761			14746								
		OBS	0278	0529	34910	2759			14767								
		STD	0300	0528	3494	2762	0005224	0248	14770								
		OBS	0300	0528	34939	2762			14770								
		OBS	0334	0525	34920	2760			14774								
		OBS	0340	0505	34920	2763			14767								
		OBS	0395	0502	34995	2769			14776								
		STD	0400	0513	3499	2768	0004761	0298	14781								
		OBS	0400	0513	34993	2768			14781								
		OBS	0420	0519	34992	2767			14787								
		OBS	0460	0501	34972	2767			14786								
		OBS	0468	0492	34984	2769			14784								
		OBS	0486	0497	34963	2767			14788								
		STD	0500	0477	3496	2769	0004669	0345	14783								
		OBS	0500	0477	34963	2769			14783								
		OBS	0530	0486	34983	2770			14791								
		OBS	0560	0465	34967	2771			14788								
		OBS	0581	0469	34970	2771			14793								
		STD	0600	0477	3496	2769	0004782	0392	14799								
		OBS	0600	0477	34963	2769			14799								
		OBS	0625	0443	34948	2772			14789								
		STD	0700	0439	3496	2773	0004482	0439	14800								
		OBS	0700	0439	34957	2773			14800								
		STD	0800	0431	3496	2775	0004427	0483	14813								
		OBS	0800	0431	34965	2775			14813								
		STD	0900	0420	3496	2775	0004433	0528	14825								
		OBS	0900	0420	34959	2775			14825								
		STD	1000	0411	3496	2776	0004420	0572	14838								
		OBS	1000	0411	34959	2776			14838								
		STD	1100	0397	3494	2776	0004487	0616	14849								
		OBS	1100	0397	34940	2776			14849								
		STD	1200	0389	3494	2778	0004440	0661	14862								
		OBS	1200	0389	34945	2778			14862								

265

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	M/RSDEN 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*		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

318039	EV	423	0N	0472	00W	149	27	06	22	148	1968	003	10289	4261	1	20	3	3	X2	013	0250
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			

DT	SD	18	S17	301	139	133	9	57	
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MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	σ_t °C
		STD	0000	1340	3325	2498	0029889	0000	15000								
148		OBS	0000	1340	33248	2498			15000								
		OBS	0005	1308	34100	2570			15001								
002		OBS	0008	1350	34400	2585			15019								
		STD	0010	1397	3454	2586	0021554	0025	15037								
		OBS	0010	1397	34540	2586			15037								
		STD	0020	1160	3410	2599	0020351	0046	14953								
		OBS	0020	1160	34100	2599			14953								
		STD	0030	1095	3417	2616	0018714	0066	14932								
		OBS	0048	0999	34300	2643			14902								
		STD	0050	0990	3445	2656	0014958	0099	14901								
		OBS	0050	0990	34450	2656			14901								
		OBS	0060	0900	34300	2659			14868								
		OBS	0065	0808	34140	2661			14832								
		STD	0075	0756	3406	2662	0014386	0136	14812								
		OBS	0075	0756	34060	2662			14812								
		OBS	0080	0739	34150	2672			14808								
		OBS	0090	0564	34180	2697			14740								
		STD	0100	0684	3440	2699	0010925	0168	14793								
		OBS	0100	0684	34400	2699			14793								
		OBS	0107	0650	34400	2704			14780								
		STD	0125	0758	3460	2704	0010488	0195	14828								
		OBS	0125	0758	34600	2704			14828								
		OBS	0133	0942	34987	2706			14904								
		OBS	0143	0944	34975	2705			14906								
		STD	0150	0900	3477	2695	0011405	0222	14889								
		OBS	0150	0900	3438P	2665P											
		OBS	0163	0821	34720	2704			14860								
		OBS	0169	0836	34850	2712			14869								
		OBS	0173	0827	34810	2710			14865								
		OBS	0180	0858	34960	2717			14880								
		STD	0200	0660	3458	2716	0009418	0274	14802								
		OBS	0200	0660	34580	2716			14802								
		OBS	0211	0612	34493	2716			14784								
		STD	0250	0860	3510	2728	0008512	0319	14894								
		OBS	0250	0860	35100	2728			14894								
		OBS	0268	0707	34840	2730			14835								
		OBS	0275	0727	34888	2731			14845								
		STD	0300	0650	3475	2731	0008174	0360	14817								
		OBS	0300	0650	34750	2731			14817								
		OBS	0315	0536	34600	2734			14771								
		OBS	0322	0550	34653	2736			14779								
		OBS	0341	0491	34583	2738			14757								
		OBS	0360	0568	34800	2746			14794								
		OBS	0374	0552	34760	2744			14790								
		STD	0400	0569	3480	2745	0006893	0436	14801								
		OBS	0400	0569	34800	2745			14801								
		OBS	0429	0585	34917	2753			14814								
		OBS	0437	0571	34890	2752			14810								
		OBS	0459	0582	34956	2756			14818								
		OBS	0489	0552	34922	2757			14811								
		STD	0500	0552	3495	2759	0005724	0499	14813								
		OBS	0500	0552	34946	2759			14813								
		OBS	0504	0552	34947	2759			14814								
		OBS	0530	0508	34894	2760			14799								
		OBS	0550	0508	34911	2762			14803								
		OBS	0558	0496	34892	2762			14799								
		OBS	0592	0529	34980	2765			14819								
		STD	0600	0517	3496	2764	0005303	0554	14815								
		OBS	0600	0517	34960	2764			14815								
		OBS	0640	0517	34986	2767			14822								
		OBS	0655	0521	35000	2767			14827								
		OBS	0663	0570	35120	2771			14850								
		STD	0700	0538	3506	2770	0004967	0605	14842								
		OBS	0700	0538	35058	2770			14842								
		STD	0800	0493	3502	2772	0004785	0654	14840								
		OBS	0800	0493	35020	2772			14840								
		OBS	0830	0474	34999	2773			14836								
		OBS	0856	0476	35005	2773			14842								
		STD	0900	0465	3500	2774	0004689	0702	14844								
		OBS	0900	0465	35000	2774			14844								
		OBS	0941	0464	35001	2774			14851								
		STD	1000	0450	3499	2775	0004646	0748	14855								
		OBS	1000	0450	34995	2775			14855								
		STD	1100	0433	3497	2775	0004714	0795	14864								
		OBS	1100	0433	34970	2775			14864								
		STD	1200	0421	3497	2776	0004638	0842	14876								
		OBS	1200	0421	34973	2776			14876								

REFERENCE CITY CODE	IO. NO.	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		NOOC STATION NUMBER	
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		BARO- METER (mbars)	DRY RULB			WET RULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
318039	EV		4230 N	04640 W	149	26	06	22	164	1968	003	10290	4435	1	19	2	2		X2	0	3		0251
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE		TRANS. (m)	DIR.		SPEED OR FORCE	DRY RULB					WET RULB						
						DT	SD	20	S19		190	139					133	7	38				
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O CYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -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						
		STD	0000	1460	3364	2503	0029381		0000	15044													
164		OBS	0000	1460	33640	2503				15044													
		OBS	0008	0900	33500	2597				14849													
		STD	0010	0950	3370	2604	0019789		0024	14870													
003		OBS	0010	0950	33700	2604				14870													
		STD	0020	1160	3452	2631	0017254		0043	14958													
		OBS	0020	1160	34520	2631				14958													
		OBS	0025	1078	34520	2646				14930													
		STD	0030	1088	3456	2647	0015727		0059	14935													
		OBS	0030	1088	34560	2647				14935													
		OBS	0033	1058	34750	2668				14927													
		STD	0050	1240	3536	2681	0012614		0087	15001													
		OBS	0050	1240	35360	2681				15001													
		OBS	0059	1372	35700	2680				15051													
		OBS	0072	1284	35480	2681				15021													
		STD	0075	1402	3578	2680	0012764		0119	15064													
		OBS	0075	1402	35780	2680				15064													
		OBS	0080	1340	35580	2678				15042													
		OBS	0087	1372	35680	2679				15055													
		STD	0100	1330	3556	2678	0013005		0151	15042													
		OBS	0100	1330	35560	2678				15042													
		STD	0125	1284	3552	2685	0012478		0183	15030													
		OBS	0125	1284	35520	2685				15030													
		OBS	0145	1297	35560	2685				15038													
		STD	0150	1272	3552	2687	0012325		0214	15030													
		OBS	0150	1272	35518	2687				15030													
		STD	0200	1241	3545	2688	0012367		0276	15027													
		OBS	0200	1241	35450	2688				15027													
		OBS	0235	1227	3449P	2616P																	
		STD	0250	1236	3550	2693	0012036		0337	15034													
		OBS	0250	1236	35500	2693				15034													
		STD	0300	1175	3541	2697	0011682		0396	15020													
		OBS	0300	1175	35410	2697				15020													
		OBS	0342	0805	34740	2708				14884													
		OBS	0357	1046	35400	2720				14984													
		STD	0400	0850	3498	2720	0009528		0502	14914													
		OBS	0400	0850	34980	2720				14914													
		OBS	0425	0804	34940	2724				14900													
		OBS	0440	0849	35100	2730				14921													
		STD	0500	0542	3463	2735	0007941		0590	14805													
		OBS	0500	0542	34630	2735				14805													
		OBS	0515	0496	34640	2742				14788													
		STD	0600	0545	3478	2747	0006986		0664	14824													
		OBS	0600	0545	34780	2747				14824													
		OBS	0660	0552	34800	2748				14837													
		STD	0700	0543	3492	2758	0006054		0730	14842													
		OBS	0700	0543	34920	2758				14842													
		OBS	0735	0556	34990	2762				14854													
		OBS	0772	0580	35065	2765				14871													
		STD	0800	0570	3505	2765	0005577		0788	14871													
		OBS	0800	0570	35050	2765				14871													
		STD	0900	0525	3501	2768	0005357		0842	14869													
		OBS	0900	0525	35015	2768				14869													
		STD	1000	0476	3500	2772	0004938		0894	14866													
		OBS	1000	0476	35000	2772				14866													
		STD	1100	0461	3500	2774	0004858		0943	14876													
		OBS	1100	0461	35000	2774				14876													
		STD	1200	0440	3497	2774	0004868		0991	14884													
		OBS	1200	0440	34975	2774				14884													

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DAY INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10	1968		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV	43000N	048000W	149	38	06	22	225	1968	003	10291	3449	1	24	3	2		X0	0	3			0252	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. IM1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	SD	23	S10	160	111	106	7	47										
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	S C			
			STD	0000	0738	3280	2566		0023412		0000		14777											
225			OBS	0000	0738	32800	2566						14777											
			STD	0010	0326	3276	2610		0019231		0021		14609											
			OBS	0010	0326	32760	2610						14609											
			STD	0020	0220	3293	2632		0017103		0039		14566											
003			OBS	0020	0220	32930	2632						14566											
			OBS	0025	0201	32973	2637						14559											
			STD	0030	0166	3300	2642		0016196		0056		14545											
			OBS	0030	0166	33000	2642						14545											
			OBS	0040	0084	33130	2658						14512											
			OBS	0045	0100	33300	2670						14522											
			STD	0050	0069	3334	2675		0013013		0085		14510											
			OBS	0050	0069	33340	2675						14510											
			OBS	0060	0075	33520	2689						14516											
			OBS	0065	0030	33520	2692						14497											
			STD	0075	0054	3368	2704		0010308		0114		14512											
			OBS	0075	0054	33685	2704						14512											
			STD	0100	0154	3396	2719		0008863		0138		14564											
			OBS	0100	0154	33958	2719						14564											
			STD	0125	0521	3464	2739		0007156		0158		14735											
			OBS	0125	0521	34640	2739						14735											
			OBS	0130	0555	34680	2738						14750											
			OBS	0145	0488	34613	2740						14724											
			STD	0150	0505	3469	2745		0006631		0175		14733											
			OBS	0150	0505	34690	2745						14733											
			OBS	0156	0532	34743	2746						14745											
			OBS	0164	0525	34740	2746						14744											
			OBS	0168	0563	34810	2747						14761											
			OBS	0171	0540	34740	2744						14751											
			OBS	0180	0576	34820	2746						14768											
			OBS	0185	0554	34780	2746						14760											
			OBS	0192	0567	34815	2747						14767											
			STD	0200	0535	3478	2748		0006371		0208		14754											
			OBS	0200	0535	34780	2748						14754											
			OBS	0206	0552	34800	2748						14763											
			OBS	0220	0505	34770	2751						14745											
			OBS	0225	0531	34831	2753						14758											
			OBS	0242	0525	34850	2755						14758											
			STD	0250	0542	3489	2756		0005655		0238		14767											
			OBS	0250	0542	34895	2756						14767											
			OBS	0260	0555	34920	2757						14774											
			OBS	0293	0521	34899	2759						14766											
			STD	0300	0541	3496	2761		0005242		0265		14776											
			OBS	0300	0541	34958	2761						14776											
			OBS	0313	0555	34985	2762						14784											
			OBS	0321	0526	34920	2760						14773											
			STD	0400	0500	3495	2766		0004919		0316		14775											
			OBS	0400	0500	34951	2766						14775											
			STD	0500	0487	3498	2770		0004663		0364		14787											
			OBS	0500	0487	34980	2770						14787											
			OBS	0585	0475	35000	2773						14796											
			STD	0600	0492	3503	2773		0004499		0410		14806											
			OBS	0600	0492	35026	2773						14806											
			OBS	0630	0490	35010	2772						14810											
			OBS	0642	0458	34963	2772						14798											
			STD	0700	0432	3496	2774		0004364		0454		14797											
			OBS	0700	0432	34961	2774						14797											
			STD	0800	0425	3495	2775		0004425		0498		14811											
			OBS	0800	0425	34955	2775						14811											
			OBS	0855	0413	34948	2775						14815											
			OBS	0863	0395	34920	2775						14808											
			STD	0900	0392	3492	2775		0004391		0542		14813											
			STD	1000	0388	3492	2776		0004427		0586		14828											
			OBS	1000	0388	34921	2776						14828											
			STD	1100	0389	3493	2777		0004422		0630		14845											
			OBS	1100	0389	34935	2777						14845											
			STD	1200	0384	3494	2778		0004417		0674		14860											
			OBS	1200	0384	34939	2778						14860											

