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OCEANOGRAPHIC OBSERVATIONS IN THE KARA
AND EASTERN BARENTS SEAS

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OCEANOGRAPHIC OBSERVATIONS IN THE KARA AND EASTERN BARENTS SEAS

Andrew W. Garcia

WASHINGTON, D.C.

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 Vilkitskiiy 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 Nordenskiöld, (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 sigma-t are nearly vertical indicating the density is salinity controlled. Therefore, the sigma-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 discrete 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). Preobrozhen'skiy 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 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 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 34. Vertical Distribution of Salinity, 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 46. Vertical Distribution of Salinity, Stations 76 through 82.

Figure 47. Vertical Distribution of Oxygen, Stations 76 through 82.

Figure 48. Vertical Distribution of Temperature, 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 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	DATE MO DAY HR/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER
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COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P µg - dl/l	TOTAL-P µg - dl/l	ND ₂ -N µg - dl/l	ND ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CCT					
		STD	0000	0553	3464	2735	0007360	0000	14727	738												
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	151	OBS	0005	0541	34635	2736			14723	746												
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	151	OBS	0025	0471	34767	2755			14699	760												
		STD	0030	0403	3480	2765	0004580	0018	14672	750												
		STD	0050	0214	3491	2791	0002100	0025	14596	721												
	151	OBS	0050	0214	34907	2791			14596	721												
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	151	OBS	0075	0170	34945	2797			14581	712												
		STD	0100	0178	3498	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	DATE MO DAY HR/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		HODC STATION NUMBER
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		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS CODE	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
06	14	00	500	024	072	061	4	10														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P pg - dl/l	TOTAL-P pg - dl/l	ND ₂ -N ug - dl/l	ND ₃ -N ug - dl/l	SiO ₄ -Si ug - dl/l	pH	3 CCT					
		STD	0000	0587	3486	2748	0006122	0000	14744	715												
095		OBS	0000	0587	34860	2748			14744	715												
095		OBS	0005	0564	34890	2751			14744	717												
		STD	0010	0582	3490	2752	0005800	0006	14744	712												
095		OBS	0010	0582	34897	2752			14744	712												
		STD	0020	0525	3496	2764	0004675	0011	14723	704												
		STD	0030	0473	3500	2773	0003809	0015	14704	696												
095		OBS	0034	0454	35016	2776			14697	693												
		STD	0050	0380	3504	2786	0002567	0022	14669	708												
095		OBS	0058	0356	35045	2789			14660	713												
		STD	0075	0344	3505	2791	0002137	0028	14658	714												
095		OBS	0082	0338	35053	2792			14657	714												
		STD	0100	0316	3506	2794	0001673	0033	14650	710												
095		OBS	0107	0309	35056	2794			14648	709												
		STD	0125	0297	3506	2795	0001727	0037	14646	708												
		STD	0150	0278	3506	2797	0001582	0041	14642	707												
095		OBS	0155	0274	35055	2797			14641	707												
		STD	0200	0231	3505	2801	0001238	0048	14630	704												
095		OBS	0205	0223	35050	2801			14627	704												
		STD	0250	0114	3501	2807	0000657	0053	14586	704												
095		OBS	T0282	0001	34971	2810			14540	704												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311165	ED		76540N	045550E		284	65	08	19	039	1967		003		0272	02	99	1		47	X 9		0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB											
						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-σ _t		Σ Δ ρ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C				
		STD	0000	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	0008547		0020		14554	809											
	040	OBS	0024	0159	34105	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	766											
	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	752											
	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	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	MARSEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
311165	ED		77218N	059486E		283	79	08	19	197	1967		004		0288	02	99	2			10	X 9		0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB												
						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- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S 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	0006646		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		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DUTY OFFICER	MARSEN 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	ED	77276N	075280E		281	75	08	20	123	1967		005		0227	02	00	0			10	X	9	0005
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																	
06	13	00	500	075	017	017	6	09																
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C						
		STD	0000	-0081	3129	2517	0028054		0000	14404	877													
124		OBS	0000	-0081	31292	2517				14404	877													
124		OBS	0005	-0082	31293	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	2790	0002094		0058	14420	784													
124		OBS	0051	-0165	34645	2791				14420	783													
		STD	0075	-0164	3472	2796	0001510		0063	14425	781													
124		OBS	0076	-0164	34718	2797				14425	781													
		STD	0100	-0155	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	0000431		0071	14447	769													
124		OBS	0153	-0146	34809	2803				14448	768													
		STD	0200	-0135	3485	2806	0000517		0075	14462	753													
124		OBS	T0204	-0134	34855	2807				14463	751													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165	ED	78338N	085220E	280	85	08	21	083	1967		006		0086	01	00	0				6	2		0006
		WATER			WIND			BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
05	12	33	503	140	022	011	6	00															
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C						
		STD	0000	-0165	3193	2570	0022978	0000	14372	923													
084		OBS	0000	-0168	31926	2570			14372	923													
084		OBS	0005	-0173	32541	2620			14379	928													
		STD	0010	-0174	3254	2620	0016223	0021	14379	930													
084		OBS	0010	-0174	32541	2620			14379	930													
		STD	0020	-0175	3288	2648	0015606	0038	14385	879													
084		OBS	0025	-0175	33072	2663			14389	855													
		STD	0030	-0173	3340	2690	0011604	0051	14395	824													
		STD	0050	-0169	3430	2762	0004722	0067	14413	745													
084		OBS	0050	-0160	34296	2762			14413	745													
		STD	0075	-0169	3442	2773	0003741	0078	14419	743													
084		OBS	0075	-0169	34422	2773			14419	743													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT				
311165	EO		77498N	087100E		280	77	08	23	036	1967		007		0132	01	00	0			5 6		0007				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB									05	09	30	S05	170	000	-006	8	08			
				05	09	30	S05	170	000	-006	8	08															
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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 1/10	LONGITUDE 1/10	DEPT INCH	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
311165	EO		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	S08	225	022	011	7	09
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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	-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	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			CLOUD CODES	WATER CODE	NOOC STATION NUMBER
					10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA			
311165	ED	78400N	071180E	281	81	08 25 085	1967		009		0484	05	00	0		70	6 8	0009
				WATER		WIND		BARO-METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
COLOR CODE		TRANS. (m)	DIR.	TRANS. (m)	DIR.	TRANS. (m)	DIR.		DRY BULB	WET BULB								
06		11	27	510	301					7		12						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C	
		STD	0000	-0130	3167	2549	0025048	0000	14386	885								
	086	OBS	0000	-0130	31667	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	766								
		STD	0075	-0173	3457	2785	0002595	0056	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	0150	-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	0296	-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	0402	-0094	34930	2811			14515	746								
	086	OBS	0472	-0103	34962	2814			14523	737								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT BUOY	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			CLOUD CODES	WATER CODE	NOOC STATION NUMBER		
CRUISE CODE	IO. NO.					10"	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.				HGT	PER
311165	ED		80250N	072190E		929	02 08	26 065	1967		010		0556	05	00	0		05	9 8		0010	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB															
06		11	00	500	209	006	006	5	12													
MISSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH					
		STD	0000	-0164	3107	2501			0029548	0000	14362	931										
066		OBS	0000	-0164	31074	2501					14362	931										
066		OBS	0005	-0176	32555	2621					14377	927										
		STD	0010	-0176	3258	2623			0017919	0024	14379	924										
066		OBS	0010	-0176	32580	2623					14379	924										
		STD	0020	-0175	3264	2628			0017489	0041	14381	931										
066		OBS	0025	-0175	32663	2630					14383	934										
		STD	0030	-0176	3301	2658			0014595	0057	14388	915										
		STD	0050	-0181	3400	2739			0006948	0079	14403	852										
066		OBS	0050	-0181	34002	2739					14403	852										
		STD	0075	-0185	3436	2768			0004205	0093	14410	797										
066		OBS	0075	-0185	34356	2768					14410	797										
		STD	0100	-0174	3451	2780			0003016	0102	14422	776										
066		OBS	0100	-0174	34513	2780					14422	776										
		STD	0125	-0122	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	3479	2801			0001021	0129	14477	764										
		STD	0300	-0113	3483	2804			0000728	0133	14488	758										
066		OBS	0300	-0113	34829	2804					14488	758										
		STD	0400	-0094	3492	2810			0000108	0138	14515	742										
066		OBS	T0400	-0094	34918	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 INCHES	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
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. 1m	DIR.	SPEED OF FORCE	MBAR	MBAR	DRY BULB	WET BULB											
									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-X10 ³	$\Sigma \Delta \sigma$ 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	-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	0026	-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	734							
		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 CTRY CODE	SHIP IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
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. 1m	DIR.	SPEED OF FORCE	MBAR	MBAR	DRY BULB	WET BULB									
									06	14	00	500	258	039	006	7	10					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	$\Sigma \Delta \sigma$ 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	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							
		STD	0150	-0170	3461	2788	0002257	0080	14433	736							
	150	OBS	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 CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER																																									
						10"	1"	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT																																								
311165		EW	72090N	057527E	283 27 08 31 165					1967		002	0245	02	09	2				6 8		0013																																									
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td colspan="2">BARO- METER</td><td colspan="2">AIR TEMP. °C</td><td colspan="2">VIS. CODE</td><td colspan="2">NO. OBS. DEPTHS</td><td colspan="2">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>IMB</td><td>IMB</td><td>DRY BULB</td><td>WET BULB</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>03</td><td>505</td><td>256</td><td>039</td><td>022</td><td>7</td><td>09</td><td></td><td></td></tr></table>																							WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	IMB	IMB	DRY BULB	WET BULB											03	505	256	039	022	7	09		
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																																																			
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	IMB	IMB	DRY BULB	WET BULB																																																								
				03	505	256	039	022	7	09																																																					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. 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	STATION NUMBER																																														
		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			14416	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	34722	2797				14450																																																					

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS 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																												
CITY 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																											
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td rowspan="2">BARO- METER mmHg</td><td colspan="2">AIR TEMP. °C</td><td rowspan="2">VIS. CODE</td><td rowspan="2">NO. OBS. DEPTHS</td><td rowspan="2">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. UNIT</td><td>DIR.</td><td>SPEED OR FORCE</td><td>DRY BULB</td><td>WET BULB</td></tr><tr><td></td><td></td><td></td><td></td><td>02</td><td>507</td><td>253</td><td>046</td><td>031</td><td>7</td><td>07</td></tr></table>																								WATER		WIND		BARO- METER mmHg	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB					02	507	253	046	031	7	07
WATER		WIND		BARO- METER mmHg	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																												
				02	507	253	046	031	7	07																																								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. 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	STATION NUMBER																																	
		STD	0000	0717	2984	2337	0045242	0000	14730	715																																								
	217	OBS	0000	0717	29842	2337			14730	715																																								
	217	OBS	0005	0716	29842	2337			14730	716																																								
		STD	0010	0721	2995	2345	0044486	0045	14734	720																																								
	217	OBS	0010	0721	29951	2345			14734	720																																								
		STD	0020	0283	3286	2622	0018113	0076	14593	780																																								
	217	OBS	0025	0126	33854	2713			14536	601																																								
		STD	0030	0086	3394	2722	0008544	0089	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	0130	-0124	34540	2791			14451	778																																								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR 1/10	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311165		EW	71400N	060387E	282	10	09	01	014	1967		004	0072	01	00	0				6	6	0015
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								21			502	271					047	028	7	05		
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DTN. 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	STATION NUMBER		
		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		0041970		0046	14719		726									
	014	OBS	0010	0673	30209	2371					14719		726									
		STD	0020	0072	3267	2621		0016133		0076	14497		802									
	014	OBS	0025	-0153	33622	2707					14407		829									
		STD	0030	-0153	3372	2716		0005174		0090	14409		826									
		STD	0050	-0151	3413	2748		0006052		0105	14419		815									
	014	OBS	0065	-0150	34433	2773					14426		803									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	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 (mb)	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	08								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C									
		STD	0000	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	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		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	71090N	063240E			282	13	09	01	078	1967	006	0146	01	00	0				6	6	0017				
						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														
						10	10	10	505	284	044	036	8	08												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S 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	851																
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																
		STD	0125	-0163	3447	2776	0003365	0189	14431	731																
077		OBS	10141	-0161	34531	2781			14435	721																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT										
311165	EW	71430N	066290E			282	16	09	01	135	1967		007	0119	01	06	2				5	8		0018								
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																				
												08					503	290	042	032	8	07										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	SiO ₄ -Si $\mu g - \text{dl/l}$	pH	S 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	0059179		0061		14590	767																				
135		OBS	0010	0444	27609	2191					14590	767																				
		STD	0020	0015	3126	2511	0028625		0105		14451	866																				
135		OBS	0025	-0129	32542	2619					14403	884																				
		STD	0030	-0134	3276	2637	0016615		0127		14404	846																				
		STD	0050	-0138	3350	2697	0010897		0155		14416	743																				
135		OBS	0050	-0138	33502	2697					14416	743																				
		STD	0075	-0101	3415	2749	0006040		0176		14447	728																				
138		OBS	0075	-0101	34150	2749					14447	728																				
		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	DEPTH MOUSE	MARSOEN SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SLA		TYPE	AMT		
311165	EW		72013N	065055E	282	25	09	01	167	1967		008		0161	01	00	1				5	8		0019
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB												
									11	513	288	U40	Q23	8	08									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?		Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH							
		STD	0000	0476	2726	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		0062	14602	774													
167		OBS	0010	0481	27300	2163				14602	774													
		STD	0020	0044	3100	2489	0050739		0108	14461	900													
167		OBS	0025	-0105	32288	2598				14411	933													
		STD	0030	-0126	3254	2619	0016325		0133	14405	898													
167		OBS	0049	-0170	33307	2682				14398	804													
		STD	0050	-0169	3333	2684	0012137		0163	14399	604													
167		OBS	0074	-0147	33867	2727				14421	772													
		STD	0075	-0145	3389	2729	0007687		0188	14423	760													
167		OBS	0098	-0114	34309	2762				14447	657													
		STD	0100	-0115	3431	2762	0004726		0204	14447	656													
		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	DEPTH MOUSE	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PLS	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DR	NGT	PER		SEA	TYPE		AMT	
311165	EW		72150N	063450E		282	23	09	01	201	1967		009		0033	01	15	2			5	8	0020	
						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	510	297	U49	U31	7	00									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-2107		Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₂ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH							
		STD	0000	0488	2644	2095	0068390		0000	14592	760													
201		OBS	0000	0488	26443	2095				14592	760													
201		OBS	0005	0488	26441	2095				14592	776													
		STD	0010	0478	2791	2211	0057236		0063	14606	773													
201		OBS	0010	0478	27936	2211				14606	773													
		STD	0020	0031	3135	2517	0026006		0105	14400	692													
201		OBS	0025	-0123	32573	2622				14406	923													
		STD	0030	-0136	3278	2639	0016450		0128	14404	889													
		STD	0050	-0170	3347	2696	0011059		0155	14401	760													
201		OBS	0051	-0171	33497	2698				14401	764													
		STD	0075	-0168	3400	2738	0006980		0178	14413	756													
201		OBS	T0087	-0149	34132	2749				14426	745													

