

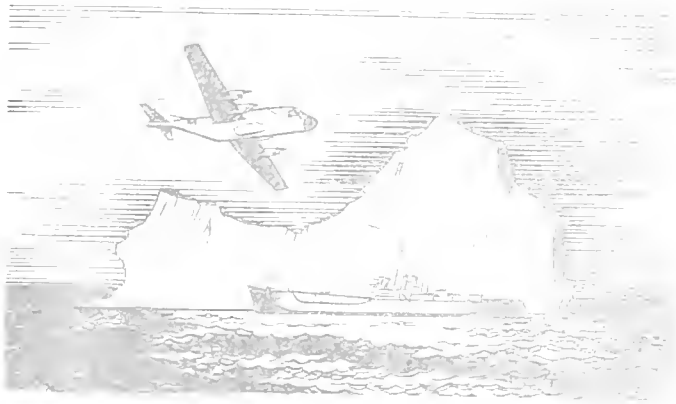
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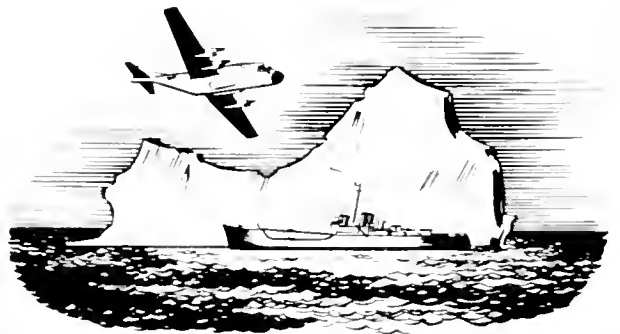
OCEANOGRAPHIC OBSERVATIONS IN THE BARENTS
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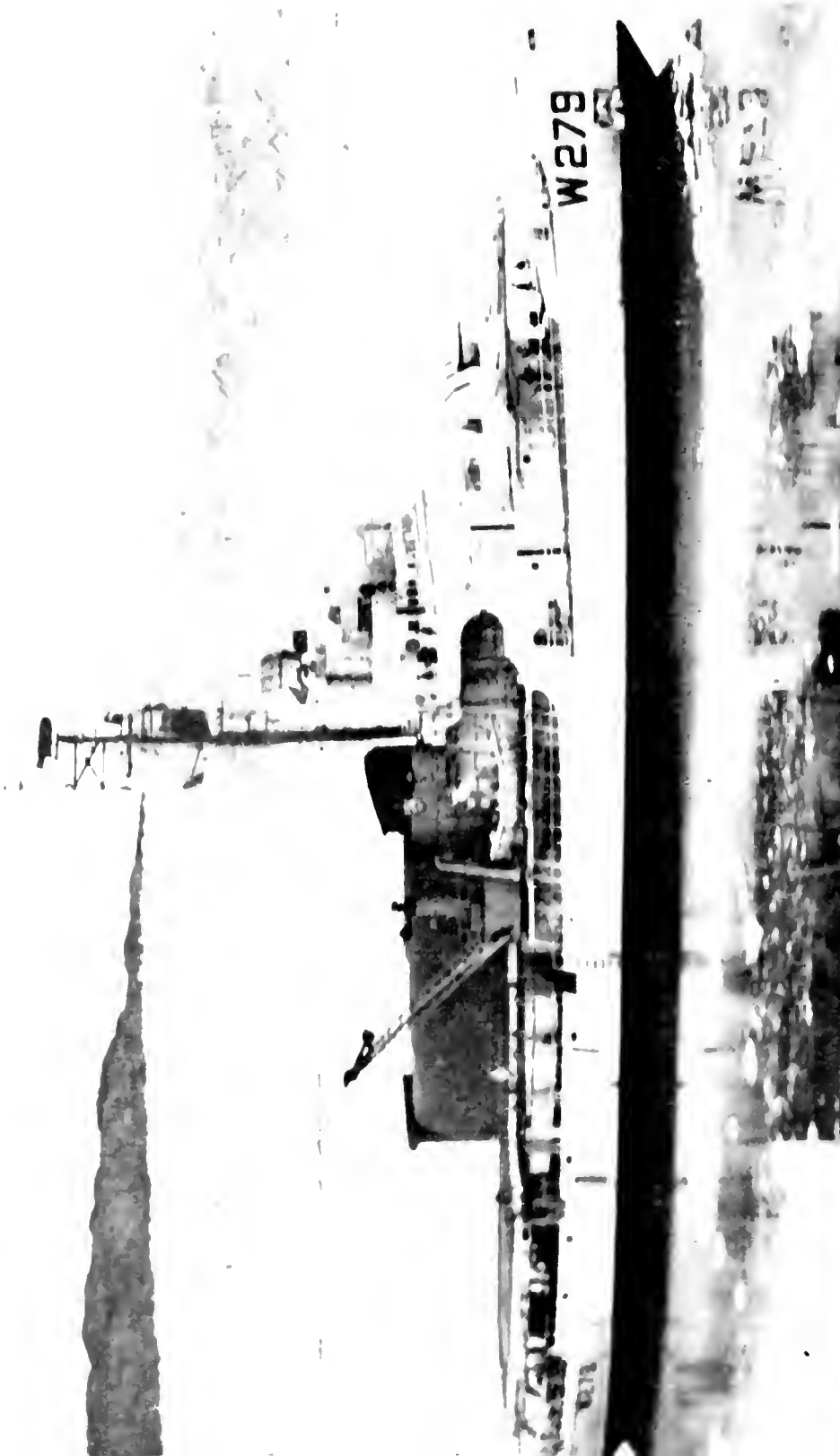
OCEANOGRAPHIC OBSERVATIONS IN THE KARA AND EASTERN BARENTS SEAS

Andrew W. Garcia



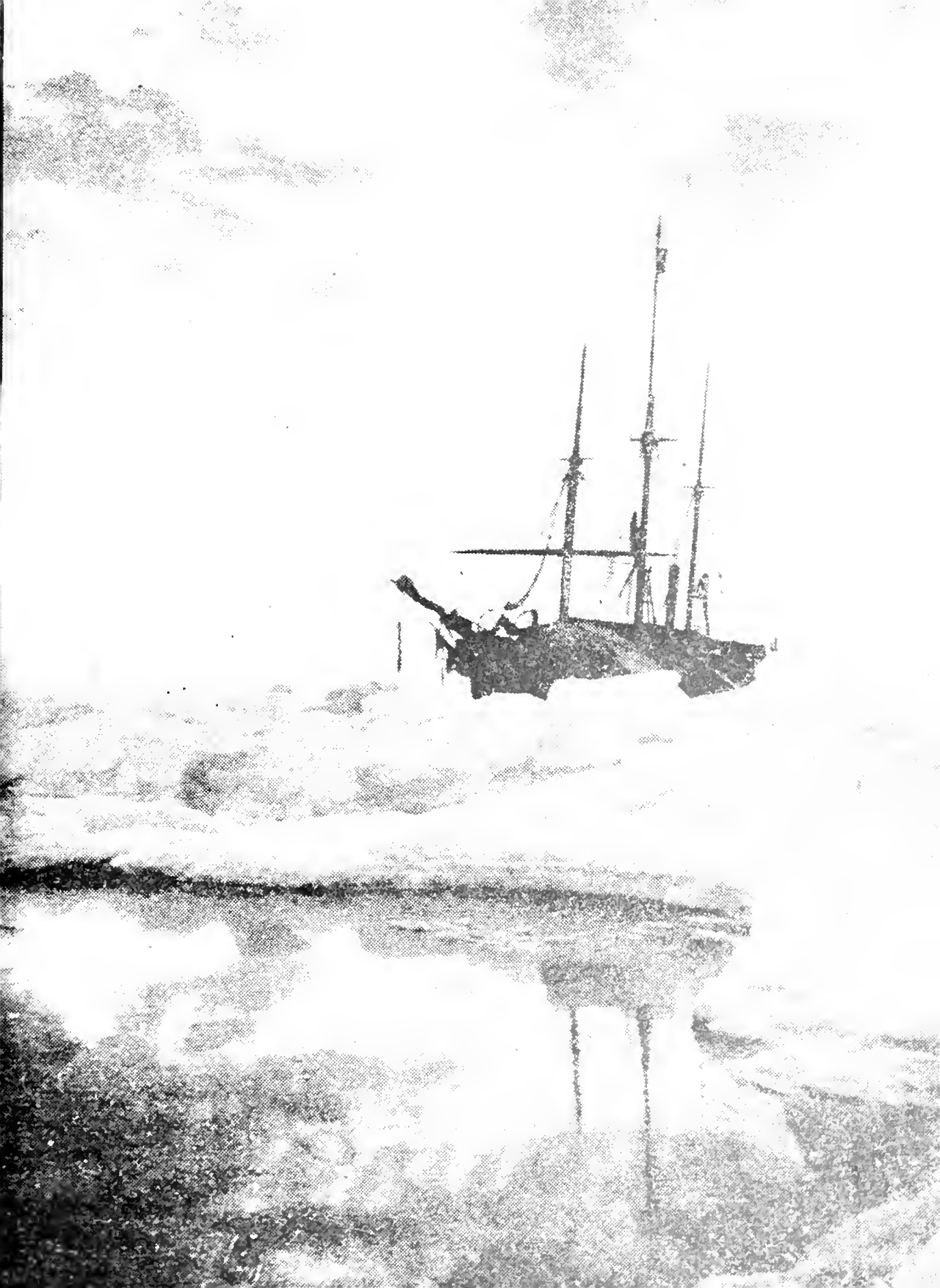
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Abstract

In 1967 an effort was made by USCGC EASTWIND (WAGB 279), CAPT William M. Benkert, Commanding, in company with USCGC EDISTO (WAGB 284) to conduct scientific investigations while circumnavigating the Arctic Ocean. This cruise was aborted when heavy ice blocked passage to the north of Severnaya Zemlya and the Soviet Union refused innocent passage through the Vilkitskiy Straits. As an alternative the 1967 survey of the Kara-Barents

Seas, described in this paper, was conducted. A total of 125 hydrographic stations were occupied from 31 August to 22 September 1967. In addition to Nansen casts conducted at all stations, bottom samples were obtained at 27 stations and surface plankton tows at 11. Preliminary results show extensive surface cooling taking place in the Barents Sea and a water mass structure unlike those previously reported in the Kara Sea.

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Oceanographic Observations in the Kara and Eastern Barents Seas

INTRODUCTION

The 1967 Eastwind Arctic Survey was conducted after an attempt to circumnavigate the Arctic Ocean had to be discontinued. Consolidated pack ice up to thirty feet in thickness in the area of latitude 81°27' N. and longitude 77°58' E. prevented passage to the north of Severnaya Zemlya. Consequently an alternative Survey of the Kara and eastern Barents Seas was performed.

The Eastwind Arctic Survey is the second survey conducted in the area of Kara and Barents Seas aboard a U.S. Coast Guard vessel. The first was aboard CGC NORTHWIND (WAGB 282) in 1965. This cruise was conducted by the Naval Oceanographic Office, the results of which appear in a report by D. Milligan (in press).

The survey was begun on 31 August and completed on 22 September 1967. Objectives of the survey were to gain a greater general knowledge of the physical, chemical and biological characteristics of the water masses of the Kara and eastern Barents Seas, and to conduct bathymetric and limited geological surveys of the area.

Data acquired includes Nansen casts and bathythermograph observations at 125 hydrographic stations; 40 in the Kara Sea, 82 in the Barents Sea and 3 in the Norwegian Sea. Station Locations are shown in Figure 1. Also obtained were 27 bottom samples utilizing a Phleger corer with a three foot barrel and 11 horizontal surface plankton tows with a 0.5 meter, #20 mesh net. Continuous bathymetric profiling was conducted throughout the survey area. Five hundred thirty-two weather observations were taken at intervals of three hours and 266 at intervals of six hours. Seventy two successful radiosonde observations were taken to obtain information on the upper air. Con-

tinuous observations of carbon dioxide and ozone content were also made.

DATA ANALYSIS AND PRESENTATION

A portion of the data was processed with the aid of a Digital Equipment Corporation PDP-5 computer. This includes correction of the reversing thermometers, and interpolation of temperature and salinity at specified depths. The processed data were checked for accuracy, coded and forwarded to the National Oceanographic Data Center.

Presented herein are figures displaying the horizontal isopleths of temperature and salinity, Figures 2 to 11; the vertical distribution of temperature, salinity, and oxygen, Figures 12 to 59; and the temperature vs. salinity plots at selected stations, Figures 60 to 81.

PHYSICAL CHARACTERISTICS OF KARA AND EASTERN BARENTS SEA

The Kara Sea Basin is a relatively closed, shallow basin with a volume of approximately $1.04 \times 10^3 \text{ km}^3$. The Ob, Yenisy, Pechora and lesser rivers discharge approximately $1.10 \times 10^3 \text{ km}^3$ of fresh water into the basin annually (Milligan, in press). Consequently a large proportion of the water mass in the Kara Sea is of low salinity.

Surface salinities of slightly less than 9‰ were observed in the proximity of the mouth of the Yenisy River. At only two stations in the Kara Sea did the value of surface salinity exceed 32‰. As might be expected, the extremely low salinity water is confined to the surface layers, that is, the upper 25m.

Vertical sections of salinity across the northern boundary of the Kara Sea from the tip of Novaya Zemlya to Oa Izestig Tsik indicate the region of mixing of the fresh water outflow from the rivers is confined to a relatively small

area within the basin. This does not necessarily mean the mixing is rapid, however. The fresh water inflow into the Kara Sea, while relatively large, amounts to less than one-third of one-percent of the volume of the basin per day. Quantitatively this means approximately 3km^3 per day must mix thoroughly with the surrounding water in order to maintain the average salinity in the area of mixing. As Sverdrup has noted the effect of the fresh water runoff is likely to be much more marked in summer than in winter (Sverdrup, 1950). The fresh water runoff when mixed with Arctic water with salinity of approximately 34.5‰ and temperature -1.7° to -1.8° C. probably forms the surface water found to the north of Novaya Zemlya between Franz Josef Land and the Russian Continent. The formed water mass is characterized by temperatures of approximately -1.0 to 0.5° C. and salinities of 25‰ to 30‰ (Milligan, in press).

CHARACTERIZATION OF WATER MASS

Figures 60 through 81 are T-S diagrams at selected stations in the Kara and Barents Seas. These stations were selected with the intention that the great variability of water mass characteristics in these areas should be exemplified. That the water mass characteristics in the Kara Sea are extremely variable was noted by Nansen from data taken from cruises by Nansen and Nordenskiold, (Nansen, 1902).

Figures 73 through 81 show a progressive decrease in surface temperature from 6.75° C. to 1.15° C. from latitude $72^\circ 00'$ N. to $77^\circ 37'$ N. in the Barents Sea. The drop in temperature is probably due to surface cooling as the water flows northward.

Figures 73, 74, and 75 show at first glance what appear to be density inversions. However, for these approximate values of temperature and salinity, the lines of constant σ_t are nearly vertical indicating the density is salinity controlled. Therefore, the σ_t values actually increase with depth. These figures show evidence of lateral mixing with a different water mass. Figure 11 shows a core of relatively high salinity water entering through the eastern boundary of the survey area. The 34.95‰ isohaline was chosen as the boundary of the core. This water is probably Deep Polar Water described by Nansen (Sverdrup, 1950)

and Zenkevitch (1963) which has broken from a gyre originating in a southward flow of Deep Polar Water to the east of Franz Josef Land. Figures 73, 74, and 75 also show a water type of unknown origin in association with the Deep Polar Water. This water type is characterized by temperatures of 0.0° C. to -0.6° C. and salinities of 34.75‰ to 34.90‰.

The oxygen distribution of the Kara Sea was examined using Wust's core method (Wust, 1964), using the 9.0ml/l isopleth as the boundary. Figure 10 shows the isopleth to be closed on three sides and bounded on the fourth by Novaya Zemlya. This may indicate the flow of water masses with discreet characteristics into the Kara Sea basin.

A similar analysis was carried out for the eastern Barents Sea, using the 8.0ml/l isopleth as the boundary again as shown in Figure 10. There is a tongue extending northeastward adjacent to Novaya Zemlya.

Figures 68 and 69, drawn from data taken at stations 30 and 31 only 27.6 miles apart, illustrate the extreme spatial gradients in water properties which occur in the region.

CIRCULATION OF BARENTS AND KARA SEAS

Consideration was given to attempting a computation of dynamic topography in the Kara Sea from the data obtained aboard GCG EASTWIND. Preliminary investigations, however, indicated the area to be too shallow for satisfactory application of the usual technique of referencing each station to a level of no motion. No further effort was made to compute the dynamic topography.

Previous studies have shown current speeds in regions of the Kara and Barents Seas to be quite low. Nansen's drift measurements aboard the FRAM (Sverdrup, 1950) indicate that surface currents in the region of the southern entrance of the Barents Sea move at about 1.5 nautical miles per day. Milligan (in press) placed current meters in two locations in the vicinity of the Kara Sea. One of these was placed thirty miles west of Proliv Vilkitskogo at a depth of 80m. The average velocity recorded was approximately 0.15 knots in a west-southwest direction.

Sverdrup, et al, 1960 indicates that the circulation in the Barents Sea is predominantly counterclockwise and wind driven.

Perhaps one of the most detailed discussion of currents of this region is by Novitskiy (1961). Preobrozhenkiy and Novitskiy distinguish twenty-nine separate currents and their branches as occurring in the Barents Sea. Of particular interest to this study was a current which they labeled as the Pechora Current. This current originates in the Western Barents Sea and flows through the Pechora Sea where a portion of it enters the Kara Sea through Proliv Karaskiye Varota. This is shown in Figures 2 and 4 by a tongue of warm water protruding into the southern Kara Sea at about station 3.

It has generally been accepted that the predominant current scheme in the Kara Sea is cyclonic with water entering from the Barents Sea, flowing adjacent to the east coast of Novaya Zemlya, turning northward and exiting through the northeastern portion of the Kara Sea. Such a circulation is not evidenced in the data of this study (Figures 2, 4, 6, and 8). Rather, there seems to be a general northward flow through the Kara Sea. It is likely that there is some entrainment with the outflow from the Ob and Yenisey Rivers which would contribute to the general pattern of northward flow.

CONCLUDING REMARKS

The studies done by Nansen (1902), Sverdrup (1950), Zenkevitch (1963), Milligan (in press) and this author suggest that the circulation in the Kara Sea is not stationery and, in fact, is characterized by few permanent features. It is doubtful that such differing conditions could be observed without some transient phenomena being present.

Nansen (1902) observed the presence of "dead water" waves in the area and cited evidence of oscillations of the boundary between warm and cold currents. Neumann and Pierson (1966) state that conditions of strong density gradients similar to those found in the Kara Sea are very conducive to the formation of internal waves. It is indeed very probable that some of the (temporal) variation of the normally observed oceanographic parameters is due to internal oscillations in the Kara Sea. However, with the present data available, which do not include extensive time series observations, it is very difficult to determine the modes of the oscillations and hence the forces which govern them.

Future surveys in the area might consider the possibility of conducting continuous or close interval serial observations at several stations in order to determine the modes of these oscillations if, in fact, they do exist. Such oscillations would probably be easiest to detect and observe in the summer months when the ice has melted and the river outflow is greatest resulting in a maximum vertical salinity gradient.

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Table of Oceanographic Data

The following are the observed and interpolated data taken aboard the USCGC EDISTO (WAGB 284) and USCGC EASTWIND (WAGB 279) during the Barents-Kara Seas Survey. Presentation is from National Oceanographic Data Center Cruise Listing No. 31-1165.

Notes:

Depth to bottom—uncorrected sounding depth in meters based on a speed of sound in sea water of 1463.0 m/sec.

Depth (m)—postscript T indicates a depth determined by thermometric calculation.

Sound velocity—in meters per second to tenths according to Wilson's formula.

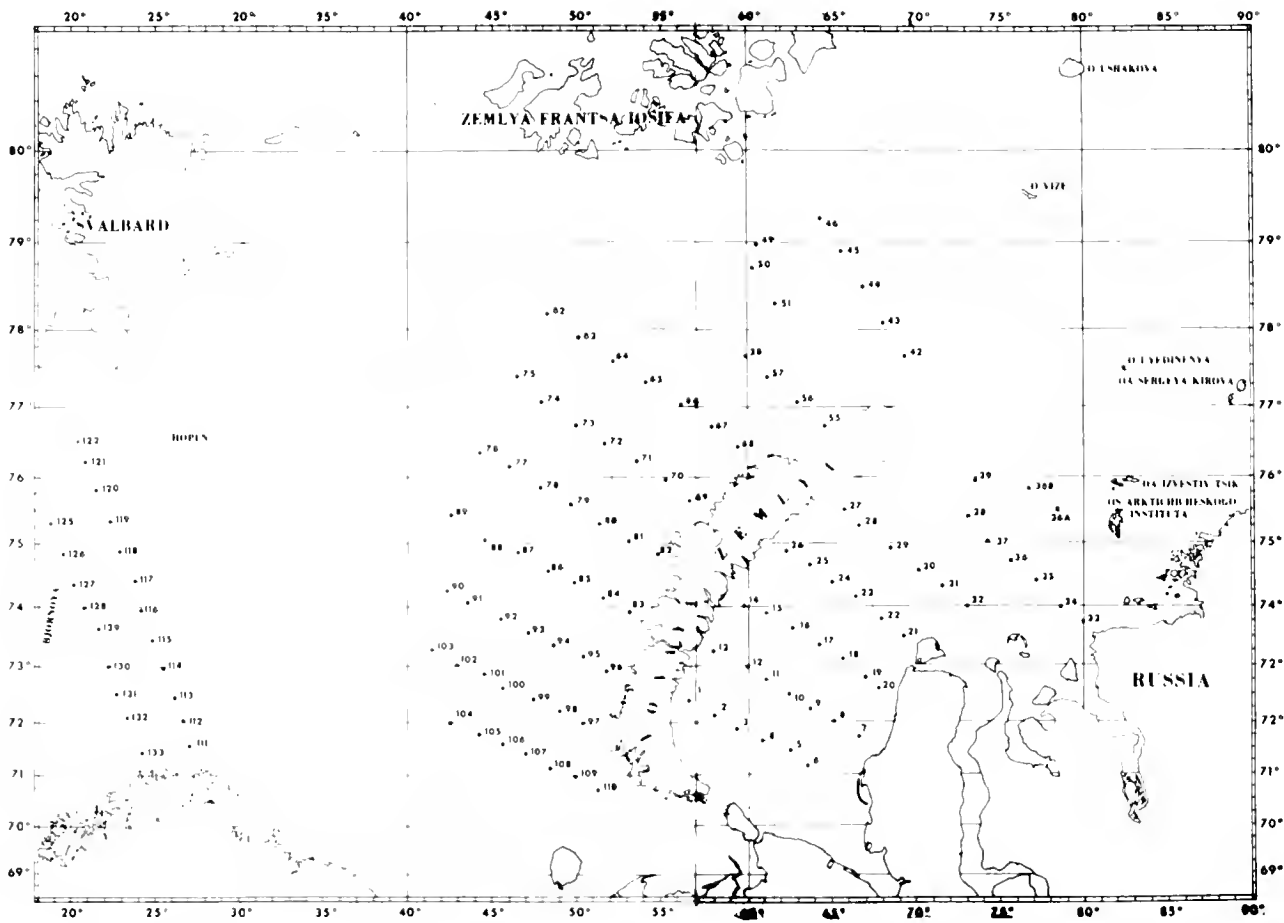


Figure 1. Chart of Positions of Stations Occupied by USCGC EASTWIND during 1967 Kara-Barents Seas Survey.

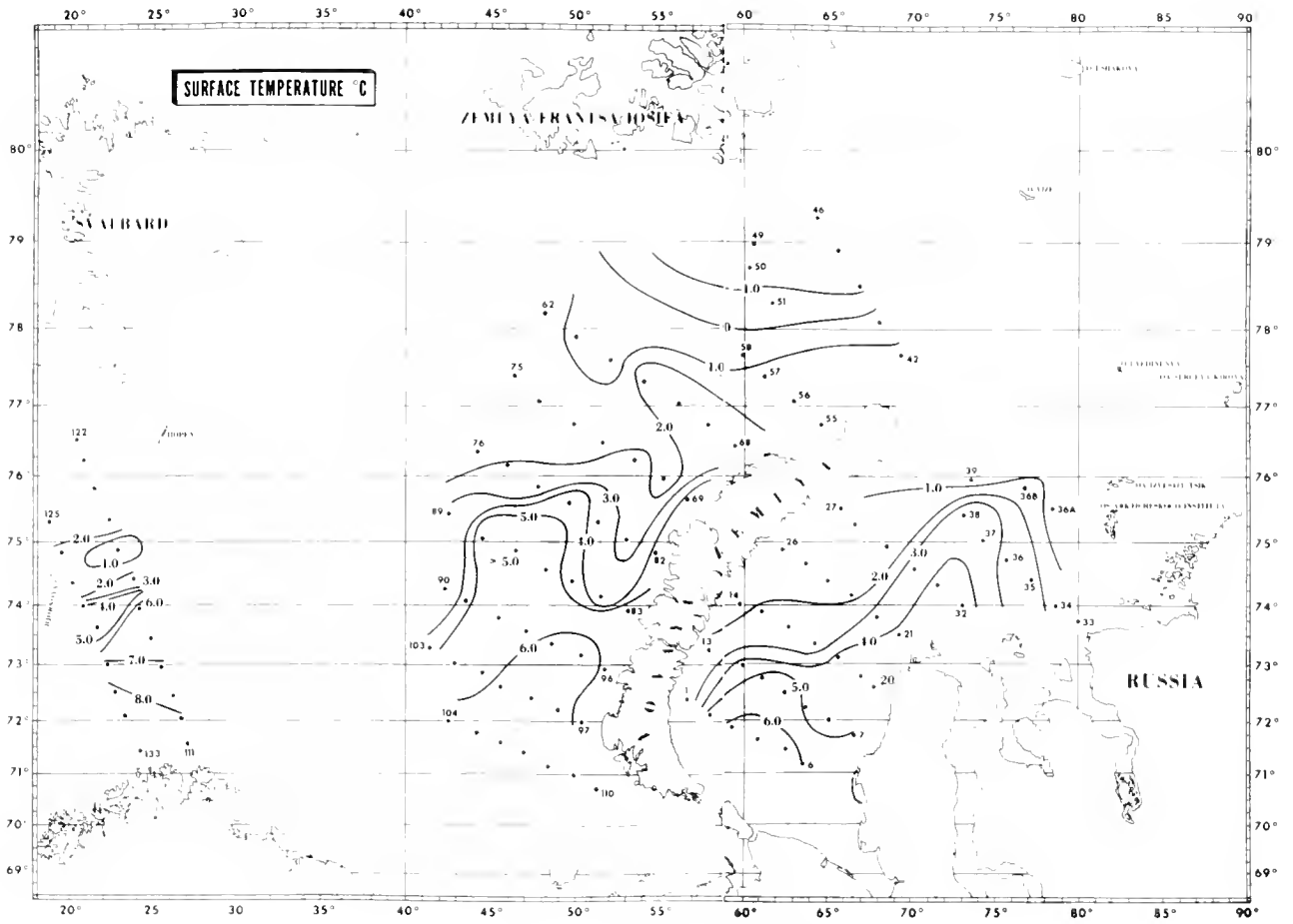


Figure 2. Contours of Surface Isotherms.

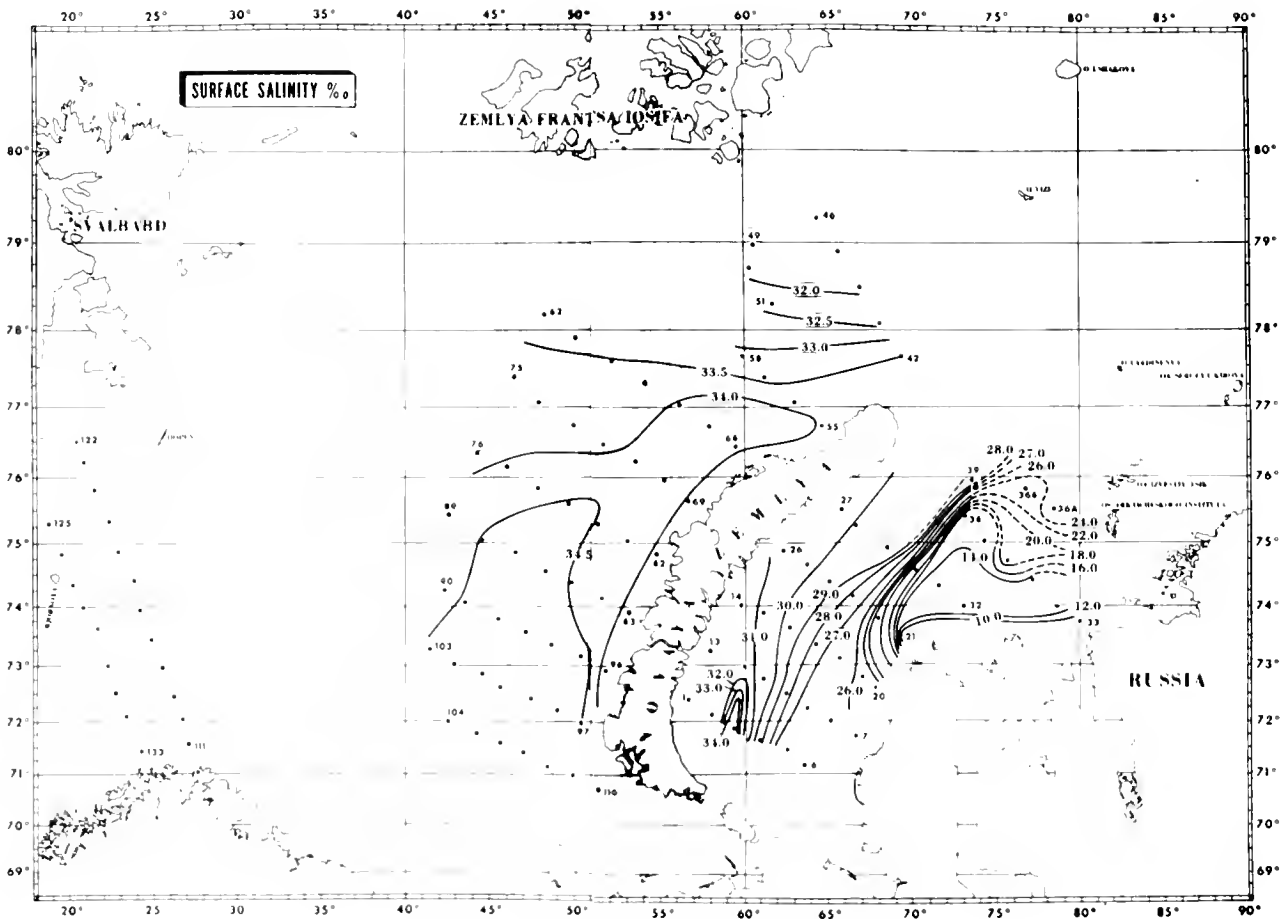


Figure 3. Contours of Surface Isohalines.

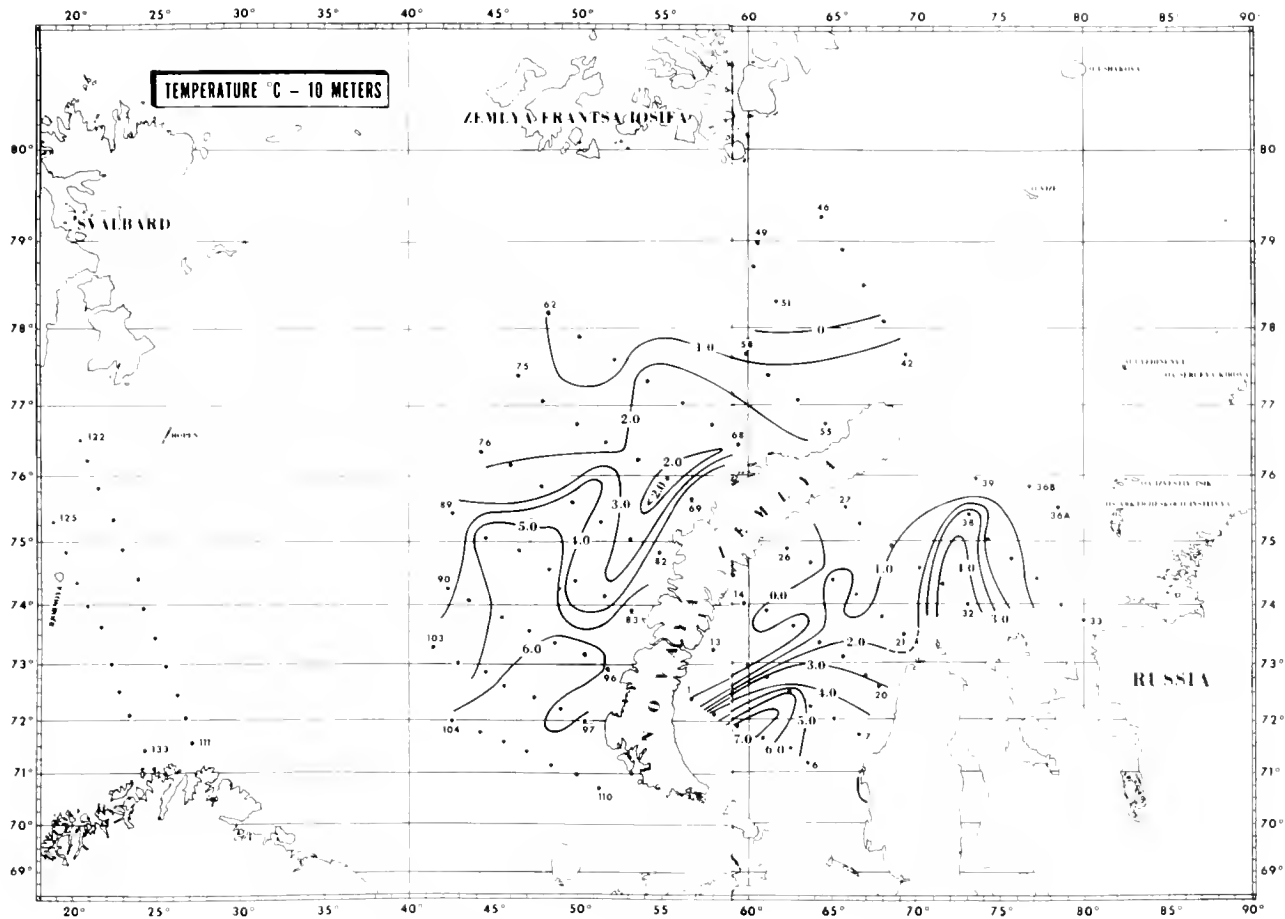


Figure 4. Contours of Isotherms at 10m Depth.

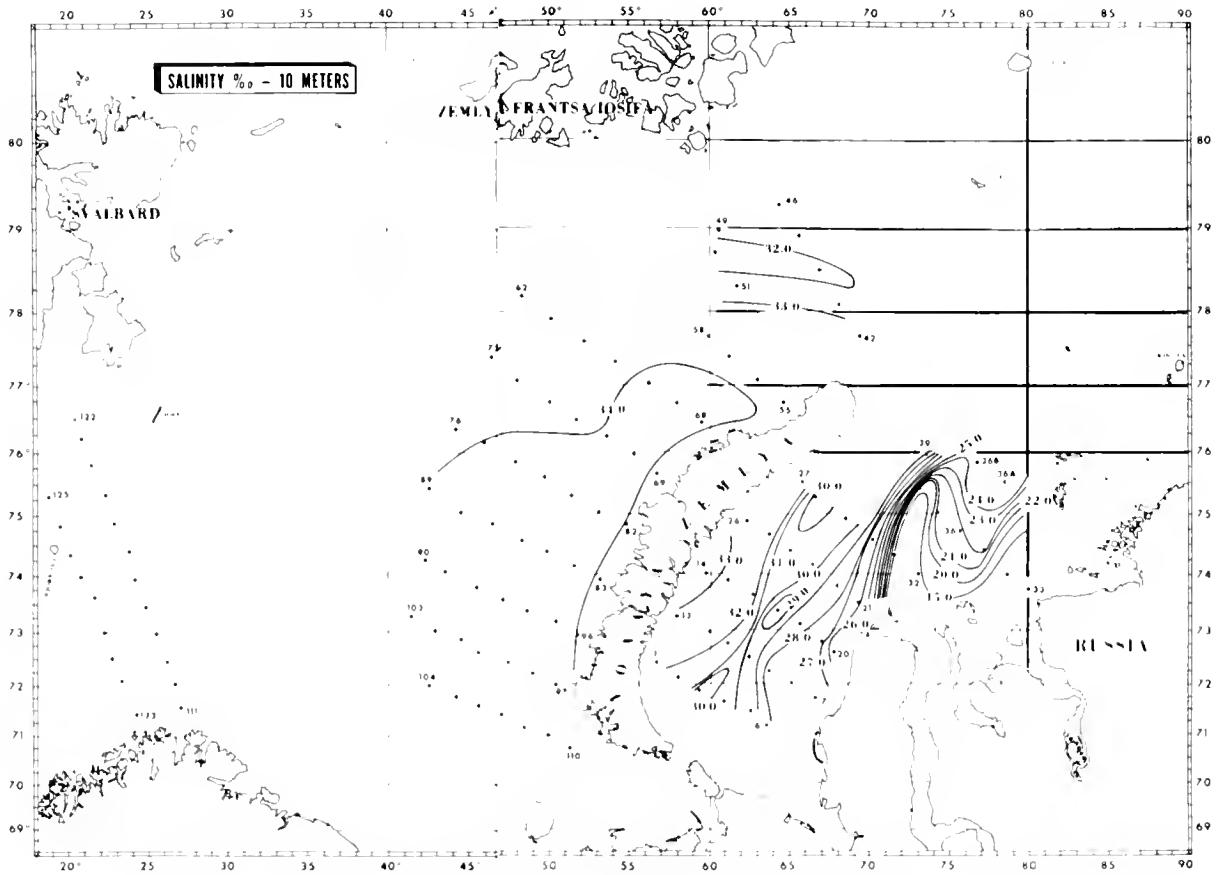


Figure 5. Contours of Isohalines at 10m Depth.

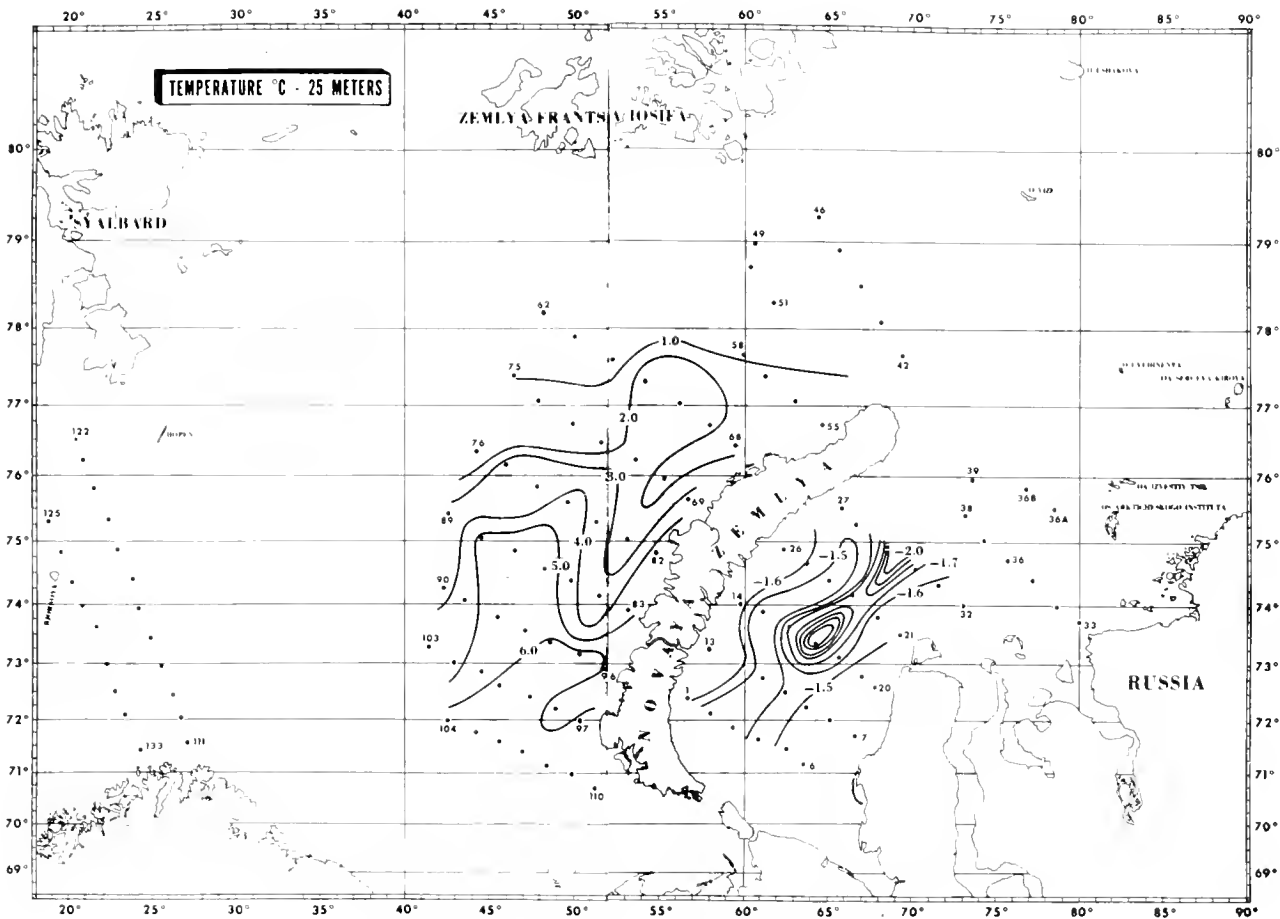


Figure 6. Contours of Isotherms at 25m Depth.

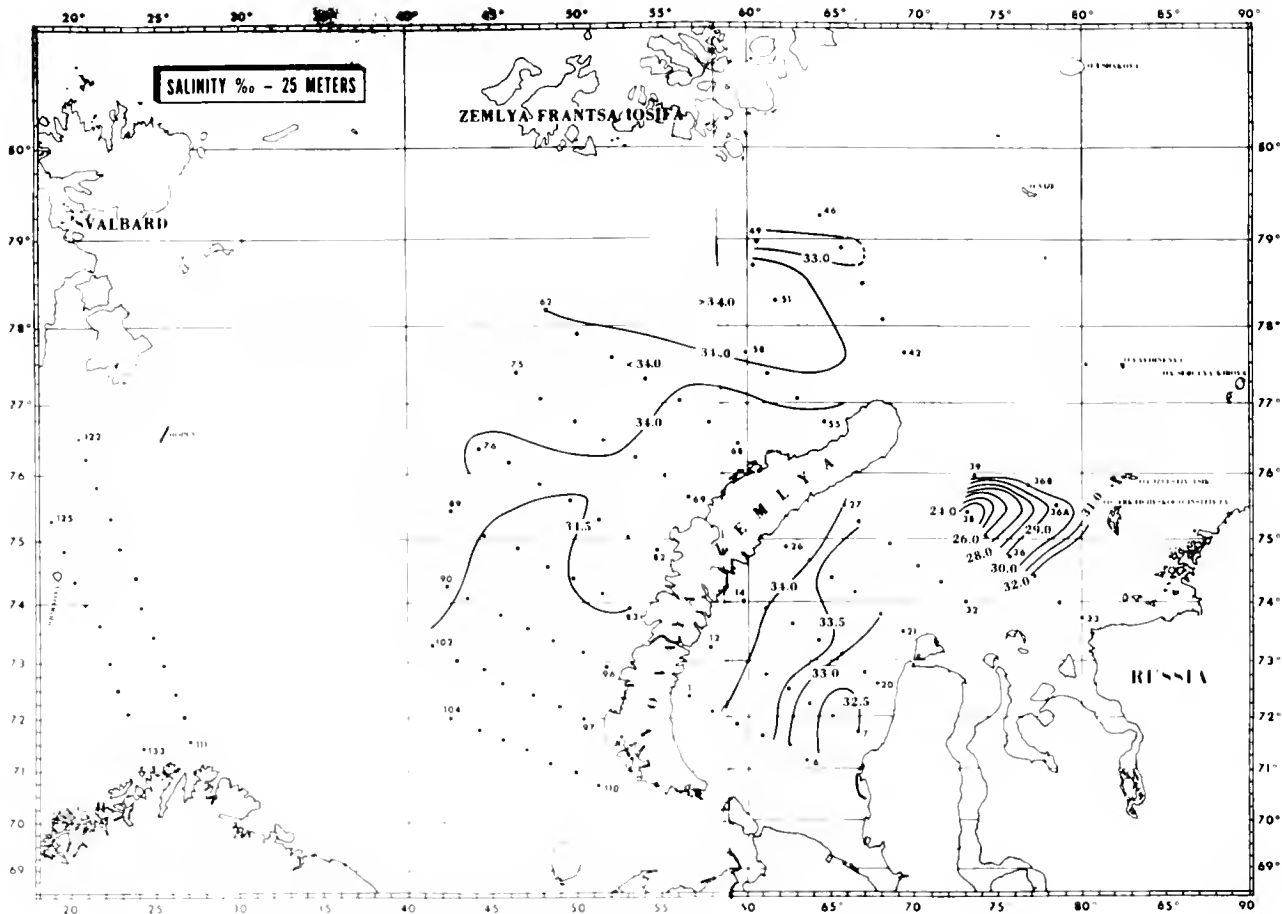


Figure 7. Contours of Isohalines at 25m Depth.

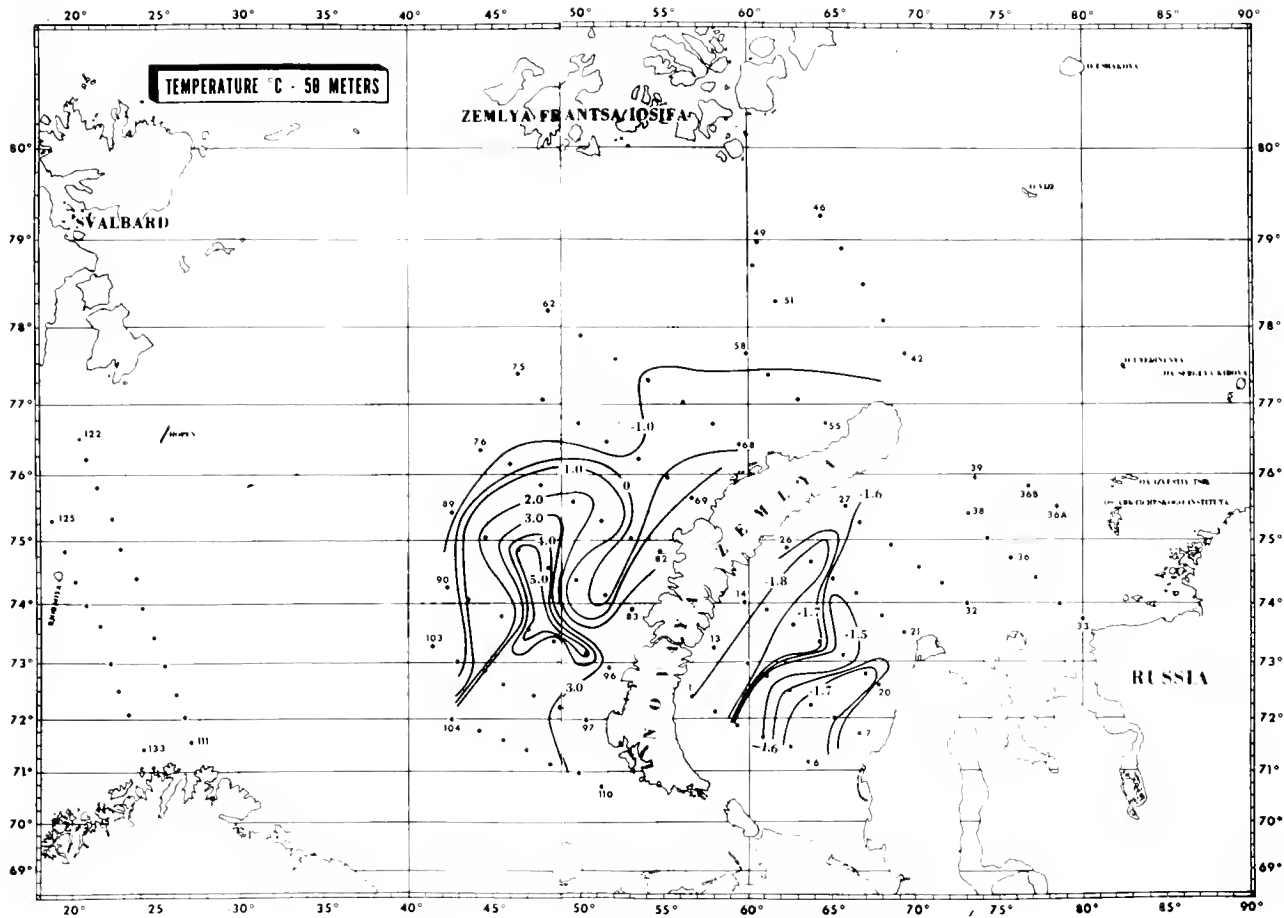


Figure 8. Contours of Isotherms at 50m Depth.

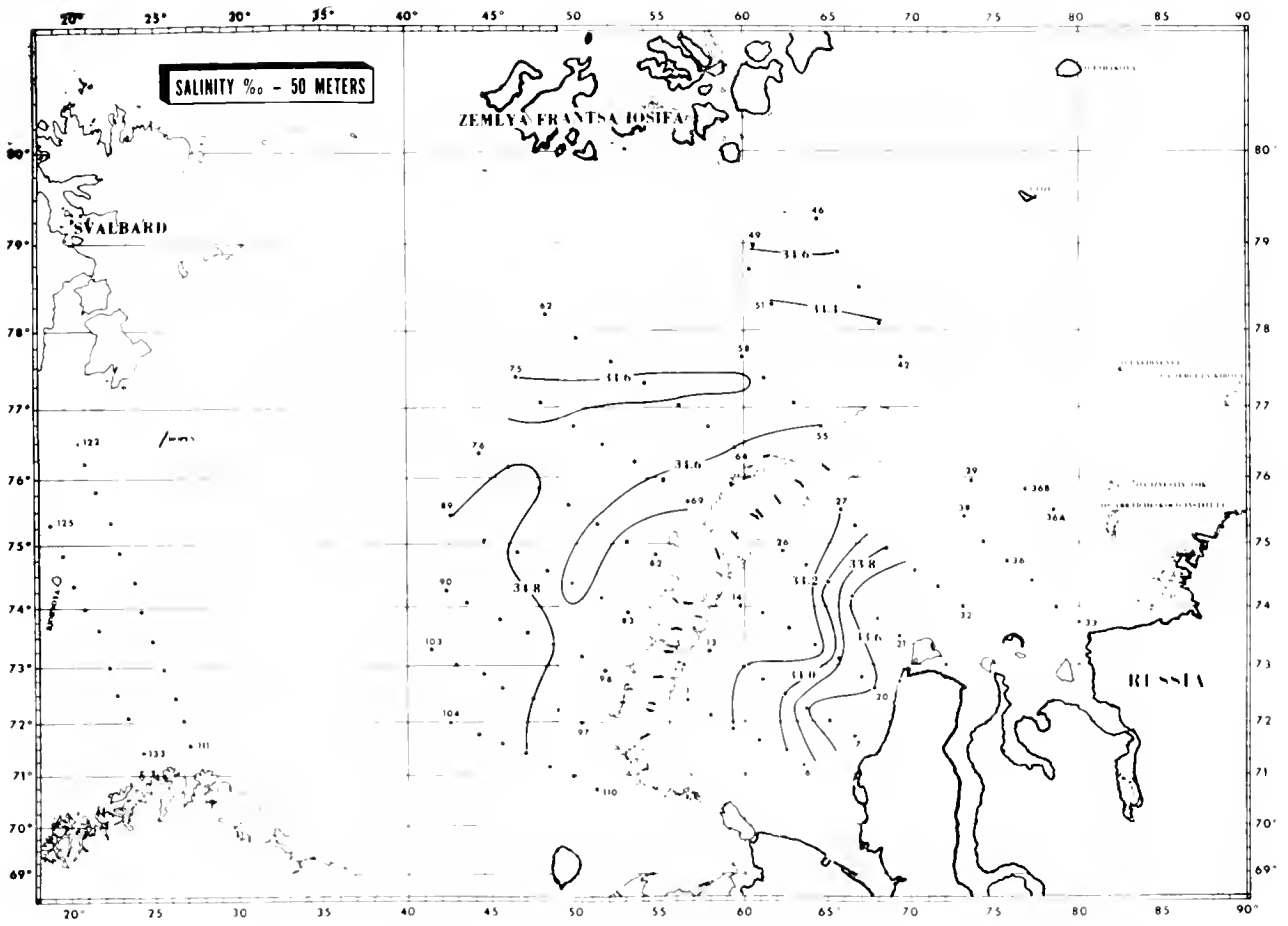


Figure 9. Contours of Isohalines at 50m Depth.

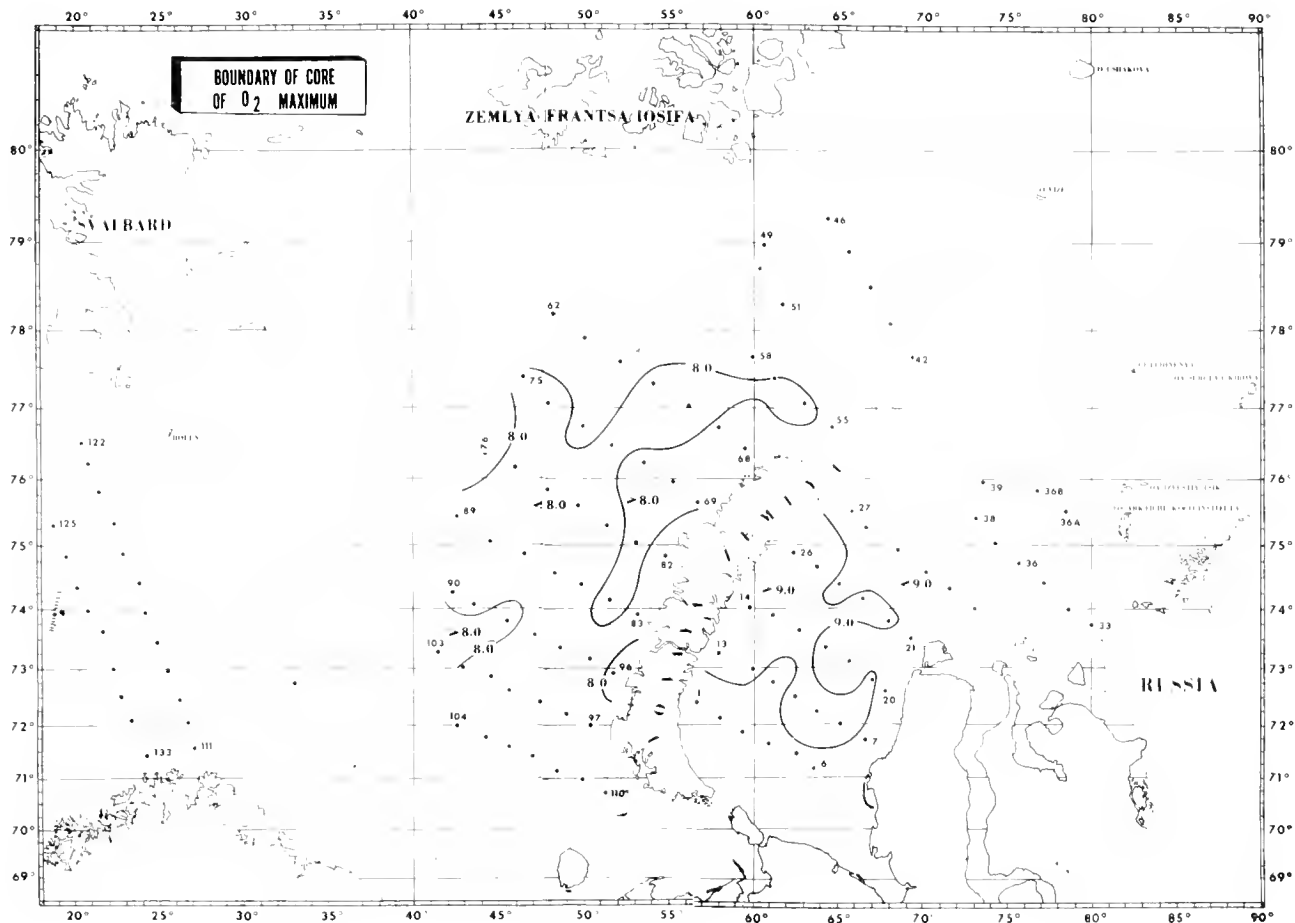


Figure 10. Contours of Isopleths of Oxygen at 8.0 ml/l and 9.0 ml/l in Barents and Kara Seas Respectively.

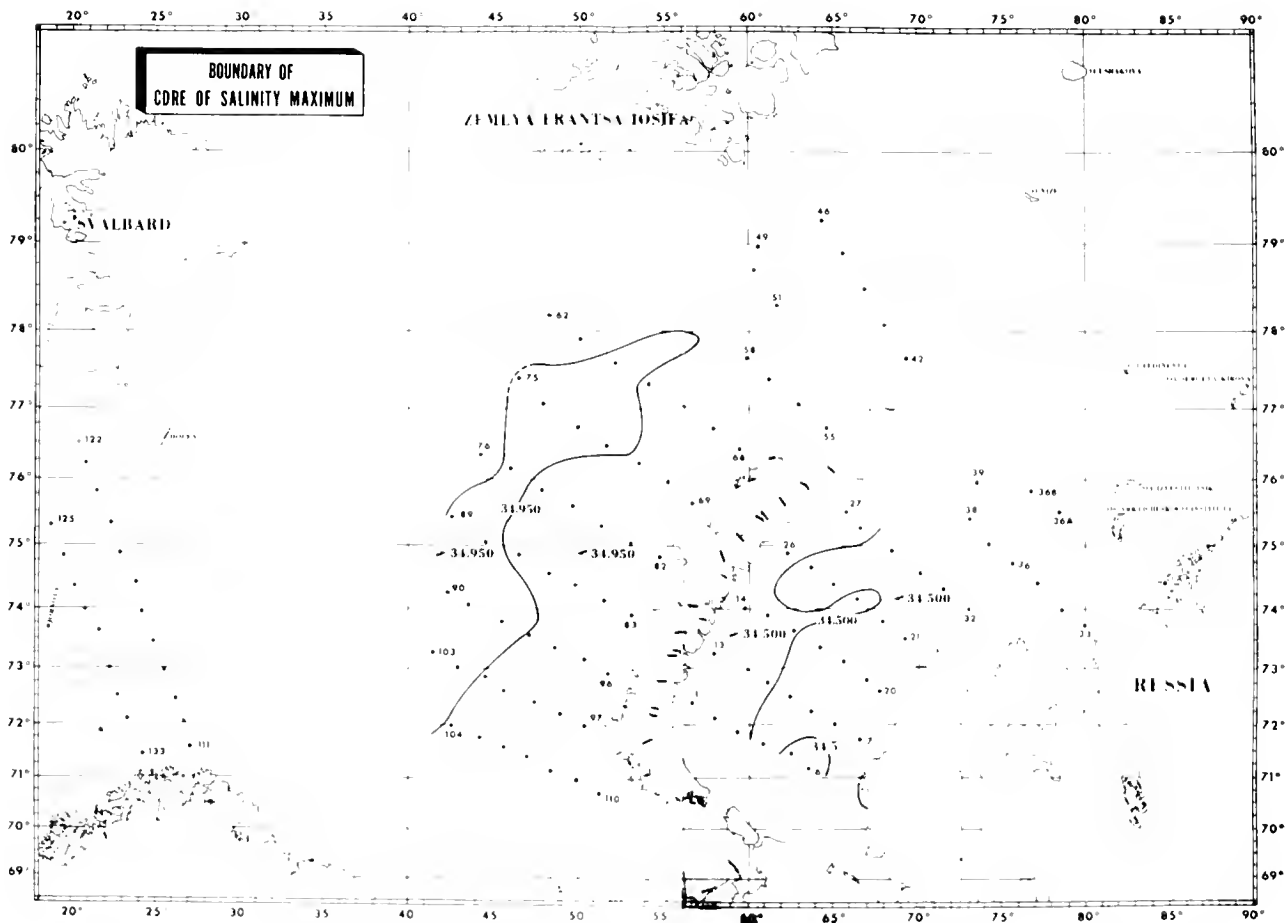


Figure 11. Contours of 34.95 Salinity and 34.50 Salinity Isohalines in Barents and Kara Seas Respectively.

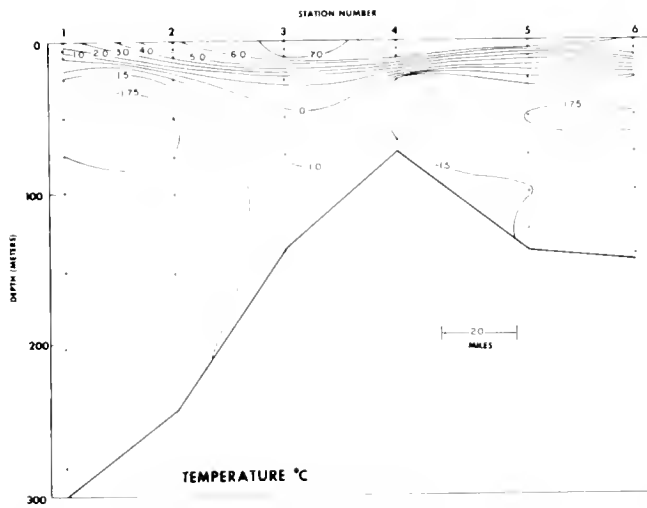


Figure 12. Vertical Distribution of Temperature, Stations 1 through 6.

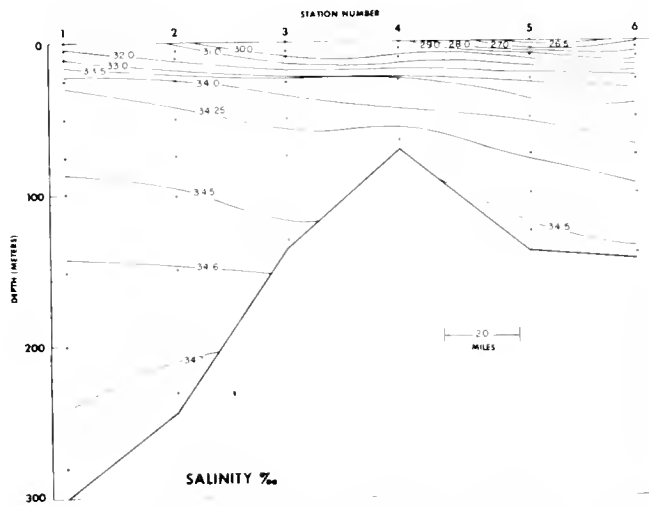


Figure 13. Vertical Distribution of Salinity, Stations 1 through 6.

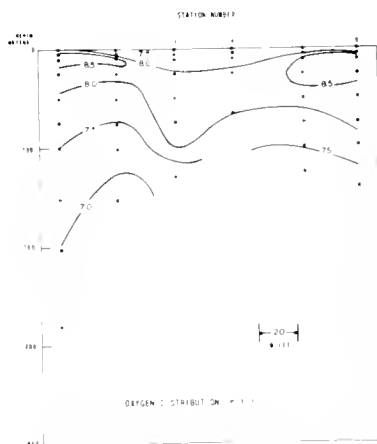


Figure 14. Vertical Distribution of Oxygen, Stations 1 through 6.

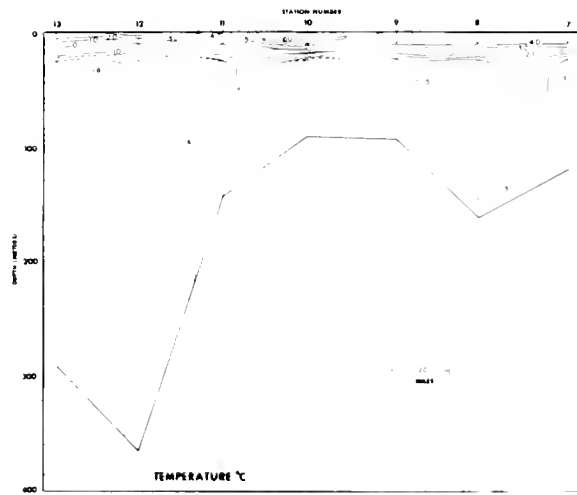


Figure 15. Vertical Distribution of Temperature, Stations 7 through 13.

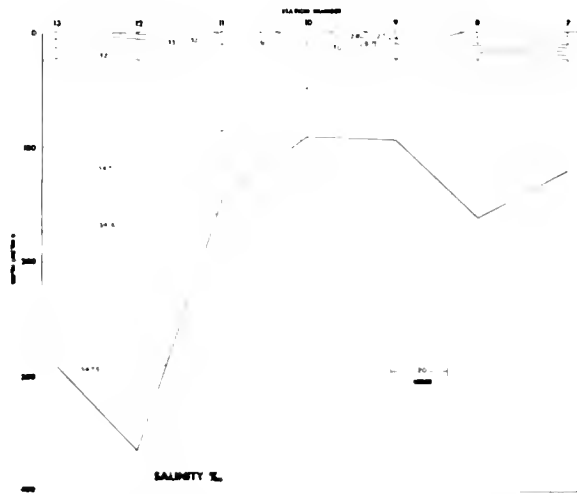


Figure 16. Vertical Distribution of Salinity, Stations 7 through 13.