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYN	
318039	EV		43000N	047000W		149	37	06	23	026	1968	003	10292	4005	1	24	3	3		X0	0 3	0253
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	SD	24	519	152	144	133	7	29								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTN (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CL				
		STD	0000	1749	3596	2615	0018737		0000	15162												
026		OBS	0000	1749	35960	2615				15162												
		STD	0010	1652	3624	2660	0014533		0016	15138												
		OBS	0010	1652	36239	2660				15138												
		STD	0020	1635	3622	2663	0014294		0031	15134												
002		OBS	0020	1635	36225	2663				15134												
		OBS	0025	1630	36223	2664				15133												
		STD	0030	1629	3622	2664	0014227		0045	15134												
		OBS	0030	1629	36220	2664				15134												
		STD	0050	1599	3618	2667	0013919		0073	15127												
		OBS	0050	1599	36180	2667				15127												
		OBS	0068	1581	36179	2671				15125												
		STD	0075	1581	3619	2672	0013537		0107	15126												
		OBS	0075	1581	36190	2672				15126												
		STD	0100	1581	3620	2673	0013553		0141	15130												
		OBS	0100	1581	36198	2673				15130												
		STD	0125	1578	3619	2673	0013641		0175	15133												
		OBS	0125	1578	36188	2673				15133												
		STD	0150	1560	3615	2674	0013626		0209	15131												
		OBS	0150	1560	36147	2674				15131												
		OBS	0190	1545	36118	2675				15133												
		STD	0200	1524	3607	2676	0013564		0277	15127												
		OBS	0200	1524	36070	2676				15127												
		STD	0250	1442	3588	2679	0013378		0345	15107												
		OBS	0250	1442	35878	2679				15107												
		STD	0300	1355	3570	2684	0013012		0411	15085												
		OBS	0300	1447P	35704	2665P																
		OBS	0395	1190	35489	2701				15042												
		STD	0400	1149	3539	2701	0011597		0534	15028												
		OBS	0400	1149	35390	2701				15028												
		OBS	0479	0975	35215	2718				14976												
		OBS	0485	0986	35248	2719				14982												
		STD	0500	0940	3519	2722	0009619		0640	14966												
		OBS	0500	0940	35190	2722				14966												
		OBS	0545	0861	35175	2734				14944												
		OBS	0571	0861	35192	2735				14949												
		STD	0600	0815	3513	2738	0008211		0729	14935												
		OBS	0600	0815	35135	2738				14935												
		OBS	0639	0771	35158	2746				14925												
		OBS	0650	0686	35010	2747				14892												
		STD	0700	0662	3508	2755	0006492		0802	14892												
		OBS	0700	0662	35080	2755				14892												
		OBS	0720	0662	35080	2755				14895												
		STD	0800	0610	3509	2763	0005837		0864	14888												
		OBS	0800	0610	35089	2763				14888												
		OBS	0850	0555	35049	2767				14874												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	M/RSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039		EV	44000N	046225W	149	46	06	23	097	1968	003	10293	4206	1	26	8	3		X2	0	3	0254
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB													
		DT	SD	26	S35	125		100	089	7	41											
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₃ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CCT				
		STD	0000	0907	3498	2555	0024455		0000	14844												
097		OBS	0000	0907	32980	2555				14844												
		STD	0010	0756	3300	2579	0022176		0023	14788												
		OBS	0010	0756	33000	2579				14788												
002		OBS	0018	0675	33320	2615				14762												
		STD	0020	0710	3352	2626	0017706		0043	14778												
		OBS	0020	0710	33520	2626				14778												
		OBS	0025	0732	33560	2626				14788												
		STD	0030	0769	3374	2635	0016874		0060	14806												
		OBS	0030	0769	33740	2635				14806												
		OBS	0040	0595	33920	2673				14741												
		OBS	0045	0650	34100	2680				14766												
		STD	0050	0665	3418	2684	0012248		0089	14774												
		OBS	0050	0665	34180	2684				14774												
		OBS	0060	0700	34240	2684				14790												
		STD	0075	0900	3474	2693	0011446		0119	14876												
		OBS	0075	0900	34740	2693				14876												
		OBS	0085	0960	34860	2693				14901												
		STD	0100	0840	3462	2694	0011474		0147	14856												
		OBS	0100	0840	34620	2694				14856												
		OBS	0120	0808	34620	2698				14847												
		STD	0125	0820	3466	2700	0010929		0175	14853												
		OBS	0125	0820	34660	2700				14853												
		OBS	0135	0870	34755	2699				14875												
		OBS	0140	0792	34660	2704				14845												
		STD	0150	0816	3473	2706	0010396		0202	14856												
		OBS	0150	0816	34730	2706				14856												
		OBS	0170	0725	34580	2707				14823												
		OBS	0187	0600	34410	2711				14774												
		STD	0200	0690	3457	2711	0009890		0253	14814												
		OBS	0200	0690	34570	2711				14814												
		OBS	0210	0850	34980	2720				14882												
		STD	0250	0729	3480	2724	0008801		0300	14840												
		OBS	0250	0729	34800	2724				14840												
		OBS	0290	0470	34620	2743				14740												
		STD	0300	0600	3485	2746	0006783		0339	14798												
		OBS	0300	0600	34850	2746				14798												
		OBS	0340	0660	34940	2745				14830												
		OBS	0380	0475	34720	2750				14759												
		STD	0400	0540	3486	2754	0006086		0403	14790												
		OBS	0400	0540	34860	2754				14790												
		OBS	0440	0550	34920	2757				14802												
		OBS	0470	0585	34995	2759				14822												
		STD	0500	0540	3493	2760	0005656		0462	14808												
		OBS	0500	0540	34935	2760				14808												
		STD	0600	0494	3494	2766	0005163		0516	14806												
		OBS	0600	0494	34940	2766				14806												
		STD	0700	0480	3497	2770	0004845		0566	14817												
		OBS	0700	0480	34975	2770				14817												
		STD	0800	0469	3499	2772	0004704		0613	14829												
		OBS	0800	0469	34990	2772				14829												
		STD	0900	0454	3499	2774	0004630		0660	14840												
		OBS	0900	0454	34990	2774				14840												
		STD	1000	0422	3495	2775	0004588		0706	14843												
		OBS	1000	0422	34955	2775				14843												
		STD	1100	0414	3496	2777	0004514		0752	14856												
		OBS	1100	0414	34965	2777				14856												
		STD	1200	0409	3495	2776	0004621		0797	14871												
		OBS	1200	0409	34955	2776				14871												
		STD	1300	0398	3495	2777	0004609		0844	14883												
		OBS	1300	0398	34950	2777				14883												
		STD	1400	0390	3495	2778	0004593		0890	14896												
		OBS	1400	0390	34950	2778				14896												
		STD	1500	0386	3495	2778	0004623		0936	14911												
		OBS	1500	0386	34950	2778				14911												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INSTR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUY CODE	IO. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318039	EV		48190N	046100W		149	86	06 24 107	1968	003	10294	1189	1	30	4	3		X6	0 3		0255
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. 1m	CUR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB					WET BULB					
						OT	SD	27	S11	091	044	044	2	29							

MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SDUNO VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SID ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S
		STD	0000	0395	3354	2665	0013975	0000	14647								
107		OBS	0000	0395	33538	2665			14647								
		OBS	0004	0415	33600	2668			14657								
		STD	0010	0414	3362	2670	0013549	0013	14658								
002		OBS	0010	0414	33620	2670			14658								
		OBS	0012	0320	33660	2682			14618								
		STD	0020	0300	3395	2707	0009999	0025	14615								
		OBS	0020	0300	33953	2707			14615								
		OBS	0025	0329	34000	2708			14629								
		STD	0030	0330	3410	2716	0009140	0035	14632								
		OBS	0030	0330	34103	2716			14632								
		OBS	0040	0225	34050	2721			14587								
		STD	0050	0150	3410	2731	0007776	0052	14556								
		OBS	0050	0150	34096	2731			14556								
		OBS	0055	0112	34080	2732			14540								
		OBS	0060	0124	34092	2732			14546								
		STD	0075	0300	3435	2739	0007045	0070	14630								
		OBS	0075	0300	34350	2739			14630								
		OBS	0085	0273	34400	2745			14620								
		STD	0100	0283	3453	2755	0005542	0086	14629								
		OBS	0100	0283	34531	2755			14629								
		STD	0125	0335	3469	2763	0004837	0099	14657								
		OBS	0125	0335	34690	2763			14657								
		STD	0150	0358	3470	2761	0005000	0111	14671								
		OBS	0150	0358	34700	2761			14671								
		STD	0200	0398	3481	2766	0004586	0135	14698								
		OBS	0200	0398	34815	2766			14698								
		STD	0250	0395	3484	2768	0004425	0158	14705								
		OBS	0250	0395	34839	2768			14705								
		OBS	0280	0405	34860	2769			14715								
		STD	0300	0402	3486	2769	0004387	0180	14717								
		OBS	0300	0402	34860	2769			14717								
		OBS	0350	0384	34841	2770			14717								
		STD	0400	0390	3486	2771	0004319	0223	14728								
		OBS	0400	0390	34864	2771			14728								
		STD	0500	0395	3488	2772	0004329	0266	14747								
		OBS	0500	0395	34883	2772			14747								
		STD	0600	0385	3490	2774	0004184	0309	14760								
		OBS	0600	0385	34900	2774			14760								
		STD	0700	0388	3490	2774	0004280	0351	14778								
		OBS	0700	0388	34904	2774			14778								
		STD	0800	0383	3490	2775	0004308	0394	14792								
		OBS	0800	0383	34905	2775			14792								
		STD	0900	0374	3491	2776	0004253	0437	14805								
		OBS	0900	0374	34910	2776			14805								
		STD	1000	0370	3492	2777	0004224	0479	14820								
		OBS	1000	0370	34919	2777			14820								
		OBS	1025	0370	34919	2777			14825								

REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN		STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD	NOOC		
					10"	1"	MO	DAY	HR. 1/10	CRUISE		STATION	DIR			HGT	PER	SEA	TYPE				AMT	STATION
318039	EV	47590N	046100W	149	76	06	24	129	1968	003	10295	1079	1	30	5	3				X4	0	3		0256

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUAD	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318039	EV		47390N	046100W	149	76	06	24	148	1968	003	10296	1006	1	30	5	3		X2	03		0257	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. DBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER	(mba)	DRY BULB	WET BULB														
		DT	SD	30	S05	105	067	067	6					25									
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t 10 ³		Σ Δ D OYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - ct/l	TOTAL-P μg - ct/l	NO ₃ -N μg - ct/l	NO ₂ -N μg - ct/l	SIO ₄ -Si μg - ct/l	pH						
		STD	0000	0481	3357	2667	0013848		0000	14685													
148		OBS	0000	0481	33670	2667				14685													
		OBS	0005	0450	33700	2672				14673													
		STD	0010	0454	3380	2680	0012600		0013	14677													
002		OBS	0010	0454	33800	2680				14677													
		STD	0020	0439	3384	2685	0012121		0025	14673													
		OBS	0020	0439	33845	2685				14673													
		OBS	0025	0358	33780	2688				14638													
		STD	0030	0305	3390	2702	0010457		0036	14618													
		OBS	0030	0305	33899	2702				14618													
		OBS	0045	0323	33950	2705				14629													
		STD	0050	0295	3393	2706	0010152		0057	14618													
		OBS	0050	0295	33930	2706				14618													
		OBS	0059	0195	33850	2708				14574													
		STD	0075	0258	3440	2747	0006306		0078	14612													
		OBS	0075	0258	34400	2747				14612													
		STD	0100	0280	3454	2756	0005425		0092	14628													
		OBS	0100	0280	34543	2756				14628													
		STD	0125	0313	3460	2758	0005307		0106	14647													
		OBS	0125	0313	34600	2758				14647													
		STD	0150	0386	3478	2765	0004687		0118	14684													
		OBS	0150	0386	34779	2765				14684													
		OBS	0165	0419	34820	2764				14701													
		OBS	0175	0412	34810	2764				14700													
		STD	0200	0421	3484	2766	0004642		0141	14708													
		OBS	0200	0421	34840	2766				14708													
		OBS	0215	0452	34885	2766				14724													
		STD	0250	0450	3489	2767	0004629		0165	14729													
		OBS	0250	0450	34890	2767				14729													
		STD	0300	0449	3490	2767	0004611		0188	14737													
		OBS	0300	0449	34899	2767				14737													
		STD	0400	0429	3490	2769	0004501		0233	14745													
		OBS	0400	0429	34897	2769				14745													
		STD	0500	0420	3492	2773	0004297		0277	14758													
		OBS	0500	0420	34925	2773				14758													
		STD	0600	0400	3491	2773	0004296		0220	14766													
		OBS	0600	0400	34908	2773				14766													
		STD	0700	0387	3490	2774	0004296		0363	14777													
		OBS	0700	0387	34900	2774				14777													
		STD	0800	0375	3490	2775	0004239		0406	14789													
		OBS	0800	0375	34901	2775				14789													
		STD	0900	0369	3492	2778	0004118		0448	14803													
		OBS	0900	0369	34920	2778				14803													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METERS 1/10	W/RS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES	NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER			
318039	EV		47200N	046100W	149	76	06	24	168	1968	003	10297	0412	1	26	2	2		X2	03	0258

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	31	S07	110	089	078	7	22	

MESSENGER	CASE	CARD	DEPTH	T °C	S %	SIGMA-T	SPECIFIC VOLUME	Σ Δ O	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	TYPE	(m)				ANOMALY-2107	DYN. M.	VELOCITY		μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l		EC
HR 1/10								X 10 ³									
		STD	0000	0725	3374	2641	0016228	0000	14784								
168		OBS	0003	0725	33740	2641			14784								
		STD	0010	0720	3374	2642	0016153	0016	14784								
		OBS	0010	0720	33744	2642			14784								
		STD	0020	0716	3373	2642	0016204	0032	14783								
001		OBS	0020	0716	33732	2642			14783								
		OBS	0022	0715	33730	2642			14783								
		OBS	0025	0544	33660	2658			14714								
		STD	0030	0571	3371	2659	0014554	0047	14727								
		OBS	0030	0571	33714	2659			14727								
		OBS	0045	0575	33960	2678			14734								
		STD	0050	0600	3404	2682	0012484	0074	14746								
		OBS	0050	0600	34040	2682			14746								
		OBS	0068	0742	34350	2687			14810								
		OBS	0073	0700	34290	2688			14793								
		STD	0075	0720	3456	2707	0010180	0103	14805								
		OBS	0075	0720	34560	2707			14805								
		OBS	0090	0780	34750	2713			14833								
		STD	0100	0745	3470	2714	0009522	0127	14821								
		OBS	0100	0745	34700	2714			14821								
		STD	0125	0640	3461	2721	0008831	0150	14782								
		OBS	0125	0640	34610	2721			14782								
		STD	0150	0469	3437	2723	0008627	0172	14714								
		OBS	0150	0469	34370	2723			14714								
		OBS	0154	0458	34360	2724			14710								
		OBS	0162	0501	34640	2741			14732								
		OBS	0178	0452	34628	2746			14715								
		STD	0200	0454	3472	2753	0005882	0208	14720								
		OBS	0200	0454	34722	2753			14720								
		STD	0250	0454	3472	2753	0005935	0238	14729								
		OBS	0250	0454	34722	2753			14729								
		STD	0300	0451	3488	2766	0004774	0265	14738								
		OBS	0300	0451	34880	2766			14738								
		OBS	0350	0425	34901	2770			14735								

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DR.			HGT PER	SEA	TYPE	AMT					
						10"	1"	MO	DAY	HR. 1/10															
318039	EV		47090N	046100W		149	76	06	24	180	1968	003	10298		0348	1	27	3	5		X0	0	3		0259
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	SD	31	507		115	094				089	9	24							
MESSENGER TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C							
			STD	0000	0730	3375	2641	0016226	0000	14786															
180			OBS	0000	0730	33750	2641			14786															
			STD	0010	0723	3376	2643	0016090	0016	14785															
			OBS	0010	0723	33758	2643			14785															
			STD	0020	0722	3376	2643	0016087	0032	14786															
001			OBS	0020	0722	33758	2643			14786															
			OBS	0025	0635	33660	2647			14751															
			STD	0030	0630	3378	2657	0014766	0047	14752															
			OBS	0030	0630	33780	2657			14752															
			OBS	0045	0606	33940	2673			14747															
			STD	0050	0605	3399	2677	0012918	0075	14748															
			OBS	0050	0605	33990	2677			14748															
			STD	0075	0524	3416	2700	0010724	0104	14721															
			OBS	0075	0524	34160	2700			14721															
			STD	0100	0632	3456	2718	0009075	0129	14775															
			OBS	0100	0633	34560	2718			14775															
			OBS	0105	0652	34620	2721			14784															
			OBS	0116	0547	34535	2727			14742															
			STD	0125	0553	3456	2729	0008130	0151	14747															
			OBS	0125	0553	34560	2729			14747															
			OBS	0140	0600	34660	2731			14769															
			STD	0150	0515	3458	2735	0007571	0170	14735															
			OBS	0150	0515	34580	2735			14735															
			OBS	0175	0485	34500	2732			14726															
			OBS	0181	0512	34730	2747			14741															
			OBS	0198	0512	34720	2746			14744															
			STD	0200	0495	3470	2746	0006505	0206	14737															
			OBS	0200	0495	34700	2746			14737															
			OBS	0216	0438	34738	2756			14717															
			OBS	0239	0443	34750	2756			14723															
			OBS	0242	0420	34730	2757			14713															
			STD	0250	0422	3478	2761	0005151	0235	14716															
			OBS	0250	0422	34780	2761			14716															
			OBS	0265	0405	34840	2762			14733															
			STD	0300	0470	3491	2766	0004760	0259	14746															
			OBS	0300	0470	34910	2766			14746															

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		MOOC STATION NUMBER
CTRY CODE	IO, NO.					10°	1°	MD		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT	

318039	EV	47000N	046100W	149	76.06	24	189	1968	003	10299	0357	1	26	3	2		X2	0	3	0260
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WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	35	504	110	094	083	7	23	

DT	SD	35	504	110	094	083	7	23	
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MESSAGE TIME HR 1/10	CARD 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 $\mu\text{g} \cdot \text{dl/l}$	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
		STD	0000	0730	3370	2638	0016563	0000	14785								
189		OBS	0000	0730	33705	2638			14785								
		STD	0010	0729	3370	2638	0016570	0016	14787								
		OBS	0010	0729	33704	2638			14787								
001		OBS	0015	0700	33660	2639			14775								
		STD	0020	0600	3363	2649	0015511	0032	14736								
		OBS	0020	0600	33630	2649			14736								
		OBS	0025	0605	33695	2654			14740								
		STD	0030	0601	3374	2658	0014710	0047	14739								
		OBS	0030	0601	33740	2658			14739								
		OBS	0035	0596	33800	2663			14739								
		STD	0050	0599	3404	2682	0012466	0074	14746								
		OBS	0050	0599	34040	2682			14746								
		OBS	0055	0541	34100	2694			14724								
		OBS	0065	0539	34217	2703			14726								
		STD	0075	0491	3429	2714	0009382	0102	14709								
		OBS	0075	0491	34290	2714			14709								
		OBS	0079	0518	34340	2715			14722								
		STD	0100	0506	3441	2722	0008673	0124	14721								
		OBS	0100	0506	34411	2722			14721								
		OBS	0102	0524	34481	2726			14730								
		OBS	0117	0578	34620	2730			14756								
		STD	0125	0572	3463	2732	0007838	0145	14755								
		OBS	0143	0558	34650	2735			14753								
		STD	0150	0489	3456	2736	0007427	0164	14724								
		OBS	0150	0489	34560	2736			14724								
		OBS	0175	0492	34699	2747			14732								
		OBS	0192	0489	34690	2746			14733								
		STD	0200	0457	3480	2759	0005325	0195	14723								
		OBS	0200	0457	34800	2759			14723								
		OBS	0225	0495	34859	2759			14743								
		STD	0250	0478	3488	2763	0005024	0222	14741								
		OBS	0250	0478	34880	2763			14741								
		STD	0300	0440	3488	2767	0004622	0246	14733								
		OBS	0300	0440	34884	2767			14733								