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD	NODC			
CTRY CODE	ID. NO.	° 1/10	° 1/10	MOUSE	SQUARE	10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	TO BOTTOM	DEPTH OF S'APLS	DIR.	HGT	PER	SEA	THER CODE	TYPE	AMT	STATION NUMBER	
311165	EW	72314N	062177E		282	22	09	01	229	1967		010		0031	01	15	2				6	8		0021
						WATER		WIND		BARO-		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB												
									24	511	277	046	U34	7	06									
MISSING TIME OF HR 1/10	CAS. NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-2107		Σ Δ D OTN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₂ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH							
		STD	0000	0546	2811	2221	0050314		0000	14638	753													
229		OBS	0000	0546	28114	2221				14630	753													
229		OBS	0005	0556	28616	2259				14649	757													
		STD	0010	0611	2981	2347	0044254		0050	14666	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	930													
		STD	0050	-0162	3403	2741	0006781		0115	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		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
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		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 (mba)	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	051	034	8	07							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	Si O ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S 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	732												
016		OBS	0010	0307	31822	2537			14588	732												
		STD	0020	-0017	3320	2668	0013657	0053	14463	810												
016		OBS	0026	-0144	33784	2720			14413	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		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	
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	73030N	059272E		283	39	09	02	048	1967	012		0364	03	15	2			7 8		0023	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						06	24	14	S10	268	055	038	8	11									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	Si O ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S 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	908													
049		OBS	0010	-0032	33638	2704			14461	908													
		STD	0020	-0128	3392	2731	0007738	0028	14422	885													
049		OBS	0025	-0161	34030	2741			14409	880													
		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	818													
049		OBS	0075	-0173	34339	2766			14416	818													
		STD	0100	-0178	3444	2774	0003572	0069	14419	794													
049		OBS	0100	-0178	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	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER												
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT													
31	1165	EW	73170N	058000E		283	38	09	02	080		1967		013		0291	03	12	2				7	8			0024									
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																				
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																									
						07	19	12	S09	240	064	046	7												10											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S CCT																		
		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	0018857		0023	14485	900																									
	080	OBS	0010	0054	32563	2614				14485	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	783																									
	080	OBS	0101	-0176	34479	2777				14421	782																									
		STD	0125	-0175	3453	2782	0002670		0082	14420	779																									
		STD	0150	-0173	3458	2786	0002477		0088	14431	766																									
	080	OBS	0152	-0173	34584	2786				14432	765																									
		STD	0200	-0167	3467	2793	0001780		0099	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	666																									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	1165	EW	74060N	059510E		283	49	09	02	140		1967		014		0260	02	16	2				5	8	0025			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																	
						06	19	12	S10	235	038	033	7	10														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S CCT										
		STD	0000	0140	3173	2542	0025702		0000	14511	855																	
	140	OBS	0000	0140	31727	2542				14511	855																	
	140	OBS	0005	0130	31816	2549				14509	818																	
		STD	0010	-0109	3379	2719	0008622		0017	14427	960																	
	140	OBS	0010	-0109	33787	2719				14427	960																	
		STD	0020	-0152	3408	2744	0006442		0025	14413	863																	
	140	OBS	0025	-0167	34183	2753				14408	828																	
		STD	0030	-0169	3422	2756	0005317		0031	14408	816																	
		STD	0050	-0174	3435	2767	0004310		0040	14411	788																	
	140	OBS	0050	-0174	34348	2767				14411	788																	
		STD	0075	-0178	3442	2772	0003764		0050	14413	774																	
	140	OBS	0076	-0178	34419	2773				14415	773																	
		STD	0100	-0176	3447	2777	0003339		0059	14420	769																	
	140	OBS	0101	-0176	34475	2777				14421	769																	
		STD	0125	-0174	3452	2781	0002947		0067	14426	759																	
		STD	0150	-0172	3458	2786	0002480		0074	14432	744																	
	140	OBS	0153	-0172	34581	2786				14433	742																	
		STD	0200	-0155	3467	2792	0001820		0085	14450	697																	
	140	OBS	T0205	-0154	34682	2793				14451	692																	
		STD	0250	-0157	3473	2797	0001316		0093	14458	647																	
	140	OBS	T0250	-0157	34732	2797				14458	647																	

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 S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA
31	1165	EW	73550N	060580E		282	30	09	02 154	1967		015		0137	01	16	2			5 8		0026
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB														
						13	509	226	028	022	7	08										
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	S C				
		STD	0000	0295	3051	2433	0036010		0000	14563	797											
154		OBS	0000	0295	30508	2433				14563	797											
154		OBS	0005	0200	31186	2494				14531	846											
		STD	0010	0004	3236	2600	0020171		0028	14460	944											
154		OBS	0010	0004	32360	2600				14460	944											
		STD	0020	-0110	3354	2699	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	14415	786											
156		OBS	0076	-0181	34420	2773				14415	787											
		STD	0100	-0156	3452	2780	0003014		0085	14430	796											
156		OBS	0101	-0155	34523	2780				14431	796											
		STD	0125	-0173	3457	2785	0002568		0092	14427	782											
156		OBS	0126	-0175	34575	2785				14427	781											

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 S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE	AMT
311165		EW	73391N	062280E		282	32	09	02 183	1967		016		0117	01	17	3			5 8		0027		
						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															
							19	513	226	044	037	7	07											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	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	NOOC STATION NUMBER						
		STD	0000	0206	2920	2336	0045334		0000	14506	835													
184		OBS	0000	0206	29201	2336				14506	835													
184		OBS	0005	-0004	30461	2447				14429	899													
		STD	0010	-0104	3246	2612	0018999		0032	14411	969													
184		OBS	0010	-0104	32462	2612				14411	969													
		STD	0020	-0154	3357	2703	0010351		0047	14405	863													
184		OBS	0025	-0171	33957	2735				14403	827													
		STD	0030	-0172	3402	2740	0006846		0055	14404	826													
		STD	0050	-0174	3423	2757	0005215		0068	14410	821													
184		OBS	0051	-0174	34244	2758				14410	821													
		STD	0075	-0169	3444	2774	0003603		0079	14419	812													
186		OBS	0076	-0169	34447	2775				14419	811													
		STD	0100	-0168	3451	2780	0003056		0087	14425	794													
186		OBS	0101	-0168	34513	2780				14425	793													

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 S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	EW	73230N	063560E		282	33	09	02 210	1967		017		0101	01	19	3			5 8		0028
						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												
							19	513	234	047	041	7	05								
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	NOOC STATION NUMBER		
		STD	0000	0268	2787	2226		0055845		0000	14516	823									
	211	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	886									
	211	OBS	0020	-0164	33415	2691					14398	888									
		STD	0030	-0170	3377	2720		0008769		0081	14402	849									
	211	OBS	0046	-0175	34187	2754					14408	801									
		STD	0050	-0174	3420	2755		0005438		0095	14409	798									
		STD	0075	-0167	3429	2762		0004785		0108	14418	776									
	211	OBS	0094	-0161	34353	2767					14425	760									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	73008N	065260E	282	35	09	02	239	1967		018	0117	01	19	3				1	2		0029
WATER		WIND		AIR TEMP. °C		BARO- METER		DRY BULB		WET BULB		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	IMBET	BULB	BULB	7	07															
			20	512	254	046	039	7	07														

MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	3 C
		STD	0000	0406	2821	2242	0054298	0000	14560	786							
239		OBS	0000	0406	28211	2242			14580	786							
239		OBS	0005	0321	29336	2338			14559	822							
		STD	0010	0256	2975	2376	0041458	0048	14537	841							
239		OBS	0010	0256	29753	2376			14537	841							
		STD	0020	-0060	3217	2587	0021371	0079	14429	824							
239		OBS	0025	-0163	33023	2659			14394	816							
		STD	0030	-0151	3321	2674	0013116	0097	14403	804							
		STD	0050	-0132	3361	2722	0008584	0116	14423	777							
239		OBS	0050	-0132	33806	2722			14423	777							
		STD	0075	-0172	3423	2757	0005213	0135	14415	796							
239		OBS	0075	-0172	34229	2757			14415	796							
		STD	0100	-0165	3430	2762	0004711	0148	14423	779							
239		OBS	0100	-0165	34295	2762			14423	779							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311165		EW	72490N	066520E	282	26	04	03	067	1967		014		0073	01	18	3				0	1		0030
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS- M	DIR.	SPEED OR SCALE	DRY BULB	WET BULB													
						8	19	18	509	258		051	044	8	05									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	3 C
		STD	0000	0435	2504	1989	0078592	0000	14551	789							
27		OBS	0000	0435	25039	1989			14551	789							
27		OBS	0005	0435	25138	1989			14551	793							
		STD	0010	0250	2762	2227	0057637	0068	14506	825							
27		OBS	0010	0250	27621	2227			14506	825							
		STD	0020	-0036	3133	2515	0027691	0111	14429	886							
27		OBS	0025	-0138	32724	2634			14401	902							
		STD	0030	-0133	3291	2655	0025435	0133	14407	871							
		STD	0050	-0112	3367	271	0009672	0158	14431	749							
27		OBS	0059	-0103	34213	2738			14441	694							

REFER NCH		SHIP CODE	LATITUDE	LONGITUDE	MARS DEN SQUARE	STATION TIME			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY	ID.					10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	GA	HGT		PER	SEA	
91116	W	258N	074		56	27	07	00	1967			055	00	1	3				0		0031
WATER		WIND		BARO- METER	AIR TEMP °C		VS OD	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
CLAR CODE	TRANS MM	DIR	SPEED KTS		DRY BULB	WET BULB															
		17	20	11	25	066	052	05													

MESSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	3 C
		STD	0000	0371	2524	201	0076553	0000	14526	790							
048		STD	0000	0371	25244	2010			14526	790							
248		OBS	0005	0371	24599	1959				797							
		STD	0010	0326	256	2061	0071044	0074	14517	809							
248		OBS	0010	0326	25049	2061			14517	809							
		STD	0020	-0024	3005	2479	0031012	0126	14428	859							
48		OBS	0025	-014	32585	2623			14398	864							
		STD	0030	-0137	326	264	0016315	0150	1444	855							
		STD	0050	-0124	3365	2709	0009819	0176	14425	682							
248		OBS	0050	-0124	33544	2709			14425	682							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
311165	EW		73337N	069120E	282	39	09	03	099	1967		021		0018	00	18	3				02		0032			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						12	04	18	S12		232	063				048	8	04								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C							
		STD	0000	0492	0932	0743		0199780		0000	14373	836														
	099	OBS	0000	0492	09322	0743					14373	836														
	099	OBS	0005	0350	14333	1146					14375	773														
		STD	0010	-0092	2607	2096		0068258		0134	14328	700														
	099	OBS	0010	-0092	26071	2096					14328	706														
	099	OBS	0013	-0080	26323	2116					14338	661														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165	EW	73500N	067520E	282	37	09	03	127	1967	022	0042	00	21	2					3	2		0033	
		WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE																		
		11	10	24	S13	232		063		048		8		07									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C			
		STD	0000	0389	2145	1708		0105661		0000		14484	822										
	127	OBS	0000	0389	21445	1708						14484	822										
	127	OBS	0005	0236	26938	2153						14490	832										
		STD	0010	0152	2682	2308		0048003		0077		14483	835										
	127	OBS	0010	0162	28817	2308						14483	835										
	127	OBS	0015	0077	29667	2380						14457	858										
		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										
		STD	0030	-0155	3326	2678		0012753		0126		14401	764										
	127	OBS	0030	-0155	33256	2678						14401	764										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER		SEA	TYPE
311165	EW		74095N	066220E	282	46	09	03	156	1967		023		0115	01	22	2			4	2	0034	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
								18	S10	235	045	040	8	07									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C					
		STD	0000	0197	2782	2226	0055049		0000	14463	827												
	156	OBS	0000	0197	27815	2226				14483	827												
	156	OBS	0005	0152	28886	2314				14479	846												
		STD	0010	0037	3051	2450	0034460		0045	14449	878												
		STD	0020	-0128	3285	2644	0015924		0070	14407	910												
	156	OBS	0020	-0128	32853	2644				14407	910												
		STD	0030	-0149	3311	2666	0013889		0085	14402	862												
	156	OBS	0045	-0159	33474	2696				14405	795												
		STD	0050	-0148	3356	2702	0010424		0110	14412	767												
	156	OBS	0070	-0120	33989	2736				14435	696												
		STD	0075	-0120	3411	2746	0006280		0130	14437	697												
	156	OBS	0095	-0127	34671	2792				14445	703												
		STD	0100	-0130																			
	156	OBS	0117	-0145																			

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311165	EW	74245N	064530E	282	44 09 03 182	1964		024	0140	01	21	3				0		0035	
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
				COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
						18	512	226	046	033	8	07							

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C
		STD	0000	0162	2930	2351	0043657	0000	14489	824							
183		OBS	0000	0162	29361	2351			14489	822							
183		OBS	0005	0160	29384	2353			14489	833							
		STD	0010	0159	3009	2410	0038279	0041	14499	831							
183		OBS	0010	0159	30090	2410			14499	831							
		STD	0020	-0171	3231	2599	0020261	0070	14466	879							
183		OBS	0025	-0148	32104	2665			14402	887							
		STD	0030	-0149	3324	2680	0012508	0087	14405	859							
		STD	0050	-0151	3386	2726	0008145	0107	14415	770							
183		OBS	0050	-0151	33850	2726			14415	770							
		STD	0075	-0129	3418	2752	0005692	0125	14434	714							
183		OBS	0075	-0129	34183	2752			14434	714							
183		OBS	T0099	-0129	34269	2759			14439	708							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1"		MO	DAY			HR	MIN	CRUISE NO.	STATION NUMBER		DIR	HGT	
311165	EW	74410N	063210E	282	43	09	03	210	1967	025	079	01	21	2				4	2	0036
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						19	510	225	030	023	8	05								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C
		STD	0000	0139	3011	2412	0038050	0000	14488	837							
210		OBS	0000	0139	30105	2412			14488	837							
210		OBS	0005	-0070	31658	2540			14412	732							
		STD	0010	-0132	3240	2640	0015740	0027	14427	955							
210		OBS	0010	-0132	32405	2646			14427	955							
		STD	0025	-0130	3364	2712	0019473	0040	14414	929							
210		OBS	0025	-0130	33645	2712			14409	914							
		STD	0030	-0101	3405	2743	0066612	0040	14410	877							
		STD	0050	-0159	3429	2762	0004768	0052	14412	815							
210		OBS	0050	-0173	3448	2772			14414	764							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
								CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SIA		TYPE	AMT		
C-REF NO.	IO. NO.				10"	1"	MO	DAY	HR	1/10										
311165	EW		7457 N	061520E	282	42 09 03 239	1967			026		0334	03	19	2			45	9 9	0037
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
				COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						21	501	218	027	027	0	11								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C C
		STD	0000	0188	3092	2474	0032138	0000	14522	812							
239		OBS	0000	0188	30920	2474			14522	812							
239		OBS	0005	0165	31093	2489			14514	826							
		STD	0010	-0123	3278	2635	0010815	0024	14453	940							
239		OBS	0010	-0023	32784	2635			14453	940							
		STD	0020	-0127	3354	2700	0010035	0038	14417	860							
239		OBS	0025	-0126	33623	2724			14405	855							
		STD	30	-0164	3392	2732	007632	0047	14407	833							
		STD	0050	-0109	3422	2756	0075328	0067	14412	775							
239		OBS	0050	-0109	34217	2756			14412	775							
		STD	0075	-0175	3439	2770	0003555	0072	14410	770							
239		OBS	0075	-0173	34393	2770			14410	770							
		STD	0100	-0109	3447	2776	0013375	0081	14424	760							
239		OBS	0100	-0109	34468	2776			14424	760							
		STD	0125	-0168	3452	2781	0002965	0089	14429	753							
		STD	0150	-0167	3457	2785	0002572	0096	14434	745							
239		OBS	0151	-0107	34571	2785			14434	745							
		STD	0200	-0154	3465	2793	0002016	0107	14450	729							
239		OBS	T0203	-0153	34650	2791			14451	720							
		STD	0250	-0162	3470	2795	0001543	0116	14455	701							
		STD	0300	-0166	3474	2798	0001207	0123	14462	600							
239		OBS	T0300	-0166	34739	2798			14462	600							
239		OBS	T0343	-0164	34756	2800			14470	615							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	4100 H2O METER	MARSSEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311165		EW	75305N	065460E		282	55	09	04	056	1967	027	0326	03	19	3			45	9	9	0038
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						05	19	23	S05	213	027	024	0	10								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC				
		STD	0000	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	846											
056		OBS	0025	-0159	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	756											
		STD	0100	-0171	3443	2773	0003661		0082	14422	707											
056		OBS	0101	-0171	34436	2774				14422	700											
		STD	0125	-0172	3450	2779	0003108		0090	14427	726											
		STD	0150	-0172	3455	2783	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		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	4100 H2O METER	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					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	028	0236	02	12	3					0		0039
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB										
						06	23	24	S14	225		048	036	8	09								
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
		STD	0000	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	0069	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	-0175	3460	2787	0002291	0157	14439	730													
083		OBS	T0208	-0178	34611	2788			14439	721													