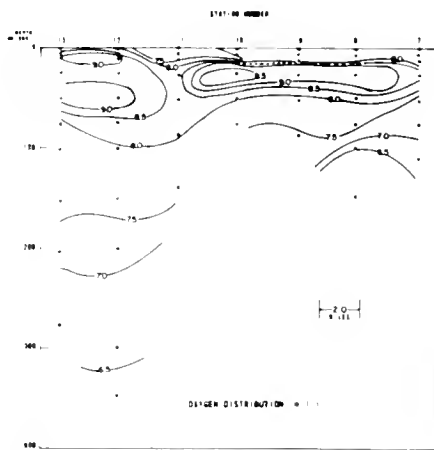


Figure 17. Vertical Distribution of Oxygen, Stations 7 through 13.

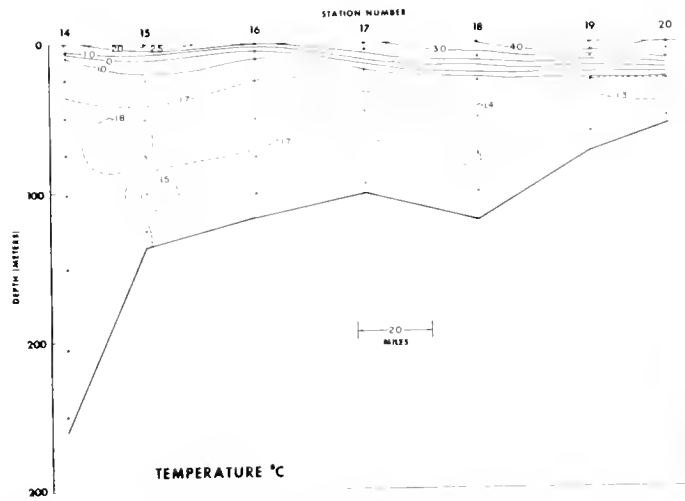


Figure 18. Vertical Distribution of Temperature, Stations 14 through 20.

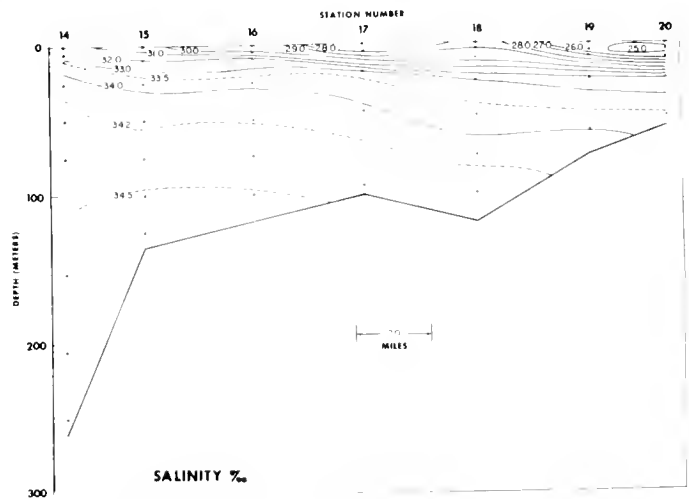


Figure 19. Vertical Distribution of Salinity, Stations 14 through 20.

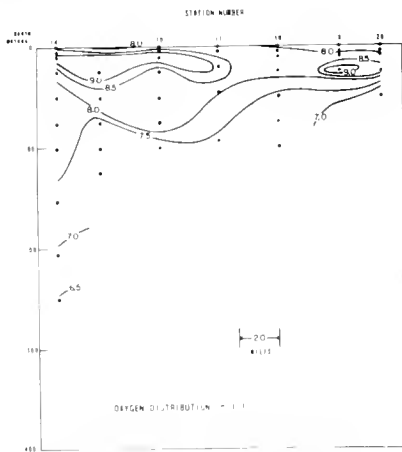


Figure 20. Vertical Distribution of Oxygen, Stations 14 through 20.

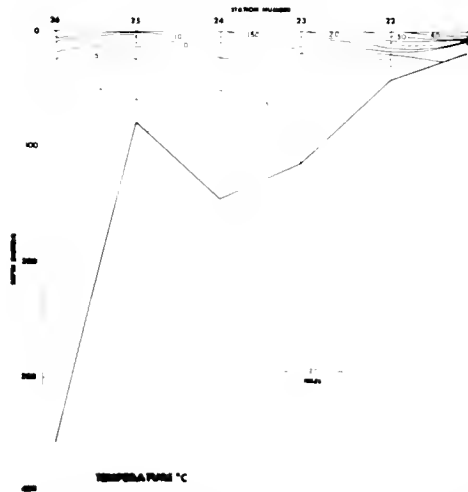


Figure 21. Vertical Distribution of Temperature, Stations 21 through 26.

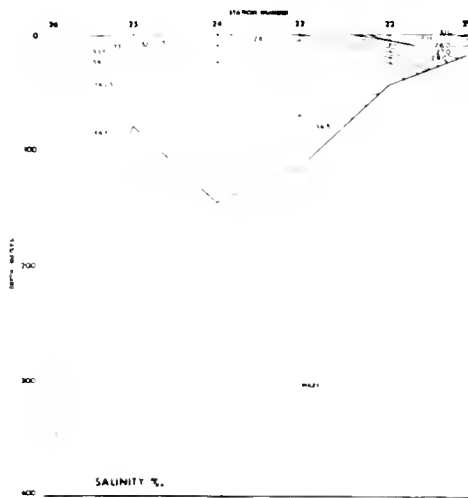


Figure 22. Vertical Distribution of Salinity, Stations 21 through 26.

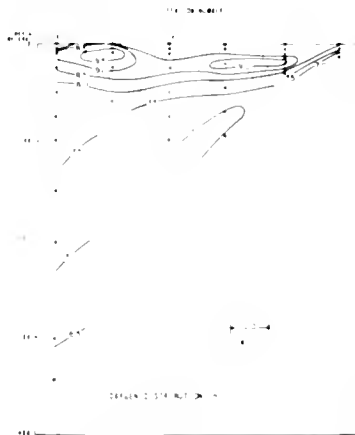


Figure 23. Vertical Distribution of Oxygen, Stations 21 through 26.

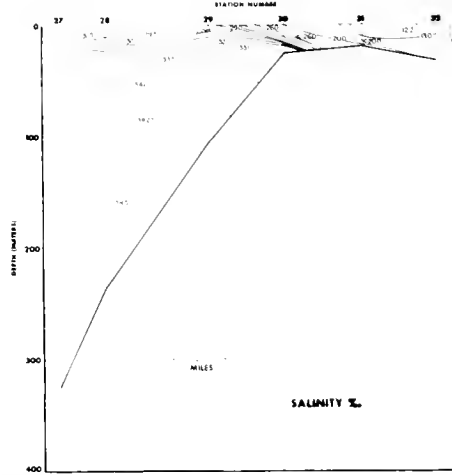


Figure 24. Vertical Distribution of Temperature, Stations 27 through 32.

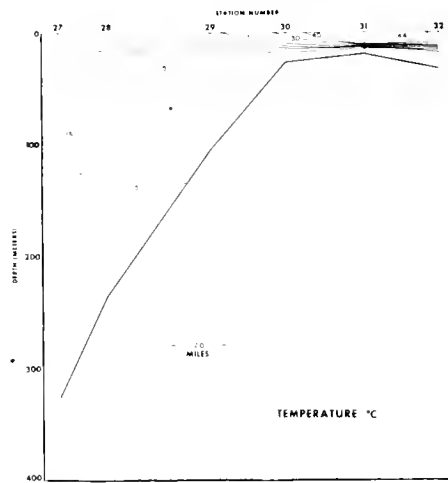


Figure 25. Vertical Distribution of Salinity, Stations 27 through 32.

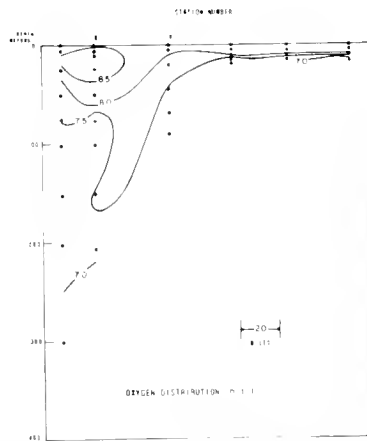


Figure 26. Vertical Distribution of Oxygen, Stations 27 through 32.

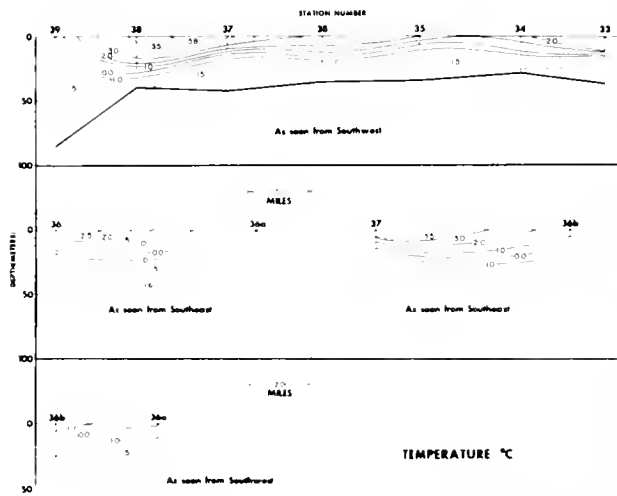


Figure 27. Vertical Distribution of Temperature, Stations 33 through 39.

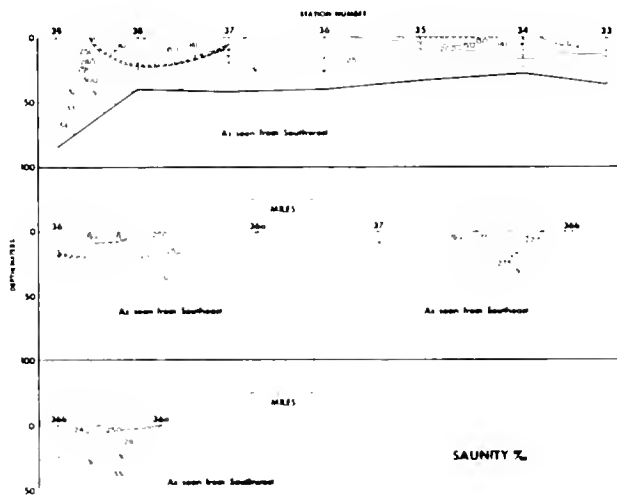


Figure 28. Vertical Distribution of Salinity, Stations 33 through 39.

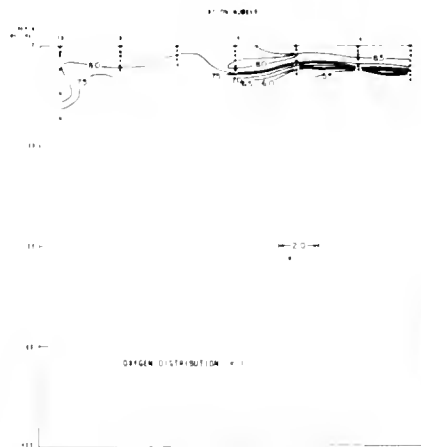


Figure 29. Vertical Distribution of Oxygen, Stations 33 through 39.

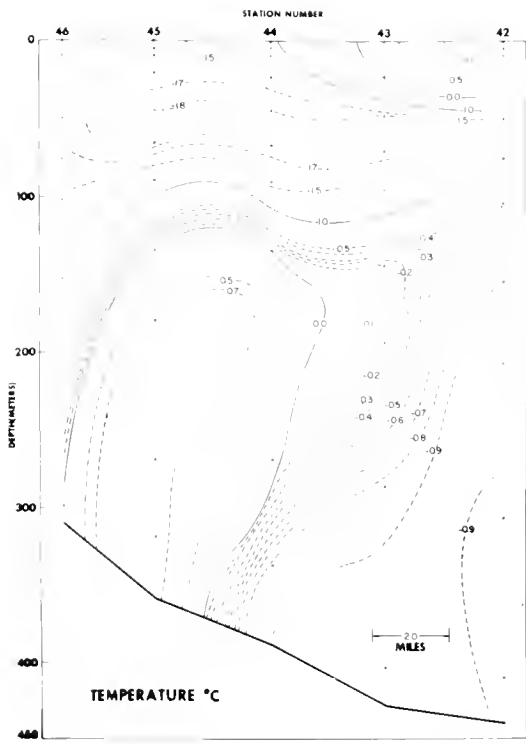


Figure 30. Vertical Distribution of Temperature, Stations 42 through 46.

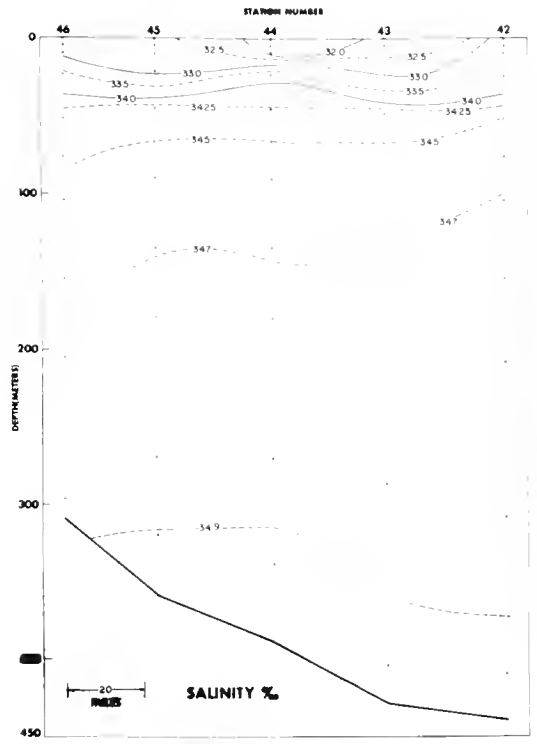


Figure 31. Vertical Distribution of Salinity, Stations 42 through 46.

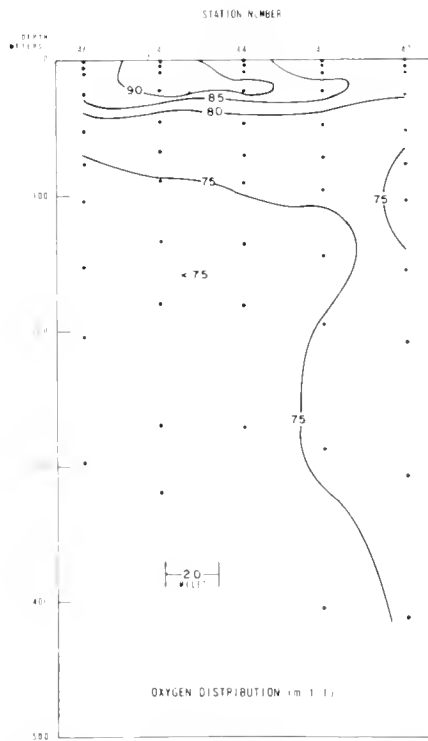


Figure 32. Vertical Distribution of Oxygen, Stations 42 through 46.

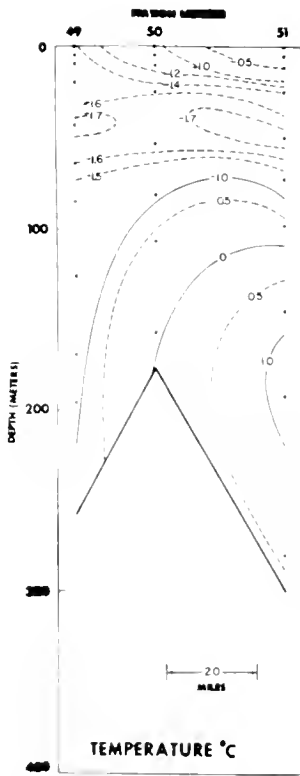


Figure 33. Vertical Distribution of Temperature, Stations 49 through 51.

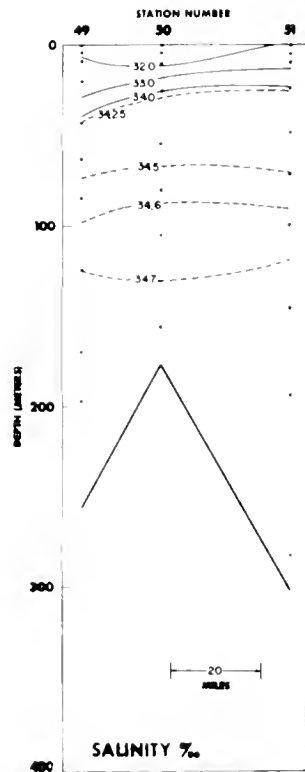


Figure 34. Vertical Distribution of Salinity, Stations 49 through 51.

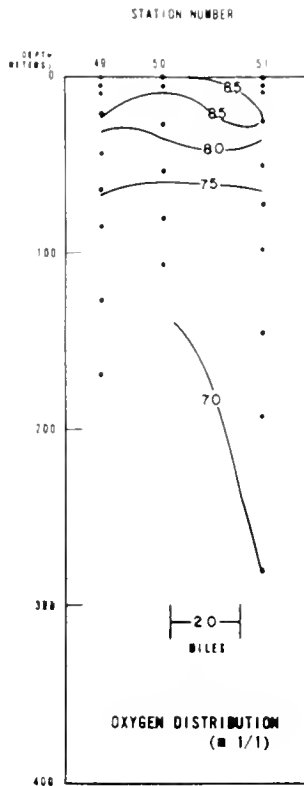


Figure 35. Vertical Distribution of Oxygen, Stations 49 through 51.

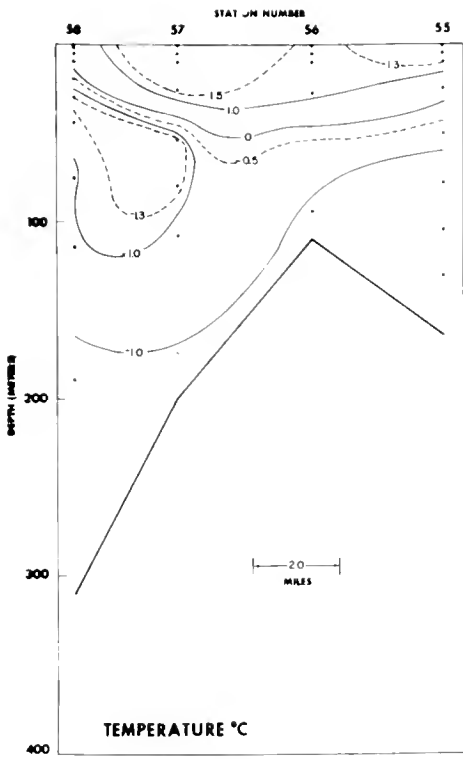


Figure 36. Vertical Distribution of Temperature, Stations 55 through 58.

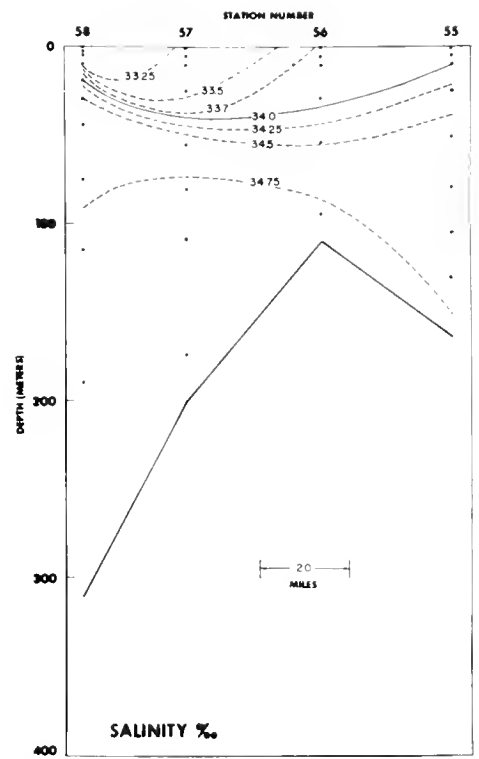


Figure 37. Vertical Distribution of Salinity, Stations 55 through 58.

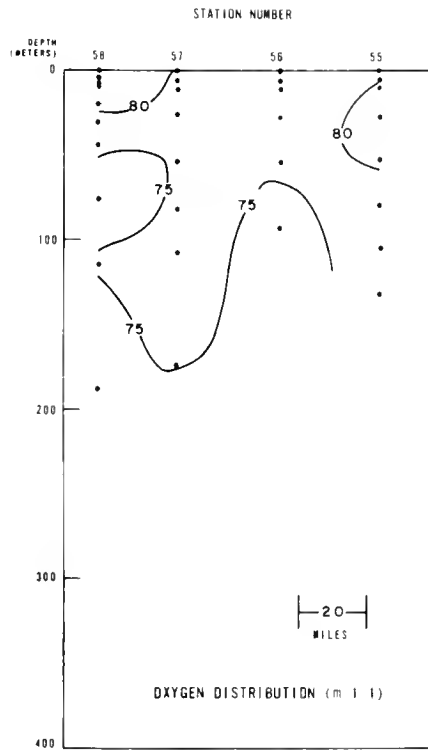


Figure 38. Vertical Distribution of Oxygen, Stations 55 through 58.

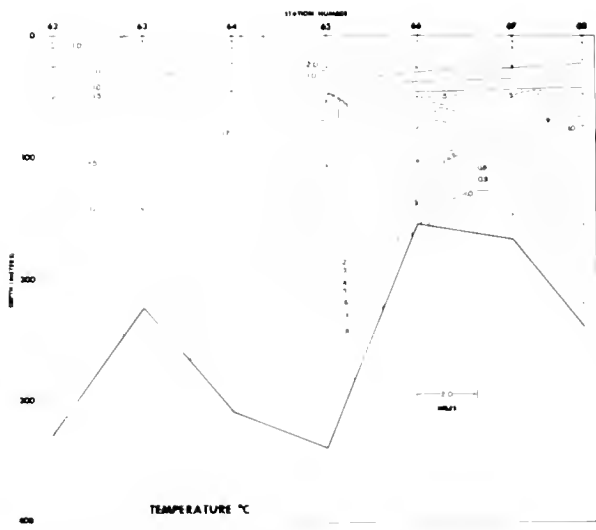


Figure 39. Vertical Distribution of Temperature, Stations 62 through 68.

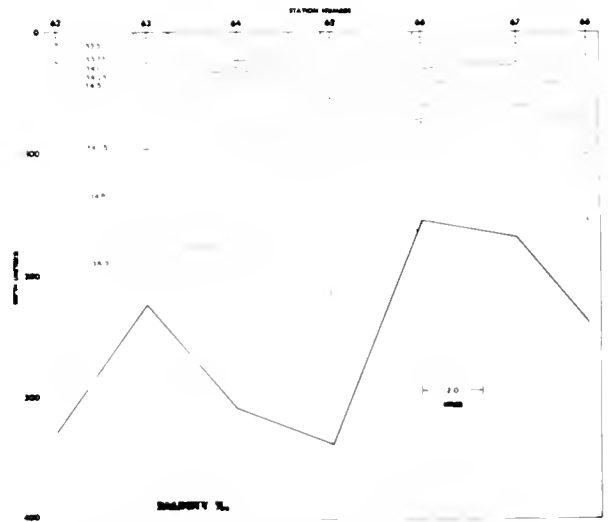


Figure 40. Vertical Distribution of Salinity, Stations 62 through 68.

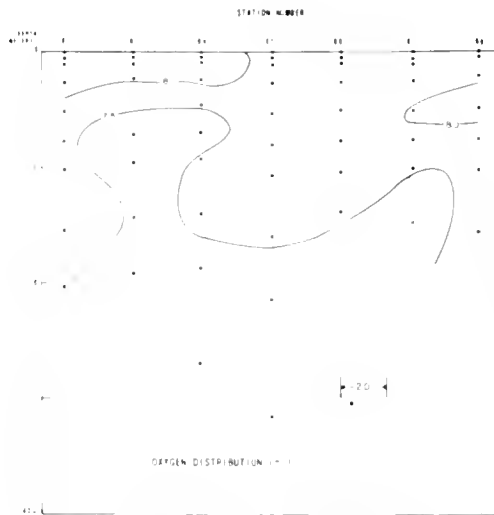


Figure 41. Vertical Distribution of Oxygen, Stations 62 through 68.

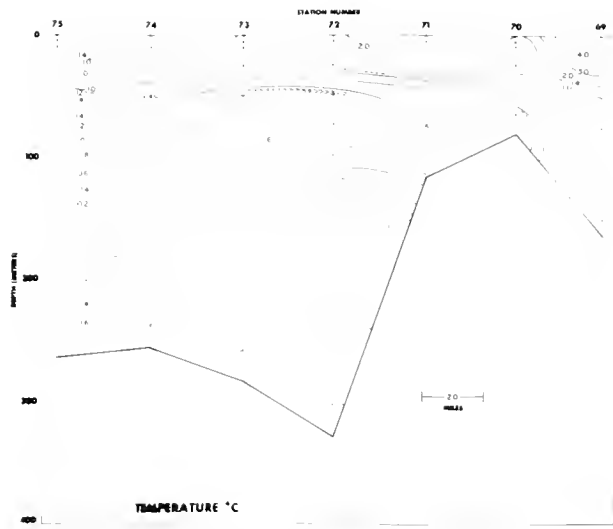


Figure 42. Vertical Distribution of Temperature, Stations 69 through 75.

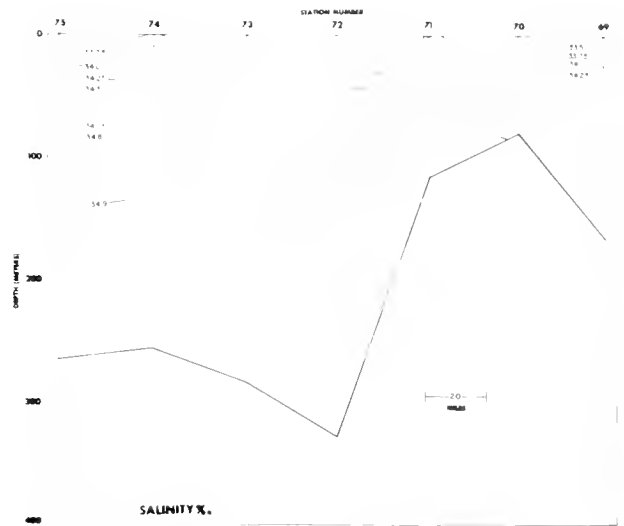


Figure 43. Vertical Distribution of Salinity, Stations 69 through 75.

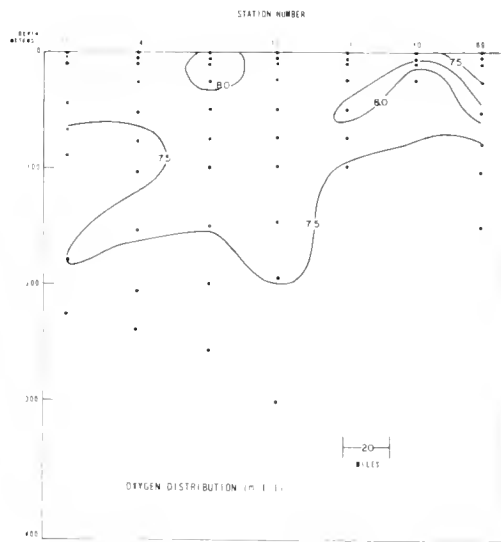


Figure 44. Vertical Distribution of Oxygen, Stations 69 through 75.

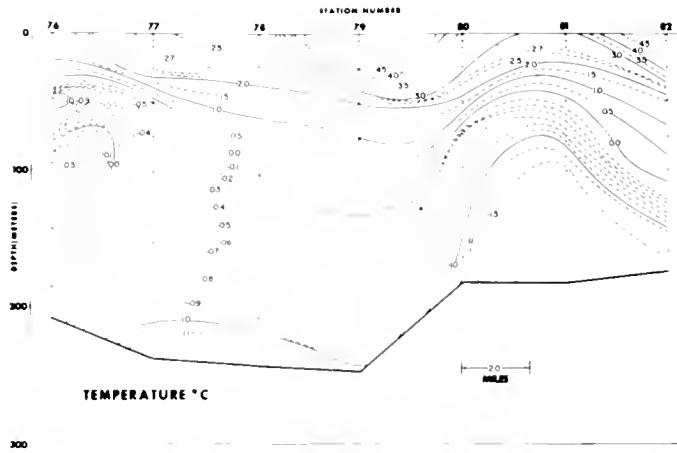
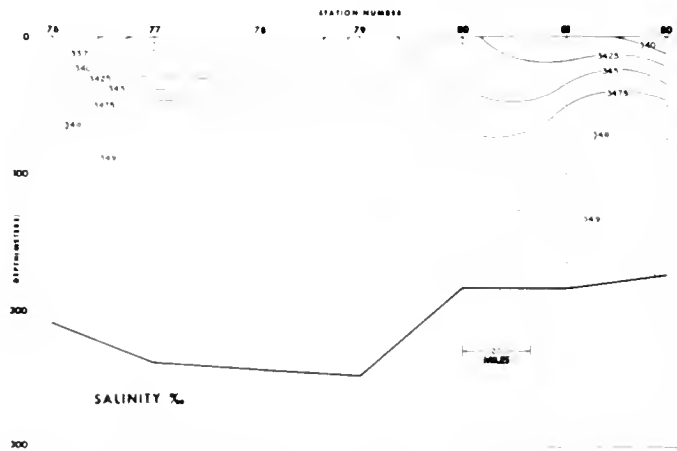


Figure 45. Vertical Distribution of Temperature, Stations 76 through 82.



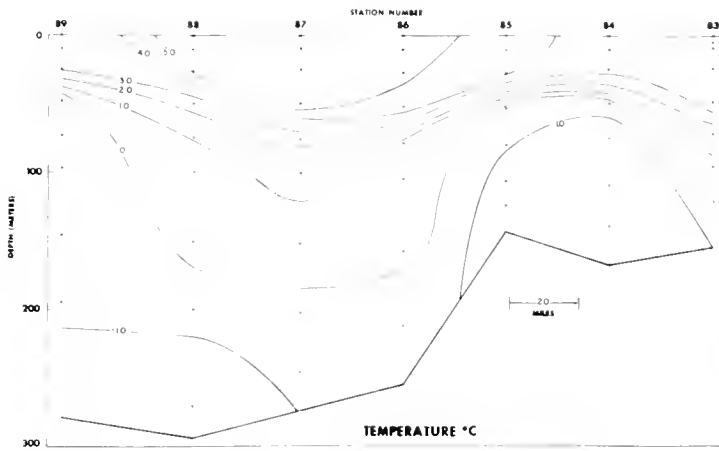


Figure 48. Vertical Distribution of Temperature, Stations 83 through 89.

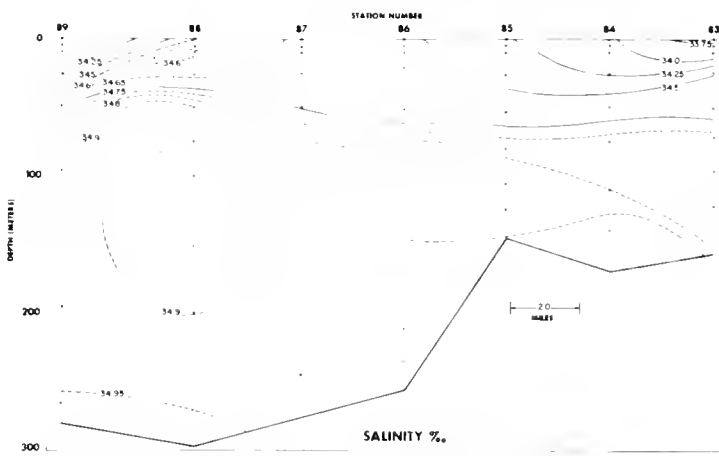


Figure 49. Vertical Distribution of Salinity, Stations 83 through 89.

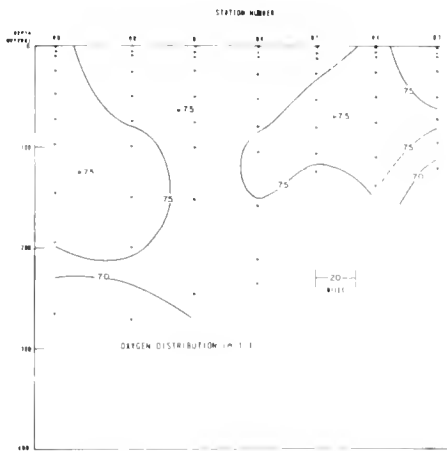


Figure 50. Vertical Distribution of Oxygen, Stations 83 through 89.

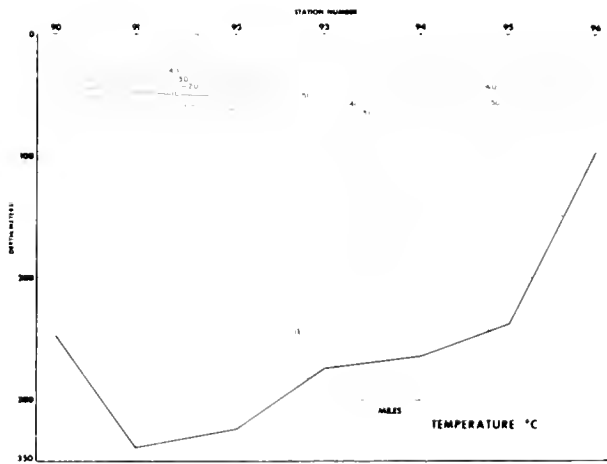


Figure 51. Vertical Distribution of Temperature, Stations 90 through 96.

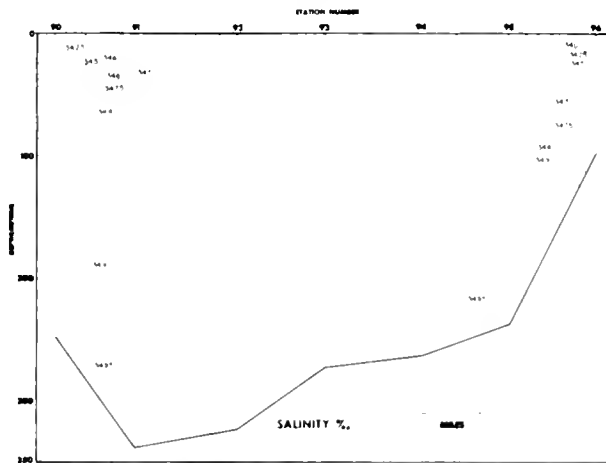


Figure 52. Vertical Distribution of Salinity, Stations 90 through 96.

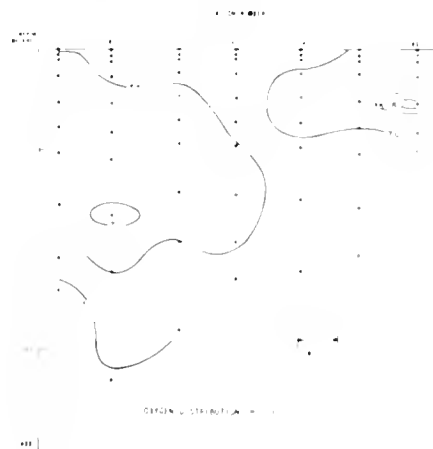


Figure 53. Vertical Distribution of Oxygen, Stations 90 through 96.

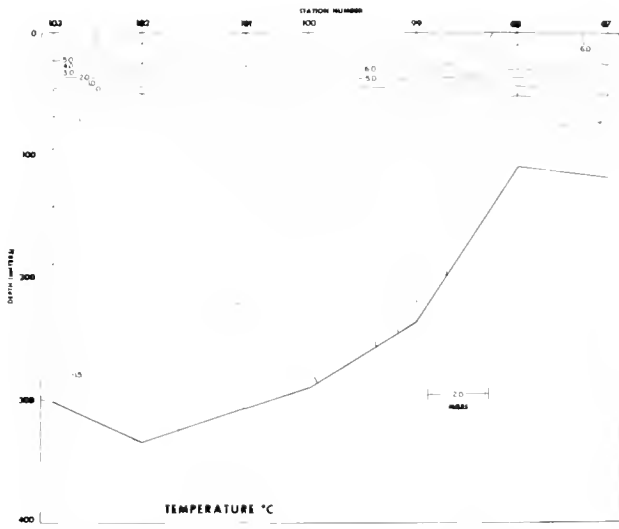


Figure 54. Vertical Distribution of Temperature, Stations 97 through 103.

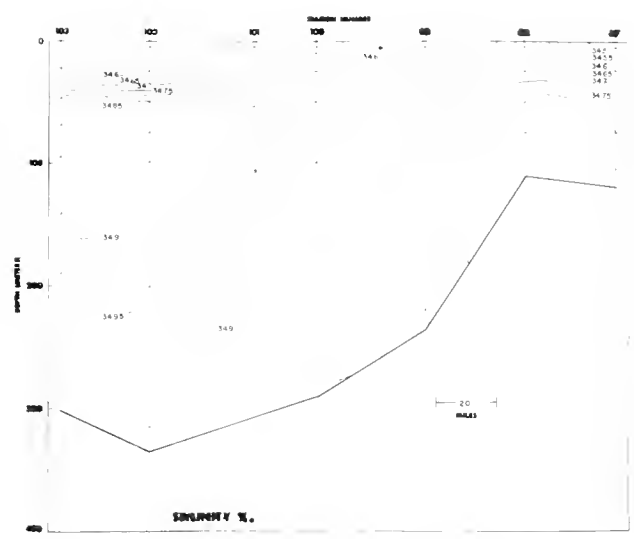


Figure 55. Vertical Distribution of Salinity, Stations 97 through 103.

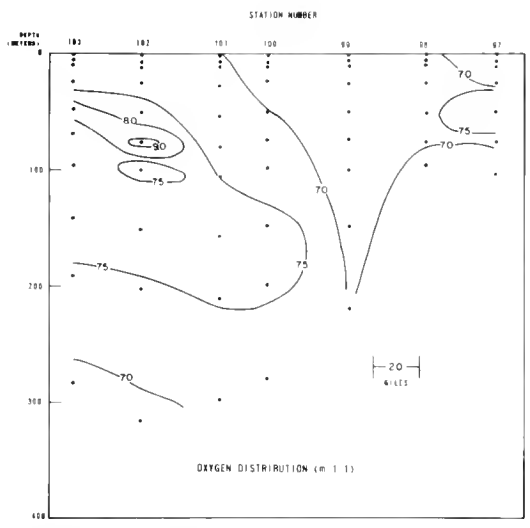


Figure 56. Vertical Distribution of Oxygen, Stations 97 through 103.

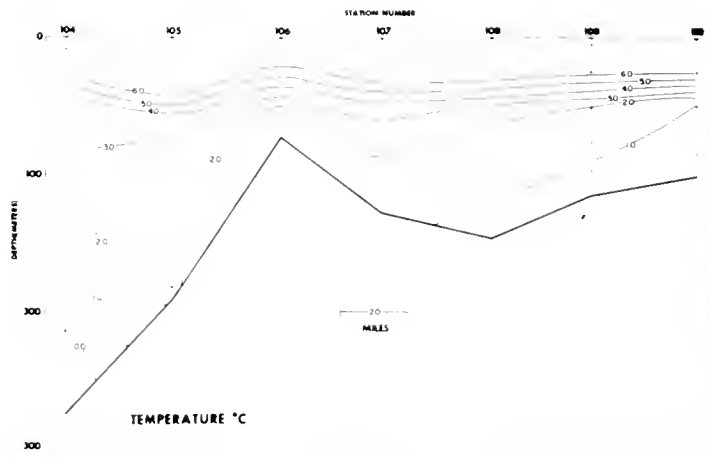


Figure 57. Vertical Distribution of Temperature, Stations 104 through 110.

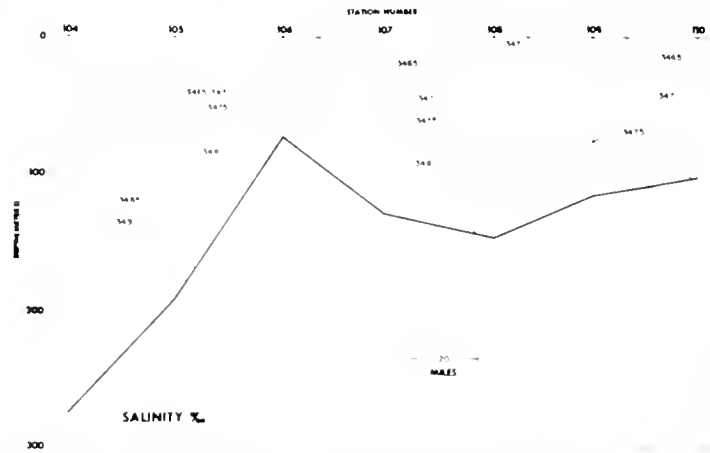


Figure 58. Vertical Distribution of Salinity, Stations 104 through 110.

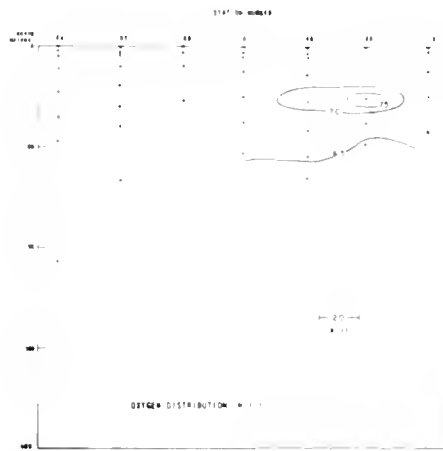


Figure 59. Vertical Distribution of Oxygen, Stations 104 through 110.

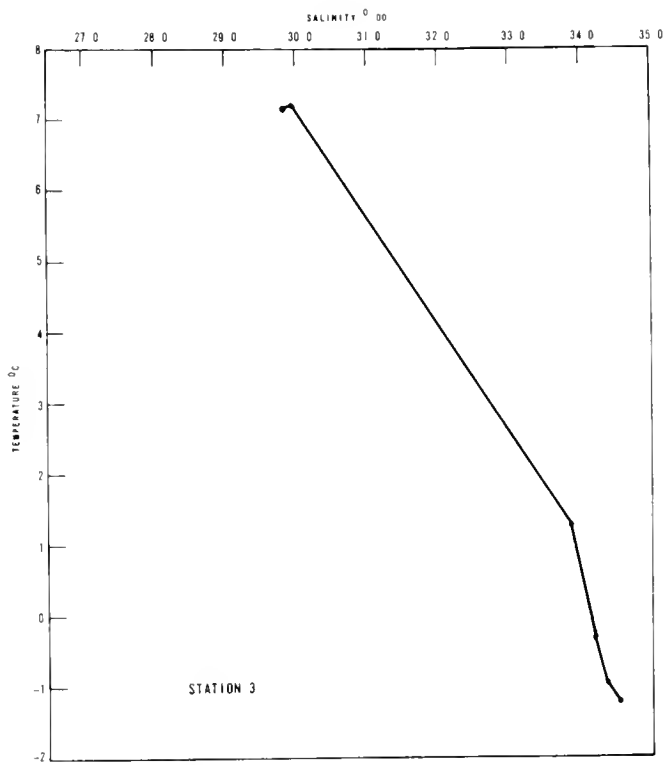


Figure 60. T-S Plot, Station 3.

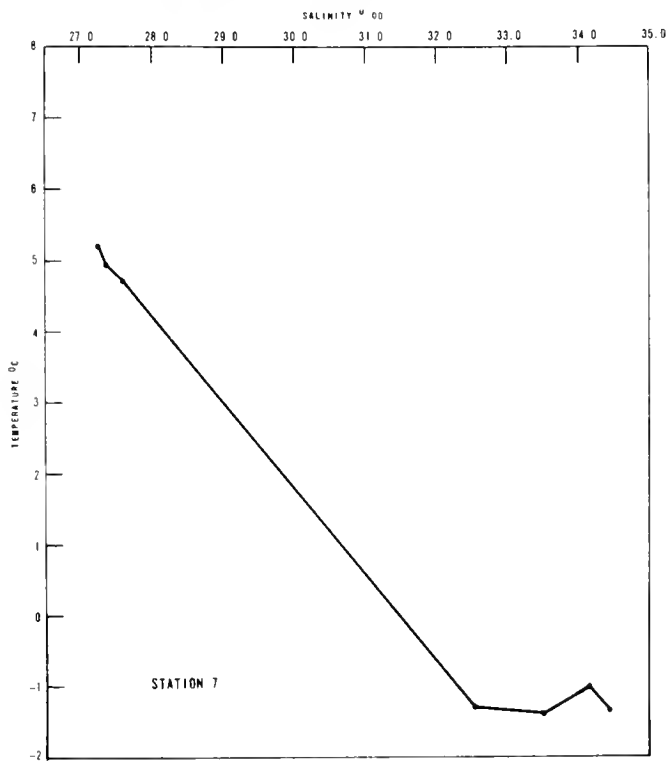


Figure 61. T-S Plot, Station 7.

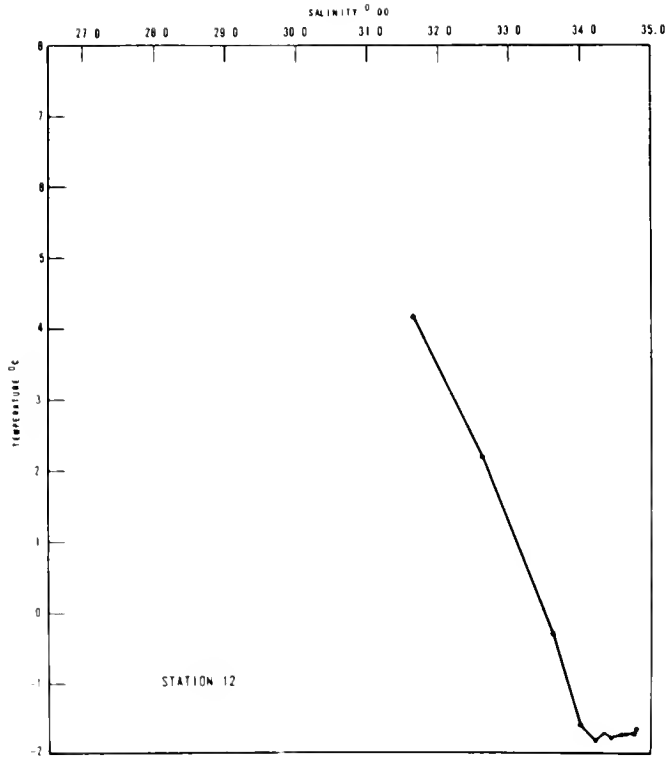


Figure 62. T-S Plot, Station 12.

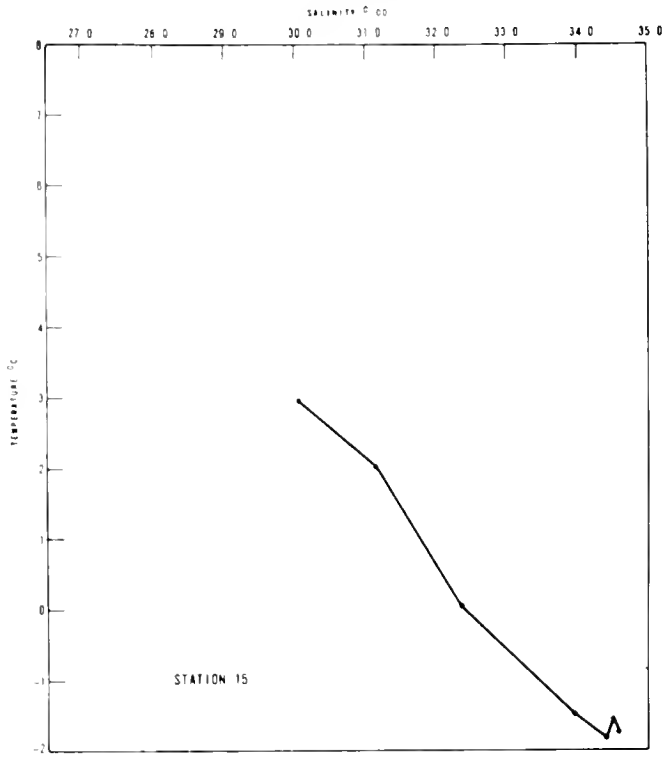


Figure 63. T-S Plot, Station 15.

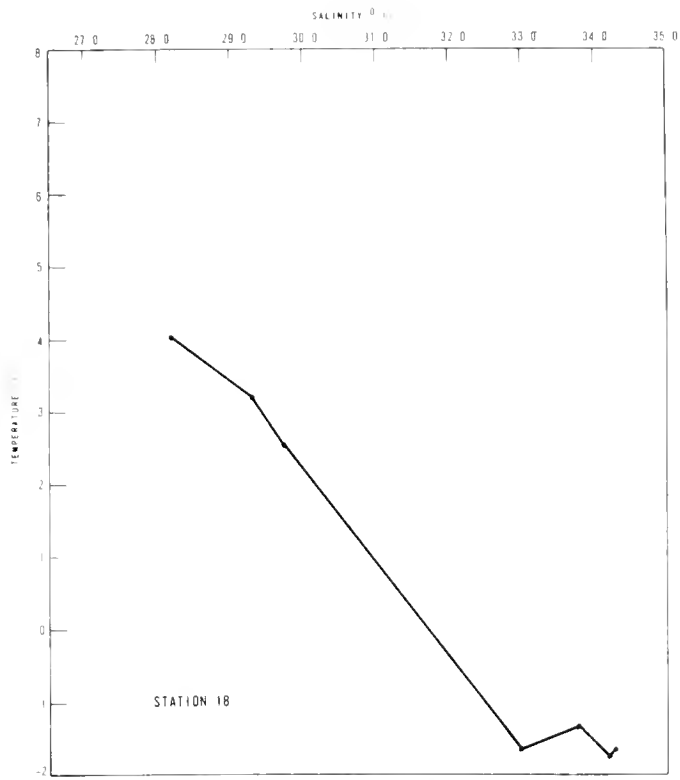


Figure 64. T-S Plot, Station 18.

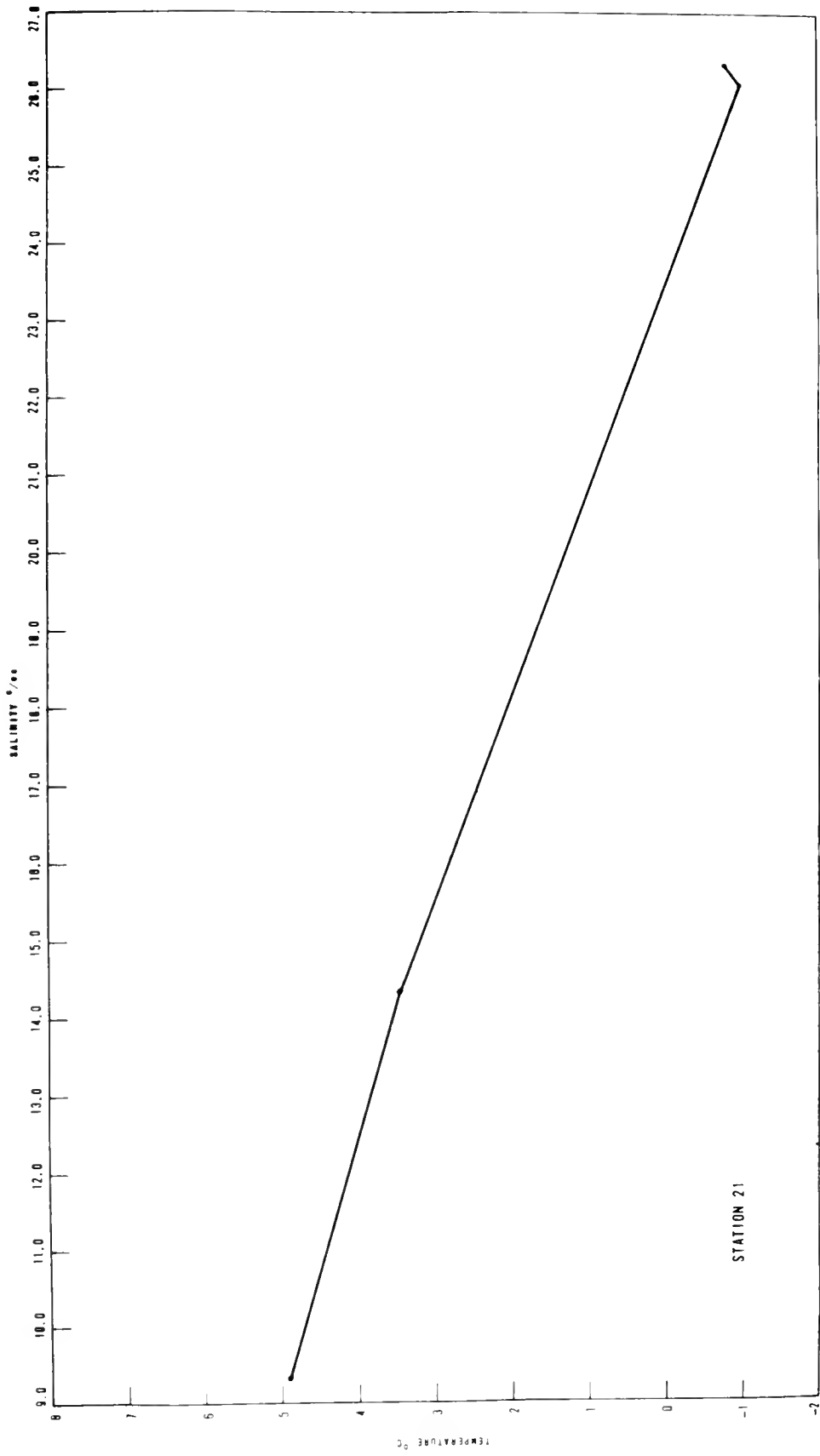


Figure 65. T-S Plot, Station 21.

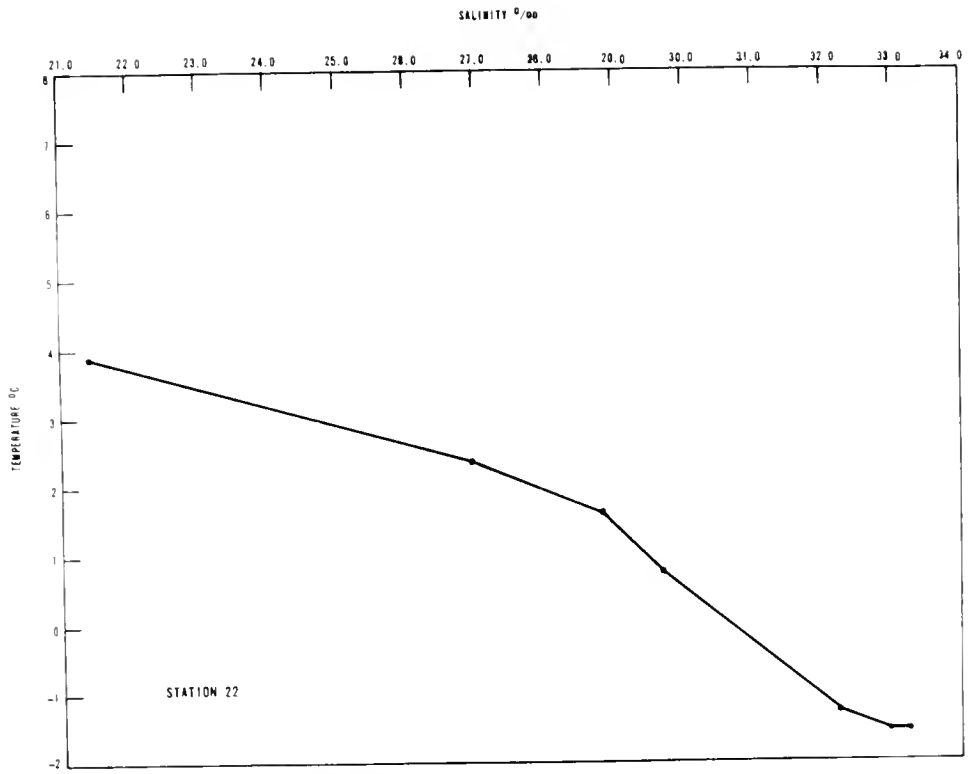


Figure 66. T-S Plot, Station 22.

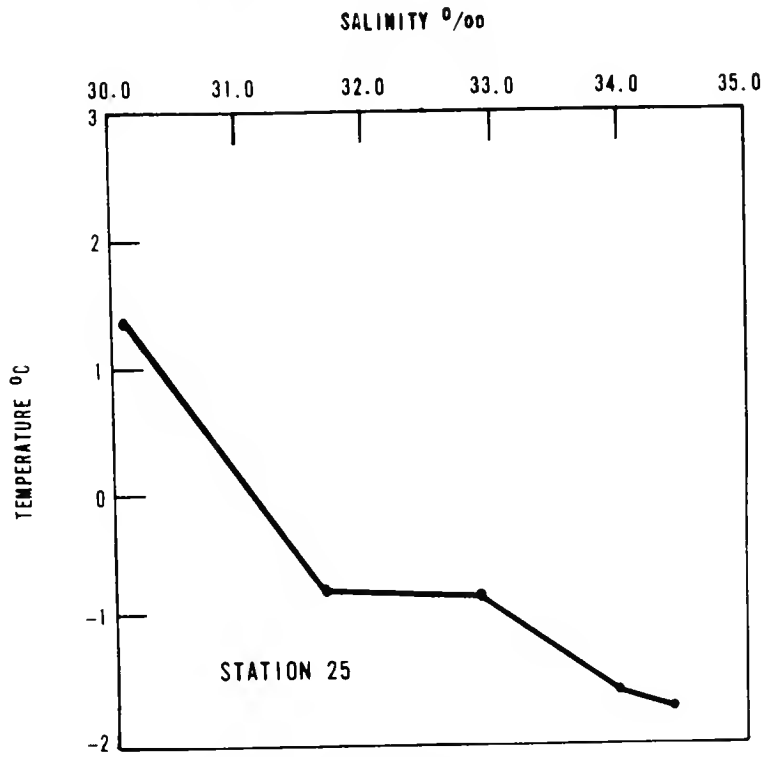


Figure 67. T-S Plot, Station 25.

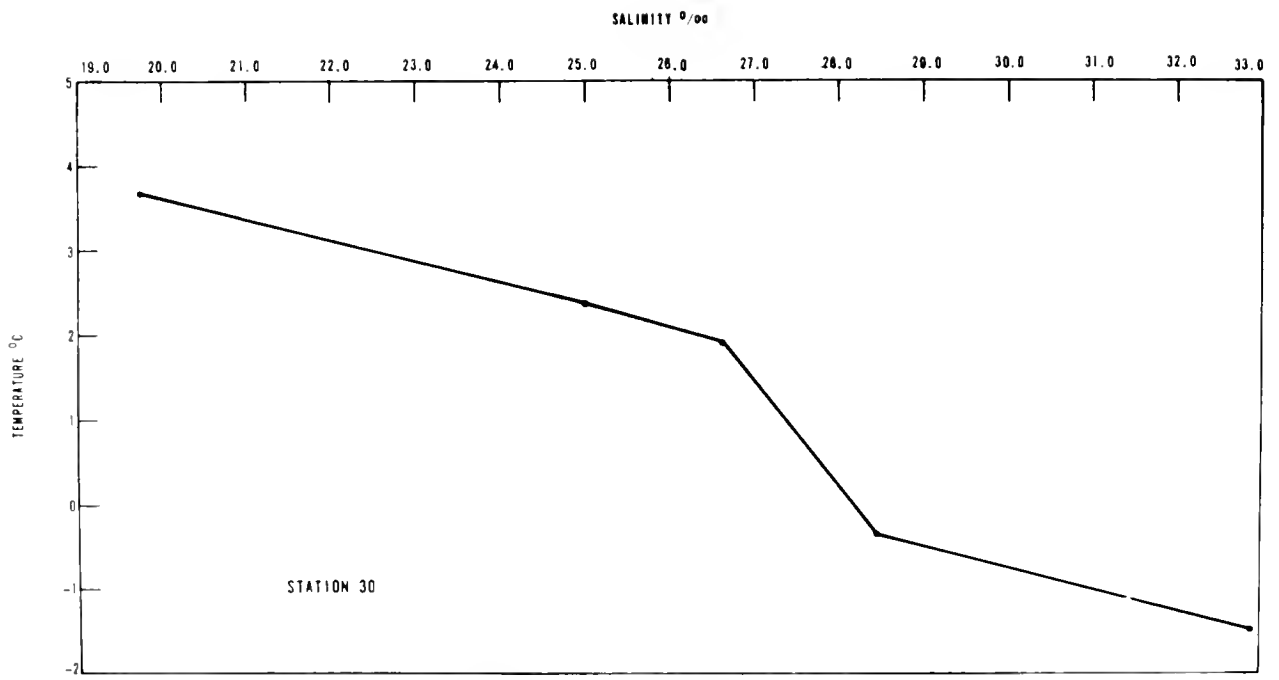


Figure 68. T-S Plot, Station 30.

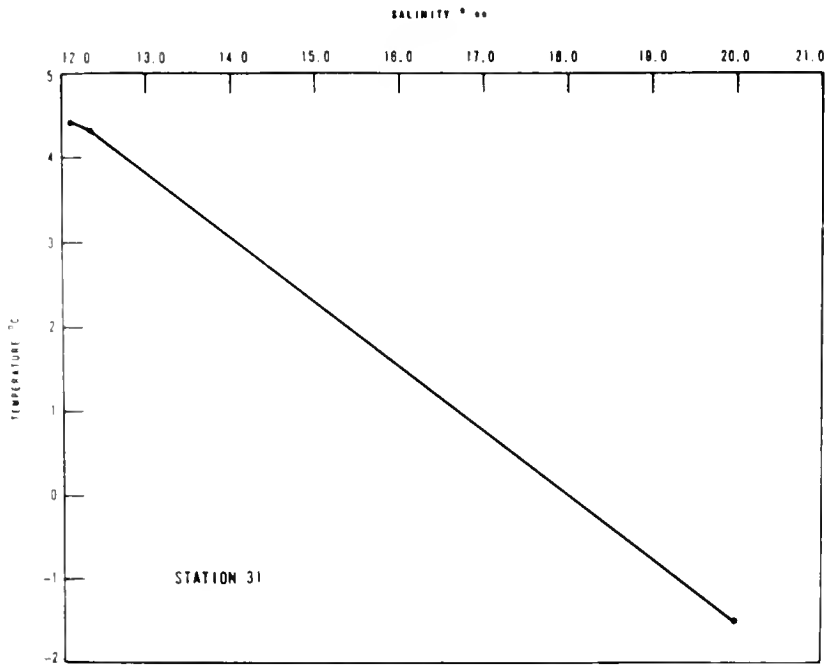


Figure 69. T-S Plot, Station 31.

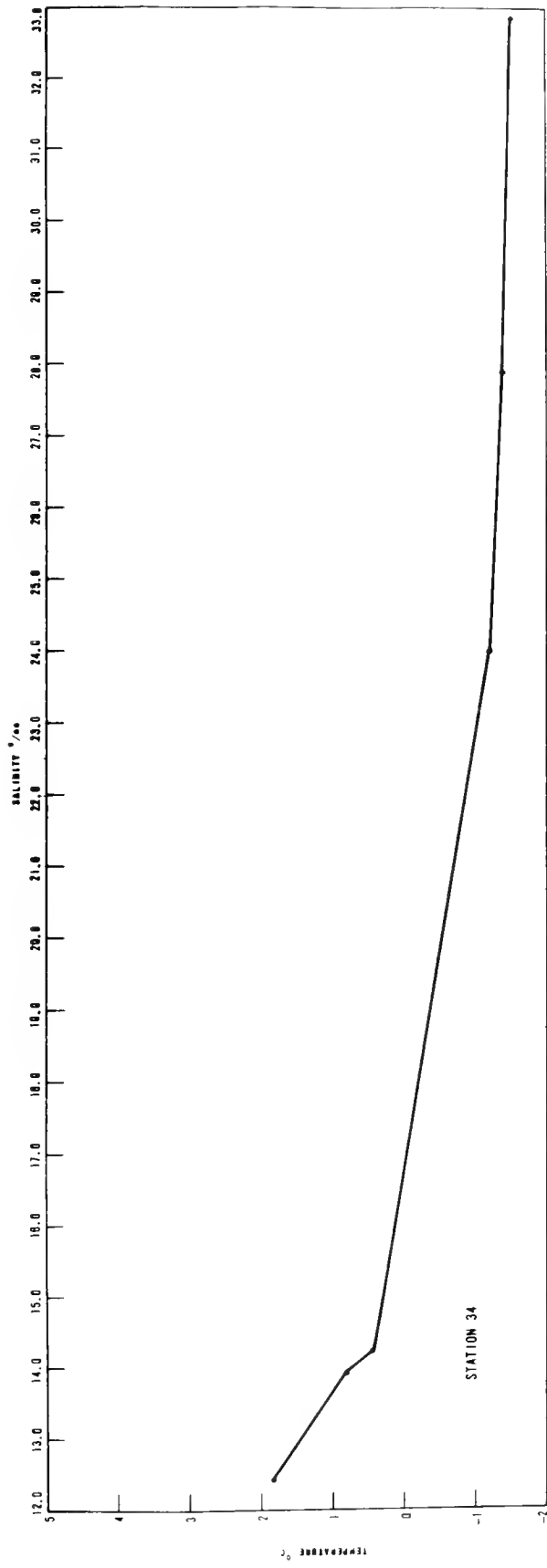


Figure 70. T-S Plot, Station 34.