REFERENCE		SNIP CODE	LATITUDE °	LONGITUDE °	DEPTH METER	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318039	EV		47000N	046285W		149	76	06	24	204	1968	003	10300	0384	1	28	3	2		X4	0	3	0261
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB															
		DT	SD	35	504	105	078	078	1	18													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C						
204		STD	0000	0740	3376	2641	0016283	0000	14790														
		OBS	0000	0740	33760	2641			14790														
		STD	0010	0729	3376	2642	0016153	0016	14787														
001		OBS	0010	0729	33760	2642			14787														
		STD	0020	0720	3372	2641	0016313	0032	14785														
		OBS	0020	0720	33725	2641			14785														
		OBS	0025	0670	33851	2658			14768														
		STD	0030	0663	3386	2659	0014578	0047	14766														
		OBS	0030	0663	33860	2659			14766														
		STD	0050	0648	3373	2651	0015391	0077	14761														
		OBS	0050	0648	33729	2651			14761														
		OBS	0065	0389	33600	2671			14656														
		STD	0075	0290	3386	2701	0010653	0110	14619														
		OBS	0075	0290	33860	2701			14619														
		OBS	0093	0300	34312	2736			14632														
		STD	0100	0328	3434	2736	0007348	0132	14646														
		OBS	0100	0328	34345	2736			14646														
		OBS	0105	0374	34500	2744			14668														
		STD	0125	0399	3454	2744	0006596	0150	14683														
		OBS	0125	0399	34539	2744			14683														
		STD	0150	0464	3471	2751	0006030	0166	14716														
		OBS	0150	0464	34709	2751			14716														
		OBS	0175	0479	34750	2752			14727														
		OBS	0190	0479	34770	2754			14730														
		STD	0200	0460	3478	2757	0005507	0195	14724														
		OBS	0200	0460	34780	2757			14724														
		STD	0250	0449	3486	2764	0004862	0220	14728														
		OBS	0250	0449	34858	2764			14728														
		STD	0300	0420	3490	2771	0004284	0243	14725														
		OBS	0300	0420	34900	2771			14725														

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

318039		EV	47000N	046450W		149	76	06	24	216	1968	003	10301		1216	1	31	2	2		X4	0 3		0262
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WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbs)		DRY BULB	WET BULB		

DT	SD	00	500	100	078	067	1	27	
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MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	S C C
		STD	0000	0443	3331	2642	0016183	0000	14664								
	216	OBS	0000	0443	33307	2642			14664								
		STD	0010	0350	3360	2675	0013095	0014	14630								
		OBS	0010	0350	33600	2675			14630								
	002	OBS	0015	0324	33799	2693			14623								
		STD	0020	0338	3380	2692	0011474	0026	14629								
		OBS	0020	0338	33802	2692			14629								
		OBS	0025	0300	33804	2695			14614								
		STD	0030	0265	3381	2699	0010797	0038	14600								
		OBS	0030	0265	33810	2699			14600								
		OBS	0042	0282	33860	2701			14610								
		STD	0050	0185	3390	2712	0009505	0058	14569								
		OBS	0050	0185	33900	2712			14569								
		OBS	0060	0132	33982	2723			14548								
		OBS	0070	0244	34210	2733			14603								
		STD	0075	0200	3418	2734	0007504	0079	14584								
		OBS	0075	0200	34180	2734			14584								
		OBS	0089	0158	34148	2734			14567								
		STD	0100	0250	3449	2755	0005534	0095	14614								
		OBS	0100	0250	34495	2755			14614								
		STD	0125	0279	3454	2756	0005476	0109	14631								
		OBS	0125	0279	34538	2756			14631								
		STD	0150	0415	3480	2763	0004823	0122	14597								
		OBS	0150	0415	34800	2763			14697								
		OBS	0165	0378	34791	2766			14684								
		STD	0200	0440	3486	2765	0004696	0146	14716								
		OBS	0200	0440	34860	2765			14716								
		STD	0250	0445	3490	2768	0004509	0169	14727								
		OBS	0250	0445	34899	2768			14727								
		STD	0300	0454	3491	2768	0004542	0192	14739								
		OBS	0300	0454	34915	2768			14739								
		STD	0400	0445	3491	2769	0004588	0237	14752								
		OBS	0400	0445	34910	2769			14752								
		STD	0500	0430	3492	2771	0004461	0282	14762								
		OBS	0500	0430	34918	2771			14762								
		STD	0600	0400	3491	2774	0004278	0326	14766								
		OBS	0600	0400	34910	2774			14766								
		STD	0700	0394	3491	2774	0004290	0369	14781								
		OBS	0700	0394	34912	2774			14781								
		STD	0800	0384	3491	2776	0004239	0412	14793								
		OBS	0800	0384	34915	2776			14793								
		STD	0900	0379	3492	2776	0004255	0454	14808								
		OBS	0900	0379	34720	2761P											
		STD	1000	0375	3492	2777	0004245	0497	14823								
		OBS	1000	0375	34924	2777			14823								
		STD	1100	0366	3493	2779	0004148	0539	14836								
		OBS	1100	0366	34934	2779			14836								

REFERENCE STATION CODE	SNIP ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIR 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		
							10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE		AMT	
318039	EV		47000N	046590W		149	76	06	24	229	1968	003	10302		1216	1	31	2	3		X4	0	3		0263
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
OT	SO	00	SOO	100	078	067	1	31																	
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	S C C								
		STD	0000	0355	3308	2633	0017025	0000	14624																
	229	OBS	0000	0355	33085	2633			14624																
		STD	0010	0330	3307	2635	0016886	0017	14614																
		OBS	0010	0330	33075	2635			14614																
	002	OBS	0013	0437	33938	2693			14672																
		STD	0020	0438	3398	2696	0011072	0030	14674																
		OBS	0020	0438	33983	2696			14674																
		OBS	0023	0443	33989	2696			14677																
		OBS	0025	0430	33970	2696			14671																
		STD	0030	0390	3392	2696	0011078	0042	14655																
		OBS	0030	0390	33920	2696			14655																
		OBS	0046	0380	34020	2705			14655																
		STD	0050	0117	3386	2714	0009351	0062	14538																
		OBS	0050	0117	33860	2714			14538																
		OBS	0064	0179	34020	2723			14570																
		STD	0075	0126	3399	2724	0008427	0084	14548																
		OBS	0075	0126	33990	2724			14548																
		OBS	0076	0113	34080	2732			14544																
		OBS	0082	0116	34145	2737			14547																
		OBS	0090	0159	34222	2740			14569																
		STD	0100	0156	3426	2743	0006591	0103	14570																
		OBS	0100	0156	34260	2743			14570																
		STD	0125	0239	3445	2752	0005797	0118	14613																
		OBS	0125	0239	34450	2752			14613																
		OBS	0138	0238	34445	2752			14614																
		STD	0150	0288	3461	2761	0005037	0132	14640																
		OBS	0150	0288	34609	2761			14640																
		STD	0200	0392	3481	2767	0004565	0156	14696																
		OBS	0200	0392	34810	2767			14696																
		OBS	0211	0395	34815	2767			14699																
		OBS	0230	0366	34747	2764			14689																
		STD	0250	0378	3480	2767	0004558	0179	14698																
		OBS	0250	0378	34797	2767			14698																
		STD	0300	0399	3485	2769	0004448	0201	14716																
		OBS	0300	0399	34848	2769			14716																
		STD	0400	0422	3490	2770	0004404	0246	14742																
		OBS	0400	0422	34900	2770			14742																
		STD	0500	0421	3492	2772	0004325	0289	14759																
		OBS	0500	0421	34922	2772			14759																
		OBS	0525	0406	34900	2772			14756																
		STD	0600	0417	3492	2773	0004356	0333	14774																
		OBS	0600	0417	34925	2773			14774																
		STD	0700	0401	3492	2775	0004285	0376	14784																
		OBS	0700	0401	3412P	2711P																			
		STD	0800	0390	3492	2776	0004259	0419	14796																
		OBS	0800	0390	34922	2776			14796																
		STD	0900	0382	3492	2777	0004235	0461	14809																
		OBS	0900	0382	34925	2777			14809																
		STD	1000	0375	3493	2778	0004201	0503	14823																
		OBS	1000	0375	34930	2778			14823																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OUT IN	W/RSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	47000N	047140W			14	77	06	25	002	1968	003	10305	0470	1	31	2	3		44	0	3	0264
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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			

DT	SD	00	S00	980	061	556	1	28	
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MESSNGR TIME OF HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SIO ₄ -Si $\mu g - \sigma_t/l$	pH	SC
		STD	0000	0363	3267	2599	0020240	0000	14621								
002		OBS	0000	0363	32668	2599			14621								
		OBS	0009	0280	32640	2604			14587								
		STD	0010	0192	3266	2613	0018946	0019	14549								
001		OBS	0010	0192	32660	2613			14549								
		STD	0020	0122	3277	2626	0017659	0037	14521								
		OBS	0020	0122	32770	2626			14521								
		OBS	0025	-0003	32780	2634			14465								
		OBS	0027	0041	33060	2654			14489								
		STD	0030	0011	3302	2653	0015161	0054	14475								
		OBS	0030	0011	33020	2653			14475								
		OBS	0036	-0056	33100	2662			14447								
		OBS	0041	-0026	33300	2677			14464								
		STD	0050	-0079	3326	2676	0012919	0082	14441								
		OBS	0050	-0079	33263	2676			14441								
		STD	0075	-0005	3363	2702	0010430	0111	14484								
		OBS	0075	-0005	33628	2702			14484								
		OBS	0079	0006	33642	2703			14490								
		OBS	0090	0008	33700	2708			14493								
		STD	0100	0098	3396	2723	0008478	0135	14539								
		OBS	0100	0098	33960	2723			14539								
		OBS	0106	0119	34000	2725			14550								
		OBS	0118	0120	34010	2726			14553								
		STD	0125	0111	3404	2729	0007953	0155	14551								
		OBS	0125	0111	34040	2729			14551								
		OBS	0130	0108	34040	2729			14550								
		STD	0150	0174	3430	2745	0006433	0173	14586								
		OBS	0150	0174	34300	2745			14586								
		OBS	0167	0230	34435	2752			14616								
		STD	0200	0268	3450	2754	0005672	0204	14638								
		OBS	0200	0268	34505	2754			14638								
		STD	0250	0318	3464	2761	0005123	0231	14670								
		OBS	0250	0318	34643	2761			14670								
		STD	0300	0357	3473	2764	0004911	0256	14696								
		OBS	0300	0357	34728	2764			14696								
		OBS	0329	0384	34784	2765			14713								
		OBS	0345	0384	34786	2765			14716								
		OBS	0347	0398	34830	2767			14723								
		OBS	0350	0399	34830	2767			14724								
		STD	0400	0402	3484	2768	0004663	0303	14733								
		OBS	0400	0402	34836	2768			14733								

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WASSEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
						10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DIR	HGT		PER	SEA	TYPE	AMT
						10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DIR	HGT		PER	SEA	TYPE	AMT
318039	EV		47300N	047300W	149	77	06	25	016	1968	003	10304	0227	1	31	2	3		X4	0	3		0265
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB												
						DT	SD	OC	SOO	091	056	000	1				19						
MESSNGR TIME HR 1/10		CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. 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 CC			
			STD	0000	0354	3251	2588		0021318		0000	14616											
016			OBS	0000	0354	32515	2588					14616											
			STD	0010	0327	3248	2588		0021332		0021	14605											
			OBS	0010	0327	32482	2588					14605											
001			OBS	0017	0179	32470	2599					14541											
			STD	0020	0185	3249	2600		0020197		0042	14545											
			OBS	0020	0185	32490	2600					14545											
			OBS	0025	0128	32500	2604					14520											
			OBS	0027	0108	32530	2608					14512											
			STD	0030	0154	3257	2608		0019390		0061	14534											
			OBS	0030	0154	32569	2608					14534											
			OBS	0031	0143	32597	2611					14529											
			OBS	0034	0155	32627	2613					14536											
			STD	0050	-0045	3294	2650		0015350		0096	14430											
			OBS	0050	-0045	32943	2650					14433											
			OBS	0064	-0138	33118	2666					14413											
			STD	0075	-0064	3347	2687		0011917		0130	14454											
			OBS	0075	-0064	33400	2687					14454											
			OBS	0085	-0010	33580	2699					14483											
			OBS	0092	-0025	33600	2701					14477											
			STD	0100	0016	3365	2703		0010341		0458	14436											
			OBS	0100	0016	33653	2703					14498											
			STD	0125	0073	3363	2714		0009310		0183	14531											
			OBS	0125	0073	33830	2714					14531											
			OBS	0148	0119	34005	2726					14557											
			STD	0150	0140	3403	2726		0008230		0205	14567											
			OBS	0150	0140	34030	2726					14567											
			STD	0200	0167	3409	2729		0007994		0245	14589											
			OBS	0200	0167	34089	2729					14589											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	WASSEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT		PER	SEA	TYPE	AMT
318039	EV	47000N	047440W	149	77	06	25	025	1968	003	10305	0174	1	31	2	3		X4	0	3		0266	
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB															
		DT	SD	35	S10	091	061	056	1	14													
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. 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 ₃ -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	0421	3256	2585	0021581	0000	14645														
025		OBS	0000	0421	32561	2585			14645														
		STD	0010	0421	3256	2585	0021588	0021	14646														
		OBS	0010	0421	32561	2585			14646														
001		STD	0020	0106	3249	2605	0019695	0042	14510														
		OBS	0020	0106	32490	2605			14510														
		OBS	0025	0045	32503	2609			14483														
		STD	0030	0006	3268	2626	0017712	0060	14468														
		OBS	0030	0006	32683	2626			14468														
		OBS	0035	-0074	32791	2638			14434														
		STD	0050	-0130	33011	2657	0014701	0093	14413														
		OBS	0050	-0130	33009	2657			14413														
		OBS	0060	-0129	33078	2663			14416														
		OBS	0067	-0100	33110	2664			14431														
		OBS	0074	-0100	33113	2665			14433														
		STD	0075	-0108	3311	2665	0013984	0129	14429														
		OBS	0075	-0108	33110	2665			14429														
		OBS	0080	-0111	33148	2668			14429														
		STD	0100	-0055	3333	2681	0012441	0462	14461														
		OBS	0100	-0055	33335	2681			14461														
		STD	0125	0032	3363	2700	0010622	0191	14509														
		OBS	0125	0032	33627	2700			14509														

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'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
318039	EV		47000N	048000W		149	78	06	25	036	1968	003	10306	0133	1	31	2	2		X4	0 3		0267
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE				DRY BULB		WET BULB												
		DT	SD	02	S11				091		061	056					1	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 ₄ -Si $\mu\text{g} - \text{at/l}$	pH			
		STD	0000	0436	3259	2586		0021509		0000		14651											
	036	OBS	0000	0436	32590	2586						14651											
		OBS	0005	0435	32588	2586						14652											
		STD	0010	0421	3259	2587		0021398		0021		14647											
	001	OBS	0010	0421	32587	2587						14647											
		OBS	0014	0291	32640	2603						14592											
		STD	0020	0288	3265	2605		0019732		0042		14592											
		OBS	0020	0288	32652	2605						14592											
		OBS	0025	0265	32640	2606						14583											
		STD	0030	0234	3263	2607		0019478		0061		14570											
		OBS	0030	0234	32631	2607						14570											
		STD	0050	-0016	3301	2653		0015125		0096		14466											
		OBS	0050	-0016	33008	2653						14466											
		OBS	0055	-0041	33035	2656						14456											
		OBS	0064	-0041	33104	2662						14458											
		STD	0075	-0021	3321	2670		0013534		0132		14471											
		OBS	0075	-0021	33212	2670						14471											
		OBS	0091	-0009	33305	2677						14480											
		STD	0100	0025	3351	2691		0011480		0163		14500											
		OBS	0100	0025	33510	2691						14500											
		OBS	0115	0053	33640	2700						14517											