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
											DIR	HGT	PER	SEA			
311165	EW	74570N	068350E	282 48	09 04 113	1967	029		0104	01	18	2			40	9 9	0040
				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							
							22	507	232	047	032	8	06				

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0155	2977	2385	0040669	0000	14491	827							
	114	OBS	0000	0155	29774	2385			14491	827							
	114	OBS	0005	0148	29746	2383			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	766							
		STD	0030	-0151	3335	2685	0012041	0071	14405	760							
	114	OBS	0045	-0148	33688	2713			14413	747							
		STD	0050	-0152	3376	2719	0006679	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	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
											DIR	HGT	PER	SEA			
311165	EA	74370N	070100E	281 40	03 04 139	1967	030		0227	00	18	2				4 2	0041
				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							
				11	04	23	512	241	053	039	8	05					

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0367	1977	1576	0118381	0000	14452	816							
	139	OBS	0000	0367	19768	1576			14452	816							
	139	OBS	0005	0234	25023	2001			14465	828							
		STD	0010	0143	2003	2131	0004600	0092	14467	827							
	139	OBS	0010	0143	20029	2131			14467	827							
	139	OBS	0015	-0035	20442	2288			14388	751							
		STD	0020	-0150	3240	2648	0015545	0132	14397	772							
	139	OBS	0020	-0150	32095	2648			14397	772							

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
											DIR	HGT	PER	SEA			
311165	EA	74210N	7130E	281 40	03 04 163	1967	031		0019	00	18	2				4 2	0042
				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							
							23	512	241	053	039	8	04				

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0443	1218	1971	0177361	0000	14388	842							
	164	OBS	0000	0443	12176	1971			14388	842							
	164	OBS	0005	0443	12173	1971			14389	846							
		STD	0010	0434	1235	1974	0175940	0177	14388	833							
	164	OBS	0010	0434	12351	1974			14388	833							
	164	OBS	0015	-0150	12971	1613			14217	758							

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NDDC STATION NUMBER
											DIR	HGT	PER	SEA			
311165	EA	74164N	073100E	281 43	09 04 189	1967	032		0032	00	18	3				0	0043
				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							
							25	512	244	051	052	7	04				

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0425	1256	1002	0174330	0000	14305	842							
	189	OBS	0000	0425	12556	1002			14385	842							
	189	OBS	0005	0423	12553	1002			14384	845							
		STD	0010	0415	1304	1041	0170502	0172	14388	820							
	189	OBS	0010	0415	13041	1041			14388	820							
	189	OBS	0018	-0126	15264	1223			14166	690							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		73480N	079580E		281	39	09 05 038	1967		033		0037	00	23	1				4	1	0044
						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												
		12		04	23	S12	256		045		039		8			08						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SI O ₄ -Si $\mu\text{g} - \text{at/l}$	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	33260	2678				14404	542											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165	EW		74050N	078440E		281	48	09 05 064	1967		034		0028	00	22	1				7	8		0045	
							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
		12	04	22	S11	249		053 044		7 06														
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S 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	-0119	23975	1927					14287	844												
		STD	0020	-0137	2789	2243		0054114		0275	14333	791												
064		OBS	0020	-0137	27892	2243					14333	791												
064		OBS	0025	-0151	32871	2647					14397	532												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			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		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB		WET BULB											
		12	05	00	S00	238		036		034				0		07					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^7$		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C		
		STD	0000	0208	1290	1036		0171048		0000	14291	873									
	094	OBS	0000	0208	12899	1036					14291	873									
	094	OBS	0005	0067	15464	1242					14259	863									
		STD	0010	-0091	2226	1788		0097867		0134	14276	798									
	094	OBS	0010	-0091	22255	1788					14276	798									
	094	OBS	0015	-0123	24272	1951					14289	800									
		STD	0020	-0151	2962	2383		0040755		0204	14351	730									
	094	OBS	0020	-0151							730										
	94	OBS	0025	-0158	32300	2600					14386	589									
		STD	0030	-0155	3233	2602		0019906		0234	14388	574									
	094	OBS	0030	-0155	32325	2602					14388	574									

REFERENCE CFTY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR:1/10	MARS DEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIP	HGT FT	PER SEA			
311165	EW	74445N	075475E	281 45 04 123	1967			036		0036	00	22	13			0	0047
					WATER		WIND		AIR TEMP: °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
COLOR CODE		TRANS. (m)	DIR.	SPEED OF FORCE	BARO-METER (mb)		DRY BULB	WET BULB									
12 07		14	514	213	053		044	8 07									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C
		STD	0000	0289	1816	1445	0131132	0000	14395	837							
123		OBS	0000	0289	18063	1445			14395	837							
123		OBS	0005	0253	18895	1513			14390	833							
		STD	0010	0152	2137	1714	0105080	0118	14378	838							
123		OBS	0010	0152	21372	1714			14378	838							
123		OBS	0015	0137	25713	1904			14357	801							
		STD	0020	-0149	2830	2277	0050926	0196	14333	795							
123		OBS	0020	-0149	28303	2277			14333	795							
123		OBS	0025	-0160	24722	2392			14349	804							
		STD	0030	-0161	3077	2476	0031901	0238	14364	748							
123		OBS	0030	-0161	30765	2476			14364	748							

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR:1/10	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIF	HGT	PER			
311165	EW	75310N	078300E	281 58 09 173	1967			036A		0047	00	22	13			516	0048
				WATER		WIND	BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
				COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB							
								20	516	164	039	032	7	05			

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C
		STD	0000	0036	2481	1992	0078284	0000	14369	857							
173		OBS	0000	0036	24805	1992			14369	857							
173		OBS	0005	-0078	27515	2212			14354	876							
		STD	0010	-0074	2774	2230	0055382	0067	14350	882							
173		OBS	0010	-0074	27737	223			14350	882							
		STD	0020	-014	2866	2376	0048178	0119	14343	821							
173		OBS	0025	-0153	29453	2370			14348	787							
		STD	0030	-0153	31148	2453	0034110	0160	14364	750							
173		OBS	0040	-0152	33197	2673			14404	667							

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR:1/10	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
								CRUISE NO.	STATION NUMBER			DIF	HGT	PER			
311165	EW	75515N	076400E	281 56 02 5	204	1967		036B		0046	00	22	15			4799	0049
				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							
								22	525	110	046	044	0	05			

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C
		STD	0000	0114	2364	1896	0087458	0000	14389	870							
204		OBS	0000	0114	23644	1896			14389	870							
204		OBS	0005	0111	23659	1898			14389	855							
		STD	0010	0047	2463	1977	0079655	0084	14373	861							
204		OBS	0010	0047	24629	1977			14373	861							
		STD	0020	-012	2866	2305	0048206	0147	14352	829							
204		OBS	0025	-0161	30206	2431			14355	797							
		STD	0030	-0159	3144	2531	0026706	0185	14374	754							
204		OBS	0035	-0157	32362	2605			14389	701							

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	75030N	074190E		281	54	09	06	017	1967		037		0042	00	21	5		47	7	8	0050
						WATER		WIND		AIR TEMP. °C		BARO- METER		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						12	07	22	S25	079	064	058	0	05									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC						
		STD	0000	0384	1405	1123	0162545	0000	14386	838													
018		OBS	0000	0384	14053	1123			14386	838													
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	26619	2140			14355	798													
		STD	0020	-0143	2875	2313	0047480	0206	14342	776													
018		OBS	0020	-0143	28750	2313			14342	776													

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'AMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
311165	EW		75250N	073060E	281	53	09	06	052	1967		038		0040	00	21	5		45	9	9	0051
						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											
						11	00	22	S28	964	055	052	1	06								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S CC				
		STD	0000	0354	1560	1247	0150446		0000	14392	831											
052		OBS	0000	0354	15599	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	16338	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		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'AMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		75550N	073310E		281	53	09	06	089	1967		039		0086	01	23	8			3	2	0052
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB											
								25	S22	970	039	001	8	06									
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S CC					
		STD	0000	0051	2884	2315	0047282		0000	14431	838												
089		OBS	0000	0051	28844	2315				14431	838												
089		OBS	0005	0051	28844	2315				14432	841												
		STD	0010	0042	2901	2329	0045951		0047	14431	843												
089		OBS	0010	0042	29012	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	0040	-0155	33173	2671				14403	843												
		STD	0050	-0154	3325	2677	0012787		0125	14405	839												
089		OBS	0073	-0135	34927	2813				14442	714												

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DOY MO	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mb)	AIR TEMP. °C														VIS. CODE	NO. OBS. DEPTHS
311165		EW	77370N	069290E	282	79	04	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 OF FORCE	BARO- METER (mb)	DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						05	21	28	515	127	015		004		8		11		SPECIAL OBSERVATIONS							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C					
		STD	0000	0115	3350	2685		0012092		0000		14524	806													
044		OBS	0000	0115	33496	2685						14524	806													
044		OBS	0005	0115	33485	2684						14525	805													
		STD	0010	0115	3349	2685		0012103		0012		14526	805													
044		OBS	0010	0115	33444	2685						14526	805													
		STD	0020	0109	3356	2693		0011571		0024		14526	806													
044		OBS	0026	0037	33652	2699						14518	806													
		STD	0030	0027	3384	2718		0008979		0034		14494	798													
		STD	0050	-0160	3449	2778		0003254		0046		14420	765													
044		OBS	0052	-0168	34532	2782						14417	763													
		STD	0105	-0111	3405	2789		0002180		0053		14449	749													
044		OBS	0107	-0106	34662	2790						14452	748													
		STD	0100	-0047	3476	2796		0001597		0058		14485	735													
044		OBS	0105	-004	34770	2796						14489	734													
		STD	0125	-0070	3478	2798		0001351		0062		14478	744													
		STD	0150	-0095	3474	2800		0001155		0065		14471	761													
044		OBS	0156	-0099	34791	2800						14470	763													
		STD	0200	-0097	3468	2807		0000457		0069		14480	760													
044		OBS	0208	-0097	34687	2808						14481	759													
		STD	0250	-0092	3487	2807		0000507		0071		14493	757													
		STD	0300	-0088	3485	2805		0000640		0074		14500	754													
044		OBS	0308	-0087	34851	2805						14502	753													
		STD	0400	-0081	3491	2804		0000233		0078		14521	754													
044		OBS	0412	-0080	34924	2811						14524	753													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DOY MO	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		78036N	068100E	282	88	09	07	077	1967		043		0430	04	29	5				7	8	0054	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO. OBS. DEPTHS															
			19	508	108	025	014	7	11															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · ml ⁻¹	TOTAL-P μg · ml ⁻¹	NO ₂ -N μg · ml ⁻¹	NO ₃ -N μg · ml ⁻¹	SiO ₄ -Si μg · ml ⁻¹	pH	S C							
		STD	0000	0026	3236	2599	0020289	0000	14468	833														
077		OBS	0000	0026	32354	2599			14468	833														
077		OBS	0004	0026	32359	2599			14469	834														
077		OBS	0009	0026	32346	2598			14470	839														
		STD	0010	0026	3239	2601	0020041	0020	14470	843														
		STD	0020	0013	3283	2677	0016018	0038	14472	870														
077		OBS	0023	0004	32973	2649			14470	872														
		STD	0030	-0062	3350	2695	0011176	0052	14448	841														
077		OBS	0048	-0171	34385	2771			14413	787														
		STD	0050	-0073	3442	2771	0003913	0067	14412	785														
077		OBS	0072	-0177	34528	2781			14416	769														
		STD	0075	-0173	3454	2782	0002825	0076	14419	768														
077		OBS	0097	-0137	34605	2787			14440	760														
		STD	0100	-0125	3462	2787	0002353	0082	14440	757														
		STD	0125	-0047	3474	2794	0001745	0087	14488	739														
077		OBS	0145	-0010	34804	2797			14510	734														
		STD	0150	-0010	3481	2798	0001390	0091	14510	736														
077		OBS	0195	-0014	34825	2799			14516	754														
		STD	0230	-0019	3483	2800	0001190	0098	14515	750														
		STD	0250	-0062	3484	2803	0000890	0103	14504	766														
077		OBS	0258	-0085	34850	2805			14500	767														
		STD	0300	-0087	3486	2805	0000610	0107	14501	760														
		STD	0400	-0099	3492	2811	0000067	0110	14512	734														
077		OBS	0405	-0100	34927	2811			14513	731														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER			
CTRY CODE	ID. NO.				10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYP1	A.M.T		
311165	EW	78290N	066550E		282	86	09	07	108	1967		044	0390	03	21	3				6	8	0055
					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	16	17	S15	073	025	014	8	11									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S 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		0022452		0023	14402	883										
		STD	0020	-0133	3357	2703		0010408		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		0001846		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	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10°				MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT
						10°	1°																	
311165		EW	78550N	065360E	282	85	09	07	150	1967	045	0361	03	19	2			63	7	8		0056		
		WATER COLOR CODE	TRANS. m	DIR.	WIND SPEED OR FORCE	BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
							DRY BULB	WET BULB																
					17	S17	918	012	006	7	11													
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC							
		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	14409	759														
	150	OBS	0067	-0185	34503	2780			14411	755														
		STD	0075	-0167	3453	2781	0002919	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	0001852	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	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		79194N	064160E	282	94	09	07 181	1967		046	0311	03	19	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	S18	855	012	006	0	10						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	NO ₂ -N $\mu g - \sigma_t/l$	NO ₃ -N $\mu g - \sigma_t/l$	SiO ₂ -S $\mu g - \sigma_t/l$	pH	S CODE	
		STD	0000	-0158	3286	2645		0015050		0000		14389	879								
181		OBS	0000	-0156	32055	2645						14389	879								
181		OBS	0005	-0159	32855	2645						14393	872								
		STD	0010	-0159	3286	2645		0015040		0016		14391	873								
181		OBS	0010	-0159	32855	2645						14391	873								
		STD	0020	-0170	3344	2693		0011311		0029		14395	880								
181		OBS	0025	-0174	33683	2713						14398	884								
		STD	0030	-0174	3388	2729		0007715		0039		14401	852								
		STD	0050	-0173	3440	2771		0003913		0051		14412	765								
181		OBS	0052	-0173	34428	2773						14413	760								
		STD	0075	-0169	3445	2775		0003526		0060		14419	748								
181		OBS	0077	-0169	34452	2775						14420	747								
		STD	0100	-0148	3459	2786		0002503		0068		14435	748								
181		OBS	0103	-0146	34602	2787						14437	748								
		STD	0125	-0136	3464	2789		0002149		0074		14446	747								
		STD	0150	-0118	3467	2791		0001474		0079		14459	745								
181		OBS	0153	-0115	34674	2792						14461	745								
		STD	0200	-0054	3476	2796		0001546		0087		14478	733								
181		OBS	T 0205	-0047	34765	2796						14501	732								
		STD	0250	-0014	3481	2798		0001365		0095		14525	724								
181		OBS	T 297	0001	3484	2800						14543	720								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		78546N	060285E	282	6	07	08 019	1967		049	0256	02	29	6			44	1	9	0058
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS- M.	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	WIL CODE													
					29	S12	890	-002	-004	1	10										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - σ _t /l	TOTAL-P μg - σ _t /l	NO ₂ -N μg - σ _t /l	NO ₃ -N μg - σ _t /l	SiO ₂ -S μg - σ _t /l	pH	S CODE				
		STD	0000	-0141	3196	2572	0022777	0000	14385	882											
009		OBS	0000	-0141	31759	2572			14385	882											
009		OBS	0004	-0142	31957	2572			14385	884											
009		OBS	0008	-0142	31923	2578			14387	884											
		STD	0010	-0142	3215	258	2274	0022	14387	885											
		STD	0020	-0141	3218	259	0011061	0044	14391	887											
010		OBS	0021	-0141	32193	2591			14392	887											
		STD	0030	-0161	3332	2583	0012247	0051	14400	822											
009		OBS	0043	-0175	34335	2700			14409	762											
		STD	0050	-0171	3437	2764	0004149	0077	14415	759											
009		OBS	0064	-0150	34445	2774			14422	752											
		STD	0075	-0148	3451	2774	0003128	0086	14430	745											
009		OBS	0075	-138	34563	2783			14437	738											
		STD	0100	-0126	3465	2790	0022117	0093	14446	725											
		STD	0125	-0113	3470	2794	0001314	0097	14458	713											
009		OBS	0127	-0112	34763	2799			14459	712											
		STD	0150	-0112	3483	2804	0000775	0100	14464	714											
009		OBS	T 0170	-0112	34855	2807			14467	710											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT 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		78410N	060200E		282	80	09	08	037	1967	050		0177	01	24	4				6 8		0059
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						06	25	29	512	947	-004	-005	8	08									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
		STD	0000	-0113	3193	2569	0023059		0000	14398	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	34586	2784				14447	728												
		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	ORBIT 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		78175N	061420E		282	81	09	08	086	1967	051		0302	03	25	6			7 2		0060				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						06	22	27	515	995	011	-002	7	10												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC								
		STD	0000	-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	0008465		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	34853	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	34891	2801				14564	700															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT 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		77390N	059537E		283	79	09	10	014	1967	058		0311	02	30	8			70	9	9	0061
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									33		523	971					002	-004	4	10			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
	014	OBS	00000	0049	33051	2653					831												
	014	OBS	00020	0046	33052	2653					830												
	014	OBS	00040	0046	33050	2652					816												
	014	OBS	00100	0047	33064	2654					813												
	014	OBS	00200	-0059	34155	2747					846												
	014	OBS	00310	-0137	34535	2781					774												
	014	OBS	00440	-0121	34629	2788					757												
	014	OBS	00760	-0085	34732	2795					740												
	014	OBS	01140	-0129	34774	2800					757												
	014	OBS	01840	-0086	34887	2808					720												