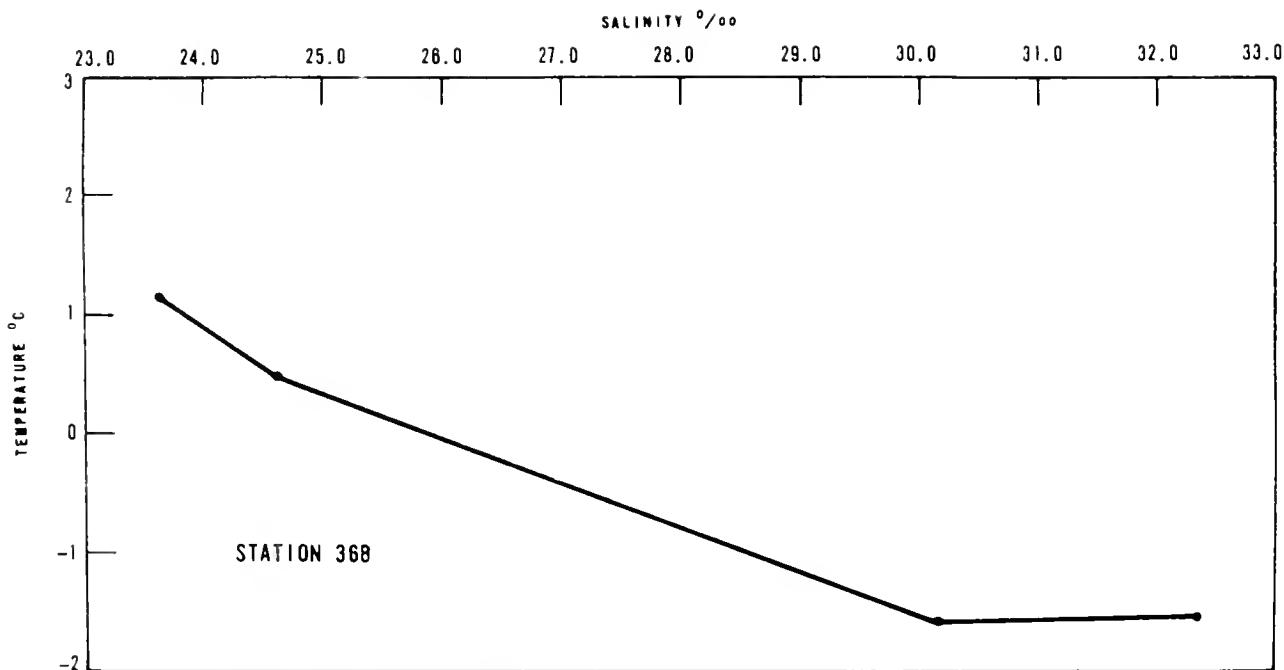


Figure 71. T-S Plot, Station 36B.

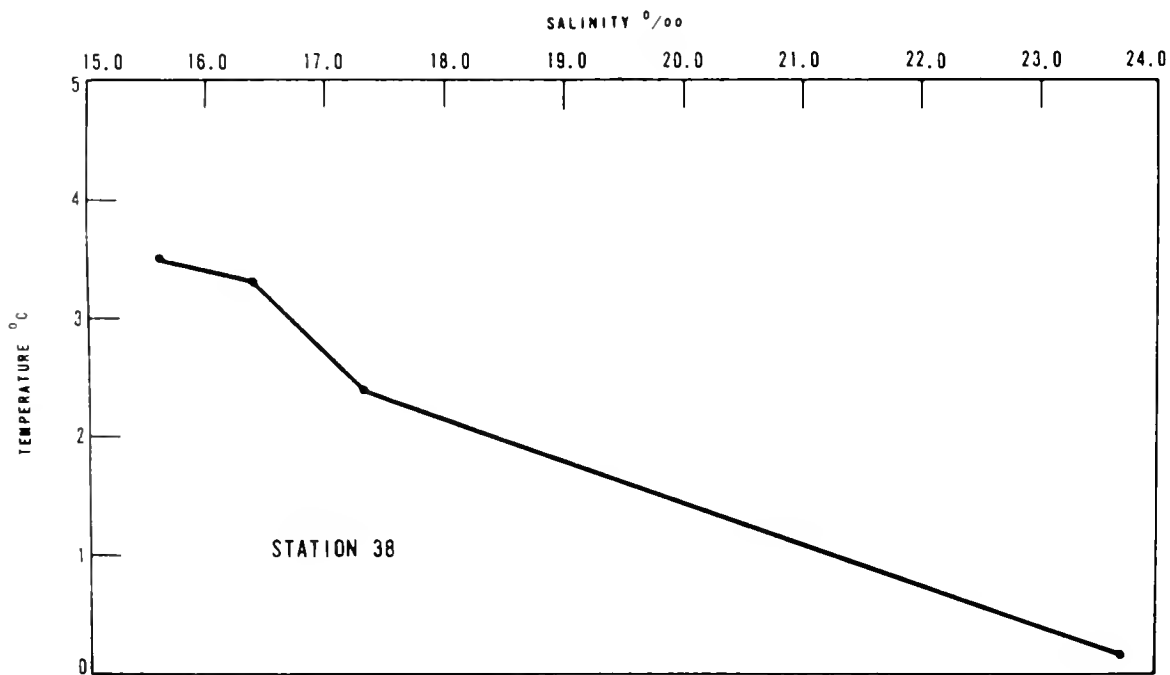


Figure 72. T-S Plot, Station 38.

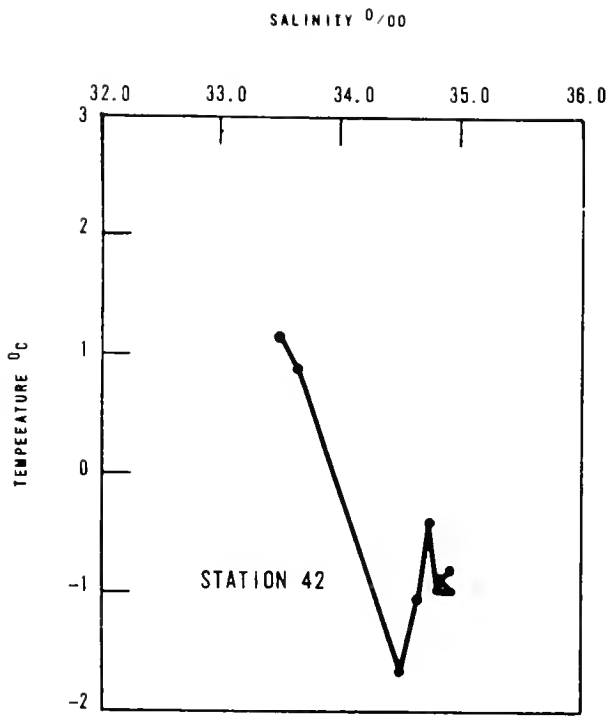


Figure 73. T-S Plot, Station 42.

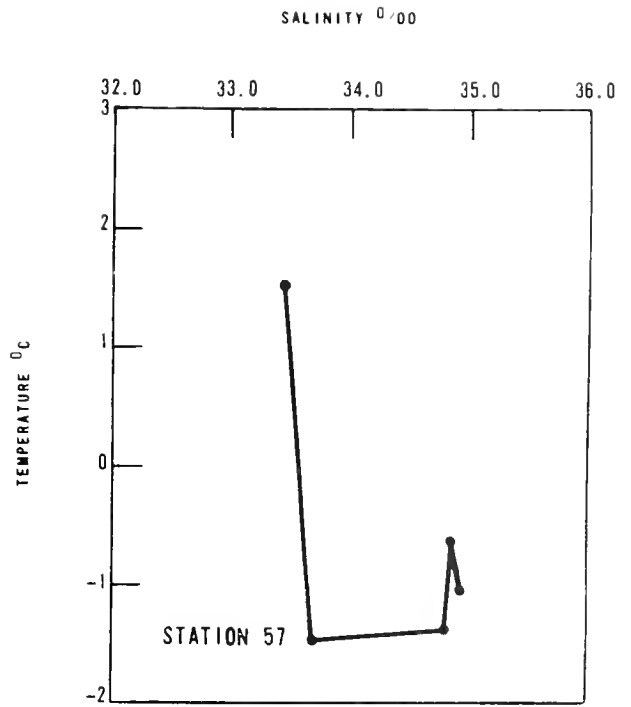


Figure 74. T-S Plot, Station 57.

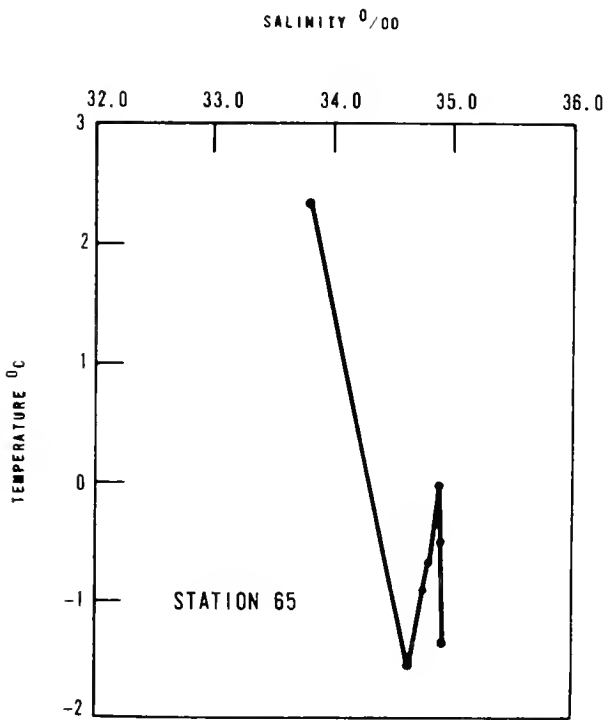


Figure 75. T-S Plot, Station 65.

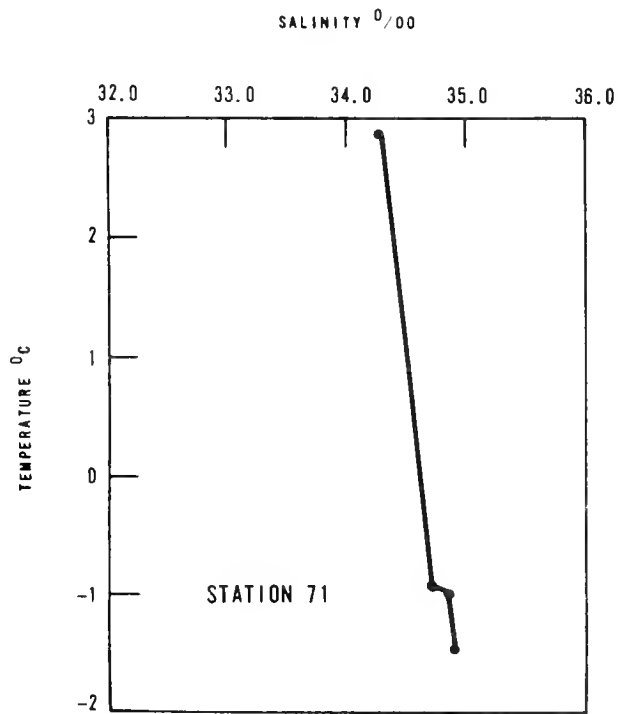


Figure 76. T-S Plot, Station 71.

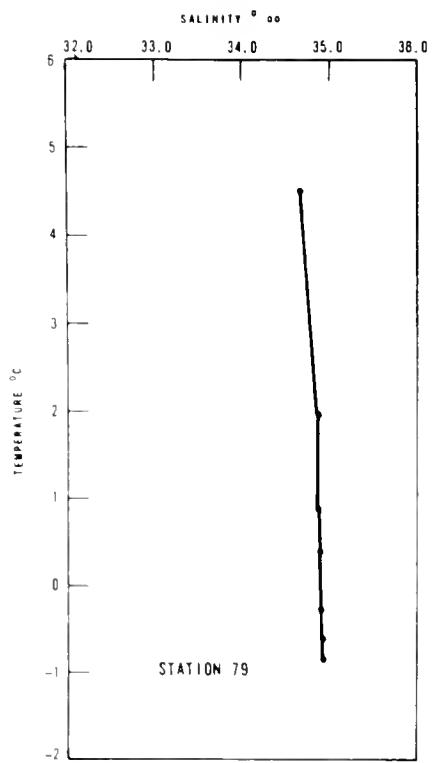


Figure 77. T-S Plot, Station 79.

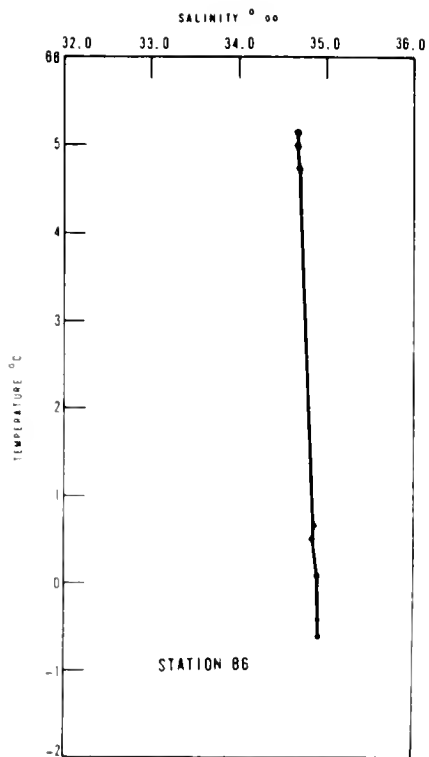


Figure 78. T-S Plot, Station 86.

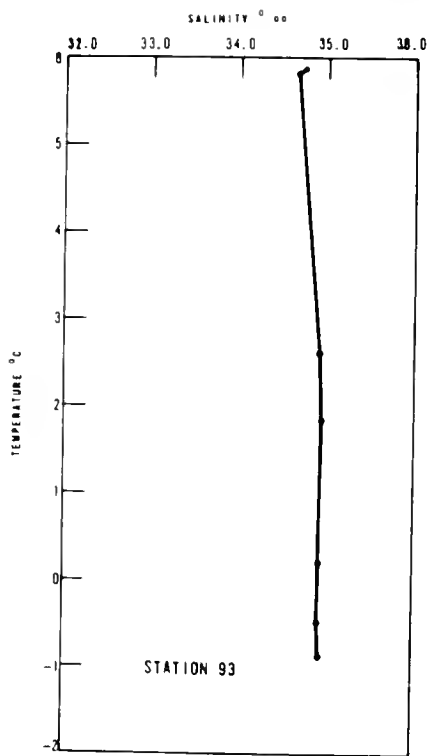


Figure 79. T-S Plot, Station 93.

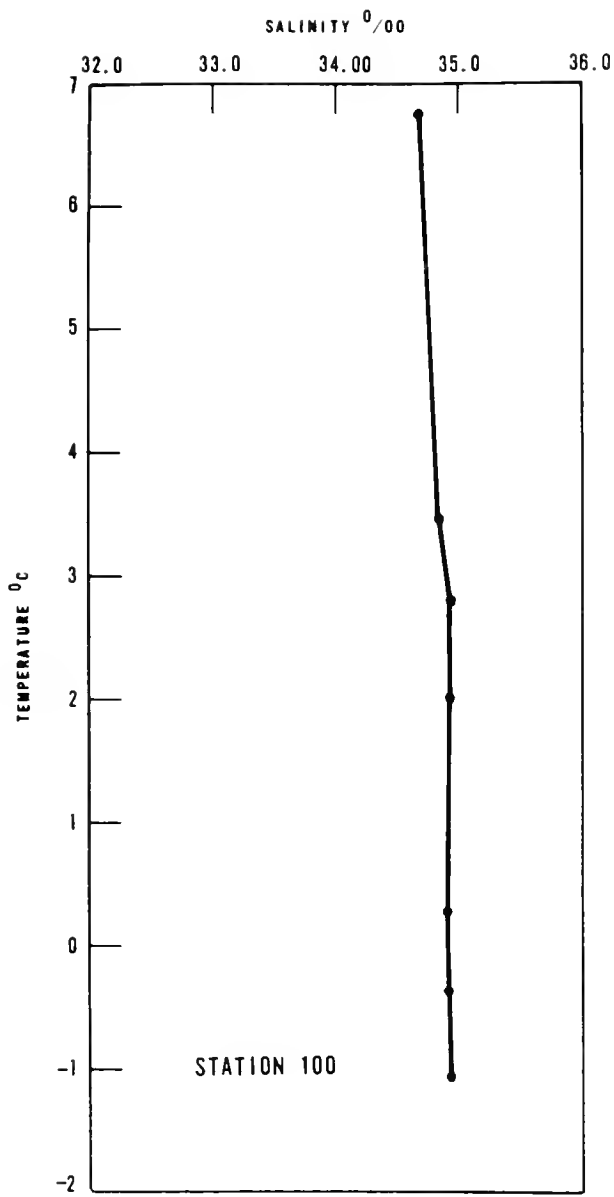


Figure 80. T-S Plot, Station 100.

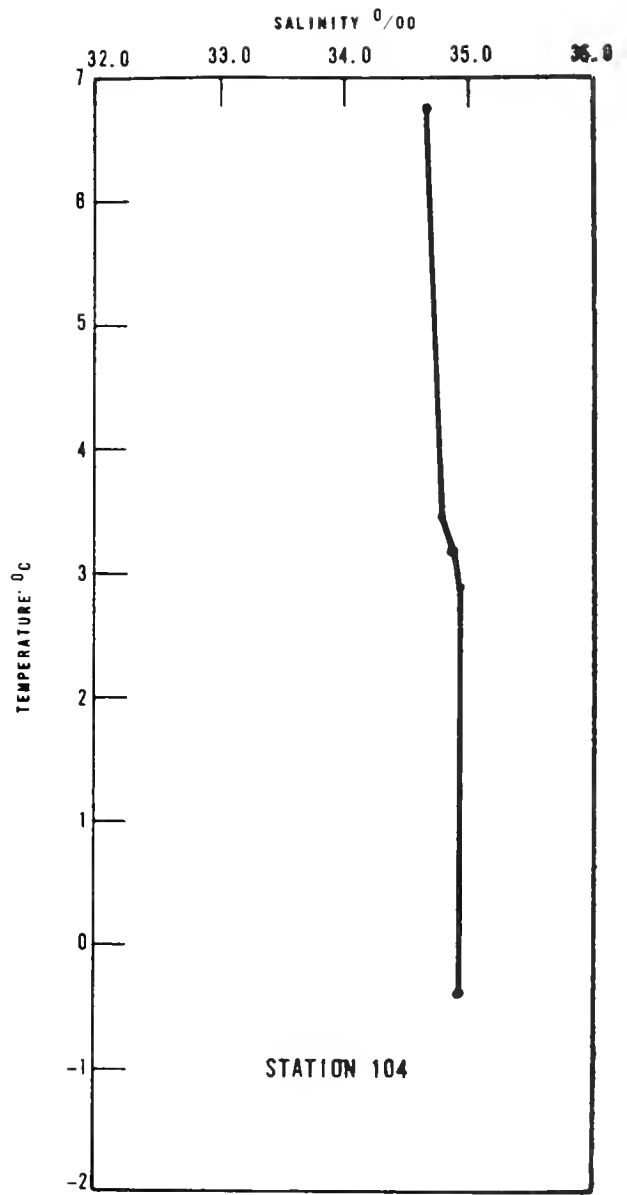


Figure 81. T-S Plot, Station 104.

| 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 SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NOOC STATION NUMBER |
|-------------------------|-----------|-----------|--------------------|---------------------|----------------|-----------------|---|-----------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|-------------------|--------|-----|------|--------------|-------------|-----|---------------------|
| CTRY CODE | ID. NO. | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | SEA | | TYPE | AMT | |
| 311 | 165 | ED | 73495N | 018570E | 287 | 38 | 08 | 17 | 151 | 1967 | 001 | 0248 | 02 | 21 | 1 | 45 | X | 9 | 0001 | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS (m) | DIR. | SPEED OR FORCE | IMBst | DRY BULB | WET BULB | VIS CODE | NO. OBS. DEPTHS | | | | | | | | | | | | | | | |
| 06 | 10 | 00 | 500 | 025 | 122 | 119 | 3 | 09 | | | | | | | | | | | | | | | |
| MESSAGE TIME of HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | ± Δ σ 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 | SiO ₄ -Si μg - dl/l | pH | S.C.C. | | | | | | |
| | | STD | 0000 | 0553 | 3464 | 2735 | 0007360 | 0000 | 14727 | 738 | | | | | | | | | | | | | |
| 151 | | OBS | 0000 | 0553 | 34641 | 2735 | | | 14727 | 738 | | | | | | | | | | | | | |
| 151 | | OBS | 0005 | 0541 | 34635 | 2736 | | | 14723 | 746 | | | | | | | | | | | | | |
| | | STD | 0010 | 0512 | 3473 | 2747 | 0006261 | 0007 | 14713 | 745 | | | | | | | | | | | | | |
| 151 | | OBS | 0010 | 0512 | 34727 | 2747 | | | 14713 | 745 | | | | | | | | | | | | | |
| | | STD | 0020 | 0494 | 3475 | 2751 | 0005401 | 0013 | 14708 | 758 | | | | | | | | | | | | | |
| 151 | | OBS | 0025 | 0471 | 34767 | 2755 | | | 14699 | 760 | | | | | | | | | | | | | |
| | | STD | 0030 | 0433 | 3480 | 2765 | 0004580 | 0018 | 14674 | 750 | | | | | | | | | | | | | |
| | | STD | 0050 | 0214 | 3491 | 2791 | 0002100 | 0025 | 14596 | 721 | | | | | | | | | | | | | |
| 151 | | OBS | 0050 | 0214 | 34907 | 2791 | | | 14596 | 721 | | | | | | | | | | | | | |
| | | STD | 0075 | 0170 | 3495 | 2797 | 0001490 | 0029 | 14581 | 712 | | | | | | | | | | | | | |
| 151 | | OBS | 0075 | 0170 | 34945 | 2797 | | | 14581 | 712 | | | | | | | | | | | | | |
| | | STD | 0100 | 0178 | 34983 | 2800 | 0001274 | 0033 | 14589 | 705 | | | | | | | | | | | | | |
| 151 | | OBS | 0100 | 0178 | 34983 | 2800 | | | 14589 | 705 | | | | | | | | | | | | | |
| | | STD | 0125 | 0146 | 3498 | 2802 | 0001056 | 0036 | 14579 | 710 | | | | | | | | | | | | | |
| | | STD | 0150 | 0127 | 3498 | 2803 | 0000937 | 0038 | 14575 | 715 | | | | | | | | | | | | | |
| 151 | | OBS | 0151 | 0126 | 34981 | 2803 | | | 14575 | 715 | | | | | | | | | | | | | |
| | | STD | 0200 | 0126 | 3498 | 2804 | 0000931 | 0043 | 14583 | 709 | | | | | | | | | | | | | |
| 151 | | OBS | T0201 | 0126 | 34983 | 2804 | | | 14583 | 709 | | | | | | | | | | | | | |

| 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 SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NOOC STATION NUMBER |
|-------------------------|-----------|-----------|--------------------|---------------------|----------------|-----------------|---|-----------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|-------------------|--------|-----|------|--------------|-------------|-----|---------------------|
| CTRY CODE | ID. NO. | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | SEA | | TYPE | AMT | |
| 311 | 165 | ED | 755124 | 030340E | 285 | 50 | 08 | 18 | 095 | 1967 | 002 | 2363 | 03 | 02 | 1 | 45 | X | 9 | 0002 | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS (m) | DIR. | SPEED OR FORCE | IMBst | DRY BULB | WET BULB | VIS CODE | NO. OBS. DEPTHS | | | | | | | | | | | | | | | |
| 06 | 14 | 00 | 500 | 024 | 072 | 061 | 4 | 10 | | | | | | | | | | | | | | | |
| MESSAGE TIME of HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | ± Δ σ 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 | SiO ₄ -Si μg - dl/l | pH | S.C.C. | | | | | | |
| | | STD | 0000 | 0587 | 3486 | 2748 | 0006122 | 0000 | 14744 | 715 | | | | | | | | | | | | | |
| 075 | | OBS | 0000 | 0587 | 3486 | 2748 | | | 14744 | 715 | | | | | | | | | | | | | |
| 095 | | OBS | 0005 | 0581 | 3490 | 2751 | | | 14744 | 717 | | | | | | | | | | | | | |
| | | STD | 0010 | 0542 | 3490 | 2752 | 0005800 | 0008 | 14744 | 712 | | | | | | | | | | | | | |
| 095 | | OBS | 0010 | 0532 | 3487 | 2752 | | | 14744 | 712 | | | | | | | | | | | | | |
| | | STD | 0020 | 0525 | 3495 | 2754 | 0004875 | 0011 | 14723 | 704 | | | | | | | | | | | | | |
| | | STD | 0030 | 0473 | 3500 | 2773 | 0003809 | 0015 | 14704 | 696 | | | | | | | | | | | | | |
| 095 | | OBS | 0034 | 0454 | 3501 | 2776 | | | 14697 | 693 | | | | | | | | | | | | | |
| | | STD | 0050 | 0380 | 3504 | 2786 | 0002567 | 0022 | 14669 | 708 | | | | | | | | | | | | | |
| 095 | | OBS | 0050 | 0356 | 3504 | 2789 | | | 14660 | 713 | | | | | | | | | | | | | |
| | | STD | 0075 | 0344 | 3505 | 2791 | 0002147 | 0028 | 14658 | 714 | | | | | | | | | | | | | |
| 095 | | OBS | 0082 | 0338 | 3505 | 2792 | | | 14657 | 714 | | | | | | | | | | | | | |
| | | STD | 0100 | 0316 | 3504 | 2794 | 0001773 | 0033 | 14650 | 710 | | | | | | | | | | | | | |
| 095 | | OBS | 0107 | 0309 | 3505 | 2794 | | | 14648 | 709 | | | | | | | | | | | | | |
| | | STD | 0125 | 0247 | 3506 | 2795 | 0001727 | 0037 | 14646 | 708 | | | | | | | | | | | | | |
| | | STD | 0150 | 0278 | 3506 | 2797 | 0001582 | 0041 | 14642 | 707 | | | | | | | | | | | | | |
| 095 | | OBS | 0155 | 0274 | 3505 | 2797 | | | 14641 | 707 | | | | | | | | | | | | | |
| | | STD | 0200 | 0231 | 3505 | 2801 | 0001238 | 0046 | 14630 | 704 | | | | | | | | | | | | | |
| 095 | | OBS | 0205 | 0223 | 3505 | 2801 | | | 14627 | 704 | | | | | | | | | | | | | |
| | | STD | 0250 | 0114 | 3501 | 2807 | 0000557 | 0053 | 14586 | 704 | | | | | | | | | | | | | |
| 095 | | OBS | T0282 | 0001 | 34971 | 2810 | | | 14540 | 704 | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF STAMPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER | |
|------------------------|---------|-----------|------------------|-------------------|-----------------|----------------|------------|--------------------|----------------|-----------------|--------------|--------------|----------------|-----------------|------------------------|-------------------|---------|-----|--------------|-------------------------|---------------------|------|
| | | | | | | 10' | 1' | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT PER | SEA | | | | |
| 311165 | ED | | 76540N | 045550E | | 284 | 65 | 08 | 19 | 049 | 1967 | | 003 | 0272 | 02 | 99 | 1 | | 47 | X | 9 | 0003 |
| | | | | | | 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 | | | | | | | | | | |
| | | | | | | 05 | 21 | 00 | 500 | 995 | 022 | 022 | 0 | 10 | | | | | | | | |

| MESSAGE 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 | 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 | 0172 | 3366 | 2694 | 0011224 | 0000 | 14552 | 798 | | | | | | | |
| 040 | | OBS | 0000 | 0172 | 33659 | 2694 | | | 14552 | 798 | | | | | | | |
| 040 | | OBS | 0005 | 0171 | 33665 | 2695 | | | 14552 | 795 | | | | | | | |
| 040 | | OBS | 0009 | 0156 | 33718 | 2700 | | | 14547 | 801 | | | | | | | |
| | | STD | 0010 | 0156 | 3374 | 2702 | 0010504 | 0011 | 14548 | 802 | | | | | | | |
| | | STD | 0020 | 0158 | 3400 | 2722 | 0008947 | 0020 | 14554 | 809 | | | | | | | |
| 040 | | OBS | 0024 | 0159 | 34103 | 2731 | | | 14556 | 812 | | | | | | | |
| | | STD | 0030 | 0034 | 3427 | 2752 | 0005740 | 0028 | 14503 | 789 | | | | | | | |
| 040 | | OBS | 0047 | -0164 | 34628 | 2789 | | | 14419 | 752 | | | | | | | |
| | | STD | 0050 | -0141 | 3466 | 2791 | 0002012 | 0035 | 14431 | 755 | | | | | | | |
| 040 | | OBS | 0071 | -0049 | 34833 | 2802 | | | 14480 | 769 | | | | | | | |
| | | STD | 0075 | -0060 | 3484 | 2803 | 0000932 | 0039 | 14476 | 760 | | | | | | | |
| 040 | | OBS | 0095 | -0094 | 34857 | 2805 | | | 14463 | 762 | | | | | | | |
| | | STD | 0100 | -0086 | 3486 | 2805 | 0000564 | 0041 | 14468 | 760 | | | | | | | |
| | | STD | 0125 | -0058 | 3490 | 2807 | 0000475 | 0042 | 14486 | 756 | | | | | | | |
| 040 | | OBS | 0144 | -0050 | 34912 | 2808 | | | 14493 | 749 | | | | | | | |
| | | STD | 0150 | -0058 | 3491 | 2808 | 0000371 | 0043 | 14490 | 750 | | | | | | | |
| 040 | | OBS | 0191 | -0076 | 34923 | 2810 | | | 14489 | 756 | | | | | | | |
| | | STD | 0200 | -0071 | 3494 | 2811 | 0000096 | 0045 | 14493 | 744 | | | | | | | |
| 040 | | OBS | T0215 | -0057 | 34967 | 2813 | | | 14502 | 715 | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF STAMPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER | |
|------------------------|---------|-----------|------------------|-------------------|-----------------|----------------|------------|--------------------|----------------|-----------------|--------------|--------------|----------------|-----------------|------------------------|-------------------|---------|-----|--------------|-------------------------|---------------------|------|
| | | | | | | 10' | 1' | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT PER | SEA | | | | |
| 311165 | ED | | 77218N | 059486E | | 283 | 79 | 08 | 19 | 197 | 1967 | | 004 | 0288 | 02 | 99 | 2 | | 10 | X | 9 | 0004 |
| | | | | | | 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 | | | | | | | | | | |
| | | | | | | 05 | 10 | 00 | 500 | 037 | 017 | 017 | 4 | 10 | | | | | | | | |

| MESSAGE 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 | 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 | 0154 | 3319 | 2658 | 0014664 | 0000 | 14537 | 801 | | | | | | | |
| 197 | | OBS | 0000 | 0154 | 33190 | 2658 | | | 14537 | 801 | | | | | | | |
| 197 | | OBS | 0005 | 0154 | 33190 | 2658 | | | 14538 | 803 | | | | | | | |
| | | STD | 0010 | 0151 | 3320 | 2659 | 0014570 | 0015 | 14538 | 815 | | | | | | | |
| 197 | | OBS | 0010 | 0151 | 33200 | 2659 | | | 14538 | 815 | | | | | | | |
| | | STD | 0020 | -0020 | 3409 | 2740 | 0006046 | 0025 | 14474 | 853 | | | | | | | |
| 197 | | OBS | 0024 | -0069 | 34339 | 2763 | | | 14456 | 858 | | | | | | | |
| | | STD | 0030 | -0104 | 3442 | 2770 | 0003982 | 0031 | 14442 | 828 | | | | | | | |
| 197 | | OBS | 0048 | -0141 | 34616 | 2788 | | | 14430 | 760 | | | | | | | |
| | | STD | 0050 | -0128 | 3463 | 2788 | 0002284 | 0037 | 14437 | 755 | | | | | | | |
| 197 | | OBS | 0073 | -0028 | 34762 | 2795 | | | 14489 | 720 | | | | | | | |
| | | STD | 0075 | -0025 | 3477 | 2795 | 0001627 | 0042 | 14491 | 720 | | | | | | | |
| 197 | | OBS | 0098 | -0011 | 34817 | 2798 | | | 14502 | 717 | | | | | | | |
| | | STD | 0100 | -0017 | 3482 | 2799 | 0001283 | 0046 | 14499 | 718 | | | | | | | |
| | | STD | 0125 | -0072 | 3482 | 2802 | 0001022 | 0048 | 14478 | 728 | | | | | | | |
| 197 | | OBS | 0146 | -0098 | 34843 | 2804 | | | 14470 | 730 | | | | | | | |
| | | STD | 0150 | -0097 | 3485 | 2805 | 0000682 | 0051 | 14471 | 728 | | | | | | | |
| 197 | | OBS | 0194 | -0084 | 34929 | 2811 | | | 14485 | 716 | | | | | | | |
| | | STD | 0200 | -0083 | 3494 | 2812 | 0000042 | 0052 | 14487 | 718 | | | | | | | |
| 197 | | OBS | T0247 | -0073 | 34951 | 2812 | | | 14500 | 732 | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | MAGNETIC CORRECTED | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SMPLS | 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 | |
| 311165 | ED | | 77276N | 075280E | | 281 | 75 | 08 | 20 | 123 | 1967 | 005 | | 0227 | 02 | 00 | 0 | | 10 | X | 9 | | 0005 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS. | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | |
| | | | | | | COLOR CODE | TRANS. IMT | DIR. | SPEED OF FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | | | | | | | | | |
| | | | | | | 06 | 13 | 00 | 500 | 075 | 017 | 017 | b | 09 | | | | | | | | | |

| MESSAGE TIME OF HR. 1/10 | CAS- T NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | -0081 | 3129 | 2517 | 0028056 | 0000 | 14404 | 877 | | | | | | | |
| 124 | | OBS | 0000 | -0081 | 31292 | 2517 | | | 14404 | 877 | | | | | | | |
| 124 | | OBS | 0005 | -0082 | 31290 | 2517 | | | 14404 | 882 | | | | | | | |
| | | STD | 0010 | -0094 | 3142 | 2527 | 0027065 | 0028 | 14401 | 882 | | | | | | | |
| 124 | | OBS | 0010 | -0094 | 31415 | 2527 | | | 14401 | 882 | | | | | | | |
| | | STD | 0020 | -0146 | 3365 | 2709 | 0009758 | 0046 | 14410 | 823 | | | | | | | |
| 124 | | OBS | 0025 | -0164 | 34417 | 2772 | | | 14413 | 802 | | | | | | | |
| | | STD | 0030 | -0164 | 3447 | 2776 | 0003411 | 0053 | 14414 | 798 | | | | | | | |
| | | STD | 0050 | -0165 | 3464 | 2791 | 0002094 | 0058 | 14420 | 784 | | | | | | | |
| 124 | | OBS | 0051 | -0165 | 34645 | 2791 | | | 14420 | 785 | | | | | | | |
| | | STD | 0075 | -0164 | 3472 | 2796 | 0001510 | 0063 | 14425 | 781 | | | | | | | |
| 124 | | OBS | 0076 | -0164 | 34718 | 2797 | | | 14425 | 781 | | | | | | | |
| | | STD | 0100 | -0156 | 3475 | 2799 | 0001252 | 0066 | 14434 | 778 | | | | | | | |
| 124 | | OBS | 0101 | -0156 | 34752 | 2799 | | | 14434 | 778 | | | | | | | |
| | | STD | 0125 | -0152 | 3478 | 2801 | 0001040 | 0069 | 14440 | 774 | | | | | | | |
| | | STD | 0150 | -0147 | 3481 | 2803 | 0000931 | 0071 | 14447 | 769 | | | | | | | |
| 124 | | OBS | 0153 | -0146 | 34809 | 2803 | | | 14448 | 768 | | | | | | | |
| | | STD | 0200 | -0135 | 3485 | 2805 | 0000517 | 0075 | 14452 | 755 | | | | | | | |
| 124 | | OBS | T0204 | -0134 | 34855 | 2807 | | | 14453 | 751 | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | MAGNETIC CORRECTED | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SMPLS | 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 |
| 311165 | ED | | 78238N | 085220E | | 281 | 85 | 08 | 21 | 83 | 1967 | 005 | | 0006 | 01 | 00 | 0 | | | | b | 2 | | 0006 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS. | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | |
| | | | | | | COLOR CODE | TRANS. IMT | DIR. | SPEED OF FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | | | | | | | | | | |
| | | | | | | 05 | 12 | 33 | S | 3 | 140 | 22 | 21 | b | 06 | | | | | | | | | |

| MESSAGE TIME OF HR. 1/10 | CAS- T NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | 3193 | 2570 | 0022476 | 0000 | 14372 | 923 | | | | | | | |
| 084 | | OBS | 0004 | -0168 | 31426 | 2570 | | | 14372 | 923 | | | | | | | |
| 084 | | OBS | 0005 | -0173 | 32941 | 2620 | | | 14379 | 928 | | | | | | | |
| | | STD | 0011 | -0174 | 3254 | 2627 | 0008223 | 0021 | 14379 | 931 | | | | | | | |
| 084 | | OBS | 0010 | -0174 | 3254 | 2620 | | | 14379 | 930 | | | | | | | |
| | | STD | 0020 | -0175 | 3288 | 2643 | 0015626 | 0038 | 14385 | 879 | | | | | | | |
| 084 | | OBS | 0023 | -0175 | 32072 | 2663 | | | 14389 | 850 | | | | | | | |
| | | STD | 0030 | -0171 | 3242 | 2690 | 0011604 | 0051 | 14395 | 824 | | | | | | | |
| | | STD | 0040 | -0169 | 3430 | 2762 | 0004722 | 0067 | 14412 | 745 | | | | | | | |
| 84 | | OBS | 0040 | -0169 | 34295 | 2762 | | | 14412 | 745 | | | | | | | |
| | | STD | 0075 | -0164 | 3442 | 2774 | 0003741 | 0078 | 14414 | 743 | | | | | | | |
| 084 | | OBS | 0077 | -0164 | 34422 | 2773 | | | 14414 | 743 | | | | | | | |

| REFERENCE | SHIP CODE | LATITUDE | LONGITUDE | DRIFT INDIC | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 'SAMPL'S' | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER |
|-----------|-----------|----------|-----------|-------------|---------------|------------|--------------------|----------------|-----------------|--------------|--------------|----------------|-----------------|-------------------------|-------------------|-----|-----|--------------|-------------|---------------------|
| | | | | | 10" | 1" | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | | |
| 311165 | ED | 77498N | 087100E | | 280 | 77 | 08 | 23 | 036 | 1967 | 007 | 0132 | 01 | 00 | 0 | | | 5 | 5 | 0007 |
| | | | | | WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | |
| | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | |
| | | | | | 05 | 09 | 30 | 505 | 170 | 000 | -006 | 8 | 08 | | | | | | | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-x10 ⁷ | $\frac{\sigma}{\rho}$ Δ 0 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 | -0166 | 3166 | 2549 | 0025030 | 0000 | 14369 | 916 | | | | | | | |
| 036 | | OBS | 0000 | -0166 | 31660 | 2549 | | | 14369 | 916 | | | | | | | |
| 036 | | OBS | 0005 | -0172 | 32213 | 2594 | | | 14375 | 922 | | | | | | | |
| | | STD | 0010 | -0172 | 3228 | 2599 | 0020220 | 0023 | 14376 | 925 | | | | | | | |
| 036 | | OBS | 0010 | -0172 | 32282 | 2599 | | | 14376 | 925 | | | | | | | |
| | | STD | 0020 | -0171 | 3236 | 2605 | 0019635 | 0043 | 14379 | 919 | | | | | | | |
| 036 | | OBS | 0025 | -0171 | 32395 | 2608 | | | 14381 | 916 | | | | | | | |
| | | STD | 0030 | -0163 | 3291 | 2650 | 0015392 | 0060 | 14393 | 859 | | | | | | | |
| | | STD | 0050 | -0141 | 3427 | 2760 | 0004993 | 0080 | 14426 | 713 | | | | | | | |
| 036 | | OBS | 0050 | -0141 | 34271 | 2760 | | | 14426 | 713 | | | | | | | |
| | | STD | 0075 | -0141 | 3435 | 2766 | 0004406 | 0092 | 14431 | 717 | | | | | | | |
| 036 | | OBS | 0075 | -0141 | 34346 | 2766 | | | 14431 | 717 | | | | | | | |
| | | STD | 0100 | -0142 | 3439 | 2769 | 0004069 | 0103 | 14435 | 708 | | | | | | | |
| 036 | | OBS | T0100 | -0142 | 34368 | 2769 | | | 14435 | 708 | | | | | | | |
| | | STD | 0125 | -0144 | 3444 | 2773 | 0003652 | 0112 | 14439 | 714 | | | | | | | |
| 036 | | OBS | T0136 | -0146 | 34460 | 2775 | | | 14440 | 721 | | | | | | | |

| REFERENCE | SHIP CODE | LATITUDE | LONGITUDE | DRIFT INDIC | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 'SAMPL'S' | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER |
|-----------|-----------|----------|-----------|-------------|---------------|------------|--------------------|----------------|-----------------|--------------|--------------|----------------|-----------------|-------------------------|-------------------|-----|-----|--------------|-------------|---------------------|
| | | | | | 10" | 1" | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | | |
| 311165 | ED | 77020N | 081280E | | 280 | 71 | 08 | 24 | 153 | 1967 | 008 | 0042 | 00 | 00 | 0 | | | 5 | 8 | 0008 |
| | | | | | 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 | | | | | | | | | |
| | | | | | 06 | 10 | 33 | 508 | 225 | 022 | 011 | 7 | 09 | | | | | | | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-x10 ⁷ | $\frac{\sigma}{\rho}$ Δ 0 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 | -0141 | 2932 | 2359 | 0043140 | 0000 | 14348 | 889 | | | | | | | |
| 153 | | OBS | 0000 | -0141 | 29316 | 2359 | | | 14348 | 889 | | | | | | | |
| 153 | | OBS | 0005 | -0151 | 29835 | 2401 | | | 14351 | 884 | | | | | | | |
| | | STD | 0010 | -0158 | 3054 | 2458 | 0033662 | 0038 | 14359 | 856 | | | | | | | |
| 153 | | OBS | 0010 | -0158 | 30540 | 2458 | | | 14359 | 856 | | | | | | | |
| 153 | | OBS | 0015 | -0160 | 31179 | 2510 | | | 14367 | 851 | | | | | | | |
| | | STD | 0020 | -0159 | 3277 | 2639 | 0016485 | 0063 | 14391 | 798 | | | | | | | |
| 153 | | OBS | 0020 | -0159 | 32770 | 2639 | | | 14391 | 798 | | | | | | | |
| 153 | | OBS | 0025 | -0157 | 33203 | 2674 | | | 14399 | 760 | | | | | | | |
| | | STD | 0030 | -0150 | 3341 | 2690 | 0011560 | 0077 | 14406 | 743 | | | | | | | |
| 153 | | OBS | 0030 | -0150 | 33413 | 2690 | | | 14406 | 743 | | | | | | | |
| 153 | | OBS | 0035 | -0150 | 33428 | 2692 | | | 14407 | 742 | | | | | | | |
| 153 | | OBS | 0040 | -0150 | 33436 | 2692 | | | 14408 | 743 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MO | DAY | HR | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|-------------------------|----------------|-----------|------------------|-------------------|--------------|----------|-----------------------------|--|----------------------|---------------------|----------------------------|-----------------------|----------------------------|----------------------------|------------------------------|--------------|-------------|-----|---------------------|------|
| CRUISE NO. | STATION NUMBER | | | | | | | | DIR. | HGT | | | PER | SEA | TYPE | | AMT | | | |
| CRUISE NO. | STATION NUMBER | 10" | 1" | MO | DAY | HR | 1/10 | YEAR | CRUISE NO. | STATION NUMBER | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | DIR. | HGT | PER | SEA | TYPE | AMT | NODC STATION NUMBER | |
| 311165 | ED | 78400N | 071180E | 28 | 11 | 08 | 25 | 085 | 1967 | 009 | 0484 | 05 | 00 | 0 | | | 70 | 6 | 8 | 0009 |
| 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 | | | | | | | | | | | | | | |
| 06 | 11 | 27 | S10 | 301 | | | 7 | 12 | | | | | | | | | | | | |
| MESSAGE TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-20° | Σ Δ σ _t 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 | -0130 | 3167 | 2549 | 0025048 | 0000 | 14386 | 885 | | | | | | | | | | |
| | 086 | OBS | 0000 | -0130 | 31607 | 2549 | | | 14386 | 885 | | | | | | | | | | |
| | 086 | OBS | 0005 | -0152 | 31807 | 2560 | | | 14378 | 897 | | | | | | | | | | |
| | | STD | 0010 | -0148 | 3305 | 2661 | 0014344 | 0020 | 14399 | 969 | | | | | | | | | | |
| | 086 | OBS | 0010 | -0148 | 33053 | 2661 | | | 14399 | 969 | | | | | | | | | | |
| | | STD | 0020 | -0164 | 3372 | 2716 | 0009174 | 0031 | 14402 | 869 | | | | | | | | | | |
| | 086 | OBS | 0024 | -0169 | 33924 | 2732 | | | 14403 | 839 | | | | | | | | | | |
| | | STD | 0030 | -0172 | 3410 | 2747 | 0006230 | 0039 | 14405 | 817 | | | | | | | | | | |
| | 086 | OBS | 0049 | -0178 | 34478 | 2777 | | | 14411 | 772 | | | | | | | | | | |
| | | STD | 0050 | -0178 | 3448 | 2778 | 0003287 | 0049 | 14411 | 772 | | | | | | | | | | |
| | 086 | OBS | 0074 | -0174 | 34569 | 2785 | | | 14418 | 760 | | | | | | | | | | |
| | | STD | 0075 | -0173 | 3457 | 2785 | 0002595 | 0050 | 14419 | 766 | | | | | | | | | | |
| | 086 | OBS | 0099 | -0142 | 34645 | 2790 | | | 14439 | 762 | | | | | | | | | | |
| | | STD | 0100 | -0140 | 3465 | 2790 | 0002070 | 0062 | 14440 | 762 | | | | | | | | | | |
| | | STD | 0125 | -0101 | 3471 | 2794 | 0001742 | 0067 | 14463 | 763 | | | | | | | | | | |
| | | STD | 0150 | -0071 | 3477 | 2797 | 0001441 | 0071 | 14482 | 764 | | | | | | | | | | |
| | 086 | OBS | 0190 | -0071 | 34765 | 2797 | | | 14482 | 764 | | | | | | | | | | |
| | 086 | OBS | 0199 | | | | | | | 743 | | | | | | | | | | |
| | | STD | 0200 | -0082 | 3480 | 2800 | 0001113 | 0077 | 14486 | 743 | | | | | | | | | | |
| | | STD | 0250 | -0090 | 3484 | 2804 | 0000760 | 0082 | 14491 | 742 | | | | | | | | | | |
| | 086 | OBS | 0290 | -0094 | 34867 | 2806 | | | 14497 | 741 | | | | | | | | | | |
| | | STD | 0300 | -0094 | 3487 | 2806 | 0000515 | 0085 | 14498 | 741 | | | | | | | | | | |
| | | STD | 0400 | -0094 | 3493 | 2811 | 0000025 | 0088 | 14515 | 746 | | | | | | | | | | |
| | 086 | OBS | T0400 | -0094 | 34930 | 2811 | | | 14515 | 746 | | | | | | | | | | |
| | 086 | OBS | 0472 | -0103 | 34962 | 2814 | | | 14523 | 737 | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MO | DAY | HR | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|-------------------------|----------------|-----------|------------------|-------------------|--------------|----------|-----------------------------|--|----------------------|---------------------|----------------------------|-----------------------|----------------------------|----------------------------|------------------------------|--------------|-------------|-----|---------------------|------|
| CRUISE NO. | STATION NUMBER | | | | | | | | DIR. | HGT | | | PER | SEA | TYPE | | AMT | | | |
| CRUISE NO. | STATION NUMBER | 10" | 1" | MO | DAY | HR | 1/10 | YEAR | CRUISE NO. | STATION NUMBER | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | DIR. | HGT | PER | SEA | TYPE | AMT | NODC STATION NUMBER | |
| 311165 | ED | 60250N | 072190E | 28 | 11 | 08 | 26 | 065 | 1967 | 010 | 0556 | 05 | 00 | 0 | | | 05 | 9 | 8 | 0010 |
| 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 | | | | | | | | | | | | | | |
| 06 | 11 | 00 | S00 | 209 | | | 006 | 006 | 5 | 12 | | | | | | | | | | |
| MESSAGE TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-20° | Σ Δ σ _t 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 | -0164 | 3167 | 2501 | 0029548 | 0000 | 14362 | 931 | | | | | | | | | | |
| | 066 | OBS | 0000 | -0164 | 31674 | 2501 | | | 14362 | 931 | | | | | | | | | | |
| | 066 | OBS | 0005 | -0176 | 32555 | 2621 | | | 14377 | 927 | | | | | | | | | | |
| | | STD | 0010 | -0176 | 3258 | 2623 | 0017914 | 0024 | 14379 | 924 | | | | | | | | | | |
| | 066 | OBS | 0010 | -0176 | 32580 | 2623 | | | 14379 | 924 | | | | | | | | | | |
| | | STD | 0020 | -0175 | 3264 | 2628 | 0027489 | 0041 | 14381 | 931 | | | | | | | | | | |
| | 066 | OBS | 0025 | -0175 | 32663 | 2620 | | | 14383 | 934 | | | | | | | | | | |
| | | STD | 0030 | -0176 | 3301 | 2658 | 0014595 | 0057 | 14388 | 915 | | | | | | | | | | |
| | | STD | 0050 | -0181 | 3400 | 2739 | 0006948 | 0075 | 14405 | 852 | | | | | | | | | | |
| | 066 | OBS | 0050 | -0181 | 34002 | 2739 | | | 14405 | 852 | | | | | | | | | | |
| | | STD | 0075 | -0185 | 3436 | 2768 | 0004205 | 0093 | 14410 | 797 | | | | | | | | | | |
| | 066 | OBS | 0075 | -0185 | 34350 | 2768 | | | 14410 | 797 | | | | | | | | | | |
| | | STD | 0100 | -0174 | 3451 | 2780 | 0003016 | 0102 | 14422 | 776 | | | | | | | | | | |
| | 066 | OBS | 0100 | -0174 | 34513 | 2780 | | | 14422 | 776 | | | | | | | | | | |
| | | STD | 0125 | -0162 | 3460 | 2786 | 0002504 | 0109 | 14452 | 763 | | | | | | | | | | |
| | | STD | 0150 | -0096 | 3467 | 2790 | 0002059 | 0115 | 14469 | 750 | | | | | | | | | | |
| | 066 | OBS | 0151 | -0095 | 34675 | 2791 | | | 14470 | 749 | | | | | | | | | | |
| | | STD | 0200 | -0119 | 3475 | 2798 | 0001341 | 0123 | 14468 | 768 | | | | | | | | | | |
| | 066 | OBS | T0203 | -0120 | 34753 | 2798 | | | 14468 | 769 | | | | | | | | | | |
| | | STD | 0250 | -0118 | 3474 | 2801 | 0001021 | 0129 | 14477 | 764 | | | | | | | | | | |
| | | STD | 0300 | -0113 | 3483 | 2804 | 0000726 | 0133 | 14488 | 758 | | | | | | | | | | |
| | 066 | OBS | 0300 | -0113 | 34829 | 2804 | | | 14488 | 758 | | | | | | | | | | |
| | | STD | 0400 | -0094 | 3492 | 2810 | 0000105 | 0138 | 14515 | 742 | | | | | | | | | | |
| | 066 | OBS | T0400 | -0094 | 34910 | 2810 | | | 14515 | 742 | | | | | | | | | | |
| | | STD | 0500 | -0100 | 3496 | 2814 | -0000267 | 0137 | 14529 | 742 | | | | | | | | | | |
| | 066 | OBS | T0539 | -0109 | 34960 | 2815 | | | 14532 | 742 | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE ° 1/10 | LONGITUDE ° 1/10 | DRIFT INDICN | 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 TYPE AMT | NODC STATION NUMBER | | |
|---------------|-------------------|------------|--------------------|---------------------|-----------------|--------------------|-------------------|-----------------------|----|-----------------|------|----------------------|--------|-----------------------|----------------------------|----------------------|----|-----|----------------------|----------------------------|---------------------------|------|-----|
| CRUISE NO. | STATION NUMBER | | | | | CRUISE NO. | STATION NUMBER | 10" | 1" | MO | | DAY | HR./10 | | | 10" | 1" | DIR | | | | HGT | PER |
| 311165 | ED | | 81265N | 078170E | | 929 | 18 | 08 | 27 | 039 | 1967 | 011 | | 0165 | 02 | 00 | 0 | | 71 | X | 9 | 0011 | |
| 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 | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | | | 23 | | S14 | | 093 | | -007 | | -007 | | 1 | | 09 | | | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. K 10 ³ | SOUND VELOCITY | D ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S C C |
|-------------------------|----------|-----------|-----------|-------|-------|---------|---|---|-------------------|---------------------|---|--|---|---|---|----|-------------|
| | | STD | 0000 | -0174 | 3340 | 2690 | 0011663 | 0000 | 14389 | 860 | | | | | | | |
| 040 | | OBS | 0000 | -0174 | 33395 | 2690 | | | 14389 | 860 | | | | | | | |
| 040 | | OBS | 0005 | -0172 | 33869 | 2728 | | | 14398 | 852 | | | | | | | |
| | | STD | 0010 | -0183 | 3388 | 2729 | 0007931 | 0010 | 14394 | 852 | | | | | | | |
| 040 | | OBS | 0010 | -0183 | 33877 | 2729 | | | 14394 | 852 | | | | | | | |
| | | STD | 0020 | -0182 | 3388 | 2729 | 0007902 | 0018 | 14396 | 852 | | | | | | | |
| 040 | | OBS | 0020 | -0182 | 33882 | 2729 | | | 14397 | 852 | | | | | | | |
| | | STD | 0030 | -0178 | 3405 | 2743 | 0006600 | 0025 | 14402 | 814 | | | | | | | |
| | | STD | 0050 | -0159 | 3463 | 2789 | 0002188 | 0034 | 14422 | 699 | | | | | | | |
| 040 | | OBS | 0051 | -0158 | 34653 | 2791 | | | 14423 | 697 | | | | | | | |
| | | STD | 0075 | -0135 | 3476 | 2799 | 0001255 | 0038 | 14440 | 748 | | | | | | | |
| 040 | | OBS | 0077 | -0134 | 34766 | 2800 | | | 14440 | 750 | | | | | | | |
| | | STD | 0100 | -0121 | 3480 | 2802 | 0000988 | 0041 | 14451 | 734 | | | | | | | |
| 040 | | OBS | 0103 | -0120 | 34805 | 2802 | | | 14452 | 732 | | | | | | | |
| | | STD | 0125 | -0119 | 3481 | 2803 | 0000909 | 0043 | 14456 | 750 | | | | | | | |
| 040 | | OBS | T0128 | -0119 | 34812 | 2803 | | | 14457 | 751 | | | | | | | |
| | | STD | 0150 | -0119 | 3481 | 2803 | 0000878 | 0045 | 14460 | 750 | | | | | | | |
| 040 | | OBS | T0165 | -0119 | 34813 | 2803 | | | 14463 | 739 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE ° 1/10 | LONGITUDE ° 1/10 | DRIFT INDICN | 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 TYPE AMT | NODC STATION NUMBER | | |
|---------------|-------------------|------------|--------------------|---------------------|-----------------|--------------------|-------------------|-----------------------|----|-----------------|------|----------------------|--------|-----------------------|----------------------------|----------------------|----|-----|----------------------|----------------------------|---------------------------|------|-----|
| CRUISE NO. | STATION NUMBER | | | | | CRUISE NO. | STATION NUMBER | 10" | 1" | MO | | DAY | HR./10 | | | 10" | 1" | DIR | | | | HGT | PER |
| 311165 | EW | | 72243N | 056307E | | 283 | 26 | 08 | 31 | 150 | 1967 | 001 | | 0300 | 03 | 08 | 2 | | | 6 | 7 | 0012 | |
| 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 | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | | | 06 | | 14 | | 00 | | S00 | | 258 | | 039 | | 006 | | 7 | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. K 10 ³ | SOUND VELOCITY | D ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S C C |
|-------------------------|----------|-----------|-----------|-------|-------|---------|---|---|-------------------|---------------------|---|--|---|---|---|----|-------------|
| | | STD | 0000 | 0282 | 3161 | 2522 | 0027583 | 0000 | 14572 | 807 | | | | | | | |
| 150 | | OBS | 0000 | 0282 | 31607 | 2522 | | | 14572 | 807 | | | | | | | |
| 150 | | OBS | 0005 | 0171 | 32046 | 2565 | | | 14530 | 858 | | | | | | | |
| | | STD | 0010 | 0010 | 3291 | 2644 | 0016011 | 0022 | 14470 | 872 | | | | | | | |
| 150 | | OBS | 0010 | 0010 | 32908 | 2644 | | | 14470 | 872 | | | | | | | |
| | | STD | 0020 | -0119 | 3389 | 2728 | 0007996 | 0034 | 14426 | 853 | | | | | | | |
| 150 | | OBS | 0025 | -0163 | 34221 | 2756 | | | 14410 | 843 | | | | | | | |
| | | STD | 0030 | -0168 | 3425 | 2759 | 0005089 | 0040 | 14409 | 829 | | | | | | | |
| | | STD | 0050 | -0179 | 3437 | 2769 | 0004128 | 0050 | 14409 | 785 | | | | | | | |
| 150 | | OBS | 0050 | -0179 | 34370 | 2769 | | | 14409 | 785 | | | | | | | |
| | | STD | 0075 | -0175 | 3447 | 2777 | 0003342 | 0059 | 14417 | 760 | | | | | | | |
| 150 | | OBS | 0075 | -0175 | 34472 | 2777 | | | 14417 | 760 | | | | | | | |
| | | STD | 0100 | -0170 | 3453 | 2781 | 0002897 | 0067 | 14424 | 749 | | | | | | | |
| 150 | | OBS | 0100 | -0170 | 34530 | 2781 | | | 14424 | 749 | | | | | | | |
| | | STD | 0125 | -0170 | 3457 | 2785 | 0002577 | 0074 | 14429 | 746 | | | | | | | |
| 150 | | OBS | 0150 | -0170 | 3461 | 2788 | 0002257 | 0080 | 14433 | 736 | | | | | | | |
| | | STD | 0152 | -0170 | 34615 | 2788 | | | 14434 | 735 | | | | | | | |
| | | STD | 0200 | -0166 | 3467 | 2793 | 0001783 | 0090 | 14444 | 698 | | | | | | | |
| 150 | | OBS | T0203 | -0166 | 34673 | 2793 | | | 14445 | 696 | | | | | | | |
| | | STD | 0250 | -0166 | 3471 | 2796 | 0001453 | 0098 | 14453 | 674 | | | | | | | |
| 150 | | OBS | T0281 | -0169 | 34729 | 2798 | | | 14457 | 667 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | |
|--------------------------|----------|------------|--------------------|---------------------|--------------------|----------------|-----------------------------|----------------------------------|----------------|---------------------|------------------------------|----------------------|------------------------------|------------------------------|--------------------------------|-------------------|--------|----------------------|--------------|-------------|-----|---------------------|------|-----|--|--|--|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT | | | | |
| 311165 | | EW | 72090N | 057527E | | 283 | 27 | 08 | 31 | 185 | 1967 | 002 | | 0245 | 02 | 09 | 2 | | | 6 | 8 | 0013 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (M) | | DIR. | | SPEED OR FORCE | | METER (mbst) | | DRY BULB | | WET BULB | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| | | | | | | 03 | | S05 | | 256 | | 039 | | 022 | | 7 | | 09 | | | | | | | | | | |
| MESSING TIME OF HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-20° | S. Δ D 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 | 0594 | | | | | | 749 | | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0000 | 0594 | | | | | | 749 | | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0005 | 0575 | 31024 | 2447 | | | | 14689 | 771 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0009 | 0469 | 31542 | 2499 | | | | 14653 | 887 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0418 | 3175 | 2521 | 0027669 | | | 14634 | 881 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | -0000 | 3348 | 2690 | 0011595 | | | 14475 | 827 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0025 | -0143 | 34082 | 2744 | | | | 14418 | 808 | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0153 | 3414 | 2749 | 0005973 | | | 14415 | 804 | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0178 | 3433 | 2765 | 0004438 | | | 14409 | 785 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0051 | -0179 | 34339 | 2766 | | | | 14409 | 784 | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0175 | 3442 | 2773 | 0003740 | | | 14410 | 750 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0076 | -0175 | 34428 | 2773 | | | | 14416 | 749 | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0170 | 3452 | 2780 | 0003003 | | | 14424 | 747 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0101 | -0170 | 34520 | 2781 | | | | 14424 | 746 | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0169 | 3456 | 2784 | 0002656 | | | 14429 | 721 | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | -0168 | 3461 | 2788 | 0002263 | | | 14434 | 671 | | | | | | | | | | | | | | | | | |
| 185 | | OBS | 0153 | -0168 | 34611 | 2788 | | | | 14435 | 663 | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | -0166 | 3469 | 2794 | 0001631 | | | 14445 | | | | | | | | | | | | | | | | | | |
| 185 | | OBS | T0224 | -0165 | 3472 | 2797 | | | | 14450 | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | |
|--------------------------|----------|------------|--------------------|---------------------|--------------------|----------------|-----------------------------|----------------------------------|----------------|---------------------|------------------------------|----------------------|------------------------------|------------------------------|--------------------------------|-------------------|--------|----------------------|--------------|-------------|-----|---------------------|------|-----|--|--|--|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT | | | | |
| 311165 | | EW | 71560N | 059190E | | 283 | 19 | 08 | 31 | 217 | 1967 | 003 | | 0137 | 01 | 08 | 1 | | | 5 | 8 | 0014 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (M) | | DIR. | | SPEED OR FORCE | | METER (mbst) | | DRY BULB | | WET BULB | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| | | | | | | 02 | | S07 | | 253 | | 046 | | 031 | | 7 | | 07 | | | | | | | | | | |
| MESSING TIME OF HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-20° | S. Δ D 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 | 0717 | 2984 | 2337 | 0045242 | 0000 | 14730 | 715 | | | | | | | | | | | | | | | | | | |
| | | OBS | 0000 | 0717 | 29842 | 2337 | | | 14730 | 715 | | | | | | | | | | | | | | | | | | |
| 217 | | OBS | 0005 | 0716 | 29842 | 2337 | | | 14730 | 716 | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0721 | 2995 | 2345 | 0044486 | 0045 | 14734 | 720 | | | | | | | | | | | | | | | | | | |
| | | OBS | 0016 | 0721 | 2951 | 2345 | | | 14734 | 720 | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0283 | 3286 | 2621 | 0018113 | 0076 | 14593 | 780 | | | | | | | | | | | | | | | | | | |
| 217 | | OBS | 0025 | 0126 | 33854 | 2715 | | | 14536 | 804 | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0066 | 3394 | 2722 | 0006544 | 0069 | 14522 | 807 | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0035 | 3420 | 2750 | 0005917 | 0104 | 14474 | 822 | | | | | | | | | | | | | | | | | | |
| 217 | | OBS | 0050 | -0035 | 34202 | 2750 | | | 14474 | 822 | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0098 | 3435 | 2765 | 0004491 | 0117 | 14451 | 819 | | | | | | | | | | | | | | | | | | |
| 217 | | OBS | 0075 | -0098 | 34354 | 2765 | | | 14451 | 819 | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0110 | 3446 | 2774 | 0003628 | 0127 | 14451 | 806 | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0122 | 3453 | 2780 | 0003040 | 0135 | 14451 | 784 | | | | | | | | | | | | | | | | | | |
| 217 | | OBS | 0150 | -0124 | 34540 | 2781 | | | 14451 | 778 | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | |
|--------------------------|----------|------------|--------------------|---------------------|--------------------|----------------|-----------------------------|----------------------------------|----------------|---------------------|------------------------------|----------------------|------------------------------|------------------------------|--------------------------------|-------------------|--------|----------------------|--------------|-------------|-----|---------------------|------|-----|--|--|--|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT | | | | |
| 311165 | | EW | 71400N | 060387E | | 282 | 20 | 09 | 01 | 024 | 1967 | 004 | | 0272 | 01 | 00 | 0 | | | 6 | 6 | 0015 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (M) | | DIR. | | SPEED OR FORCE | | METER (mbst) | | DRY BULB | | WET BULB | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| | | | | | | 21 | | S02 | | 271 | | 047 | | 028 | | 7 | | 05 | | | | | | | | | | |
| MESSING TIME OF HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-20° | S. Δ D 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 | 0634 | 2909 | 2288 | 0049933 | 0000 | 14687 | 729 | | | | | | | | | | | | | | | | | | |
| 014 | | OBS | 0000 | 0634 | 29086 | 2288 | | | 14687 | 729 | | | | | | | | | | | | | | | | | | |
| 014 | | OBS | 0005 | 0689 | 29647 | 2325 | | | 14717 | 724 | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0673 | 3021 | 2371 | 0041570 | 0046 | 14719 | 726 | | | | | | | | | | | | | | | | | | |
| 014 | | OBS | 0010 | 0673 | 30209 | 2371 | | | 14719 | 726 | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0072 | 3267 | 2621 | 0018133 | 0076 | 14497 | 802 | | | | | | | | | | | | | | | | | | |
| 014 | | OBS | 0025 | -0153 | 33622 | 2707 | | | 14407 | 829 | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0153 | 3372 | 2716 | 0009174 | 0090 | 14409 | 826 | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0151 | 3413 | 2748 | 0006052 | 0105 | 14419 | 813 | | | | | | | | | | | | | | | | | | |
| 014 | | OBS | 0065 | -0150 | 34433 | 2773 | | | 14426 | 803 | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSSEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | |
|------------|---------|------------|------------------|-------------------|--------------------|----------------|----|--------------------|------|-----------------|------|----------------------|----------------|-----------------|-----------------------|-------------------|-----|-----|-----|--------------|-------------|------|---------------------|--|--|--|--|
| CRUISE NO. | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | SEA | | TYPE | AMT | | | | | |
| 311165 | EW | 71285N | 062222E | 282 | 12 | 09 | 01 | 048 | 1967 | 005 | | 0140 | 01 | 00 | 0 | | | 6 | 6 | | | 0016 | | | | | |
| 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 | | | | | | | | | | | | | | | | | |
| 09 | | 10 | | 21 | | 502 | | 275 | | 061 | | 037 | | 8 | | 06 | | | | | | | | | | | |