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'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318039	EV		47000N	048140W	149	78	06	25	043	1968	003	10307	0119	1	32	1	2		X4	0 13		0268
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	SD	02	S12		090	061					056	1	13			
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH			
		STD	0000	0494	3261	2581		0021944		0000		14676										
	043	OBS	0000	0494	32610	2581						14676										
		OBS	0007	0492	32610	2581						14676										
		STD	0010	0475	3259	2582		0021070		0021		14669										
	001	OBS	0010	0475	32595	2582						14669										
		STD	0020	0313	3248	2589		0021245		0043		14601										
		OBS	0020	0313	32479	2589						14601										
		OBS	0025	0304	32633	2602						14600										
		STD	0030	0300	3266	2604		0019701		0064		14599										
		OBS	0030	0300	32653	2604						14599										
		OBS	0036	0299	32671	2605						14600										
		STD	0050	0120	3270	2621		0018183		0102		14524										
		OBS	0050	0120	32700	2621						14524										
		OBS	0054	0028	32760	2631						14484										
		STD	0075	-0012	3308	2658		0014503		0142		14473										
		OBS	0075	-0012	33079	2658						14473										
		OBS	0090	-0015	33132	2663						14473										
		OBS	0094	-0001	33216	2660						14483										
		STD	0100	0014	3334	2678		0012714		0177		14493										
		OBS	0100	0014	33340	2678						14493										

REFERENCE CITY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	M/2SDEN SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
						WATER	WIND	BARO- METER (mb)	AIR TEMP. °C														
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
DT	SD	33	511	150	083	078	7	47															
MESSAGE TIME OF HR 1/10	CAS 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	CLD						
		STD	0000	0912	3309	2578	0022270	0000	14809														
208		OBS	0000	0812	33089	2578			14809														
		STD	0010	0760	3299	2578	0022303	0022	14789														
		OBS	0010	0760	32990	2578			14789														
003		OBS	0015	0592	32725	2579			14720														
		STD	0020	0595	3275	2581	0022039	0044	14722														
		OBS	0020	0595	32750	2581			14722														
		OBS	0025	0598	32790	2583			14725														
		STD	0030	0614	3300	2598	0020403	0065	14735														
		OBS	0030	0614	33000	2598			14735														
		OBS	0035	0700	33280	2609			14774														
		OBS	0040	0500	33000	2611			14690														
		OBS	0041	0644	33300	2618			14753														
		OBS	0045	0562	33175	2618			14719														
		STD	0050	0752	3395	2654	0015114	0101	14805														
		OBS	0050	0752	33950	2654			14805														
		STD	0075	0941	3490	2699	0010902	0133	14893														
		OBS	0075	0941	34900	2699			14893														
		STD	0100	0794	3465	2703	0010580	0160	14839														
		OBS	0100	0794	34650	2703			14839														
		OBS	0105	0805	34710	2706			14845														
		OBS	0115	0748	34630	2708			14823														
		STD	0125	0799	3478	2712	0009732	0186	14846														
		OBS	0125	0799	34780	2712			14846														
		OBS	0148	0681	34585	2714			14802														
		STD	0150	0695	3470	2721	0008913	0209	14809														
		OBS	0150	0695	34700	2721			14809														
		OBS	0161	0791	34900	2723			14851														
		OBS	0185	0674	34700	2724			14807														
		STD	0200	0720	3482	2727	0008445	0252	14829														
		OBS	0200	0720	34820	2727			14829														
		OBS	0209	0734	34903	2731			14837														
		STD	0250	0648	3480	2736	0007639	0292	14808														
		OBS	0250	0646	34805	2736			14808														
		OBS	0255	0600	34729	2736			14789														
		STD	0300	0559	3474	2742	0007042	0329	14780														
		OBS	0300	0559	34745	2742			14780														
		OBS	0325	0514	34772	2750			14766														
		OBS	0339	0516	34810	2753			14770														
		OBS	0355	0479	34780	2755			14757														
		STD	0400	0518	3490	2760	0005518	0392	14782														
		OBS	0400	0518	34900	2760			14782														
		OBS	0411	0525	34920	2760			14787														
		OBS	0420	0514	34905	2760			14784														
		OBS	0430	0525	34960	2764			14791														
		STD	0500	0513	3498	2767	0004980	0444	14798														
		OBS	0500	0513	34980	2767			14798														
		STD	0600	0472	3496	2770	0004748	0493	14797														
		OBS	0600	0472	34960	2770			14797														
		OBS	0619	0473	34978	2771			14801														
		OBS	0641	0485	35002	2772			14810														
		OBS	0658	0469	34960	2770			14805														
		OBS	0670	0477	35003	2773			14811														
		STD	0700	0467	3500	2773	0004529	0539	14812														
		STD	0800	0450	3499	2775	0004473	0584	14821														
		OBS	0800	0450	34990	2775			14821														
		OBS	0887	0455	35007	2775			14838														
		STD	0900	0450	3500	2775	0004498	0629	14838														
		OBS	0900	0450	35001	2775			14838														
		STD	1000	0421	3498	2777	0004391	0674	14843														
		OBS	1000	0421	34980	2777			14843														
		STD	1100	0418	3498	2778	0004427	0718	14858														
		OBS	1100	0418	34983	2778			14858														
		STD	1200	0407	3498	2778	0004403	0762	14870														
		OBS	1200	0407	34980	2778			14870														
		STD	1300	0395	3497	2779	0004406	0806	14882														
		OBS	1300	0395	34972	2779			14882														
		STD	1400	0389	3497	2780	0004432	0850	14896														
		OBS	1400	0389	34970	2780			14896														
		STD	1500	0385	3498	2781	0004391	0894	14911														
		OBS	1500	0385	34980	2781			14911														

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MO	DAY	HR	1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
									CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA		TYPE	AMT			
																				10"	1'
318039	EV	4415 N	04712 W	149	47	06	25	236	1968	003	10309	4169	1	36	2	2		X2	013		0270
				WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB															
DT		SD	33	511	150	094	089	7	41												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t × 10 ³	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C				
236		STD	0000	0831	3308	2574	0022596	0000	14816												
		OBS	0000	0831	33081	2574			14816												
003		STD	0010	0580	3308	2608	0019382	0021	14719												
		OBS	0010	0580	33080	2608			14719												
		STD	0020	0490	3315	2624	0017868	0039	14685												
		OBS	0020	0490	33150	2624			14685												
		OBS	0025	0445	33300	2641			14669												
		STD	0030	0439	3340	2650	0015467	0056	14668												
		OBS	0030	0439	33400	2650			14668												
		OBS	0036	0341	33440	2663			14628												
		STD	0050	0435	3390	2690	0011687	0083	14677												
		OBS	0050	0435	33900	2690			14677												
		OBS	0057	0461	33550	2691			14689												
		OBS	0062	0242	33960	2713			14597												
		STD	0075	0491	3428	2714	0009454	0109	14709												
		OBS	0075	0491	34280	2714			14709												
		OBS	0087	0478	34220	2715			14688												
		OBS	0093	0500	34306	2715			14716												
		STD	0100	0484	3428	2715	0009372	0133	14710												
		OBS	0100	0484	34285	2715			14710												
		OBS	0111	0373	34160	2717			14664												
		OBS	0120	0442	34350	2725			14697												
	STD	0125	0436	3434	2725	0008428	0155	14695													
	OBS	0125	0436	34345	2725			14695													
	OBS	0133	0421	34325	2725			14690													
	STD	0150	0520	3448	2726	0008375	0176	14736													
	OBS	0150	0520	34480	2726			14736													
	OBS	0162	0492	34585	2738			14728													
	STD	0200	0441	3454	2740	0007064	0215	14713													
	OBS	0200	0441	34545	2740			14713													
	OBS	0221	0449	34578	2742			14720													
	OBS	0235	0507	34710	2746			14748													
	OBS	0242	0471	34660	2746			14733													
	STD	0250	0505	3480	2753	0005430	0247	14751													
	OBS	0250	0505	34800	2753			14751													
	STD	0300	0469	3483	2760	0005361	0276	14744													
	OBS	0300	0469	34828	2760			14744													
	STD	0400	0498	3496	2767	0004827	0326	14775													
	OBS	0400	0498	34960	2767			14775													
	STD	0500	0449	3491	2768	0004725	0374	14770													
	OBS	0500	0449	34912	2768			14770													
	OBS	0567	0449	34942	2771			14782													
	STD	0600	0429	3492	2771	0004543	0421	14779													
	OBS	0600	0429	34919	2771			14779													
	OBS	0683	0424	34960	2775			14791													
	STD	0700	0443	3499	2775	0004302	0465	14802													
	OBS	0700	0443	34988	2775			14802													
	OBS	0734	0411	34946	2775			14794													
	OBS	0757	0438	34998	2777			14809													
	STD	0800	0441	3500	2777	0004278	0508	14818													
	OBS	0800	0441	35002	2777			14818													
	STD	0900	0430	3499	2777	0004348	0551	14830													
	OBS	0900	0430	34988	2777			14830													
	STD	1000	0414	3498	2778	0004312	0594	14840													
	OBS	1000	0414	34975	2778			14840													
	STD	1100	0410	3498	2778	0004335	0637	14855													
	OBS	1100	0410	34982	2778			14855													
	STD	1200	0405	3498	2779	0004348	0681	14869													
	OBS	1200	0405	34981	2779			14869													
	STD	1300	0394	3498	2780	0004341	0724	14882													
	OBS	1300	0394	34979	2780			14882													
	STD	1400	0385	3497	2780	0004348	0768	14894													
	OBS	1400	0385	34975	2780			14894													
	STD	1500	0380	3498	2781	0004347	0811	14909													
	OBS	1500	0380	34977	2781			14909													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	WARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
318039		EV	44190N	047330W	149	47	06	26	016	1968	003	10310	3968	1	35	2	3		X2	0	3		0271
		WATER COLOR CODE	WIND TRANS. (m)	WIND DIR.	SPEED OR FORCE	BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
							DRY BULB	WET BULB															
DT	SO						33	S10					260	089	078	7	50						
MESSENGER 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 - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S CC					
		STD	0000	0759	3301	2579		0022125	0000	14787													
	016	OBS	0000	0759	33010	2579				14787													
		STD	0010	0609	3308	2605		0019718	0020	14731													
		OBS	0010	0609	33080	2605				14731													
	003	OBS	0013	0576	33140	2614				14719													
		OBS	0017	0613	33200	2614				14735													
		STD	0020	0539	3311	2615		0018721	0040	14704													
		OBS	0025	0442	33000	2618				14663													
		OBS	0028	0400	32965	2619				14646													
		STD	0030	0453	3321	2633		0017069	0058	14672													
		OBS	0042	0572	34000	2682				14733													
		STD	0050	0460	3390	2687		0011952	0087	14687													
		OBS	0050	0460	33900	2687				14687													
		OBS	0053	0413	33840	2687				14667													
		OBS	0063	0318P	34250	2729P																	
		OBS	0072	0481	34200	2708				14703													
		STD	0075	0572	3443	2716		0009261	0113	14744													
		OBS	0075	0572	34430	2716				14744													
		OBS	0086	0556	34400	2716				14739													
		STD	0100	0608	3450	2717		0009212	0136	14764													
		OBS	0100	0608	34500	2717				14764													
		OBS	0122	0523	34400	2719				14732													
		OBS	0123	0555	34460	2720				14746													
		STD	0125	0530	3442	2720		0008907	0159	14735													
		OBS	0125	0530	34420	2720				14735													
		OBS	0131	0451	34340	2723				14703													
		STD	0150	0578	3470	2736		0007422	0179	14763													
		OBS	0150	0578	34700	2736				14763													
		OBS	0160	0572	34690	2736				14762													
		OBS	0164	0590	34740	2738				14770													
		OBS	0180	0498	34605	2739				14734													
		OBS	0192	0529	34765	2748				14750													
		STD	0200	0475	3470	2749		0006279	0214	14729													
		OBS	0200	0475	34700	2749				14729													
		OBS	0204	0485	34740	2751				14734													
		OBS	0212	0466	34790	2757				14728													
		OBS	0230	0520	34860	2756				14754													
		STD	0250	0508	3484	2756		0005662	0243	14752													
		OBS	0250	0508	34840	2756				14752													
		OBS	0282	0479	34835	2759				14746													
		STD	0300	0509	3492	2762		0005139	0270	14762													
		OBS	0300	0509	34920	2762				14762													
		OBS	0312	0485	34890	2763				14754													
		OBS	0333	0491	34918	2764				14760													
		OBS	0362	0470	34898	2765				14756													
		STD	0400	0470	3492	2767		0004765	0320	14763													
		OBS	0400	0470	34925	2767				14763													
		OBS	0422	0468	34920	2767				14765													
		OBS	0451	0444	34918	2770				14760													
		OBS	0480	0448	34940	2771				14767													
		STD	0500	0474	3499	2772		0004433	0366	14782													
		OBS	0500	0474	34990	2772				14782													
		OBS	0522	0453	34962	2772				14776													
		OBS	0550	0461	34980	2773				14784													
		STD	0600	0458	3499	2774		0004353	0410	14792													
		OBS	0600	0458	34990	2774				14792													
		STD	0700	0439	3498	2775		0004313	0453	14800													
		OBS	0700	0439	34979	2775				14800													
		STD	0800	0432	3498	2776		0004332	0496	14814													
		OBS	0800	0432	34979	2776				14814													
		STD	0900	0420	3498	2777		0004282	0539	14826													
		OBS	0900	0420	34980	2777				14826													
		STD	1000	0414	3499	2778		0004241	0582	14840													
		OBS	1000	0414	34989	2778				14840													
		STD	1100	0406	3498	2779		0004298	0625	14853													
		OBS	1100	0406	34980	2779				14853													
		STD	1200	0395	3497	2779		0004307	0668	14865													
		OBS	1200	0395	34973	2779				14865													
		STD	1300	0389	3497	2779		0004361	0711	14879													
		OBS	1300	0389	34968	2779				14879													
		STD	1400	0385	3497	2780		0004392	0755	14894													
		OBS	1400	0385	34969	2780				14894													
		STD	1500	0379	3497	2780		0004396	0799	14909													
		OBS	1500	0379	34969	2780				14909													