REFERENCE CITY CODE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DEPT. INDEX	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
									CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	77225N	61113E		282	71 03 10 041	1967		057	0201	02	21	18			87	8 5		0062
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB									
									29	524	482	004	002	4	00					

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CODE
		STD	0000	0153	3342	2677	0012896	0000	14540	796							
041		OBS	0000	0153	33422	2677			14540	796							
041		OBS	0005	0153	33431	2677			14541	782							
		STD	0010	0154	3343	2677	0012842	0013	14542	770							
041		OBS	0011	0154	33430	2677			14543	775							
		STD	0020	0154	3344	2677	0012807	0026	14544	777							
041		OBS	0027	0154	33438	2678			14545	778							
		STD	0033	0105	3303	2696	0011015	0038	14527	775							
		STD	0050	-0123	3458	2784	0002583	0051	14438	759							
041		OBS	0054	-0148	34693	2794			14429	757							
		STD	0075	-0146	3475	2794	0001296	0056	14434	750							
041		OBS	0082	-0137	34774	2800			14460	756							
		STD	0100	-0150	3484	2800	0000042	0059	14470	762							
041		OBS	0108	-0003	34865	2800			14480	764							
		STD	0125	-0073	3408	2806	0000590	0061	14478	761							
		STD	0150	-0089	3480	2808	0000404	0062	14476	750							
041		OBS	0174	-0103	3405	2810			14473	754							

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DEPT. INDEX	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DR.	HGT		PER	SEA	
311165	EW		77 30'N	62570'E		282	72	04	10 071	1967	056		0111	01	21	18		87	7 8		0063
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									24	524	000	-12	006	4	00						

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CODE
		STD	0000	0120	3305	2713	0009432	0000	14531	797							
71		OBS	0000	0120	33850	2713			14531	797							
71		OBS	0005	0119	33845	2713			14532	794							
		STD	0011	0119	3384	2713	0009480	0019	14532	795							
71		OBS	0011	0119	33843	2713			14533	795							
		STD	0020	0119	3385	2714	0009395	0019	14534	796							
041		OBS	0024	0118	33863	2714			14535	796							
		STD	0030	0111	3382	2720	0008786	0028	14524	795							
		STD	0038	-0131	3441	2767	0004340	0041	14479	774							
041		OBS	0054	-0050	34483	2774			14472	775							
		STD	0075	-0100	3460	2797	0001441	0040	14404	750							
71		OBS	0074	-0111	34822	2803			14455	720							

REFERENCE		SHIP CODE	LATITUDE " 10"	LONGITUDE " 10"	DEPT. INDEX	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.						CRUISE NO.	STATION NUMBER		DR.	HGT			PER	SEA	TYN		AMT		
311165	EW	70435N	06430E	282	64	04	10	103	1967	055		0105	01	21	18		87	7	8	0064
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB									
									28	520	005	016	010	5	00					

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S CODE
		STD	0000	0139	3399	2723	0008520	0000	14542	795							
113		OBS	0000	0139	33986	2723			14542	795							
103		OBS	0005	0136	33985	2723			14541	797							
		STD	0010	0136	3398	2722	0008540	0009	14543	808							
103		OBS	0010	0138	33982	2722			14543	808							
		STD	0020	0074	3420	2748	0006115	0016	14520	814							
113		OBS	0027	0132	34391	2762			14504	816							
		STD	0030	0011	3443	2766	0007401	0021	14495	815							
		STD	0050	-0089	3462	2780	0002500	0020	14455	800							
103		OBS	0052	-0095	34635	2788			14453	805							
		STD	0075	-0107	3467	2791	0002042	0034	14451	792							
103		OBS	0075	-0100	34671	2791			14451	791							
		STD	0100	-0119	3469	2793	0001830	0039	14450	790							
113		OBS	0105	-0121	34695	2793			14450	789							
		STD	0125	-0128	3472	2796	0001565	0043	14451	784							
113		OBS	0132	-0130	34724	2796			14451	781							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		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		76270N	059230E		283	69	09	10	191	1967		068	0240	02	27	9			87	78		0065
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
										31	S17	005	012	006	6	08							
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	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	0008124	0008	14577	786													
		STD	0020	0211	3411	2727	0008124	0016	14579	790													
	191	OBS	0021	0211	34106	2727			14579	790													
		STD	0030	0102	3429	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	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					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	0108	01	28	6			85	08		0066
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
										29	S08	000	015	008	7	08							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH						
		STD	0000	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												
226		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	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311165	EW		77010N	055500E		283	75	09	11	023	1967		066	0155	01	32	4				87		0067
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						04	21	34	506		996	009					-002	7	06				
MISSING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	Si O ₄ -Si μg - dl/l	pH	S C						
		STD	0000	0240	3412	2726	0006223	0000	14588	761													
		OBS	0000	0240	34121	2726			14588	761													
023		OBS	0005	0239	34124	2726			14589	763													
		STD	0010	0239	3413	2727	0008145	0008	14589	764													
023		OBS	0010	0239	34131	2727			14589	764													
		STD	0020	0240	3413	2727	0008145	0016	14592	766													
023		OBS	0026	0241	34134	2727			14593	768													
		STD	0030	0172	3425	2741	0006751	0024	14565	769													
		STD	0050	-0049	3469	2790	0002130	0033	14474	775													
023		OBS	0051	-0055	34701	2791			14472	775													
		STD	0075	-0020	3482	2799	0001271	0037	14494	780													
023		OBS	0077	-0018	34826	2800			14495	759													
		STD	0100	-0016	3486	2802	0000983	0040	14500	761													
023		OBS	0103	-0016	34868	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	DRAFT FOOT	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311165	EW		77180N	053580E	283	73	09	11	057	1967	065		0340	03	32	3			6	2	0068
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
06	26	35	S11	048	-002	-012	8	10													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	°C				
		STD	0000	0232	3382	2703	0010417	0000	14581	768											
077		OBS	0000	0232	33823	2703			14581	768											
077		OBS	0005	0231	33818	2702			14581	782											
		STD	0010	0231	3382	2702	0010436	0010	14582	776											
077		OBS	0011	0231	33822	2703			14582	775											
		STD	0020	0232	3382	2703	0010422	0021	14584	788											
077		OBS	0027	0232	33824	2703			14585	793											
		STD	0030	0165	3396	2719	0008400	0031	14558	788											
		STD	0030	-0133	3461	2787	0002421	0042	14434	766											
077		OBS	0053	-0156	34667	2792			14425	764											
		STD	0075	-0103	3476	2799	0001469	0047	14455	764											
077		OBS	0081	-0193	34781	2794			14460	763											
		STD	0100	-0077	3482	2802	0011007	0050	14472	755											
077		OBS	0107	-0070	34838	2803			14476	753											
		STD	0125	-0035	3488	2805	0011735	0052	14496	754											
		STD	0150	-0008	3494	2806	0011442	0053	14513	756											
077		OBS	0161	-0004	34925	2807			14517	757											
		STD	0200	-0004	3494	2807	0011421	0054	14517	743											
077		OBS	0214	-0152	34934	2810			14514	739											
		STD	0230	-0083	3494	2811	0001464	0057	14497	734											
		STD	0300	-0124	3494	2813	-0001441	0057	14485	739											
077		OBS	0316	-0136	34937	2815			14482	739											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT	
311165	EW		77304N	052010E	283	72	09 11 089	1967	064		0311	03	36	2			5	8	0069
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. mm	DIR	SPEED OR FORCE	DRY BULB	WET BULB														
06	32	36	S07	048	-004	-013	8	10											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	°C		
		STD	0000	0082	3347	2685	0012281	0001	14509	820									
089		OBS	0000	0082	3347	2685			14509	820									
089		OBS	0004	0081	33465	2685			14509	823									
089		OBS	0009	0081	33454	2684			14510	815									
		STD	0010	0081	3346	2684	001167	0012	14510	815									
		STD	0020	0081	3347	2685	0012121	0024	14511	819									
089		OBS	0023	0081	33468	2685			14512	820									
		STD	0030	-0022	3396	2794	001737	0034	14474	795									
089		OBS	0046	-0163	34632	2794			14421	753									
		STD	0050	-0111	3473	2795	001145	0044	14422	746									
089		OBS	0069	-0152	34746	2798			14430	734									
		STD	0075	-0036	3475	2794	001728	0048	14485	745									
089		OBS	0092	0178	34770	2793			14505	768									
		STD	0100	0102	3478	2789	001276	0053	14553	768									
		STD	0125	-0070	3482	2801	0001031	0057	14479	753									
089		OBS	0140	-0126	34850	2806			14456	757									
		STD	0150	-0111	3487	2807	0008473	0059	14455	747									
089		OBS	0187	-0076	34934	2811			14488	720									
		STD	0200	-0080	3494	2812	000047	0060	14488	720									
		STD	0250	-0096	3497	2814	-000032	0063	14490	722									
089		OBS	0270	-0102	34977	2815			14440	722									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT							
311165		EW	77525N	050040E		283	70	09	11	120	1967		063	0225	02	36	3				6	8	0070							
		MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 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											
																						WATER	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)																			DIR.	SPEED OF FORCE	ORY BULB	WET BULB							
		06		36	04	513	072	-016	-027	8	09																			
					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																	
		STD		0010	0066	3354	2691	0011496	0012	14504	819																			
	120	OBS		0010	0066								819																	
		STD		0020	0067	3355	2692	0011393	0023	14507	819																			
	120	OBS		0024	0067	33557	2693				14507	819																		
		STD		0030	-0011	3394	2728	0008031	0033	14478	801																			
	120	OBS		0047	-0154	34645	2790				14424																			
		STD		0050	-0154	3466	2792	0001973	0043	14425	756																			
	120	OBS		0071	-0156	34712	2796				14428	734																		
		STD		0075	-0156	3472	2796	0001496	0047	14429	735																			
	120	OBS		0095	-0154	34746	2799				14434	739																		
		STD		0100	-0151	3475	2799	0001269	0050	14436	740																			
		STD		0125	-0133	3479	2801	0001012	0053	14449	743																			
	120	OBS		0143	-0119	34817	2803				14459	746																		
		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 SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER														
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT															
311165		EW	78100N	048080E	284	88	09	11	149		1967		062	032d	03	36	3				5	8	0071														
		MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C																		
		STD		0000	0102	3349	2685	0012098	0000	14518	809																										
		149		OBS	0000	0102	33485	2685		14518	809																										
		149		OBS	0005	0101	33484	2685		14519	815																										
				STD	0010	0100	3348	2685	0012132	0012	14519	811																									
		149		OBS	0010	0100	33479	2685		14519	811																										
				STD	0020	0033	3382	2716	0009163	0023	14495	861																									
		149		OBS	0026	-0006	34014	2733		14481	872																										
				STD	0030	-0039	3417	2748	0006149	0030	14468	850																									
				STD	0050	-0153	3468	2793	0001822	0038	14426	773																									
		149		OBS	0051	-0156	34695	2794		14425	771																										
				STD	0075	-0164	3473	2798	0001394	0042	14425	759																									
		149		OBS	0077	-0165	34733	2798		14425	758																										
				STD	0100	-0160	3476	2800	0001164	0046	14432	759																									
		149		OBS	0102	-0159	34765	2800		14433	759																										
				STD	0125	-0130	3481	2803	0000870	0048	14451	759																									
				STD	0150	-0109	3466	2806	0000557	0050	14466	760																									
		149		OBS	0154	-0107	34861	2806		14467	760																										
				STD	0200	-0105	3490	2809	0000252	0052	14476	751																									
		149		OBS	T0203	-0105	34905	2810		14477	750																										
				STD	0250	-0107	3494	2813	-0000076	0052	14484	735																									
		149		OBS	T0297	-0112	34980	2816		14490	716																										

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. MOON	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMP'L	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	7724 N	046190E		284	76	09	11	201	1967	075		0265	02	35	2				5 8	0072		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
										34	135	134	-001	-017	9	08								
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C							
		STD	0000	0163	3360	2690	0011641	0000	14547	779														
	201	OBS	0000	0163	33596	2690			14547	779														
	201	OBS	0000	0163	33596	2690			14548	779														
	201	OBS	0009	0165	33595	2690			14549	784														
		STD	0010	0153	3364	2694	0011642	0011	14545	784														
		STD	0020	0140	3399	2724	0017931	0021	14553	788														
		STD	0030	-0141	3428	2757	0005301	0028	14469	792														
	201	OBS	0044	-0121	34561	2782			14438	797														
		STD	0050	-0138	3454	2785	0002558	0036	14432	777														
	201	OBS	0067	-0155	3450	2794			14428	740														
		STD	0075	-0155	3470	2795	0001375	0040	14417	738														
	201	OBS	0089	-0112	34804	2800			14453	735														
		STD	0100	-0105	3485	2805	0000697	0043	14460	739														
		STD	0125	-0035	3487	2804	0000797	0045	14494	745														
		STD	0150	-0011	3491	2806	0000620	0047	14512	750														
	201	OBS	T 0179	-0034	34930	2810			14500	752														
		STD	0200	-0010	3495	2809	0001293	0051	14518	750														
	201	OBS	T 2206	-0049	34961	2812			14507	746														