| MESSNGR TIME OF HR 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ D DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g - dl/l}$ | TOTAL-P $\mu\text{g - dl/l}$ | NO ₂ -N $\mu\text{g - dl/l}$ | NO ₃ -N $\mu\text{g - dl/l}$ | SiO ₄ -Si $\mu\text{g - dl/l}$ | pH | S.C.C. |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|---|------------------------------|---|---|---|----|--------|
| | | STD | 0000 | 0630 | 2632 | 2071 | 0070713 | 0000 | 14649 | 751 | | | | | | | |
| 048 | | OBS | 0000 | 0630 | 26318 | 2071 | | | 14649 | 751 | | | | | | | |
| 048 | | OBS | 0005 | 0620 | 26847 | 2113 | | | 14653 | 760 | | | | | | | |
| | | STD | 0010 | 0270 | 2958 | 2361 | 0042907 | 0057 | 14541 | 866 | | | | | | | |
| 048 | | OBS | 0010 | 0270 | 29575 | 2361 | | | 14541 | 866 | | | | | | | |
| | | STD | 0020 | -0040 | 3202 | 2574 | 0022591 | 0090 | 14436 | 892 | | | | | | | |
| 048 | | OBS | 0025 | -0145 | 32909 | 2649 | | | 14400 | 896 | | | | | | | |
| | | STD | 0030 | -0155 | 3318 | 2672 | 0013337 | 0108 | 14400 | 876 | | | | | | | |
| | | STD | 0050 | -0177 | 3397 | 2736 | 0007219 | 0128 | 14404 | 818 | | | | | | | |
| 048 | | OBS | 0050 | -0177 | 33968 | 2736 | | | 14404 | 818 | | | | | | | |
| | | STD | 0075 | -0166 | 3424 | 2758 | 0005168 | 0144 | 14418 | 792 | | | | | | | |
| 048 | | OBS | 0075 | -0166 | 34237 | 2758 | | | 14418 | 792 | | | | | | | |
| | | STD | 0100 | -0147 | 3439 | 2769 | 0004037 | 0155 | 14433 | 755 | | | | | | | |
| 048 | | OBS | 0100 | -0147 | 34390 | 2769 | | | 14433 | 755 | | | | | | | |
| | | STD | 0125 | -0162 | 3453 | 2781 | 0002937 | 0164 | 14432 | 720 | | | | | | | |
| 048 | | OBS | 0125 | -0162 | 34526 | 2781 | | | 14432 | 720 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSSEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | |
|------------|---------|------------|------------------|-------------------|--------------------|----------------|----|--------------------|------|-----------------|------|----------------------|----------------|-----------------|-----------------------|-------------------|-----|-----|-----|--------------|-------------|------|---------------------|--|--|--|--|
| CRUISE NO. | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | SEA | | TYPE | AMT | | | | | |
| 311165 | EW | 71090N | 063240E | 282 | 13 | 09 | 01 | 078 | 1967 | 006 | | 0146 | 01 | 00 | 0 | | | 6 | 6 | | | 0017 | | | | | |
| 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 | | | | | | | | | | | | | | | | | |
| 10 | | 10 | | 10 | | 505 | | 284 | | 044 | | 036 | | 8 | | 06 | | | | | | | | | | | |

| MESSNGR TIME OF HR 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ D DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g - dl/l}$ | TOTAL-P $\mu\text{g - dl/l}$ | NO ₂ -N $\mu\text{g - dl/l}$ | NO ₃ -N $\mu\text{g - dl/l}$ | SiO ₄ -Si $\mu\text{g - dl/l}$ | pH | S.C.C. |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|---|------------------------------|---|---|---|----|--------|
| | | STD | 0000 | 0597 | 2667 | 2102 | 0067694 | 0000 | 14640 | 756 | | | | | | | |
| 077 | | OBS | 0000 | 0597 | 26673 | 2102 | | | 14640 | 756 | | | | | | | |
| 077 | | OBS | 0005 | 0536 | 27930 | 2207 | | | 14632 | 773 | | | | | | | |
| | | STD | 0010 | 0515 | 2810 | 2223 | 0056103 | 0062 | 14626 | 879 | | | | | | | |
| 077 | | OBS | 0010 | 0515 | 28102 | 2223 | | | 14626 | 879 | | | | | | | |
| | | STD | 0020 | 0011 | 3150 | 2530 | 0026772 | 0103 | 14453 | 875 | | | | | | | |
| 077 | | OBS | 0025 | -0156 | 32697 | 2633 | | | 14392 | 870 | | | | | | | |
| | | STD | 0030 | -0162 | 3302 | 2659 | 0014549 | 0124 | 14395 | 651 | | | | | | | |
| 077 | | OBS | 0049 | -0176 | 33857 | 2727 | | | 14403 | 813 | | | | | | | |
| | | STD | 0050 | -0176 | 3386 | 2727 | 0008051 | 0147 | 14403 | 816 | | | | | | | |
| 077 | | OBS | 0074 | -0174 | 34039 | 2742 | | | 14411 | 845 | | | | | | | |
| | | STD | 0075 | -0174 | 3405 | 2743 | 0006582 | 0165 | 14411 | 842 | | | | | | | |
| 077 | | OBS | 0099 | -0165 | 34299 | 2763 | | | 14423 | 773 | | | | | | | |
| | | STD | 0100 | -0165 | 3431 | 2763 | 0004597 | 0179 | 14423 | 771 | | | | | | | |
| 077 | | OBS | 0125 | -0163 | 3447 | 2776 | 0003365 | 0189 | 14431 | 731 | | | | | | | |
| | | OBS | T0141 | -0161 | 34531 | 2781 | | | 14435 | 721 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSSEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|------------|------------------|-------------------|--------------------|----------------|----|--------------------|------|-----------------|------|----------------------|----------------|-----------------|-----------------------|-------------------|-----|-----|-----|--------------|-------------|------|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | SEA | | TYPE | AMT | |
| 311165 | EW | 71430N | 066290E | 282 | 16 | 09 | 01 | 135 | 1967 | 007 | | 0119 | 01 | 00 | 2 | | | 5 | 3 | | | 0018 | |
| 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 | | | | | | | | | | | | | |
| 08 | | 503 | | 290 | | 042 | | 032 | | 8 | | 07 | | | | | | | | | | | |

| MESSNGR TIME OF HR 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ D DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g - dl/l}$ | TOTAL-P $\mu\text{g - dl/l}$ | NO ₂ -N $\mu\text{g - dl/l}$ | NO ₃ -N $\mu\text{g - dl/l}$ | SiO ₄ -Si $\mu\text{g - dl/l}$ | pH | S.C.C. |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|---|------------------------------|---|---|---|----|--------|
| | | STD | 0000 | 0522 | 2726 | 2156 | 0062562 | 0000 | 14617 | 754 | | | | | | | |
| 135 | | OBS | 0000 | 0522 | 27255 | 2156 | | | 14617 | 754 | | | | | | | |
| 135 | | OBS | 0005 | 0497 | 27368 | 2167 | | | 14608 | 763 | | | | | | | |
| | | STD | 0010 | 0444 | 2761 | 2191 | 0054179 | 0061 | 14590 | 767 | | | | | | | |
| 135 | | OBS | 0010 | 0444 | 27609 | 2191 | | | 14590 | 767 | | | | | | | |
| | | STD | 0020 | 0015 | 3126 | 2511 | 0028625 | 0105 | 14431 | 882 | | | | | | | |
| 135 | | OBS | 0025 | -0129 | 32542 | 2617 | | | 14403 | 884 | | | | | | | |
| | | STD | 0030 | -0134 | 3276 | 2637 | 0016615 | 0127 | 14404 | 846 | | | | | | | |
| | | STD | 0050 | -0138 | 3350 | 2697 | 0010897 | 0155 | 14416 | 743 | | | | | | | |
| 135 | | OBS | 0050 | -0136 | 33502 | 2697 | | | 14416 | 743 | | | | | | | |
| | | STD | 0075 | -0101 | 3415 | 2749 | 0006040 | 0176 | 14447 | 726 | | | | | | | |
| 138 | | OBS | 0075 | -0101 | 34150 | 2749 | | | 14447 | 726 | | | | | | | |
| | | STD | 0100 | -0113 | 3433 | 2763 | 0004641 | 0189 | 14448 | 691 | | | | | | | |
| 138 | | OBS | 0110 | -0132 | 34396 | 2769 | | | 14442 | 670 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--------------|----------------------|---------------------------|--------------------|--------------------|---|---|-------------------------|---------------------|--|---|--|--|--|-----|----------------------|-------------|-----|---------------------------|-------|------|------|--|---------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|----|-----|-----|-----|-----|---|----|--|
| CTR CODE | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:1/10 | | | CRUISE NO. | STATION NUMBER | DIR | | HGT | PER | | SEA | TYPE | AMT | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | | EW | 72013N | 065055E | 282 | 25 | 09 | 01 | 167 | 1967 | | 008 | 0161 | 01 | 0d | | | 5 | 8 | 0019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mbars)</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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>11</td> <td>S13</td> <td>288</td> <td>040</td> <td>023</td> <td>8</td> <td>06</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | 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 | | | 11 | S13 | 288 | 040 | 023 | 8 | 06 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 11 | S13 | 288 | 040 | 023 | 8 | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0476 | 2728 | 2162 | 0061934 | 0000 | 14598 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0000 | 0476 | 27282 | 2162 | | | 14598 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0005 | 0474 | 27274 | 2162 | | | 14597 | 760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0481 | 2730 | 2163 | 0061844 | 0052 | 14602 | 774 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0010 | 0481 | 27300 | 2163 | | | 14602 | 774 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0044 | 3100 | 2489 | 0030739 | 0108 | 14461 | 900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0025 | -0105 | 32288 | 2598 | | | 14411 | 933 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0126 | 3254 | 2619 | 0016525 | 0133 | 14405 | 896 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0049 | -0170 | 33307 | 2682 | | | 14395 | 804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0169 | 3333 | 2684 | 0012137 | 0163 | 14394 | 804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0074 | -0147 | 33667 | 2727 | | | 14421 | 772 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0145 | 3369 | 2729 | 0007687 | 0188 | 14423 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | 0098 | -0114 | 34309 | 2762 | | | 14447 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0115 | 3431 | 2762 | 0004726 | 0204 | 14447 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0125 | 3437 | 2767 | 0004236 | 0215 | 14447 | 639 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | | OBS | T0147 | -0134 | 34424 | 2772 | | | 14447 | 625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--------------|----------------------|---------------------------|--------------------|--------------------|---|---|-------------------------|---------------------|--|---|--|--|--|-----|----------------------|-------------|------|---------------------------|-------|------|------|--|---------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|----|-----|-----|-----|-----|---|----|--|
| CTR CODE | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:1/10 | | | CRUISE NO. | STATION NUMBER | DIR | | HGT | PER | | SEA | TYPE | AMT | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | | EW | 72150N | 063450E | 282 | 23 | 09 | 01 | 201 | 1967 | | 009 | 0093 | 01 | 15 | 2 | | | 0020 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mbars)</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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>13</td> <td>S10</td> <td>267</td> <td>049</td> <td>031</td> <td>7</td> <td>06</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | 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 | | | 13 | S10 | 267 | 049 | 031 | 7 | 06 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 13 | S10 | 267 | 049 | 031 | 7 | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0488 | 2644 | 2095 | 0008399 | 0000 | 14542 | 760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | 0000 | 0488 | 26443 | 2095 | | | 14542 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | 0005 | 0486 | 26441 | 2095 | | | 14542 | 776 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0478 | 2791 | 2211 | 0057236 | 0063 | 14606 | 773 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | 0010 | 0478 | 27906 | 2211 | | | 14606 | 773 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0031 | 3135 | 2517 | 0026006 | 0105 | 14400 | 892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | 0025 | -0123 | 32573 | 2672 | | | 14400 | 923 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0130 | 3276 | 2639 | 0010456 | 0128 | 14404 | 889 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0170 | 3347 | 2696 | 0012054 | 0155 | 14401 | 768 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | 0051 | -0171 | 33497 | 2698 | | | 14401 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0166 | 3400 | 2738 | 0006980 | 0176 | 14413 | 756 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | | OBS | T0087 | -0147 | 34232 | 2747 | | | 14426 | 745 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--------------|----------------------|---------------------------|--------------------|--------------------|---|---|-------------------------|---------------------|--|---|--|--|--|-----|----------------------|-------------|------|---------------------------|-------|------|------|--|---------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|----|-----|-----|-----|-----|---|----|--|
| CTR CODE | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:1/10 | | | CRUISE NO. | STATION NUMBER | DIR | | HGT | PER | | SEA | TYPE | AMT | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | | EW | 72314N | 062177E | 282 | 22 | 09 | 01 | 229 | 1967 | | 010 | 0091 | 01 | 15 | 2 | | | 0021 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th rowspan="2">BARO- METER (mbars)</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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>24</td> <td>S11</td> <td>277</td> <td>046</td> <td>034</td> <td>7</td> <td>06</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | 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 | | | 24 | S11 | 277 | 046 | 034 | 7 | 06 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 24 | S11 | 277 | 046 | 034 | 7 | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0546 | 2811 | 2221 | 0056314 | 0000 | 14636 | 753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0000 | 0546 | 28114 | 2221 | | | 14636 | 753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0005 | 0556 | 28616 | 2259 | | | 14649 | 757 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0611 | 2981 | 2347 | 0044234 | 0050 | 14668 | 743 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0010 | 0611 | 29809 | 2347 | | | 14668 | 743 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0040 | 3243 | 2604 | 0019799 | 0082 | 14479 | 933 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0025 | -0151 | 33347 | 2685 | | | 14404 | 984 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0155 | 3352 | 2699 | 0010726 | 0098 | 14405 | 938 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0162 | 3403 | 2741 | 0006761 | 0215 | 14412 | 807 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0050 | -0162 | 34030 | 2741 | | | 14412 | 807 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0156 | 3427 | 2760 | 0004974 | 0130 | 14423 | 762 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 229 | | OBS | 0075 | -0156 | 34266 | 2760 | | | 14423 | 762 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE CITY CODE | 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 SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER |
|----------------------------|-----------------|--------------|------------------|-------------------|---------------|------------------|--|--|----------------------|------------------------|---|--|---|---|---|----------------------|-------------|-----|----------------------|----------------|------|---------------------------|
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 72478N | 060545E | | 282 | 20 | 09 | 02 | 015 | 1967 | 011 | 0143 | 01 | 15 | 2 | | | 7 | 8 | | 0022 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | | | 24 | S11 | 277 | 051 | 034 | 8 | 07 | | | | | | | | |
| 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. $\times 10^3$ | 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 | 0562 | 3041 | 2400 | 0039167 | 0000 | 14675 | 736 | | | | | | | | | | | | |
| 016 | | OBS | 0000 | 0562 | 30414 | 2400 | | | 14675 | 736 | | | | | | | | | | | | |
| 016 | | OBS | 0005 | 0363 | 31747 | 2526 | | | 14610 | 724 | | | | | | | | | | | | |
| | | STD | 0010 | 0307 | 3182 | 2537 | 0026155 | 0033 | 14586 | 734 | | | | | | | | | | | | |
| 016 | | OBS | 0010 | 0307 | 31822 | 2537 | | | 14588 | 732 | | | | | | | | | | | | |
| | | STD | 0020 | -0017 | 3320 | 2668 | 0013657 | 0053 | 14463 | 810 | | | | | | | | | | | | |
| 016 | | OBS | 0026 | -0144 | 33784 | 2720 | | | 14415 | 841 | | | | | | | | | | | | |
| | | STD | 0030 | -0142 | 3389 | 2729 | 0007922 | 0063 | 14417 | 841 | | | | | | | | | | | | |
| | | STD | 0050 | -0132 | 3428 | 2760 | 0004953 | 0076 | 14430 | 843 | | | | | | | | | | | | |
| 016 | | OBS | 0051 | -0131 | 34293 | 2761 | | | 14431 | 843 | | | | | | | | | | | | |
| | | STD | 0075 | -0134 | 3445 | 2774 | 0003631 | 0087 | 14436 | 816 | | | | | | | | | | | | |
| 016 | | OBS | 0087 | -0135 | 34506 | 2778 | | | 14438 | 804 | | | | | | | | | | | | |
| | | STD | 0100 | -0136 | 3453 | 2780 | 0003032 | 0095 | 14440 | 792 | | | | | | | | | | | | |
| | | STD | 0125 | -0139 | 3456 | 2783 | 0002727 | 0102 | 14443 | 772 | | | | | | | | | | | | |
| 016 | | OBS | T0139 | -0140 | 34584 | 2785 | | | 14445 | 762 | | | | | | | | | | | | |

| REFERENCE CITY CODE | 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 SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER |
|----------------------------|-----------------|--------------|------------------|-------------------|---------------|------------------|--|--|----------------------|------------------------|---|--|---|---|---|----------------------|-------------|-----|----------------------|----------------|------|---------------------------|
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 73030N | 059272E | | 283 | 30 | 09 | 02 | 048 | 1967 | 011 | 0364 | 03 | 15 | 2 | | | 7 | 8 | | 0023 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | | | 06 | 24 | 14 | S10 | 268 | 055 | 038 | 8 | 11 | | | | | | |
| 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. $\times 10^3$ | 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 | 0416 | 3166 | 2514 | 0028361 | 0000 | 14630 | 766 | | | | | | | | | | | | |
| 049 | | OBS | 0000 | 0416 | 31655 | 2514 | | | 14630 | 766 | | | | | | | | | | | | |
| 049 | | OBS | 0005 | 0218 | 32639 | 2609 | | | 14559 | 867 | | | | | | | | | | | | |
| | | STD | 0010 | -0032 | 3364 | 2704 | 0010249 | 0019 | 14461 | 906 | | | | | | | | | | | | |
| 049 | | OBS | 0010 | -0032 | 33638 | 2704 | | | 14461 | 908 | | | | | | | | | | | | |
| | | STD | 0020 | -0128 | 3392 | 2731 | 0007738 | 0028 | 14422 | 885 | | | | | | | | | | | | |
| 049 | | OBS | 0025 | -0161 | 34030 | 2741 | | | 14409 | 860 | | | | | | | | | | | | |
| | | STD | 0030 | -0169 | 3408 | 2745 | 0006391 | 0035 | 14406 | 901 | | | | | | | | | | | | |
| | | STD | 0050 | -0185 | 3423 | 2757 | 0005196 | 0047 | 14404 | 925 | | | | | | | | | | | | |
| 049 | | OBS | 0050 | -0185 | 34229 | 2757 | | | 14404 | 925 | | | | | | | | | | | | |
| | | STD | 0075 | -0173 | 3434 | 2766 | 0004367 | 0059 | 14416 | 810 | | | | | | | | | | | | |
| 049 | | OBS | 0075 | -0173 | 34339 | 2766 | | | 14416 | 818 | | | | | | | | | | | | |
| | | STD | 0100 | -0178 | 3444 | 2774 | 0003572 | 0069 | 14419 | 794 | | | | | | | | | | | | |
| 049 | | OBS | 0100 | -0176 | 34439 | 2774 | | | 14419 | 794 | | | | | | | | | | | | |
| | | STD | 0125 | -0176 | 3452 | 2781 | 0002942 | 0077 | 14425 | 770 | | | | | | | | | | | | |
| | | STD | 0150 | -0175 | 3459 | 2786 | 0002410 | 0084 | 14431 | 762 | | | | | | | | | | | | |
| 049 | | OBS | 0150 | -0175 | 34588 | 2786 | | | 14431 | 762 | | | | | | | | | | | | |
| | | STD | 0200 | -0174 | 3466 | 2792 | 0001805 | 0094 | 14441 | 728 | | | | | | | | | | | | |
| 049 | | OBS | T0200 | -0174 | 34664 | 2792 | | | 14441 | 728 | | | | | | | | | | | | |
| | | STD | 0250 | -0174 | 3471 | 2796 | 0001428 | 0102 | 14450 | 716 | | | | | | | | | | | | |
| 049 | | OBS | T0295 | -0173 | 34750 | 2799 | | | 14459 | 681 | | | | | | | | | | | | |
| | | STD | 0300 | -0173 | 3475 | 2799 | 0001091 | 0109 | 14459 | 680 | | | | | | | | | | | | |
| 049 | | OBS | T0348 | -0167 | 34779 | 2802 | | | 14470 | 624 | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | |
|--------|----|--------|---------|-----|----|----|----|-----|------|-----|------|----|----|---|--|--|--|---|---|--|------|
| 311165 | EW | 73170N | 058000E | 283 | 38 | 09 | 02 | 080 | 1967 | 013 | 0291 | 03 | 12 | 2 | | | | 7 | 8 | | 0024 |
|--------|----|--------|---------|-----|----|----|----|-----|------|-----|------|----|----|---|--|--|--|---|---|--|------|

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

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|---|----|--|
| 07 | 19 | 12 | S09 | 240 | 064 | 046 | 7 | 10 | |
|----|----|----|-----|-----|-----|-----|---|----|--|

| MESSNGR TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta \sigma$ DYN. M. $\times 10^2$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S.C.C. |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|--|----------------|---------------------|---|--|---|---|---|----|--------|
| | | STD | 0000 | 0263 | 3159 | 2522 | 0027560 | 0000 | 14564 | 843 | | | | | | | |
| 080 | | OBS | 0000 | 0263 | 31591 | 2522 | | | 14564 | 843 | | | | | | | |
| 080 | | OBS | 0005 | 0227 | 31933 | 2552 | | | 14553 | 852 | | | | | | | |
| | | STD | 0010 | 0054 | 3256 | 2614 | 0016857 | 0023 | 14485 | 900 | | | | | | | |
| 080 | | OBS | 0010 | 0054 | 32563 | 2614 | | | 14465 | 900 | | | | | | | |
| | | STD | 0020 | -0113 | 3376 | 2717 | 0009011 | 0037 | 14427 | 869 | | | | | | | |
| 080 | | OBS | 0025 | -0169 | 34172 | 2752 | | | 14407 | 863 | | | | | | | |
| | | STD | 0030 | -0172 | 3421 | 2756 | 0005386 | 0044 | 14407 | 890 | | | | | | | |
| | | STD | 0050 | -0179 | 3431 | 2764 | 0004558 | 0054 | 14408 | 924 | | | | | | | |
| 080 | | OBS | 0050 | -0179 | 34314 | 2764 | | | 14408 | 924 | | | | | | | |
| | | STD | 0075 | -0181 | 3439 | 2770 | 0003962 | 0065 | 14413 | 794 | | | | | | | |
| 080 | | OBS | 0075 | -0181 | 34389 | 2770 | | | 14413 | 794 | | | | | | | |
| | | STD | 0100 | -0176 | 3448 | 2777 | 0003293 | 0074 | 14420 | 763 | | | | | | | |
| 080 | | OBS | 0101 | -0176 | 34475 | 2777 | | | 14421 | 782 | | | | | | | |
| | | STD | 0125 | -0175 | 3455 | 2782 | 0002670 | 0082 | 14426 | 774 | | | | | | | |
| | | STD | 0150 | -0173 | 3458 | 2786 | 0002477 | 0086 | 14431 | 760 | | | | | | | |
| 080 | | OBS | 0152 | -0173 | 34584 | 2786 | | | 14432 | 765 | | | | | | | |
| | | STD | 0200 | -0167 | 3467 | 2793 | 0001780 | 0094 | 14444 | 713 | | | | | | | |
| 080 | | OBS | T0203 | -0167 | 34673 | 2793 | | | 14444 | 710 | | | | | | | |
| | | STD | 0250 | -0168 | 3472 | 2797 | 0001370 | 0107 | 14453 | 677 | | | | | | | |
| 080 | | OBS | T0276 | -0171 | 34734 | 2798 | | | 14456 | 660 | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | |
|--------|----|--------|---------|-----|----|----|----|-----|------|-----|------|----|----|---|--|--|--|---|---|--|------|
| 311165 | EW | 74060N | 059510E | 283 | 49 | 09 | 02 | 140 | 1967 | 014 | 0200 | 02 | 16 | 2 | | | | 5 | 8 | | 0025 |
|--------|----|--------|---------|-----|----|----|----|-----|------|-----|------|----|----|---|--|--|--|---|---|--|------|

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

| | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|---|----|--|
| 06 | 19 | 12 | S10 | 235 | 030 | 033 | 7 | 10 | |
|----|----|----|-----|-----|-----|-----|---|----|--|

| MESSNGR TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta \sigma$ DYN. M. $\times 10^2$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S.C.C. |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|--|----------------|---------------------|---|--|---|---|---|----|--------|
| | | STD | 0000 | 0140 | 3173 | 2542 | 0025732 | 0000 | 14511 | 855 | | | | | | | |
| 14 | | OBS | 0000 | 0140 | 31727 | 2542 | | | 14511 | 855 | | | | | | | |
| 14 | | OBS | 0005 | 0130 | 31816 | 2549 | | | 14509 | 816 | | | | | | | |
| | | STD | 0010 | -0109 | 3379 | 2719 | 0009822 | 0017 | 14427 | 960 | | | | | | | |
| 14 | | OBS | 0010 | -0109 | 33787 | 2719 | | | 14427 | 960 | | | | | | | |
| | | STD | 0020 | -0152 | 3408 | 2744 | 0006442 | 0025 | 14413 | 863 | | | | | | | |
| 14 | | OBS | 0025 | -0167 | 34183 | 2753 | | | 14408 | 820 | | | | | | | |
| | | STD | 0030 | -0169 | 3421 | 2756 | 0005317 | 0031 | 14407 | 816 | | | | | | | |
| | | STD | 0050 | -0174 | 3435 | 2767 | 0004310 | 0040 | 14411 | 760 | | | | | | | |
| 14 | | OBS | 0050 | -0174 | 34348 | 2767 | | | 14411 | 784 | | | | | | | |
| | | STD | 0075 | -0178 | 3442 | 2772 | 0003764 | 0050 | 14415 | 774 | | | | | | | |
| 14 | | OBS | 0076 | -0178 | 34419 | 2772 | | | 14415 | 773 | | | | | | | |
| | | STD | 0100 | -0176 | 3447 | 2777 | 0003334 | 0059 | 14420 | 769 | | | | | | | |
| 14 | | OBS | 0101 | -0176 | 34475 | 2777 | | | 14421 | 769 | | | | | | | |
| | | STD | 0125 | -0174 | 3452 | 2782 | 0002447 | 0067 | 14426 | 759 | | | | | | | |
| | | STD | 0150 | -0172 | 3455 | 2786 | 0002480 | 0074 | 14432 | 744 | | | | | | | |
| 14 | | OBS | 0153 | -0172 | 34581 | 2786 | | | 14433 | 742 | | | | | | | |
| | | STD | 0200 | -0153 | 3467 | 2792 | 0001620 | 0085 | 14450 | 697 | | | | | | | |
| 14 | | OBS | T0203 | -0154 | 34682 | 2793 | | | 14451 | 692 | | | | | | | |
| | | STD | 0250 | -0157 | 3473 | 2797 | 0001316 | 0093 | 14456 | 647 | | | | | | | |
| 14 | | OBS | T0250 | -0157 | 34732 | 2797 | | | 14456 | 647 | | | | | | | |

| REFERENCE CRUISE ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 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 | | | |
| 311165 | EW | 73550N | 060580E | 282 | 30 | 09 | 02 | 154 | 1967 | | 015 | 0137 | 01 | 16 | 2 | | | 5 8 | 0026 | |
| | | | | | WIND | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | |
| | | | | | | | 13 | 509 | 226 | 028 | 022 | 7 | | | | | | | | |

| MESSNGR 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 $\mu\text{g} \cdot \text{at}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$ | pH | COND. |
|----------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------|
| | | STD | 0000 | 0295 | 3051 | 2433 | 0036010 | 0000 | 14563 | 747 | | | | | | | |
| 154 | | OBS | 0000 | 0295 | 30508 | 2433 | | | 14563 | 797 | | | | | | | |
| 154 | | OBS | 0005 | 0200 | 31180 | 2494 | | | 14531 | 840 | | | | | | | |
| | | STD | 0010 | 0004 | 3236 | 2600 | 0020171 | 0028 | 14400 | 944 | | | | | | | |
| 154 | | OBS | 0010 | 0004 | 32360 | 2600 | | | 14400 | 944 | | | | | | | |
| | | STD | 0020 | -0113 | 3354 | 2659 | 0010707 | 0044 | 14425 | 942 | | | | | | | |
| 156 | | OBS | 0025 | -0150 | 33958 | 2735 | | | 14413 | 941 | | | | | | | |
| | | STD | 0030 | -0158 | 3401 | 2739 | 0006957 | 0052 | 14411 | 910 | | | | | | | |
| | | STD | 0050 | -0179 | 3421 | 2756 | 0005356 | 0065 | 14407 | 821 | | | | | | | |
| 156 | | OBS | 0051 | -0180 | 34215 | 2756 | | | 14407 | 816 | | | | | | | |
| | | STD | 0075 | -0181 | 3441 | 2772 | 0003601 | 0076 | 14413 | 786 | | | | | | | |
| 156 | | OBS | 0076 | -0181 | 34420 | 2773 | | | 14413 | 787 | | | | | | | |
| | | STD | 0100 | -0156 | 3452 | 2780 | 0003014 | 0085 | 14430 | 796 | | | | | | | |
| 156 | | OBS | 0101 | -0155 | 34523 | 2780 | | | 14431 | 796 | | | | | | | |
| | | STD | 0125 | -0175 | 3457 | 2785 | 0002568 | 0092 | 14427 | 782 | | | | | | | |
| 156 | | OBS | 0126 | -0175 | 34575 | 2785 | | | 14427 | 781 | | | | | | | |

| REFERENCE CRUISE ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 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 | | | |
| 311165 | EW | 73391N | 062280E | 282 | 32 | 09 | 02 | 183 | 1967 | | 016 | 0117 | 01 | 17 | 3 | | | 5 8 | 0027 | |
| | | | | | WIND | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | |
| | | | | | | | 19 | 513 | 226 | 044 | 037 | 7 | | | | | | | | |

| MESSNGR 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 $\mu\text{g} \cdot \text{at}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$ | pH | COND. |
|----------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------|
| | | STD | 0000 | 0206 | 2920 | 2336 | 0045334 | 0000 | 14505 | 835 | | | | | | | |
| 184 | | OBS | 0000 | 0206 | 29201 | 2336 | | | 14506 | 835 | | | | | | | |
| 184 | | OBS | 0005 | -0004 | 30461 | 2447 | | | 14429 | 844 | | | | | | | |
| | | STD | 0010 | -0104 | 3246 | 2612 | 0016999 | 0032 | 14411 | 909 | | | | | | | |
| 184 | | OBS | 0010 | -0104 | 32462 | 2612 | | | 14411 | 909 | | | | | | | |
| | | STD | 0020 | -0154 | 3357 | 2703 | 0010351 | 0047 | 14405 | 863 | | | | | | | |
| 184 | | OBS | 0025 | -0171 | 33957 | 2735 | | | 14405 | 827 | | | | | | | |
| | | STD | 0030 | -0172 | 3402 | 2740 | 0005846 | 0055 | 14404 | 826 | | | | | | | |
| | | STD | 0050 | -0174 | 3423 | 2757 | 0005215 | 0055 | 14410 | 821 | | | | | | | |
| 184 | | OBS | 0051 | -0174 | 34244 | 2758 | | | 14410 | 821 | | | | | | | |
| | | STD | 0075 | -0169 | 3444 | 2774 | 0003603 | 0079 | 14414 | 812 | | | | | | | |
| 186 | | OBS | 0076 | -0169 | 34447 | 2775 | | | 14419 | 911 | | | | | | | |
| | | STD | 0100 | -0168 | 3451 | 2780 | 0003056 | 0087 | 14425 | 794 | | | | | | | |
| 186 | | OBS | 0101 | -0168 | 34513 | 2780 | | | 14425 | 793 | | | | | | | |

| REFERENCE CRUISE ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 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 | | | |
| 311165 | EW | 73230N | 063560E | 282 | 33 | 09 | 02 | 210 | 1967 | | 017 | 0101 | 01 | 19 | 3 | | | 5 8 | 0028 | |
| | | | | | WIND | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | |
| | | | | | | | 19 | 513 | 234 | 047 | 041 | 7 | | | | | | | | |

| MESSNGR 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 $\mu\text{g} \cdot \text{at}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$ | pH | COND. |
|----------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------|
| | | STD | 0000 | 0268 | 2787 | 2226 | 0055845 | 0000 | 14516 | 823 | | | | | | | |
| | | OBS | 0000 | 0268 | 27872 | 2226 | | | 14516 | 823 | | | | | | | |
| 211 | | OBS | 0005 | 0266 | 27929 | 2230 | | | 14516 | 825 | | | | | | | |
| | | STD | 0010 | 0088 | 3017 | 2420 | 0037292 | 0047 | 14466 | 855 | | | | | | | |
| | | STD | 0020 | -0164 | 3342 | 2691 | 0011517 | 0071 | 14398 | 868 | | | | | | | |
| 211 | | OBS | 0020 | -0164 | 33415 | 2691 | | | 14398 | 868 | | | | | | | |
| | | STD | 0030 | -0170 | 3377 | 2720 | 0008769 | 0081 | 14402 | 844 | | | | | | | |
| 211 | | OBS | 0046 | -0175 | 34187 | 2754 | | | 14408 | 801 | | | | | | | |
| | | STD | 0050 | -0174 | 3420 | 2755 | 0005438 | 0095 | 14409 | 798 | | | | | | | |
| | | STD | 0075 | -0167 | 3429 | 2762 | 0004785 | 0106 | 14418 | 776 | | | | | | | |
| 211 | | OBS | 0094 | -0161 | 34353 | 2767 | | | 14425 | 760 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARSDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-----------------------|----------|----------------|-----------|------------|----------------|--------------------|--|-------------------------------|----------------|----------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|------|--------------|-------------|-----|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1" | MO | | DAY | HR.1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT | PER | |
| 311165 | | EW | 73068N | 065260E | 282 | 35 | 03 | 02 | 239 | 1967 | | 018 | 0119 | 01 | 19 | 3 | | 1 | 2 | 0029 |
| WATER | | WIND | | BARO-METER | | AIR TEMP °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | | SPEED OR FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | | |
| 20 | | S12 | | 254 | | 046 039 | | 7 07 | | | | | | | | | | | | |
| MESSING TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY (10 ³) | Σ Δ D (CM) (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. COND. | | | |
| | | STU | 0000 | 0406 | 3821 | 2242 | 0034298 | 0000 | 14560 | 786 | | | | | | | | | | |
| 239 | | OBV | 0006 | 0436 | 2821 | 2242 | | | 14560 | 786 | | | | | | | | | | |
| 239 | | OBV | 0005 | 0321 | 29336 | 2338 | | | 14559 | 821 | | | | | | | | | | |
| | | STU | 0010 | 0256 | 29755 | 2375 | 0041458 | 0048 | 14557 | 841 | | | | | | | | | | |
| 239 | | OBV | 0010 | 0256 | 29755 | 2376 | | | 14557 | 841 | | | | | | | | | | |
| | | STU | 0020 | -0064 | 3217 | 2587 | 0021371 | 0074 | 14429 | 824 | | | | | | | | | | |
| 239 | | OBV | 0025 | -0163 | 33023 | 2659 | | | 14394 | 816 | | | | | | | | | | |
| | | STU | 0030 | -0151 | 3321 | 2674 | 0013116 | 0097 | 14423 | 804 | | | | | | | | | | |
| | | STU | 0050 | -0132 | 3381 | 2722 | 0008584 | 0118 | 14423 | 777 | | | | | | | | | | |
| 239 | | OBV | 0050 | -0132 | 33806 | 2722 | | | 14423 | 777 | | | | | | | | | | |
| | | STU | 0075 | -0172 | 3423 | 2757 | 0035213 | 0135 | 14415 | 796 | | | | | | | | | | |
| 239 | | OBV | 0075 | -0172 | 3423 | 2757 | | | 14415 | 796 | | | | | | | | | | |
| | | STU | 0100 | -0165 | 3435 | 2762 | 0004711 | 0148 | 14423 | 775 | | | | | | | | | | |
| 239 | | OBV | 0100 | -0165 | 34295 | 2762 | | | 14423 | 775 | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARSDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-----------------------|----------|----------------|-----------|------------|----------------|--------------------|--|-------------------------------|----------------|----------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|------|--------------|-------------|-----|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1" | MO | | DAY | HR.1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT | PER | |
| 311167 | | EW | 7347N | 06650E | 282 | 35 | 03 | 02 | 1967 | | 018 | 0073 | 01 | 10 | 3 | | | 0 | 1 | 0030 |
| WATER | | WIND | | BARO-METER | | AIR TEMP °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | | SPEED OR FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | | |
| 14 | | 18 | | 258 | | 051 046 | | 4 05 | | | | | | | | | | | | |
| MESSING TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY (10 ³) | Σ Δ D (CM) (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. COND. | | | |
| | | STU | 000 | 0435 | 2534 | 2485 | 78572 | 0000 | 14551 | 789 | | | | | | | | | | |
| 27 | | B | 0000 | 0435 | 2534 | 2485 | | | 14551 | 789 | | | | | | | | | | |
| 27 | | B | 0005 | 0435 | 25376 | 2485 | | | 14551 | 793 | | | | | | | | | | |
| | | T | 0010 | 0256 | 2762 | 2277 | 0017637 | 0058 | 14556 | 823 | | | | | | | | | | |
| 27 | | B | 0010 | 0256 | 2762 | 2277 | | | 14556 | 823 | | | | | | | | | | |
| | | T | 0020 | -0132 | 3321 | 2514 | 0017871 | 0111 | 14427 | 586 | | | | | | | | | | |
| 27 | | OBV | 0025 | -0132 | 3321 | 2514 | | | 14427 | 576 | | | | | | | | | | |
| | | STU | 0050 | -0133 | 3274 | 2681 | 0017927 | 0113 | 14427 | 872 | | | | | | | | | | |
| | | T | 0050 | -0133 | 3274 | 2681 | | | 14427 | 872 | | | | | | | | | | |
| | | OBV | 0100 | -0165 | 3423 | 2741 | 0017972 | 0115 | 14421 | 574 | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARSDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-----------------------|----------|----------------|-----------|------------|----------------|--------------------|--|-------------------------------|----------------|----------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|------|--------------|-------------|-----|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1" | MO | | DAY | HR.1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT | PER | |
| 311168 | | EW | 7347N | 06650E | 282 | 35 | 03 | 02 | 1967 | | 018 | 0022 | 01 | 10 | 3 | | | 0 | 1 | 0031 |
| WATER | | WIND | | BARO-METER | | AIR TEMP °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | | SPEED OR FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | | |
| 17 | | 18 | | 258 | | 051 046 | | 4 05 | | | | | | | | | | | | |
| MESSING TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY (10 ³) | Σ Δ D (CM) (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. COND. | | | |
| | | T | 000 | 0435 | 2534 | 2485 | 78572 | 0000 | 14551 | 789 | | | | | | | | | | |
| 48 | | B | 0000 | 0435 | 2534 | 2485 | | | 14551 | 789 | | | | | | | | | | |
| 48 | | B | 0005 | 0435 | 25376 | 2485 | | | 14551 | 793 | | | | | | | | | | |
| | | T | 0010 | 0256 | 2762 | 2277 | 0017637 | 0058 | 14556 | 823 | | | | | | | | | | |
| 48 | | B | 0010 | 0256 | 2762 | 2277 | | | 14556 | 823 | | | | | | | | | | |
| | | T | 0020 | -0132 | 3321 | 2514 | 0017871 | 0111 | 14427 | 586 | | | | | | | | | | |
| 48 | | OBV | 0025 | -0132 | 3321 | 2514 | | | 14427 | 586 | | | | | | | | | | |
| | | STU | 0050 | -0133 | 3274 | 2681 | 0017927 | 0113 | 14427 | 872 | | | | | | | | | | |
| | | T | 0050 | -0133 | 3274 | 2681 | | | 14427 | 872 | | | | | | | | | | |
| | | OBV | 0100 | -0165 | 3423 | 2741 | 0017972 | 0115 | 14421 | 574 | | | | | | | | | | |
| 48 | | OBV | 0100 | -0165 | 3423 | 2741 | | | 14421 | 574 | | | | | | | | | | |

| 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 | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|--------------|----------------------|----------------------|--------------------|------------------------|---|---------------------------------------|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-------------|-----|----------------------|----------------------------|---------------------------|-------|--|------|--|--------------|--|------------------------|--------------------|--|-------------------------|---------------|---------------|------|----------------------|-------------|-------------|--------------|--------------------|----|----|----|-----|-----|-----|-----|---|----|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | | | SEA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 73337N | 069120E | 282 | 35 | 09 | 03 | 099 | 1967 | 021 | 0018 | 00 | 18 | 3 | | | | 0 | 2 | 0032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> <th>VIS. CODE</th> <th>NO. OBS. DEPTHS</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>04</td> <td>18</td> <td>S12</td> <td>232</td> <td>063</td> <td>048</td> <td>8</td> <td>04</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | WIND | | AIR TEMP. °C | | BARO- METER (mb) | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | 12 | 04 | 18 | S12 | 232 | 063 | 048 | 8 | 04 | |
| WATER | | WIND | | AIR TEMP. °C | | BARO- METER (mb) | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | | VIS. CODE | NO. OBS. DEPTHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 04 | 18 | S12 | 232 | 063 | 048 | 8 | 04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME OF HR /10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - dl/l | TOTAL-P µg - dl/l | NO ₂ -N µg - dl/l | NO ₃ -N µg - dl/l | SiO ₄ -Si µg - dl/l | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0492 | 0932 | 0743 | 0199780 | 0000 | 14373 | 830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 099 | | OBS | 0000 | 0492 | 09322 | 0743 | | | 14373 | 830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 099 | | OBS | 0005 | 0350 | 14333 | 1146 | | | 14375 | 773 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 099 | | STD | 0010 | -0092 | 2607 | 2096 | 0068258 | 0134 | 14328 | 706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 099 | | OBS | 0010 | -0092 | 26071 | 2096 | | | 14328 | 706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 099 | | OBS | 0013 | -0080 | 26323 | 2116 | | | 14338 | 661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|--------------|----------------------|----------------------|--------------------|------------------------|---|---------------------------------------|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-------------|-----|----------------------|----------------------------|---------------------------|-------|--|------|--|--------------|--|------------------------|--------------------|--|-------------------------|---------------|---------------|------|----------------------|-------------|-------------|--------------|--------------------|----|----|----|-----|-----|-----|-----|---|----|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | | | SEA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 73500N | 067120E | 284 | 37 | 09 | 03 | 127 | 1967 | 022 | 0042 | 00 | 21 | 2 | | | | 3 | 2 | 0033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| WATER | | WIND | | AIR TEMP. °C | | BARO- METER (mb) | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | | VIS. CODE | NO. OBS. DEPTHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 10 | 24 | S13 | 232 | 063 | 048 | 8 | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME OF HR /10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - dl/l | TOTAL-P µg - dl/l | NO ₂ -N µg - dl/l | NO ₃ -N µg - dl/l | SiO ₄ -Si µg - dl/l | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0389 | 2145 | 1708 | 0105661 | 0000 | 14484 | 822 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0000 | 0389 | 21445 | 1708 | | | 14484 | 822 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0005 | 0236 | 26938 | 2153 | | | 14490 | 832 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | STD | 0010 | 0152 | 2882 | 2308 | 0048003 | 0077 | 14483 | 835 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0010 | 0162 | 28817 | 2308 | | | 14483 | 835 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0015 | 0777 | 29887 | 2380 | | | 14457 | 858 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | STD | 0020 | -0127 | 3248 | 2614 | 0018829 | 0110 | 14402 | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0020 | -0127 | 32475 | 2614 | | | 14402 | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0025 | -0156 | 32993 | 2657 | | | 14396 | 842 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | STD | 0030 | -0155 | 3326 | 2678 | 0012753 | 0126 | 14401 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | OBS | 0030 | -0155 | 33256 | 2678 | | | 14401 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|--------------|----------------------|----------------------|--------------------|------------------------|---|---------------------------------------|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-------------|-----|----------------------|----------------------------|---------------------------|-------|--|------|--|--------------|--|------------------------|--------------------|--|-------------------------|---------------|---------------|------|----------------------|-------------|-------------|--------------|--------------------|--|--|----|-----|-----|-----|-----|---|----|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | | | SEA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 74095N | 066220E | 282 | 40 | 09 | 03 | 156 | 1967 | 023 | 0115 | 01 | 22 | 2 | | | | 4 | 2 | 0034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">BARO- METER (mb)</th> <th colspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR.</th> <th>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> <th>VIS. CODE</th> <th>NO. OBS. DEPTHS</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>18</td> <td>S10</td> <td>235</td> <td>045</td> <td>040</td> <td>8</td> <td>07</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | WIND | | AIR TEMP. °C | | BARO- METER (mb) | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | | | 18 | S10 | 235 | 045 | 040 | 8 | 07 | |
| WATER | | WIND | | AIR TEMP. °C | | BARO- METER (mb) | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | | VIS. CODE | NO. OBS. DEPTHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 18 | S10 | 235 | 045 | 040 | 8 | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME OF HR /10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - dl/l | TOTAL-P µg - dl/l | NO ₂ -N µg - dl/l | NO ₃ -N µg - dl/l | SiO ₄ -Si µg - dl/l | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0197 | 2782 | 2226 | 0055649 | 0000 | 14463 | 827 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0000 | 0197 | 27815 | 2226 | | | 14483 | 827 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0005 | 0152 | 28866 | 2314 | | | 14479 | 846 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0010 | 0037 | 3051 | 2450 | 0034460 | 0045 | 14449 | 878 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0020 | -0128 | 3285 | 2644 | 0015324 | 0070 | 14407 | 910 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0020 | -0128 | 32853 | 2644 | | | 14407 | 910 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0030 | -0149 | 3311 | 2666 | 0013889 | 0095 | 14402 | 862 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0045 | -0159 | 33474 | 2696 | | | 14405 | 795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0050 | -0148 | 3356 | 2792 | 0010424 | 0110 | 14412 | 767 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0070 | -0120 | 33889 | 2736 | | | 14435 | 696 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0075 | -0120 | 3411 | 2746 | 0006280 | 0130 | 14437 | 697 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0095 | -0127 | 34671 | 2742 | | | 14445 | 703 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | STD | 0100 | -0130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 156 | | OBS | 0117 | -0145 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1:10 | LONGITUDE 1:10 | MARS DEN INDICATOR | MARS DEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-----------|------------------|-------------------|-----------------------|-----------------|----|--------------------|-----|------|--------------|-----|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|-----|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR. | 10' | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT PER | SEA | |

| | | | | | | | | | | | | | | | | | | | |
|------------|------------|--------|-------------|-----------------|--------------|----------|-----------|-----------------|----------------------|-----|------|----|----|---|--|--|---|--|------|
| 311165 | EW | 74245N | 064530E | 282 | 44 | 07 | 03 | 182 | 1964 | 024 | 0140 | 01 | 21 | 3 | | | 0 | | 0035 |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED (KTS) | | DRY BULB | WET BULB | | | | | | | | | | | | | |
| | | | 18 | 012 | 226 | 040 | 033 | 5 | 07 | | | | | | | | | | |

| MESSING TIME HR. 1:10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S.‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | SOUND 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 | 0162 | 2935 | 2351 | 0043657 | 0000 | 14489 | 822 | | | | | | | |
| 183 | 085 | 0000 | 0162 | 29161 | 2351 | | | | 14489 | 822 | | | | | | | |
| 183 | 085 | 0005 | 0160 | 29384 | 2353 | | | | 14489 | 833 | | | | | | | |
| | | STD | 0010 | 0159 | 3009 | 2410 | 0038279 | 0041 | 14499 | 831 | | | | | | | |
| 183 | 085 | 0010 | 0159 | 30095 | 2410 | | | | 14499 | 831 | | | | | | | |
| | | STD | 0020 | -0171 | 3231 | 2549 | 0020261 | 0070 | 14460 | 879 | | | | | | | |
| 183 | 085 | 0020 | -0146 | 32104 | 2605 | | | | 14462 | 887 | | | | | | | |
| | | STD | 0030 | -0144 | 3227 | 2681 | 0012508 | 0087 | 14405 | 854 | | | | | | | |
| | | STD | 0050 | -0151 | 3385 | 2726 | 0008145 | 0107 | 14415 | 770 | | | | | | | |
| 183 | 085 | 0050 | -0151 | 32506 | 2726 | | | | 14415 | 770 | | | | | | | |
| | | STD | 0075 | -0129 | 3418 | 2752 | 0002952 | 0125 | 14434 | 714 | | | | | | | |
| 183 | 085 | 0075 | -0129 | 34184 | 2752 | | | | 14434 | 714 | | | | | | | |
| 183 | 085 | 0099 | -0129 | 34287 | 2754 | | | | 14439 | 708 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1:10 | LONGITUDE 1:10 | MARS DEN INDICATOR | MARS DEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-----------|------------------|-------------------|-----------------------|-----------------|----|--------------------|-----|------|--------------|-----|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|-----|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR. | 10' | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT PER | SEA | |

| | | | | | | | | | | | | | | | | | | | |
|------------|------------|--------|-------------|-----------------|--------------|----------|-----------|-----------------|----------------------|-----|-----|----|----|---|--|--|---|---|------|
| 311165 | EW | 74407N | 063010E | 284 | 42 | 03 | 10 | 187 | 1967 | 026 | 079 | 01 | 21 | 2 | | | 4 | 2 | 0036 |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED (KTS) | | DRY BULB | WET BULB | | | | | | | | | | | | | |
| | | | 19 | 010 | 225 | 036 | 023 | 5 | 05 | | | | | | | | | | |

| MESSING TIME HR. 1:10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S.‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | SOUND 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 | 0134 | 3113 | 2412 | 0020010 | 0021 | 14465 | 837 | | | | | | | |
| 21 | 085 | 0000 | 0134 | 31125 | 2412 | | | | 14465 | 837 | | | | | | | |
| 21 | 085 | 0005 | -0136 | 31677 | 2542 | | | | 14427 | 754 | | | | | | | |
| | | STD | 0010 | -0136 | 32177 | 2642 | 0020745 | 0017 | 14427 | 755 | | | | | | | |
| 21 | 085 | 0010 | -0136 | 32177 | 2642 | | | | 14427 | 755 | | | | | | | |
| | | STD | 0020 | -0137 | 32577 | 2712 | 0019474 | 0041 | 14424 | 767 | | | | | | | |
| 21 | 085 | 0020 | -0137 | 32577 | 2712 | | | | 14424 | 767 | | | | | | | |
| | | STD | 0030 | -0137 | 32977 | 2743 | 0012222 | 0046 | 14427 | 757 | | | | | | | |
| 21 | 085 | 0030 | -0137 | 32977 | 2743 | | | | 14427 | 757 | | | | | | | |
| 21 | 085 | 0075 | -0135 | 32947 | 2712 | | | | 14424 | 764 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1:10 | LONGITUDE 1:10 | MARS DEN INDICATOR | MARS DEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-----------|------------------|-------------------|-----------------------|-----------------|----|--------------------|-----|------|--------------|-----|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|-----|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR. | 10' | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT PER | SEA | |

| | | | | | | | | | | | | | | | | | | | |
|------------|------------|--------|-------------|-----------------|--------------|----------|-----------|-----------------|----------------------|-----|-----|----|----|---|--|--|---|---|------|
| 311165 | EW | 74477N | 061020E | 284 | 42 | 03 | 21 | 187 | 1967 | 026 | 034 | 03 | 19 | 2 | | | 4 | 5 | 0037 |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED (KTS) | | DRY BULB | WET BULB | | | | | | | | | | | | | |
| | | | 21 | 021 | 218 | 221 | 010 | 11 | | | | | | | | | | | |

| MESSING TIME HR. 1:10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S.‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | SOUND 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 | 0188 | 3172 | 2474 | 0022138 | 0015 | 14422 | 812 | | | | | | | |
| 239 | 085 | 0000 | 0188 | 31722 | 2474 | | | | 14422 | 812 | | | | | | | |
| 239 | 085 | 0005 | -0185 | 32175 | 2574 | | | | 14404 | 825 | | | | | | | |
| | | STD | 0010 | -0185 | 32775 | 2674 | 0020511 | 0024 | 14404 | 790 | | | | | | | |
| 239 | 085 | 0010 | -0185 | 32775 | 2674 | | | | 14404 | 790 | | | | | | | |
| | | STD | 0020 | -0187 | 33274 | 2712 | 0020355 | 0038 | 14417 | 802 | | | | | | | |
| 239 | 085 | 0020 | -0187 | 33274 | 2712 | | | | 14417 | 802 | | | | | | | |
| | | STD | 0030 | -0184 | 33772 | 2732 | 0017493 | 0047 | 14427 | 833 | | | | | | | |
| 239 | 085 | 0030 | -0184 | 33772 | 2732 | | | | 14427 | 833 | | | | | | | |
| | | STD | 0040 | -0184 | 34272 | 2752 | 0017028 | 0047 | 14411 | 775 | | | | | | | |
| 239 | 085 | 0040 | -0184 | 34272 | 2752 | | | | 14411 | 775 | | | | | | | |
| | | STD | 0075 | -0174 | 34574 | 2772 | 0017075 | 0079 | 14416 | 777 | | | | | | | |
| 239 | 085 | 0075 | -0174 | 34574 | 2772 | | | | 14416 | 777 | | | | | | | |
| | | STD | 0100 | -0167 | 34974 | 2776 | 0013375 | 0081 | 14424 | 760 | | | | | | | |
| 239 | 085 | 0100 | -0167 | 34974 | 2776 | | | | 14424 | 760 | | | | | | | |
| | | STD | 0125 | -0188 | 34524 | 2781 | 0022965 | 0044 | 14429 | 753 | | | | | | | |
| 239 | 085 | 0125 | -0187 | 34577 | 2789 | | | | 14434 | 745 | | | | | | | |
| | | STD | 0150 | -0187 | 34774 | 2755 | 0022972 | 0046 | 14434 | 745 | | | | | | | |
| 239 | 085 | 0150 | -0184 | 34888 | 2712 | | | | 14400 | 709 | | | | | | | |
| | | STD | 0200 | -0185 | 34884 | 2712 | 0022016 | 0027 | 14400 | 709 | | | | | | | |
| 239 | 085 | 0200 | -0185 | 34884 | 2712 | | | | 14400 | 709 | | | | | | | |
| | | STD | 0250 | -0162 | 34770 | 2715 | 0022542 | 0116 | 14405 | 660 | | | | | | | |
| 239 | 085 | 0250 | -0162 | 34774 | 2744 | | | | 14402 | 660 | | | | | | | |
| 239 | 085 | 0300 | -0162 | 34734 | 2744 | | | | 14402 | 660 | | | | | | | |
| 239 | 085 | 0344 | -0164 | 34754 | 2690 | | | | 14410 | 615 | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | NO. OF HOURLY SPLS | 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 | |
| 311165 | | EW | 75305N | 065460E | | 282 | 55 | 09 | 04 | 050 | 1967 | U27 | | 0326 | 03 | 19 | 3 | | | 45 | 9 | 9 | 0038 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | |
| | | | | | | 05 | 19 | 23 | SU5 | 213 | 027 | 024 | 0 | 10 | | | | | | | | | |

| 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 | 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 | 0161 | 3210 | 2570 | 0023031 | 0000 | 14526 | 814 | | | | | | | |
| 056 | | OBS | 0000 | 0161 | 32095 | 2570 | | | 14526 | 814 | | | | | | | |
| 056 | | OBS | 0005 | 0159 | 32099 | 2570 | | | 14526 | 816 | | | | | | | |
| | | STD | 0010 | 0065 | 3245 | 2604 | 0019783 | 0021 | 14489 | 870 | | | | | | | |
| 056 | | OBS | 0010 | 0065 | 32449 | 2604 | | | 14489 | 878 | | | | | | | |
| | | STD | 0020 | -0103 | 3349 | 2695 | 0011112 | 0037 | 14428 | 840 | | | | | | | |
| 056 | | OBS | 0025 | -0157 | 33854 | 2726 | | | 14407 | 831 | | | | | | | |
| | | STD | 0030 | -0161 | 3393 | 2733 | 0007563 | 0046 | 14408 | 813 | | | | | | | |
| | | STD | 0050 | -0165 | 3418 | 2753 | 0005630 | 0059 | 14413 | 763 | | | | | | | |
| 056 | | OBS | 0050 | -0165 | 34179 | 2753 | | | 14413 | 763 | | | | | | | |
| | | STD | 0075 | -0165 | 3435 | 2767 | 0004304 | 0072 | 14420 | 757 | | | | | | | |
| 056 | | OBS | 0076 | -0165 | 34360 | 2768 | | | 14420 | 750 | | | | | | | |
| | | STD | 0100 | -0171 | 3443 | 2773 | 0003661 | 0087 | 14422 | 707 | | | | | | | |
| 056 | | OBS | 0101 | -0171 | 34436 | 2774 | | | 14422 | 706 | | | | | | | |
| | | STD | 0125 | -0172 | 3450 | 2779 | 0003108 | 0090 | 14427 | 726 | | | | | | | |
| | | STD | 0150 | -0172 | 3455 | 2782 | 0002710 | 0097 | 14432 | 746 | | | | | | | |
| 056 | | OBS | 0151 | -0172 | 34553 | 2783 | | | 14432 | 747 | | | | | | | |
| | | STD | 0200 | -0174 | 3464 | 2790 | 0001989 | 0109 | 14440 | 744 | | | | | | | |
| 056 | | OBS | T0202 | -0174 | 34648 | 2791 | | | 14441 | 743 | | | | | | | |
| | | STD | 0250 | -0170 | 3471 | 2796 | 0001440 | 0118 | 14451 | 713 | | | | | | | |
| | | STD | 0300 | -0158 | 3473 | 2797 | 0001304 | 0125 | 14466 | 655 | | | | | | | |
| 056 | | OBS | T0301 | -0158 | 34734 | 2798 | | | 14466 | 654 | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | NO. OF HOURLY SPLS | 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 | |
| 311165 | | EW | 75172N | 066300E | | 282 | 56 | 09 | 04 | 083 | 1967 | U28 | | 0236 | 02 | 12 | 3 | | | | 0 | 0 | 0039 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | |
| | | | | | | 06 | 23 | 24 | S14 | 225 | 048 | 036 | 8 | 09 | | | | | | | | | |

| 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 | 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 | 0146 | 2979 | 2386 | 0040489 | 0000 | 14487 | 860 | | | | | | | |
| 083 | | OBS | 0000 | 0146 | 29791 | 2386 | | | 14487 | 860 | | | | | | | |
| 083 | | OBS | 0005 | 0145 | 29789 | 2386 | | | 14488 | 830 | | | | | | | |
| | | STD | 0010 | 0133 | 2985 | 2391 | 0040003 | 0040 | 14484 | 833 | | | | | | | |
| 083 | | OBS | 0010 | 0133 | 29845 | 2391 | | | 14484 | 833 | | | | | | | |
| | | STD | 0020 | -0083 | 3264 | 2626 | 0017692 | 0009 | 14425 | 861 | | | | | | | |
| 083 | | OBS | 0025 | -0154 | 33606 | 2706 | | | 14406 | 868 | | | | | | | |
| | | STD | 0030 | -0152 | 3372 | 2715 | 0009199 | 0083 | 14409 | 862 | | | | | | | |
| | | STD | 0050 | -0146 | 3407 | 2743 | 0006526 | 0098 | 14420 | 837 | | | | | | | |
| 083 | | OBS | 0050 | -0146 | 34069 | 2743 | | | 14420 | 837 | | | | | | | |
| | | STD | 0075 | -0137 | 3427 | 2759 | 0004999 | 0113 | 14431 | 714 | | | | | | | |
| 083 | | OBS | 0076 | -0137 | 34277 | 2760 | | | 14432 | 712 | | | | | | | |
| | | STD | 0100 | -0140 | 3434 | 2765 | 0004443 | 0124 | 14435 | 716 | | | | | | | |
| 083 | | OBS | 0101 | -0140 | 34341 | 2765 | | | 14436 | 716 | | | | | | | |
| | | STD | 0125 | -0148 | 3443 | 2773 | 0003715 | 0135 | 14437 | 734 | | | | | | | |
| | | STD | 0150 | -0157 | 3450 | 2779 | 0003140 | 0143 | 14438 | 752 | | | | | | | |
| 083 | | OBS | 0151 | -0157 | 34503 | 2779 | | | 14438 | 753 | | | | | | | |
| | | STD | 0200 | -0170 | 3460 | 2787 | 0002291 | 0157 | 14439 | 730 | | | | | | | |
| 083 | | OBS | T0208 | -0178 | 34611 | 2788 | | | 14439 | 721 | | | | | | | |

| REFERENCE OBS CODE | ID. NO. | SHIP CODE | LATITUDE | LONGITUDE | DEPTH METER | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | |
|----------------------------|------------|--------------|-----------|-----------|----------------|------------------------|---|---------------------------------------|------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------|-----|----------------------|----------------|-----|---------------------------|------|------|
| | | | | | | 10' | 1' | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT |
| | | | | | | WATER COLOR CODE | WIND TRANS. DIR | WIND SPEED OF FORCE | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | | | SPECIAL OBSERVATIONS | | | | | | | | |
| 311165 | | EW | 74570N | 066350E | 282 | 46 | 03 | 04 | 113 | 1967 | | | | 029 | 0104 | | 01 | 18 | 2 | | 40 | 9 | 9 | 0040 |
| | | | | | | | | | 22 | 507 | 232 | 047 | 032 | 8 | 06 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - ml/l | TOTAL-P μg - ml/l | NO ₂ -N μg - ml/l | NO ₃ -N μg - ml/l | SIO ₄ -S μg - ml/l | pH | S C | | | | | | | |
| | | STD | 0000 | 0155 | 2977 | 2385 | 0040664 | 0000 | 14491 | 827 | | | | | | | | | | | | | | |
| | 114 | OBS | 0000 | 0155 | 29774 | 2385 | | | 14491 | 827 | | | | | | | | | | | | | | |
| | 114 | OBS | 0005 | 0148 | 29746 | 2385 | | | 14488 | 827 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0020 | 3109 | 2497 | 0029951 | 0035 | 14450 | 803 | | | | | | | | | | | | | | |
| | | STD | 0020 | -0157 | 3306 | 2662 | 0014292 | 0057 | 14396 | 768 | | | | | | | | | | | | | | |
| | 114 | OBS | 0020 | -0157 | 33056 | 2662 | | | 14396 | 768 | | | | | | | | | | | | | | |
| | | STD | 0030 | -0151 | 3335 | 2685 | 0012041 | 0071 | 14405 | 760 | | | | | | | | | | | | | | |
| | 114 | OBS | 0045 | -0148 | 33688 | 2713 | | | 14413 | 747 | | | | | | | | | | | | | | |
| | | STD | 0050 | -0152 | 3376 | 2719 | 0008874 | 0092 | 14413 | 740 | | | | | | | | | | | | | | |
| | 114 | OBS | 0070 | -0155 | 33982 | 2737 | | | 14418 | 721 | | | | | | | | | | | | | | |
| | | STD | 0075 | -0153 | 3403 | 2740 | 0006791 | 0111 | 14421 | 719 | | | | | | | | | | | | | | |
| | 114 | OBS | 0090 | -0138 | 34124 | 2748 | | | 14432 | 718 | | | | | | | | | | | | | | |

| REFERENCE OBS CODE | ID. NO. | SHIP CODE | LATITUDE | LONGITUDE | DEPTH METER | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | |
|----------------------------|------------|--------------|-----------|-----------|----------------|------------------------|---|---------------------------------------|------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------|-----|----------------------|----------------|-----|---------------------------|------|------|
| | | | | | | 10' | 1' | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT |
| | | | | | | WATER COLOR CODE | WIND TRANS. DIR | WIND SPEED OF FORCE | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | | | SPECIAL OBSERVATIONS | | | | | | | | |
| 311165 | | EW | 74570N | 066350E | 281 | 42 | 03 | 04 | 134 | 1967 | | | | 030 | 0000 | | 00 | 18 | 2 | | | 4 | 2 | 0041 |
| | | | | | | | | | 22 | 507 | 232 | 047 | 032 | 8 | 06 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - ml/l | TOTAL-P μg - ml/l | NO ₂ -N μg - ml/l | NO ₃ -N μg - ml/l | SIO ₄ -S μg - ml/l | pH | S C | | | | | | | |
| | | STD | 0000 | 0167 | 2977 | 2376 | 0118381 | 0000 | 14452 | 810 | | | | | | | | | | | | | | |
| | 134 | OBS | 0000 | 0167 | 29768 | 2376 | | | 14452 | 810 | | | | | | | | | | | | | | |
| | 134 | OBS | 0005 | 0034 | 29713 | 2377 | | | 14465 | 820 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0143 | 2983 | 2374 | 0004068 | 0092 | 14467 | 827 | | | | | | | | | | | | | | |
| | | STD | 0020 | -0175 | 29824 | 2381 | | | 14467 | 827 | | | | | | | | | | | | | | |
| | 134 | OBS | 0020 | -0175 | 29844 | 2380 | | | 14388 | 751 | | | | | | | | | | | | | | |
| | | STD | 0030 | -0150 | 3244 | 2548 | 0019543 | 0102 | 14397 | 772 | | | | | | | | | | | | | | |
| | 134 | OBS | 0030 | -0150 | 32435 | 2548 | | | 14397 | 772 | | | | | | | | | | | | | | |

| REFERENCE OBS CODE | ID. NO. | SHIP CODE | LATITUDE | LONGITUDE | DEPTH METER | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | |
|----------------------------|------------|--------------|-----------|-----------|----------------|------------------------|---|---------------------------------------|------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------|-----|----------------------|----------------|-----|---------------------------|------|------|
| | | | | | | 10' | 1' | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT |
| | | | | | | WATER COLOR CODE | WIND TRANS. DIR | WIND SPEED OF FORCE | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | | | SPECIAL OBSERVATIONS | | | | | | | | |
| 311165 | | EW | 74570N | 066350E | 281 | 43 | 03 | 04 | 150 | 1967 | | | | 031 | 0000 | | 00 | 18 | 2 | | | 4 | 2 | 0042 |
| | | | | | | | | | 22 | 507 | 232 | 047 | 032 | 8 | 06 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - ml/l | TOTAL-P μg - ml/l | NO ₂ -N μg - ml/l | NO ₃ -N μg - ml/l | SIO ₄ -S μg - ml/l | pH | S C | | | | | | | |
| | | STD | 0000 | 0144 | 2983 | 2372 | 0117361 | 0000 | 14480 | 842 | | | | | | | | | | | | | | |
| | 164 | OBS | 0000 | 0144 | 29778 | 2371 | | | 14388 | 842 | | | | | | | | | | | | | | |
| | 164 | OBS | 0005 | 0144 | 29778 | 2371 | | | 14389 | 846 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0434 | 29837 | 2377 | 0117594 | 0177 | 14388 | 833 | | | | | | | | | | | | | | |
| | 164 | OBS | 0010 | 0434 | 29771 | 2375 | | | 14388 | 833 | | | | | | | | | | | | | | |
| | 164 | OBS | 0015 | 0436 | 29771 | 2374 | | | 14217 | 750 | | | | | | | | | | | | | | |