REF CODE	SHIP NO.	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARS 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	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
					WATER	WIND	AIR TEMP. °C		VIS. CODE													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB																
DT	SD	34	502	260	094	083	7	46														
MESSNGR TIME OF HR 1/10	CST 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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC					
		STD	0000	0776	3306	2581	0021953	0000	14795													
037		OBS	0000	0776	33065	2581			14795													
		STD	0010	0580	3304	2605	0019681	0020	14718													
		OBS	0010	0580	33040	2605			14718													
003		OBS	0015	0665	33500	2631			14759													
		STD	0020	0535	3329	2631	0017264	0039	14705													
		OBS	0020	0535	33295	2631			14705													
		OBS	0025	0601	33390	2630			14734													
		STD	0030	0575	3358	2648	0015603	0055	14727													
		OBS	0030	0575	33580	2648			14727													
		OBS	0039	0524	33652	2660			14708													
		STD	0050	0616	3420	2692	0011483	0082	14755													
		OBS	0050	0616	34200	2692			14755													
		OBS	0069	0639	34400	2705			14770													
		STD	0075	0631	3445	2710	0009795	0109	14768													
		OBS	0075	0631	34455	2710			14768													
		OBS	0084	0673	34608	2717			14789													
		OBS	0095	0645	34565	2717			14779													
		STD	0100	0671	3465	2720	0008910	0132	14791													
		OBS	0100	0671	34648	2720			14791													
		OBS	0110	0695	34680	2719			14802													
		STD	0125	0590	3460	2727	0008276	0154	14762													
		OBS	0125	0590	34600	2727			14762													
		OBS	0139	0534	34500	2726			14740													
		OBS	0145	0595	34740	2737			14769													
		STD	0150	0540	3470	2741	0006958	0173	14747													
		OBS	0150	0540	34700	2741			14747													
		OBS	0165	0593	34800	2742			14772													
		OBS	0187	0580	34780	2743			14771													
		STD	0200	0534	3472	2743	0006802	0207	14753													
		OBS	0200	0534	34720	2743			14753													
		OBS	0210	0529	34710	2743			14753													
		OBS	0214	0540	34760	2746			14759													
		OBS	0231	0499	34718	2747			14744													
		STD	0250	0564	3491	2755	0005812	0239	14776													
		OBS	0250	0564	34910	2755			14776													
		OBS	0260	0595	34975	2756			14791													
		STD	0300	0535	3491	2758	0005525	0267	14773													
		OBS	0300	0535	34910	2758			14773													
		OBS	0342	0451	34825	2761			14744													
		STD	0400	0487	3495	2767	0004772	0319	14770													
		OBS	0400	0487	34950	2767			14770													
		OBS	0420	0460	34910	2767			14762													
		OBS	0472	0452	34923	2769			14767													
		OBS	0489	0459	34942	2770			14773													
		STD	0500	0457	3496	2771	0004475	0365	14774													
		OBS	0500	0457	34958	2771			14774													
		OBS	0530	0479	35015	2773			14789													
		STD	0600	0431	3494	2773	0004421	0409	14780													
		OBS	0600	0431	34938	2773			14780													
		STD	0700	0412	3493	2774	0004374	0453	14788													
		OBS	0700	0412	34928	2774			14788													
		STD	0800	0411	3494	2775	0004336	0497	14805													
		OBS	0800	0411	34945	2775			14805													
		STD	0900	0395	3493	2776	0004326	0540	14814													
		OBS	0900	0395	34933	2776			14814													
		OBS	0988	0389	34940	2777			14827													
		STD	1000	0397	3495	2777	0004316	0583	14832													
		OBS	1000	0397	34950	2777			14832													
		OBS	1060	0398	34950	2777			14843													
		STD	1100	0384	3495	2778	0004249	0626	14843													
		OBS	1100	0384	34950	2778			14843													
		STD	1200	0389	3495	2778	0004405	0669	14862													
		OBS	1200	0389	34950	2778			14862													
		STD	1300	0381	3495	2779	0004416	0714	14876													
		OBS	1300	0381	34947	2779			14876													
		STD	1400	0373	3494	2779	0004422	0758	14889													
		OBS	1400	0373	34943	2779			14889													
		STD	1500	0371	3495	2780	0004420	0802	14905													
		OBS	1500	0371	34951	2780			14905													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS NO.	M/RSDEN 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
313039	EV		44250N	048080W	149	48	06	26	051	1968	003	10314	3658	1	33	1	4		X4	0 3		0273	
		WATER COLOR CODE	TRANS. (m)	DIR.	WIND SPEED OR FORCE	BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
							DRY BULB	WET BULB															
							DT	SD	00	S00	150	083	078	7	31								
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	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C					
		STD	0000	0726	3300	2583	0021762		0000	14774													
	051	OBS	0000	0726	33000	2583				14774													
		STD	0010	0525	3308	2615	0018756		0020	14696													
		OBS	0010	0525	33080	2615				14696													
		STD	0020	0394	3315	2634	0016904		0038	14644													
	003	OBS	0020	0394	33150	2634				14644													
		OBS	0025	0380	33166	2637				14640													
		STD	0030	0240	3319	2652	0015280		0054	14580													
		OBS	0030	0240	33191	2652				14580													
		STD	0050	0131	3351	2685	0012099		0081	14540													
		OBS	0050	0131	33510	2685				14540													
		OBS	0056	0113	33600	2693				14534													
		OBS	0066	0131	33740	2703				14546													
		STD	0075	0105	3390	2718	0008973		0107	14538													
		OBS	0075	0105	33900	2719				14538													
		OBS	0084	0137	34040	2727				14555													
		OBS	0085	0116	34200	2741				14548													
		STD	0100	0299	3438	2741	0006827		0127	14634													
		OBS	0100	0299	34380	2741				14634													
		STD	0125	0341	3443	2742	0006812		0144	14657													
		OBS	0125	0341	34435	2742				14657													
		STD	0150	0350	3451	2747	0006348		0161	14665													
		OBS	0150	0350	34510	2747				14665													
		STD	0200	0461	3480	2758	0005372		0190	14724													
		OBS	0200	0461	34800	2758				14724													
		OBS	0225	0486	34840	2759				14739													
		OBS	0235	0512	34930	2763				14753													
		STD	0250	0518	3494	2763	0005048		0216	14758													
		OBS	0250	0518	34938	2763				14758													
		STD	0300	0486	3492	2765	0004871		0241	14753													
		OBS	0300	0486	34920	2765				14753													
		STD	0400	0459	3493	2768	0004629		0288	14758													
		OBS	0400	0459	34926	2768				14758													
		STD	0500	0449	3494	2771	0004520		0334	14771													
		OBS	0500	0449	34940	2771				14771													
		STD	0600	0421	3495	2775	0004210		0378	14776													
		OBS	0600	0421	34951	2775				14776													
		STD	0700	0414	3494	2774	0004315		0420	14789													
		OBS	0700	0414	34939	2774				14789													
		STD	0800	0409	3494	2775	0004341		0464	14804													
		OBS	0800	0409	34941	2775				14804													
		STD	0900	0402	3495	2776	0004305		0507	14818													
		OBS	0900	0402	34948	2776				14818													
		STD	1000	0385	3492	2776	0004384		0550	14827													
		OBS	1000	0385	34922	2776				14827													
		STD	1100	0378	3492	2777	0004401		0594	14841													
		OBS	1100	0378	34920	2777				14841													
		STD	1200	0378	3494	2778	0004346		0638	14858													
		OBS	1200	0378	34939	2778				14858													
		STD	1300	0374	3493	2778	0004438		0682	14872													
		OBS	1300	0374	34932	2778				14872													
		STD	1400	0370	3493	2778	0004465		0726	14888													
		OBS	1400	0370	34932	2778				14888													
		STD	1500	0365	3494	2780	0004425		0771	14902													
		OBS	1500	0365	34940	2780				14902													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	HARSDEN 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
						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																		
318039	EV	44300N	048360W	149	48	06	26	080	1968	003	10314	2140	1	24	0	2		X4	0	3	0275		
				DT	SU	20	S10	140	061	056	7	42											
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ O OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C						
		STD	0000	0544	3493	2601	0020086	0000	14701														
	080	OBS	0000	0544	34930	2601			14701														
		STD	0010	0302	3303	2633	0017012	0018	14602														
		OBS	0010	0302	33026	2633			14602														
		STD	0020	0200	3344	2675	0013094	0033	14565														
	003	OBS	0020	0200	33440	2675			14565														
		OBS	0025	0240	33679	2691			14586														
		STD	0030	0264	3388	2705	0010255	0045	14600														
		OBS	0030	0264	33880	2705			14600														
		OBS	0042	0436	34198	2713			14680														
		STD	0050	0395	3428	2724	0008431	0064	14665														
		OBS	0050	0395	34280	2724			14665														
		OBS	0061	0419	34320	2725			14677														
		OBS	0064	0483	34410	2725			14706														
		OBS	0069	0401	34320	2727			14671														
		STD	0075	0497	3448	2729	0008029	0084	14714														
		OBS	0075	0497	34480	2729			14714														
		OBS	0081	0525	34525	2729			14727														
		OBS	0091	0452	34460	2732			14698														
		STD	0100	0460	3448	2733	0007652	0104	14703														
		OBS	0100	0460	34480	2733			14703														
		OBS	0113	0410	34415	2733			14683														
		OBS	0121	0462	34487	2733			14707														
		STD	0125	0416	3445	2735	0007439	0123	14688														
		OBS	0125	0416	34450	2735			14688														
		STD	0150	0418	3460	2747	0006356	0140	14695														
		OBS	0150	0418	34600	2747			14695														
		OBS	0186	0495	34780	2753			14736														
		OBS	0192	0492	34777	2753			14735														
		STD	0200	0481	3478	2755	0005724	0170	14732														
		OBS	0200	0481	34783	2755			14732														
		OBS	0217	0469	34781	2756			14730														
		OBS	0227	0481	34830	2758			14737														
		OBS	0241	0429	34750	2758			14717														
		STD	0250	0436	3477	2759	0005358	0198	14722														
		OBS	0250	0436	34772	2759			14722														
		STD	0300	0444	3485	2765	0004876	0223	14734														
		OBS	0300	0444	34855	2765			14734														
		OBS	0332	0448	34891	2767			14742														
		OBS	0340	0461	34920	2768			14749														
		STD	0400	0437	3492	2770	0004419	0270	14749														
		OBS	0400	0437	34920	2770			14749														
		STD	0500	0415	3492	2773	0004273	0313	14756														
		OBS	0500	0415	34920	2773			14756														
		STD	0600	0405	3492	2774	0004258	0356	14768														
		STD	0700	0399	3492	2775	0004290	0399	14783														
		OBS	0700	0399	34920	2775			14783														
		OBS	0740	0398	34922	2775			14789														
		OBS	0758	0419	34962	2776			14801														
		STD	0800	0409	3495	2776	0004278	0441	14804														
		OBS	0800	0409	34950	2776			14804														
		OBS	0851	0388	34920	2776			14803														
		STD	0900	0380	3492	2776	0004249	0484	14808														
		OBS	0900	0380	34920	2776			14808														
		STD	1000	0378	3492	2777	0004296	0527	14824														
		OBS	1000	0378	34922	2777			14824														
		STD	1100	0375	3493	2778	0004278	0570	14839														
		OBS	1100	0375	34932	2778			14839														
		STD	1200	0370	3493	2778	0004297	0613	14854														
		OBS	1200	0370	34932	2778			14854														
		STD	1300	0367	3494	2779	0004301	0656	14870														
		OBS	1300	0367	34938	2779			14870														
		STD	1400	0364	3494	2780	0004339	0699	14885														
		OBS	1400	0364	34939	2780			14885														
		STD	1500	0361	3494	2780	0004358	0742	14901														
		OBS	1500	0361	34943	2780			14901														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	OAT		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
318039	EV		44330N	048540W		149	48	06	26	098	1968	003	10315	0578	1	17	1	2		X6	0	3	0276
						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																		
DT	SD	17	513	120	056	056	7	19															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
098		STD	0000	0411	3259	2588	0021282	0000	14641														
		OBS	0000	0411	32589	2588			14641														
		OBS	0005	0050	32500	2609			14482														
		STD	0010	-0100	3280	2639	0016421	0018	14418														
		OBS	0010	-0100	32800	2639			14418														
		STD	0020	-0120	3314	2667	0013745	0033	14415														
		OBS	0020	-0120	33140	2667			14415														
		OBS	0025	-0113	33201	2672			14420														
		STD	0030	-0071	3330	2679	0012676	0047	14441														
		OBS	0030	-0071	33300	2679			14441														
		OBS	0040	-0055	33320	2680			14451														
		STD	0050	-0054	3332	2680	0012561	0072	14453														
		OBS	0050	-0054	33322	2680			14453														
		STD	0075	-0008	3351	2693	0011324	0102	14481														
		OBS	0075	-0008	33510	2693			14481														
		STD	0100	0060	3375	2709	0009839	0128	14519														
		OBS	0100	0060	33750	2709			14519														
		STD	0125	0120	3405	2729	0007956	0150	14555														
		OBS	0125	0120	34048	2729			14555														
		STD	0150	0132	3413	2735	0007398	0170	14565														
		OBS	0150	0132	34133	2735			14565														
		STD	0200	0177	3432	2747	0006308	0204	14596														
		OBS	0200	0177	34322	2747			14596														
		STD	0250	0258	3447	2752	0005884	0234	14642														
	OBS	0250	0258	34469	2752			14642															
	STD	0300	0300	3462	2760	0005164	0262	14670															
	OBS	0300	0300	34620	2760			14670															
	OBS	0343	0368	34740	2763			14708															
	STD	0400	0395	3482	2767	0004701	0311	14730															
	OBS	0400	0395	34821	2767			14730															
	STD	0500	0411	3484	2767	0004805	0359	14754															
	OBS	0500	0411	34843	2767			14754															
	OBS	0550	0420	34870	2768			14766															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO YR	MARSOEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	OAT		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318039	EV		44315N	049080W	149	49	06	26	109	1968	003	10316	0073	1	17	2	2		X6	0	3	0277
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DIR.	WET BULB	DRY BULB	WET BULB															
DT	SD	17	520	100	061	061	6										09					
MESSAGE TIME HR 1/10	CARD 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					
109		STD	0000	0539	3261	2576	0022433	0000	14694													
		OBS	0000	0539	32609	2576			14694													
001		OBS	0005	0535	32670	2581			14694													
		STD	0010	0490	3261	2582	0021898	0022	14676													
001		OBS	0010	0490	32612	2582			14676													
		STD	0020	0229	3274	2616	0018606	0042	14568													
001		OBS	0020	0229	32740	2616			14568													
		OBS	0025	0050	32900	2641			14491													
001		STD	0030	-0008	3299	2651	0015313	0059	14466													
		OBS	0030	-0008	32989	2651			14466													
001		OBS	0045	-0055	33131	2664			14449													
		STD	0050	-0056	3315	2666	0013889	0088	14450													
001		OBS	0050	-0056	33148	2666			14450													
		OBS	0054	-0058	33151	2666			14449													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SHIP INDEX	MARSSEN SQUARE		STATION TIME IGMT			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																															
318039	EV		43100N	050200W		150	30	06	26	213	1968	003	10317	0093	1	26	5	2		X4	0	3	0278																														
<table><tr><th colspan="3">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS. CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th colspan="3">SPEED OF FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td>DT</td><td>SD</td><td>28</td><td>512</td><td>100</td><td>110</td><td>106</td><td>2</td><td>10</td><td></td><td></td></tr></table>																								WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB	DT	SD	28	512	100	110	106	2	10		
WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																											
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB																																														
DT	SD	28	512	100	110	106	2	10																																													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	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 ₃ -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
213	001	STD	0000	0826	3240	2561	0023874	0000	14812								
		OBS	0000	0826	32900	2561			14812								
		STD	0010	0846	3303	2569	0023166	0023	14823								
		OBS	0010	0846	33035	2569			14823								
		OBS	0018	0842	33040	2570			14823								
		STD	0020	0822	3302	2571	0022955	0046	14815								
		OBS	0020	0822	33020	2571			14815								
		OBS	0025	0658	33000	2592			14752								
		STD	0030	0450	3290	2609	0019341	0067	14666								
		OBS	0030	0450	32900	2609			14666								
		OBS	0035	0330	32500	2649			14621								
		OBS	0048	0537	33670	2660			14715								
		STD	0050	0517	3365	2661	0014436	0101	14707								
		OBS	0050	0517	33650	2661			14707								
		OBS	0068	0510	33665	2663			14708								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	SHIP INDEX	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																														
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT																															
318039	EV		4300 N	05020 W		150	30	06	26	224	1968	003	10318	0108	1	21	8	4		X4	0	3	0279																														
<table><tr><th colspan="3">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th colspan="3">SPEED OF FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td>DT</td><td>SD</td><td>29</td><td>511</td><td>102</td><td>106</td><td>100</td><td>5</td><td>12</td><td></td><td></td></tr></table>																								WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB	DT	SD	29	511	102	106	100	5	12		
WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																											
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB																																														
DT	SD	29	511	102	106	100	5	12																																													