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	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		7724 N	047500E	284	76	09	11 201	1967	075		0270	02	35	2			5 8	0073		
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB									
								34	134	-005	-017	9	10								
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S C				
		STD	0000	0155	3337	2709	000984	0000	14547	793											
	234	OBS	0000	0156	33627	2709			14547	793											
	234	OBS	0005	0154	3360	2704			14547	794											
		STD	0010	0153	3382	2709	000985	0010	14547	788											
	234	OBS	0010	0153	3380	2709			14547	788											
		STD	0020	0156	3383	2709	000986	0020	14550	790											
	234	OBS	0020	0157	3380	2709			1455	790											
		STD	0030	0158	3384	2726	000987	0030	14574	792											
		STD	0040	0158	3456	2787	0002794	0040	14637	792											
	234	OBS	0050	-0147	3480	2787			14628	792											
		STD	0070	-0121	3474	2709	0001450	0045	14446	742											
	234	OBS	0070	-0117	3475	2708			14445	740											
		STD	0100	-0057	3484	2803	000942	0048	14481	746											
	234	OBS	0100	-0051	3484	2803			14484	747											
		STD	0125	-0002	3484	2804	0000775	0050	14507	752											
		STD	0150	0000	3493	2807	0000580	0050	14501	750											
	234	OBS	0150	0010	34933	2807			14520	750											
		STD	0200	-0002	3496	2811	0001188	0050	14514	750											
	234	OBS	0200	-0001	3496	2811			14512	747											
	234	OBS	T 0234	-0002	3496	2811			14504	728											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCR	MARSDEN SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE		CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.						10°	1°	MD		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT	PER	SEA	TYPE		AMT
311165	EW	76454N	049480E	284	69	09	12	023	1967	073	0284	03	36	2				5	8		0074		
		WATER		WIND		AIR TEMP. °C		BARO- METER		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE	ND. OBS. DEPTHS														
					01	506	134	-006	-017	8	10												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	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	0129	3355	2688	0011761		0000		14531	804											
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	0042	3387	2719	0008629		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	0000857		0055		14477	760											
024		OBS	0149	-0037	34895	2806					14499	761											
		STD	0150	-0036	3490	2806	0000575		0056		14500	761											
		STD	0200	-0018	3496	2810	0000222		0058		14517	758											
024		OBS	T0200	-0018	34958	2810					14517	738											
		STD	0250	-0049	3497	2812	-0000012		0059		14511	719											
024		OBS	T0258	-0058	34968	2813					14509	716											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	STATION INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
311165	EW		76295N	051350E		283	61	09	12	058	1967	072		0329	04	01	2			6	8	0075
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						06	27	04	507	132	-004	-014	8	10								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PD4-P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	Si D ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S 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	793										
059		OBS	0009	0170	33676	2695					14557	787										
		STD	0010	0179	3368	2695	0011139		0011		14557	787										
		STD	0020	0181	3369	2696	0011076		0022		14559	787										
059		OBS	0024	0181	33691	2696					14560	787										
		STD	0030	0063	3401	2729	0007878		0032		14513	786										
059		OBS	0049	-0168	34666	2792					14418	778										
		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	34778	2801					14443	762										
		STD	0100	-0128	3479	2801	0001039		0049		14447	761										
		STD	0125	-0048	3486	2804	0000826		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 CITY CODE	SHIP NO.	SHIP CODE	LATITUDE °	LONGITUDE °	DATE MO DAY HR	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
									CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT							
311165		EW	76125N	053230E	283	63	09 12 086	1967		071	0115	01	01	2				5	8	0076						
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. MM	DIR.	SPEED OR FORCE		METER (mbars)		DRY BULB	WET BULB																	
05	31	32	S10	125	023	008	8	07																		

MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0289	3429	2735	0007368	0000	14612	759							
	086	OBS	0000	0289	34287	2735			14612	759							
	086	OBS	0005	0288	34282	2735			14612	762							
		STD	0010	0286	3428	2735	0007371	0007	14612	762							
	086	OBS	0010	0286	34284	2735			14612	762							
		STD	0020	0287	3429	2735	0007374	0015	14614	764							
	086	OBS	0024	0288	34287	2735			14615	765							
		STD	0030	0163	3442	2756	0005399	0021	14563	787							
	086	OBS	0049	-0092	34726	2795			14455	817							
		STD	0050	-0092	3473	2795	0001640	0028	14455	814							
	086	OBS	0074	-0039	34854	2805			14458	765							
		STD	0075	-0100	3486	2806	0000616	0031	14457	764							
	086	OBS	0097	-0146	34930	2813			14440	749							

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	DATE MO DAY HR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CRUISE NO.	ID. NO.					10°	1°	MD	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT					
311165	EW	75570N	055080E	283	55	09	12	116	1967	070	0002	01	01	2				5	8			0077							
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
COLOR CODE		TRANS. MM	DIR.	SPEED OR FORCE		METER (mbars)		DRY BULB	WET BULB																				
04	30	34	S12	120	013	002	7	03																					

MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0195	3422	2738	0007103	0000	14570	784							
	116	OBS	0000	0195	34224	2738			14570	784							
	116	OBS	0005	0193	34229	2738			14570	790							
		STD	0010	0193	3423	2738	0007084	0007	14571	802							
	116	OBS	0010	0193	3423	2738			14571	802							
		STD	0020	0194	3423	2738	0007098	0014	14573	794							
	116	OBS	0025	0175	3422	2738			14574	791							
		STD	0030	017	3423	2741	0000001	0021	14568	788							
		STD	0050	0032	3452	2772	0003825	0032	14509	779							
	116	OBS	10065	-0163	34663	2803			14423	776							

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	DATE MO DAY HR	MARS DEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CRUISE CODE	IO. NO.								1/10	1/10			10"	1"	MO	DAY		HR	10		STATION NUMBER	DIR	HGT	PER	SEA	TYPE	AMT	
311165		EW	75375N	056310E	283	56	09 12 143	1967	069		0166	02	01	2			50	5	8	0078								
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
COLOR CODE		TRANS. MM	DIR.	SPEED OR FORCE		METER (mbars)		DRY BULB	WET BULB																			
11	02	36	S12	105	014	006	8	08																				

MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0422	3335	2648	0015618	0000	14656	734							
	143	OBS	0000	0422	33354	2648			14656	734							
	143	OBS	0005	0422	33352	2648			14657	735							
		STD	0010	0423	3335	2648	0015644	0016	14658	735							
	143	OBS	0010	0423	33353	2648			14656	735							
		STD	0020	0408	3365	2689	0011765	0029	14660	743							
	145	OBS	0020	0380	34086	2710			14652	750							
		STD	0030	0324	3420	2725	0008349	0039	14630	759							
		STD	0050	0104	3462	2776	0003491	0051	14545	801							
	145	OBS	0052	0087	34648	2779			14536	803							
		STD	0075	-0034	3476	2795	0001661	0058	14486	754							
	145	OBS	0078	-0043	34766	2796			14483	750							
		STD	0100	-0056	3479	2798	0001327	0061	14481	740							
	145	OBS	0104	-0058	34796	2799			14481	739							
		STD	0125	-0059	3482	2801	0001079	0064	14484	733							
		STD	0150	-0061	3483	2802	0000490	0067	14467	726							
	145	OBS	10151	-0061	34835	2802			14488	728							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT PER	SEA	TYPE		AMT			
311165		EW	74510N	054340E		283	44	09	12	195	1967		082		0174	02	02	1				5	8	0079
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
									32	S13	117	027	015	8	08									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	CTD						
		STD	0000	0473	3394	2689	0011709		0000	14685	720													
195		OBS	0000	0473	33943	2689				14685	720													
195		OBS	0005	0472	33922	2687				14685	732													
		STD	0010	0473	3393	2688	0011801		0012	14686	736													
195		OBS	0010	0473	33932	2688				14686	736													
		STD	0020	0456	3418	2710	0009771		0023	14684	743													
195		OBS	0025	0432	34303	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	34863	2794				14558	765													
		STD	0075	0083	3487	2797	0001450		0044	14541	750													
195		OBS	0075	0083	34872	2797				14541	750													
		STD	0100	0022	3486	2800	0001185		0047	14518	732													
195		OBS	0101	0019	34855	2800				14516	731													
		STD	0125	-0047	3486	2804	0000830		0049	14490	735													
		STD	0150	-0123	3487	2807	0000466		0051	14459	761													
195		OBS	0156	-0149	34867	2808				14448	774													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF 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	75055N	052550E		283	52	09	12	229	1967		081		0183	02	01	2				5	8	0080		
						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														
								3G S15		099	027	015	8	07												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	CTD								
		STD	0000	0291	3413	2722	0008608		0000	14610	786															
229		OBS	0000	0291	34125	2722				14610	786															
229		OBS	0005	0290	34120	2721				14611	781															
		STD	0010	0290	3412	2721	0008651		0009	14611	782															
229		OBS	0010	0290	34119	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	34748	2794				14483	808															
		STD	0075	-0081	3484	2803	0000874		0031	14466	769															
229		OBS	0075	-0081	34836	2803				14466	769															
		STD	0100	-0161	3483	2806	0000625		0032	14432	782															
229		OBS	0101	-0163	34829	2806				14432	782															
		STD	0125	-0165	3485	2807	0000447		0034	14435	774															
		STD	0150	-0166	3491	2812	-0000031		0034	14439	765															
229		OBS	0165	-0169	34959	2816				14441	760															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165		EW	75205N	051100E		283	51	09	13	018	1967		080		0183	02	36	2			40	6	8	0081
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								01	S11	118	013	002	7	08										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH							
		STD	0000	0322	3440	2740	0006839		0000	14627	767													
018		OBS	0000	0322	34395	2740				14627	767													
018		OBS	0005	0322	34395	2740				14628	769													
		STD	0010	0322	3439	2740	0006676		0007	14629	768													
018		OBS	0010	0322	34391	2740				14629	768													
		STD	0020	0324	3440	2741	0006835		0014	14632	767													
018		OBS	0024	0325	34403	2741				14633	767													
		STD	0030	0300	3445	2747	0006252		0020	14624	776													
018		OBS	0049	0180	34590	2768				14576	793													
		STD	0050	0165	3460	2770	0004056		0031	14570	793													
018		OBS	0073	-0065	34794	2799				14472	785													
		STD	0075	-0065	3480	2800	0001216		0037	14473	785													
018		OBS	0098	-0072	34835	2803				14474	779													
		STD	0100	-0073	3484	2803	0000871		0040	14474	778													
		STD	0125	-0083	3487	2806	0000594		0042	14474	767													
		STD	0150	-0096	3489	2808	0000381		0043	14472	750													
018		OBS	0163	-0104	34807	2809				14471	739													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARS DEN		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLS	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODE		NOOC STATION NUMBER	
						10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TPP		AMT
CRUISE	IO. NO.																						
311165	EW	75300N	049260E			284	59	09	13	049	1967		079		0248	02	34	13			6	8	0082

WATER		WIND		BARO-METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
05	30	34	511	110	013	000	8	07	

MESSAGE	CARD	CARD	DEPTH	T °C	S %	SIGMA-T	SPECIFIC VOLUME	S Δ D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	TYPE	(m)				ANOMALY-107	BYN. M. x 10 ³	VELOCITY		μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l		C
HR 1/10																	
		STD	0000	0452	3467	2749	0006005	0000	14886	739							
	049	OBS	0000	0452	34673	2749			14686	739							
	049	OBS	0005	0452	34674	2749			14687	750							
		STD	0010	0451	3468	2750	0005953	0006	14687	744							
	049	OBS	0010	0451	34680	2750			14687	744							
		STD	0020	0452	3468	2750	0005992	0012	14689	740							
	049	OBS	0026	0453	34670	2749			14691	746							
		STD	0030	0454	3472	2750	0005992	0018	14671	745							
		STD	0050	0210	3488	2789	0005273	0025	14594	739							
	049	OBS	0052	0196	34884	2790			14588	738							
		STD	0075	0047	3489	2798	0005403	0030	14548	749							
	049	OBS	0078	0380	34844	2799			14544	750							
		STD	0100	0047	3490	2802	0005023	0033	14530	746							
	049	OBS	0105	0039	34902	2803			14527	747							
		STD	0125	0008	3490	2804	0005079	0035	14516	750							
		STD	0150	-0024	3490	2806	0005012	0037	14506	753							
	049	OBS	0156	-0030	34903	2806			14504	754							
		STD	0200	-0056	3492	2809	0005019	0039	14499	739							
	049	OBS	0210	-0003	34924	2810			14495	755							
	049	OBS	0220	-0005	34940	2812			14492	711							

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DATE DD-MO-YY	MARS DEN		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CRUISE CODE	ID. NO.					10°	1°	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE	
311165	EW	75505N	047420E	284	57	09	13	062	1967		078	0244	02	34	1				6	7		0083

WATER		WIND		BARO-METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. UNIT	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
05	30	3	505	110	000	-007	8	07	

MESSAGE	CARD	CARD	DEPTH	T °C	S %	SIGMA-T	SPECIFIC VOLUME	S Δ D	SOUND	O ₂ ml/l	PO ₂ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	TYPE	(m)				ANOMALY-107	BYN. M. x 10 ³	VELOCITY		μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l		C
HR 1/10																	
		STD	0000	0220	3467	2725	0008304	0000	14579	772							
	082	OBS	0000	0220	3467	2725			14579	772							
	082	OBS	0005	0220	34693	2725			14580	780							
		STD	0010	0221	34697	2725	0008323	0008	14581	770							
	082	OBS	0010	0221	34689	2725			14581	770							
		STD	0020	0270	3416	2720	0008180	0017	14503	760							
	082	OBS	0025	0277	34220	2731			14510	764							
		STD	0030	0241	3439	2747	0008212	0024	14597	767							
		STD	0050	0131	3485	2792	00081924	0032	14558	750							
	082	OBS	0052	0123	34880	2795			14558	747							
		STD	0075	0071	3491	2802	00081088	0036	14536	751							
	082	OBS	0078	0004	34915	2802			14534	751							
		STD	0100	0004	3491	2805	00080692	0036	14510	764							
	082	OBS	0104	-0005	34911	2806			14507	766							
		STD	0125	-0023	3491	2807	00080551	0039	14502	764							
		STD	0150	-0042	3491	2805	00080439	0041	14497	762							
	082	OBS	0155	-0040	34914	2808			14496	762							
		STD	0200	-0077	3493	2811	00080145	0042	14490	725							
	082	OBS	0209	-0082	34932	2811			14489	714							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	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. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
06	20	00	500	097	-004	-014	8	10															

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	CTD
		STD	0000	0267	3407	2720	0008817	0000	14599	765							
114	OBS	0000	0267	34071	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	764							
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	784							
114	OBS	0153	-0079	34905	2809				14481	784							
	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 +	LONGITUDE +	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	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. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
05	28	17	507	052	005	000	8	09															

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	CTD
		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	0011692	0012		14541	788							
	STD	0020	0103	3375	2706	0010090	0023		14526	806							
153	OBS	0024	0080	33856	2716				14517	811							
	STD	0030	0004	3414	2743	0006577	0031		14488	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	738							
153	OBS	0143	0022	34940	2807				14526	745							
	STD	0150	0014	3494	2807	0000534	0048		14523	748							
153	OBS	T0186	-0035	34921	2808				14507	761							