| REFERENCE OBS CODE | ID. NO. | SHIP CODE | LATITUDE | LONGITUDE | DEPTH METER | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | |
|----------------------------|------------|--------------|-----------|-----------|----------------|------------------------|---|---------------------------------------|------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------|-----|----------------------|----------------|-----|---------------------------|------|------|
| | | | | | | 10' | 1' | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE | AMT |
| | | | | | | WATER COLOR CODE | WIND TRANS. DIR | WIND SPEED OF FORCE | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | | | SPECIAL OBSERVATIONS | | | | | | | | |
| 311165 | | EW | 74570N | 066350E | 281 | 43 | 03 | 04 | 159 | 1967 | | | | 032 | 0000 | | 00 | 18 | 3 | | | 0 | | 0043 |
| | | | | | | | | | 22 | 507 | 232 | 047 | 032 | 7 | 04 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - ml/l | TOTAL-P μg - ml/l | NO ₂ -N μg - ml/l | NO ₃ -N μg - ml/l | SIO ₄ -S μg - ml/l | pH | S C | | | | | | | |
| | | STD | 0000 | 0425 | 2976 | 2366 | 0117436 | 0000 | 14385 | 842 | | | | | | | | | | | | | | |
| | 164 | OBS | 0000 | 0424 | 29757 | 2366 | | | 14385 | 842 | | | | | | | | | | | | | | |
| | 164 | OBS | 0005 | 0423 | 29853 | 2362 | | | 14384 | 842 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0415 | 2984 | 2361 | 0117062 | 0172 | 14388 | 820 | | | | | | | | | | | | | | |
| | 164 | OBS | 0010 | 0415 | 29741 | 2361 | | | 14388 | 820 | | | | | | | | | | | | | | |
| | 164 | OBS | 0015 | -0116 | 29828 | 2353 | | | 14166 | 690 | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | 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 | | | | | |
|-----------------------------|-----------------|------------------|-------------------|--------------------|------------------|---------------|--|---------------------------------------|-------------------|----------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------|-----|----------------------|----------------|------|---------------------------|------|--|--|--|--|
| | | | | | 10' | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT. | PER. | SEA | | TYPE | AMT. | | | | | | |
| 311165 | EW | 73480N | 079580E | | 281 | 59 | 09 | 05 | 038 | 1967 | | 033 | 0037 | 00 | 23 | 1 | | | | 4 | 1 | | 0044 | | | | |
| | | | | 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 | | VIS CODE | | | | | | | | | | | |
| | | | | 12 | | 04 | | 23 | | S12 | | 256 | | 045 | | 039 | | 8 | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | S Δ D DYN. M. X 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - at/l | TOTAL-P µg - at/l | NO ₂ -N µg - at/l | NO ₃ -N µg - at/l | SiO ₄ -Si µg - at/l | pH | S C C | | | | | | | | | | |
| | | STD | 0000 | 0273 | 0871 | 0701 | 0203974 | 0000 | 14267 | 888 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0000 | 0273 | 08713 | 0701 | | | 14267 | 888 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0005 | 0273 | 08673 | 0698 | | | 14267 | 893 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0260 | 0922 | 0741 | 0199961 | 0202 | 14269 | 889 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0010 | 0260 | 09217 | 0741 | | | 14269 | 889 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0015 | -0108 | 22880 | 1839 | | | 14277 | 833 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | -0146 | 2776 | 2233 | 0055111 | 0330 | 14327 | 831 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0020 | -0146 | 27762 | 2233 | | | 14327 | 831 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0025 | -0155 | 31954 | 2572 | | | 14382 | 686 | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0149 | 3321 | 2674 | 0013114 | 0364 | 14404 | 544 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0030 | -0149 | 33211 | 2674 | | | 14404 | 544 | | | | | | | | | | | | | | | | | |
| | 038 | OBS | 0034 | -0150 | 33263 | 2678 | | | 14404 | 542 | | | | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | 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 | | | | | |
|-----------------------------|-----------------|------------------|-------------------|--------------------|------------------|---------------|--|---------------------------------------|-------------------|----------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------|-----|----------------------|----------------|------|---------------------------|--|------|--|--|--|
| | | | | | 10' | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT. | PER. | SEA | | TYPE | AMT. | | | | | | |
| 311165 | EW | 74050N | 078440E | | 281 | 48 | 09 | 05 | 054 | 1967 | | 034 | 0028 | 00 | 22 | 1 | | | | | 7 | 8 | | 0045 | | | |
| | | | | 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 | | VIS CODE | | | | | | | | | | | |
| | | | | 12 | | 04 | | 22 | | S11 | | 249 | | 053 | | 044 | | 7 | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | S Δ D DYN. M. X 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - at/l | TOTAL-P µg - at/l | NO ₂ -N µg - at/l | NO ₃ -N µg - at/l | SiO ₄ -Si µg - at/l | pH | S C C | | | | | | | | | | |
| | | STD | 0000 | 0184 | 1246 | 1001 | 0174484 | 0000 | 14274 | 888 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0000 | 0184 | 12457 | 1001 | | | 14274 | 888 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0005 | 0081 | 13936 | 1120 | | | 14246 | 869 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0044 | 1424 | 1144 | 0160444 | 0167 | 14233 | 874 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0010 | 0044 | 14242 | 1144 | | | 14233 | 874 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0015 | -0114 | 23975 | 1427 | | | 14287 | 844 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | -0137 | 2789 | 2243 | 0054114 | 0275 | 14333 | 791 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0020 | -0147 | 27892 | 2243 | | | 14333 | 791 | | | | | | | | | | | | | | | | | |
| | 064 | OBS | 0025 | -0151 | 32871 | 2647 | | | 14397 | 532 | | | | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDICATOR | 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 | | | | | |
|-----------------------------|-----------------|------------------|-------------------|--------------------|------------------|---------------|--|---------------------------------------|-------------------|----------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------|-------------|-----|----------------------|----------------|------|---------------------------|---|--|------|--|--|
| | | | | | 10' | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT. | PER. | SEA | | TYPE | AMT. | | | | | | |
| 311165 | EW | 74247N | 077150E | | 281 | 47 | 09 | 05 | 093 | 1967 | | 035 | 0034 | 00 | 22 | 1 | | | | | 45 | 9 | 9 | | 0046 | | |
| | | | | 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 | | VIS CODE | | | | | | | | | | | |
| | | | | 12 | | 05 | | 00 | | S00 | | 238 | | 036 | | 034 | | 0 | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | S Δ D DYN. M. X 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg - at/l | TOTAL-P µg - at/l | NO ₂ -N µg - at/l | NO ₃ -N µg - at/l | SiO ₄ -Si µg - at/l | pH | S C C | | | | | | | | | | |
| | | STD | 0000 | 0208 | 1490 | 1036 | 0171048 | 0000 | 14291 | 873 | | | | | | | | | | | | | | | | | |
| | 094 | OBS | 0000 | 0208 | 12894 | 1036 | | | 14291 | 873 | | | | | | | | | | | | | | | | | |
| | 094 | OBS | 0005 | 0067 | 15464 | 1242 | | | 14259 | 863 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | -0091 | 2226 | 1788 | 0097867 | 0134 | 14276 | 798 | | | | | | | | | | | | | | | | | |
| | 94 | OBS | 0010 | -0091 | 22255 | 1788 | | | 14276 | 798 | | | | | | | | | | | | | | | | | |
| | 94 | OBS | 0015 | -0123 | 24272 | 1951 | | | 14289 | 806 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | -0151 | 2962 | 2383 | 0040755 | 0234 | 14351 | 730 | | | | | | | | | | | | | | | | | |
| | 94 | OBS | 0020 | -0151 | | | | | 730 | | | | | | | | | | | | | | | | | | |
| | 94 | OBS | 0025 | -0158 | 32309 | 2600 | | | 14365 | 589 | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | -0155 | 3223 | 2602 | 0019906 | 0234 | 14388 | 574 | | | | | | | | | | | | | | | | | |
| | 094 | OBS | 0030 | -0155 | 32325 | 2602 | | | 14388 | 574 | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH (m) | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | |
|-------------|---------|------------|----------|--------------|-----------|-----------------|----|--------------------|------|-----------------|------|----------------------|----|-----------------|----------------------|-------------------|----------------|-----|--------------|-------------|---------------------|-----|-----|-----|------|-----|
| CRUISE CODE | ID. NO. | | | | | 10' | 3' | MO | DAY | HR | | 10' | 3' | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311167 | 05 | 74445N | 075475E | 281 | 45 | 09 | 05 | 123 | 1967 | 036 | 0036 | 00 | 22 | 3 | | | | 0 | 0047 | | | | | | | |
| WATER | | WIND | | AIR TEMP. °C | | BARO-METER (mb) | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OF FORCE | | DRY BULB | | WET BULB | | | | | | | | | | | | | | | | |
| 12 | | 07 | | 14 | | S14 | | 213 | | 053 | | 044 | | 9 | | 07 | | | | | | | | | | |

| MESSAGE TIME (HR 1:10) | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S. ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SiO ₄ -S μg-at/l | pH | S.C.C. |
|------------------------|-----------|-----------|-----------|-------|-------|---------|--|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|-----------------------------|----|--------|
| | | STD | 0000 | 0289 | 18.6 | 1445 | 0131132 | 0000 | 14345 | 837 | | | | | | | |
| | 124 | DBS | 0000 | 0289 | 18063 | 1445 | | | 14395 | 837 | | | | | | | |
| | 123 | DBS | 0005 | 0253 | 18045 | 1413 | | | 14390 | 833 | | | | | | | |
| | | STD | 0010 | 0152 | 2127 | 1714 | 0105080 | 0118 | 14378 | 838 | | | | | | | |
| | 122 | DBS | 0010 | 0152 | 21372 | 1714 | | | 14278 | 838 | | | | | | | |
| | 121 | DBS | 0015 | 0137 | 21374 | 1404 | | | 14357 | 801 | | | | | | | |
| | | STD | 0020 | -0149 | 2530 | 2277 | 0050926 | 0146 | 14333 | 795 | | | | | | | |
| | 123 | DBS | 0020 | -0149 | 2813 | 2277 | | | 14333 | 795 | | | | | | | |
| | 125 | DBS | 0025 | -0160 | 2472 | 2392 | | | 14349 | 804 | | | | | | | |
| | | STD | 0030 | -0161 | 3077 | 2475 | 0041901 | 0244 | 14374 | 748 | | | | | | | |
| | 123 | DBS | 0030 | -0161 | 30765 | 2475 | | | 14364 | 748 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH (m) | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | |
|-------------|---------|------------|----------|--------------|-----------|-----------------|----|--------------------|------|-----------------|------|----------------------|----|-----------------|----------------------|-------------------|----------------|-----|--------------|-------------|---------------------|-----|-----|-----|------|-----|
| CRUISE CODE | ID. NO. | | | | | 10' | 3' | MO | DAY | HR | | 10' | 3' | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311168 | E4 | 75217N | 07430E | 281 | 58 | 04 | 05 | 173 | 1967 | 036A | 0047 | 00 | 22 | 3 | | | | 0 | 0048 | | | | | | | |
| WATER | | WIND | | AIR TEMP. °C | | BARO-METER (mb) | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OF FORCE | | DRY BULB | | WET BULB | | | | | | | | | | | | | | | | |
| | | 2 | | S16 | | 154 | | 049 | | 032 | | 7 | | 05 | | | | | | | | | | | | |

| MESSAGE TIME (HR 1:10) | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S. ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SiO ₄ -S μg-at/l | pH | S.C.C. |
|------------------------|-----------|-----------|-----------|-------|-------|---------|--|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|-----------------------------|----|--------|
| | | STD | 0000 | 0136 | 2401 | 1492 | 0078284 | 0000 | 14364 | 837 | | | | | | | |
| | 173 | DBS | 0000 | 0136 | 24015 | 1492 | | | 14364 | 837 | | | | | | | |
| | | DBS | 0005 | -0078 | 27515 | 2212 | | | 14354 | 826 | | | | | | | |
| | | STD | 0010 | -0074 | 2774 | 2210 | 0055582 | 0017 | 14350 | 832 | | | | | | | |
| | 173 | DBS | 0010 | -0074 | 27737 | 223 | | | 14350 | 832 | | | | | | | |
| | | STD | 0020 | -014 | 2866 | 2138 | 0048178 | 0119 | 14344 | 821 | | | | | | | |
| | 173 | DBS | 0020 | -014 | 2865 | 2137 | | | 14348 | 787 | | | | | | | |
| | | STD | 0030 | -0154 | 3148 | 2475 | 0034110 | 0118 | 14364 | 750 | | | | | | | |
| | 173 | DBS | 0030 | -0154 | 3147 | 2475 | | | 14364 | 667 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH (m) | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | |
|-------------|---------|------------|----------|--------------|-----------|-----------------|----|--------------------|------|-----------------|------|----------------------|----|-----------------|----------------------|-------------------|----------------|-----|--------------|-------------|---------------------|-----|-----|-----|------|-----|
| CRUISE CODE | ID. NO. | | | | | 10' | 3' | MO | DAY | HR | | 10' | 3' | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311169 | E4 | 7455N | 07444E | 281 | 58 | 04 | 04 | 175 | 1967 | 036A | 0046 | 00 | 22 | 3 | | | | 0 | 0049 | | | | | | | |
| WATER | | WIND | | AIR TEMP. °C | | BARO-METER (mb) | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OF FORCE | | DRY BULB | | WET BULB | | | | | | | | | | | | | | | | |
| | | 2 | | S24 | | 110 | | 045 | | 044 | | 05 | | | | | | | | | | | | | | |

| MESSAGE TIME (HR 1:10) | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S. ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. M x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SiO ₄ -S μg-at/l | pH | S.C.C. |
|------------------------|-----------|-----------|-----------|-------|-------|---------|--|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|-----------------------------|----|--------|
| | | STD | 0030 | 0114 | 2364 | 1898 | 0087458 | 0000 | 14289 | 871 | | | | | | | |
| | 24 | DBS | 0030 | 0114 | 23644 | 1898 | | | 14285 | 870 | | | | | | | |
| | | DBS | 0035 | 0111 | 23659 | 1898 | | | 14384 | 854 | | | | | | | |
| | | STD | 0040 | 0047 | 2462 | 1477 | 0075655 | 0054 | 14373 | 861 | | | | | | | |
| | 24 | DBS | 0040 | 0047 | 24627 | 1477 | | | 14273 | 861 | | | | | | | |
| | | STD | 0050 | -010 | 2866 | 2135 | 0048206 | 0147 | 14352 | 829 | | | | | | | |
| | 24 | DBS | 0050 | -0161 | 31266 | 2431 | | | 14355 | 797 | | | | | | | |
| | | STD | 0055 | -0154 | 3144 | 2541 | 0026707 | 0185 | 14374 | 754 | | | | | | | |
| | 24 | DBS | 0055 | -0157 | 32462 | 2605 | | | 14389 | 721 | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIFT DIRECTION | 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 TYPE AMT | NODC STATION NUMBER | | |
|---------------------------|------------|--------------|------------------|-------------------|--------------------|--------------------|---------------|-----------------------|----------------------|------------------------|--------------|---------------|-----------------------|-------------------------------|-------------------------|------|-----|----------------------|----------------------------|---------------------------|------|-----|
| | | | | | | 10' | 1" | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | | | PER | SEA |
| 311165 | | EW | 75030N | 074190E | | 281 | 54 | 09 | 06 | 017 | 1967 | 037 | 0042 | 00 | 21 | 5 | | 47 | 7 | 8 | 0050 | |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS (ml) | DIR. | SPEED OR FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | 12 | 07 | 22 | S25 | 079 | 064 | 058 | 0 | 05 | | | | | | | | |

| MESSAGE TIME OF HR. 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | 0384 | 1405 | 1123 | 0162545 | 0000 | 14386 | 836 | | | | | | | |
| 018 | | OBS | 0000 | 0384 | 14053 | 1123 | | | 14386 | 836 | | | | | | | |
| 018 | | OBS | 0005 | 0370 | 14110 | 1128 | | | 14381 | 841 | | | | | | | |
| | | STD | 0010 | 0175 | 2194 | 1758 | 0100818 | 0132 | 14396 | 798 | | | | | | | |
| 018 | | OBS | 0010 | 0175 | 21935 | 1758 | | | 14396 | 798 | | | | | | | |
| 018 | | OBS | 0015 | -0053 | 26614 | 2140 | | | 14355 | 798 | | | | | | | |
| | | STD | 0020 | -0143 | 2875 | 2313 | 0047480 | 0206 | 14342 | 776 | | | | | | | |
| 018 | | OBS | 0020 | -0143 | 28750 | 2313 | | | 14342 | 776 | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIFT DIRECTION | 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 TYPE AMT | NODC STATION NUMBER | | |
|---------------------------|------------|--------------|------------------|-------------------|--------------------|--------------------|---------------|-----------------------|----------------------|------------------------|--------------|---------------|-----------------------|-------------------------------|-------------------------|------|-----|----------------------|----------------------------|---------------------------|------|-----|
| | | | | | | 10' | 1" | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | | | PER | SEA |
| 311165 | | EW | 75250N | 073760E | | 281 | 53 | 04 | 06 | 052 | 1967 | 038 | 0040 | 00 | 21 | 5 | | 45 | 9 | 9 | 0051 | |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS (ml) | DIR. | SPEED OR FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | 11 | 00 | 22 | S28 | 964 | 055 | 052 | 1 | 06 | | | | | | | | |

| MESSAGE TIME OF HR. 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | 0354 | 1560 | 1247 | 0150446 | 0000 | 14392 | 831 | | | | | | | |
| 052 | | OBS | 0000 | 0354 | 15594 | 1247 | | | 14392 | 831 | | | | | | | |
| 052 | | OBS | 0005 | 0348 | 15591 | 1246 | | | 14390 | 833 | | | | | | | |
| | | STD | 0010 | 0347 | 1561 | 1248 | 0150296 | 0150 | 14391 | 827 | | | | | | | |
| 052 | | OBS | 0010 | 0347 | 15612 | 1248 | | | 14391 | 827 | | | | | | | |
| 052 | | OBS | 0015 | 0330 | 16358 | 1306 | | | 14393 | 825 | | | | | | | |
| | | STD | 0020 | 0239 | 1731 | 1387 | 0136713 | 0294 | 14366 | 823 | | | | | | | |
| 052 | | OBS | 0020 | 0239 | 17313 | 1387 | | | 14366 | 823 | | | | | | | |
| 052 | | OBS | 0025 | 0017 | 23703 | 1904 | | | 14349 | 776 | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIFT DIRECTION | 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 TYPE AMT | NODC STATION NUMBER | | |
|---------------------------|------------|--------------|------------------|-------------------|--------------------|--------------------|---------------|-----------------------|----------------------|------------------------|--------------|---------------|-----------------------|-------------------------------|-------------------------|------|-----|----------------------|----------------------------|---------------------------|------|-----|
| | | | | | | 10' | 1" | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | | | PER | SEA |
| 311164 | | EW | 75550N | 073310E | | 281 | 53 | 09 | 06 | 059 | 1967 | 039 | 0066 | 01 | 20 | H | | | 3 | 2 | 0052 | |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS (ml) | DIR. | SPEED OR FORCE | BARO- METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | 25 | S22 | 970 | 039 | 001 | 8 | 06 | | | | | | | | | | |

| MESSAGE TIME OF HR. 1/10 | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | 0051 | 2884 | 2315 | 0047282 | 0000 | 14431 | 836 | | | | | | | |
| 089 | | OBS | 0000 | 0051 | 28844 | 2315 | | | 14431 | 836 | | | | | | | |
| 089 | | OBS | 0005 | 0051 | 28844 | 2315 | | | 14432 | 841 | | | | | | | |
| | | STD | 0010 | 0042 | 2901 | 2329 | 0045951 | 0047 | 14431 | 843 | | | | | | | |
| 089 | | OBS | 0010 | 0042 | 29112 | 2329 | | | 14431 | 843 | | | | | | | |
| | | STD | 0020 | -0116 | 3218 | 2590 | 0021123 | 0080 | 14403 | 820 | | | | | | | |
| 089 | | OBS | 0024 | -0158 | 33035 | 2660 | | | 14396 | 816 | | | | | | | |
| | | STD | 0030 | -0157 | 3307 | 2663 | 0014176 | 0098 | 14398 | 837 | | | | | | | |
| 089 | | OBS | 0048 | -0155 | 33173 | 2671 | | | 14403 | 843 | | | | | | | |
| | | STD | 0050 | -0154 | 3323 | 2677 | 0012787 | 0125 | 14403 | 839 | | | | | | | |
| 089 | | OBS | 0073 | -0135 | 34927 | 2813 | | | 14442 | 714 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH (METER) | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------|---------|------------|----------|----------------|---------------|---------------|----------|--------------------|-----|-----------------|------|----------------------|------------|-----------------|-----------------------|-------------------|-----|-----|-----|--------------|-------------|------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 10 | CRUISE NO. | | | STATION NUMBER | DR. | HGT | PER | | SEA | TYPE | |
| 311165 | EW | 773704N | 164230E | 282 | 79 | 07 | 043 | 1967 | 042 | | 0440 | 04 | 30 | 7 | | | | 3 | 5 | | | 0053 | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | DIR. | SPEED OR FORCE | (mbars) | DRY BULB | WET BULB | VIS CODE | | | | | | | | | | | | | | | |
| 05 | | 21 | 24 | 515 | 127 | 015 | 004 | 8 | | | 11 | | | | | | | | | | | | |

| MESSAGE NO. OF HR. 1/10 | CAST 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 | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S/C |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|---|--|---|---|---|----|-----|
| | | STD | 0000 | 0115 | 3350 | 2685 | 0012092 | 0000 | 14524 | 806 | | | | | | | |
| 744 | | SBS | 0000 | 0115 | 33496 | 2685 | | | 14524 | 806 | | | | | | | |
| 144 | | SBS | 0005 | 0115 | 33485 | 2684 | | | 14525 | 805 | | | | | | | |
| | | STD | 0010 | 0115 | 3349 | 2685 | 0012107 | 0012 | 14526 | 805 | | | | | | | |
| 144 | | SBS | 0010 | 0115 | 33494 | 2685 | | | 14526 | 805 | | | | | | | |
| | | STD | 0020 | 0114 | 3350 | 2691 | 0012157 | 0024 | 14526 | 806 | | | | | | | |
| 46 | | SBS | 0026 | 0037 | 3367 | 2694 | | | 14516 | 806 | | | | | | | |
| | | STD | 0030 | 0027 | 3364 | 2714 | 0012174 | 0034 | 14494 | 798 | | | | | | | |
| | | STD | 0030 | -015 | 3449 | 2778 | 0012254 | 0046 | 14420 | 765 | | | | | | | |
| 44 | | SBS | 0032 | -0168 | 34532 | 2782 | | | 14417 | 763 | | | | | | | |
| | | STD | 0075 | -0111 | 3467 | 2784 | 0012282 | 0053 | 14444 | 749 | | | | | | | |
| 246 | | SBS | 0077 | -0136 | 34662 | 2787 | | | 14452 | 746 | | | | | | | |
| | | STD | 0100 | -0047 | 3476 | 2795 | 0012347 | 0058 | 14485 | 735 | | | | | | | |
| 144 | | SBS | 0105 | -004 | 34770 | 2798 | | | 14489 | 734 | | | | | | | |
| | | STD | 0125 | -0075 | 3475 | 2798 | 0012351 | 0062 | 14478 | 749 | | | | | | | |
| | | STD | 0150 | -0095 | 3474 | 2800 | 0012351 | 0065 | 14471 | 761 | | | | | | | |
| 44 | | SBS | 0156 | -0094 | 3474 | 2800 | | | 14470 | 763 | | | | | | | |
| | | STD | 0200 | -0117 | 3487 | 2807 | 0012043 | 0069 | 14480 | 760 | | | | | | | |
| 44 | | SBS | 0204 | -0147 | 34827 | 2808 | | | 14481 | 757 | | | | | | | |
| | | STD | 0200 | -0122 | 3487 | 2807 | 0012357 | 0071 | 14455 | 757 | | | | | | | |
| | | STD | 0230 | -0188 | 3485 | 2825 | 0012364 | 0074 | 14500 | 754 | | | | | | | |
| 44 | | SBS | 0236 | -0187 | 34851 | 2825 | | | 14502 | 753 | | | | | | | |
| | | STD | 0300 | -0181 | 3481 | 2824 | 0012373 | 0078 | 14521 | 754 | | | | | | | |
| 44 | | SBS | 0304 | -0201 | 34827 | 2821 | | | 14524 | 753 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH (METER) | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------|---------|------------|----------|----------------|---------------|---------------|----------|--------------------|-----|-----------------|------|----------------------|------------|-----------------|-----------------------|-------------------|-----|-----|-----|--------------|-------------|------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 10 | CRUISE NO. | | | STATION NUMBER | DR. | HGT | PER | | SEA | TYPE | |
| 311165 | EW | 78176N | 158100E | 282 | 88 | 07 | 077 | 1967 | 043 | | 0430 | 04 | 30 | 5 | | | | 7 | 8 | | | 0054 | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | DIR. | SPEED OR FORCE | (mbars) | DRY BULB | WET BULB | VIS CODE | | | | | | | | | | | | | | | |
| 14 | | 003 | 106 | 025 | 014 | 7 | 11 | | | | | | | | | | | | | | | | |

| MESSAGE NO. OF HR. 1/10 | CAST 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 | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | S/C |
|-------------------------|----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|---|--|---|---|---|----|-----|
| | | STD | 0200 | 0126 | 3236 | 2599 | 0012349 | 0000 | 14468 | 833 | | | | | | | |
| 177 | | SBS | 0200 | 0126 | 32358 | 2599 | | | 14468 | 833 | | | | | | | |
| 177 | | SBS | 0204 | 0126 | 32354 | 2599 | | | 14464 | 834 | | | | | | | |
| 177 | | SBS | 0207 | 0126 | 32345 | 2598 | | | 14470 | 834 | | | | | | | |
| | | STD | 0210 | 0127 | 32347 | 2601 | 0012341 | 0020 | 14470 | 843 | | | | | | | |
| | | STD | 0210 | 0127 | 3234 | 2602 | 0012341 | 0038 | 14472 | 871 | | | | | | | |
| 77 | | SBS | 0214 | 0124 | 3234 | 2604 | | | 14470 | 872 | | | | | | | |
| | | STD | 0218 | -0104 | 3370 | 2691 | 0012376 | 0052 | 14448 | 841 | | | | | | | |
| 77 | | SBS | 0246 | -0111 | 34385 | 2777 | | | 14413 | 787 | | | | | | | |
| | | STD | 0250 | -0175 | 344 | 2777 | 0012371 | 0067 | 14422 | 785 | | | | | | | |
| 77 | | SBS | 0252 | -0177 | 34525 | 2781 | | | 14416 | 769 | | | | | | | |
| | | STD | 0255 | -0173 | 3474 | 2782 | 0012385 | 0076 | 14419 | 760 | | | | | | | |
| | | SBS | 0257 | -0187 | 34627 | 2787 | | | 1444 | 761 | | | | | | | |
| | | STD | 0300 | -0125 | 3462 | 2787 | 0012351 | 0082 | 14446 | 757 | | | | | | | |
| | | STD | 0325 | -0147 | 3474 | 2794 | 0012347 | 0087 | 14486 | 754 | | | | | | | |
| 77 | | SBS | 0347 | -0011 | 34804 | 2797 | | | 14510 | 734 | | | | | | | |
| | | STD | 0350 | -0011 | 3482 | 2798 | 0012346 | 0091 | 14510 | 736 | | | | | | | |
| 177 | | SBS | 0345 | -0014 | 34825 | 2799 | | | 14516 | 754 | | | | | | | |
| | | STD | 0350 | -0014 | 3483 | 2801 | 0012346 | 0098 | 14515 | 750 | | | | | | | |
| | | STD | 0355 | -0106 | 3484 | 2803 | 0012346 | 0103 | 14504 | 760 | | | | | | | |
| 77 | | SBS | 0358 | -0147 | 34850 | 2825 | | | 14500 | 767 | | | | | | | |
| | | STD | 0400 | -0187 | 3486 | 2825 | 0012361 | 0107 | 14501 | 760 | | | | | | | |
| | | STD | 0405 | -0299 | 3492 | 2811 | 0012357 | 0110 | 14512 | 734 | | | | | | | |
| 77 | | SBS | 0406 | -0100 | 34927 | 2811 | | | 14513 | 731 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIR. INDIC. INDEX | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF S'AMPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------------------|----------|------------|------------------|-------------------|-------------------|---------------|--|---|----------------|---------------------|--|---|--|--|--|-------------------|--------|-----|--------------|-------------|------|---------------------|
| CTRY CODE | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | Ew | 78290N | 066550E | | 282 | 86 | 09 | 07 | 108 | 1967 | 044 | 0390 | 03 | 21 | 3 | | | 6 | 8 | 0055 | |
| | | 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 | | | | | | | | | | | | |
| | | 05 | 16 | 17 | S15 | 073 | | 025 | 014 | 8 | | | 11 | | | | | | | | | |
| 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 ₂ -Si $\mu\text{g} \cdot \text{at/l}$ | pH | S.C.C. | | | | | |
| | | STD | 0000 | -0108 | 3177 | 2557 | 0024278 | 0000 | 14398 | 864 | | | | | | | | | | | | |
| | 108 | OBS | 0000 | -0108 | 31774 | 2557 | | | 14398 | 864 | | | | | | | | | | | | |
| | 108 | OBS | 0004 | -0110 | 31785 | 2558 | | | 14398 | 873 | | | | | | | | | | | | |
| | 108 | OBS | 0009 | -0108 | 31812 | 2560 | | | 14400 | 874 | | | | | | | | | | | | |
| | | STD | 0010 | -0110 | 3201 | 2576 | 002452 | 0023 | 14402 | 883 | | | | | | | | | | | | |
| | | STD | 0020 | -0143 | 3357 | 2703 | 0016408 | 0040 | 14415 | 940 | | | | | | | | | | | | |
| | 108 | OBS | 0023 | -0139 | 33900 | 2730 | | | 14417 | 945 | | | | | | | | | | | | |
| | | STD | 0030 | -0153 | 3403 | 2740 | 0006817 | 0048 | 14413 | 883 | | | | | | | | | | | | |
| | 108 | OBS | 0046 | -0173 | 34287 | 2762 | | | 14410 | 789 | | | | | | | | | | | | |
| | | STD | 0050 | -0173 | 3435 | 2767 | 0004297 | 0060 | 14412 | 784 | | | | | | | | | | | | |
| | 108 | OBS | 0068 | -0174 | 34528 | 2781 | | | 14417 | 768 | | | | | | | | | | | | |
| | | STD | 0075 | -0169 | 3453 | 2781 | 0002936 | 0069 | 14420 | 767 | | | | | | | | | | | | |
| | 108 | OBS | 0091 | -0158 | 34525 | 2781 | | | 14428 | 762 | | | | | | | | | | | | |
| | | STD | 0100 | -0117 | 3457 | 2783 | 0002761 | 0076 | 14449 | 752 | | | | | | | | | | | | |
| | | STD | 0125 | -0025 | 3469 | 2789 | 0002231 | 0082 | 14498 | 731 | | | | | | | | | | | | |
| | 108 | OBS | 0136 | 0006 | 34730 | 2791 | | | 14515 | 725 | | | | | | | | | | | | |
| | | STD | 0150 | 0031 | 3478 | 2793 | 0001646 | 0087 | 14529 | 721 | | | | | | | | | | | | |
| | 108 | OBS | T0181 | 0067 | 34852 | 2797 | | | 14551 | 716 | | | | | | | | | | | | |
| | | STD | 0200 | 0059 | 3485 | 2797 | 0001480 | 0095 | 14551 | 720 | | | | | | | | | | | | |
| | | STD | 0250 | 0037 | 3485 | 2798 | 0001374 | 0102 | 14549 | 731 | | | | | | | | | | | | |
| | 108 | OBS | T0272 | 0028 | 34847 | 2799 | | | 14549 | 736 | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIR. INDIC. INDEX | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF S'AMPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------------------|----------|------------|------------------|-------------------|-------------------|---------------|--|---|----------------|---------------------|--|---|--|--|--|-------------------|--------|-----|--------------|-------------|------|---------------------|
| CTRY CODE | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | Ew | 78550N | 065350E | | 282 | 85 | 09 | 07 | 150 | 1967 | 045 | 0301 | 01 | 19 | 2 | | | 63 | 7 | 8 | 0056 |
| | | 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 | | | | | | | | | | | | |
| | | | | | 17 | S17 | 918 | 012 | 006 | 7 | | | 11 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ 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 ₂ -Si $\mu\text{g} \cdot \text{at/l}$ | pH | S.C.C. | | | | | |
| | | STD | 0000 | -0163 | 3294 | 2652 | 0015200 | 0000 | 14388 | 923 | | | | | | | | | | | | |
| | 150 | OBS | 0000 | -0163 | 32938 | 2652 | | | 14388 | 923 | | | | | | | | | | | | |
| | 150 | OBS | 0004 | -0164 | 32931 | 2652 | | | 14388 | 920 | | | | | | | | | | | | |
| | 150 | OBS | 0009 | -0164 | 32931 | 2652 | | | 14389 | 916 | | | | | | | | | | | | |
| | | STD | 0010 | -0164 | 3293 | 2652 | 0015244 | 0015 | 14389 | 917 | | | | | | | | | | | | |
| | | STD | 0020 | -0163 | 3294 | 2652 | 0015207 | 0030 | 14391 | 928 | | | | | | | | | | | | |
| | 150 | OBS | 0022 | -0163 | 32936 | 2652 | | | 14392 | 930 | | | | | | | | | | | | |
| | | STD | 0030 | -0170 | 3362 | 2708 | 0009921 | 0043 | 14400 | 852 | | | | | | | | | | | | |
| | 150 | OBS | 0045 | -0180 | 34432 | 2774 | | | 14409 | 760 | | | | | | | | | | | | |
| | | STD | 0050 | -0181 | 3445 | 2775 | 0003509 | 0056 | 14404 | 759 | | | | | | | | | | | | |
| | 150 | OBS | 0067 | -0185 | 34503 | 2780 | | | 14411 | 755 | | | | | | | | | | | | |
| | | STD | 0075 | -0167 | 3453 | 2781 | 0002419 | 0064 | 14421 | 752 | | | | | | | | | | | | |
| | 150 | OBS | 0089 | -0133 | 34580 | 2784 | | | 14440 | 747 | | | | | | | | | | | | |
| | | STD | 0100 | -0096 | 3462 | 2786 | 0002457 | 0071 | 14460 | 745 | | | | | | | | | | | | |
| | | STD | 0125 | -0023 | 3471 | 2790 | 0002089 | 0077 | 14499 | 738 | | | | | | | | | | | | |
| | 150 | OBS | 0134 | -0001 | 34735 | 2791 | | | 14511 | 734 | | | | | | | | | | | | |
| | | STD | 0150 | 0032 | 3478 | 2793 | 0001652 | 0082 | 14529 | 721 | | | | | | | | | | | | |
| | 150 | OBS | 0180 | 0077 | 34840 | 2795 | | | 14556 | 704 | | | | | | | | | | | | |
| | | STD | 0200 | 0076 | 3485 | 2796 | 0001594 | 0090 | 14558 | 707 | | | | | | | | | | | | |
| | | STD | 0250 | 0072 | 3487 | 2798 | 0001430 | 0098 | 14565 | 711 | | | | | | | | | | | | |
| | 150 | OBS | T0271 | 0071 | 34877 | 2799 | | | 14568 | 712 | | | | | | | | | | | | |
| | | STD | 0300 | 0074 | 3489 | 2799 | 0001298 | 0105 | 14575 | 711 | | | | | | | | | | | | |
| | 150 | OBS | T0321 | 0077 | 34902 | 2800 | | | 14580 | 710 | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1-10 | LONGITUDE 1-10 | DEPTH M | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|--------------------------|----------|------------|------------------|-------------------|------------|---------------|--------------------------------|-------------------------------------|----------------|---------------------|---|----------------------------------|---|---|---|-------------------|-------|-----|-----|--------------|-------------------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DR. | HGT | PER | SEA | | | |
| 311165 | | EW | 79174N | 06416E | 282 | 94 | 09 | 07 | 181 | 1967 | 046 | 0311 | 03 | 14 | 3 | | | 44 | 1 | 8 | 0057 | |
| | | 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 | | | | | | | | |
| | | 26 | | S16 | | 855 | | J12 | | J06 | | 10 | | 10 | | | | | | | | |
| MESSAGE TIME HR. 1-10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-EDT | S Δ D DYN. M. 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - dl ⁻¹ | TOTAL-P μg - dl ⁻¹ | NO ₃ -N μg - dl ⁻¹ | NO ₂ -N μg - dl ⁻¹ | SiO ₄ -Si μg - dl ⁻¹ | pH | S. C. | | | | | |
| | | STD | 0000 | -0158 | 3285 | 2645 | 001585 | 0000 | 14384 | 874 | | | | | | | | | | | | |
| 181 | | OBS | 0000 | -0158 | 32855 | 2645 | | | 14389 | 875 | | | | | | | | | | | | |
| 181 | | OBS | 0005 | -0159 | 32855 | 2645 | | | 14390 | 872 | | | | | | | | | | | | |
| | | STD | 0010 | -0159 | 32855 | 2645 | 0015840 | 0016 | 14391 | 875 | | | | | | | | | | | | |
| 181 | | OBS | 0010 | -0159 | 32855 | 2645 | | | 14391 | 875 | | | | | | | | | | | | |
| | | STD | 0020 | -0174 | 32844 | 2645 | 0011331 | 0024 | 14395 | 880 | | | | | | | | | | | | |
| 181 | | OBS | 0025 | -0174 | 32833 | 2713 | | | 14396 | 884 | | | | | | | | | | | | |
| | | STD | 0030 | -0174 | 3288 | 2724 | 0007411 | 0034 | 1441 | 852 | | | | | | | | | | | | |
| | | STD | 0050 | -0174 | 344 | 2771 | 0013413 | 0051 | 1441 | 765 | | | | | | | | | | | | |
| 181 | | OBS | 0050 | -0174 | 34428 | 2774 | | | 14415 | 760 | | | | | | | | | | | | |
| | | STD | 0075 | -0187 | 3465 | 2775 | 0003526 | 0060 | 14419 | 748 | | | | | | | | | | | | |
| 181 | | OBS | 0077 | -0188 | 3447 | 2777 | | | 14420 | 747 | | | | | | | | | | | | |
| | | STD | 0100 | -0148 | 3474 | 2787 | 002524 | 0068 | 14435 | 746 | | | | | | | | | | | | |
| 181 | | OBS | 0103 | -0148 | 3460 | 2787 | | | 14437 | 746 | | | | | | | | | | | | |
| | | STD | 0120 | -0176 | 3474 | 2784 | 0002144 | 0074 | 14440 | 747 | | | | | | | | | | | | |
| | | STD | 0150 | -0118 | 3467 | 2791 | 0001374 | 0074 | 14459 | 745 | | | | | | | | | | | | |
| 181 | | OBS | 0154 | -0118 | 34674 | 2792 | | | 14461 | 745 | | | | | | | | | | | | |
| | | STD | 0200 | -0054 | 3476 | 2796 | 001546 | 0087 | 14478 | 735 | | | | | | | | | | | | |
| 181 | | OBS | T 007 | -0144 | 3476 | 2796 | | | 1451 | 734 | | | | | | | | | | | | |
| | | STD | 250 | -0114 | 3481 | 2798 | 001387 | 0095 | 14525 | 724 | | | | | | | | | | | | |
| 181 | | OBS | T 297 | -0011 | 3484 | 2811 | | | 14547 | 720 | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1-10 | LONGITUDE 1-10 | DEPTH M | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|--------------------------|----------|------------|------------------|-------------------|------------|---------------|--------------------------------|-------------------------------------|----------------|---------------------|---|----------------------------------|---|---|---|-------------------|-------|-----|-----|--------------|-------------------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10" | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DR. | HGT | PER | SEA | | | |
| 311164 | | EW | 78540N | 06435E | 282 | 94 | 09 | 07 | 181 | 1967 | 046 | 0311 | 03 | 14 | 3 | | | 44 | 1 | 8 | 0058 | |
| | | 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 | | | | | | | | |
| | | 24 | | S12 | | 847 | | J12 | | J06 | | 10 | | 10 | | | | | | | | |
| MESSAGE TIME HR. 1-10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-EDT | S Δ D DYN. M. 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - dl ⁻¹ | TOTAL-P μg - dl ⁻¹ | NO ₃ -N μg - dl ⁻¹ | NO ₂ -N μg - dl ⁻¹ | SiO ₄ -Si μg - dl ⁻¹ | pH | S. C. | | | | | |
| | | STD | 0000 | -0141 | 3475 | 2772 | 002277 | 0000 | 14385 | 884 | | | | | | | | | | | | |
| 004 | | OBS | 0000 | -0141 | 34754 | 2772 | | | 14385 | 884 | | | | | | | | | | | | |
| 004 | | OBS | 0005 | -0142 | 34757 | 2772 | | | 14385 | 884 | | | | | | | | | | | | |
| 004 | | OBS | 0010 | -0141 | 3475 | 2772 | | | 14387 | 884 | | | | | | | | | | | | |
| | | STD | 0020 | -0141 | 3478 | 2844 | 0001374 | 0044 | 14391 | 887 | | | | | | | | | | | | |
| | | STD | 0030 | -0141 | 3474 | 2844 | | | 14392 | 887 | | | | | | | | | | | | |
| | | STD | 0040 | -0161 | 3473 | 2851 | 0002147 | 0061 | 14400 | 822 | | | | | | | | | | | | |
| | | OBS | 0043 | -0170 | 3434 | 2751 | | | 14414 | 762 | | | | | | | | | | | | |
| | | STD | 0050 | -0171 | 3477 | 2764 | 000444 | 007 | 14415 | 759 | | | | | | | | | | | | |
| 008 | | OBS | 0054 | -0188 | 3447 | 2774 | | | 14427 | 752 | | | | | | | | | | | | |
| | | STD | 0070 | -0148 | 3471 | 2774 | 0001374 | 008 | 14431 | 745 | | | | | | | | | | | | |
| | | STD | 0080 | -0148 | 3464 | 2784 | | | 14437 | 738 | | | | | | | | | | | | |
| | | STD | 0100 | -0116 | 3465 | 2791 | 0002177 | 0092 | 14442 | 725 | | | | | | | | | | | | |
| | | STD | 0120 | -0117 | 3470 | 2794 | 0001414 | 0077 | 14458 | 715 | | | | | | | | | | | | |
| | | OBS | 0127 | -0111 | 34763 | 2795 | | | 14454 | 714 | | | | | | | | | | | | |
| | | STD | 0150 | -0112 | 3481 | 2804 | 0001378 | 0100 | 14464 | 714 | | | | | | | | | | | | |
| 009 | | OBS | T 070 | -0112 | 34777 | 2811 | | | 14467 | 716 | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DINB 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 | | | | |
|----------------|------------|----------------|------------------|-------------------|---------------|----------------------|----|-----------------------|------|-----------------------|------|-------------------------|---------------|-----------------------|-------------------------------|----------------------|------|-----|----------------------|----------------|------|---------------------------|------|-----|--|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | PER | SEA | | TYPE | AMT | | |
| 311165 | EW | 78410N | 060200E | 282 | 01 | 09 | 08 | 037 | 1967 | 050 | 0177 | 01 | 24 | 4 | | | | 6 | 8 | | 0059 | | | | | |
| WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (ml) | | DIR. | | SPEED OR FORCE | | DRY BULB | | WET BULB | | VIS CODE | | | | | | | | | | | | | | |
| J6 | | 25 | | 29 | | S12 | | 947 | | -004 | | -005 | | 8 | | 08 | | | | | | | | | | |

| MESSAGE TIME OF 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 $\mu\text{g} - \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} - \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} - \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} - \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} - \text{dl}^{-1}$ | pH | S C C |
|-------------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------------|
| | | STD | 0000 | -0113 | 3193 | 2569 | 0023059 | 0000 | 14396 | 852 | | | | | | | |
| 037 | | OBS | 0000 | -0113 | 31931 | 2569 | | | 14398 | 852 | | | | | | | |
| 037 | | OBS | 0005 | -0114 | 31930 | 2569 | | | 14398 | 861 | | | | | | | |
| | | STD | 0010 | -0113 | 3193 | 2569 | 0023066 | 0023 | 14399 | 850 | | | | | | | |
| 037 | | OBS | 0011 | -0113 | 31929 | 2569 | | | 14399 | 848 | | | | | | | |
| | | STD | 0020 | -0144 | 3343 | 2692 | 0011452 | 0040 | 14407 | 840 | | | | | | | |
| 037 | | OBS | 0027 | -0161 | 34233 | 2757 | | | 14412 | 830 | | | | | | | |
| | | STD | 0030 | -0162 | 3426 | 2759 | 0005029 | 0049 | 14412 | 821 | | | | | | | |
| | | STD | 0050 | -0167 | 3440 | 2771 | 0003929 | 0058 | 14415 | 773 | | | | | | | |
| 037 | | OBS | 0054 | -0168 | 34429 | 2773 | | | 14416 | 765 | | | | | | | |
| | | STD | 0075 | -0130 | 3455 | 2782 | 0002879 | 0066 | 14439 | 734 | | | | | | | |
| 037 | | OBS | 0081 | -0115 | 34566 | 2784 | | | 14447 | 726 | | | | | | | |
| | | STD | 0100 | -0056 | 3467 | 2789 | 0002242 | 0072 | 14479 | 714 | | | | | | | |
| 037 | | OBS | 0107 | -0030 | 34696 | 2790 | | | 14493 | 712 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DINB 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 | | | | |
|----------------|------------|----------------|------------------|-------------------|---------------|----------------------|----|-----------------------|------|-----------------------|------|-------------------------|---------------|-----------------------|-------------------------------|----------------------|------|-----|----------------------|----------------|------|---------------------------|------|-----|--|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | PER | SEA | | TYPE | AMT | | |
| 311165 | EW | 78175N | 061420E | 282 | 01 | 09 | 08 | 086 | 1967 | 051 | 0302 | 03 | 25 | 6 | | | | 7 | 2 | | 0060 | | | | | |
| WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (ml) | | DIR. | | SPEED OR FORCE | | DRY BULB | | WET BULB | | VIS CODE | | | | | | | | | | | | | | |
| 06 | | 22 | | 27 | | S15 | | 995 | | 011 | | -002 | | 7 | | 10 | | | | | | | | | | |

| MESSAGE TIME OF 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 $\mu\text{g} - \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} - \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} - \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} - \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} - \text{dl}^{-1}$ | pH | S C C |
|-------------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------------|
| | | STD | 0000 | -0035 | 3245 | 2609 | 0019336 | 0000 | 14441 | 838 | | | | | | | |
| 086 | | OBS | 0000 | -0035 | 32449 | 2609 | | | 14441 | 838 | | | | | | | |
| 086 | | OBS | 0005 | -0035 | 32446 | 2608 | | | 14442 | 844 | | | | | | | |
| 086 | | OBS | 0009 | -0035 | 32441 | 2608 | | | 14443 | 842 | | | | | | | |
| | | STD | 0010 | -0044 | 3259 | 2620 | 0018217 | 0019 | 14441 | 843 | | | | | | | |
| | | STD | 0020 | -0116 | 3383 | 2723 | 00006465 | 0032 | 14426 | 850 | | | | | | | |
| 086 | | OBS | 0025 | -0142 | 34247 | 2758 | | | 14421 | 854 | | | | | | | |
| | | STD | 0030 | -0156 | 3428 | 2761 | 0004891 | 0039 | 14415 | 835 | | | | | | | |
| | | STD | 0050 | -0178 | 3439 | 2771 | 0003947 | 0048 | 14410 | 774 | | | | | | | |
| 086 | | OBS | 0050 | -0178 | 34394 | 2771 | | | 14410 | 774 | | | | | | | |
| 086 | | OBS | 0073 | -0141 | 34519 | 2780 | | | 14433 | 739 | | | | | | | |
| | | STD | 0075 | -0131 | 3453 | 2780 | 0003029 | 0056 | 14438 | 737 | | | | | | | |
| 086 | | OBS | 0098 | -0028 | 34670 | 2787 | | | 14492 | 720 | | | | | | | |
| | | STD | 0100 | -0021 | 3468 | 2788 | 0002330 | 0063 | 14495 | 719 | | | | | | | |
| | | STD | 0125 | 0052 | 3479 | 2793 | 0001891 | 0068 | 14534 | 712 | | | | | | | |
| 086 | | OBS | 0146 | 0093 | 34653 | 2795 | | | 14557 | 707 | | | | | | | |
| | | STD | 0150 | 0097 | 3486 | 2796 | 0001648 | 0073 | 14560 | 707 | | | | | | | |
| 086 | | OBS | T0193 | 0118 | 34878 | 2796 | | | 14577 | 703 | | | | | | | |
| | | STD | 0200 | 0118 | 3488 | 2796 | 0001653 | 0081 | 14578 | 703 | | | | | | | |
| | | STD | 0250 | 0095 | 3489 | 2798 | 0001431 | 0089 | 14576 | 700 | | | | | | | |
| 086 | | OBS | T0282 | 0057 | 34691 | 2801 | | | 14564 | 700 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DINB 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 |
|----------------|------------|----------------|------------------|-------------------|---------------|----------------------|----|-----------------------|------|-----------------------|------|-------------------------|---------------|-----------------------|-------------------------------|----------------------|------|-----|----------------------|----------------|------|---------------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | PER | SEA | |
| 311165 | EW | 77397N | 059537E | 283 | 79 | 09 | 10 | 014 | 1967 | 058 | 0311 | 02 | 30 | 8 | | | | 70 | 9 | 9 | 0061 | |
| WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | | TRANS. (ml) | | DIR. | | SPEED OR FORCE | | DRY BULB | | WET BULB | | VIS CODE | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| MESSAGE TIME OF 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 $\mu\text{g} - \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} - \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} - \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} - \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} - \text{dl}^{-1}$ | pH | S C C |
|-------------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------------|
| 114 | | OBS | 00000 | 0049 | 33051 | 2653 | | | | 831 | | | | | | | |
| 114 | | OBS | 00020 | 0048 | 33052 | 2653 | | | | 830 | | | | | | | |
| 114 | | OBS | 00040 | 0048 | 33053 | 2654 | | | | 816 | | | | | | | |
| 114 | | OBS | 00100 | 0047 | 33064 | 2654 | | | | 815 | | | | | | | |
| 114 | | OBS | 00200 | -0059 | 34155 | 2747 | | | | 846 | | | | | | | |
| 114 | | OBS | 00310 | -0137 | 34533 | 2781 | | | | 774 | | | | | | | |
| 114 | | OBS | 00440 | -0121 | 34629 | 2788 | | | | 757 | | | | | | | |
| 114 | | OBS | 00760 | -0089 | 34732 | 2795 | | | | 740 | | | | | | | |
| 114 | | OBS | 01140 | -0129 | 34774 | 2800 | | | | 757 | | | | | | | |
| 114 | | OBS | 01840 | -0086 | 34887 | 2808 | | | | 720 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | | | |
|------------|---------|------------|----------|------------|-----------------|--------------------|----|------------|------|-----------------|-------|----------------------|----------------------|-------------------|----------------|-----------------|--------------|----------------------|---------------------|------|-----|-----|------|-----|--|--|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:10 | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT | | |
| 311165 | 5W | | 77225N | 14111E | 2R2 | 71 | 02 | 13 | 041 | 1967 | | 057 | 0201 | 02 | 21 | A | | 87 | 815 | 0062 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mb) | | DRY BULB | | WET BULB | | VIS CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | 29 | | 524 | | 482 | | 004 | | 002 | | 4 | | 00 | | | | | | | | |

| MESSING TIME OF HR 1-10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME AND WAVELENGTH | 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. COND. |
|-------------------------|---------|-----------|-----------|-------|-------|---------|--------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|----------|
| | | TL | 0.00 | 0153 | 3342 | 2677 | 0012696 | 0000 | 14541 | 796 | | | | | | | |
| 41 | | DB | 0.00 | 0153 | 3342 | 2677 | | | 14540 | 796 | | | | | | | |
| 41 | | DB | 0005 | 0154 | 33431 | 2677 | | | 14541 | 782 | | | | | | | |
| | | ST | 0011 | 0154 | 3343 | 2677 | 0012694 | 0013 | 14542 | 776 | | | | | | | |
| 41 | | DBS | 0014 | 0154 | 33430 | 2677 | | | 14543 | 775 | | | | | | | |
| | | ST | 0022 | 0154 | 3344 | 2677 | 0012697 | 0026 | 14544 | 777 | | | | | | | |
| 41 | | DBS | 0027 | 0154 | 33438 | 2674 | | | 14545 | 776 | | | | | | | |
| | | TL | 0034 | 0155 | 3353 | 2675 | 0011015 | 0038 | 14527 | 775 | | | | | | | |
| | | ST | 0050 | -0123 | 3453 | 2744 | 0012583 | 0051 | 14438 | 759 | | | | | | | |
| 41 | | DB | 0054 | -0148 | 34543 | 2744 | | | 14429 | 757 | | | | | | | |
| | | ST | 0075 | -0145 | 3470 | 2744 | 0011246 | 0056 | 14434 | 750 | | | | | | | |
| 41 | | DB | 0102 | -0137 | 34774 | 2744 | | | 14440 | 756 | | | | | | | |
| | | ST | 0100 | -0108 | 3484 | 2807 | 0000842 | 0074 | 14473 | 762 | | | | | | | |
| 41 | | DB | 0109 | -0053 | 34855 | 2807 | | | 14480 | 764 | | | | | | | |
| | | ST | 0123 | -0073 | 3483 | 2807 | 0000594 | 0061 | 14478 | 761 | | | | | | | |
| | | ST | 0153 | -0084 | 3484 | 2807 | 0000474 | 0062 | 14476 | 755 | | | | | | | |
| 41 | | DB | 0174 | -0113 | 3483 | 2810 | | | 14473 | 754 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | | | |
|------------|---------|------------|----------|------------|-----------------|--------------------|----|------------|------|-----------------|-------|----------------------|----------------------|-------------------|----------------|-----------------|--------------|----------------------|---------------------|------|-----|-----|------|-----|--|--|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:10 | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT | | |
| 311165 | 5W | | 77225N | 14111E | 2R2 | 71 | 02 | 13 | 041 | 1967 | | 057 | 0201 | 02 | 21 | A | | 87 | 815 | 0063 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mb) | | DRY BULB | | WET BULB | | VIS CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | 29 | | 524 | | 482 | | 004 | | 002 | | 4 | | 00 | | | | | | | | |

| MESSING TIME OF HR 1-10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME AND WAVELENGTH | 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. COND. |
|-------------------------|---------|-----------|-----------|-------|-------|---------|--------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|----------|
| | | TL | 0.00 | 0153 | 3342 | 2713 | 0012696 | 0000 | 14534 | 747 | | | | | | | |
| 71 | | DB | 0.00 | 0153 | 3342 | 2713 | | | 14533 | 747 | | | | | | | |
| 71 | | DB | 0005 | 0154 | 33431 | 2713 | | | 14532 | 744 | | | | | | | |
| | | ST | 0011 | 0154 | 3343 | 2713 | 0012694 | 0013 | 14532 | 735 | | | | | | | |
| 71 | | DBS | 0014 | 0154 | 33430 | 2713 | | | 14533 | 745 | | | | | | | |
| | | ST | 0022 | 0154 | 3344 | 2713 | 0012697 | 0026 | 14534 | 745 | | | | | | | |
| 71 | | DBS | 0027 | 0154 | 33438 | 2713 | | | 14535 | 746 | | | | | | | |
| | | TL | 0034 | 0155 | 3353 | 2715 | 0011015 | 0038 | 14527 | 745 | | | | | | | |
| | | ST | 0050 | -0123 | 3453 | 2744 | 0012583 | 0051 | 14438 | 749 | | | | | | | |
| 71 | | DB | 0054 | -0148 | 34543 | 2744 | | | 14434 | 747 | | | | | | | |
| | | ST | 0075 | -0145 | 3470 | 2744 | 0011246 | 0056 | 14434 | 747 | | | | | | | |
| 71 | | DB | 0102 | -0137 | 34774 | 2744 | | | 14434 | 747 | | | | | | | |
| | | ST | 0100 | -0108 | 3484 | 2807 | 0000842 | 0074 | 14473 | 746 | | | | | | | |
| 71 | | DB | 0109 | -0053 | 34855 | 2807 | | | 14480 | 745 | | | | | | | |
| | | ST | 0123 | -0073 | 3483 | 2807 | 0000594 | 0061 | 14478 | 745 | | | | | | | |
| | | ST | 0153 | -0084 | 3484 | 2807 | 0000474 | 0062 | 14476 | 745 | | | | | | | |
| 71 | | DB | 0174 | -0113 | 3483 | 2810 | | | 14473 | 742 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | | | | | | | |
|------------|---------|------------|----------|------------|-----------------|--------------------|----|------------|------|-----------------|-------|----------------------|----------------------|-------------------|----------------|-----------------|--------------|----------------------|---------------------|------|-----|-----|------|-----|--|--|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR:10 | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | TYPE | AMT | | |
| 311165 | 5W | | 74225N | 12643E | 2R2 | 71 | 02 | 13 | 041 | 1967 | | 057 | 0201 | 02 | 21 | A | | 87 | 718 | 0064 | | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mb) | | DRY BULB | | WET BULB | | VIS CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | 28 | | 525 | | 016 | | 000 | | 5 | | 00 | | | | | | | | | | |

| MESSING TIME OF HR 1-10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME AND WAVELENGTH | 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. COND. |
|-------------------------|---------|-----------|-----------|-------|-------|---------|--------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|----------|
| | | ST | 00 | 0134 | 3344 | 2723 | 0012652 | 0001 | 14542 | 745 | | | | | | | |
| 13 | | DBS | 0000 | 0134 | 33486 | 2723 | | | 14542 | 745 | | | | | | | |
| 13 | | DBS | 0003 | 0137 | 33445 | 2723 | | | 14541 | 747 | | | | | | | |
| | | TL | 0005 | 0137 | 3344 | 2722 | 0012646 | 0014 | 14543 | 800 | | | | | | | |
| 13 | | DB | 0007 | 0134 | 33482 | 2722 | | | 14543 | 800 | | | | | | | |
| | | ST | 0013 | 0174 | 3440 | 2745 | 0012647 | 0016 | 14527 | 814 | | | | | | | |
| 13 | | DBS | 0017 | 0111 | 3443 | 2745 | 0012401 | 0021 | 14542 | 815 | | | | | | | |
| | | ST | 0021 | -0144 | 3462 | 2745 | 0012401 | 0023 | 14455 | 806 | | | | | | | |
| 13 | | DBS | 0025 | -0144 | 34535 | 2745 | | | 14453 | 805 | | | | | | | |
| | | ST | 0034 | -0137 | 3467 | 2745 | 0012402 | 0034 | 14451 | 792 | | | | | | | |
| 13 | | DBS | 0037 | -0133 | 34571 | 2745 | | | 14451 | 791 | | | | | | | |
| | | ST | 0047 | -0114 | 3454 | 2743 | 0012403 | 0049 | 14455 | 790 | | | | | | | |
| 13 | | DB | 0050 | -0121 | 34595 | 2743 | | | 14450 | 784 | | | | | | | |
| | | ST | 0058 | -0122 | 3472 | 2745 | 0012404 | 0043 | 14451 | 784 | | | | | | | |
| 13 | | DB | 0102 | -0131 | 34724 | 2745 | | | 14451 | 781 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METER | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|--------------|----------------------|------------------------|----------------|--------------------|---|---|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-----|-----|----------------------|----------------|------|---------------------------|-----|------|--|------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|--|----|-----|-----|-----|-----|---|----|
| CRUISE NO. | STATION NUMBER | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | | AMT | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 76270N | 059230E | 283 | 69 | 07 | 10 | 191 | 1967 | 068 | 0240 | 02 | 27 | 9 | | | 87 | 78 | | | 0065 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>31</td> <td>517</td> <td>005</td> <td>012</td> <td>006</td> <td>5</td> <td>06</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | WIND | | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. M | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | | | | 31 | 517 | 005 | 012 | 006 | 5 | 06 |
| WATER | | WIND | | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. M | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 31 | 517 | 005 | 012 | 006 | 5 | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P 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 | CL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0211 | 3411 | 2727 | 0006077 | 0000 | 14575 | 770 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0000 | 0211 | 34111 | 2727 | | | 14575 | 770 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0005 | 0212 | 34106 | 2727 | | | 14577 | 784 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0212 | 3411 | 2727 | 0006124 | 0008 | 14577 | 786 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0211 | 3411 | 2727 | 0006124 | 0016 | 14579 | 790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0021 | 0211 | 34106 | 2727 | | | 14579 | 790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0102 | 3424 | 2750 | 0005981 | 0023 | 14534 | 816 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0048 | -0051 | 34583 | 2781 | | | 14472 | 833 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0060 | 3461 | 2784 | 0002694 | 0032 | 14468 | 826 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0121 | 3481 | 2803 | 0000698 | 0036 | 14447 | 768 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0075 | -0121 | 34813 | 2803 | | | 14447 | 768 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0091 | 3485 | 2805 | 0000720 | 0038 | 14466 | 772 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0102 | -0089 | 34855 | 2805 | | | 14467 | 772 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0086 | 3487 | 2806 | 0000591 | 0040 | 14472 | 772 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | -0082 | 3488 | 2807 | 0000493 | 0041 | 14479 | 773 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | 0156 | -0081 | 34887 | 2807 | | | 14480 | 773 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | -0098 | | | | | 765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | | OBS | T0220 | -0112 | | | | | 758 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METER | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|--------------|----------------------|------------------------|----------------|--------------------|---|---|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-----|-----|----------------------|----------------|------|---------------------------|-----|------|--|------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|--|----|-----|-----|-----|-----|---|----|
| CRUISE NO. | STATION NUMBER | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | | AMT | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 76435N | 057440E | 283 | 67 | 09 | 10 | 226 | 1967 | 067 | 0106 | 01 | 26 | 6 | | | 85 | 08 | | | 0066 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>29</td> <td>508</td> <td>000</td> <td>015</td> <td>008</td> <td>7</td> <td>08</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | WIND | | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. M | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | | | | 29 | 508 | 000 | 015 | 008 | 7 | 08 |
| WATER | | WIND | | BARO- METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. M | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 29 | 508 | 000 | 015 | 008 | 7 | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P 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 | CL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0219 | 3418 | 2732 | 0007615 | 0000 | 14580 | 769 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0000 | 0219 | 34180 | 2732 | | | 14580 | 769 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0005 | 0218 | 34177 | 2732 | | | 14580 | 774 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0219 | 3418 | 2732 | 0007649 | 0008 | 14581 | 775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | OBS | 0010 | 0219 | 34176 | 2732 | | | 14581 | 775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0220 | 3418 | 2732 | 0007652 | 0015 | 14583 | 776 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0025 | 0220 | 34177 | 2732 | | | 14584 | 776 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0137 | 3431 | 2749 | 0006055 | 0022 | 14550 | 789 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0074 | 3470 | 2792 | 0001986 | 0030 | 14463 | 809 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0050 | -0074 | 34695 | 2792 | | | 14463 | 809 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0062 | 3483 | 2802 | 0001023 | 0034 | 14475 | 763 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0075 | -0062 | 34827 | 2802 | | | 14475 | 763 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0063 | 3486 | 2804 | 0000785 | 0036 | 14479 | 751 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | 0100 | -0063 | 34857 | 2804 | | | 14479 | 751 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0064 | 3489 | 2808 | 0000437 | 0036 | 14473 | 745 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 226 | | OBS | T0147 | -0119 | 34912 | 2811 | | | 14461 | 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METER | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'PL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------------|----------------------|------------------------|----------------|--------------------|---|---|-------------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----------------------|-----|-----|----------------------|----------------|------|---------------------------|-----|------|--|------------------------|--------------|--|--------------|-----------------------|-------------------------|---------------|-------------|------|----------------------|-------------|-------------|--|--|--|----|----|----|-----|-----|-----|------|---|----|
| CRUISE NO. | STATION NUMBER | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | | AMT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 77010N | 055500E | 283 | 75 | 09 | 11 | 023 | 1967 | 066 | 0159 | 01 | 32 | 4 | | | 8 | 7 | | | 0067 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>04</td> <td>21</td> <td>34</td> <td>506</td> <td>996</td> <td>009</td> <td>-002</td> <td>7</td> <td>00</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | 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 | 21 | 34 | 506 | 996 | 009 | -002 | 7 | 00 |
| 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 | 21 | 34 | 506 | 996 | 009 | -002 | 7 | 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P 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 | CL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0240 | 3412 | 2726 | 0006225 | 0000 | 14586 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0000 | 0240 | 34121 | 2726 | | | 14588 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0005 | 0239 | 34124 | 2726 | | | 14589 | 763 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0234 | 3413 | 2727 | 0006145 | 0008 | 14589 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0010 | 0239 | 34131 | 2727 | | | 14589 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0241 | 3413 | 2727 | 0006145 | 0016 | 14592 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0026 | 0241 | 34134 | 2727 | | | 14593 | 768 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0172 | 3425 | 2741 | 0006751 | 0024 | 14565 | 764 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0049 | 3469 | 2750 | 000213 | 0033 | 14474 | 775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0051 | -0055 | 34701 | 2791 | | | 14472 | 775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0020 | 3492 | 2799 | 0001271 | 0037 | 14494 | 766 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0077 | -0018 | 34825 | 2800 | | | 14495 | 759 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0016 | 3486 | 2802 | 0000987 | 0040 | 14500 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0103 | -0016 | 34865 | 2803 | | | 14501 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0043 | 3487 | 2804 | 0000781 | 0042 | 14492 | 762 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | OBS | 0138 | -0072 | 34870 | 2806 | | | 14481 | 763 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARSSEN SQUARE 10° 1' | 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:10 | | | CRUISE NO. | STATION NUMBER | DIR | | HGT PER | SEA | |
| 311 | 167 | EW | 77180N | 053580E | 283 | 73 | 07 | 11 | 057 | 1967 | | 065 | 0340 | 03 | 32 | 3 | | 6 | 2 | 0068 |