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	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 ₃ -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
224	001	STD	0000	0836	3283	2554	0024536	0000	14815								
		OBS	0000	0836	32830	2554			14815								
		STD	0010	0650	3258	2560	0023950	0024	14741								
		OBS	0010	0650	32580	2560			14741								
		STD	0020	0473	3337	2644	0016039	0044	14680								
		OBS	0020	0473	33370	2644			14680								
		OBS	0025	0459	33450	2652			14677								
		STD	0030	0489	3367	2666	0013960	0059	14693								
		OBS	0030	0489	33670	2666			14693								
		OBS	0040	0520	33740	2668			14708								
		STD	0050	0632	3393	2669	0013699	0086	14758								
		OBS	0050	0632	33930	2669			14758								
		OBS	0060	0650	33980	2670			14767								
		OBS	0065	0610	33950	2673			14752								
		OBS	0070	0656	34120	2681			14773								
		STD	0075	0684	3425	2687	0012007	0119	14787								
		OBS	0075	0684	34250	2687			14787								
		OBS	0082	0717	34360	2691			14802								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039		EV	4250 N	05020 W		150	20	06	26	235	1968	003	10319	0768	1	21	5	4		04	0	3	0280
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	28	S12	105	111	106	1	34	
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MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C
		STD	0000	0856	3271	2542											
235		OBS	0000	0856	32715	2542	0025679	0000	14821								
		OBS	0005	0519	33040	2612			14821								
		STD	0010	0530	3311	2617	0018593	0022	14693								
001		OBS	0010	0530	33110	2617			14699								
		OBS	0012	0542	33122	2616			14699								
		STD	0020	0459	3317	2630	0017369	0040	14704								
		OBS	0020	0459	33173	2630			14672								
		OBS	0025	0460	33330	2642			14672								
		STD	0030	0500	3354	2654	0015055	0056	14675								
		OBS	0030	0500	33540	2654			14696								
		OBS	0034	0538	33590	2654			14696								
		OBS	0045	0544	33620	2655			14713								
		STD	0050	0759	3431	2681	0012529	0083	14717								
		OBS	0050	0759	34310	2681			14813								
		STD	0075	0592	3404	2683	0012416	0115	14813								
		OBS	0075	0592	34040	2683			14747								
		OBS	0080	0578	34160	2694			14747								
		STD	0100	0800	3470	2706	0010292	0143	14744								
		OBS	0100	0800	34700	2706			14842								
		OBS	0115	0967	35040	2706			14842								
		STD	0125	0918	3502	2712	0009755	0168	14911								
		OBS	0125	0918	35020	2712			14894								
		OBS	0144	0865	34935	2714			14894								
		STD	0150	0783	3480	2716	0009402	0192	14877								
		OBS	0150	0783	34800	2716			14845								
		OBS	0165	0669	34680	2723			14845								
		OBS	0185	0667	34718	2726			14801								
		STD	0200	0652	3475	2731	0008063	0236	14804								
		OBS	0200	0652	34749	2731			14801								
		OBS	0215	0667	34769	2730			14810								
		STD	0250	0618	3476	2736	0007606	0275	14796								
		OBS	0250	0618	34760	2736			14796								
		OBS	0255	0594	34730	2737			14787								
		OBS	0270	0659	34885	2741			14817								
		STD	0300	0599	3489	2749	0006468	0310	14798								
		OBS	0300	0599	34890	2749			14798								
		OBS	0327	0525	34931	2761			14773								
		OBS	0367	0521	34940	2762			14778								
		STD	0400	0502	3495	2765	0004965	0367	14776								
		OBS	0400	0502	34948	2765			14776								
		OBS	0449	0492	34945	2766			14776								
		STD	0500	0468	3495	2769	0004659	0415	14780								
		OBS	0500	0468	34950	2769			14779								
		STD	0600	0453	3494	2770	0004676	0462	14779								
		OBS	0600	0453	34939	2770			14789								
		OBS	0660	0453	34940	2770			14789								
		STD	0700	0445	3494	2772	0004644	0509	14799								
		OBS	0700	0445	34945	2772			14802								
		OBS	0768	0439	34963	2774			14802								
									14811								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSEN 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		AMT
318039		EV	4240 N	05020 W		150	20	06	27	009	1968	003	10320	2103	1	21	5	3		0	3		0281

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			
DT	SD	28	S10	119	111	106	6	39	

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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	0858	3472	2542	0025634	0000	14822								
	009	OBS	0000	0858	32725	2542			14822								
		STD	0010	0318	3240	2582	0021876	0023	14600								
		OBS	0010	0318	32400	2582			14600								
		STD	0020	0680	3296	2586	0021499	0045	14759								
	003	OBS	0020	0680	32960	2586			14759								
		OBS	0025	0905	33550	2600			14854								
		STD	0030	0980	3430	2646	0015865	0064	14893								
		OBS	0030	0980	34300	2646			14893								
		STD	0050	1266	3540	2679	0012806	0092	15010								
		OBS	0050	1266	35400	2679			15010								
		OBS	0059	1290	35600	2690			15023								
		STD	0075	1233	3546	2690	0011811	0123	15004								
		OBS	0075	1233	35460	2690			15004								
		STD	0100	1077	3511	2692	0011649	0152	14949								
		OBS	0100	1077	35110	2692			14949								
		OBS	0117	1050	35120	2698			14943								
		STD	0125	0870	3473	2697	0011156	0181	14873								
		OBS	0125	0870	34730	2697			14873								
		OBS	0131	0843	34860	2712			14865								
		STD	0150	0679	3460	2715	0009449	0207	14802								
		OBS	0150	0679	34600	2715			14802								
		OBS	0163	0712	34660	2716			14817								
		STD	0200	0585	3446	2717	0009356	0254	14770								
		OBS	0200	0585	34460	2717			14770								
		OBS	0204	0563	34430	2717			14762								
		OBS	0210	0579	34480	2719			14770								
		OBS	0235	0426	34380	2729			14710								
		STD	0250	0559	3463	2734	0007805	0297	14770								
		OBS	0250	0559	34635	2734			14770								
		OBS	0267	0559	34660	2736			14774								
		OBS	0282	0589	34763	2740			14790								
		STD	0300	0583	3479	2743	0007014	0334	14790								
		OBS	0300	0583	34789	2743			14790								
		OBS	0370	0510	34897	2760			14774								
		STD	0400	0515	3492	2762	0005318	0395	14781								
		OBS	0400	0515	34922	2762			14781								
		OBS	0416	0522	34950	2763			14787								
		OBS	0453	0509	34956	2765			14788								
		STD	0500	0505	3498	2768	0004873	0446	14794								
		OBS	0500	0505	34982	2768			14794								
		STD	0600	0468	3496	2770	0004671	0494	14795								
		OBS	0600	0468	34964	2770			14795								
		STD	0700	0451	3497	2773	0004529	0540	14805								
		OBS	0700	0451	34970	2773			14805								
		STD	0800	0436	3498	2775	0004402	0585	14815								
		OBS	0800	0436	34977	2775			14815								
		STD	0900	0431	3500	2777	0004288	0628	14830								
		OBS	0900	0431	34998	2777			14830								
		OBS	0943	0432	34998	2777			14838								
		STD	1000	0409	3497	2777	0004318	0671	14837								
		OBS	1000	0409	34970	2777			14837								
		OBS	1007	0396	34945	2777			14833								
		STD	1100	0395	3495	2777	0004411	0715	14848								
		OBS	1100	0395	34947	2777			14848								
		STD	1200	0390	3495	2778	0004425	0759	14863								
		OBS	1200	0390	34948	2778			14863								
		STD	1300	0392	3497	2779	0004388	0803	14881								
		OBS	1300	0392	34969	2779			14881								
		STD	1400	0392	3496	2778	0004547	0848	14897								
		OBS	1400	0392	34960	2778			14897								
		OBS	1435	0385	34961	2779			14900								

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCH	MARS DEN SQUARE		STATION TIME IGMT			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	AMT	

318039	EV	4230 N	05020 W	150	20	06	27	035	1968	003	10321	2597	1	21	4	3		X2	7	8		0282
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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			
			28	514	125	117	111	6	13

MESSNGR TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC
		STD	0000	1102	3321	2540	0025851	0000	14918								
	035	OBS	0000	1102	33212	2540			14918								
		STD	0010	1102	3321	2540	0025864	0025	14919								
	035	OBS	0010	1102	33213	2540			14919								
		STD	0020	0991	3322	2560	0024031	0050	14881								
	035	OBS	0025		33240												
		STD	0030	0888	3330	2583	0021834	0073	14846								
		STD	0050	0706	3355	2629	0017478	0113	14782								
	035	OBS	0050	0706	33549	2629			14782								
	035	OBS	0074	0528	33827	2674			14718								
		STD	0075	0531	3385	2675	0013119	0151	14720								
	035	OBS	0099	0592	34351	2707			14755								
		STD	0100	0591	3435	2707	0010101	0180	14755								
		STD	0125	0563	3438	2713	0009557	0204	14748								
		STD	0150	0542	3442	2719	0009068	0228	14744								
	035	OBS	0199	0525	34513	2728			14747								
		STD	0200	0527	3452	2728	0008239	0271	14747								
		STD	0250	0580	3466	2733	0007871	0311	14779								
	035	OBS	0298	0580	34766	2741			14789								
		STD	0300	0576	3477	2742	0007072	0349	14787								
	035	OBS	0398	0419	34885	2770			14741								
		STD	0400	0420	3489	2770	0004483	0406	14741								
		STD	0500	0459	3493	2769	0004728	0452	14775								
	035	OBS	0598	0477	34956	2769			14799								
		STD	0600	0477	3496	2769	0004835	0500	14799								
		STD	0700	0465	3497	2771	0004695	0548	14811								
	035	OBS	0797	0453	34978	2773			14822								
		STD	0800	0453	3498	2773	0004593	0594	14822								
		STD	0900	0442	3498	2774	0004569	0640	14835								
	035	OBS	0998	0429	34978	2776			14846								
		STD	1000	0429													
		STD	1100	0413													
		STD	1200	0394													
	035	OBS	1246	0385													

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	CHART NO.	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY		HR.1/10	DIP			HGT	PER	SEA	TYPE		AMT		
CRUISE NO.	STATION NUMBER					10"	1"	MO	DAY		HR.1/10	DIP			HGT	PER	SEA	TYPE		AMT		
318039	EV	4210 N	05020 W	150	20	06	27	055	1968	003	10322	3475	1	25	2	2		X2	0	3		0283
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
DT	SD	28	S13		135	122				117	7	32										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ QTN. 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 ₃ -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	SIC					
		STD	0000	1184	3333	2535	0026387	0000	14948													
	055	OBS	0000	1184	33332	2535			14948													
		OBS	0001	1213	34140	2592			14969													
	003	OBS	0006	1001	34500	2658			14899													
		STD	0010	1070	3480	2669	0013609	0020	14928													
		OBS	0010	1070	34800	2669			14928													
		STD	0020	1230	3530	2678	0012788	0033	14992													
		OBS	0020	1230	35300	2678			14992													
		OBS	0025	1321	35540	2679			15027													
		STD	0030	1321	3554	2679	0012783	0046	15027													
		OBS	0030	1321	35540	2679			15027													
		STD	0050	1314	3556	2682	0012521	0071	15029													
		OBS	0050	1314	35565	2682			15029													
		OBS	0065	1320	35580	2682			15033													
		STD	0075	1305	3554	2682	0012562	0102	15029													
		OBS	0075	1305	35545	2682			15029													
		STD	0100	1229	3544	2689	0011958	0133	15007													
		OBS	0100	1229	35440	2689			15007													
		STD	0125	1215	3544	2692	0011776	0163	15006													
		OBS	0125	1215	35438	2692			15006													
		STD	0150	1202	3544	2695	0011584	0192	15006													
		OBS	0150	1202	35440	2695			15006													
		STD	0200	1106	3528	2700	0011145	0249	14978													
		OBS	0200	1106	35280	2700			14978													
		STD	0250	0885	3499	2715	0009713	0301	14902													
		OBS	0250	0885	34989	2715			14902													
		OBS	0276	0781	34950	2728			14867													
		STD	0300	0812	3507	2733	0008093	0345	14884													
		OBS	0300	0812	35070	2733			14884													
		OBS	0376	0659	34948	2745			14835													
		STD	0400	0552	3488	2754	0006088	0416	14796													
		OBS	0400	0552	34880	2754			14796													
		STD	0500	0500	3496	2766	0004974	0471	14792													
		OBS	0500	0500	34960	2766			14792													
		OBS	0564	0469	34955	2770			14790													
		STD	0600	0469	3496	2770	0004708	0520	14796													
		OBS	0600	0469	34960	2770			14796													
		OBS	0665	0442	3593P	2850P																
		STD	0700	0441	3493	2771	0004709	0567	14800													
		OBS	0700	0441	34929	2771			14800													
		STD	0800	0435	3492	2771	0004773	0614	14814													
		OBS	0800	0435	34925	2771			14814													
		STD	0900	0419	3493	2773	0004644	0661	14824													
		OBS	0900	0419	34930	2773			14824													
		STD	1000	0409	3492	2774	0004664	0708	14837													
		OBS	1000	0409	34923	2774			14837													
		STD	1100	0403	3492	2774	0004688	0755	14851													
		OBS	1100	0403	34922	2774			14851													
		STD	1200	0400	3493	2775	0004683	0802	14867													
		OBS	1200	0400	34930	2775			14867													
		STD	1300	0400	3493	2775	0004774	0849	14883													
		OBS	1300	0400	34930	2775			14883													
		STD	1400	0401	3495	2777	0004744	0896	14901													
		OBS	1400	0401	34949	2777			14901													
		STD	1500	0400	3495	2777	0004796	0944	14917													
		OBS	1500	0400	34952	2777			14917													

REFERENCE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DATE DD-MO-YY	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318039	EV	4150 N	05023 W	150	10	06 27 080	1968	003	10323	4069	1	21	4	3		X2	0	3	0284
				WATER		WIND		BARO- METER			AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE									
				DT	SD	28	510	142	156	150	7	36							

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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C
		STD	0000	1390	3400	2545	0025362	0000	15026								
	080	OBS	0000	1390	33998	2545			15026								
		OBS	0004	1405	34105	2550			15033								
		STD	0010	1250	3420	2589	0021217	0023	14983								
	003	OBS	0010	1250	34200	2589			14983								
		OBS	0011	1169	34330	2615			14957								
		STD	0020	1284	3512	2654	0015123	0041	15008								
		OBS	0020	1284	35120	2654			15008								
		OBS	0022	1328	35410	2667			15027								
		OBS	0025	1325	35410	2668			15026								
		STD	0030	1325	3541	2668	0013814	0055	15027								
		OBS	0030	1325	35410	2668			15027								
		OBS	0041	1312	35415	2671			15025								
		STD	0050	1390	3566	2674	0013323	0083	15055								
		OBS	0050	1390	35660	2674			15055								
		OBS	0055	1405	35700	2673			15061								
		OBS	0063	1319	35475	2674			15031								
		STD	0075	1312	3551	2678	0012969	0115	15031								
		OBS	0075	1312	35508	2678			15031								
		STD	0100	1325	3563	2685	0012399	0147	15041								
		OBS	0100	1325	35630	2685			15041								
		STD	0125	1266	3551	2687	0012212	0178	15024								
		OBS	0125	1266	35509	2687			15024								
		STD	0150	1235	3546	2689	0012081	0208	15017								
		OBS	0150	1235	35456	2689			15017								
		STD	0200	1219	3547	2694	0011782	0268	15020								
		OBS	0200	1219	35473	2694			15020								
		OBS	0230	1219	35492	2695			15025								
		STD	0250	1196	3544	2696	0011711	0327	15020								
		OBS	0250	1196	35442	2696			15020								
		STD	0300	0967	3508	2709	0010464	0382	14942								
		OBS	0300	0967	35080	2709			14942								
		OBS	0332	0941	35130	2717			14938								
		STD	0400	0748	3489	2728	0008660	0478	14873								
		OBS	0400	0748	34890	2728			14873								
		OBS	0446	0679	34923	2741			14855								
		OBS	0465	0682	34985	2745			14860								
		STD	0500	0615	3496	2752	0006441	0553	14839								
		OBS	0500	0615	34960	2752			14839								
		OBS	0561	0511	34878	2759			14805								
		STD	0600	0515	3493	2762	0005496	0613	14814								
		OBS	0600	0515	34930	2762			14814								
		STD	0700	0496	3497	2768	0005085	0666	14824								
		OBS	0700	0496	34970	2768			14824								
		OBS	0770	0456	34946	2770			14818								
		STD	0800	0463	3497	2772	0004755	0715	14827								
		OBS	0800	0463	34973	2772			14827								
		STD	0900	0460	3499	2774	0004688	0762	14842								
		STD	1000	0451	3500	2775	0004640	0809	14855								
		OBS	1000	0451	34998	2775			14855								
		STD	1100	0435	3499	2776	0004604	0855	14865								
		OBS	1100	0435	34989	2776			14865								
		STD	1200	0417	3496	2776	0004688	0902	14874								
		OBS	1200	0417	3492P	2773P											
		STD	1300	0399	3495	2777	0004621	0948	14883								
		OBS	1300	0399	34950	2777			14883								
		STD	1400	0392	3496	2778	0004547	0994	14897								
		OBS	1400	0392	34960	2778			14897								
		STD	1500	0389	3496	2779	0004590	1040	14913								
		OBS	1500	0389	34960	2779			14913								

TABLE II. Observed and interpolated oceanographic data for stations taken by USCGC EAST-WIND in the Labrador Sea, 24-26 October 1968, prepared from NODC listing No. 31-1353.