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC 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	75291N	042258E		284	52	09	13	210	1967	089	0279	03	23	4			61	7	6		0086
						WATER		WIND				AIR TEMP. °C											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									11	513	969	038	048	6	10								
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	S CC					
		STD	0000	0311	3420	2726	0008244		0000	14620	759												
210		OBS	0000	0311	34190	2726	14620			759													
210		OBS	0005	0310	34196	2726	14620			758													
		STD	0010	0311	3420	2726	0008220		0008	14622	755												
210		OBS	0010	0311	34200	2726	14622			755													
		STD	0020	0315	3420	2726	0008214		0016	14624	755												
210		OBS	0025	0314	34206	2726	14625			755													
		STD	0030	0188	3435	2748	0006109		0024	14573	767												
210		OBS	0048	-0100	34728	2795	14451			791													
		STD	0050	-0097	3474	2796	0001552		0031	14453	769												
210		OBS	0073	-0067	34833	2802	14472			760													
		STD	0075	-0064	3484	2803	0000915		0034	14474	767												
210		OBS	0097	-0038	34879	2805	14490			757													
		STD	0100	-0038	3488	2805	0000726		0036	14491	757												
		STD	0125	-0033	3490	2806	0000591		0038	14497	759												
210		OBS	0146	-0030	34908	2807	14502			760													
		STD	0150	-0034	3491	2807	0000509		0039	14501	760												
210		OBS	T0195	-0075	34922	2810	14490			755													
		STD	0200	-0079	3492	2810	0000182		0041	14489	753												
		STD	0250	-0115	3495	2814	-0000163		0041	14481	717												
210		OBS	T0266	-0125	34954	2814	14479			697													

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SURF PRESSURE	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
						10'	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165		EW	75065N	044270E		284	54	09	14	013	1967	088	0274	03	1	3			54	6	8		0087
						WATER		WIND		BARD- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									11	524	936	046	034	8	10								
MISSING TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	S CC					
		STD	0000	0511	3460	2737	0007198		0000	14704	716												
		OBS	0000	0511	34579	2737	14709			716													
014		OBS	0006	0511	34604	2737	14710			720													
		STD	0010	0512	3460	2736	0007251		0007	14711	716												
014		OBS	0010	0512	34545	2736	14711			716													
		STD	0020	0518	3460	2736	0007288		0014	14715	714												
014		OBS	0026	0521	34623	2737	14718			712													
		STD	0030	0460	3469	2750	0005995		0021	14694	712												
		STD	0050	0229	3491	2790	0002204		0024	14612	714												
014		OBS	0050	0229	34904	2790	14602			714													
		STD	0075	0107	3491	2799	0001308		0034	14555	740												
014		OBS	0075	0107	34911	2799	14555			740													
		STD	0100	0024	3490	2803	0000922		0037	14519	763												
014		OBS	0100	0024	34896	2803	14519			763													
		STD	0125	-0023	3489	2805	0000718		0039	14502	762												
		STD	0150	-0055	3489	2807	0000542		0040	14489	761												
014		OBS	0151	-0060	34889	2807	14489			761													
		STD	0200	-0094	3490	2809	000306		0042	14401	767												
014		OBS	T0200	-0094	34899	2809	14481			767													
		STD	0250	-0113	3493	2812	-0000025		0043	14401	760												
014		OBS	T0271	-0116	34950	2814	14484			690													

REFERENCE CTRY CODE	SHIP CODE IO. NO.	LATITUDE * 1/10	LONGITUDE * 1/10	DIFF INCR	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)													
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	(mbs)	DRY BULB	WET BULB											
					06	27	06	518	946	031	023	7	10									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ 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	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	14523	728												
047		OBS	T0246	-0048	34910	2808			14510	712												

REFERENCE CTRY CODE	SHIP CODE IO. NO.	LATITUDE * 1/10	LONGITUDE * 1/10	DIFF INCR	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)													
311165	EW	74390N	046000E		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	(mbs)	DRY BULB	WET BULB											
					05	27	01	515	955	028	011	7	10									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ 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	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	3468	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	0068	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		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT FOOT	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES		WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER					
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.	1/10		CRUISE NO.	STATION NUMBER	DIR.	HGT	PER		SEA	TYP		AMT				
311165	EW		74243N	049373E		284	49	09	14	112	1967		085		0144	01	03	4			6	7		0090			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB															
						06	20	03	S15	975		019	006	7	08												
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C										
		STD	0000	0414	3440	2732	0007676	0000	14666	745																	
113		OBS	0000	0414	34399	2732			14666	745																	
113		OBS	0006	0413	34403	2732			14667	742																	
		STD	0010	0414	3440	2732	0007669	0008	14666	744																	
113		OBS	0011	0414	34401	2732			14668	744																	
		STD	0020	0414	3440	2732	0007673	0015	14670	743																	
113		OBS	0027	0414	34403	2732			14671	743																	
		STD	0030	0343	3444	2742	0006713	0023	14642	751																	
		STD	0050	-0003	3466	2785	0002576	0032	14495	783																	
113		OBS	0053	-0035	34688	2789			14461	785																	
		STD	0075	-0083	3483	2803	0000912	0036	14465	764																	
113		OBS	0080	-0095	34849	2805			14460	762																	
		STD	0100	-0158	3485	2807	0000481	0038	14434	766																	
113		OBS	0106	-0162	34853	2807			14433	767																	
113		OBS	0124	-0133	34894	2810			14451	740																	

REFERENCE		SHIP	LATITUDE	LONGITUDE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.	SHIP CODE	1/10	1/10			10"	1"			MO	DAY	HR	1/10		DIR	HT		PER	SEA
311165	EW		74105N	051153E	283	41	09	14	143	1967	084	0166	01	36	5			6	8	0071
		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		20	35	S18	980	012	001	7	00									
MESSAGE TIME 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S	C		
		STD	0000	0341	3422	2725	0008344	0000	14633	759										
143		OBS	0000	0341	34218	2725			14633	759										
143		OBS	0005	0341	34210	2724			14634	761										
		STD	0010	0342	3422	2724	0008376	0008	14635	762										
143		OBS	0010	0342	34216	2724			14635	762										
		STD	0020	0342	3422	2724	0008391	0017	14637	763										
143		OBS	0025	0342	3414	2724			14638	763										
		STD	0030	0242	3434	2743	0006558	0024	14547	782										
		STD	0050	-0037	3477	2791	0002077	0033	14480	814										
143		OBS	0050	-0037	3477	2791			14480	814										
		STD	0075	-0117	3483	2804	0006805	0037	14444	761										
143		OBS	0075	-0117	34827	2804			14449	761										
		STD	0100	-0143	3483	2805	0006877	0038	14441	760										
143		OBS	0110	-0155	3485	2807			14437	771										
		STD	0125	-0160	3489	2811	0006132	0039	14434	767										
143		OBS	0139	-0170	34937	2815			14432	750										

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	MARSDEN SQUARE		STATION TIME				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER						
					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT					
311165	EW	7356 N	052530 E	283	30	09	14	172	1967		083	0125	01	01	4				3d	06		0092						
				WATER		WIND		BARO-METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
				COLOR CODE		TRANS. (m)		SPEED OR FORT. (kts)		DRY BULB					WET BULB													
								30		520		970		016		011		7		08								
MESSAGE	CARD	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	ANOMALY-σ _t	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S	C										
TIME	NO.																											
1/10		TYPE	(m)								μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l	μg - dl/l													
		STD	0000	0531	3375	2667	0013801	0000	14706	741																		
173		OBS	0000	0531	33746	2667			14706	741																		
173		OBS	0005	0532	33722	2667			14707	714																		
173		OBS	0009	0533	33762	2668			14709	712																		
		STD	0010	0532	3382	2673	0013283	0014	14709	713																		
		STD	0020	0513	3433	2715	0007260	0023	14710	718																		
173		OBS	0024	0501	34474	2718			14708	723																		
		STD	0030	0480	3454	2736	0007333	0033	14701	725																		
173		OBS	0046	0372	34703	2760			14661	742																		
		STD	0050	0342	3472	2764	0004611	0045	14644	747																		
173		OBS	0072	0119	34817	2791			14556	768																		
		STD	0075	0117	3482	2791	0002065	0053	14556	763																		
173		OBS	0096	0091	34837	2794			14548	729																		
		STD	0100	0084	3484	2794	0001743	0058	14545	722																		
173		OBS	0122	0030	34826	2797			14524	681																		

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARS SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
311165		EW	72575N	051370E		283	21	09	14	227	1967		096	0037	01	01	4			73	78		0093	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	(mbs)	DRY BULB	WET BULB															
					01	S21	979	010	006	6	00													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	STATION NUMBER							
		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	3379	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	3479	2799	0001259	0050	14469	770														
	228	OBS	T0083	-0075	34835	2803			14470	716														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10°	1°	MO	DAY		HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
311	165	EW	73110N	050080E		283	30	09	15	025	1967		095		0236	02	36	7				5	8		0094
		WATER				WIND				AIR TEMP. °C															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbs)		DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					36	S22	996	014	000	8	09														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH						
		STD	0000	0668	3470	2725		0008339		0000		14774	692												
	026	OBS	0000	0668	34698	2725						14774	692												
	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		0003515		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		14563	730												
	026	OBS	T0206	0075	34998	2808						14561	732												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./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)	(mbs)	DRY BULB	WET BULB														
					01	S24	015	017	009	5	09												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NUMBER						
		STD	0000	0610	3472	2734	0007448	0000	14751	703													
	069	OBS	0000	0610	34720	2734			14751	703													
	069	OBS	0005	0611	34719	2734			14752	716													
		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	699													
		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	OBS. INDIC.	MARSDEN SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA	TYPE	AMTS	
311165		EW	73380N	046580E		284	36	09	15	170	1967		093		0274	02	15	0			518		0096		
						WATER		WIND		AIR TEMP. °C		BARO- METER (mba)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE																
									02	S21	118	017	-001	8	10										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C							
		STD	0000	0585	3475	2740	0006921		0000	14742	714														
170		OBS	0000	0585	34750	2740				14742	714														
170		OBS	0005	0585	34748	2739				14742	708														
170		OBS	0009	0585	34749	2739				14743	705														
		STD	0010	0585	3475	2739	0006943		0007	14743	705														
		STD	0020	0586	3475	2739	0006972		0014	14745	704														
170		OBS	0024	0566	34747	2739				14746	703														
		STD	0030	0585	3475	2739	0006992		0021	14746	703														
170		OBS	0048	0582	34743	2739				14748	703														
		STD	0050	0546	3476	2745	0006452		0034	14734	703														
170		OBS	0072	0262	34929	2788				14621	703														
		STD	0075	0252	3493	2789	0002249		0045	14617	712														
170		OBS	0096	0185	34945	2796				14591	761														
		STD	0100	0160	3494	2797	0001524		0050	14584	760														
		STD	0125	0078	3493	2802	0000989		0053	14543	754														
170		OBS	0145	0022	34922	2805				14526	752														
		STD	0150	0013	3492	2805	0000680		0055	14523	754														
170		OBS	T0192	-0049	34910	2806				14501	755														
		STD	0200	-0058	3492	2809	0000348		0058	14498	753														
170		OBS	T0229	-0086	34935	2811				14490	739														

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARSDEN SQUARE	STATION TIME IGMT1		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	IO NO	NODC STATION NUMBER	
							10"	1"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER					SEA
311165		EW	73500N	045225E		284	35	07	15	1967	092	0325	03	04	8		75	518		0097	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB									
									36	S19	154	017	007	8	10						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ D DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C			
		STD	0000	0541	3473	2744	0006532		0000	14723	731										
209		OBS	0000	0541	34733	2744				14723	731										
209		OBS	0005	0542	34735	2744				14725	714										
		STD	0010	0542	3474	2744	0006534		0007	14726	714										
209		OBS	0010	0542	34736	2744				14726	714										
		STD	0020	0543	3474	2744	0006556		0013	14728	709										
209		OBS	0023	0543	34736	2744				14728	706										
		STD	0030	0405	3477	2762	0004826		0019	14673	749										
209		OBS	0046	0151	34830	2789				14566	805										
		STD	0050	0099	3484	2794	0001789		0025	14544	801										
209		OBS	0070	-0072	34874	2806				14470	780										
		STD	0075	-0076	3487	2806	0000610		0028	14469	783										
209		OBS	0093	-0099	34881	2807				14465	774										
		STD	0100	-0093	3488	2807	0000468		0030	14465	775										
		STD	0125	-0102	3489	2806	0000394		0031	14465	777										
209		OBS	0142	-0106	34889	2808				14466	778										
		STD	0150	-0106	3489	2809	0000340		0032	14467	773										
209		OBS	T0191	-0111	34915	2811				14472	750										
		STD	0200	-0113	3492	2811	0000067		0033	14473	745										
		STD	0250	-0133	3495	2814	-0000258		0032	14472	719										
209		OBS	T0260	-0150	34971	2817				14470	705										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
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		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		(mba)	DRY BULB	WET BULB											
								02	S12	172	016	003	8	10										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC						
		STD	0000	0441	3464	2748	0006139	0000	14681	787														
010		OBS	0000	0441	34640	2748			14681	787														
010		OBS	0006	0441	34637	2748			14682	736														
		STD	0010	0441	3464	2747	0000187	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	14659	744														
		STD	0050	0044	3486	2799	0001305	0025	14519	789														
010		OBS	0054	0001	34875	2803			14501	793														
		STD	0075	-0068	3487	2805	0000669	0027	14472	776														
010		OBS	0082	-0083	34868	2806			14467	772														
		STD	0100	-0099	3487	2807	0000543	0029	14462	772														
010		OBS	0109	-0105	34870	2807			14461	768														
		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	-0158	34966	2816			14474	690														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311	165	EW	74185N	042080E		284	42	09	16	052	1967	090		0248	02	30	5				6	7	0099	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		(mba)	DRY BULB	WET BULB											
						06	32	30	S13	197	016	002	8	10										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC						
		STD	0000	0379	3423	2722	0008615	0000	14649	744														
		OBS	0000	0379	34229	2722			14649	744														
052		OBS	0005	0381	34218	2721			14651	750														
		STD	0010	0379	3423	2722	0008601	0009	14651	754														
		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	34814	2802			14461	793														
		STD	0075	-0145	3482	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	-0106	3489	2808	0000357	0039	14468	775														
052		OBS	0154	-0105	34890	2809			14469	773														
		STD	0200	-0106	3492	2811	0000096	0040	14476	741														
052		OBS	T0208	-0109	34930	2812			14476	731														
052		OBS	T0240	-0127	34954	2814			14473	680														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CITY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER				DIR.	HGT.	PER	SEA		TYPE	AMT						
311165		EW	73188N	041140E		284	31	09	16	111	1967		103		0301	03	01	3				617		0100					
		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	27	31	S13	206	044	029	8	10																		
MESSING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC												
		STD	0000	0513	3458	2735	0007370	0000	14710	720																			
	111	OBS	0000	0513	34579	2735			14710	720																			
	111	OBS	0004	0515	34575	2734			14711	726																			
	111	OBS	0009	0514	34572	2734			14712	728																			
		STD	0010	0514	3457	2734	0007446	0007	14712	727																			
		STD	0020	0515	3458	2734	0007444	0015	14714	720																			
	111	OBS	0023	0515	34576	2734			14715	710																			
		STD	0030	0306	3468	2765	0004569	0021	14629	773																			
	111	OBS	0047	-0029	34833	2801			14485	836																			
		STD	0050	-0042	3484	2802	0001017	0020	14460	824																			
	111	OBS	0069	-0101	34862	2806			14456	772																			
		STD	0075	-0103	3486	2806	0000574	0028	14456	773																			
	111	OBS	0095	-0108	34869	2807			14457	774																			
		STD	0100	-0111	3487	2807	0000490	0030	14450	775																			
		STD	0125	-0121	3487	2807	0000444	0031	14456	779																			
	111	OBS	0142	-0122	3487	2808			14458	782																			
		STD	0150	-0117	3489	2809	0000297	0032	14462	774																			
	111	OBS	0189	-0103	34928	2812			14476	741																			
		STD	0200	-0103	3494	2812	-0000044	0032	14478	733																			
		STD	0250	-0122	3497	2816	-0000367	0031	14478	704																			
	111	OBS	0283	-0153	34981	2818			14469	692																			