| 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 | | | |
| 06 | 26 | 35 | S11 | 048 | -002 | -012 | 8 | 10 | |

| MESSING TIME OF HR:10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | SOUND 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 -S μg-at/l | pH | S C C |
|-----------------------------|------------|--------------|-----------|-------|-------|---------|---|---------------------------------------|-------------------|---------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----|-------------|
| | | STD | 0003 | 0232 | 3382 | 2703 | 0010417 | 0000 | 14581 | 768 | | | | | | | |
| 077 | | OBS | 0009 | 0232 | 33823 | 2703 | | | 14581 | 768 | | | | | | | |
| 077 | | OBS | 0005 | 0231 | 33815 | 2702 | | | 14581 | 782 | | | | | | | |
| | | STD | 0010 | 0231 | 3382 | 2702 | 0010436 | 0010 | 14582 | 776 | | | | | | | |
| 077 | | OBS | 0011 | 0231 | 33827 | 2703 | | | 14582 | 775 | | | | | | | |
| | | STD | 0020 | 0232 | 33824 | 2703 | 0010422 | 0021 | 14584 | 786 | | | | | | | |
| 077 | | OBS | 0027 | 0242 | 33824 | 2703 | | | 14585 | 793 | | | | | | | |
| | | STD | 0030 | 0165 | 3396 | 2714 | 0010900 | 0031 | 14558 | 780 | | | | | | | |
| | | STD | 0050 | -0133 | 3451 | 2787 | 0010421 | 0042 | 14434 | 760 | | | | | | | |
| 077 | | OBS | 0054 | -0136 | 34667 | 2787 | | | 14425 | 764 | | | | | | | |
| | | STD | 0074 | -0121 | 3476 | 2794 | 0010369 | 0047 | 14435 | 764 | | | | | | | |
| 077 | | OBS | 0081 | -0133 | 34761 | 2794 | | | 14430 | 760 | | | | | | | |
| | | STD | 0100 | -0177 | 3480 | 2804 | 0010207 | 0050 | 14437 | 755 | | | | | | | |
| 077 | | OBS | 0107 | -0172 | 34838 | 2804 | | | 14436 | 755 | | | | | | | |
| | | STD | 0127 | -0132 | 3486 | 2805 | 0010330 | 0052 | 14436 | 754 | | | | | | | |
| | | STD | 0150 | -0018 | 3492 | 2805 | 0010442 | 0053 | 14437 | 757 | | | | | | | |
| 077 | | OBS | 0152 | -0024 | 34925 | 2805 | | | 14437 | 757 | | | | | | | |
| | | STD | 0200 | -004 | 3494 | 2805 | 0010311 | 0054 | 14434 | 743 | | | | | | | |
| 077 | | OBS | 0214 | -0070 | 34944 | 2805 | | | 14434 | 734 | | | | | | | |
| | | STD | 0230 | -0084 | 3494 | 2805 | 0010318 | 0057 | 14435 | 734 | | | | | | | |
| | | STD | 0230 | -0124 | 3494 | 2805 | 0010341 | 0057 | 14435 | 734 | | | | | | | |
| 077 | | OBS | 0236 | -0136 | 34947 | 2805 | | | 14432 | 734 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARSSEN SQUARE 10° 1' | 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:10 | | | CRUISE NO. | STATION NUMBER | DIR | | HGT PER | SEA | |
| 311 | 167 | EW | 77180N | 053580E | 283 | 73 | 07 | 11 | 057 | 1967 | | 065 | 0340 | 03 | 32 | 3 | | 6 | 8 | 0069 |

| 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 | | | |
| 06 | 32 | 36 | S17 | 048 | -014 | -013 | 8 | 10 | |

| MESSING TIME OF HR:10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | SOUND 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 -S μg-at/l | pH | S C C |
|-----------------------------|------------|--------------|-----------|-------|-------|---------|---|---------------------------------------|-------------------|---------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----|-------------|
| | | STD | 0000 | 0194 | 3347 | 2685 | 0010384 | 0000 | 14434 | 811 | | | | | | | |
| 089 | | OBS | 0004 | 0182 | 3347 | 2685 | | | 14439 | 821 | | | | | | | |
| 089 | | OBS | 0010 | 0181 | 33465 | 2685 | | | 14434 | 821 | | | | | | | |
| 089 | | OBS | 0014 | 0181 | 33474 | 2685 | | | 14430 | 815 | | | | | | | |
| | | STD | 0015 | 0181 | 3348 | 2684 | 0010367 | 0010 | 14431 | 815 | | | | | | | |
| | | STD | 0020 | 0041 | 3347 | 2685 | 0010361 | 0024 | 14431 | 819 | | | | | | | |
| 089 | | OBS | 0024 | 0071 | 3348 | 2685 | | | 14432 | 821 | | | | | | | |
| | | STD | 0025 | -002 | 3398 | 2703 | 0010327 | 0024 | 14434 | 795 | | | | | | | |
| 089 | | OBS | 0044 | -0103 | 3476 | 2704 | | | 14431 | 787 | | | | | | | |
| | | STD | 0050 | -0104 | 34 | 2794 | 0010340 | 0034 | 14431 | 746 | | | | | | | |
| 089 | | OBS | 0054 | -0092 | 34747 | 2794 | | | 14437 | 734 | | | | | | | |
| | | STD | 0074 | -0036 | 3474 | 2794 | 0010328 | 0044 | 14435 | 745 | | | | | | | |
| 089 | | OBS | 0092 | -0178 | 3477 | 2794 | | | 14437 | 764 | | | | | | | |
| | | STD | 0100 | 0122 | 3475 | 2784 | 0010376 | 0054 | 14433 | 768 | | | | | | | |
| | | STD | 0125 | -0070 | 3495 | 2807 | 0010331 | 0057 | 14434 | 762 | | | | | | | |
| 089 | | OBS | 0144 | -0126 | 34955 | 2806 | | | 14430 | 757 | | | | | | | |
| | | STD | 0145 | -0131 | 3497 | 2807 | 0010373 | 0059 | 14435 | 747 | | | | | | | |
| 089 | | OBS | 0148 | -0107 | 34974 | 2807 | | | 14436 | 750 | | | | | | | |
| | | STD | 0200 | -0040 | 3474 | 2812 | 0010347 | 0055 | 14433 | 723 | | | | | | | |
| | | STD | 0230 | -0046 | 34947 | 2814 | -0010382 | 0056 | 14433 | 722 | | | | | | | |
| 089 | | OBS | 0236 | -0102 | 34977 | 2815 | | | 14431 | 722 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METER | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|--------------------------|----------|------------|------------------|-------------------|----------------|------------------|---|---|----------------|---------------------|--|-------------------------------------|--|--|--|-------------------|--------|-----|--------------|-------------------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | | |
| 311165 | Ew | | 77525N | 050040E | 283 | 70 | 09 | 11 | 120 | 1967 | 063 | 0225 | 02 | 36 | 3 | | | | 6 | 8 | 0070 |
| | | WATER | | WIND | | BARO-METER | | 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 | | | | | | | | | | | |
| | | 06 | 36 | 04 | 513 | 072 | -016 | -027 | 8 | 09 | | | | | | | | | | | |
| MESSAGE TIME of HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | $\Sigma \Delta D$ DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | TOTAL-P $\mu\text{g} - \text{dl/l}$ | NO ₂ -N $\mu\text{g} - \text{dl/l}$ | NO ₃ -N $\mu\text{g} - \text{dl/l}$ | SiO ₄ -Si $\mu\text{g} - \text{dl/l}$ | pH | S.C.C. | | | | |
| | | STD | 0000 | 0068 | 3353 | 2690 | 0011592 | 0000 | 14503 | 818 | | | | | | | | | | | |
| 120 | | OBS | 0000 | 0068 | 33526 | 2690 | | | 14503 | 818 | | | | | | | | | | | |
| 120 | | OBS | 0004 | 0066 | 33528 | 2691 | | | 14503 | 817 | | | | | | | | | | | |
| 120 | | STD | 0010 | 0066 | 3354 | 2691 | 0011496 | 0012 | 14504 | 819 | | | | | | | | | | | |
| 120 | | OBS | 0010 | 0066 | | | | | | 819 | | | | | | | | | | | |
| 120 | | STD | 0020 | 0067 | 3355 | 2692 | 0011393 | 0023 | 14507 | 819 | | | | | | | | | | | |
| 120 | | OBS | 0024 | 0067 | 33557 | 2693 | | | 14507 | 819 | | | | | | | | | | | |
| 120 | | STD | 0030 | -0011 | 3394 | 2728 | 0008031 | 0033 | 14478 | 801 | | | | | | | | | | | |
| 120 | | OBS | 0047 | -0154 | 34645 | 2790 | | | 14424 | | | | | | | | | | | | |
| 120 | | STD | 0050 | -0154 | 3466 | 2792 | 0001973 | 0043 | 14425 | 756 | | | | | | | | | | | |
| 120 | | OBS | 0071 | -0156 | 34712 | 2796 | | | 14428 | 734 | | | | | | | | | | | |
| 120 | | STD | 0075 | -0156 | 3472 | 2796 | 0001496 | 0047 | 14429 | 735 | | | | | | | | | | | |
| 120 | | OBS | 0095 | -0154 | 34748 | 2799 | | | 14434 | 739 | | | | | | | | | | | |
| 120 | | STD | 0100 | -0151 | 3475 | 2799 | 0001269 | 0050 | 14436 | 740 | | | | | | | | | | | |
| 120 | | STD | 0125 | -0133 | 3479 | 2801 | 0001012 | 0053 | 14449 | 743 | | | | | | | | | | | |
| 120 | | OBS | 0143 | -0119 | 34817 | 2803 | | | 14459 | 746 | | | | | | | | | | | |
| 120 | | STD | 0150 | -0113 | 3483 | 2804 | 0000771 | 0056 | 14463 | 744 | | | | | | | | | | | |
| 120 | | OBS | T0191 | -0075 | 34932 | 2811 | | | 14489 | 716 | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METER | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|--------------------------|----------|------------|------------------|-------------------|----------------|------------------|---|---|----------------|---------------------|--|-------------------------------------|--|--|--|-------------------|--------|-----|--------------|-------------------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | | |
| 311165 | Ew | | 78100N | 048000E | 284 | 88 | 09 | 11 | 149 | 1967 | 062 | 0320 | 03 | 36 | 3 | | | 5 | 8 | 0071 | |
| | | WATER | | WIND | | BARO-METER | | 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 | | | | | | | | | | | |
| | | 06 | 31 | 01 | 510 | 102 | -022 | -029 | 3 | 10 | | | | | | | | | | | |
| MESSAGE TIME of HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | $\Sigma \Delta D$ DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | TOTAL-P $\mu\text{g} - \text{dl/l}$ | NO ₂ -N $\mu\text{g} - \text{dl/l}$ | NO ₃ -N $\mu\text{g} - \text{dl/l}$ | SiO ₄ -Si $\mu\text{g} - \text{dl/l}$ | pH | S.C.C. | | | | |
| | | STD | 0000 | 0102 | 3349 | 2685 | 0012098 | 0000 | 14518 | 809 | | | | | | | | | | | |
| 149 | | OBS | 0000 | 0102 | 33485 | 2685 | | | 14518 | 809 | | | | | | | | | | | |
| 149 | | OBS | 0005 | 0101 | 33484 | 2685 | | | 14519 | 815 | | | | | | | | | | | |
| 149 | | STD | 0010 | 0100 | 3348 | 2685 | 0012132 | 0012 | 14519 | 811 | | | | | | | | | | | |
| 149 | | OBS | 0010 | 0100 | 33479 | 2685 | | | 14519 | 811 | | | | | | | | | | | |
| 149 | | STD | 0020 | 0033 | 3382 | 2716 | 0009163 | 0023 | 14495 | 861 | | | | | | | | | | | |
| 149 | | OBS | 0025 | -0006 | 34014 | 2733 | | | 14481 | 872 | | | | | | | | | | | |
| 149 | | STD | 0030 | -0039 | 3417 | 2748 | 0006149 | 0030 | 14468 | 850 | | | | | | | | | | | |
| 149 | | STD | 0050 | -0153 | 3468 | 2792 | 0001822 | 0039 | 14426 | 773 | | | | | | | | | | | |
| 149 | | OBS | 0051 | -0156 | 34695 | 2794 | | | 14425 | 771 | | | | | | | | | | | |
| 149 | | STD | 0075 | -0164 | 3473 | 2798 | 0001394 | 0042 | 14425 | 759 | | | | | | | | | | | |
| 149 | | OBS | 0077 | -0165 | 34733 | 2798 | | | 14425 | 755 | | | | | | | | | | | |
| 149 | | STD | 0100 | -0160 | 3476 | 2800 | 0001164 | 0046 | 14432 | 759 | | | | | | | | | | | |
| 149 | | OBS | 0101 | -0159 | 34765 | 2800 | | | 14433 | 759 | | | | | | | | | | | |
| 149 | | STD | 0125 | -0130 | 3481 | 2803 | 0000870 | 0048 | 14451 | 754 | | | | | | | | | | | |
| 149 | | STD | 0150 | -0109 | 3486 | 2806 | 0000557 | 0050 | 14466 | 760 | | | | | | | | | | | |
| 149 | | OBS | 0154 | -0107 | 34861 | 2806 | | | 14467 | 760 | | | | | | | | | | | |
| 149 | | STD | 0200 | -0106 | 3491 | 2809 | 0000252 | 0052 | 14476 | 751 | | | | | | | | | | | |
| 149 | | OBS | T0203 | -0105 | 34905 | 2810 | | | 14477 | 750 | | | | | | | | | | | |
| 149 | | STD | 0250 | -0107 | 3494 | 2813 | -0000075 | 0052 | 14484 | 735 | | | | | | | | | | | |
| 149 | | OBS | T0297 | -0112 | 34980 | 2816 | | | 14490 | 716 | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1.10 | LONGITUDE 1.10 | WARSQEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS DIR HGT PER SEA | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|-----------------------|-----------|-----------|------------------|-------------------|----------------|--------------------|--|---------------------------------|----------------------|---------------------|----------------------------|-----------------|----------------------------|--------------------------------------|------------------------------|-------------------------|---------------------|
| CTRY CODE | ID. NO. | | | | | MO | DAY | HR.10 | | CRUISE NO. | STATION NUMBER | | | | | | |
| 311165 | EW | | 7714 N | 046150E | 284 | 76 | 05 | 11 | 201 | 1967 | 075 | 050 | 00 | 35 | 2 | 5 | 0072 |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | |
| COLOR CODE | TRANS. IN | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | |
| | | | | 1015 | 17.4 | 17.1 | 9 | 08 | | | | | | | | | |
| MISSING TIME HR. 1-10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S °C | SIGMA-T | SPECIFIC VOLUME ANOMALY (10 ³) | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SIO ₄ -Si μg-at/l | pH | S/C |
| | | STD | 1000 | 0163 | 3350 | 2690 | 0011141 | 0000 | 14547 | 774 | | | | | | | |
| 001 | 037 | 0000 | 0000 | 0163 | 3350 | 2690 | 0011141 | 0000 | 14547 | 774 | | | | | | | |
| 001 | 009 | 0000 | 0000 | 0164 | 3350 | 2690 | 0011141 | 0000 | 14546 | 773 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0165 | 3350 | 2690 | 0011141 | 0000 | 14546 | 774 | | | | | | | |
| | | STD | 0000 | 0165 | 3350 | 2690 | 0011141 | 0000 | 14545 | 774 | | | | | | | |
| | | STD | 0000 | 0166 | 3350 | 2690 | 0011141 | 0000 | 14545 | 776 | | | | | | | |
| | | STD | 0000 | 0167 | 3350 | 2690 | 0011141 | 0000 | 14546 | 792 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0168 | 3350 | 2690 | 0011141 | 0000 | 14539 | 767 | | | | | | | |
| | | STD | 0000 | 0169 | 3350 | 2690 | 0011141 | 0000 | 14536 | 777 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0170 | 3350 | 2690 | 0011141 | 0000 | 14540 | 740 | | | | | | | |
| | | STD | 0000 | 0171 | 3350 | 2690 | 0011141 | 0000 | 14540 | 736 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0172 | 3350 | 2690 | 0011141 | 0000 | 14540 | 735 | | | | | | | |
| | | STD | 0000 | 0173 | 3350 | 2690 | 0011141 | 0000 | 14540 | 734 | | | | | | | |
| | | STD | 0000 | 0174 | 3350 | 2690 | 0011141 | 0000 | 14544 | 745 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0175 | 3350 | 2690 | 0011141 | 0000 | 14546 | 750 | | | | | | | |
| | | STD | 0000 | 0176 | 3350 | 2690 | 0011141 | 0000 | 14540 | 750 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0177 | 3350 | 2690 | 0011141 | 0000 | 14537 | 745 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1.10 | LONGITUDE 1.10 | WARSQEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS DIR HGT PER SEA | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|-----------------------|-----------|-----------|------------------|-------------------|----------------|--------------------|--|---------------------------------|----------------------|---------------------|----------------------------|-----------------|----------------------------|--------------------------------------|------------------------------|-------------------------|---------------------|
| CTRY CODE | ID. NO. | | | | | MO | DAY | HR.10 | | CRUISE NO. | STATION NUMBER | | | | | | |
| 311165 | EW | | 7714 N | 046150E | 284 | 76 | 05 | 11 | 201 | 1967 | 075 | 050 | 00 | 35 | 2 | 5 | 0072 |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | |
| COLOR CODE | TRANS. IN | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | |
| | | | | 1014 | 17.4 | 17.1 | 9 | 08 | | | | | | | | | |
| MISSING TIME HR. 1-10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S °C | SIGMA-T | SPECIFIC VOLUME ANOMALY (10 ³) | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SIO ₄ -Si μg-at/l | pH | S/C |
| | | STD | 1000 | 0163 | 3350 | 2690 | 0011141 | 0000 | 14547 | 774 | | | | | | | |
| 001 | 037 | 0000 | 0000 | 0163 | 3350 | 2690 | 0011141 | 0000 | 14547 | 774 | | | | | | | |
| 001 | 009 | 0000 | 0000 | 0164 | 3350 | 2690 | 0011141 | 0000 | 14546 | 773 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0165 | 3350 | 2690 | 0011141 | 0000 | 14546 | 774 | | | | | | | |
| | | STD | 0000 | 0165 | 3350 | 2690 | 0011141 | 0000 | 14545 | 774 | | | | | | | |
| | | STD | 0000 | 0166 | 3350 | 2690 | 0011141 | 0000 | 14545 | 776 | | | | | | | |
| | | STD | 0000 | 0167 | 3350 | 2690 | 0011141 | 0000 | 14546 | 792 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0168 | 3350 | 2690 | 0011141 | 0000 | 14539 | 767 | | | | | | | |
| | | STD | 0000 | 0169 | 3350 | 2690 | 0011141 | 0000 | 14536 | 777 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0170 | 3350 | 2690 | 0011141 | 0000 | 14540 | 740 | | | | | | | |
| | | STD | 0000 | 0171 | 3350 | 2690 | 0011141 | 0000 | 14540 | 736 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0172 | 3350 | 2690 | 0011141 | 0000 | 14540 | 735 | | | | | | | |
| | | STD | 0000 | 0173 | 3350 | 2690 | 0011141 | 0000 | 14540 | 734 | | | | | | | |
| | | STD | 0000 | 0174 | 3350 | 2690 | 0011141 | 0000 | 14544 | 745 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0175 | 3350 | 2690 | 0011141 | 0000 | 14546 | 750 | | | | | | | |
| | | STD | 0000 | 0176 | 3350 | 2690 | 0011141 | 0000 | 14540 | 750 | | | | | | | |
| 001 | 000 | 0000 | 0000 | 0177 | 3350 | 2690 | 0011141 | 0000 | 14537 | 745 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIFT INDICATOR | MARSOEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 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 | AMT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | | 76454N | 049480E | | 284 | 64 | 09 | 12 | 023 | 1967 | | 073 | 0284 | 03 | 36 | 2 | | | | 0074 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="3">WATER</th> <th colspan="3">WIND</th> <th colspan="3">AIR TEMP. °C</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR</th> <th>SPEED OF FORCE</th> <th>BARO-METER (mbs)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>VIS. CODE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>01</td> <td>506</td> <td>134</td> <td>-006</td> <td>-017</td> <td>8</td> <td>10</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | | WIND | | | AIR TEMP. °C | | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. (m) | DIR | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | 01 | 506 | 134 | -006 | -017 | 8 | 10 | |
| WATER | | | WIND | | | AIR TEMP. °C | | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 01 | 506 | 134 | -006 | -017 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g-at/l}$ | TOTAL-P $\mu\text{g-at/l}$ | NO ₂ -N $\mu\text{g-at/l}$ | NO ₃ -N $\mu\text{g-at/l}$ | SiO ₄ -Si $\mu\text{g-at/l}$ | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0129 | 3355 | 2688 | 0011761 | 0000 | 14531 | 802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0000 | 0129 | 33551 | 2688 | | | 14531 | 802 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0005 | 0128 | 33551 | 2689 | | | 14532 | 806 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0127 | 3355 | 2689 | 0011750 | 0012 | 14532 | 801 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0010 | 0127 | 33551 | 2689 | | | 14532 | 801 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0128 | 3355 | 2688 | 0011763 | 0024 | 14534 | 803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0025 | 0128 | 33550 | 2688 | | | 14535 | 804 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0642 | 3387 | 2714 | 0006629 | 0034 | 14501 | 800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0049 | -0169 | 34657 | 2792 | | | 14418 | 782 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0169 | 3466 | 2792 | 0001930 | 0045 | 14418 | 780 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0074 | -0167 | 34705 | 2796 | | | 14424 | 753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0166 | 3471 | 2796 | 0001542 | 0049 | 14424 | 753 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0099 | -0137 | 34775 | 2800 | | | 14443 | 759 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0134 | 3478 | 2801 | 0001095 | 0052 | 14444 | 759 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0075 | 3484 | 2803 | 0000657 | 0055 | 14477 | 760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | 0149 | -0037 | 34895 | 2806 | | | 14499 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | -0035 | 3490 | 2806 | 0000575 | 0056 | 14500 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | -0018 | 3496 | 2810 | 0000222 | 0058 | 14517 | 758 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | T0200 | -0018 | 34958 | 2810 | | | 14517 | 733 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0250 | -0049 | 3497 | 2812 | -0000012 | 0059 | 14511 | 719 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | OBS | T0256 | -0058 | 34968 | 2812 | | | 14509 | 716 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIFT INDICATOR | MARSOEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF 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 | AMT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | | 76295N | 051350E | | 283 | 01 | 09 | 12 | 058 | 1967 | | 072 | 0329 | 03 | 01 | 21 | | | | 0075 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="3">WATER</th> <th colspan="3">WIND</th> <th colspan="3">AIR TEMP. °C</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR CODE</th> <th>TRANS. (m)</th> <th>DIR</th> <th>SPEED OF FORCE</th> <th>BARO-METER (mbs)</th> <th>DRY BULB</th> <th>WET BULB</th> <th>VIS. CODE</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>27</td> <td>04</td> <td>507</td> <td>132</td> <td>-004</td> <td>-014</td> <td>8</td> <td>10</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | | WIND | | | AIR TEMP. °C | | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. (m) | DIR | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | 06 | 27 | 04 | 507 | 132 | -004 | -014 | 8 | 10 | |
| WATER | | | WIND | | | AIR TEMP. °C | | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR | SPEED OF FORCE | BARO-METER (mbs) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 27 | 04 | 507 | 132 | -004 | -014 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g-at/l}$ | TOTAL-P $\mu\text{g-at/l}$ | NO ₂ -N $\mu\text{g-at/l}$ | NO ₃ -N $\mu\text{g-at/l}$ | SiO ₄ -Si $\mu\text{g-at/l}$ | pH | S C C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0180 | 3365 | 2693 | 0011378 | 0000 | 14555 | 783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0000 | 0180 | 33646 | 2693 | | | 14555 | 783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0005 | 0178 | 33650 | 2693 | | | 14555 | 790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0009 | 0179 | 33676 | 2695 | | | 14557 | 787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0179 | 3368 | 2695 | 0011139 | 0011 | 14557 | 787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0181 | 3368 | 2696 | 0011076 | 0022 | 14559 | 787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0024 | 0181 | 33691 | 2696 | | | 14560 | 787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0263 | 3401 | 2724 | 0007678 | 0032 | 14513 | 786 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0049 | -0168 | 34666 | 2792 | | | 14418 | 776 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | -0167 | 3467 | 2793 | 0001859 | 0042 | 14419 | 777 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0073 | -0149 | 34724 | 2797 | | | 14432 | 756 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | -0148 | 3473 | 2797 | 0001443 | 0046 | 14433 | 757 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0098 | -0136 | 34776 | 2801 | | | 14443 | 762 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | -0128 | 3479 | 2801 | 0001039 | 0049 | 14447 | 761 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | -0048 | 3486 | 2804 | 0000426 | 0051 | 14490 | 755 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | 0146 | -0009 | 34905 | 2805 | | | 14512 | 752 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | -0009 | 3491 | 2806 | 0000637 | 0053 | 14512 | 752 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | T0195 | -0015 | 34925 | 2807 | | | 14517 | 751 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | -0016 | 3493 | 2808 | 0000468 | 0056 | 14518 | 750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0250 | -0033 | 3494 | 2810 | 0000261 | 0058 | 14519 | 735 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0300 | -0061 | 3496 | 2812 | -0000011 | 0058 | 14514 | 707 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 059 | | OBS | T0302 | -0062 | 34959 | 2812 | | | 14514 | 706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INDEX | MARSOEN 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 311165 | EW | 76125N | 053230E | 285 | 63 | 09 | 12 | 086 | 1967 | 071 | 0115 | 01 | 01 | 2 | | 0 | 8 | | 0076 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>05</td> <td>31</td> <td>32</td> <td>31J</td> <td>125</td> <td>023</td> <td>008</td> <td>8</td> <td>07</td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | WATER | | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | WET BULB | 05 | 31 | 32 | 31J | 125 | 023 | 008 | 8 | 07 | | |
| WATER | | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | DRY BULB | | WET BULB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 31 | 32 | 31J | 125 | 023 | 008 | 8 | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MESSNGR TIME (HR. 1/10) | CASID NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | 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 | 0289 | 3405 | 2735 | 0007368 | 0000 | 14612 | 759 | | | | | | | |
| | 086 | OBS | 0000 | 0289 | 34287 | 2735 | | | 14612 | 759 | | | | | | | |
| | 086 | OBS | 0005 | 0288 | 34282 | 2735 | | | 14612 | 762 | | | | | | | |
| | | STD | 0010 | 0286 | 34284 | 2735 | 0007471 | 0007 | 14612 | 762 | | | | | | | |
| | 086 | OBS | 0010 | 0286 | 34284 | 2735 | | | 14612 | 762 | | | | | | | |
| | | STD | 0020 | 0287 | 34284 | 2735 | 0007474 | 0014 | 14614 | 764 | | | | | | | |
| | 086 | OBS | 0024 | 0288 | 34287 | 2735 | | | 14615 | 765 | | | | | | | |
| | | STD | 0030 | 0163 | 3442 | 2756 | 0005399 | 0021 | 14553 | 787 | | | | | | | |
| | 086 | OBS | 0044 | -0092 | 34725 | 2795 | | | 14455 | 817 | | | | | | | |
| | | STD | 0050 | -0072 | 3473 | 2795 | 0001645 | 0028 | 14455 | 814 | | | | | | | |
| | 086 | OBS | 0074 | -0079 | 3485 | 2815 | | | 14457 | 765 | | | | | | | |
| | | STD | 0075 | -0100 | 3486 | 2815 | 0000516 | 0031 | 14457 | 764 | | | | | | | |
| | 086 | OBS | 0097 | -0145 | 34931 | 2815 | | | 14443 | 749 | | | | | | | |

| REFERENCE | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INDEX | MARSOEN 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 311167 | EW | 75974N | 050000E | 285 | 29 | 04 | 12 | 125 | 1967 | 070 | 0082 | 01 | 01 | 2 | | 0 | 8 | | 0077 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>30</td> <td>34</td> <td>31L</td> <td>120</td> <td>013</td> <td>001</td> <td>7</td> <td>03</td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | 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 | 30 | 34 | 31L | 120 | 013 | 001 | 7 | 03 | | |
| 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 | 30 | 34 | 31L | 120 | 013 | 001 | 7 | 03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MESSNGR TIME (HR. 1/10) | CASID NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | 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 | 0145 | 3421 | 2738 | 0007103 | 0000 | 14570 | 784 | | | | | | | |
| | 116 | OBS | 0000 | 0145 | 34224 | 2748 | | | 14570 | 784 | | | | | | | |
| | 116 | OBS | 0005 | 0145 | 34229 | 2739 | | | 14570 | 790 | | | | | | | |
| | | STD | 0010 | 0145 | 3423 | 2739 | 0007044 | 0007 | 14571 | 802 | | | | | | | |
| | 116 | OBS | 0010 | 0145 | 3423 | 2739 | | | 14571 | 802 | | | | | | | |
| | | STD | 0020 | 0144 | 3423 | 2735 | 0007098 | 0014 | 14573 | 794 | | | | | | | |
| | 116 | OBS | 0020 | 0144 | 3423 | 2735 | | | 14574 | 794 | | | | | | | |
| | | STD | 0030 | 0174 | 3423 | 2743 | 0000001 | 0021 | 14568 | 788 | | | | | | | |
| | | STD | 0050 | 0032 | 3452 | 2771 | 0003625 | 0032 | 14503 | 779 | | | | | | | |
| | 116 | OBS | 0055 | -0167 | 3486 | 2815 | | | 14475 | 776 | | | | | | | |

| REFERENCE | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INDEX | MARSOEN 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 311167 | EW | 75974N | 050310E | 285 | 56 | 09 | 12 | 125 | 1967 | 069 | 0160 | 02 | 01 | 2 | | 0 | 8 | | 0078 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <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>SPEED OR FORCE</th> <th>DRY BULB</th> <th>WET BULB</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>02</td> <td>36</td> <td>12</td> <td>105</td> <td>014</td> <td>005</td> <td>5</td> <td>05</td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | 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 | 11 | 02 | 36 | 12 | 105 | 014 | 005 | 5 | 05 | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 02 | 36 | 12 | 105 | 014 | 005 | 5 | 05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MESSNGR TIME (HR. 1/10) | CASID NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | 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 | 0422 | 3335 | 2648 | 0000516 | 0000 | 14656 | 734 | | | | | | | |
| | 143 | OBS | 0000 | 0422 | 33354 | 2648 | | | 14656 | 734 | | | | | | | |
| | 143 | OBS | 0005 | 0422 | 33352 | 2648 | | | 14657 | 745 | | | | | | | |
| | | STD | 0010 | 0423 | 3335 | 2648 | 0000644 | 0016 | 14658 | 735 | | | | | | | |
| | 143 | OBS | 0010 | 0423 | 33353 | 2648 | | | 14658 | 735 | | | | | | | |
| | | STD | 0020 | 0428 | 3365 | 2685 | 0111765 | 0029 | 14650 | 743 | | | | | | | |
| | 145 | OBS | 0020 | 0383 | 34055 | 2710 | | | 14652 | 750 | | | | | | | |
| | | STD | 0030 | 0324 | 3421 | 2725 | 0000347 | 0039 | 14630 | 759 | | | | | | | |
| | | STD | 0050 | 0104 | 3462 | 2776 | 0000412 | 0051 | 14543 | 801 | | | | | | | |
| | 145 | OBS | 0052 | 0137 | 34644 | 2774 | | | 14536 | 805 | | | | | | | |
| | | STD | 0075 | -0034 | 3476 | 2745 | 0001661 | 0056 | 14466 | 754 | | | | | | | |
| | 145 | OBS | 0078 | -0043 | 34766 | 2746 | | | 14463 | 750 | | | | | | | |
| | | STD | 0100 | -0166 | 3475 | 2798 | 0001327 | 0061 | 14481 | 740 | | | | | | | |
| | 145 | OBS | 0104 | -0158 | 34742 | 2799 | | | 14481 | 739 | | | | | | | |
| | | STD | 0125 | -0159 | 3482 | 2801 | 0001074 | 0064 | 14484 | 743 | | | | | | | |
| | | STD | 0150 | -0161 | 3483 | 2801 | 0000445 | 0067 | 14487 | 725 | | | | | | | |
| | 145 | OBS | 0151 | -0161 | 34835 | 2801 | | | 14488 | 725 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METERS | 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 | SEA | | TYPE |
| 311165 | | Ew | 74510N | 054340E | 283 | 44 | 09 | 12 | 195 | 1967 | 082 | | 0174 | 02 | 02 | 1 | | | 5 | 8 | 0079 | | |
| | | 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 | | | | | | | | | | | |
| | | | | 32 | | S13 | | 117 | | 027 | | 015 | | 8 | | 08 | | | | | | | |
| 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 | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | STATUS | | | | | | |
| | | STD | 0000 | 0473 | 3394 | 2689 | 0011709 | 0000 | 14685 | 720 | | | | | | | | | | | | | |
| 195 | | OBS | 0000 | 0473 | 3394.3 | 2689 | | | 14685 | 720 | | | | | | | | | | | | | |
| 195 | | OBS | 0005 | 0472 | 3392.2 | 2687 | | | 14685 | 732 | | | | | | | | | | | | | |
| | | STD | 0010 | 0473 | 3393 | 2688 | 0011801 | 0012 | 14686 | 736 | | | | | | | | | | | | | |
| 195 | | OBS | 0010 | 0473 | 3393.2 | 2688 | | | 14686 | 736 | | | | | | | | | | | | | |
| | | STD | 0020 | 0456 | 3418 | 2710 | 0009771 | 0023 | 14684 | 743 | | | | | | | | | | | | | |
| 195 | | OBS | 0025 | 0432 | 3430.3 | 2722 | | | 14677 | 746 | | | | | | | | | | | | | |
| | | STD | 0030 | 0354 | 3446 | 2743 | 0006664 | 0031 | 14647 | 750 | | | | | | | | | | | | | |
| | | STD | 0050 | 0137 | 3485 | 2792 | 0001965 | 0039 | 14561 | 764 | | | | | | | | | | | | | |
| 195 | | OBS | 0051 | 0130 | 3486.3 | 2794 | | | 14558 | 765 | | | | | | | | | | | | | |
| | | STD | 0075 | 0083 | 3487 | 2797 | 0001450 | 0044 | 14541 | 750 | | | | | | | | | | | | | |
| 195 | | OBS | 0075 | 0083 | 3487.2 | 2797 | | | 14541 | 750 | | | | | | | | | | | | | |
| | | STD | 0100 | 0022 | 3486 | 2800 | 0001185 | 0047 | 14518 | 732 | | | | | | | | | | | | | |
| 195 | | OBS | 0101 | 0019 | 3465.5 | 2800 | | | 14516 | 731 | | | | | | | | | | | | | |
| | | STD | 0125 | -0047 | 3486 | 2804 | 0000830 | 0049 | 14490 | 735 | | | | | | | | | | | | | |
| | | STD | 0150 | -0123 | 3487 | 2807 | 0000466 | 0051 | 14459 | 761 | | | | | | | | | | | | | |
| 195 | | OBS | T0158 | -0149 | 3486.7 | 2808 | | | 14448 | 774 | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METERS | 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 | SEA | | TYPE |
| 311165 | | Ew | 75055N | 052550E | 283 | 52 | 09 | 12 | 229 | 1967 | 081 | | 0163 | 02 | 01 | 2 | | 5 | 8 | 0080 | | | |
| | | 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 | | | | | | | | | | | |
| | | | | 30 | | S15 | | 099 | | 027 | | 015 | | 8 | | 07 | | | | | | | |
| 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 | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | STATUS | | | | | | |
| | | STD | 0000 | 0291 | 3413 | 2722 | 0008608 | 0000 | 14610 | 786 | | | | | | | | | | | | | |
| 229 | | OBS | 0000 | 0291 | 3412.5 | 2722 | | | 14610 | 786 | | | | | | | | | | | | | |
| 229 | | OBS | 0005 | 0290 | 3412.0 | 2721 | | | 14611 | 781 | | | | | | | | | | | | | |
| | | STD | 0010 | 0290 | 3412 | 2721 | 0008651 | 0009 | 14611 | 782 | | | | | | | | | | | | | |
| 229 | | OBS | 0010 | 0290 | 3411.9 | 2721 | | | 14611 | 782 | | | | | | | | | | | | | |
| | | STD | 0020 | 0181 | 3433 | 2747 | 0006205 | 0016 | 14568 | 789 | | | | | | | | | | | | | |
| | | STD | 0030 | 0092 | 3451 | 2768 | 0004247 | 0021 | 14533 | 795 | | | | | | | | | | | | | |
| | | STD | 0050 | -0032 | 3475 | 2794 | 0001765 | 0027 | 14483 | 808 | | | | | | | | | | | | | |
| 229 | | OBS | 0050 | -0032 | 3474.8 | 2794 | | | 14483 | 806 | | | | | | | | | | | | | |
| | | STD | 0075 | -0081 | 3484 | 2803 | 0000874 | 0031 | 14466 | 769 | | | | | | | | | | | | | |
| 229 | | OBS | 0075 | -0081 | 3483.6 | 2803 | | | 14466 | 765 | | | | | | | | | | | | | |
| | | STD | 0100 | -0161 | 3483 | 2806 | 0000625 | 0032 | 14432 | 782 | | | | | | | | | | | | | |
| 229 | | OBS | 0101 | -0163 | 3482.9 | 2806 | | | 14432 | 782 | | | | | | | | | | | | | |
| | | STD | 0125 | -0165 | 3485 | 2807 | 0000447 | 0034 | 14435 | 774 | | | | | | | | | | | | | |
| | | STD | 0150 | -0166 | 3491 | 2812 | -0000031 | 0034 | 14439 | 765 | | | | | | | | | | | | | |
| 229 | | OBS | T0165 | -0169 | 3495.9 | 2816 | | | 14441 | 760 | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH METERS | 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 | SEA | | TYPE |
| 311165 | | Ew | 75205N | 051100E | 285 | 51 | 09 | 13 | 018 | 1967 | 080 | | 0163 | 02 | 30 | 2 | | 40 | 0 | 5 | 0081 | | |
| | | 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 | | | | | | | | | | | |
| | | | | 01 | | S11 | | 118 | | 013 | | 002 | | 7 | | 06 | | | | | | | |
| 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 | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | STATUS | | | | | | |
| | | STD | 0000 | 0322 | 3440 | 2740 | 0006839 | 0000 | 14627 | 767 | | | | | | | | | | | | | |
| 018 | | OBS | 0000 | 0322 | 3439.5 | 2740 | | | 14627 | 767 | | | | | | | | | | | | | |
| 018 | | OBS | 0005 | 0322 | 3439.5 | 2740 | | | 14628 | 769 | | | | | | | | | | | | | |
| | | STD | 0010 | 0322 | 3439 | 2740 | 0006676 | 0007 | 14629 | 766 | | | | | | | | | | | | | |
| 018 | | OBS | 0010 | 0322 | 3439.1 | 2740 | | | 14629 | 766 | | | | | | | | | | | | | |
| | | STD | 0020 | 0324 | 3440 | 2741 | 0006635 | 0014 | 14632 | 767 | | | | | | | | | | | | | |
| 018 | | OBS | 0024 | 0325 | 3440.3 | 2741 | | | 14633 | 767 | | | | | | | | | | | | | |
| | | STD | 0030 | 0300 | 3445 | 2747 | 0006252 | 0020 | 14624 | 776 | | | | | | | | | | | | | |
| 018 | | OBS | 0049 | 0180 | 3459.0 | 2768 | | | 14575 | 793 | | | | | | | | | | | | | |
| | | STD | 0050 | 0165 | 3460 | 2770 | 0004056 | 0031 | 14570 | 793 | | | | | | | | | | | | | |
| 016 | | OBS | 0073 | -0065 | 3479.4 | 2799 | | | 14472 | 785 | | | | | | | | | | | | | |
| | | STD | 0075 | -0055 | 3480 | 2800 | 0001216 | 0037 | 14473 | 785 | | | | | | | | | | | | | |
| 018 | | OBS | 0098 | -0072 | 3483.5 | 2803 | | | 14474 | 779 | | | | | | | | | | | | | |
| | | STD | 0100 | -0073 | 3484 | 2803 | 0006671 | 0040 | 14474 | 776 | | | | | | | | | | | | | |
| | | STD | 0125 | -0083 | 3487 | 2806 | 0006594 | 0042 | 14474 | 767 | | | | | | | | | | | | | |
| | | STD | 0150 | -0096 | 3485 | 2808 | 0006381 | 0043 | 14472 | 750 | | | | | | | | | | | | | |
| 018 | | OBS | T0163 | -0104 | 3489.7 | 2809 | | | 14471 | 739 | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NDDC STATION NUMBER |
|------------|---------|-----------|----------|-----------|--------------|----------------|----|--------------------|-----|-----|------|--------------|------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|-----|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|----|--------|---------|--|-----|----|----|----|-----|------|-----|--|------|----|----|----|--|--|---|---|------|
| 311165 | | EA | 7536UN | 044260E | | 284 | 59 | 09 | 13 | 049 | 1967 | 079 | | 0248 | 02 | 34 | 31 | | | 6 | 8 | 0082 |
|--------|--|----|--------|---------|--|-----|----|----|----|-----|------|-----|--|------|----|----|----|--|--|---|---|------|

| WATER | | WIND | | BARO-METER (mbst) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS |
|------------|------------|------|----------------|-------------------|--------------|----------|----------|-----------------|----------------------|
| COLOR CODE | TRANS. (m) | DIR. | SPEED OF FORCE | | DRY BULB | WET BULB | | | |

| MESSAGE TIME & HR. 1-10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S.D.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 | 0452 | 3467 | 2749 | 0006005 | 0000 | 14686 | 739 | | | | | | | |
| 049 | | OBS | 0000 | 0451 | 3467 | 2749 | | | 14686 | 739 | | | | | | | |
| 049 | | OBS | 0005 | 0452 | 3467 | 2749 | | | 14687 | 739 | | | | | | | |
| 049 | | STD | 0010 | 0451 | 3465 | 2750 | 0005953 | 0006 | 14687 | 744 | | | | | | | |
| 049 | | OBS | 0010 | 0451 | 3466 | 2750 | | | 14687 | 744 | | | | | | | |
| 049 | | STD | 0020 | 0452 | 3465 | 2750 | 0005992 | 0012 | 14687 | 745 | | | | | | | |
| 049 | | OBS | 0020 | 0453 | 3466 | 2749 | | | 14687 | 746 | | | | | | | |
| 049 | | STD | 0030 | 0454 | 3472 | 2755 | 0005992 | 0010 | 14671 | 745 | | | | | | | |
| 049 | | OBS | 0030 | 0451 | 3468 | 2755 | 0005923 | 0025 | 14594 | 739 | | | | | | | |
| 049 | | STD | 0040 | 0456 | 3464 | 2750 | | | 14688 | 736 | | | | | | | |
| 049 | | OBS | 0040 | 0457 | 3464 | 2748 | 0005903 | 0030 | 14598 | 744 | | | | | | | |
| 049 | | STD | 0050 | 0458 | 3464 | 2749 | | | 14594 | 750 | | | | | | | |
| 049 | | OBS | 0100 | 0457 | 3467 | 2802 | 0005923 | 0035 | 14530 | 746 | | | | | | | |
| 049 | | STD | 0110 | 0453 | 3465 | 2803 | | | 14527 | 747 | | | | | | | |
| 049 | | OBS | 0120 | 0455 | 3461 | 2804 | 0005974 | 0035 | 14516 | 750 | | | | | | | |
| 049 | | STD | 0130 | -0424 | 349 | 2805 | 0006012 | 0037 | 14506 | 753 | | | | | | | |
| 049 | | OBS | 0150 | -0430 | 3491 | 2806 | | | 14504 | 754 | | | | | | | |
| 049 | | STD | 0200 | -0436 | 3491 | 2809 | | | 14499 | 754 | | | | | | | |
| 049 | | OBS | 11210 | -0435 | 3492 | 2810 | 0006014 | 0039 | 14499 | 753 | | | | | | | |
| 049 | | OBS | 11220 | -0435 | 3494 | 2812 | | | 14492 | 751 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NDDC STATION NUMBER |
|------------|---------|-----------|----------|-----------|--------------|----------------|----|--------------------|-----|-----|------|--------------|------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|-----|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|----|--------|---------|--|-----|----|----|----|-----|------|-----|--|------|----|----|----|--|--|---|---|------|
| 311165 | | EA | 7536UN | 044260E | | 284 | 59 | 09 | 13 | 049 | 1967 | 078 | | 0248 | 02 | 34 | 31 | | | 6 | 7 | 0083 |
|--------|--|----|--------|---------|--|-----|----|----|----|-----|------|-----|--|------|----|----|----|--|--|---|---|------|

| WATER | | WIND | | BARO-METER (mbst) | AIR TEMP. °C | | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS |
|------------|------------|------|----------------|-------------------|--------------|----------|----------|-----------------|----------------------|
| COLOR CODE | TRANS. (m) | DIR. | SPEED OF FORCE | | DRY BULB | WET BULB | | | |

| MESSAGE TIME & HR. 1-10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S.D.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 | 0429 | 3464 | 2725 | 0006104 | 0 | 14579 | 772 | | | | | | | |
| 082 | | OBS | 0000 | 0429 | 3464 | 2725 | | | 14579 | 772 | | | | | | | |
| 082 | | OBS | 0005 | 0429 | 3464 | 2725 | | | 14580 | 780 | | | | | | | |
| 082 | | STD | 0010 | 0429 | 3464 | 2725 | 0006030 | 0008 | 14581 | 776 | | | | | | | |
| 082 | | OBS | 0010 | 0429 | 3465 | 2725 | | | 14581 | 776 | | | | | | | |
| 082 | | STD | 0020 | 0429 | 3465 | 2726 | 0006030 | 0017 | 14580 | 768 | | | | | | | |
| 082 | | OBS | 0020 | 0427 | 3466 | 2726 | | | 14580 | 768 | | | | | | | |
| 082 | | STD | 0030 | 0429 | 3464 | 2747 | 0006012 | 0024 | 14597 | 761 | | | | | | | |
| 082 | | OBS | 0030 | 0431 | 3464 | 2742 | | | 14556 | 750 | | | | | | | |
| 082 | | STD | 0040 | 0429 | 3465 | 2745 | 0006034 | 0032 | 14556 | 744 | | | | | | | |
| 082 | | OBS | 0040 | 0429 | 3467 | 2801 | | | 14536 | 751 | | | | | | | |
| 082 | | STD | 0050 | 0429 | 3464 | 2802 | 0006034 | 0036 | 14534 | 751 | | | | | | | |
| 082 | | OBS | 0070 | 0429 | 3464 | 2802 | | | 14534 | 751 | | | | | | | |
| 082 | | STD | 0100 | 0429 | 3491 | 2805 | 0006034 | 0038 | 14531 | 764 | | | | | | | |
| 082 | | OBS | 0100 | -0425 | 3491 | 2806 | | | 14507 | 766 | | | | | | | |
| 082 | | STD | 0120 | -0427 | 3491 | 2807 | 0006051 | 0039 | 14502 | 764 | | | | | | | |
| 082 | | OBS | 0130 | -0424 | 3491 | 2805 | 0006034 | 0041 | 14497 | 762 | | | | | | | |
| 082 | | STD | 0140 | -0425 | 3492 | 2808 | | | 14496 | 762 | | | | | | | |
| 082 | | OBS | 11200 | -0427 | 3493 | 2811 | 0006040 | 0042 | 14491 | 761 | | | | | | | |
| 082 | | OBS | 11200 | -0427 | 3493 | 2811 | | | 14484 | 754 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIR. DRIFT HOURS | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | HODC STATION NUMBER | | | |
|--------------|------------|---------------|------------------|-------------------|------------------------|--------------------|----|-----------------------|-----|-------------|------|--------------------|---------------|-------------------------|--------------------------------|----------------------|------|-------------------------|----------------------|----------------|-----|---------------------------|-----|-----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | PER | SEA | | TYE | AMT | |
| 311165 | | EW | 76071N | 045526E | | 284 | 65 | 09 | 13 | 113 | 1967 | | 077 | 0238 | 02 | 35 | 1 | | | 6 | 8 | 0084 | | | |
| | | 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 | | VIS CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | 06 | | 20 | | 00 | | 500 | | 097 | | -004 | | -014 | | 6 | | 10 | | | | | | | |

| MESSNGR TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S % | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t^0 | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg-at/l | TOTAL-P µg-at/l | NO ₂ -N µg-at/l | NO ₃ -N µg-at/l | SiO ₂ -Si µg-at/l | PH | S C C |
|----------------------------|------------|--------------|-----------|-------|-------|---------|--|---|-------------------|---------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----|-------------|
| | | STD | 0000 | 0267 | 3407 | 2720 | 0008817 | 0000 | 14599 | 765 | | | | | | | |
| 114 | | OBS | 0000 | 0267 | 3407 | 2720 | | | 14599 | 765 | | | | | | | |
| 114 | | OBS | 0005 | 0268 | 34068 | 2719 | | | 14600 | 767 | | | | | | | |
| | | STD | 0010 | 0270 | 3408 | 2720 | 0008772 | 0009 | 14602 | 765 | | | | | | | |
| 114 | | OBS | 0010 | 0270 | 34081 | 2720 | | | 14602 | 765 | | | | | | | |
| | | STD | 0020 | 0277 | 3411 | 2722 | 0008629 | 0017 | 14607 | 762 | | | | | | | |
| 114 | | OBS | 0025 | 0280 | 34122 | 2722 | | | 14610 | 761 | | | | | | | |
| | | STD | 0030 | 0192 | 3432 | 2746 | 0006365 | 0025 | 14575 | 764 | | | | | | | |
| | | STD | 0050 | -0037 | 3486 | 2803 | 0000887 | 0032 | 14482 | 776 | | | | | | | |
| 114 | | OBS | 0051 | -0043 | 34875 | 2805 | | | 14480 | 777 | | | | | | | |
| | | STD | 0075 | -0042 | 3490 | 2806 | 0000586 | 0034 | 14485 | 766 | | | | | | | |
| 114 | | OBS | 0076 | -0042 | 34897 | 2806 | | | 14485 | 766 | | | | | | | |
| | | STD | 0100 | -0043 | 3490 | 2807 | 0000548 | 0036 | 14488 | 776 | | | | | | | |
| 114 | | OBS | 0102 | -0043 | 34905 | 2807 | | | 14489 | 777 | | | | | | | |
| | | STD | 0125 | -0062 | 3491 | 2808 | 0000418 | 0037 | 14484 | 779 | | | | | | | |
| | | STD | 0150 | -0078 | 3491 | 2809 | 0000342 | 0038 | 14481 | 782 | | | | | | | |
| 114 | | OBS | 0153 | -0079 | 34905 | 2809 | | | 14481 | 782 | | | | | | | |
| | | STD | 0200 | -0089 | 3494 | 2812 | 0000046 | 0039 | 14484 | 750 | | | | | | | |
| 114 | | OBS | T0204 | -0092 | 34939 | 2812 | | | 14484 | 744 | | | | | | | |
| 114 | | OBS | T0229 | -0118 | 34967 | 2815 | | | 14476 | 697 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIR. DRIFT HOURS | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | | HODC STATION NUMBER | | | |
|--------------|------------|---------------|------------------|-------------------|------------------------|--------------------|----|-----------------------|-----|-------------|------|--------------------|---------------|-------------------------|--------------------------------|----------------------|------|-------------------------|----------------------|----------------|-----|---------------------------|-----|-----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | | PER | SEA | | TYE | AMT | |
| 311165 | | EW | 76205N | 044030E | | 284 | 64 | 09 | 13 | 152 | 1967 | | 076 | 0208 | 02 | 35 | 2 | | | 5 | 8 | 0085 | | | |
| | | 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 | | VIS CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | 05 | | 28 | | 17 | | 507 | | 052 | | 005 | | 000 | | 8 | | 09 | | | | | | | |

| MESSNGR TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S % | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t^0 | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P µg-at/l | TOTAL-P µg-at/l | NO ₂ -N µg-at/l | NO ₃ -N µg-at/l | SiO ₂ -Si µg-at/l | PH | S C C |
|----------------------------|------------|--------------|-----------|-------|-------|---------|--|---|-------------------|---------------------|-------------------------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----|-------------|
| | | STD | 0000 | 0153 | 3354 | 2686 | 0012022 | 0000 | 14542 | 790 | | | | | | | |
| 153 | | OBS | 0000 | 0153 | 33537 | 2686 | | | 14542 | 790 | | | | | | | |
| 153 | | OBS | 0005 | 0152 | 33540 | 2686 | | | 14542 | 800 | | | | | | | |
| 153 | | OBS | 0009 | 0152 | 33539 | 2686 | | | 14543 | 785 | | | | | | | |
| | | STD | 0010 | 0148 | 3355 | 2687 | 0011892 | 0012 | 14541 | 786 | | | | | | | |
| | | STD | 0020 | 0103 | 3375 | 2706 | 0010090 | 0023 | 14526 | 806 | | | | | | | |
| 153 | | OBS | 0024 | 0080 | 33856 | 2716 | | | 14517 | 811 | | | | | | | |
| | | STD | 0030 | 0004 | 3414 | 2743 | 0006577 | 0031 | 14486 | 796 | | | | | | | |
| 153 | | OBS | 0048 | -0122 | 34716 | 2795 | | | 14441 | 764 | | | | | | | |
| | | STD | 0050 | -0119 | 3472 | 2795 | 0001625 | 0039 | 14442 | 763 | | | | | | | |
| 153 | | OBS | 0072 | -0056 | 34825 | 2801 | | | 14477 | 747 | | | | | | | |
| | | STD | 0075 | -0036 | 3485 | 2802 | 0000965 | 0043 | 14487 | 743 | | | | | | | |
| 153 | | OBS | 0095 | 0059 | 34945 | 2805 | | | 14535 | 724 | | | | | | | |
| | | STD | 0100 | 0056 | 3495 | 2805 | 0000735 | 0045 | 14534 | 726 | | | | | | | |
| | | STD | 0125 | 0039 | 3494 | 2806 | 0000660 | 0047 | 14531 | 736 | | | | | | | |
| 153 | | OBS | 0143 | 0022 | 34940 | 2807 | | | 14526 | 745 | | | | | | | |
| | | STD | 0150 | 0014 | 3494 | 2807 | 0000554 | 0048 | 14523 | 748 | | | | | | | |
| 153 | | OBS | T0186 | -0035 | 34921 | 2808 | | | 14507 | 761 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SPL'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 | |
| 311165 | | EW | 75291N | 042258E | 284 | 52 | 04 | 13 | 210 | 1967 | 089 | 0279 | 03 | 23 | 4 | 61 | 7 | 6 | 0086 | |
| WATER | | WIND | | BARO- METER (mb) | AIR TEMP °C | | WIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | | | | |
| | | | | 11 | 513 | 469 | 038 | 048 | 5 | | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CASE NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | Σ Δ ρ DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₂ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SIO ₂ -Si μg-at/l | pH | S C C | | | |
| | | STD | 0000 | 0311 | 3420 | 2726 | 0008244 | 0000 | 14620 | 759 | | | | | | | | | | |
| | 210 | OBS | 0000 | 0311 | 34196 | 2726 | | | 14620 | 755 | | | | | | | | | | |
| | 210 | OBS | 0005 | 0310 | 34196 | 2726 | | | 14620 | 756 | | | | | | | | | | |
| | | STD | 0010 | 0311 | 3420 | 2726 | 0008220 | 0008 | 14622 | 755 | | | | | | | | | | |
| | 210 | OBS | 0010 | 0311 | 3420 | 2726 | | | 14622 | 755 | | | | | | | | | | |
| | | STD | 0020 | 0313 | 3420 | 2726 | 000814 | 0016 | 14624 | 755 | | | | | | | | | | |
| | 210 | OBS | 0025 | 0314 | 34206 | 2726 | | | 14625 | 755 | | | | | | | | | | |
| | | STD | 0030 | 0188 | 3435 | 2748 | 0006104 | 0024 | 14573 | 767 | | | | | | | | | | |
| | 210 | OBS | 0048 | -0100 | 34726 | 2795 | | | 14451 | 791 | | | | | | | | | | |
| | | STD | 0050 | -0047 | 3474 | 2796 | 0001552 | 0031 | 14455 | 767 | | | | | | | | | | |
| | 210 | OBS | 0073 | -0067 | 34833 | 2802 | | | 14472 | 766 | | | | | | | | | | |
| | | STD | 0075 | -0064 | 3484 | 2803 | 0000915 | 0034 | 14474 | 767 | | | | | | | | | | |
| | 210 | OBS | 0097 | -0036 | 34874 | 2805 | | | 14470 | 757 | | | | | | | | | | |
| | | STD | 0100 | -0036 | 3485 | 2805 | 0000726 | 0036 | 14491 | 757 | | | | | | | | | | |
| | | STD | 0125 | -0033 | 3490 | 2806 | 0000591 | 0038 | 14497 | 759 | | | | | | | | | | |
| | 210 | OBS | 0146 | -0030 | 34906 | 2807 | | | 14502 | 760 | | | | | | | | | | |
| | | STD | 0150 | -0134 | 3491 | 2807 | 0000507 | 0039 | 14501 | 760 | | | | | | | | | | |
| | 210 | OBS | T0195 | -0075 | 34922 | 2810 | | | 14490 | 755 | | | | | | | | | | |
| | | STD | 0200 | -0174 | 3492 | 2810 | 0000182 | 0041 | 14469 | 755 | | | | | | | | | | |
| | | STD | 0250 | -0115 | 3495 | 2814 | -000016* | 0041 | 14461 | 717 | | | | | | | | | | |
| | 210 | OBS | T0266 | -0126 | 34954 | 2814 | | | 14474 | 697 | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SPL'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 | |
| 311165 | | EW | 75065N | 044270E | 284 | 52 | 07 | 14 | 013 | 1967 | 085 | 0274 | 03 | 1 | 3 | 54 | 6 | 8 | 0087 | |
| WATER | | WIND | | BARO- METER (mb) | AIR TEMP °C | | WIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | | | | |
| | | | | 11 | 524 | 935 | 045 | 034 | 8 | | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CASE NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-10 ³ | Σ Δ ρ DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₂ -P μg-at/l | TOTAL-P μg-at/l | NO ₂ -N μg-at/l | NO ₃ -N μg-at/l | SIO ₂ -Si μg-at/l | pH | S C C | | | |
| | | STD | 0000 | 0511 | 3460 | 2777 | 0007198 | 0000 | 14719 | 716 | | | | | | | | | | |
| | 014 | OBS | 0000 | 0511 | 3460 | 2757 | | | 14709 | 716 | | | | | | | | | | |
| | 014 | OBS | 0006 | 0511 | 34604 | 2757 | | | 14710 | 716 | | | | | | | | | | |
| | | STD | 0010 | 0512 | 3460 | 2756 | 0007252 | 0007 | 14712 | 716 | | | | | | | | | | |
| | 014 | OBS | 0010 | 0512 | 34595 | 2756 | | | 14711 | 716 | | | | | | | | | | |
| | | STD | 0020 | 0516 | 3460 | 2756 | 0007184 | 0014 | 14711 | 714 | | | | | | | | | | |
| | 014 | OBS | 0026 | 0521 | 3462 | 2747 | | | 14715 | 714 | | | | | | | | | | |
| | | STD | 0030 | 0460 | 3463 | 2757 | 0005975 | 0021 | 14694 | 714 | | | | | | | | | | |
| | | STD | 0050 | 0227 | 3471 | 2750 | 0006204 | 0029 | 14672 | 714 | | | | | | | | | | |
| | 14 | OBS | 0050 | 0229 | 34714 | 2740 | | | 14672 | 714 | | | | | | | | | | |
| | | STD | 0075 | 0107 | 3491 | 2749 | 0001252 | 0034 | 14592 | 746 | | | | | | | | | | |
| | 14 | OBS | 0075 | 0107 | 34911 | 2749 | | | 14593 | 746 | | | | | | | | | | |
| | | STD | 0110 | 0024 | 3490 | 2803 | 0005922 | 0037 | 14599 | 752 | | | | | | | | | | |
| | 14 | OBS | 0130 | 0024 | 34695 | 2803 | | | 14599 | 745 | | | | | | | | | | |
| | | STD | 0125 | -0123 | 3490 | 2805 | 0000718 | 0039 | 14592 | 762 | | | | | | | | | | |
| | | STD | 0150 | -0057 | 3489 | 2807 | 0000542 | 004 | 14459 | 761 | | | | | | | | | | |
| | 14 | OBS | 0151 | -0060 | 34699 | 2807 | | | 14459 | 761 | | | | | | | | | | |
| | | STD | 0200 | -0174 | 3492 | 2807 | 0000507 | 0042 | 14461 | 767 | | | | | | | | | | |
| | 14 | OBS | T0266 | -0174 | 34894 | 2809 | | | 14461 | 767 | | | | | | | | | | |
| | | STD | 0250 | -0115 | 3495 | 2812 | -000016* | 0045 | 14461 | 766 | | | | | | | | | | |
| | 14 | OBS | T0271 | -0116 | 34950 | 2814 | | | 14464 | 696 | | | | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INCLIN | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | NODC STATION NUMBER | | | |
|---------------------------|-----------------|--------------|------------------|-------------------|-----------------|--------------------|---------------|-----------------------|----------------------|-------------------------|-------------|---------------|-------------------|-----------------------|--------------------------------|----------------------|---------|-------------------------|----------------------|----------------|---------------------------|---|--|------|
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT PER | SEA | | | | | | |
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT PER | SEA | | | | | | |
| 311165 | | EW | 74530N | 046180E | | 284 | 46 | 09 | 14 | 047 | 1967 | | 087 | | 0275 | 02 | 07 | 3 | | 50 | 6 | 8 | | 0088 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO- METER (mbs) | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | | 06 | 27 | 06 | S18 | 946 | 031 | 023 | 7 | 10 | | | | | | | | | | |

| MESSAGE TIME HR 1/10 | CAS 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 | S C C |
|----------------------------|------------|--------------|-----------|-------|-------|---------|--|---------------------------------------|-------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----|-------------|
| | | STD | 0000 | 0537 | 3474 | 2745 | 0006427 | 0000 | 14722 | 710 | | | | | | | |
| 047 | | OBS | 0000 | 0537 | 34741 | 2745 | | | 14722 | 710 | | | | | | | |
| 047 | | OBS | 0006 | 0537 | 34746 | 2745 | | | 14723 | 714 | | | | | | | |
| | | STD | 0010 | 0537 | 3474 | 2745 | 0006417 | 0006 | 14724 | 724 | | | | | | | |
| 047 | | OBS | 0010 | 0537 | 34744 | 2745 | | | 14724 | 724 | | | | | | | |
| | | STD | 0020 | 0538 | 3474 | 2745 | 0006445 | 0013 | 14726 | 719 | | | | | | | |
| 047 | | OBS | 0025 | 0538 | 34742 | 2745 | | | 14726 | 718 | | | | | | | |
| | | STD | 0030 | 0537 | 3474 | 2745 | 0006445 | 0019 | 14727 | 719 | | | | | | | |
| | | STD | 0050 | 0531 | 3475 | 2746 | 0006369 | 0032 | 14728 | 720 | | | | | | | |
| 047 | | OBS | 0050 | 0531 | 34748 | 2746 | | | 14728 | 720 | | | | | | | |
| | | STD | 0075 | 0228 | 3486 | 2786 | 0002558 | 0043 | 14605 | 716 | | | | | | | |
| 047 | | OBS | 0076 | 0220 | 34868 | 2787 | | | 14602 | 716 | | | | | | | |
| | | STD | 0100 | 0147 | 3489 | 2795 | 0001750 | 0049 | 14574 | 729 | | | | | | | |
| 047 | | OBS | 0101 | 0144 | 34895 | 2795 | | | 14573 | 729 | | | | | | | |
| | | STD | 0125 | 0102 | 3490 | 2798 | 0001372 | 0053 | 14558 | 731 | | | | | | | |
| | | STD | 0150 | 0062 | 3490 | 2801 | 0001120 | 0056 | 14545 | 734 | | | | | | | |
| 047 | | OBS | 0152 | 0059 | 34905 | 2802 | | | 14544 | 734 | | | | | | | |
| | | STD | 0200 | -0004 | 3491 | 2806 | 0000662 | 0060 | 14525 | 708 | | | | | | | |
| 047 | | OBS | T0246 | -0048 | 34910 | 2808 | | | 14510 | 712 | | | | | | | |

| REFERENCE CTRY CODE | SHIP ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INCLIN | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES | NODC STATION NUMBER | | | |
|---------------------------|-----------------|--------------|------------------|-------------------|-----------------|--------------------|---------------|-----------------------|----------------------|-------------------------|-------------|---------------|-------------------|-----------------------|--------------------------------|----------------------|---------|-------------------------|----------------------|----------------|---------------------------|---|--|------|
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT PER | SEA | | | | | | |
| | | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT PER | SEA | | | | | | |
| 311165 | | EW | 74390N | 048000E | | 284 | 48 | 09 | 14 | 079 | 1967 | | 086 | | 0256 | 02 | 02 | 3 | | 85 | 6 | 7 | | 0089 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO- METER (mbs) | DRY BULB | WET BULB | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | | 05 | 27 | 01 | S15 | 955 | 028 | 011 | 7 | 10 | | | | | | | | | | |