REFERENCE CTRY ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	1/2 SDEN 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		
					10"	1"	M	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
					10"	1"	M	DAY		HR. 1/10											
311353	EW	53469N	055410W		186	35	10	24	054	1968		040	0163	01	02		2	X4	0	0040	
					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	WET BULB										
								02	S10	118	044	044	4	06							
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	OTIS				
		STD	0000	0351	3074	2447	0034698	0000	14590												
	056	OBS	0000	0351	30740	2447			14590												
		STD	0010	0309	3139	2502	0029440	0032	14583												
		STD	0020	0267	3184	2542	0025707	0060	14572												
	056	OBS	0025	0246	31987	2555			14566												
		STD	0030	0232	3198	2556	0024373	0085	14560												
		STD	0050	0145	3196	2560	0023933	0133	14525												
	056	OBS	0051	0140	31962	2560			14523												
		STD	0075	-0030	3274	2632	0017096	0184	14460												
	056	OBS	0076	-0034	32757	2633			14459												
		STD	0100	-0046	3290	2646	0015774	0225	14459												
	056	OBS	0100	-0046	32903	2646			14459												
		STD	0125	-0063	3298	2653	0015106	0264	14456												
	056	OBS	T0143	-0079	32997	2655			14452												

REFERENCE CTRY ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	1/2 SDEN 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		
					10"	1"	M	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
					10"	1"	M	DAY		HR. 1/10											
311353	EW	5409 N	05509 W		186	45	10	24	081	1968		041	0163	01	02		2	X4	0	0041	
					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	WET BULB										
								02	S09	133	044	044	2	06							
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	OTIS				
		STD	0000	0316	3231	2575	0022504	0000	14597												
	083	OBS	0000	0316	32314	2575			14597												
		STD	0010	0318	3234	2577	0022332	0022	14599												
		STD	0020	0319	3236	2579	0022161	0045	14602												
	083	OBS	0025	0320	32376	2580			14603												
		STD	0030	0218	3251	2599	0020269	0066	14561												
		STD	0050	-0053	3292	2647	0015639	0102	14448												
	083	OBS	0051	-0061	32938	2649			14445												
		STD	0075	-0074	3312	2664	0014018	0139	14445												
	083	OBS	0076	-0075	33132	2665			14445												
		STD	0100	-0099	3329	2679	0012615	0172	14440												
	083	OBS	0101	-0100	33294	2679			14440												
		STD	0125	-0097	3344	2691	0011462	0202	14447												
	083	OBS	0145	-0075	33563	2700			14462												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	1/2 SDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
CRUISE NO.	ID.					10"	1"	M	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT				PER	SEA
311353	EW		5409 N	05509 W		186	45	10	24	081	1968	041	0163	01	02			2	X4	0		0041
						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	WET BULB										
									02	S09	133	044	044	2	06							
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	OTIS					
		STD	0000	0316	3231	2575	0022504	0000	14597													
	083	OBS	0000	0316	32314	2575			14597													
		STD	0010	0318	3234	2577	0022332	0022	14599													
		STD	0020	0319	3236	2579	0022161	0045	14602													
	083	OBS	0025	0320	32376	2580			14603													
		STD	0030	0218	3251	2599	0020269	0066	14561													
		STD	0050	-0053	3292	2647	0015639	0102	14448													
	083	OBS	0051	-0061	32938	2649			14445													
		STD	0075	-0074	3312	2664	0014018	0139	14445													
	083	OBS	0076	-0075	33132	2665			14445													
		STD	0100	-0099	3329	2679	0012615	0172	14440													
	083	OBS	0101	-0100	33294	2679			14440													
		STD	0125	-0097	3344	2691	0011462	0202	14447													
	083	OBS	0145	-0075	33563	2700			14462													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	M/R SQDEN 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		
311353	EW		5431 N	05430 W		186	44	10	24 109	1968		042	0201	02	04			2	X4	4	4		0042	
						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												
								04	S10	147	065	065	3	07										
MESSAGE 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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	0300	3189	2543	0025619		0000	14584														
	111	OBS	0000	0300	31885	2543				14584														
		STD	0010	0293	3193	2547	0025244		0025	14583														
		STD	0020	0285	3197	2550	0024878		0050	14582														
	111	OBS	0024	0282	31985	2552				14581														
		STD	0030	0232	3225	2577	0022341		0074	14564														
	111	OBS	0049	0102	32819	2632				14517														
		STD	0050	0097	3282	2632	0017127		0114	14515														
	111	OBS	0073	-0005	32957	2648				14474														
		STD	0075	-0017	3297	2650	0015395		0154	14469														
	111	OBS	0097	-0100	33115	2665				14436														
		STD	0100	-0088	3313	2666	0013878		0191	14443														
		STD	0125	-0013	3329	2675	0012956		0224	14484														
	111	OBS	0146	0016	33398	2683				14502														
		STD	0150	0013	3342	2685	0012087		0256	14502														
	111	OBS	T0185	-0014	33570	2698				14497														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	M/R SQDEN 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"	M	DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
311353	EW		54525N	053475W		186	43	10	24 141	1968		043	0385	04					X4	0		0043	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									04	S08	148	056	050	5	09								
MESSAGE 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 - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH					
		STD	0000	0267	3202	2556		0024324		0000	14571												
145		OBS	0000	0267	32022	2556					14571												
		STD	0010	0286	3267	2606		0019570		0022	14590												
		STD	0020	0304	3314	2642		0016170		0040	14606												
145		OBS	0026	0315	33327	2656					14614												
		STD	0030	0322	3334	2656		0014816		0055	14618												
		STD	0050	0354	3341	2659		0014593		0085	14636												
145		OBS	0051	0356	33417	2659					14637												
		STD	0075	0257	3348	2673		0013240		0120	14599												
145		OBS	0077	0246	33499	2676					14595												
		STD	0100	0096	3377	2708		0009901		0148	14536												
145		OBS	0101	0091	33779	2709					14534												
		STD	0125	0091	3391	2720		0008806		0172	14540												
		STD	0150	0090	3406	2732		0007668		0192	14546												
145		OBS	0153	0090	34078	2733					14546												
		STD	0200	0211	3437	2748		0006206		0227	14612												
145		OBS	T0204	0220	34395	2749					14617												
		STD	0250	0311	3464	2761		0005077		0255	14667												
		STD	0300	0376	3481	2768		0004485		0279	14705												
145		OBS	0304	0380	34820	2769					14708												
		STD	0400	0400	3489	2772		0004234		0323	14733												
145		OBS	T0400	0400	34890	2772					14733												

REFERENCE	SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDIC	47 25 DEN		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 5' MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
					SQ	1'	M/D	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311353	EW	5517 N	05304 W		186	53	10	24	176	1968		044	3063	26	02			3	X1	2	4		0044
					WATER			WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB												
							03	S10	175	056	056	8	16										

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -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
		STD	0000	0576	3406	2686	0011962	0000	14729								
182		OBS	0000	0576	34062	2686			14729								
		STD	0010	0578	3406	2686	0012015	0012	14731								
		STD	0020	0579	3406	2686	0012068	0024	14733								
182		OBS	0020	0579	34056	2686			14733								
		STD	0030	0576	3407	2687	0011930	0036	14734								
182		OBS	0042	0572	34090	2689			14734								
		STD	0050	0504	3414	2701	0010618	0059	14709								
182		OBS	0063	0415	34257	2720			14675								
		STD	0075	0358	3445	2741	0006814	0080	14656								
182		OBS	0084	0329	34559	2753			14646								
		STD	0100	0338	3464	2758	0005216	0095	14654								
		STD	0125	0351	3475	2766	0004533	0108	14665								
182		OBS	0128	0353	34759	2766			14667								
		STD	0150	0367	3481	2769	0004260	0119	14677								
182		OBS	0172	0377	34846	2771			14685								
		STD	0200	0378	3486	2772	0004037	0139	14690								
		STD	0250	0379	3487	2773	0004019	0159	14699								
182		OBS	0257	0379	34876	2773			14700								
		STD	0300	0372	3488	2774	0003950	0179	14705								
182		OBS	0345	0369	34877	2774			14711								
		STD	0400	0376	3489	2774	0004015	0219	14723								
182		OBS	T0432	0378	34890	2774			14729								
		STD	0500	0378	3490	2775	0004037	0259	14740								
182		OBS	T0521	0377	34899	2775			14744								
		STD	0600	0371	3489	2775	0004103	0300	14754								
		STD	0700	0366	3488	2775	0004194	0342	14768								
182		OBS	0700	0366	34882	2775			14768								
		STD	0800	0367	3489	2775	0004227	0384	14785								
182		OBS	T0883	0367	34901	2776			14800								
		STD	0900	0367	3490	2776	0004228	0426	14802								
		STD	1000	0366	3491	2777	0004264	0468	14819								
		STD	1100	0365	3491	2777	0004299	0511	14835								
		STD	1200	0364	3492	2778	0004334	0554	14851								
		STD	1300	0363	3492	2778	0004367	0598	14868								
182		OBS	T1358	0362	34925	2779			14877								
		STD	1400	0359	3493	2779	0004375	0642	14883								
		STD	1500	0352	3493	2780	0004359	0685	14897								
		STD	1750	0334	3493	2782	0004290	0793	14932								
		STD	2000	0315	3493	2784	0004196	0900	14966								
191		OBS	T2034	0312	34935	2784			14971								
		STD	2500	0273	3493	2788	0003968	1104	15034								
191		OBS	T2569	0267	34925	2788			15043								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NOCC STATION NUMBER	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CRUISE NO.	STATION NUMBER					10"	1"		DIR.	HGT			PER	SEA	TYPE	AMT				
311353	EW	5548 N	05157 W	186	51 10 25 001	1968		045	3475	33	03				2	X0		0		0045
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
			03	S14	169	083	072	8	18											
MESSENGER 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 - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S C			
		STD	0000	0682	3433	2694	0011280	0000	14775											
006		OBS	0000	0682	34328	2694			14775											
		STD	0010	0682	3433	2694	0011278	0011	14776											
		STD	0020	0683	3433	2694	0011285	0023	14778											
006		OBS	0023	0683	34334	2694			14779											
		STD	0030	0673	3435	2697	0011045	0034	14776											
006		OBS	0044	0653	34423	2705			14772											
		STD	0050	0568	3449	2721	0008730	0054	14739											
006		OBS	0068	0399	34639	2752			14675											
		STD	0075	0387	3468	2757	0005366	0071	14671											
006		OBS	0090	0369	34747	2764			14667											
		STD	0100	0370	3477	2766	0004545	0084	14669											
		STD	0125	0371	3481	2769	0004277	0095	14674											
006		OBS	0138	0372	34822	2770			14677											
		STD	0150	0374	3483	2770	0004179	0105	14680											
006		OBS	T0183	0376	34853	2772			14687											
		STD	0200	0373	3485	2772	0004034	0126	14688											
		STD	0250	0366	3486	2773	0003971	0146	14694											
006		OBS	0277	0364	34861	2773			14697											
		STD	0300	0364	3487	2774	0003913	0165	14701											
006		OBS	0370	0362	34878	2775			14712											
		STD	0400	0360	3488	2775	0003899	0204	14716											
006		OBS	T0465	0356	34879	2776			14725											
		STD	0500	0355	3491	2778	0003694	0242	14731											
006		OBS	T0559	0353	34942	2781			14740											
		STD	0600	0351	3492	2779	0003662	0279	14746											
		STD	0700	0348	3488	2777	0004011	0318	14761											
006		OBS	0754	0347	34864	2775			14769											
		STD	0800	0347	3487	2775	0004197	0359	14777											
		STD	0900	0348	3487	2776	0004261	0401	14794											
006		OBS	T0936	0348	34869	2776			14800											
		STD	1000	0350	3488	2776	0004273	0444	14811											
		STD	1100	0352	3489	2777	0004307	0486	14829											
		STD	1200	0354	3490	2778	0004341	0530	14847											
		STD	1300	0356	3490	2777	0004451	0574	14865											
		STD	1400	0359	3491	2778	0004487	0618	14883											
006		OBS	T1460	0360	34916	2778			14894											
		STD	1500	0360	3492	2779	0004513	0663	14900											
		STD	1750	0357	3493	2780	0004601	0777	14942											
006		OBS	T1928	0350	34937	2781			14969											
		STD	2000	0345	3494	2782	0004555	0892	14979											
016		OBS	T2432	0313	34941	2785			15039											
		STD	2500	0290	3494	2787	0004136	1109	15041											
016		OBS	2587	0264	34937	2789			15045											
		STD	3000	0194	3492	2793	0003168	1292	15086											
016		OBS	T3254	0194	34902	2792			15130											

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPT INCH	WAVE SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10°	1°	M	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311353		EW	56235N	050550W		186	60	10	25	068	1968	046	3658	36					X1		7		0046
						WAVE		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								
								03	520	166	083	072	7	19									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ OYN, M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C
		STD	0000	0690	3434	2693	0011287	0000	14778								
073		OBS	0000	0690	34341	2693			14778								
		STD	0010	0681	3437	2697	0010969	0011	14776								
		STD	0020	0674	3440	2700	0010670	0022	14776								
073		OBS	0026	0670	34422	2703			14775								
		STD	0030	0668	3443	2703	0010388	0032	14775								
		STD	0050	0660	3449	2709	0009863	0053	14776								
073		OBS	0052	0659	34499	2710			14776								
		STD	0075	0406	3465	2752	0005781	0072	14679								
073		OBS	0078	0388	34659	2755			14672								
		STD	0100	0378	3471	2760	0005074	0086	14672								
073		OBS	0103	0377	34718	2761			14672								
		STD	0125	0387	3478	2765	0004656	0098	14681								
		STD	0150	0397	3482	2767	0004490	0109	14690								
073		OBS	0156	0400	34828	2767			14692								
		STD	0200	0375	3483	2770	0004234	0131	14689								
073		OBS	0209	0371	34831	2770			14689								
		STD	0250	0368	3485	2772	0004059	0152	14694								
		STD	0300	0364	3486	2773	0003988	0172	14701								
073		OBS	0314	0363	34863	2774			14703								
		STD	0400	0353	3486	2775	0003939	0212	14713								
073		OBS	0420	0352	34863	2775			14716								
		STD	0500	0351	3486	2775	0003990	0251	14728								
073		OBS	T0526	0350	34864	2775			14732								
		STD	0600	0349	3487	2775	0004039	0292	14745								
073		OBS	T0632	0349	34868	2775			14750								
		STD	0700	0348	3487	2776	0004086	0332	14761								
		STD	0800	0347	3487	2776	0004153	0373	14777								
073		OBS	0847	0346	34872	2776			14784								
		STD	0900	0347	3487	2776	0004223	0415	14794								
		STD	1000	0348	3487	2776	0004315	0458	14811								
073		OBS	T1061	0349	34872	2776			14821								
		STD	1100	0350	3488	2776	0004355	0501	14828								
		STD	1200	0351	3489	2777	0004380	0545	14846								
		STD	1300	0353	3490	2778	0004404	0589	14863								
		STD	1400	0354	3490	2778	0004503	0633	14881								
		STD	1500	0356	3491	2778	0004528	0679	14898								
073		OBS	T1600	0357	34919	2779			14916								
		STD	1750	0354	3493	2780	0004586	0792	14940								
		STD	2000	0348	3494	2781	0004618	0908	14980								
083		OBS	T2008	0348	34938	2781			14982								
		STD	2500	0313	3495	2785	0004414	1133	15051								
083		OBS	T2523	0311	34947	2785			15054								
		STD	3000	0277	3493	2787	0004293	1351	15122								
083		OBS	3040	0272	34932	2788			15127								
083		OBS	T3552	0173	34903	2794			15173								
083		OBS	T3629	0162													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INSTR	WIND SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE NO.	STATION NUMBER					10"	1"	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
COLOR CODE	TRANS. (m)					DIR.	SPEED OF FORCE	BARO- METER (mbs)	DRY BULB		WET BULB	VIS CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
311353	EW		5706 N	04951 W		185	79	10	25 139	1968		047	3658	35	34			2	X2	6 8		0047

REFERENCE	SHIP CODE	LATITUDE ° '"/10	LONGITUDE ° '"/10	DRIFT DIRECTION	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"		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311353	EW	5737 N	04848 W		185	78	10 25 205 1968		048	3475	34	03				3	X1	6 7	0048

WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS	
COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB						
		36	510	168	050	033	8	18					