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CITY CODE	ID. NO.					10°	1°	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER				DIR.	HGT.	PER		SEA	TYPE		AMT					
311165		EW	73185N	041244E		284	32	09	16	143	1967		102		0334	03	02	3				618		0101					
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	24	34	S10	205	035	027	8	10																					
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	SC												
		STD	0000	0407	3458	2738	0007084	0000	14699	728																			
	143	OBS	0000	0487	3457	2738			14699	728																			
	143	OBS	0005	0488	34581	2738			14701	738																			
	143	OBS	0007	0487	34583	2738			14701	738																			
		STD	0011	0487	3458	2738	0007066	0007	14711	737																			
		STD	0020	0488	3458	2738	0007077	0014	14703	730																			
	143	OBS	0025	0488	34584	2738			14704	720																			
		STD	0030	0353	3466	2759	0005149	0020	14609	743																			
		STD	0050	-0014	3466	2802	0001000	0026	14493	780																			
	143	OBS	0100	-0014	3465	2802			14493	780																			
		STD	0075	-0032	3467	2806	000584	0028	14466	755																			
	143	OBS	0075	-0001	34674	2805			14466	910																			
	143	OBS	0094	-0088	34691	2805			14467	743																			
		STD	0100	-0088	3469	2808	0000418	0030	14467	744																			
		STD	0125	-0047	3469	2808	0000363	0031	14468	762																			
		STD	0150	-0105	3470	2809	0000307	0031	14468	779																			
	143	OBS	0151	-0105	34695	2809			14468	780																			
		STD	0200	-0104	3464	2813	-0000048	0032	14477	747																			
	143	OBS	0202	-0104	34645	2813			14478	746																			
		STD	0250	-0110	3467	2815	-0000350	0031	14465	710																			
		STD	0300	-0147	3498	2817	-0000561	0029	14474	692																			
	143	OBS	0316	-0159	34983	2818			14471	684																			

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		72502N	044280E		284	24	09	16	178	1967		101	0306	03	01	5			5	7	0102	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									02	532	197	034	017	8	10								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S 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	14738	708													
178		OBS	0010	0574	34692	2736			14738	708													
		STD	0020	0573	3470	2737	0007214	0014	14739	708													
178		OBS	0027	0573	34698	2737			14740	708													
		STD	0030	0532	3472	2744	0006565	0021	14725	707													
		STD	0050	0336	3483	2774	0003726	0032	14647	697													
178		OBS	0053	0318	34847	2777			14641	695													
		STD	0075	0305	3493	2785	0002710	0040	14640	700													
178		OBS	0080	0293	34945	2787			14636	704													
		STD	0100	0206	3495	2795	0001739	0045	14601	740													
178		OBS	0106	0179	34953	2797			14590	748													
		STD	0125	0063	3492	2803	0000971	0049	14541	758													
		STD	0150	-0046	3408	2805	0000679	0051	14495	768													
178		OBS	0157	-0067	34876	2806			14486	770													
		STD	0200	-0093	3488	2807	0000471	0054	14482	774													
178		OBS	T0211	-0098	34878	2807			14481	775													
		STD	T0250	-0110	3490	2810	0000216	0055	14482	758													
178		OBS	T0298	-0113	34954	2814			14490	714													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		72363N	045240E		284	25	09	16	212	1967		100	0291	03	01	2		51	57		0103
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
									30	502	193	036	027	8	10							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	0674	3469	2723	0008499	0000	14776	692												
		OBS	0000	0674	34687	2723			14776	692												
212		OBS	0005	0673	34687	2723			14777	693												
		STD	0010	0674	3469	2723	0008470	0008	14778	692												
		OBS	0010	0674	34673	2723			14778	692												
		STD	0020	0675	3469	2723	0008502	0017	14760	691												
212		OBS	0024	0675	34691	2723			14781	690												
		STD	0030	0572	3473	2740	0006956	0025	14741	693												
212		OBS	0040	0345	34649	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	0002353	0043	14626	709												
212		OBS	0098	0200	34943	2795			14598	702												
		STD	0100	0189	3494	2795	0001683	0048	14594	735												
		STD	0125	0075	3492	2802	0001046	0051	14547	761												
212		OBS	0147	0006	34908	2805			14519	772												
		STD	0150	0003	3491	2805	0000701	0053	14518	771												
212		OBS	T0198	-0037	34927	2809			14508	755												
		STD	T0200	-0039	3493	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 * 1/10	LONGITUDE * 1/10	MARS DEN STATION 1/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10'	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311	105	EW	72270N	047150E	284	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 OR FORCE	DRY BULB	WET BULB																		
			27	508	192	043	027	6	09														

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0660	3464	2720	0008754	0000	14772	689							
	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							
	007	OBS	0010	0660	34630	2719			14774	689							
		STD	0020	0660	3463	2719	0008859	0018	14776	688							
	007	OBS	0024	0666	34629	2719			14776	688							
		STD	0030	0569	3467	2735	0007369	0026	14739	688							
	007	OBS	0049	0356	34769	2767			14655	688							
		STD	0050	0352	3477	2767	0004328	0037	14653	688							
	007	OBS	0073	0289	34791	2775			14631	692							
		STD	0073	0287	3400	2776	0003530	0047	14630	692							
	007	OBS	0096	0265	34644	2781			14625	690							
		STD	0100	0262	3465	2782	0002991	0055	14624	690							
		STD	0125	0231	3485	2785	0002087	0063	14615	692							
	007	OBS	0140	0206	34660	2788			14608	691							
		STD	0150	0204	3466	2788	0002421	0069	14607	691							
		STD	0200	0163	3469	2793	0001914	0060	14598	697							
	007	OBS	10217	0152	34500	2775			14590	699							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INDEX	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS	WEA- THIR CODE	CLOUD CODES	NODC STATION NUMBER
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR.	1/10						
311105	EW	72105N	048508E	284	28	03	17	036	1967	098	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												
10	07	26	509	174	038	020	8	07										

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0579	3472	2738	0007081	0000	14739	700							
	037	OBS	0000	0579	34719	2738			14739	700							
	037	OBS	0005	0580	34716	2737			14740	714							
		STD	0010	0579	3472	2738	0007125	0007	14740	700							
	037	OBS	0010	0579	34715	2738			14740	700							
		STD	0020	0580	3471	2737	0007162	0014	14742	734							
	037	OBS	0025	0580	34712	2737			14743	741							
		STD	0030	0480	3474	2751	0005835	0021	14703	735							
		STD	0050	0205	3482	2784	0002090	0029	14591	710							
	037	OBS	0050	0205	34819	2784			14591	710							
		STD	0075	0143	3482	2789	0002243	0035	14567	710							
	037	OBS	0075	0143	34820	2789			14567	710							
	037	OBS	0095	0071	34803	2793			14538	672							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	CRUISE NO.	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DR.	HGT		PER	SEA	
311105		EW	7155. N	050220 E	283	20	09	17	066	1967		097	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 OR FORCE		DRY BULB	WET BULB																
07	26	27	509	159	040	024	7	07														

MESSAGE TIME & HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C C
		STD	0000	0606	3448	2715	0009210	0000	14747	686							
	066	OBS	0000	0608	34481	2715			14747	686							
	066	OBS	0005	0608	34475	2715			14748	690							
		STD	0010	0608	3448	2715	0009239	0009	14749	686							
	066	OBS	0010	0608	34479	2715			14749	686							
		STD	0020	0605	3453	2720	0009038	0018	14750	689							
	066	OBS	0025	0604	34558	2722			14751	690							
		STD	0030	0543	3460	2733	0007509	0026	14727	713							
		STD	0050	0316	3473	2767	0004527	0038	14638	762							
	066	OBS	0050	0316	34726	2767			14638	762							
		STD	0075	0069	3400	2793	0001911	0046	14534	728							
	066	OBS	0075	0069	34800	2793			14534	728							
		STD	0100	0019	3462	2797	0001510	0050	14516	662							
	066	OBS	0104	0011	34817	2797			14513	649							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DUFF INDEX	MARSOEN SQUARE		STATION TIME IGMTI				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
311	165	EW	70435N	051180E	283	01	09	17	126	1967		110		0101	01	30	2			40	7	8	0107	
						WATER		WIND				AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						06	17	26	513	151	053		048	5	06									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		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	0008	14751	696							
	126	OBS	0010	0609	34632	2727			14751	696							
		STD	0020	0609	3463	2727	0008114	0016	14753	694							
	126	OBS	0025	0609	34633	2727			14754	693							
		STD	0030	0467	3464	2745	0006445	0024	14697	693							
		STD	0050	0070	3468	2783	0002643	0033	14529	691							
	126	OBS	0050	0070	34678	2783			14529	691							
		STD	0075	0050	3471	2786	0002482	0039	14524	677							
	126	OBS	0085	0042	34721	2788			14522	668							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DIESEL INDEX	MARSOEN SQUARE	STATION TIME IGMTI				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	165	EW	70570N	045530E	284	09	09	17	154	1967		109		0115	01	30	2				7	8	0108
							WATER		WIND			AIR TEMP. °C											
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									29	515	139	064	050	07									

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		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	696							
		STD	0050	0199	3474	2779	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	2768			14531	641							

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DIESEL INDEX	MARSOEN SQUARE	STATION TIME IGMTI				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311	165	EW	71070N	048286E	284	18	09	17	185	1967		108		0146	01	31	6				5	5	0109
							WATER		WIND			AIR TEMP. °C											
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
									32	520	115	051	039	8	00								

MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0660						679							
	185	OBS	0000	0660	34750	27300				679							
	185	OBS	0006	0659	34692	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		14700	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	682							
	185	OBS	0110		34760				668								
		STD	0125	0092	3476	2788	0002370		14552	639							
	185	OBS	0131	0002	34752	2788			14548	624							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311	165	EW	71220N	047000E	284	17	09	17	213	1967	107	0128	01	31	7			5	5	0110	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO.	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS
			33	515	097	039	033	6	07												

MESSAGE TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	ST CODE
		STD	0000	0692	3465	2717	0009024	0000	14783	664							
213		OBS	0000	0692	34648	2717			14783	664							
213		OBS	0005	0691	34648	2717			14783	668							
		STD	0010	0693	3465	2717	0009067	0009	14785	669							
213		OBS	0010	0693	34646	2717			14785	669							
		STD	0020	0693	3465	2717	0009054	0018	14786	668							
213		OBS	0025	0693	34656	2718			14787	668							
		STD	0030	0698	3469	2732	0007690	0026	14755	673							
		STD	0050	0351	3478	2768	0004236	0038	14653	685							
213		OBS	0050	0351	34781	2768			14653	665							
		STD	0075	0221	3462	2783	0002619	0047	14602	687							
213		OBS	0075	0221	34621	2783			14602	687							
		STD	0100	0169	3484	2789	0002288	0054	14583	674							
213		OBS	0100	0168	34843	2789			14584	668							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	16	EW	7124 N	047000E	284	17	09	18	213	1967	107	0073	01	33	8			5	8	0111	
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRAN- SM.	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO.	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS
			34	15	075	042	031	04													

MESSAGE TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	ST CODE
		STD	0000	03	346	2722	0008018	0000	14754	698							
21		OBS	0000	03	34678	2722			14754	698							
21		OBS	0000	0351	34678	2723			14760	681							
		STD	0010	0341	3468	2726	0008018	0005	14761	680							
		OBS	0010	034	346	2726			14762	676							
		STD	0020	032	345	272	0008018	0016	14702	676							
		STD	0030	03	34	2737	0008018	0024	14734	677							
		STD	0050	0245	3477	277	0008018	0034	1468	677							
1		STD	0050	0245	3477	277			1467	677							

REF-EPN I		P	LAT	N	E	MARS N SQUARE	STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BT (M)	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
TRY	ID						NO	HR		MIN	CRUISE NO			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
311	167	EW	7124	N	047000	E	17	09	20	213	1967	0072	01	34	9			6	8	0112	
WATER		WIND		BARO- METER		AIR TEMP °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRAN- SM.	DR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	NO.	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS	DEPTHS
			36	22	080	044	024	7	30												

MESSAGE TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	ST CODE
		STD	0000	034	346	271	0007212	0000	1472	677							
68		OBS	0000	0344	3462	2725			14702	677							
68		OBS	0005	03	3462	2725			14782	677							
68		OBS	0005	034	346	2716			14783	675							
		STD	0010	034	3462	2726	0007212	0009	14783	674							
		STD	0020	034	3462	2726	0007212	0010	14785	671							
68		OBS	0020	034	3462	2726			14785	671							
		STD	0030	0314	346	2710	0007212	0026	14780	671							
68		OBS	0030	0314	346	2720			14710	670							
		STD	0050	0457	3472	2752	0007212	0042	14677	666							
68		OBS	0050	0336	34770	276			14640	662							
		STD	0075	024	3479	2775	0007212	0054	14632	676							
68		OBS	0075	0276	3478	2777			14627	682							
		STD	0100	0258	3482	2782	0007212	0062	14613	664							
		STD	0125	0222	348	2785	0007212	0067	14606	660							
68		OBS	0125	0209	3403	2785			14606	679							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				CLOUD CODES	NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER			SEA	WEA- THER CODE	TYPE
311165		EW	72000N	042330E		284	22	09	18	116	1907		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. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
		07	17	36	520	135	032	025	7	09													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C						
		STD	0000	0675	3469	2723	0008467	0000	14777	693													
116		OBS	0000	0675	34693	2723			14777	693													
116		OBS	0004	0674	34689	2723			14777	693													
116		OBS	0009	0674	34699	2724			14778	690													
		STD	0010	0674	3470	2724	0008434	0008	14778	690													
		STD	0020	0675	3469	2723	0008510	0017	14780	692													
116		OBS	0022	0675	34689	2723			14760	692													
		STD	0030	0527	3473	2745	0008433	0024	14723	692													
116		OBS	0045	0345	34801	2771			14650	691													
		STD	0050	0339	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	14633	708													
		STD	0125	0233	3494	2792	0002032	0055	14617	717													
		STD	0150	0174	3494	2790	0001614	0060	14595	724													
		STD	0200	0016	3493	2806	0000645	0066	14532	730													
116		OBS	T0214	-0033	34924	2808			14510	730													