| MESSAGE TIME HR 1/10 | CAS 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 | S C C |
|----------------------------|------------|--------------|-----------|-------|-------|---------|--|---------------------------------------|-------------------|---------------------|---------------------------------|----------------------|---------------------------------|---------------------------------|-----------------------------------|----|-------------|
| | | STD | 0000 | 0515 | 3468 | 2742 | 0006657 | 0000 | 14712 | 710 | | | | | | | |
| | | OBS | 0000 | 0515 | 34677 | 2742 | | | 14712 | 710 | | | | | | | |
| 079 | | OBS | 0006 | 0502 | 34672 | 2743 | | | 14708 | 742 | | | | | | | |
| | | STD | 0010 | 0516 | 3467 | 2742 | 0006711 | 0007 | 14714 | 716 | | | | | | | |
| 079 | | OBS | 0010 | 0516 | 34673 | 2742 | | | 14714 | 716 | | | | | | | |
| | | STD | 0020 | 0517 | 3466 | 2742 | 0006677 | 0013 | 14716 | 717 | | | | | | | |
| 079 | | OBS | 0027 | 0517 | 34682 | 2742 | | | 14717 | 718 | | | | | | | |
| | | STD | 0030 | 0512 | 3468 | 2743 | 0006615 | 0020 | 14716 | 719 | | | | | | | |
| | | STD | 0050 | 0478 | 3469 | 2748 | 0006200 | 0033 | 14705 | 727 | | | | | | | |
| 079 | | OBS | 0052 | 0475 | 34693 | 2748 | | | 14704 | 728 | | | | | | | |
| | | STD | 0075 | 0103 | 3487 | 2796 | 0001593 | 0043 | 14550 | 739 | | | | | | | |
| 079 | | OBS | 0079 | 0066 | 34879 | 2799 | | | 14535 | 742 | | | | | | | |
| | | STD | 0100 | 0054 | 3486 | 2798 | 0001399 | 0046 | 14532 | 760 | | | | | | | |
| 079 | | OBS | 0105 | 0051 | 34850 | 2798 | | | 14532 | 763 | | | | | | | |
| | | STD | 0125 | 0037 | 3488 | 2801 | 0001119 | 0049 | 14529 | 757 | | | | | | | |
| | | STD | 0150 | 0018 | 3491 | 2804 | 0000784 | 0052 | 14525 | 750 | | | | | | | |
| 079 | | OBS | 0158 | 0011 | 34915 | 2805 | | | 14523 | 748 | | | | | | | |
| | | STD | 0200 | -0031 | 3492 | 2808 | 0000451 | 0055 | 14511 | 740 | | | | | | | |
| 079 | | OBS | T0212 | -0042 | 34920 | 2808 | | | 14508 | 732 | | | | | | | |
| 079 | | OBS | T0236 | -0061 | 34921 | 2809 | | | 14503 | 708 | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | ROSE 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 | | |
| | | | | | | 10" | 1" | MO | DAY | HR.1/10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | SEA | | TYPE | AMT | | |
| 311165 | | EW | 72575N | 051370E | | 283 | 05 | 14 | 27 | 1967 | | 096 | | 0037 | 01 | 01 | 4 | | 73 | 7 | 8 | | 0093 | |
| | | | | | | 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 | | | | | | | | | | | | |
| | | | | | | | | 01 | S21 | 979 | 010 | 006 | 6 | 00 | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t ? | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | 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 | CTRY CODE | | | | | | | |
| | | STD | 0000 | 0596 | 3380 | 2663 | 0014182 | 0000 | 14733 | 702 | | | | | | | | | | | | | | |
| | 228 | OBS | 0000 | 0596 | 33797 | 2663 | | | 14733 | 702 | | | | | | | | | | | | | | |
| | 228 | OBS | 0006 | 0594 | 33799 | 2663 | | | 14733 | 704 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0596 | 3374 | 2663 | 0014219 | 0014 | 14735 | 703 | | | | | | | | | | | | | | |
| | 228 | OBS | 0011 | 0596 | 33792 | 2663 | | | 14735 | 703 | | | | | | | | | | | | | | |
| | | STD | 0020 | 0599 | 3435 | 2706 | 0010105 | 0026 | 14745 | 703 | | | | | | | | | | | | | | |
| | 228 | OBS | 0027 | 0601 | 34644 | 2729 | | | 14751 | 703 | | | | | | | | | | | | | | |
| | | STD | 0030 | 0526 | 3465 | 2739 | 0007020 | 0035 | 14721 | 727 | | | | | | | | | | | | | | |
| | | STD | 0050 | 0137 | 3470 | 2780 | 0003102 | 0045 | 14559 | 819 | | | | | | | | | | | | | | |
| | 228 | OBS | 0054 | 0083 | 34709 | 2784 | | | 14536 | 823 | | | | | | | | | | | | | | |
| | | STD | 0075 | -0073 | 3474 | 2774 | 0001259 | 0050 | 14469 | 770 | | | | | | | | | | | | | | |
| | 228 | OBS | T0083 | -0075 | 34835 | 2803 | | | 14476 | 716 | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | ROSE 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 | | |
| | | | | | | 10" | 1" | MO | DAY | HR.1/10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | SEA | | TYPE | AMT | | |
| 311165 | | EW | 73110N | 050080E | | 283 | 30 | 09 | 15 | 025 | 1967 | | 095 | | 0238 | 02 | 36 | 7 | | | 5 | 8 | | 0094 |
| | | | | | | 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 | | | | | | | | | | | | |
| | | | | | | | | 36 | S22 | 996 | 014 | 000 | 8 | 09 | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t ? | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | 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 | CTRY CODE | | | | | | | |
| | | STD | 0000 | 0668 | 3470 | 2725 | 0008339 | 0000 | 14774 | 694 | | | | | | | | | | | | | | |
| | | OBS | 0000 | 0668 | 34698 | 2725 | | | 14774 | 694 | | | | | | | | | | | | | | |
| | 026 | OBS | 0006 | 0667 | 34694 | 2724 | | | 14775 | 689 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0669 | 3470 | 2724 | 0008377 | 0008 | 14776 | 691 | | | | | | | | | | | | | | |
| | 026 | OBS | 0011 | 0669 | 34696 | 2724 | | | 14776 | 691 | | | | | | | | | | | | | | |
| | | STD | 0020 | 0669 | 3469 | 2724 | 0008413 | 0017 | 14778 | 691 | | | | | | | | | | | | | | |
| | 026 | OBS | 0025 | 0669 | 34692 | 2724 | | | 14778 | 691 | | | | | | | | | | | | | | |
| | | STD | 0030 | 0654 | 3470 | 2727 | 0008200 | 0025 | 14773 | 691 | | | | | | | | | | | | | | |
| | | STD | 0050 | 0591 | 3472 | 2736 | 0007289 | 0041 | 14752 | 689 | | | | | | | | | | | | | | |
| | 026 | OBS | 0052 | 0585 | 34722 | 2737 | | | 14750 | 689 | | | | | | | | | | | | | | |
| | | STD | 0075 | 0319 | 3484 | 2776 | 0005515 | 0054 | 14644 | 699 | | | | | | | | | | | | | | |
| | 026 | OBS | 0078 | 0299 | 34848 | 2779 | | | 14636 | 700 | | | | | | | | | | | | | | |
| | | STD | 0100 | 0279 | 3491 | 2785 | 0002648 | 0062 | 14632 | 702 | | | | | | | | | | | | | | |
| | 026 | OBS | 0104 | 0274 | 34913 | 2786 | | | 14631 | 703 | | | | | | | | | | | | | | |
| | | STD | 0125 | 0221 | 3491 | 2791 | 0002152 | 0068 | 14611 | 709 | | | | | | | | | | | | | | |
| | | STD | 0150 | 0167 | 3491 | 2795 | 0001750 | 0073 | 14592 | 716 | | | | | | | | | | | | | | |
| | 026 | OBS | 0158 | 0151 | 34912 | 2796 | | | 14586 | 718 | | | | | | | | | | | | | | |
| | | STD | 0200 | 0083 | 3498 | 2806 | 0000658 | 0079 | 14565 | 730 | | | | | | | | | | | | | | |
| | 026 | OBS | T0206 | 0075 | 34998 | 2808 | | | 14561 | 730 | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | ROSE 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 | | |
| | | | | | | 10" | 1" | MO | DAY | HR.1/10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | SEA | | TYPE | AMT | | |
| 311165 | | EW | 73228N | 048363E | | 284 | 38 | 09 | 15 | 068 | 1967 | | 094 | | 0265 | 02 | 35 | 9 | | | 18 | 6 | 6 | 0095 |
| | | | | | | 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 | | | | | | | | | | | | |
| | | | | | | | | 01 | S24 | 015 | 017 | 009 | 5 | 09 | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (M) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_t ? | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | 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 | CTRY CODE | | | | | | | |
| | | STD | 0000 | 0610 | 3472 | 2734 | 0007448 | 0000 | 14751 | 703 | | | | | | | | | | | | | | |
| | 069 | OBS | 0000 | 0610 | 34720 | 2734 | | | 14751 | 703 | | | | | | | | | | | | | | |
| | | OBS | 0005 | 0611 | 34719 | 2734 | | | 14752 | 710 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0612 | 3472 | 2734 | 0007457 | 0007 | 14754 | 714 | | | | | | | | | | | | | | |
| | 069 | OBS | 0010 | 0612 | 34724 | 2734 | | | 14754 | 714 | | | | | | | | | | | | | | |
| | | STD | 0020 | 0612 | 3473 | 2734 | 0007463 | 0015 | 14755 | 701 | | | | | | | | | | | | | | |
| | 071 | OBS | 0024 | 0612 | 34726 | 2734 | | | 14756 | 697 | | | | | | | | | | | | | | |
| | | STD | 0030 | 0518 | 3476 | 2749 | 0006106 | 0022 | 14719 | 697 | | | | | | | | | | | | | | |
| | 071 | OBS | 0045 | 0322 | 34831 | 2775 | | | 14641 | 696 | | | | | | | | | | | | | | |
| | | STD | 0050 | 0316 | 3483 | 2776 | 0003513 | 0031 | 14639 | 697 | | | | | | | | | | | | | | |
| | 073 | OBS | 0073 | 0264 | 34870 | 2784 | | | 14621 | 696 | | | | | | | | | | | | | | |
| | | STD | 0075 | 0263 | 3488 | 2784 | 0002719 | 0039 | 14621 | 697 | | | | | | | | | | | | | | |
| | 073 | OBS | 0098 | 0241 | 34925 | 2790 | | | 14616 | 704 | | | | | | | | | | | | | | |
| | | STD | 0100 | 0237 | 3493 | 2790 | 0002178 | 0045 | 14614 | 704 | | | | | | | | | | | | | | |
| | | STD | 0125 | 0163 | 3492 | 2794 | 0001777 | 0050 | 14595 | 708 | | | | | | | | | | | | | | |
| | 073 | OBS | 0149 | 0131 | 34921 | 2798 | | | 14576 | 712 | | | | | | | | | | | | | | |
| | | STD | 0150 | 0129 | 3492 | 2798 | 0001413 | 0054 | 14575 | 713 | | | | | | | | | | | | | | |
| | | STD | 0200 | 0015 | 3492 | 2805 | 0000693 | 0059 | 14532 | 737 | | | | | | | | | | | | | | |
| | 073 | OBS | T0221 | -0034 | 34920 | 2808 | | | 14513 | 747 | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDEX | 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 |
|--------------|------------|-----------|------------------|-------------------|----------------|-------------------|-----------------------|--------------|--------|------|---------------|--------------------|-----------------------|--------------------------------|----------------------|-----|-----|----------------------|----------------|------|---------------------------|
| CITY CODE | ID. NO. | | | | | | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 73380N | 046580E | 284 | 36 09 15 | 17U | 1967 | | 093 | | J274 | 02 | 15 | 0 | | | 5 | 8 | 0096 | |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | COLOR | | DIR. | | METER | | DRY | | WET | | | | | | | | | | | |
| | | 36 | | 02 | | 521 | | 017 | | -001 | | 5 | | 10 | | | | | | | |

| MESSAGE TIME HR./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 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 | 0585 | 3475 | 2740 | 0006921 | 0000 | 14742 | 714 | | | | | | | |
| 170 | | OBS | 0000 | 0585 | 3475 | 2740 | | | 14742 | 714 | | | | | | | |
| 170 | | OBS | 0005 | 0585 | 3474 | 2739 | | | 14742 | 705 | | | | | | | |
| 170 | | OBS | 0009 | 0585 | 3474 | 2737 | | | 14743 | 705 | | | | | | | |
| | | STD | 0010 | 0585 | 3475 | 2734 | 0006943 | 0007 | 14743 | 705 | | | | | | | |
| | | STD | 0020 | 0586 | 3475 | 2734 | 0006972 | 0014 | 14745 | 704 | | | | | | | |
| 170 | | OBS | 0024 | 0586 | 3474 | 2739 | | | 14746 | 705 | | | | | | | |
| | | STD | 0030 | 0585 | 3475 | 2737 | 0006992 | 0021 | 14746 | 705 | | | | | | | |
| 170 | | OBS | 0048 | 0582 | 3474 | 2739 | | | 14748 | 705 | | | | | | | |
| | | STD | 0050 | 0546 | 3476 | 2745 | 0006452 | 0034 | 14734 | 705 | | | | | | | |
| 170 | | OBS | 0072 | 0262 | 3492 | 2783 | | | 145.1 | 705 | | | | | | | |
| | | STD | 0075 | 0252 | 3495 | 2789 | 0002249 | 0045 | 14617 | 712 | | | | | | | |
| 170 | | OBS | 0096 | 0185 | 3494 | 2796 | | | 14591 | 760 | | | | | | | |
| | | STD | 0100 | 0160 | 3494 | 2797 | 0001524 | 0050 | 14584 | 760 | | | | | | | |
| | | STD | 0125 | 0078 | 3493 | 2802 | 0000987 | 0053 | 14548 | 754 | | | | | | | |
| 170 | | OBS | 0145 | 0022 | 3492 | 2805 | | | 14576 | 752 | | | | | | | |
| | | STD | 0150 | 0013 | 3492 | 2805 | 0001680 | 0055 | 14523 | 754 | | | | | | | |
| 170 | | OBS | 10192 | -0049 | 3491 | 2806 | | | 14531 | 755 | | | | | | | |
| | | STD | 10200 | -0058 | 3492 | 2811 | 0000348 | 0058 | 14498 | 755 | | | | | | | |
| 170 | | OBS | 10229 | -0056 | 3493 | 2811 | | | 14490 | 749 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDEX | 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 |
|--------------|------------|-----------|------------------|-------------------|----------------|-------------------|-----------------------|--------------|--------|------|---------------|--------------------|-----------------------|--------------------------------|----------------------|-----|-----|----------------------|----------------|------|---------------------------|
| CITY CODE | ID. NO. | | | | | | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 735 JUN | 046525E | 284 | 35 07 15 | 17U | 1967 | | 092 | | 0325 | 03 | 02 | 0 | | | 7 | 5 | 8 | 0097 |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | COLOR | | DIR. | | METER | | DRY | | WET | | | | | | | | | | | |
| | | 36 | | 014 | | 154 | | 017 | | 007 | | 5 | | 10 | | | | | | | |

| MESSAGE TIME HR./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 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 | 0541 | 3473 | 2744 | 0006532 | 0000 | 14723 | 731 | | | | | | | |
| | | OBS | 0005 | 0541 | 3473 | 2744 | | | 14723 | 731 | | | | | | | |
| 209 | | OBS | 0005 | 0542 | 3473 | 2744 | | | 14725 | 714 | | | | | | | |
| | | STD | 0010 | 0542 | 3474 | 2744 | 0006534 | 0007 | 14726 | 714 | | | | | | | |
| 209 | | OBS | 0010 | 0542 | 3473 | 2744 | | | 14726 | 714 | | | | | | | |
| | | STD | 0020 | 0543 | 3474 | 2744 | 0006556 | 0011 | 14728 | 705 | | | | | | | |
| 209 | | OBS | 0023 | 0543 | 3473 | 2744 | | | 14728 | 705 | | | | | | | |
| | | STD | 0030 | 0435 | 3477 | 2762 | 0014826 | 0019 | 14675 | 744 | | | | | | | |
| 209 | | OBS | 0046 | 0151 | 3483 | 2784 | | | 14566 | 805 | | | | | | | |
| | | STD | 0050 | 0147 | 3484 | 2784 | 0001747 | 0025 | 14544 | 801 | | | | | | | |
| 209 | | OBS | 0070 | -0072 | 3487 | 2806 | | | 14470 | 786 | | | | | | | |
| | | STD | 0075 | -0076 | 3487 | 2805 | 0000512 | 0028 | 14469 | 782 | | | | | | | |
| 209 | | OBS | 0097 | -0071 | 3488 | 2812 | | | 14465 | 774 | | | | | | | |
| | | STD | 0100 | -0073 | 3488 | 2812 | 0000488 | 0030 | 14465 | 775 | | | | | | | |
| | | STD | 0125 | -0072 | 3487 | 2806 | 0000594 | 0031 | 14465 | 777 | | | | | | | |
| 209 | | OBS | 1142 | -0106 | 3488 | 2808 | | | 14466 | 776 | | | | | | | |
| | | STD | 1150 | -0106 | 3487 | 2807 | 000034 | 0032 | 14467 | 775 | | | | | | | |
| 209 | | OBS | 11141 | -0111 | 3491 | 2812 | | | 14472 | 755 | | | | | | | |
| | | STD | 1200 | -0113 | 3492 | 2811 | 0000667 | 0035 | 14473 | 745 | | | | | | | |
| | | STD | 1250 | -0107 | 3495 | 2814 | -0000258 | 0032 | 14471 | 714 | | | | | | | |
| 209 | | OBS | 10260 | -0150 | 3497 | 2817 | | | 14470 | 705 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDEX | 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 | |
| 311 | 165 | EW | 74056N | 043343E | | 284 | 43 | 09 | 16 | 010 | 1967 | 091 | 0339 | 03 | 01 | 5 | | | | 5 | 8 | | 0098 |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | | | | | | | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | DRY BULB | | WET BULB | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | |
| | | | | | | | | 02 | | 512 | | 172 | | 016 | | 003 | | 8 | | 10 | | | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S C C |
|----------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|---|--|---|---|---|----|-------------|
| | | STD | 0000 | 0441 | 3464 | 2748 | 0006139 | 0000 | 14581 | 787 | | | | | | | |
| 010 | | OBS | 0000 | 0441 | 34640 | 2748 | | | 14581 | 787 | | | | | | | |
| 010 | | OBS | 0006 | 0441 | 34637 | 2748 | | | 14682 | 736 | | | | | | | |
| | | STD | 0010 | 0441 | 3464 | 2747 | 0006187 | 0006 | 14683 | 733 | | | | | | | |
| 010 | | OBS | 0011 | 0441 | 34635 | 2747 | | | 14683 | 732 | | | | | | | |
| | | STD | 0020 | 0442 | 3464 | 2748 | 0006166 | 0012 | 14685 | 733 | | | | | | | |
| 010 | | OBS | 0027 | 0442 | 34644 | 2748 | | | 14686 | 733 | | | | | | | |
| | | STD | 0030 | 0376 | 3468 | 2758 | 0005217 | 0018 | 14559 | 744 | | | | | | | |
| | | STD | 0050 | 0044 | 3486 | 2799 | 0001305 | 0025 | 14519 | 789 | | | | | | | |
| 010 | | OBS | 0054 | 0001 | 34875 | 2803 | | | 14501 | 793 | | | | | | | |
| | | STD | 0075 | -0068 | 3487 | 2805 | 0006669 | 0027 | 14472 | 776 | | | | | | | |
| 010 | | OBS | 0082 | -0083 | 34868 | 2606 | | | 14467 | 772 | | | | | | | |
| | | STD | 0100 | -0099 | 3467 | 2807 | 0000543 | 0029 | 14462 | 772 | | | | | | | |
| 010 | | OBS | 0109 | -0105 | 34870 | 2807 | | | 14461 | 765 | | | | | | | |
| | | STD | 0125 | -0114 | 3487 | 2807 | 0000485 | 0030 | 14459 | 732 | | | | | | | |
| | | STD | 0150 | -0123 | 3487 | 2807 | 0000458 | 0031 | 14459 | 697 | | | | | | | |
| 010 | | OBS | 0165 | -0124 | 34864 | 2807 | | | 14461 | 690 | | | | | | | |
| | | STD | 0200 | -0108 | 3490 | 2809 | 0000240 | 0033 | 14475 | 735 | | | | | | | |
| 010 | | OBS | T0221 | -0105 | 34923 | 2811 | | | 14480 | 750 | | | | | | | |
| | | STD | 0250 | 0108 | 3494 | 2813 | -0000080 | 0033 | 14484 | 734 | | | | | | | |
| | | STD | 0300 | -0132 | 3496 | 2815 | -0000349 | 0032 | 14481 | 706 | | | | | | | |
| 010 | | OBS | T0329 | -0153 | 34966 | 2816 | | | 14474 | 690 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDEX | 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 | | | |
| 311 | 165 | EW | 74185N | 042080E | | 284 | 42 | 09 | 16 | 052 | 1967 | 090 | 0248 | 02 | 36 | 5 | | | | 6 | 7 | | 0099 | | |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | | | | | | | | | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | DRY BULB | | WET BULB | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | | | 06 | | 32 | | 30 | | S13 | | 197 | | 016 | | 002 | | 8 | | 10 | |

| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S C C |
|----------------------------|-------------|--------------|-----------|-------|-------|---------|---|---|-------------------|---------------------|---|--|---|---|---|----|-------------|
| | | STD | 0000 | 0379 | 3423 | 2722 | 0008615 | 0000 | 14649 | 744 | | | | | | | |
| 052 | | OBS | 0000 | 0379 | 34229 | 2722 | | | 14649 | 744 | | | | | | | |
| 052 | | OBS | 0005 | 0381 | 34218 | 2721 | | | 14651 | 750 | | | | | | | |
| | | STD | 0010 | 0379 | 3423 | 2722 | 0008601 | 0009 | 14651 | 754 | | | | | | | |
| 052 | | OBS | 0010 | 0379 | 34232 | 2722 | | | 14651 | 754 | | | | | | | |
| | | STD | 0020 | 0380 | 3425 | 2723 | 0008479 | 0017 | 14653 | 753 | | | | | | | |
| 052 | | OBS | 0026 | 0380 | 34260 | 2724 | | | 14654 | 752 | | | | | | | |
| | | STD | 0030 | 0282 | 3438 | 2743 | 0006625 | 0025 | 14615 | 763 | | | | | | | |
| | | STD | 0050 | -0062 | 3477 | 2799 | 0001310 | 0033 | 14470 | 792 | | | | | | | |
| 052 | | OBS | 0052 | -0083 | 34614 | 2802 | | | 14461 | 793 | | | | | | | |
| | | STD | 0075 | -0145 | 3452 | 2804 | 0000763 | 0035 | 14436 | 772 | | | | | | | |
| 052 | | OBS | 0077 | -0147 | 34826 | 2805 | | | 14435 | 770 | | | | | | | |
| | | STD | 0100 | -0116 | 3486 | 2806 | 0000578 | 0037 | 14454 | 790 | | | | | | | |
| 052 | | OBS | 0103 | -0113 | 34860 | 2806 | | | 14456 | 791 | | | | | | | |
| | | STD | 0125 | -0110 | 3487 | 2807 | 0000464 | 0038 | 14461 | 786 | | | | | | | |
| | | STD | 0150 | -0105 | 3489 | 2808 | 0000357 | 0039 | 14468 | 775 | | | | | | | |
| 052 | | OBS | 0154 | -0105 | 34890 | 2809 | | | 14469 | 773 | | | | | | | |
| | | STD | 0200 | -0108 | 3492 | 2811 | 0000096 | 0040 | 14476 | 741 | | | | | | | |
| 052 | | OBS | T0205 | -0109 | 34930 | 2812 | | | 14476 | 731 | | | | | | | |
| 052 | | OBS | T0240 | -0127 | 34954 | 2814 | | | 14473 | 680 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INCHES | STATION TIME (GMT) | | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|------------|------------|-----------|----------------|-----------------|--------------|--------------------|-----------|-----------------|----------------------|------|--------------|------------|-----------------|-----------------------|-------------------|-----|---------|--------------|-------------|------|---------------------|-----|
| CTRY CODE | ID. NO. | | | | | 10° | 1° | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT PER | | SEA | TYPE | | AMT |
| 311165 | | EW | 73186N | 041140E | | 28 | 31 | 09 | 16 | 111 | 1967 | | 103 | 0301 | 03 | 01 | 3 | | 07 | | 0100 | |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | |
| COLOP CODE | TRANS. (M) | DIR. | SPEED OR FORCE | | DRY RULR | WET RULR | | | | | | | | | | | | | | | | |
| 06 | 27 | 31 | 513 | 206 | 044 | 029 | 8 | 10 | | | | | | | | | | | | | | |

| MESSNGR TIME HR./10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S ΔD 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 | 0513 | 3458 | 2735 | 0007370 | 0000 | 14710 | 720 | | | | | | | |
| 111 | | OBS | 0000 | 0513 | 3457.9 | 2735 | | | 14710 | 720 | | | | | | | |
| 111 | | OBS | 0004 | 0515 | 3457.5 | 2734 | | | 14711 | 726 | | | | | | | |
| 111 | | OBS | 0007 | 0514 | 3457.2 | 2734 | | | 14712 | 726 | | | | | | | |
| | | STD | 0010 | 0514 | 3457 | 2734 | 0007446 | 0007 | 14712 | 727 | | | | | | | |
| | | STD | 0020 | 0513 | 3458 | 2734 | 0007444 | 0015 | 14714 | 720 | | | | | | | |
| 111 | | OBS | 0023 | 0515 | 3457.6 | 2734 | | | 14715 | 716 | | | | | | | |
| | | STD | 0030 | 0516 | 3458 | 2735 | 0004564 | 0021 | 14624 | 773 | | | | | | | |
| 111 | | OBS | 0037 | -0042 | 3484.3 | 2801 | | | 14485 | 836 | | | | | | | |
| | | STD | 0044 | -0042 | 3484 | 2802 | 0001017 | 0026 | 14480 | 824 | | | | | | | |
| 111 | | OBS | 0047 | -0101 | 3486.2 | 2806 | | | 14456 | 772 | | | | | | | |
| | | STD | 0055 | -0103 | 3486 | 2806 | 0000574 | 0028 | 14456 | 773 | | | | | | | |
| 111 | | OBS | 0055 | -0103 | 3486.4 | 2807 | | | 14457 | 774 | | | | | | | |
| | | STD | 0100 | -0111 | 3487 | 2807 | 0000440 | 0030 | 14456 | 775 | | | | | | | |
| | | STD | 0115 | -0121 | 3487 | 2807 | 0000444 | 0031 | 14456 | 779 | | | | | | | |
| 111 | | OBS | 0142 | -0122 | 3487.7 | 2808 | | | 14458 | 782 | | | | | | | |
| | | STD | 0150 | -0117 | 3489 | 2807 | 0000297 | 0032 | 14462 | 774 | | | | | | | |
| 111 | | OBS | 7028.9 | -0103 | 3494.8 | 2812 | | | 14476 | 741 | | | | | | | |
| | | STD | 7030 | -0103 | 3494 | 2811 | -000044 | 0032 | 14478 | 733 | | | | | | | |
| | | STD | 7030 | -0122 | 3497 | 2816 | -0000367 | 0031 | 14478 | 702 | | | | | | | |
| 111 | | OBS | 7028.4 | -0104 | 3498.1 | 2818 | | | 14469 | 692 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | DEPTH INCHES | STATION TIME (GMT) | | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|------------|------------|-----------|----------------|-----------------|--------------|--------------------|-----------|-----------------|----------------------|------|--------------|------------|-----------------|-----------------------|-------------------|-----|---------|--------------|-------------|------|---------------------|-----|
| CTRY CODE | ID. NO. | | | | | 10° | 1° | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT PER | | SEA | TYPE | | AMT |
| 311166 | | EW | 73186N | 041140E | | 28 | 31 | 09 | 16 | 111 | 1967 | | 103 | 0304 | 03 | 02 | 3 | | 08 | | 0101 | |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | |
| COLOP CODE | TRANS. (M) | DIR. | SPEED OR FORCE | | DRY RULR | WET RULR | | | | | | | | | | | | | | | | |
| 06 | 24 | 34 | 510 | 205 | 027 | 027 | 8 | 10 | | | | | | | | | | | | | | |

| MESSNGR TIME HR./10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | S ΔD 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 | 0487 | 3457 | 2735 | 0007374 | 0000 | 14694 | 720 | | | | | | | |
| 141 | | OBS | 0000 | 0487 | 3457.4 | 2735 | | | 14694 | 725 | | | | | | | |
| 141 | | OBS | 0004 | 0487 | 3457.4 | 2734 | | | 14701 | 738 | | | | | | | |
| 141 | | OBS | 0007 | 0487 | 3457.4 | 2734 | | | 14701 | 738 | | | | | | | |
| | | STD | 0010 | 048 | 3458 | 2734 | 0007366 | 0007 | 14702 | 737 | | | | | | | |
| | | STD | 0020 | 0487 | 3457.9 | 2734 | 0007377 | 0014 | 14703 | 730 | | | | | | | |
| 141 | | OBS | 0023 | 0487 | 3457.9 | 2734 | | | 14704 | 720 | | | | | | | |
| | | STD | 0030 | 0487 | 3458 | 2735 | 0000244 | 0014 | 14644 | 743 | | | | | | | |
| | | STD | 0044 | -0104 | 3486.5 | 2801 | 0001017 | 0021 | 14443 | 758 | | | | | | | |
| 141 | | OBS | 0047 | -0114 | 3487.1 | 2801 | | | 14443 | 758 | | | | | | | |
| | | STD | 0055 | -0102 | 3487.1 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0055 | -0103 | 3487.9 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 0100 | -0100 | 3487.4 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0100 | -0100 | 3487.4 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 0115 | -0100 | 3487.4 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0115 | -0100 | 3487.4 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 0130 | -0100 | 3487.4 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0130 | -0100 | 3487.4 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 0142 | -0100 | 3487.4 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0142 | -0100 | 3487.4 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 0150 | -0100 | 3487.4 | 2801 | 0000444 | 0016 | 14456 | 750 | | | | | | | |
| 141 | | OBS | 0150 | -0100 | 3487.4 | 2801 | | | 14456 | 750 | | | | | | | |
| | | STD | 7028.9 | -0104 | 3497.1 | 2811 | -0000444 | 0024 | 14474 | 642 | | | | | | | |
| 141 | | OBS | 7028.9 | -0104 | 3497.1 | 2811 | | | 14474 | 684 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | ORIG. INDEX | MARSSEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|-----------|---------|------------|--------------------|---------------------|-------------|----------------|----|--------------------|-----|-------------|------|--------------|-----------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|------|---------------------|------|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE |
| 311 | 165 | EW | 72502N | 044280E | | 284 | 24 | 09 | 16 | 178 | 1967 | 101 | 0306 | 03 | 01 | 5 | | 5 | 7 | | 0102 | | |
| | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mbs) | | DRY BULB | | WET BULB | | VIS CODE | | | | | | | |
| | | | | | | | | 02 | | 532 | | 197 | | 034 | | 017 | | 8 | | 10 | | | |

| MESSAGE TIME OF HR 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | TOTAL-P $\mu\text{g} - \text{dl/l}$ | NO ₂ -N $\mu\text{g} - \text{dl/l}$ | NO ₃ -N $\mu\text{g} - \text{dl/l}$ | SiO ₄ -Si $\mu\text{g} - \text{dl/l}$ | pH | S C C |
|-------------------------|-----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|--|-------------------------------------|--|--|--|----|-------|
| | | STD | 0000 | 0574 | 3469 | 2736 | 0007231 | 0000 | 14736 | 700 | | | | | | | |
| 178 | | OBS | 0000 | 0574 | 34691 | 2736 | | | 14736 | 700 | | | | | | | |
| 178 | | OBS | 0005 | 0572 | 34692 | 2737 | | | 14736 | 710 | | | | | | | |
| | | STD | 0010 | 0574 | 3469 | 2736 | 0007237 | 0007 | 14736 | 706 | | | | | | | |
| | | OBS | 0010 | 0574 | 34692 | 2736 | | | 14738 | 708 | | | | | | | |
| | | STD | 0020 | 0573 | 3470 | 2737 | 0007214 | 0014 | 14739 | 708 | | | | | | | |
| 176 | | OBS | 0027 | 0573 | 34698 | 2737 | | | 14740 | 708 | | | | | | | |
| | | STD | 0030 | 0552 | 3472 | 2744 | 0006565 | 0021 | 14725 | 707 | | | | | | | |
| | | STD | 0030 | 0336 | 3483 | 2774 | 0003726 | 0032 | 14647 | 697 | | | | | | | |
| 176 | | OBS | 0053 | 0318 | 34847 | 2777 | | | 14641 | 695 | | | | | | | |
| | | STD | 0075 | 0305 | 3493 | 2785 | 0002710 | 0040 | 14640 | 700 | | | | | | | |
| 175 | | OBS | 0080 | 0293 | 34945 | 2787 | | | 14636 | 704 | | | | | | | |
| | | STD | 0100 | 0206 | 3495 | 2795 | 0001739 | 0045 | 14601 | 740 | | | | | | | |
| 176 | | OBS | 0106 | 0174 | 34952 | 2797 | | | 14590 | 748 | | | | | | | |
| | | STD | 0125 | 0063 | 3452 | 2833 | 0000471 | 0044 | 14541 | 758 | | | | | | | |
| | | STD | 0150 | -0046 | 3408 | 2805 | 0000679 | 0051 | 14495 | 768 | | | | | | | |
| 176 | | OBS | 0157 | -0067 | 34676 | 2806 | | | 14486 | 770 | | | | | | | |
| | | STD | 0200 | -0093 | 3468 | 2807 | 0000471 | 0054 | 14482 | 774 | | | | | | | |
| 173 | | OBS | T0211 | -0098 | 34676 | 2807 | | | 14481 | 775 | | | | | | | |
| | | STD | 0250 | -0110 | 3490 | 2810 | 0000216 | 0055 | 14482 | 756 | | | | | | | |
| 178 | | OBS | T0296 | -0113 | 34754 | 2814 | | | 14490 | 714 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | ORIG. INDEX | MARSSEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|-----------|---------|------------|--------------------|---------------------|-------------|----------------|----|--------------------|-----|-------------|------|--------------|-----------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|------|---------------------|------|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | PER | SEA | | TYPE |
| 311 | 165 | EW | 72502N | 045240E | | 284 | 25 | 09 | 16 | 178 | 1967 | 100 | 0291 | 02 | 01 | 2 | | 5 | 7 | | 0103 | | |
| | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | VIS | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mbs) | | DRY BULB | | WET BULB | | VIS CODE | | | | | | | |
| | | | | | | | | 30 | | 502 | | 192 | | 036 | | 027 | | 8 | | 10 | | | |

| MESSAGE TIME OF HR 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{dl/l}$ | TOTAL-P $\mu\text{g} - \text{dl/l}$ | NO ₂ -N $\mu\text{g} - \text{dl/l}$ | NO ₃ -N $\mu\text{g} - \text{dl/l}$ | SiO ₄ -Si $\mu\text{g} - \text{dl/l}$ | pH | S C C |
|-------------------------|-----------|-----------|-----------|-------|-------|---------|--|---|----------------|---------------------|--|-------------------------------------|--|--|--|----|-------|
| | | STD | 0000 | 0674 | 3469 | 2723 | 0008499 | 0000 | 14776 | 692 | | | | | | | |
| 212 | | OBS | 0000 | 0674 | 34687 | 2723 | | | 14776 | 692 | | | | | | | |
| 212 | | OBS | 0005 | 0673 | 34687 | 2723 | | | 14777 | 693 | | | | | | | |
| | | STD | 0010 | 0674 | 3469 | 2723 | 0008470 | 0006 | 14776 | 692 | | | | | | | |
| | | OBS | 0010 | 0674 | 34693 | 2723 | | | 14776 | 692 | | | | | | | |
| | | STD | 0020 | 0675 | 3469 | 2723 | 0008502 | 0017 | 14780 | 691 | | | | | | | |
| 212 | | OBS | 0024 | 0675 | 34691 | 2723 | | | 14781 | 690 | | | | | | | |
| | | STD | 0030 | 0572 | 3473 | 2740 | 0006956 | 0025 | 14741 | 693 | | | | | | | |
| 212 | | OBS | 0040 | 0345 | 3454 | 2774 | | | 14651 | 702 | | | | | | | |
| | | STD | 0050 | 0343 | 3465 | 2775 | 0003641 | 0035 | 14651 | 702 | | | | | | | |
| 212 | | OBS | 0074 | 0277 | 34941 | 2788 | | | 14628 | 708 | | | | | | | |
| | | STD | 0075 | 0274 | 3494 | 2788 | 0003353 | 0043 | 14626 | 709 | | | | | | | |
| 211 | | OBS | 0088 | 0200 | 34543 | 2795 | | | 14598 | 702 | | | | | | | |
| | | STD | 0100 | 0189 | 3454 | 2795 | 0001683 | 0048 | 14594 | 735 | | | | | | | |
| | | STD | 0125 | 0075 | 3442 | 2802 | 0002046 | 0051 | 14547 | 761 | | | | | | | |
| 212 | | OBS | 0147 | 0065 | 34905 | 2805 | | | 14519 | 772 | | | | | | | |
| | | STD | 0150 | 0063 | 3441 | 2805 | 0001701 | 0053 | 14516 | 771 | | | | | | | |
| 212 | | OBS | T0193 | -0037 | 34927 | 2809 | | | 14508 | 755 | | | | | | | |
| | | STD | 0200 | -0039 | 3492 | 2809 | 0000326 | 0056 | 14507 | 754 | | | | | | | |
| | | STD | 0250 | -0081 | 3494 | 2812 | 0000039 | 0057 | 14496 | 722 | | | | | | | |
| 212 | | OBS | T0280 | -0107 | 34949 | 2813 | | | 14489 | 695 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | CHIRP INCHES | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | |
|------------|---------|-----------|----------|-----------|--------------|---------------|------------|--------------------|----------------|-----------------|--------------|--------------|------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|---------------------|-----|
| CRUISE NO. | ID. NO. | | | | | 10' | 1" | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | | | PER |
| 311165 | | EW | 72270N | 047150E | | 264 | 27 | 09 | 17 | 007 | 1967 | 099 | 0237 | 02 | 36 | 2 | | | 5 | 7 | 0104 | |
| | | | | | | 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 | | | | | | | | | | |
| | | | | | | | | | 27 | 508 | 192 | 043 | 027 | 5 | 09 | | | | | | | |

| MESSAGE TIME (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 - dl) | TOTAL-P (μg - dl) | NO ₂ -N (μg - dl) | NO ₃ -N (μg - dl) | SIO ₄ -Si (μg - dl) | pH | S.C.C. |
|------------------------|----------|-----------|-----------|------|-------|---------|---|---------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|----|--------|
| | | STD | 0000 | 0666 | 3464 | 2720 | 0008754 | 0000 | 14772 | 688 | | | | | | | |
| 007 | | OBS | 0000 | 0666 | 34639 | 2720 | | | 14772 | 688 | | | | | | | |
| 007 | | OBS | 0005 | 0667 | 34630 | 2719 | | | 14774 | 696 | | | | | | | |
| | | STD | 0010 | 0666 | 3463 | 2719 | 0008836 | 0009 | 14774 | 689 | | | | | | | |
| | | OBS | 0010 | 0666 | 3463 | 2719 | | | 14774 | 689 | | | | | | | |
| | | STD | 0020 | 0666 | 3462 | 2719 | 0008859 | 0016 | 14776 | 688 | | | | | | | |
| 007 | | OBS | 0024 | 0666 | 34629 | 2719 | | | 14776 | 688 | | | | | | | |
| | | STD | 0030 | 0667 | 3467 | 2735 | 0007369 | 0026 | 14739 | 688 | | | | | | | |
| 007 | | OBS | 0049 | 0666 | 34769 | 2767 | | | 14655 | 686 | | | | | | | |
| | | STD | 0050 | 0662 | 3477 | 2767 | 0004328 | 0037 | 14653 | 688 | | | | | | | |
| 007 | | OBS | 0073 | 0667 | 34791 | 2775 | | | 14631 | 694 | | | | | | | |
| | | STD | 0074 | 0667 | 3480 | 2776 | 0003530 | 0047 | 14630 | 694 | | | | | | | |
| 007 | | OBS | 0098 | 0665 | 34844 | 2781 | | | 14625 | 690 | | | | | | | |
| | | STD | 1000 | 0664 | 3485 | 2782 | 0002991 | 0055 | 14624 | 690 | | | | | | | |
| | | STD | 0125 | 0661 | 3485 | 2780 | 0002687 | 0063 | 14613 | 694 | | | | | | | |
| 007 | | OBS | 0146 | 0660 | 3486 | 2788 | | | 14608 | 691 | | | | | | | |
| | | STD | 0151 | 0660 | 3486 | 2788 | 0002421 | 0069 | 14607 | 691 | | | | | | | |
| | | STD | 0156 | 0663 | 3489 | 2793 | 0001714 | 0080 | 14598 | 697 | | | | | | | |
| 007 | | OBS | 10217 | 0662 | 3492 | 2795 | | | 14596 | 699 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | CHIRP INCHES | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | |
|------------|---------|-----------|----------|-----------|--------------|---------------|------------|--------------------|----------------|-----------------|--------------|--------------|------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|---------------------|-----|
| CRUISE NO. | ID. NO. | | | | | 10' | 1" | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | | | PER |
| 311165 | | EW | 72254N | 048130E | | 264 | 28 | 09 | 27 | 036 | 1967 | 099 | 0110 | 01 | 36 | 2 | | | 7 | 3 | 0105 | |
| | | | | | | 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 | | | | | | | | | | |
| | | | | | | | | | 27 | 28 | 174 | 036 | 010 | 0 | 07 | | | | | | | |

| MESSAGE TIME (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 - dl) | TOTAL-P (μg - dl) | NO ₂ -N (μg - dl) | NO ₃ -N (μg - dl) | SIO ₄ -Si (μg - dl) | pH | S.C.C. |
|------------------------|----------|-----------|-----------|------|-------|---------|---|---------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|----|--------|
| | | STD | 0000 | 0679 | 3472 | 2735 | 0007091 | 0000 | 14737 | 710 | | | | | | | |
| 037 | | OBS | 0000 | 0679 | 34719 | 2735 | | | 14739 | 700 | | | | | | | |
| 037 | | OBS | 0007 | 0680 | 34716 | 2737 | | | 14740 | 714 | | | | | | | |
| | | STD | 0010 | 0679 | 3472 | 2736 | 0007100 | 0007 | 14740 | 708 | | | | | | | |
| | | OBS | 0010 | 0679 | 3472 | 2736 | | | 14740 | 708 | | | | | | | |
| | | STD | 0020 | 0680 | 3471 | 2736 | 0007262 | 0014 | 14742 | 704 | | | | | | | |
| 037 | | OBS | 0027 | 0680 | 34722 | 2737 | | | 14743 | 741 | | | | | | | |
| | | STD | 0030 | 0680 | 3472 | 2737 | 0007381 | 0021 | 14703 | 730 | | | | | | | |
| | | STD | 0030 | 0680 | 3472 | 2737 | 0007640 | 0029 | 14701 | 710 | | | | | | | |
| 037 | | OBS | 0070 | 0680 | 34809 | 2784 | | | 14591 | 710 | | | | | | | |
| | | STD | 0071 | 0681 | 3480 | 2784 | 0007243 | 0035 | 14567 | 710 | | | | | | | |
| 037 | | OBS | 0097 | 0679 | 34820 | 2789 | | | 14567 | 710 | | | | | | | |
| 037 | | OBS | 0149 | 0679 | 34817 | 2789 | | | 14536 | 674 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | CHIRP INCHES | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER | |
|------------|---------|-----------|----------|-----------|--------------|---------------|------------|--------------------|----------------|-----------------|--------------|--------------|------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|---------------------|-----|
| CRUISE NO. | ID. NO. | | | | | 10' | 1" | MO | DAY | HR | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | | | | PER |
| 311166 | | EW | 71544N | 072200E | | 282 | 28 | 09 | 17 | 006 | 1967 | 099 | 0117 | 01 | 30 | 2 | | | 6 | 8 | 0106 | |
| | | | | | | 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 | | | | | | | | | | |
| | | | | | | | | | 27 | 28 | 174 | 034 | 014 | 02 | 17 | 07 | | | | | | |

| MESSAGE TIME (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 - dl) | TOTAL-P (μg - dl) | NO ₂ -N (μg - dl) | NO ₃ -N (μg - dl) | SIO ₄ -Si (μg - dl) | pH | S.C.C. |
|------------------------|----------|-----------|-----------|------|-------|---------|---|---------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|----|--------|
| | | STD | 0000 | 0665 | 3448 | 2719 | 0004210 | 0000 | 14747 | 686 | | | | | | | |
| 066 | | OBS | 0000 | 0665 | 34481 | 2719 | | | 14747 | 686 | | | | | | | |
| 066 | | OBS | 0007 | 0666 | 34475 | 2719 | | | 14748 | 690 | | | | | | | |
| | | STD | 0010 | 0668 | 34449 | 2719 | 0004299 | 0009 | 14749 | 686 | | | | | | | |
| | | OBS | 0010 | 0668 | 34449 | 2719 | | | 14749 | 686 | | | | | | | |
| | | STD | 0020 | 0665 | 3457 | 2727 | 0003836 | 0013 | 14750 | 689 | | | | | | | |
| 066 | | OBS | 0025 | 0664 | 34558 | 2720 | | | 14751 | 690 | | | | | | | |
| | | STD | 0030 | 0643 | 3460 | 2735 | 0007589 | 0026 | 14727 | 713 | | | | | | | |
| | | STD | 0030 | 0643 | 3460 | 2735 | 0007627 | 0036 | 14638 | 764 | | | | | | | |
| | | OBS | 0030 | 0643 | 34705 | 2767 | | | 14636 | 764 | | | | | | | |
| 066 | | OBS | 0030 | 0643 | 34705 | 2767 | | | 14636 | 764 | | | | | | | |
| | | STD | 0070 | 0639 | 3480 | 2793 | 0001711 | 0046 | 14534 | 728 | | | | | | | |
| 066 | | OBS | 0075 | 0639 | 3480 | 2793 | | | 14534 | 728 | | | | | | | |
| | | STD | 0100 | 0619 | 3480 | 2797 | 0001351 | 0051 | 14516 | 664 | | | | | | | |
| 066 | | OBS | 0104 | 0611 | 34817 | 2797 | | | 14513 | 649 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRAFT INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | |
|-----------|---------|------------|------------------|-------------------|-----------------|----------------|----|--------------------|-----|-------------|------|-----------------|----------------|----------------------|-----------------------|-------------------|-----|-----|--------------|-------------------------|---------------------|-----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | | | SEA | |
| 311 | 165 | EW | 70435N | 051150E | 283 | 01 | 09 | 17 | 126 | 1967 | 110 | 0101 | 01 | 30 | 2 | | | 40 | 7 | 8 | 0107 | | |
| | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mbs) | | DRY BULB | | WET BULB | | VIS. CODE | | | | | | | |
| | | 06 | | 17 | | 26 | | S13 | | 151 | | 053 | | 046 | | 5 | | 06 | | | | | |

| MESSAGE TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME AND MALT-310? | 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.T.C. |
|-------------------------|----------|-----------|-----------|------|-------|---------|-------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|--------|
| | | STD | 0000 | 0609 | 3463 | 2727 | 0008116 | 0000 | 14750 | 695 | | | | | | | |
| | 126 | OBS | 0000 | 0609 | 34629 | 2727 | | | 14750 | 695 | | | | | | | |
| | 126 | OBS | 0005 | 0609 | 34631 | 2727 | | | 14750 | 696 | | | | | | | |
| | | STD | 0010 | 0609 | 3463 | 2727 | 0008107 | 0005 | 14751 | 696 | | | | | | | |
| | 126 | OBS | 0010 | 0609 | 34634 | 2727 | | | 14751 | 696 | | | | | | | |
| | | STD | 0020 | 0609 | 3463 | 2727 | 0008114 | 0016 | 14753 | 694 | | | | | | | |
| | 126 | OBS | 0025 | 0604 | 34633 | 2727 | | | 14754 | 693 | | | | | | | |
| | | STD | 0030 | 0607 | 3464 | 2745 | 0008445 | 0024 | 14697 | 693 | | | | | | | |
| | | STD | 0050 | 0070 | 3468 | 2783 | 0002643 | 0033 | 14529 | 691 | | | | | | | |
| | 126 | OBS | 0050 | 0070 | 34676 | 2783 | | | 14529 | 691 | | | | | | | |
| | | STD | 0075 | 0050 | 3471 | 2786 | 0002482 | 0039 | 14524 | 677 | | | | | | | |
| | 126 | OBS | 0085 | 0042 | 34721 | 2786 | | | 14522 | 668 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRAFT INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | |
|-----------|---------|------------|------------------|-------------------|-----------------|----------------|----|--------------------|-----|-------------|------|-----------------|----------------|----------------------|-----------------------|-------------------|-----|-----|--------------|-------------------------|---------------------|-----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | | | SEA | |
| 311 | 165 | EW | 70570N | 043530E | 284 | 09 | 09 | 17 | 154 | 1967 | 109 | 0115 | 01 | 30 | 2 | | | 7 | 8 | 0108 | | | |
| | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mbs) | | DRY BULB | | WET BULB | | VIS. CODE | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| MESSAGE TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME AND MALT-310? | 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.T.C. |
|-------------------------|----------|-----------|-----------|------|-------|---------|-------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|--------|
| | | STD | 0000 | 0641 | 3467 | 2726 | 0008228 | 0000 | 14763 | 690 | | | | | | | |
| | 155 | OBS | 0000 | 0641 | 34667 | 2726 | | | 14763 | 690 | | | | | | | |
| | 155 | OBS | 0005 | 0640 | 34668 | 2726 | | | 14763 | 692 | | | | | | | |
| | | STD | 0010 | 0639 | 3467 | 2726 | 0008203 | 0008 | 14764 | 693 | | | | | | | |
| | 155 | OBS | 0010 | 0639 | 34669 | 2726 | | | 14764 | 693 | | | | | | | |
| | | STD | 0020 | 0639 | 3467 | 2726 | 0008210 | 0016 | 14765 | 686 | | | | | | | |
| | 155 | OBS | 0025 | 0639 | 34673 | 2726 | | | 14766 | 682 | | | | | | | |
| | | STD | 0030 | 0523 | 3469 | 2742 | 0006687 | 0024 | 14720 | 690 | | | | | | | |
| | | STD | 0050 | 0199 | 3474 | 2774 | 0003247 | 0034 | 14587 | 750 | | | | | | | |
| | 155 | OBS | 0051 | 0189 | 34746 | 2780 | | | 14583 | 753 | | | | | | | |
| | | STD | 0075 | 0114 | 3475 | 2786 | 0002576 | 0041 | 14554 | 689 | | | | | | | |
| | 155 | OBS | 0076 | 0111 | 34750 | 2786 | | | 14552 | 687 | | | | | | | |
| | 155 | OBS | 0097 | 0056 | 34731 | 2786 | | | 14531 | 641 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRAFT INCHES | MARSDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER | | |
|-----------|---------|------------|------------------|-------------------|-----------------|----------------|----|--------------------|-----|-------------|------|-----------------|----------------|----------------------|-----------------------|-------------------|-----|-----|--------------|-------------------------|---------------------|-----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT | PER | | | | SEA | |
| 311 | 165 | EW | 71070N | 040266E | 284 | 18 | 09 | 17 | 185 | 1967 | 108 | 0146 | 01 | 31 | 6 | | | 5 | 5 | 0109 | | | |
| | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OR FORCE | | METER (mbs) | | DRY BULB | | WET BULB | | VIS. CODE | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

| MESSAGE TIME OF HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME AND MALT-310? | 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.T.C. |
|-------------------------|----------|-----------|-----------|------|-------|---------|-------------------------------|--------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|--------|
| | | STD | 0000 | 0660 | | | | | | 679 | | | | | | | |
| | 185 | OBS | 0000 | 0660 | 34750 | 27300 | | | | 674 | | | | | | | |
| | 185 | OBS | 0006 | 0659 | 34642 | 2725 | | | 14771 | 687 | | | | | | | |
| | | STD | 0010 | 0659 | 3469 | 2725 | 0008299 | | 14772 | 685 | | | | | | | |
| | 185 | OBS | 0011 | 0659 | 34687 | 2725 | | | 14772 | 685 | | | | | | | |
| | | STD | 0020 | 0660 | 3469 | 2725 | 0008336 | | 14774 | 684 | | | | | | | |
| | 185 | OBS | 0028 | 0660 | 34688 | 2725 | | | 14775 | 683 | | | | | | | |
| | | STD | 0030 | 0620 | 3469 | 2730 | 0007838 | | 14760 | 691 | | | | | | | |
| | | STD | 0050 | 0281 | 3469 | 2768 | 0004290 | | 14622 | 740 | | | | | | | |
| | 185 | OBS | 0055 | 0214 | 34693 | 2774 | | | 14594 | 743 | | | | | | | |
| | | STD | 0075 | 0179 | 3473 | 2779 | 0003186 | | 14582 | 706 | | | | | | | |
| | 185 | OBS | 0083 | | 34736 | | | | 694 | | | | | | | | |
| | | STD | 0100 | 0136 | 3475 | 2784 | 0002724 | | 14567 | 604 | | | | | | | |
| | 185 | OBS | 0110 | | 34760 | | | | 668 | | | | | | | | |
| | | STD | 0125 | 0044 | 3476 | 2788 | 0002370 | | 14552 | 639 | | | | | | | |
| | 185 | OBS | 0131 | 0062 | 34762 | 2788 | | | 14548 | 624 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1 10 | LONGITUDE 1 10 | DATE MO DAY HR | MARDEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-------------|------------------|-------------------|-------------------|---------------|----|--------------------|-----|----------------------|--------------|------|-----------------|----------------------|-------------------|------------|----------------|--------------|-------------|------|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR | 10 | | | 07 | CRUISE NO. | STATION NUMBER | | DIR | HGT | |
| 311 | 165 | EW | 71220N | 04700E | 284 | 17 | 09 | 17 | 13 | 1967 | 107 | 0128 | 01 | 31 | 7 | | | 5 | 5 | 0110 | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | | TRANS. DIR. | | SPEED OF FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | |
| | | 33 | | S15 | | 097 | | 059 033 | | 8 07 | | | | | | | | | | | |

| MESSAGE TIME HR 1 TO | CASE NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. AS 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. |
|----------------------|----------|-----------|-----------|------|-------|---------|--|-------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|------|
| | 215 | STD | 0000 | 0692 | 3465 | 27.1 | 0009024 | 0000 | 14703 | 604 | | | | | | | |
| | 215 | UBS | 0000 | 069 | 34648 | 2717 | | | 14703 | 604 | | | | | | | |
| | 219 | STD | 0005 | 0691 | 34644 | 2717 | | | 14703 | 606 | | | | | | | |
| | 219 | STD | 0010 | 0693 | 3465 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | STD | 0015 | 0695 | 34646 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | T | 0020 | 0693 | 3467 | 2717 | | | 14700 | 608 | | | | | | | |
| | 219 | UB | 0025 | 0693 | 34656 | 2718 | | | 14700 | 608 | | | | | | | |
| | 219 | STD | 0030 | 0690 | 3465 | 2722 | 00.7640 | 0026 | 14700 | 613 | | | | | | | |
| | 219 | STD | 0035 | 0691 | 3468 | 2720 | 00.4230 | 0030 | 14653 | 605 | | | | | | | |
| | 219 | UBS | 0040 | 0691 | 3474 | 2720 | | | 14653 | 605 | | | | | | | |
| | 219 | STD | 0045 | 0691 | 3462 | 2720 | 00.0019 | 0047 | 14602 | 607 | | | | | | | |
| | 219 | UBS | 0050 | 0692 | 3462 | 2720 | | | 14602 | 607 | | | | | | | |
| | 219 | STD | 0055 | 0693 | 3464 | 2720 | 00.2200 | 0034 | 14503 | 604 | | | | | | | |
| | 219 | UBS | 0100 | 0695 | 34562 | 2720 | | | 14504 | 608 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1 10 | LONGITUDE 1 10 | DATE MO DAY HR | MARDEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-------------|------------------|-------------------|-------------------|---------------|----|--------------------|-----|----------------------|--------------|------|-----------------|----------------------|-------------------|------------|----------------|--------------|-------------|------|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR | 10 | | | 07 | CRUISE NO. | STATION NUMBER | | DIR | HGT | |
| 311 | 165 | EW | 71220N | 04700E | 284 | 17 | 09 | 17 | 13 | 1967 | 107 | 0128 | 01 | 31 | 7 | | | 5 | 5 | 0111 | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | | TRANS. DIR. | | SPEED OF FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | |
| | | 33 | | S15 | | 097 | | 059 033 | | 8 07 | | | | | | | | | | | |

| MESSAGE TIME HR 1 TO | CASE NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. AS 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. |
|----------------------|----------|-----------|-----------|------|-------|---------|--|-------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|------|
| | 219 | STD | 0000 | 0692 | 3465 | 27.1 | 0009024 | 0000 | 14703 | 604 | | | | | | | |
| | 219 | UBS | 0000 | 069 | 34648 | 2717 | | | 14703 | 604 | | | | | | | |
| | 219 | STD | 0005 | 0691 | 34644 | 2717 | | | 14703 | 606 | | | | | | | |
| | 219 | STD | 0010 | 0693 | 3465 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | STD | 0015 | 0695 | 34646 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | T | 0020 | 0693 | 3467 | 2717 | | | 14700 | 608 | | | | | | | |
| | 219 | UB | 0025 | 0693 | 34656 | 2718 | | | 14700 | 608 | | | | | | | |
| | 219 | STD | 0030 | 0690 | 3465 | 2722 | 00.7640 | 0026 | 14700 | 613 | | | | | | | |
| | 219 | STD | 0035 | 0691 | 3468 | 2720 | 00.4230 | 0030 | 14653 | 605 | | | | | | | |
| | 219 | UBS | 0040 | 0691 | 3474 | 2720 | | | 14653 | 605 | | | | | | | |
| | 219 | STD | 0045 | 0691 | 3462 | 2720 | 00.0019 | 0047 | 14602 | 607 | | | | | | | |
| | 219 | UBS | 0050 | 0692 | 3462 | 2720 | | | 14602 | 607 | | | | | | | |
| | 219 | STD | 0055 | 0693 | 3464 | 2720 | 00.2200 | 0034 | 14503 | 604 | | | | | | | |
| | 219 | UBS | 0100 | 0695 | 34562 | 2720 | | | 14504 | 608 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1 10 | LONGITUDE 1 10 | DATE MO DAY HR | MARDEN SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|------------|---------|-------------|------------------|-------------------|-------------------|---------------|----|--------------------|-----|----------------------|--------------|------|-----------------|----------------------|-------------------|------------|----------------|--------------|-------------|------|---------------------|
| CRUISE NO. | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR | 10 | | | 07 | CRUISE NO. | STATION NUMBER | | DIR | HGT | |
| 311 | 165 | EW | 71220N | 04700E | 284 | 17 | 09 | 17 | 13 | 1967 | 107 | 0128 | 01 | 31 | 7 | | | 5 | 5 | 0112 | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| COLOR CODE | | TRANS. DIR. | | SPEED OF FORCE | | METER (mb) | | DRY BULB WET BULB | | VIS CODE | | | | | | | | | | | |
| | | 33 | | S15 | | 097 | | 059 033 | | 8 07 | | | | | | | | | | | |