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -S $\mu\text{g} - \text{at/l}$	pH	S CC
		STD	0000	0608	3447	2714	0009307	0000	14747								
210		OBS	0000	0608	34468	2714			14747								
		STD	0010	0607	3446	2714	0009346	0009	14748								
		STD	0020	0605	3446	2714	0009380	0019	14749								
210		OBS	0028	0602	34453	2714			14749								
		STD	0030	0601	3446	2715	0009321	0028	14749								
		STD	0050	0589	3454	2722	0008607	0046	14749								
210		OBS	0055	0586	34572	2725			14749								
		STD	0075	0416	3474	2758	0005207	0063	14684								
210		OBS	0082	0382	34784	2765			14672								
		STD	0100	0378	3482	2769	0004248	0075	14673								
210		OBS	0109	0376	34831	2770			14674								
		STD	0125	0372	3484	2771	0004061	0085	14675								
		STD	0150	0368	3484	2771	0004044	0096	14678								
210		OBS	0164	0366	3494P	2779P											
		STD	0200	0364	3485	2773	0003974	0116	14684								
210		OBS	T0219	0363	34857	2773			14687								
		STD	0250	0363	3486	2773	0003930	0135	14692								
		STD	0300	0362	3486	2774	0003940	0155	14700								
210		OBS	0328	0362	34867	2774			14705								
		STD	0400	0355	3486	2774	0003982	0195	14714								
210		OBS	0436	0352	34859	2774			14718								
		STD	0500	0349	3486	2775	0004004	0235	14728								
210		OBS	T0545	0348	34863	2775			14735								
		STD	0600	0347	3486	2775	0004066	0275	14743								
210		OBS	0652	0346	34856	2775			14752								
		STD	0700	0346	3486	2775	0004156	0316	14759								
		STD	0800	0345	3486	2775	0004211	0358	14776								
210		OBS	0869	0344	34860	2775			14787								
		STD	0900	0344	3486	2775	0004285	0400	14792								
		STD	1000	0344	3486	2775	0004387	0444	14809								
210		OBS	T1084	0344	34853	2775			14823								
		STD	1100	0344	3486	2775	0004478	0488	14826								
		STD	1200	0347	3487	2775	0004515	0533	14844								
		STD	1300	0350	3487	2776	0004559	0578	14862								
		STD	1400	0352	3488	2776	0004596	0624	14880								
		STD	1500	0355	3489	2777	0004635	0670	14898								
210		OBS	T1628	0358	34907	2778			14921								
		STD	1750	0355	3492	2779	0004647	0786	14941								
219		OBS	T1975	0347	34930	2781			14976								
		STD	2000	0346	3493	2781	0004646	0903	14979								
219		OBS	T2474	0311	34925	2784			15046								
		STD	2500	0310	3492	2783	0004565	1133	15050								
219		OBS	T2976	0257	34917	2788			15109								
		STD	3000	0253	3492	2788	0004056	1348	15112								
219		OBS	T3405	0165	34906	2794			15144								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	INDICATOR	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.					PARSONS SQUARE			MO	DAY HR./10			CRUISE NO.	STATION NUMBER	OBSERVATIONS			DIR.		HGT PER	SEA	TYPE	AMT					
						10'	1'								DRY BULB		WET BULB							VIS CODE	NO. OBS. DEPTHS	SPECIAL		
311353		EW	5810 N	04758 W		185	87	10	26	022	1968		049		3383	33	03			2	X0		0					0049
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
								03		S10	194	044	044	8	18													
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 $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH											
		STD	0000	0594	3459	2726	0008203		0000	14743																		
026		OBS	0000	0594	34593	2726				14743																		
		STD	0010	0597	3459	2725	0008298		0008	14746																		
		STD	0020	0599	3458	2724	0008381		0017	14748																		
026		OBS	0020	0599	34581	2724				14748																		
		STD	0030	0600	3459	2725	0008333		0025	14750																		
026		OBS	0042	0600	34592	2725				14752																		
		STD	0050	0600	3459	2725	0008340		0042	14754																		
026		OBS	0062	0599	34595	2726				14755																		
		STD	0075	0609	3459	2724	0008481		0063	14761																		
026		OBS	0083	0615	34593	2723				14765																		
		STD	0100	0508	3470	2745	0006527		0081	14726																		
		STD	0125	0405	3481	2765	0004619		0095	14689																		
026		OBS	0137	0379	34840	2770				14680																		
		STD	0150	0381	3485	2771	0004099		0106	14683																		
026		OBS	T0169	0384	34867	2772				14688																		
		STD	0200	0382	3488	2773	0003933		0126	14692																		
		STD	0250	0380	3489	2774	0003876		0146	14700																		
026		OBS	0258	0379	34896	2775				14701																		
		STD	0300	0376	3490	2775	0003841		0165	14707																		
026		OBS	0347	0374	34895	2775				14713																		
		STD	0400	0376	3489	2775	0003953		0204	14723																		
026		OBS	T0437	0377	34892	2775				14730																		
		STD	0500	0372	3489	2775	0004002		0244	14738																		
026		OBS	T0531	0369	34893	2775				14742																		
		STD	0600	0363	3488	2775	0004090		0284	14751																		
		STD	0700	0356	3487	2775	0004173		0326	14764																		
026		OBS	0718	0355	34869	2775				14767																		
		STD	0800	0354	3487	2775	0004231		0368	14780																		
		STD	0900	0352	3487	2775	0004297		0410	14796																		
026		OBS	0912	0352	34873	2776				14798																		
		STD	1000	0354	3489	2777	0004256		0453	14814																		
		STD	1100	0357	3491	2778	0004222		0495	14832																		
		STD	1200	0360	3492	2779	0004263		0538	14850																		
		STD	1300	0362	3494	2780	0004232		0580	14868																		
026		OBS	T1398	0365	34946	2780				14886																		
		STD	1400	0365	3495	2780	0004304		0623	14886																		
		STD	1500	0360	3494	2780	0004337		0666	14901																		
		STD	1750	0346	3494	2781	0004382		0775	14937																		
		STD	2000	0331	3494	2783	0004405		0885	14973																		
037		OBS	2070	0326	34934	2783				14983																		
		STD	2500	0297	3494	2786	0004235		1101	15044																		
037		OBS	2590	0288	34942	2787				15056																		
		STD	3000	0235	3492	2790	0003761		1301	15104																		
037		OBS	T3110	0213	34914	2791				15114																		
037		OBS	T3350	0152	34908	2796				15129																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ALOCN	M/PS 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		AMT
311353	EW	5828 N	04718 W	185	87	10	26	071	1968		050	2853	28					X1	6	7		0050	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB														
					16	S07	198	044	033	7	17												
MESSNGR TIME HR 1/10	CST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	ND ₃ -N $\mu g - ml/l$	SID ₄ -S $\mu g - ml/l$	pH	S C						
		STD	0000	0536	3434	2713	0009427	0000	14716														
076		OBS	0000	0536	34339	2713			14716														
		STD	0010	0544	3438	2715	0009223	0009	14722														
		STD	0020	0553	3443	2718	0008965	0018	14728														
076		OBS	0024	0557	34452	2719			14730														
		STD	0030	0567	3450	2722	0008617	0027	14736														
076		OBS	0049	0582	34628	2730			14747														
		STD	0050	0582	3463	2731	0007844	0044	14747														
076		OBS	0073	0569	34716	2739			14747														
		STD	0075	0554	3473	2742	0006803	0062	14741														
076		OBS	0097	0431	34831	2764			14695														
		STD	0100	0430	3484	2765	0004627	0076	14696														
		STD	0125	0422	3488	2769	0004270	0087	14697														
076		OBS	0146	0418	34899	2771			14699														
		STD	0150	0418	3490	2771	0004106	0098	14700														
076		OBS	0196	0420	34919	2772			14708														
		STD	0200	0420	3492	2772	0004042	0118	14709														
		STD	0250	0421	3490	2770	0004253	0139	14717														
076		OBS	0294	0422	34880	2769			14725														
		STD	0300	0420	3488	2769	0004412	0161	14725														
076		OBS	0393	0399	34921	2775			14732														
		STD	0400	0399	3492	2775	0003992	0203	14733														
076		OBS	T0492	0398	34924	2775			14748														
		STD	0500	0397	3492	2775	0004073	0243	14749														
076		OBS	T0593	0385	34916	2776			14759														
		STD	0600	0384	3492	2776	0004053	0284	14760														
		STD	0700	0378	3491	2776	0004121	0324	14774														
076		OBS	0794	0372	34904	2776			14787														
		STD	0800	0372	3490	2776	0004186	0366	14788														
		STD	0900	0366	3491	2777	0004152	0408	14802														
076		OBS	T0993	0362	34918	2778			14816														
		STD	1000	0362	3492	2778	0004123	0449	14817														
		STD	1100	0362	3492	2778	0004203	0491	14834														
		STD	1200	0361	3492	2778	0004280	0533	14850														
		STD	1300	0361	3492	2778	0004358	0576	14867														
		STD	1400	0360	3492	2778	0004435	0620	14884														
076		OBS	T1470	0360	34923	2779			14895														
		STD	1500	0358	3493	2780	0004414	0665	14900														
		STD	1750	0340	3495	2783	0004230	0773	14935														
085		OBS	T1956	0321	34961	2786			14962														
		STD	2000	0320	3496	2786	0004075	0876	14969														
085		OBS	T2455	0263	34928	2788			15022														
		STD	2500	0253	3492	2788	0003762	1072	15025														
085		OBS	T2758	0182	34904	2793			15039														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	WIND SPEED SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	M	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311353		EW	58512N	046300W		185	86	10	26	116	1968	051	2560	25					X1	6.6	0051
WAVE		WIND		BARD- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
CHLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
			14	S05	183	044	033	8	16												
MESSAGE TIME HR 1/10	CST NO.	CRD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S CC				
		STD	0000	0578	3467	2734	0007458	0000	14738												
121		OBS	0000	0578	34667	2734			14738												
		STD	0010	0581	3467	2733	0007508	0007	14740												
		STD	0020	0584	3467	2733	0007557	0015	14743												
121		OBS	0025	0585	34667	2733			14745												
		STD	0030	0586	3467	2733	0007570	0023	14746												
		STD	0050	0589	3469	2734	0007484	0038	14750												
121		OBS	0051	0589	34696	2735			14751												
		STD	0075	0601	3480	2742	0006840	0056	14761												
121		OBS	0076	0601	34806	2742			14761												
		STD	0100	0572	3496	2758	0005333	0071	14755												
121		OBS	0101	0571	34964	2758			14755												
		STD	0125	0524	3497	2764	0004752	0083	14740												
		STD	0150	0482	3497	2769	0004288	0095	14727												
121		OBS	0152	0479	34968	2770			14726												
		STD	0200	0417	3491	2771	0004099	0116	14707												
121		OBS	T0202	0415	34903	2771			14707												
		STD	0250	0415	3491	2772	0004098	0136	14715												
		STD	0300	0415	3492	2773	0004074	0157	14723												
121		OBS	0301	0415	34924	2773			14724												
		STD	0400	0408	3496	2776	0003831	0196	14737												
121		OBS	0403	0408	34957	2777			14738												
		STD	0500	0405	3493	2775	0004066	0236	14752												
121		OBS	T0503	0405	34932	2775			14753												
		STD	0600	0399	3493	2775	0004119	0276	14766												
121		OBS	T0603	0399	34928	2775			14767												
		STD	0700	0378	3492	2777	0004046	0317	14774												
		STD	0800	0366	3491	2777	0004058	0358	14785												
121		OBS	0800	0366	34912	2777			14785												
		STD	0900	0367	3491	2777	0004150	0399	14802												
121		OBS	T0996	0367	34912	2777			14819												
		STD	1000	0367	3491	2777	0004241	0441	14819												
		STD	1100	0365	3492	2778	0004251	0483	14835												
		STD	1200	0362	3493	2779	0004247	0526	14851												
		STD	1300	0358	3493	2780	0004229	0568	14866												
		STD	1400	0353	3494	2781	0004204	0610	14881												
121		OBS	T1468	0349	34944	2782			14891												
		STD	1500	0347	3495	2782	0004127	0652	14895												
		STD	1750	0328	3496	2785	0004000	0754	14930												
		STD	2000	0299	3496	2788	0003794	0851	14960												
129		OBS	2030	0295	34962	2788			14963												
		STD	2500	0215	3491	2791	0003315	1029	15009												
129		OBS	T2540	0207	34908	2791			15012												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MOON PHASE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	N/O	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
311353	EW		5907 N	04601 W		185	96	10	26	154	1968		052		2423	24				X6	6	8		0052
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB											
									14	S05	188	067	039	8	16									
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. 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						
		STD	0000	0592	3474	2738	0007080		0000		14744													
159		OBS	0000	0592	34740	2738					14744													
		STD	0010	0594	3474	2738	0007113		0007		14746													
		STD	0020	0595	3474	2737	0007146		0014		14749													
159		OBS	0025	0596	34740	2737					14750													
		STD	0030	0595	3474	2737	0007158		0021		14750													
		STD	0050	0593	3474	2738	0007146		0036		14753													
159		OBS	0050	0593	34742	2738					14753													
		STD	0075	0600	3479	2741	0006901		0053		14760													
159		OBS	0075	0600	34791	2741					14760													
		STD	0100	0619	3484	2742	0006815		0070		14773													
159		OBS	0100	0619	34839	2742					14773													
		STD	0125	0617	3490	2747	0006371		0087		14777													
159		OBS	0149	0613	34955	2752					14780													
		STD	0150	0613	3496	2753	0005910		0102		14780													
159		OBS	T0199	0600	35053	2762					14784													
		STD	0200	0599	3505	2761	0005135		0130		14784													
		STD	0250	0560	3504	2766	0004793		0155		14776													
159		OBS	0295	0531	35023	2768					14772													
		STD	0300	0529	3502	2768	0004630		0178		14772													
159		OBS	0392	0491	35000	2771					14771													
		STD	0400	0489	3500	2771	0004423		0223		14772													
159		OBS	T0489	0460	34974	2772					14774													
		STD	0500	0455	3497	2772	0004360		0267		14774													
159		OBS	T0588	0426	34948	2774					14776													
		STD	0600	0426	3495	2774	0004276		0311		14778													
		STD	0700	0425	3498	2777	0004143		0353		14795													
159		OBS	0787	0419	34986	2778					14807													
		STD	0800	0417	3498	2777	0004148		0394		14808													
		STD	0900	0401	3495	2777	0004275		0436		14817													
159		OBS	T0985	0389	34931	2776					14826													
		STD	1000	0388	3493	2777	0004351		0479		14828													
		STD	1100	0380	3494	2778	0004314		0523		14842													
		STD	1200	0372	3494	2779	0004281		0566		14855													
		STD	1300	0364	3494	2780	0004245		0608		14869													
		STD	1400	0356	3495	2781	0004198		0650		14882													
159		OBS	T1444	0352	34946	2781					14888													
		STD	1500	0348	3495	2782	0004162		0692		14896													
		STD	1750	0328	3495	2784	0004073		0795		14930													
166		OBS	1983	0304	34953	2787					14959													
		STD	2000	0302	3495	2786	0003907		0895		14961													
166		OBS	T2382	0251	34931	2790					15004													

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

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 ₂ -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	0503	3468	2744	0006532	0000	14707								
198	OBS	0000	0503	34676	2744				14707								
	STD	0010	0511	3471	2745	0006377	0006	14713									
	STD	0020	0522	3474	2746	0006289	0013	14719									
198	OBS	0022	0524	34751	2747				14720								
	STD	0030	0537	3479	2749	0006098	0019	14728									
198	OBS	0045	0558	34842	2750				14739								
	STD	0050	0566	3486	2751	0005940	0031	14744									
198	OBS	0067	0584	34890	2751				14754								
	STD	0075	0585	3490	2751	0005901	0046	14756									
198	OBS	0088	0586	3491	2752				14758								
	STD	0100	0592	3492	2752	0005890	0061	14763									
	STD	0125	0599	3494	2752	0005877	0075	14770									
198	OBS	0131	0600	3494	2753				14772								
	STD	0150	0597	3494	2753	0005858	0090	14774									
198	OBS	T0172	0592	3493	2753				14775								
	STD	0200	0576	3492	2754	0005816	0119	14773									
	STD	0250	0552	3490	2756	0005731	0148	14771									
198	OBS	0252	0551	3490	2756				14771								
	STD	0300	0530	3490	2758	0005536	0176	14771									
198	OBS	0330	0525	3490	2759				14773								
	STD	0400	0539	3496	2762	0005291	0230	14791									
198	OBS	T0407	0540	3497	2763				14793								
198	OBS	0432	0538	3496	2762				14796								
	STD	0500	0525	3497	2764	0005218	0283	14802									
203	OBS	0517	0522	3497	2765				14804								
	STD	0600	0511	3498	2766	0005113	0334	14813									
203	OBS	T0680	0500	3498	2768				14822								
	STD	0700	0497	3498	2768	0005026	0385	14824									
	STD	0800	0483	3498	2770	0004994	0435	14835									
	STD	0900	0467	3497	2771	0004939	0485	14845									
	STD	1000	0451	3497	2772	0004880	0534	14855									
	STD	1100	0433	3496	2774	0004782	0582	14864									
203	OBS	T1115	0430	3496	2774				14866								
	STD	1200	0414	3495	2775	0004718	0630	14873									
	STD	1300	0393	3495	2778	0004543	0676	14881									
203	OBS	T1399	0372	34940	2779				14889								

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

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 $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH
		STD	0000	0028	3174	2549	0024997	0000	14461							
231	OBS	0000	0028	31743	2549				14461							
	STD	0010	0030	3178	2552	0024719	0025		14464							
	STD	0020	0032	3181	2554	0024495	0049		14467							
231	OBS	0026	0034	31833	2556				14469							
	STD	0030	0035	3185	2557	0024201	0074		14470							
	STD	0050	0041	3194	2564	0023566	0122		14478							
231	OBS	0052	0042	31945	2565				14478							
	STD	0075	0068	3226	2589	0021225	0178		14498							
231	OBS	0077	0070	32287	2591				14500							
	STD	0100	0085	3257	2613	0018955	0228		14514							
231	OBS	T0102	0086	32588	2614				14515							

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