| MESSAGE TIME HR 1 TO | CASE NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-σ _t | Σ Δ D DYN. AS 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. |
|----------------------|----------|-----------|-----------|------|-------|---------|--|-------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|------|
| | 219 | STD | 0000 | 0692 | 3465 | 27.1 | 0009024 | 0000 | 14703 | 604 | | | | | | | |
| | 219 | UBS | 0000 | 069 | 34648 | 2717 | | | 14703 | 604 | | | | | | | |
| | 219 | STD | 0005 | 0691 | 34644 | 2717 | | | 14703 | 606 | | | | | | | |
| | 219 | STD | 0010 | 0693 | 3465 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | STD | 0015 | 0695 | 34646 | 2717 | | | 14703 | 609 | | | | | | | |
| | 219 | T | 0020 | 0693 | 3467 | 2717 | | | 14700 | 608 | | | | | | | |
| | 219 | UB | 0025 | 0693 | 34656 | 2718 | | | 14700 | 608 | | | | | | | |
| | 219 | STD | 0030 | 0690 | 3465 | 2722 | 00.7640 | 0026 | 14700 | 613 | | | | | | | |
| | 219 | STD | 0035 | 0691 | 3468 | 2720 | 00.4230 | 0030 | 14653 | 605 | | | | | | | |
| | 219 | UBS | 0040 | 0691 | 3474 | 2720 | | | 14653 | 605 | | | | | | | |
| | 219 | STD | 0045 | 0691 | 3462 | 2720 | 00.0019 | 0047 | 14602 | 607 | | | | | | | |
| | 219 | UBS | 0050 | 0692 | 3462 | 2720 | | | 14602 | 607 | | | | | | | |
| | 219 | STD | 0055 | 0693 | 3464 | 2720 | 00.2200 | 0034 | 14503 | 604 | | | | | | | |
| | 219 | UBS | 0100 | 0695 | 34562 | 2720 | | | 14504 | 608 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER |
|----------------------------|-------------|---------------|------------------|-------------------|----------------------|--------------------|--|---------------------------------------|-------------------|---------------------|-------------------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|------|----------------|----------------------|----------------|------|---------------------------|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | HGT | | PER | SEA | |
| 311 | 165 | E.W | 7200N | 042330E | 284 | 22 | 09 | 18 | 116 | 1967 | 104 | 0274 | 02 | 36 | 7 | | | 6 | 8 | 0113 | |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | |
| | | COLOR CODE | TRANS. IMI | DIR. | SPEED OR FORCE | (mb) | | DRY BULB | WET BULB | | | | | | | | | | | | |
| | | 07 | 17 | 36 | 520 | 135 | 032 | 025 | 7 | 09 | | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY x 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 -S µg-at/l | pH | STATION NO. | | | | |
| | | STD | 0000 | 0675 | 3469 | 2723 | 0008467 | 0000 | 14777 | 693 | | | | | | | | | | | |
| 116 | | OBS | 0000 | 0675 | 3469.5 | 2723 | | | 14777 | 693 | | | | | | | | | | | |
| 116 | | OBS | 0004 | 0674 | 3469.5 | 2723 | | | 14777 | 693 | | | | | | | | | | | |
| 116 | | OBS | 0009 | 0674 | 3469.4 | 2724 | | | 14778 | 690 | | | | | | | | | | | |
| | | STD | 0010 | 0674 | 3470 | 2724 | 0006434 | 0008 | 14778 | 690 | | | | | | | | | | | |
| | | STD | 0020 | 0675 | 3469 | 2723 | 0006510 | 0017 | 14760 | 692 | | | | | | | | | | | |
| 116 | | OBS | 0022 | 0675 | 3468.9 | 2723 | | | 14760 | 692 | | | | | | | | | | | |
| | | STD | 0030 | 0527 | 3473 | 2745 | 0006433 | 0024 | 14723 | 692 | | | | | | | | | | | |
| 116 | | OBS | 0045 | 0345 | 34801 | 2771 | | | 14650 | 691 | | | | | | | | | | | |
| | | STD | 0050 | 0359 | 3482 | 2773 | 0003630 | 0035 | 14649 | 692 | | | | | | | | | | | |
| 116 | | OBS | 0070 | 0316 | 34887 | 2780 | | | 14643 | 695 | | | | | | | | | | | |
| | | STD | 0075 | 0311 | 3490 | 2782 | 0002990 | 0043 | 14642 | 697 | | | | | | | | | | | |
| 116 | | OBS | 0094 | 0268 | 34948 | 2788 | | | 14636 | 706 | | | | | | | | | | | |
| | | STD | 0100 | 0279 | 3495 | 2788 | 0002369 | 0050 | 14635 | 708 | | | | | | | | | | | |
| | | STD | 0125 | 0233 | 3494 | 2792 | 0001032 | 0055 | 14617 | 717 | | | | | | | | | | | |
| | | STD | 0150 | 0174 | 3494 | 2790 | 0001014 | 0060 | 14599 | 724 | | | | | | | | | | | |
| | | STD | 0200 | 0016 | 3493 | 2806 | 0000545 | 0066 | 14552 | 730 | | | | | | | | | | | |
| 116 | | OBS | T0214 | -0035 | 34924 | 2806 | | | 14510 | 730 | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | | WEA- THER CODE | CLOUD CODES | | NODC STATION NUMBER |
|----------------------------|-------------|---------------|------------------|-------------------|----------------------|--------------------|--|---------------------------------------|-------------------|---------------------|-------------------------------|-----------------------|-------------------------------|-------------------------------|--------------------------------|------|----------------|----------------------|----------------|------|---------------------------|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | HGT | | PER | SEA | |
| 311 | 165 | E.W | 71310N | 026540E | 286 | 16 | 09 | 19 | 118 | 1967 | 111 | 0335 | 03 | 05 | 0 | | | 6 | 8 | 0114 | |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | |
| | | COLOR CODE | TRANS. IMI | DIR. | SPEED OR FORCE | (mb) | | DRY BULB | WET BULB | | | | | | | | | | | | |
| | | 07 | 16 | 07 | 502 | 235 | 056 | 041 | 8 | 10 | | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY x 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 -S µg-at/l | pH | STATION NO. | | | | |
| | | STD | 0000 | 0868 | 3416 | 2653 | 0015081 | 0000 | 14844 | 679 | | | | | | | | | | | |
| 118 | | OBS | 0000 | 0868 | 34164 | 2653 | | | 14844 | 679 | | | | | | | | | | | |
| 118 | | OBS | 0005 | 0866 | 34164 | 2654 | | | 14844 | 680 | | | | | | | | | | | |
| | | STD | 0010 | 0873 | 3418 | 2654 | 0015085 | 0015 | 14840 | 683 | | | | | | | | | | | |
| 118 | | OBS | 0010 | 0873 | 34176 | 2654 | | | 14840 | 683 | | | | | | | | | | | |
| | | STD | 0020 | 0894 | 3438 | 2656 | 0013902 | 0030 | 14860 | 660 | | | | | | | | | | | |
| 118 | | OBS | 0025 | 0904 | 34464 | 2671 | | | 14860 | 651 | | | | | | | | | | | |
| | | STD | 0030 | 0549 | 3452 | 2684 | 0012314 | 0043 | 14847 | 649 | | | | | | | | | | | |
| | | STD | 0050 | 0688 | 3471 | 2723 | 0008988 | 0063 | 14790 | 641 | | | | | | | | | | | |
| 118 | | OBS | 0051 | 0683 | 34717 | 2724 | | | 14789 | 641 | | | | | | | | | | | |
| | | STD | 0075 | 0626 | 3486 | 2743 | 0006710 | 0063 | 14772 | 648 | | | | | | | | | | | |
| 118 | | OBS | 0076 | 0624 | 34869 | 2744 | | | 14771 | 648 | | | | | | | | | | | |
| | | STD | 0100 | 0597 | 3498 | 2756 | 0005489 | 0098 | 14766 | 642 | | | | | | | | | | | |
| 116 | | OBS | 0102 | 0594 | 34952 | 2757 | | | 14762 | 641 | | | | | | | | | | | |
| | | STD | 0125 | 0526 | 3500 | 2767 | 0004521 | 0110 | 14741 | 647 | | | | | | | | | | | |
| | | STD | 0150 | 0471 | 3501 | 2774 | 0003651 | 0121 | 14723 | 654 | | | | | | | | | | | |
| 118 | | OBS | 0152 | 0468 | 35012 | 2774 | | | 14722 | 655 | | | | | | | | | | | |
| | | STD | 0200 | 0427 | 3501 | 2779 | 0003419 | 0139 | 14713 | 666 | | | | | | | | | | | |
| 118 | | OBS | T0203 | 0425 | 35011 | 2779 | | | 14713 | 669 | | | | | | | | | | | |
| | | STD | 0250 | 0394 | 3501 | 2780 | 0003113 | 0155 | 14707 | 667 | | | | | | | | | | | |
| | | STD | 0300 | 0370 | 3501 | 2785 | 0002904 | 0170 | 14706 | 665 | | | | | | | | | | | |
| 118 | | OBS | T0324 | 0362 | 35013 | 2786 | | | 14706 | 664 | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | SOUNDING INCH | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODE TYPE AMT | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------|------------------|-------------------|------------------|---------------|-----------------------------|---------------------------------|----------------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|-----------------------------|-------------------|----------------|-----|--------------|------------------------|---------------------|-------|-----|------|--|-------|--|--------------|--|-----------------|----------------------|-------|---------|------|----------------|-------|----------|----------|-----------|----|----|----|-----|-----|-----|-----|---|----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR | | MIN | SEC | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3111 | 115 | EW | 7157N | 06270E | 286 | 16 | 09 | 19 | 149 | 1967 | | 112 | 0289 | 03 | 07 | 2 | | | 6 | 8 | 0115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">WATER</th> <th colspan="2">WIND</th> <th colspan="2">BARO.</th> <th colspan="2">AIR TEMP. °C</th> <th rowspan="2">NO. OBS. DEPTHS</th> <th rowspan="2">SPECIAL OBSERVATIONS</th> </tr> <tr> <th>COLOR</th> <th>TRANSP.</th> <th>DIR.</th> <th>SPEED OF FORCE</th> <th>METER</th> <th>DRY BULB</th> <th>WET BULB</th> <th>VIS. CODE</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>15</td> <td>10</td> <td>S02</td> <td>235</td> <td>053</td> <td>039</td> <td>8</td> <td>10</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | WATER | | WIND | | BARO. | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | COLOR | TRANSP. | DIR. | SPEED OF FORCE | METER | DRY BULB | WET BULB | VIS. CODE | 06 | 15 | 10 | S02 | 235 | 053 | 039 | 8 | 10 | |
| WATER | | WIND | | BARO. | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR | TRANSP. | DIR. | SPEED OF FORCE | METER | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 15 | 10 | S02 | 235 | 053 | 039 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME OF HR | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S. ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-30° | 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 -S μg-at/l | pH | S/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0000 | 0839 | 3466 | 2697 | 0010987 | 0000 | 14840 | 662 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0000 | 0839 | 3466 | 2697 | | | | 14840 | 662 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0005 | 0837 | 34660 | 2697 | | | | 14840 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0838 | 3466 | 2697 | 0010961 | 0011 | 14841 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0010 | 0838 | 34662 | 2697 | | | | 14841 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0838 | 3465 | 2694 | 0010846 | 0022 | 14843 | 665 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0020 | 0824 | 34707 | 2703 | | | | 14839 | 661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0791 | 3475 | 2711 | 0009667 | 0042 | 14838 | 661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | 0693 | 3471 | 2743 | 0008642 | 0048 | 14779 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0050 | 0536 | 34720 | 2746 | | | | 14773 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | 0545 | 3474 | 2760 | 0008127 | 0053 | 14740 | 674 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0075 | 0532 | 34744 | 2761 | | | | 14736 | 675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | 0484 | 3475 | 2766 | 0004557 | 0075 | 14718 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0100 | 0471 | 34944 | 2769 | | | | 14715 | 665 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | 0467 | 3498 | 2771 | 0004303 | 0085 | 14717 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | 0455 | 3500 | 2775 | 0003750 | 0095 | 14716 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0150 | 0411 | 35000 | 2776 | | | | 14716 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | 0410 | 3501 | 2781 | 0003246 | 0113 | 14706 | 661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0200 | 0404 | 35015 | 2781 | | | | 14705 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0250 | 0386 | 3501 | 2783 | 0003045 | 0128 | 14704 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | 085 | 0250 | 0383 | 35009 | 2783 | | | | 14708 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | SOUNDING INCH | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODE TYPE AMT | NODC STATION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------|------------------|-------------------|------------------|---------------|-----------------------------|---------------------------------|----------------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|-----------------------------|-------------------|----------------|-----|--------------|------------------------|---------------------|-------|-----|------|--|-------|--|--------------|--|-----------------|----------------------|-------|---------|------|----------------|-------|----------|----------|-----------|----|----|----|-----|-----|-----|-----|---|----|--|
| CTRY CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | HR | | MIN | SEC | | | CRUISE NO. | STATION NUMBER | DIR | | | | HGT | PER | SEA | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3111 | 116 | EW | 7157N | 06254E | 286 | 16 | 09 | 19 | 149 | 1967 | | 113 | 0280 | 02 | 04 | 2 | | | 5 | 8 | 0116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| WATER | | WIND | | BARO. | | AIR TEMP. °C | | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLOR | TRANSP. | DIR. | SPEED OF FORCE | METER | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | 11 | 10 | S11 | 235 | 053 | 037 | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MESSAGE TIME OF HR | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S. ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-30° | 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 -S μg-at/l | pH | S/C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 000 | 0780 | 3482 | 2711 | 0009217 | 0000 | 14822 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0000 | 0780 | 34814 | 2711 | | | | 14822 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0005 | 0788 | 34814 | 2711 | | | | 14823 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0784 | 3482 | 2711 | 0009114 | 0004 | 14824 | 667 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0010 | 0784 | 34827 | 2711 | | | | 14824 | 667 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0741 | 3487 | 2718 | 0009030 | 0018 | 14826 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0020 | 0740 | 34834 | 2718 | | | | 14827 | 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0742 | 3489 | 2718 | 0008864 | 0027 | 14816 | 662 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0030 | 0638 | 34934 | 2747 | | | | 14773 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0040 | 0627 | 3494 | 2746 | 0008615 | 0041 | 14773 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0040 | 0611 | 3505 | 2754 | | | | 14768 | 645 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0050 | 0601 | 3504 | 2754 | 0008454 | 0050 | 14767 | 645 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0050 | 0580 | 35051 | 2761 | | | | 14760 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | 0577 | 3507 | 2761 | 0008307 | 0058 | 14759 | 651 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0105 | 0544 | 3506 | 2764 | 0008254 | 0074 | 14750 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0105 | 0522 | 35060 | 2771 | | | | 14744 | 661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0120 | 0510 | 3506 | 2771 | 0008101 | 0059 | 14743 | 662 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0120 | 0482 | 35065 | 2775 | | | | 14736 | 667 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | STD | 0130 | 0475 | 3505 | 2776 | 0008084 | 0105 | 14735 | 667 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 186 | 085 | 0130 | 0440 | 3505 | 2781 | | | | 14726 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIET INDEX | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|----------------|------------|---------------|------------------|-------------------|----------------|------------------|----|-----------------------|-----|--------------------|------|-------------------------|---------------|-----------------------|--------------------------------|----------------------|------|---------|----------------------|----------------------------|---------------------------|
| CRUISE CODE | ID. NO. | | | | | 10" | 1" | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT PER | | | |
| 311165 | | EW | 72540N | 025150E | 286 | 25 | 09 | 19 | 213 | 1967 | | 114 | 0414 | 04 | 17 | 2 | | | 5 | 8 | 0117 |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | COLOR CODE | | TRANS. M | | DIR. | | SPEED OR FORCE | | METER (mbars) | | DRY BULB | | WET BULB | | VIS. CODE | | | | | |
| | | | | | | | | 17 | | 505 | | 226 | | 054 | | 039 | | 8 | | 11 | |

| MESSAGE TIME HR 1/10 | CAS- T NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ D DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{at}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$ | pH | S C C |
|----------------------------|------------------|--------------|-----------|------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------------|
| | | STD | 0000 | 0768 | 3481 | 2719 | 0008681 | 0000 | 14814 | 540 | | | | | | | |
| | 212 | OBS | 0000 | 0768 | 34815 | 2719 | | | 14814 | 590 | | | | | | | |
| | 213 | OBS | 0005 | 0767 | 34805 | 2719 | | | 14815 | 597 | | | | | | | |
| | | STD | 0010 | 0769 | 3481 | 2719 | 0008898 | 0009 | 14817 | 591 | | | | | | | |
| | | OBS | 0010 | 0769 | 34807 | 2719 | | | 14817 | 591 | | | | | | | |
| | | STD | 0020 | 0756 | 3481 | 2721 | 0008742 | 0018 | 14813 | 592 | | | | | | | |
| | 213 | OBS | 0025 | 0748 | 34805 | 2722 | | | 14811 | 593 | | | | | | | |
| | | STD | 0030 | 0752 | 3484 | 2727 | 0008177 | 0026 | 14806 | 588 | | | | | | | |
| | | STD | 0050 | 0684 | 3497 | 2744 | 0006599 | 0041 | 14792 | 574 | | | | | | | |
| | 213 | OBS | 0051 | 0682 | 34975 | 2744 | | | 14792 | 573 | | | | | | | |
| | | STD | 0075 | 0665 | 3515 | 2761 | 0005048 | 0056 | 14791 | 565 | | | | | | | |
| | 213 | OBS | 0076 | 0664 | 35154 | 2761 | | | 14791 | 563 | | | | | | | |
| | | STD | 0100 | 0620 | 3517 | 2768 | 0004359 | 0067 | 14778 | 571 | | | | | | | |
| | 213 | OBS | 0102 | 0517 | 35171 | 2764 | | | 14777 | 572 | | | | | | | |
| | | STD | 0125 | 0582 | 3516 | 2772 | 0003997 | 0078 | 14766 | 577 | | | | | | | |
| | | STD | 0150 | 0549 | 3515 | 2776 | 0003705 | 0087 | 14757 | 583 | | | | | | | |
| | 213 | OBS | 0152 | 0547 | 35147 | 2776 | | | 14756 | 583 | | | | | | | |
| | | STD | 0200 | 0503 | 3513 | 2780 | 0003362 | 0105 | 14746 | 589 | | | | | | | |
| | 212 | OBS | T0203 | 0500 | 35131 | 2780 | | | 14745 | 589 | | | | | | | |
| | | STD | 0250 | 0438 | 3510 | 2785 | 0002926 | 0121 | 14727 | 594 | | | | | | | |
| | | STD | 0300 | 0367 | 3507 | 2797 | 0002446 | 0134 | 14705 | 599 | | | | | | | |
| | 213 | OBS | T0305 | 0360 | 35067 | 2790 | | | 14703 | 600 | | | | | | | |
| | | STD | 0400 | 0213 | 3504 | 2802 | 0001251 | 0153 | 14655 | 609 | | | | | | | |
| | 213 | OBS | T0400 | 0213 | 35044 | 2802 | | | 14655 | 609 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DRIET INDEX | MARDEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPL'S | WAVE OBSERVATIONS | | | WEA- THER CODE | CLOUD CODES TYPE AMT | NODC STATION NUMBER |
|----------------|------------|---------------|------------------|-------------------|----------------|------------------|----|-----------------------|-----|--------------------|------|-------------------------|---------------|-----------------------|--------------------------------|----------------------|------|---------|----------------------|----------------------------|---------------------------|
| CRUISE CODE | ID. NO. | | | | | 10" | 1" | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT PER | | | |
| 311165 | | EW | 73225N | 024370E | 286 | 34 | 09 | 20 | 011 | 1967 | | 115 | 0406 | 04 | 17 | 2 | | | 5 | 8 | 0118 |
| | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | COLOR CODE | | TRANS. M | | DIR. | | SPEED OR FORCE | | METER (mbars) | | DRY BULB | | WET BULB | | VIS. CODE | | | | | |
| | | | | | | | | 18 | | 508 | | 217 | | 052 | | 038 | | 8 | | 11 | |

| MESSAGE TIME HR 1/10 | CAS- T NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta$ D DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{at}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$ | pH | S C C |
|----------------------------|------------------|--------------|-----------|------|-------|---------|---|---|-------------------|---------------------|--|---|--|--|--|----|-------------|
| | | STD | 0000 | 0656 | 3491 | 2743 | 0006619 | 0000 | 14772 | 683 | | | | | | | |
| | 011 | OBS | 0000 | 0656 | 34908 | 2743 | | | 14772 | 683 | | | | | | | |
| | | OBS | 0005 | 0656 | 34905 | 2742 | | | 14773 | 690 | | | | | | | |
| | | STD | 0010 | 0657 | 3490 | 2742 | 0006677 | 0007 | 14774 | 689 | | | | | | | |
| | | OBS | 0010 | 0657 | 34904 | 2742 | | | 14774 | 689 | | | | | | | |
| | | STD | 0020 | 0656 | 3491 | 2743 | 0006661 | 0013 | 14775 | 684 | | | | | | | |
| | 111 | OBS | 0025 | 0655 | 34907 | 2743 | | | 14776 | 681 | | | | | | | |
| | | STD | 0030 | 0630 | 3496 | 2750 | 0005947 | 0020 | 14767 | 676 | | | | | | | |
| | | STD | 0050 | 0546 | 3508 | 2777 | 0004059 | 0030 | 14738 | 662 | | | | | | | |
| | 111 | OBS | 0050 | 0546 | 35080 | 2770 | | | 14738 | 662 | | | | | | | |
| | | STD | 0075 | 0480 | 3508 | 2778 | 0003339 | 0039 | 14715 | 661 | | | | | | | |
| | 111 | OBS | 0076 | 0478 | 35080 | 2779 | | | 14715 | 661 | | | | | | | |
| | | STD | 0100 | 0453 | 3508 | 2782 | 0003058 | 0047 | 14708 | 669 | | | | | | | |
| | 111 | OBS | 0101 | 0452 | 35082 | 2782 | | | 14708 | 669 | | | | | | | |
| | | STD | 0125 | 0431 | 3507 | 2783 | 0002943 | 0054 | 14703 | 673 | | | | | | | |
| | | STD | 0150 | 0407 | 3506 | 2785 | 0002789 | 0062 | 14697 | 677 | | | | | | | |
| | 011 | OBS | 0151 | 0406 | 35057 | 2785 | | | 14697 | 677 | | | | | | | |
| | | STD | 0200 | 0356 | 3505 | 2789 | 0002394 | 0074 | 14684 | 691 | | | | | | | |
| | 111 | OBS | T0202 | 0354 | 35046 | 2789 | | | 14683 | 691 | | | | | | | |
| | | STD | 0250 | 0292 | 3504 | 2795 | 0001903 | 0085 | 14664 | 653 | | | | | | | |
| | | STD | 0300 | 0232 | 3503 | 2799 | 0001449 | 0094 | 14647 | 614 | | | | | | | |
| | 111 | OBS | T0302 | 0230 | 35032 | 2799 | | | 14646 | 614 | | | | | | | |
| | 111 | OBS | T0392 | 0133 | 35012 | 2805 | | | 14618 | 700 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER |
|-------------|------------|-----------|----------------|-----------------|-----------------|--------------------|-----------|-----------------|----------------------|--------------|----------|-----------------|-----------------------|-------------------|----------------|-----|--------------|-------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1" | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR | | | |
| 311165 | EW | 73510N | 024000E | 286 | 34 | 09 | 29 | 044 | 1967 | 116 | 0450 | 04 | 17 | 21 | | 5 | 8 | 0119 | |
| WATER | | WIND | | BARO-METER (mb) | AIR TEMP. °C | | VIS. CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| COLOR CODE | TRANS. (m) | DIR | SPEED OR FORCE | | DRY BULB | WET BULB | | | | | | | | | | | | | |
| | | | 16 | 306 | 205 | 051 | 059 | 8 | 12 | | | | | | | | | | |

| MESSAGE TIME & HR | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | σ _t °C |
|-------------------|----------|-----------|-----------|------|-------|---------|--|---------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|-------------------|
| | | STD | 0000 | 0628 | 3492 | 2747 | 0006213 | 0000 | 14761 | 680 | | | | | | | |
| | 046 | OBS | 0000 | 0628 | 34915 | 2747 | | | 14761 | 680 | | | | | | | |
| | 046 | OBS | 0005 | 0633 | 34915 | 2746 | | | 14764 | 693 | | | | | | | |
| | | STD | 0010 | 0626 | 34913 | 2747 | 0006216 | 0006 | 14762 | 680 | | | | | | | |
| | 046 | OBS | 0010 | 0626 | 34913 | 2747 | | | 14762 | 680 | | | | | | | |
| | | STD | 0020 | 0627 | 3491 | 2747 | 0006264 | 0012 | 14764 | 691 | | | | | | | |
| | 046 | OBS | 0025 | 0627 | 34904 | 2747 | | | 14765 | 693 | | | | | | | |
| | | STD | 0030 | 0594 | 3495 | 2754 | 0005576 | 0018 | 14753 | 685 | | | | | | | |
| | | STD | 0050 | 0497 | 3506 | 2775 | 0003655 | 0028 | 14718 | 663 | | | | | | | |
| | 46 | OBS | 0050 | 0497 | 35059 | 2775 | | | 14718 | 663 | | | | | | | |
| | | STD | 0075 | 0454 | 3505 | 2781 | 0003093 | 0036 | 14705 | 662 | | | | | | | |
| | 046 | OBS | 0076 | 0452 | 35076 | 2781 | | | 14704 | 662 | | | | | | | |
| | | STD | 0100 | 0421 | 3505 | 2784 | 0002861 | 0043 | 14695 | 672 | | | | | | | |
| | 46 | OBS | 0101 | 0420 | 35052 | 2784 | | | 14695 | 672 | | | | | | | |
| | | STD | 0125 | 0388 | 3504 | 2787 | 0002569 | 0050 | 14685 | 683 | | | | | | | |
| | | STD | 0150 | 0358 | 3506 | 2790 | 0002294 | 0056 | 14676 | 695 | | | | | | | |
| | 46 | OBS | 0151 | 0357 | 35055 | 2790 | | | 14676 | 695 | | | | | | | |
| | | STD | 0200 | 0334 | 3505 | 2794 | 0001926 | 0067 | 14664 | 700 | | | | | | | |
| | 46 | OBS | T 200 | 0307 | 35052 | 2794 | | | 14663 | 700 | | | | | | | |
| | | STD | 0250 | 0277 | 3505 | 2797 | 0001682 | 0076 | 14656 | 700 | | | | | | | |
| | | STD | 0300 | 0237 | 3504 | 2794 | 0001437 | 0084 | 14644 | 712 | | | | | | | |
| | 46 | OBS | T 300 | 0234 | 35039 | 2795 | | | 14648 | 712 | | | | | | | |
| | | STD | 0400 | 0131 | 3501 | 2805 | 0000831 | 0095 | 14614 | 647 | | | | | | | |
| | 046 | OBS | T 0400 | 0104 | 35008 | 2805 | | | 14618 | 640 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE | LONGITUDE | MARS DEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | NODC STATION NUMBER |
|-------------|------------|-----------|----------------|-----------------|-----------------|--------------------|-----------|-----------------|----------------------|--------------|----------|-----------------|-----------------------|-------------------|----------------|-----|--------------|-------------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | 1" | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR | | | |
| 311165 | EW | 7411N | 022090E | 286 | 34 | 09 | 29 | 087 | 1967 | 117 | 0221 | 02 | 34 | 11 | | 6 | 8 | 0120 | |
| 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 | | | | | | | | | | | | | |
| | | | 5 | 35 | 0 | 300 | 204 | 45 | 032 | 8 | 10 | | | | | | | | |

| MESSAGE TIME & HR | CARD NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-t | SPECIFIC VOLUME ANOMALY-σ _t | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | 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 | σ _t °C |
|-------------------|----------|-----------|-----------|------|-------|---------|--|---------------------------------|----------------|---------------------|----------------------------|-----------------|----------------------------|----------------------------|------------------------------|----|-------------------|
| | | STD | 0000 | 0343 | 3395 | 2703 | 0010353 | 0000 | 14630 | 762 | | | | | | | |
| | 087 | OBS | 0000 | 0343 | 33954 | 2703 | | | 14630 | 762 | | | | | | | |
| | 087 | OBS | 0005 | 0343 | 33973 | 2703 | | | 14631 | 764 | | | | | | | |
| | | STD | 0010 | 0345 | 3394 | 2706 | 0010137 | 0011 | 14635 | 760 | | | | | | | |
| | 47 | OBS | 0010 | 0344 | 33987 | 2706 | | | 14635 | 760 | | | | | | | |
| | | STD | 0015 | 0442 | 3491 | 2721 | 0005724 | 0020 | 14680 | 742 | | | | | | | |
| | 47 | OBS | 0015 | 0468 | 3444 | 2703 | | | 14654 | 734 | | | | | | | |
| | | STD | 0020 | 0447 | 3481 | 2745 | 0006442 | 0027 | 14688 | 724 | | | | | | | |
| | | STD | 0050 | 0373 | 3504 | 2787 | 0002499 | 0036 | 14666 | 701 | | | | | | | |
| | 47 | OBS | 0051 | 0371 | 35042 | 2788 | | | 14665 | 700 | | | | | | | |
| | | STD | 0070 | 0321 | 3504 | 2792 | 0002029 | 0042 | 14648 | 705 | | | | | | | |
| | | STD | 0070 | 0220 | 3504 | 2792 | | | 14648 | 705 | | | | | | | |
| | 47 | OBS | 0071 | 0284 | 3504 | 2795 | 0001712 | 0047 | 14636 | 706 | | | | | | | |
| | | OBS | 0071 | 0283 | 35047 | 2795 | | | 14636 | 706 | | | | | | | |
| | | STD | 0125 | 0261 | 3503 | 2797 | 0001596 | 0051 | 14631 | 706 | | | | | | | |
| | | STD | 0150 | 0237 | 3503 | 2799 | 0001416 | 0054 | 14624 | 704 | | | | | | | |
| | 087 | OBS | 0152 | 0235 | 35027 | 2799 | | | 14623 | 704 | | | | | | | |
| | | STD | 0210 | 0191 | 3502 | 2802 | 0001145 | 0061 | 14612 | 700 | | | | | | | |
| | 47 | OBS | T 0200 | 0186 | 35016 | 2802 | | | 14610 | 700 | | | | | | | |
| | 47 | OBS | T 0200 | 0154 | 35008 | 2804 | | | 14593 | 706 | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIPSE INDEX | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | |
|-------------------------|-----------|-----------|------------------|-------------------|-------------|-----------------|--|---|----------------|---------------------|---|--|---|---|--|----------------------|------------|-----|-----|--------------|-------------|------|---------------------|------|
| | | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | PER | | SEA | TYPE | | AMT |
| 311165 | | EW | 74470N | 022400E | | 286 | 42 | 09 | 20 | 118 | 1967 | | 118 | 0099 | 01 | 24 | 0 | | | | 0 | 8 | | 0121 |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | COLOP CODE | TRANS. (m) | DIR. | SPEED OR FORCE | (mbs) | DRY BULB | WET BULB | VIS CODE | | | | | | | | | | | |
| | | | | | | 05 | 18 | 13 | 502 | 198 | 026 | 021 | 8 | 06 | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -S $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | 3 C/D/S | | | | | | | |
| | | STD | 0000 | 0094 | 3308 | 2653 | 0015172 | 0000 | 14509 | 827 | | | | | | | | | | | | | | |
| 118 | | OBS | 0000 | 0094 | 33075 | 2653 | | | 14509 | 827 | | | | | | | | | | | | | | |
| 118 | | OBS | 0005 | 0092 | 33079 | 2653 | | | 14509 | 827 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0088 | 3309 | 2654 | 0015000 | 0015 | 14506 | 828 | | | | | | | | | | | | | | |
| 119 | | OBS | 0010 | 0088 | 33093 | 2654 | | | 14508 | 828 | | | | | | | | | | | | | | |
| | | STD | 0020 | 0014 | 3375 | 2711 | 0009601 | 0027 | 14485 | 819 | | | | | | | | | | | | | | |
| 119 | | OBS | 0025 | -0019 | 33996 | 2753 | | | 14474 | 815 | | | | | | | | | | | | | | |
| | | STD | 0030 | -0053 | 3408 | 2741 | 0006777 | 0036 | 14461 | 802 | | | | | | | | | | | | | | |
| | | STD | 0050 | -0146 | 3435 | 2766 | 0004403 | 0047 | 14424 | 761 | | | | | | | | | | | | | | |
| 188 | | OBS | 0050 | -0146 | 34346 | 2766 | | | 14424 | 761 | | | | | | | | | | | | | | |
| | | STD | 0075 | -0150 | 3450 | 2778 | 0003197 | 0056 | 14429 | 720 | | | | | | | | | | | | | | |
| 119 | | OBS | 0084 | -0152 | 34502 | 2779 | | | 14429 | 708 | | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIPSE INDEX | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------------------|-----------|-----------|------------------|-------------------|-------------|-----------------|--|---|----------------|---------------------|---|--|---|---|--|----------------------|------------|-----|-----|--------------|-------------|------|---------------------|
| | | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 75150N | 022000E | | 285 | 52 | 09 | 20 | 146 | 1967 | | 119 | 0095 | 00 | 33 | 1 | | | 0 | 8 | | 0122 |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOP CODE | TRANS. (m) | DIR. | SPEED OR FORCE | (mbs) | DRY BULB | WET BULB | VIS CODE | | | | | | | | | | |
| | | | | | | 05 | 15 | 25 | 507 | 180 | 034 | 028 | 8 | 05 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -S $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | 3 C/D/S | | | | | | |
| | | STD | 0000 | 0221 | 3386 | 2706 | 0010076 | 0000 | 14576 | 763 | | | | | | | | | | | | | |
| 146 | | OBS | 0000 | 0221 | 33857 | 2706 | | | 14576 | 763 | | | | | | | | | | | | | |
| 146 | | OBS | 0005 | 0222 | 33865 | 2707 | | | 14578 | 764 | | | | | | | | | | | | | |
| | | STD | 0010 | 0221 | 3387 | 2707 | 0010019 | 0010 | 14578 | 759 | | | | | | | | | | | | | |
| 146 | | OBS | 0010 | 0221 | 33865 | 2707 | | | 14578 | 759 | | | | | | | | | | | | | |
| | | STD | 0020 | 0221 | 3387 | 2707 | 0007485 | 0020 | 14580 | 756 | | | | | | | | | | | | | |
| 146 | | OBS | 0025 | 0221 | 33876 | 2708 | | | 14581 | 757 | | | | | | | | | | | | | |
| | | STD | 0030 | 0221 | 3389 | 2708 | 0009914 | 0030 | 14581 | 756 | | | | | | | | | | | | | |
| | | STD | 0050 | 0219 | 3389 | 2709 | 0009824 | 0050 | 14584 | 754 | | | | | | | | | | | | | |
| 146 | | OBS | 0050 | 0219 | 33891 | 2709 | | | 14584 | 754 | | | | | | | | | | | | | |

| REFERENCE CTRY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DIPSE INDEX | MARS DEN SQUARE | | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF S'MPL'S | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------------------|-----------|-----------|------------------|-------------------|-------------|-----------------|--|---|----------------|---------------------|---|--|---|---|--|----------------------|------------|-----|-----|--------------|-------------|------|---------------------|
| | | | | | | 10' | 1' | MO | DAY | HR. | | 1/10 | CRUISE NO. | | | STATION NUMBER | DIR. | HGT | PER | | SEA | TYPE | |
| 311165 | | EW | 75435N | 021150E | | 285 | 51 | 09 | 20 | 174 | 1967 | | 120 | 0037 | 00 | 36 | 1 | | | 0 | 8 | | 0123 |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOP CODE | TRANS. (m) | DIR. | SPEED OR FORCE | (mbs) | DRY BULB | WET BULB | VIS CODE | | | | | | | | | | |
| | | | | | | | 27 | 510 | 173 | 041 | 024 | 8 | 05 | | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CASST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$ | TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$ | SiO ₄ -S $\mu\text{g} \cdot \text{dl}^{-1}$ | pH | 3 C/D/S | | | | | | |
| | | STD | 0000 | 0275 | 3404 | 2716 | 0009147 | 0000 | 14602 | 754 | | | | | | | | | | | | | |
| 175 | | OBS | 0000 | 0275 | 34036 | 2716 | | | 14602 | 754 | | | | | | | | | | | | | |
| 175 | | OBS | 0005 | 0275 | 34026 | 2715 | | | 14603 | 764 | | | | | | | | | | | | | |
| | | STD | 0010 | 0274 | 3403 | 2716 | 0009195 | 0009 | 14603 | 759 | | | | | | | | | | | | | |
| 175 | | OBS | 0010 | 0274 | 34076 | 2716 | | | 14603 | 759 | | | | | | | | | | | | | |
| | | STD | 0020 | 0273 | 3403 | 2716 | 0009180 | 0018 | 14605 | 759 | | | | | | | | | | | | | |
| 175 | | OBS | 0020 | 0275 | 34031 | 2716 | | | 14605 | 755 | | | | | | | | | | | | | |
| | | STD | 0030 | 0275 | 3403 | 2716 | 0009176 | 0026 | 14606 | 760 | | | | | | | | | | | | | |
| 175 | | OBS | 0035 | 0273 | 34033 | 2716 | | | 14607 | 760 | | | | | | | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDIC. | MARSSEN 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 | | | |
| | | | | | | 10' | 1" | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT PER | SEA | | TYPE | AMT | | | |
| 311164 | | EW | 76100N | 017000E | | 287 | 67 | 09 | 21 | 037 | 1967 | | 123 | | 0293 | 03 | 31 | 21 | | | 5 | 5 | | 0126 |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO-METER (mb) | DRY BULB | WET BULB | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | |
| | | | | | | | | | 31 | 515 | 145 | 022 | 016 | 8 | 10 | | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ}^s | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S/C | | | | | | | |
| | | STD | 0000 | 0133 | 3321 | 2661 | 0014348 | 0000 | 14528 | 800 | | | | | | | | | | | | | | |
| | 037 | OBS | 0000 | 0133 | 33214 | 2661 | | | 14528 | 800 | | | | | | | | | | | | | | |
| | 037 | OBS | 0005 | 0132 | 33216 | 2661 | | | 14529 | 806 | | | | | | | | | | | | | | |
| | 037 | OBS | 0009 | 0130 | 33220 | 2662 | | | 14529 | 804 | | | | | | | | | | | | | | |
| | | STD | 0010 | 0160 | 3330 | 2666 | 0013670 | 0014 | 14543 | 796 | | | | | | | | | | | | | | |
| | | STD | 0020 | 0397 | 3403 | 2704 | 0010303 | 0026 | 14658 | 750 | | | | | | | | | | | | | | |
| | 037 | OBS | 0023 | 0446 | 34206 | 2713 | | | 14681 | 738 | | | | | | | | | | | | | | |
| | | STD | 0030 | 0487 | 3449 | 2731 | 0007786 | 0035 | 14703 | 715 | | | | | | | | | | | | | | |
| | 037 | OBS | 0046 | 0490 | 34888 | 2762 | | | 14712 | 691 | | | | | | | | | | | | | | |
| | | STD | 0050 | 0439 | 3487 | 2766 | 0004444 | 0047 | 14691 | 701 | | | | | | | | | | | | | | |
| | 037 | OBS | 0069 | 0270 | 34804 | 2778 | | | 14622 | 729 | | | | | | | | | | | | | | |
| | | STD | 0075 | 0259 | 3481 | 2779 | 0003214 | 0057 | 14618 | 728 | | | | | | | | | | | | | | |
| | 037 | OBS | 0042 | 0230 | 34812 | 2782 | | | 14608 | 723 | | | | | | | | | | | | | | |
| | | STD | 0100 | 0211 | 3481 | 2784 | 0002806 | 0065 | 14601 | 720 | | | | | | | | | | | | | | |
| | | STD | 0125 | 0172 | 3482 | 2787 | 0002465 | 0071 | 14589 | 710 | | | | | | | | | | | | | | |
| | 037 | OBS | 0138 | 0166 | 34823 | 2788 | | | 14588 | 705 | | | | | | | | | | | | | | |
| | | STD | 0150 | 0194 | 3486 | 2789 | 0002350 | 0077 | 14603 | 700 | | | | | | | | | | | | | | |
| | 037 | OBS | T0183 | 0216 | 34927 | 2792 | | | 14619 | 691 | | | | | | | | | | | | | | |
| | | STD | 0200 | 0197 | 3491 | 2792 | 0002013 | 0088 | 14613 | 691 | | | | | | | | | | | | | | |
| | | STD | 0250 | 0019 | 3486 | 2800 | 0001158 | 0096 | 14541 | 690 | | | | | | | | | | | | | | |
| | 037 | OBS | T0262 | -0050 | 34850 | 2803 | | | 14511 | 690 | | | | | | | | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDIC. | MARSSEN 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 | | | | |
| | | | | | | 10' | 1" | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT PER | SEA | | TYPE | AMT | | | | |
| 311165 | | EW | 75425N | 017470E | | 287 | 57 | 09 | 21 | 068 | 1967 | | 124 | | 0198 | 02 | 31 | 21 | | | 6 | 5 | | 0127 | |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO-METER (mb) | DRY BULB | WET BULB | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| | | | | | | | | | 05 | 09 | 21 | 515 | 145 | 040 | 028 | 8 | 09 | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ}^s | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S/C | | | | | | | | |
| | | STD | 0000 | 0392 | 3407 | 2708 | 0009914 | 0000 | 14653 | 750 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0000 | 0392 | 34073 | 2708 | | | 14653 | 750 | | | | | | | | | | | | | | | |
| | 768 | OBS | 0005 | 0392 | 34074 | 2708 | | | 14654 | 752 | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0391 | 3407 | 2708 | 0009913 | 0010 | 14654 | 751 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0010 | 0391 | 34073 | 2708 | | | 14654 | 751 | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0391 | 3408 | 2709 | 0009861 | 0020 | 14656 | 750 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0025 | 0391 | 34085 | 2709 | | | 14657 | 750 | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0433 | 3434 | 2725 | 0008341 | 0029 | 14679 | 728 | | | | | | | | | | | | | | | |
| | | STD | 0050 | 0536 | 3502 | 2767 | 0004406 | 0042 | 14733 | 672 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0050 | 0536 | 35016 | 2767 | | | 14733 | 672 | | | | | | | | | | | | | | | |
| | | STD | 0075 | 0517 | 3510 | 2775 | 0003643 | 0052 | 14731 | 674 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0075 | 0517 | 35095 | 2775 | | | 14731 | 674 | | | | | | | | | | | | | | | |
| | | STD | 0100 | 0468 | 3508 | 2780 | 0003206 | 0060 | 14715 | 678 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0100 | 0468 | 35084 | 2780 | | | 14715 | 678 | | | | | | | | | | | | | | | |
| | | STD | 0125 | 0358 | 3502 | 2787 | 0002572 | 0067 | 14672 | 683 | | | | | | | | | | | | | | | |
| | 068 | OBS | 0149 | 0302 | 34989 | 2790 | | | 14651 | 685 | | | | | | | | | | | | | | | |
| | | STD | 0150 | 0301 | 3499 | 2790 | 0002287 | 0074 | 14651 | 685 | | | | | | | | | | | | | | | |
| | 068 | OBS | T0173 | 0296 | 34979 | 2789 | | | 14653 | 683 | | | | | | | | | | | | | | | |

| REFERENCE CITY CODE | ID. NO. | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH INDIC. | MARSSEN 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 | | | | |
| | | | | | | 10' | 1" | MO | DAY | HR. 1/10 | | CRUISE NO. | STATION NUMBER | | | DIR. | HGT PER | SEA | | TYPE | AMT | | | | |
| 311165 | | EW | 75145N | 018310E | | 287 | 58 | 09 | 21 | 101 | 1967 | | 125 | | 0046 | 00 | 31 | 21 | | | 6 | 7 | | 0128 | |
| | | | | | | WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | BARO-METER (mb) | DRY BULB | WET BULB | VIS CODE | NO. OBS. DEPTHS | SPECIAL OBSERVATIONS | | | | | | | | | | |
| | | | | | | | | | 06 | 15 | 30 | 515 | 158 | 034 | 024 | 8 | 03 | | | | | | | | |
| MESSAGE TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ}^s | $\Sigma \Delta \sigma$ DYN. M. $\times 10^3$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} - \text{at/l}$ | TOTAL-P $\mu\text{g} - \text{at/l}$ | NO ₂ -N $\mu\text{g} - \text{at/l}$ | NO ₃ -N $\mu\text{g} - \text{at/l}$ | SiO ₄ -Si $\mu\text{g} - \text{at/l}$ | pH | S/C | | | | | | | | |
| | | STD | 0000 | 0225 | 3378 | 2700 | 0010712 | 0000 | 14577 | 779 | | | | | | | | | | | | | | | |
| | 101 | OBS | 0000 | 0225 | 33777 | 2700 | | | 14577 | 779 | | | | | | | | | | | | | | | |
| | 101 | OBS | 0005 | 0225 | 33781 | 2700 | | | 14578 | 780 | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0223 | 3378 | 2700 | 0010708 | 0011 | 14578 | 779 | | | | | | | | | | | | | | | |
| | 101 | OBS | 0010 | 0223 | 33776 | 2700 | | | 14578 | 779 | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0223 | 3379 | 2701 | 0010606 | 0021 | 14579 | 780 | | | | | | | | | | | | | | | |
| | 101 | OBS | 0025 | 0223 | 33791 | 2701 | | | 14580 | 780 | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0223 | 3380 | 2702 | 0010535 | 0032 | 14581 | 781 | | | | | | | | | | | | | | | |
| | 101 | OBS | 0045 | 0223 | 33810 | 2702 | | | 14584 | 780 | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | WASDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------|---------|-----------|------------------|-------------------|---------------|--------------------|----|----|------|--------------|----------|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | ' | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT. | PER. | |
| 311165 | | EW | 74470N | 019140E | 287 | 49 | 09 | 21 | 142 | 1967 | | 126 | 0100 | 01 | 32 | 1 | | 6 | 8 | 0129 |

| 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 | | | |
| | | | | 142 | 022 | 018 | 8 | 06 | |

| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-1000 | S 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 | 0152 | 3363 | 2693 | 0011302 | 0000 | 14543 | 801 | | | | | | | |
| | 142 | OBS | 0000 | 0152 | 3363 | 2693 | | | 14543 | 801 | | | | | | | |
| | 142 | OBS | 0005 | 0153 | 33627 | 2693 | | | 14544 | 804 | | | | | | | |
| | | STD | 0010 | 0151 | 3363 | 2692 | 0011289 | 0011 | 14544 | 801 | | | | | | | |
| | 142 | OBS | 0010 | 0151 | 33637 | 2693 | | | 14544 | 801 | | | | | | | |
| | | STD | 0020 | 0148 | 3365 | 2695 | 0011135 | 0023 | 14544 | 800 | | | | | | | |
| | 142 | OBS | 0025 | 0141 | 33664 | 2697 | | | 14542 | 799 | | | | | | | |
| | | STD | 0030 | 0120 | 3372 | 2703 | 0010424 | 0033 | 14539 | 796 | | | | | | | |
| | | STD | 0050 | 0061 | 3388 | 2719 | 0008872 | 0053 | 14513 | 786 | | | | | | | |
| | 142 | OBS | 0050 | 0061 | 33878 | 2719 | | | 14513 | 786 | | | | | | | |
| | | STD | 0075 | 0058 | 3403 | 2731 | 0007700 | 0073 | 14518 | 775 | | | | | | | |
| | 142 | OBS | 0085 | 0057 | 34080 | 2735 | | | 14520 | 771 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | WASDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------|---------|-----------|------------------|-------------------|---------------|--------------------|----|----|------|--------------|----------|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | ' | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT. | PER. | |
| 311165 | | EW | 74175N | 019580E | 287 | 44 | 04 | 21 | 181 | 1967 | | 127 | 0101 | 01 | 32 | 2 | | 5 | 8 | 0130 |

| 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 | | | |
| | | | | 143 | 022 | 020 | 8 | 06 | |

| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-1000 | S 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 | 016 | 3354 | 264 | 0011644 | 0000 | 14546 | 797 | | | | | | | |
| | 181 | OBS | 0030 | 0152 | 33592 | 264 | | | 14546 | 797 | | | | | | | |
| | 181 | OBS | 0005 | 0140 | 33584 | 2689 | | | 14540 | 804 | | | | | | | |
| | | STD | 0010 | 0104 | 3364 | 2693 | 0011293 | 0011 | 14550 | 743 | | | | | | | |
| | 181 | OBS | 0010 | 0104 | 33642 | 2693 | | | 14550 | 793 | | | | | | | |
| | | STD | 0020 | 0149 | 3368 | 2697 | 0010481 | 0023 | 14550 | 790 | | | | | | | |
| | 181 | OBS | 0020 | 0151 | 33707 | 2694 | | | 14547 | 789 | | | | | | | |
| | | STD | 0030 | 0124 | 3375 | 2714 | 0010253 | 0033 | 14534 | 788 | | | | | | | |
| | | STD | 0050 | 0040 | 3392 | 2723 | 0008600 | 0052 | 14518 | 783 | | | | | | | |
| | 181 | OBS | 0050 | 0040 | 33922 | 2723 | | | 14508 | 783 | | | | | | | |
| | | STD | 0075 | 0033 | 3417 | 2745 | 0006148 | 0070 | 14476 | 772 | | | | | | | |
| | 181 | OBS | 0085 | 0029 | 34276 | 2757 | | | 14465 | 767 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | WASDEN SQUARE | STATION TIME (GMT) | | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER |
|-------------|---------|-----------|------------------|-------------------|---------------|--------------------|----|----|------|--------------|----------|-----------------|-----------------------|-------------------|----------------|------|--------------|-------------|------|---------------------|
| CRUISE CODE | ID. NO. | | | | | 10' | ' | MO | | DAY | HR. 1/10 | | | CRUISE NO. | STATION NUMBER | DIR. | | HGT. | PER. | |
| 311165 | | EW | 7351N | 020450E | 286 | 30 | 04 | 21 | 222 | 1967 | | 125 | 0450 | 04 | 31 | 2 | | 5 | 8 | 0131 |

| 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 | | | |
| | | | | 141 | 020 | 023 | 8 | 12 | |

| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY-1000 | S 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 | 0535 | 3456 | 2731 | 0007752 | 0000 | 14719 | 750 | | | | | | | |
| | 222 | OBS | 0010 | 0535 | 34561 | 2731 | | | 14719 | 750 | | | | | | | |
| | 222 | OBS | 0005 | 0535 | 34562 | 2731 | | | 14720 | 726 | | | | | | | |
| | | STD | 0010 | 0534 | 3456 | 2731 | 0007783 | 0005 | 14720 | 726 | | | | | | | |
| | 222 | OBS | 0010 | 0534 | 34567 | 2731 | | | 14720 | 726 | | | | | | | |
| | | STD | 0020 | 0524 | 3474 | 2738 | 0007677 | 0015 | 14759 | 714 | | | | | | | |
| | 222 | OBS | 0024 | 0634 | 34862 | 2742 | | | 14767 | 691 | | | | | | | |
| | | STD | 0030 | 0581 | 3493 | 2754 | 0005569 | 0022 | 14747 | 687 | | | | | | | |
| | 222 | OBS | 0049 | 0463 | 35068 | 2774 | | | 14704 | 660 | | | | | | | |
| | | STD | 0051 | 0462 | 3507 | 2779 | 0004203 | 0030 | 14704 | 668 | | | | | | | |
| | 222 | OBS | 0073 | 0426 | 35043 | 2783 | | | 14692 | 674 | | | | | | | |
| | | STD | 0075 | 0421 | 3517 | 2784 | 0002804 | 0038 | 14691 | 675 | | | | | | | |
| | 222 | OBS | 0098 | 0371 | 35053 | 2784 | | | 14673 | 691 | | | | | | | |
| | | STD | 0100 | 0364 | 3505 | 2784 | 0002404 | 0044 | 14673 | 694 | | | | | | | |
| | | STD | 0125 | 0342 | 3505 | 2791 | 0002084 | 0050 | 14660 | 726 | | | | | | | |
| | 222 | OBS | 0147 | 0321 | 35050 | 2793 | | | 14660 | 739 | | | | | | | |
| | | STD | 0150 | 0314 | 3505 | 2793 | 0001494 | 0055 | 14660 | 737 | | | | | | | |
| | 222 | OBS | 0148 | 0265 | 35044 | 2796 | | | 14653 | 716 | | | | | | | |
| | | STD | 0200 | 0263 | 3504 | 2795 | 0001776 | 0065 | 14652 | 717 | | | | | | | |
| | | STD | 0250 | 0252 | 3504 | 2798 | 0001533 | 0073 | 14647 | 721 | | | | | | | |
| | 222 | OBS | 0294 | 0217 | 35036 | 2801 | | | 14640 | 722 | | | | | | | |
| | | STD | 0300 | 0216 | 3504 | 2801 | 0001281 | 0080 | 14640 | 722 | | | | | | | |
| | 222 | OBS | 0304 | 0130 | 35017 | 2806 | | | 14618 | 712 | | | | | | | |
| | | STD | 0430 | 0129 | 3502 | 2816 | 0000763 | 0091 | 14618 | 712 | | | | | | | |
| | 222 | OBS | 0450 | 0096 | 34998 | 2808 | | | 14614 | 710 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | DEPTH INDEX | 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 |
| 311165 | | EW | 73278N | 021160E | | 286 | 31 | 09 | 22 | 1020 | 1967 | | 129 | 0471 | 04 | 27 | 2 | | | 5 | 8 | 0132 |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | |
| | | | | | | | | | 26 | 508 | 106 | 055 | 053 | 8 | 12 | | | | | | | |

| MESSNGR TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^2$ | 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 | 0554 | 3448 | 2722 | 0008577 | 0000 | 14725 | 744 | | | | | | | |
| 020 | | OBS | 0000 | 0554 | 34480 | 2722 | | | 14725 | 744 | | | | | | | |
| 020 | | OBS | 0005 | 0553 | 34483 | 2722 | | | 14726 | 745 | | | | | | | |
| | | STD | 0010 | 0554 | 3449 | 2723 | 0008515 | 0009 | 14727 | 750 | | | | | | | |
| 020 | | OBS | 0010 | 0554 | 34490 | 2723 | | | 14727 | 750 | | | | | | | |
| | | STD | 0020 | 0565 | 3451 | 2723 | 0008518 | 0017 | 14734 | 744 | | | | | | | |
| 020 | | OBS | 0024 | 0570 | 34536 | 2725 | | | 14737 | 740 | | | | | | | |
| | | STD | 0030 | 0571 | 3470 | 2737 | 0007171 | 0025 | 14740 | 721 | | | | | | | |
| 020 | | OBS | 0049 | 0575 | 35053 | 2765 | | | 14750 | 684 | | | | | | | |
| | | STD | 0050 | 0574 | 3506 | 2765 | 0004541 | 0037 | 14749 | 684 | | | | | | | |
| 020 | | OBS | 0074 | 0542 | 35097 | 2772 | | | 14741 | 689 | | | | | | | |
| | | STD | 0075 | 0540 | 3510 | 2773 | 0003895 | 0047 | 14740 | 689 | | | | | | | |
| 020 | | OBS | 0099 | 0497 | 35084 | 2777 | | | 14726 | 696 | | | | | | | |
| | | STD | 0100 | 0496 | 3508 | 2776 | 0003548 | 0056 | 14726 | 696 | | | | | | | |
| | | STD | 0125 | 0458 | 3508 | 2781 | 0003156 | 0065 | 14715 | 703 | | | | | | | |
| 020 | | OBS | 0147 | 0422 | 35067 | 2784 | | | 14703 | 708 | | | | | | | |
| | | STD | 0150 | 0415 | 3506 | 2784 | 0002873 | 0072 | 14700 | 709 | | | | | | | |
| 020 | | OBS | T0199 | 0325 | 35025 | 2790 | | | 14670 | 721 | | | | | | | |
| | | STD | 0200 | 0324 | 3503 | 2790 | 0002270 | 0085 | 14670 | 721 | | | | | | | |
| | | STD | 0250 | 0279 | 3503 | 2745 | 0001873 | 0096 | 14659 | 730 | | | | | | | |
| 020 | | OBS | T0296 | 0240 | 35029 | 2798 | | | 14649 | 738 | | | | | | | |
| | | STD | 0300 | 0238 | 3503 | 2798 | 0001524 | 0104 | 14649 | 738 | | | | | | | |
| 020 | | OBS | T0397 | 0159 | 35017 | 2804 | | | 14631 | 735 | | | | | | | |
| | | STD | 0400 | 0156 | 3502 | 2804 | 0000983 | 0117 | 14630 | 735 | | | | | | | |
| 020 | | OBS | T0450 | 0099 | 35004 | 2807 | | | 14612 | 734 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE * 1/10 | LONGITUDE * 1/10 | DEPTH INDEX | 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 |
| 311165 | | EW | 72550N | 021560E | | 286 | 21 | 09 | 22 | 062 | 1967 | | 130 | 0436 | 04 | 26 | 2 | | | 6 | 8 | 0133 | |
| | | | | | | WATER | | WIND | | BARO- METER | | AIR TEMP. °C | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | |
| | | | | | | COLOR CODE | TRANS. (m) | DIR. | SPEED OR FORCE | METER (mb) | DRY BULB | WET BULB | VIS. CODE | | | | | | | | | | |
| | | | | | | | | | 06 | 14 | 27 | 503 | 100 | 065 | 052 | 8 | 11 | | | | | | |

| MESSNGR TIME HR 1/10 | CAS NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | $\Sigma \Delta D$ DYN. M. $\times 10^2$ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P $\mu\text{g} \cdot \text{at/l}$ | TOTAL-P $\mu\text{g} \cdot \text{at/l}$ | NO ₂ -N $\mu\text{g} \cdot \text{at/l}$ | NO ₃ -N $\mu\text{g} \cdot \text{at/l}$ | SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$ | pH | S C C |
|----------------------------|------------|--------------|-----------|------|-------|---------|---|---|-------------------|---------------------|---|--|---|---|---|----|-------------|
| | | STD | 0000 | 0743 | 3475 | 2718 | 0008931 | 0000 | 14804 | 706 | | | | | | | |
| 062 | | OBS | 0000 | 0743 | 34752 | 2718 | | | 14804 | 706 | | | | | | | |
| 062 | | OBS | 0005 | 0735 | 34742 | 2718 | | | 14803 | 712 | | | | | | | |
| | | STD | 0010 | 0739 | 3474 | 2718 | 0008975 | 0009 | 14804 | 712 | | | | | | | |
| 062 | | OBS | 0010 | 0739 | 34741 | 2718 | | | 14804 | 712 | | | | | | | |
| | | STD | 0020 | 0736 | 3474 | 2718 | 0008992 | 0018 | 14805 | 712 | | | | | | | |
| 062 | | OBS | 0025 | 0735 | 34733 | 2718 | | | 14805 | 710 | | | | | | | |
| | | STD | 0030 | 0698 | 3479 | 2728 | 0008092 | 0026 | 14792 | 702 | | | | | | | |
| | | STD | 0050 | 0608 | 3497 | 2754 | 0005628 | 0040 | 14762 | 680 | | | | | | | |
| 062 | | OBS | 0051 | 0606 | 34983 | 2755 | | | 14761 | 679 | | | | | | | |
| | | STD | 0075 | 0630 | 3517 | 2767 | 0004448 | 0053 | 14777 | 674 | | | | | | | |
| 062 | | OBS | 0076 | 0631 | 35173 | 2767 | | | 14778 | 674 | | | | | | | |
| | | STD | 0100 | 0584 | 3514 | 2770 | 0004135 | 0064 | 14763 | 678 | | | | | | | |
| 062 | | OBS | 0102 | 0580 | 35138 | 2771 | | | 14761 | 678 | | | | | | | |
| | | STD | 0125 | 0546 | 3513 | 2774 | 0003785 | 0073 | 14751 | 686 | | | | | | | |
| | | STD | 0150 | 0507 | 3512 | 2778 | 0003436 | 0082 | 14739 | 694 | | | | | | | |
| 062 | | OBS | 0152 | 0504 | 35117 | 2778 | | | 14738 | 695 | | | | | | | |
| | | STD | 0200 | 0426 | 3507 | 2784 | 0002944 | 0098 | 14713 | 709 | | | | | | | |
| 062 | | OBS | T0203 | 0421 | 35070 | 2784 | | | 14712 | 710 | | | | | | | |
| | | STD | 0250 | 0339 | 3505 | 2791 | 0002270 | 0111 | 14685 | 726 | | | | | | | |
| | | STD | 0300 | 0264 | 3504 | 2797 | 0001674 | 0121 | 14661 | 736 | | | | | | | |
| 062 | | OBS | T0306 | 0256 | 35038 | 2798 | | | 14658 | 737 | | | | | | | |
| | | STD | 0400 | 0150 | 3502 | 2805 | 0000905 | 0134 | 14627 | 735 | | | | | | | |
| 062 | | OBS | T0427 | 0127 | 35011 | 2806 | | | 14621 | 730 | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH 1/10 | MARSON SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | |
|-----------------------|----------|------------|------------------|-------------------|---------------|----------------|--|---------------------------------|----------------|---------------------|----------------------------|----------------------|----------------------------|----------------------------|------------------------------|----------------------|---------|-----|--------------|-------------|------|---------------------|-----|--|--|--|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | PER | | SEA | TYPE | | AMT | | | | |
| 311165 | EW | | 7227 N | 022320E | 286 | 22 | 09 | 22 | 101 | 1967 | 131 | 0333 | 03 | 29 | 2 | | | 8 | 8 | | | 0134 | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OF FOCAL | | METER (mba) | | DRY BULB | | WET BULB | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| 06 | | 16 | | 27 | | 3 | | 098 | | 073 | | 061 | | 7 | | 10 | | | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | 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. CODE | | | | | | | | | | |
| | | STD | 0000 | 0821 | 3479 | 2710 | 0009715 | 0000 | 14835 | 690 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0000 | 0821 | 34794 | 2710 | | | 14835 | 690 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0005 | 0820 | 34791 | 2710 | | | 14835 | 693 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0818 | 3479 | 2710 | 0009698 | 0010 | 14835 | 693 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0010 | 0818 | 34793 | 2710 | | | 14835 | 693 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0817 | 3479 | 2711 | 0009701 | 0019 | 14836 | 703 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0025 | 0814 | 34793 | 2711 | | | 14836 | 704 | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0813 | 3481 | 2713 | 0009536 | 0024 | 14837 | 697 | | | | | | | | | | | | | | | | | |
| | | STD | 0040 | 0775 | 3484 | 2725 | 0008428 | 0047 | 14826 | 677 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0050 | 0775 | 34891 | 2725 | | | 14826 | 677 | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | 0547 | 3503 | 2753 | 0005724 | 0065 | 14782 | 674 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0075 | 0647 | 35028 | 2753 | | | 14782 | 674 | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | 0617 | 3505 | 2759 | 0005194 | 0078 | 14775 | 674 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0100 | 0617 | 35053 | 2759 | | | 14775 | 674 | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | 0556 | 3508 | 2769 | 0004278 | 0090 | 14755 | 677 | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | 0510 | 3509 | 2776 | 0004680 | 0100 | 14740 | 682 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0150 | 0510 | 35092 | 2776 | | | 14740 | 682 | | | | | | | | | | | | | | | | | |
| | | STD | 0200 | 0465 | 3504 | 2781 | 0003229 | 0117 | 14730 | 696 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0200 | 0465 | 35042 | 2781 | | | 14729 | 697 | | | | | | | | | | | | | | | | | |
| | | STD | 0250 | 0413 | 3508 | 2786 | 0002605 | 0132 | 14716 | 700 | | | | | | | | | | | | | | | | | |
| | | STD | 0300 | 0345 | 3506 | 2790 | 0002397 | 0145 | 14700 | 703 | | | | | | | | | | | | | | | | | |
| | 101 | OBS | 0310 | 0345 | 35051 | 2791 | | | 14696 | 704 | | | | | | | | | | | | | | | | | |

| REFERENCE | | SHIP CODE | LATITUDE 1/10 | LONGITUDE 1/10 | DEPTH 1/10 | MARSON SQUARE | | STATION TIME (GMT) | | YEAR | ORIGINATOR'S | | DEPTH TO BOTTOM | MAX. DEPTH OF SAMPLES | WAVE OBSERVATIONS | | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | | | | |
|-----------------------|----------|------------|------------------|-------------------|---------------|----------------|--|---------------------------------|----------------|---------------------|----------------------------|----------------------|----------------------------|----------------------------|------------------------------|----------------------|---------|-----|--------------|-------------|------|---------------------|-----|--|--|--|--|
| CRUISE CODE | ID. NO. | | | | | 10' | 1' | MO | DAY | | HR./10 | CRUISE NO. | | | STATION NUMBER | DIR | HGT | PER | | SEA | TYPE | | AMT | | | | |
| 311165 | EW | | 7154 N | 02311 E | 286 | 22 | 09 | 22 | 101 | 1967 | 131 | 0333 | 03 | 25 | 1 | | | 8 | 8 | | | 0135 | | | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | | | | |
| COLOR CODE | | TRANS. (m) | | DIR. | | SPEED OF FOCAL | | METER (mba) | | DRY BULB | | WET BULB | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | |
| 24 | | 3 | | 7 | | 6 | | 6 | | 14 | | 7 | | 14 | | | | | | | | | | | | | |
| MESSAGE TIME HR. 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME ANOMALY- σ_{θ} | 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. CODE | | | | | | | | | | |
| | | STD | 0000 | 0496 | 3457 | 2691 | 0012474 | 00 | 14860 | 694 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0000 | 0496 | 34572 | 2691 | | | 14860 | 694 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0005 | 0497 | 34576 | 2691 | | | 14861 | 694 | | | | | | | | | | | | | | | | | |
| | | STD | 0010 | 0493 | 3457 | 2691 | 0012354 | 0010 | 14856 | 683 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0010 | 0493 | 34575 | 2691 | | | 14856 | 683 | | | | | | | | | | | | | | | | | |
| | | STD | 0020 | 0495 | 3457 | 2692 | 0012374 | 0015 | 14854 | 684 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0020 | 0495 | 34572 | 2692 | | | 14854 | 684 | | | | | | | | | | | | | | | | | |
| | | STD | 0030 | 0487 | 3457 | 2692 | 0012388 | 0037 | 14853 | 684 | | | | | | | | | | | | | | | | | |
| | | STD | 0040 | 0442 | 3457 | 2701 | 0012355 | 0044 | 14844 | 686 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0040 | 0442 | 34572 | 2701 | | | 14844 | 686 | | | | | | | | | | | | | | | | | |
| | | STD | 0075 | 0733 | 34427 | 2734 | 0007774 | 0044 | 14817 | 686 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0075 | 0733 | 34427 | 2734 | | | 14817 | 686 | | | | | | | | | | | | | | | | | |
| | | STD | 0100 | 0548 | 3501 | 2745 | 0005998 | 0100 | 14806 | 657 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0100 | 0548 | 3501 | 2745 | | | 14806 | 657 | | | | | | | | | | | | | | | | | |
| | | STD | 0125 | 0677 | 3504 | 2751 | 0005105 | 0116 | 14801 | 664 | | | | | | | | | | | | | | | | | |
| | | STD | 0150 | 0651 | 3507 | 2755 | 0004979 | 0130 | 14797 | 667 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0150 | 0651 | 3507 | 2755 | | | 14797 | 667 | | | | | | | | | | | | | | | | | |
| | | STD | 0250 | 0509 | 3507 | 2774 | 0003557 | 0177 | 14757 | 694 | | | | | | | | | | | | | | | | | |
| | 143 | OBS | 0250 | 0509 | 3507 | 2774 | | | 14757 | 694 | | | | | | | | | | | | | | | | | |
| | | STD | 0291 | 0442 | 35014 | 2779 | | | 14731 | 692 | | | | | | | | | | | | | | | | | |

| 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 | | | WEATHER CODE | CLOUD CODES | | NODC STATION NUMBER | | |
|------------|---------|-------------|------------------|-------------------|----------------|-------------------|----|--------------------|-----|-----------------|------|----------------------|----------------|-----------------|-----------------------|-------------------|-----|-----|--------------|-------------|------|---------------------|-----|--|
| CTRY CODE | ID. NO. | | | | | 10" | 1" | MO | DAY | HR./10 | | CRUISE NO. | STATION NUMBER | | | DIR | HGT | PER | | SEA | TYPE | | AMT | |
| 311 | 165 | EW | 71202N | 024058E | 286 | 14 | 09 | 22 | 199 | 1967 | 133 | 0318 | 02 | 26 | 2 | | | 5 | 8 | | 0136 | | | |
| WATER | | WIND | | BARO-METER | | AIR TEMP. °C | | VIS. CODE | | NO. OBS. DEPTHS | | SPECIAL OBSERVATIONS | | | | | | | | | | | | |
| COLOR CODE | | TRANS. DIR. | | SPEED OR FORCE | | DRY BULB WET BULB | | | | | | | | | | | | | | | | | | |
| | | | | 28 | | 508 | | 052 | | 047 | | 054 | | 10 | | | | | | | | | | |

| MISSING TIME HR 1/10 | CAST NO. | CARD TYPE | DEPTH (m) | T °C | S ‰ | SIGMA-T | SPECIFIC VOLUME AND MALT-20° | S Δ D DYN. M. x 10 ³ | SOUND VELOCITY | O ₂ ml/l | PO ₄ -P μg - 01/l | TOTAL-P μg - 01/l | NO ₂ -N μg - 01/l | NO ₃ -N μg - 01/l | SiO ₄ -Si μg - 01/l | PH | S. C.C. |
|----------------------|----------|-----------|-----------|------|-------|---------|------------------------------|---------------------------------|----------------|---------------------|------------------------------|-------------------|------------------------------|------------------------------|--------------------------------|----|---------|
| | | STD | 0000 | 0934 | 3407 | 2635 | 0016807 | 0000 | 14868 | 684 | | | | | | | |
| 199 | | OBS | 0000 | 0934 | 34066 | 2635 | | | 14868 | 684 | | | | | | | |
| 199 | | OBS | 0004 | 0935 | 34066 | 2635 | | | 14869 | 686 | | | | | | | |
| 199 | | OBS | 0008 | 0934 | 34070 | 2636 | | | 14869 | 684 | | | | | | | |
| | | STD | 0010 | 0932 | 3413 | 2641 | 0016321 | 0017 | 14869 | 684 | | | | | | | |
| | | STD | 0020 | 0925 | 3435 | 2659 | 0014603 | 0032 | 14871 | 681 | | | | | | | |
| 199 | | OBS | 0020 | 0925 | 34350 | 2659 | | | 14871 | 681 | | | | | | | |
| | | STD | 0030 | 0919 | 3444 | 2667 | 0013864 | 0046 | 14872 | 677 | | | | | | | |
| 199 | | OBS | 0040 | 0913 | 34504 | 2673 | | | 14872 | 672 | | | | | | | |
| | | STD | 0050 | 0836 | 3453 | 2687 | 0011986 | 0072 | 14845 | 664 | | | | | | | |
| 199 | | OBS | 0059 | 0786 | 34583 | 2699 | | | 14828 | 659 | | | | | | | |
| | | STD | 0075 | 0747 | 3474 | 2717 | 0009202 | 0094 | 14818 | 653 | | | | | | | |
| 199 | | OBS | 0079 | 0739 | 34772 | 2720 | | | 14816 | 652 | | | | | | | |
| | | STD | 0100 | 0720 | 3497 | 2739 | 0007164 | 0119 | 14814 | 658 | | | | | | | |
| 199 | | OBS | 0114 | 0704 | 35061 | 2748 | | | 14812 | 661 | | | | | | | |
| | | STD | 0125 | 0687 | 3508 | 2752 | 0005940 | 0135 | 14807 | 663 | | | | | | | |
| 199 | | OBS | T0146 | 0655 | 35114 | 2759 | | | 14799 | 666 | | | | | | | |
| | | STD | 0150 | 0652 | 3512 | 2760 | 0005257 | 0144 | 14798 | 666 | | | | | | | |
| | | STD | 0200 | 0595 | 3513 | 2768 | 0004488 | 0174 | 14783 | 668 | | | | | | | |
| 199 | | OBS | T0243 | 0558 | 35143 | 2774 | | | 14776 | 669 | | | | | | | |

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