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS SQUARE	STATION TIME IGMT					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW	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. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
07	16	07	502	235	056	041	8	10															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C						
		STD	0000	0868	3416	2653	0015081	0000	14844	679													
118		OBS	0000	0868	34164	2653			14844	679													
118		OBS	0005	0866	34164	2654			14844	696													
		STD	0010	0873	3418	2654	0015085	0015	14846	683													
118		OBS	0010	0873	34176	2654			14846	683													
		STD	0020	0894	3438	2666	0013902	0030	14860	660													
118		OBS	0025	0904	34464	2671			14866	651													
		STD	0030	0849	3452	2684	0012214	0043	14847	649													
		STD	0050	0688	3471	2723	0008588	0063	14790	641													
118		OBS	0051	0683	34717	2724			14789	641													
		STD	0075	0626	3486	2743	0006710	0083	14772	648													
118		OBS	0076	0624	34869	2744			14771	646													
		STD	0100	0597	3498	2756	0005489	0098	14766	642													
118		OBS	0102	0594	34982	2757			14765	641													
		STD	0125	0526	3500	2767	0004521	0110	14741	647													
		STD	0150	0471	3501	2774	0003851	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	2782	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	DUST BUCKET	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				CLOUD CODES	NODC STATION NUMBER				
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			WEA- THER CODE	TYPE	AMT	
311165	EW		71570N	026270E		286	16	09	19	149	1967	112		0289	03	07	2			6	8		0115		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						06	15	10	S02	235	053	039	8	10											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C							
		STD	0000	0839	3466	2697	0010987		0000	14840	662														
	149	OBS	0000	0839	34658	2697				14840	662														
	149	OBS	0005	0837	34660	2697				14840	660														
		STD	0010	0838	3466	2697	0010961		0011	14841	657														
	149	OBS	0010	0838	34662	2697				14841	657														
		STD	0020	0838	3468	2699	0010846		0022	14843	660														
	149	OBS	0026	0824	34707	2703				14839	661														
		STD	0030	0791	3475	2711	0009667		0032	14828	661														
		STD	0050	0653	3491	2743	0000042		0048	14779	660														
	149	OBS	0053	0636	34920	2746				14773	660														
		STD	0075	0545	3494	2760	0005127		0063	14740	674														
	149	OBS	0079	0532	34944	2761				14730	675														
		STD	0100	0480	3495	2768	0004357		0075	14718	666														
	149	OBS	0105	0471	34949	2769				14715	665														
		STD	0125	0467	3498	2772	0004003		0085	14717	666														
		STD	0150	0455	3500	2775	0003750		0095	14710	660														
	149	OBS	0157	0451	35000	2776				14716	668														
		STD	0200	0410	3501	2781	0003240		0113	14700	661														
	149	OBS	0207	0404	35015	2782				14705	660														
		STD	0250	0386	3501	2783	0003045		0128	14704	657														
	149	OBS	0281	0383	35009	2783				14708	657														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT	PER		SEA
311105	EW		72310N	025540E	286	25	04	19	1067	113		0206	02	04	2			5	8	0116
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE		DRY BULB	WET BULB								
								17	S11	253	053	057	8	10						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C			
		STD	0000	0708	3402	2717	0007057	0000	14872	666										
	186	OBS	0000	0788	34819	2717			14822	666										
	186	OBS	0005	0788	34819	2717			14823	666										
		STD	0010	0789	3482	2717	0009104	0009	14824	667										
	186	OBS	0010	0789	34817	2717			14824	667										
		STD	0020	0790	3483	2716	0007036	0018	14826	660										
	186	OBS	0024	0730	34834	2718			14827	660										
		STD	0030	0742	3486	2727	0008164	0027	14810	662										
	186	OBS	0049	0638	34934	2747			14773	650										
		STD	0050	0637	3494	2746	0000215	0041	14773	650										
	186	OBS	0073	0611	35035	2759			14700	645										
		STD	0075	0609	3504	2759	0005154	0055	14767	645										
	186	OBS	0078	0580	35065	2765			14760	650										
		STD	0100	0577	3507	2765	0004609	0066	14759	651										
		STD	0125	0544	3506	2769	0004254	0079	14750	657										
	186	OBS	0140	0521	35063	2772			14744	661										
		STD	0150	0518	3506	2772	0004011	0089	14743	662										
	186	OBS	0115	0482	35053	2776			14736	669										
		STD	0200	0478	3505	2776	0003689	0106	14735	669										
	186	OBS	0243	0440	35050	2780			14726	656										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'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	72540N	025150E		286	25	09	19	213	1967		114		0414	04	17	2				5	8	0117		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								17	505	226	054	039	8	11												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S °C								
		STD	0000	0768	3481	2719	0008881		0000	14814	590															
213		OBS	0000	0768	34805	2719				14814	590															
213		OBS	0005	0767	34805	2719				14815	597															
		STD	0010	0769	3481	2719	0008898		0009	14817	591															
213		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	0732	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	563															
213		OBS	0076	0664	35154	2761				14791	563															
		STD	0100	0620	3517	2768	0004359		0067	14778	571															
213		OBS	0102	0617	35171	2769				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															
213		OBS	T0203	0500	35131	2780				14745	589															
		STD	0250	0438	3510	2785	0002926		0121	14727	594															
		STD	0300	0367	3507	2790	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	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311165		EW	73225N	024370E	286	34	09	20	011	1967		115		0406	04	17	2				5	8	0118		
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								18		508	217	052	038	8	11										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S °C							
		STD	0000	0656	3491	2743	0006619		0000	14772	683														
011		OBS	0000	0656	34908	2743				14772	683														
011		OBS	0005	0656	34905	2742				14773	690														
		STD	0010	0657	3490	2742	0006677		0007	14774	689														
011		OBS	0010	0657	34904	2742				14774	689														
		STD	0020	0656	3491	2743	0006661		0013	14775	684														
011		OBS	0025	0655	34907	2743				14776	681														
		STD	0030	0630	3496	2750	0005947		0020	14767	676														
		STD	0050	0546	3508	2770	0004059		0030	14738	662														
011		OBS	0050	0546	35080	2770				14738	662														
		STD	0075	0480	3508	2778	0003339		0039	14715	661														
011		OBS	0076	0478	35080	2779				14715	661														
		STD	0100	0453	3508	2782	0003058		0047	14708	669														
011		OBS	0101	0452	35082	2782				14708	669														
		STD	0125	0431	3507	2783	0002940		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														
011		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														
011		OBS	T0302	0230	35032	2799				14646	612														
011		OBS	T0392	0133	35012	2805				14618	702														

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		73510N	024000E	286	34	09	20	044	1967		116		0450	04	17	2				5	8	0119
WATER						WIND			BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	MBAR	DRY BULB	WET BULB	VIS. CODE																
			16	506	205	051	039	8	12														

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	T °C
		STD	0000	0628	3492	2747	0006213	0000	14761	680							
	046	OBS	0000	0628	34915	2747			14761	686							
	046	OBS	0005	0633	34915	2746			14764	693							
		STD	0010	0626	3491	2747	0006418	0006	14762	680							
	046	OBS	0010	0626	34913	2747			14762	688							
		STD	0020	0627	3491	2747	0006264	0012	14764	691							
	046	OBS	0025	0627	34909	2747			14765	693							
		STD	0030	0594	3495	2754	0005576	0018	14753	685							
		STD	0050	0497	3506	2775	0003655	0028	14718	663							
	046	OBS	0050	0497	35059	2775			14718	663							
		STD	0075	0454	3508	2781	0003093	0036	14735	662							
	046	OBS	0076	0452	35076	2781			14734	662							
		STD	0100	0421	3506	2784	0002661	0043	14695	672							
	046	OBS	0101	0420	35052	2784			14695	672							
		STD	0125	0388	3505	2787	0002569	0050	14685	683							
		STD	0150	0358	3506	2790	0002294	0056	14676	695							
	046	OBS	0151	0357	35055	2790			14676	695							
		STD	0200	0309	3505	2794	0001926	0067	14664	700							
	046	OBS	T0204	0307	35052	2794			14663	700							
		STD	0250	0277	3505	2797	0001682	0076	14658	706							
		STD	0300	0237	3504	2799	0001433	0084	14649	712							
	046	OBS	T0303	0234	35039	2800			14648	712							
		STD	0400	0131	3501	2805	0000831	0095	14619	697							
	046	OBS	T0402	0129	35008	2805			14618	690							

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311165	EW		74210N	023290E	286	42	09	20	087	1967		117		0251	02	34	1				6 8		0120
						WATER		WIND				AIR TEMP. °C											
COLOR CODE		TRANSMI- MM	DIR.	SPEED OF FORCE	BARO- METER (mb)				DRY BULB		WET BULB		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		06	15	0	500		204		46		032		8	10									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	T °C
		STD	0000	0343	3395	2703	0010353	0000	14630	762							
	087	OBS	0000	0343	33954	2703			14630	762							
	087	OBS	0005	0343	33973	2705			14631	764							
		STD	0010	0345	3399	2706	0010137	0010	14633	760							
	087	OBS	0010	0345	33986	2706			14633	760							
		STD	0020	0442	3430	2721	0008724	0020	14680	742							
	087	OBS	0025	0408	34440	2729			14694	734							
		STD	0030	0446	3461	2745	0006446	0027	14688	724							
		STD	0050	0373	3504	2787	0002499	0036	14666	701							
	087	OBS	0051	0370	35048	2788			14665	700							
		STD	0075	0322	3504	2792	0002029	0042	14648	705							
	087	OBS	0076	0320	35041	2792			14648	705							
		STD	0100	0284	3504	2795	0001712	0047	14630	708							
	087	OBS	0101	0283	35037	2795			14636	708							
		STD	0125	0260	3503	2797	0001596	0051	14630	706							
		STD	0150	0237	3503	2799	0001416	0054	14624	704							
	087	OBS	0152	0235	35027	2799			14623	704							
		STD	0200	0191	3502	2802	0001143	0061	14612	700							
	087	OBS	T0204	0186	35016	2802			14610	700							
	087	OBS	T0238	0134	35000	2804			14593	706							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
311165	EW		74470N	022400E		286	42	09	20	118	1967		118	0099	01	34	10				08		0121			
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
		05	18	13	S02	198	026	021	8	06																
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	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	14508	828																
	118	OBS	0010	0088	33093	2654			14508	828																
		STD	0020	0014	3375	2711	0009601	0027	14485	819																
	118	OBS	0025	-0019	33996	2733			14474	813																
		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																
	118	OBS	0084	-0152	34502	2779			14429	708																

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH INCHES	MARS SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
311165	EW		75150N	022000E		286	52	09	20	146	1967		119	0055	00	33	11			6	8	0122				
						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	15	25	S07	180	034	028	8		05															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH								
		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	3307	2707	0009985		0020		14580	758														
	146	OBS	0025	0221	33876	2708					14581	757														
		STD	0030	0221	3388	2708	0009914		0030		14581	756														
		STD	0050	0219	3389	2709	0009624		0050		14584	754														
	146	OBS	0050	0219	33891	2709					14584	754														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC 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		75435N	021150E		286	51	09	20	174	1967		120	0037	00	26	12				58		0123				
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB				WET BULB															
						27		S10		173		041		029				8		05							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH			S					
		STD	0000	0275	3404	2716		0009147		0000		14602	759														
175		OBS	0000	0275	34036	2716						14602	759														
175		OBS	0005	0275	34026	2715						14603	764														
		STD	0010	0274	3403	2716		0009190		0009		14603	759														
175		OBS	0010	0274	34070	27190						14603	759														
		STD	0020	0273	3403	2716		0009180		0018		14605	759														
175		OBS	0020	0273	34031	2716						14605	755														
		STD	0030	0273	3403	2716		0009178		0028		14606	760														
175		OBS	0035	0273	34033	2716						14607	760														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DURT INCHES	MARSGEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
311165		EW	76096N	020340E		286	60	09	20	203	1967	121	0190	02	2H	2					0		0124		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
								26	S17	153	028	022	8	08											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C C								
		STD	0000	0290	3379	2695	0011123	0000	14605	771															
	203	OBS	0000	0290	33791	2695			14605	771															
	203	OBS	0005	0289	33790	2695			14606	775															
		STD	0010	0291	3381	2696	0011016	0011	14608	773															
	203	OBS	0019	0299	33837	2698			14613	770															
		STD	0020	0302	3388	2701	0010564	0022	14615	767															
		STD	0030	0330	3425	2728	0008026	0031	14634	737															
	203	OBS	0044	0344	34597	2754			14647	706															
		STD	0050	0337	3464	2758	0005167	0044	14645	705															
	203	OBS	0068	0305	34753	2771			14636	695															
		STD	0075	0282	3479	2776	0003561	0055	14628	689															
	203	OBS	0093	0238	34862	2785			14613	678															
		STD	0100	0238	3497	2786	0002601	0063	14614	678															
		STD	0125	0238	3490	2788	0002390	0069	14619	677															
	203	OBS	0142	0236	34913	2789			14621	677															
		STD	0150	0235	3491	2790	0002274	0075	14622	675															
	203	OBS	0171	0230	34915	2790			14623	669															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSGEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CITY CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.		STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
311165		EW	76270N	020080E		286	60	09	20	227	1967	122	0190	02	2H	2			5	2	0125	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	mmHg	DRY BULB	WET BULB										
									32	S10	140	027	018	8	09							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-S107	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C C					
		STD	0000	0127	3337	2674	0013132	0000	14528	801												
228		OBS	0000	0127	33369	2674			14528	801												
228		OBS	0005	0126	33367	2674			14528	805												
		STD	0010	0125	3337	2674	0013128	0013	14529	805												
228		OBS	0010	0125	33368	2674			14529	805												
		STD	0020	0074	3368	2702	0010452	0025	14512	813												
228		OBS	0025	0050	33837	2716			14506	817												
		STD	0030	0053	3402	2731	0007745	0034	14508	805												
		STD	0050	0041	3458	2777	0003390	0045	14514	753												
228		OBS	0050	0041	34581	2777			14514	753												
228		OBS	0074	0255	34917	2788			14618	680												
		STD	0075	0256	3492	2788	0002358	0052	14618	680												
228		OBS	0099	0262	34968	2792			14626	682												
		STD	0100	0262	3497	2791	0002071	0058	14626	682												
		STD	0125	0252	3495	2791	0002146	0063	14625	683												
228		OBS	0148	0203	34930	2793			14607	684												
		STD	0150	0197	3493	2794	0001645	0068	14605	684												
228		OBS	0172	0112	34882	2796			14570	679												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCH	MARSEEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
OBT CODE	ID. NO.					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	2				6	5			0127	
				WATER		WIND		AIR TEMP. °C															
				COLOR	TRANS.	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
				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-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC						
		STD	0000	0392	3407	2708	0009914	0000	14653	750													
068		OBS	0000	0392	34073	2708			14653	750													
068		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	35018	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	34999	2790	0002287	0074	14651	685													
068		OBS	0173	0296	34979	2789			14653	683													

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REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ALONG INDIC	MARSEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
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. mm	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
								27	510	142	022	018	8	06						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C			
		STD	0000	0152	3363	2693	0011302	0000	14543	801										
	142	OBS	0000	0152	33631	2693			14543	801										
	142	OBS	0005	0153	33627	2693			14544	804										
		STD	0010	0151	3363	2693	0011289	0011	14544	801										
	142	OBS	0010	0151	33632	2693			14544	801										
		STD	0020	0148	3365	2695	0011135	0023	14544	800										
	142	OBS	0025	0141	33669	2697			14542	799										
		STD	0030	0120	3372	2703	0010424	0033	14535	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	OUT MOON	MARSEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311165	EW		74175N	019580E		287	49	09	21	181	1967		127		0101	01	34	2			6	8	0130
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																	
			25	511	143	028	022	8	06														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C						
		STD	0000	0160	3359	2690	0011643	0000	14546	797													
	181	OBS	0000	0160	33593	2690			14546	797													
	181	OBS	0005	0160	33584	2689			14546	801													
		STD	0010	0164	3364	2693	0011293	0011	14550	793													
	181	OBS	0010	0164	33643	2693			14550	793													
		STD	0020	0159	3368	2697	0010981	0023	14550	790													
	181	OBS	0025	0151	33707	2699			14547	789													
		STD	0030	0129	3375	2704	0010253	0033	14539	786													
		STD	0050	0048	3392	2723	0008465	0052	14508	783													
	181	OBS	0050	0048	33922	2723			14508	783													
		STD	0075	-0039	3417	2748	0006138	0070	14476	772													
	181	OBS	0085	-0069	34276	2757			14465	767													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ALONG INDIC	MARSEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10'	1"	MO	DAY	HR.	10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311165	EW		73510N	020360E		286	30	09	21	222	1967		128	0458	04	31	2			6	8	0131	
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																	
			24	510	131	030	025	6	12														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SIO ₄ -Si μg - ml/l	pH	S C						
		STD	0000	0535	3456	2731	0007752	0000	14719	750													
	222	OBS	0000	0535	34561	2731			14719	750													
	222	OBS	0005	0535	34562	2731			14720	728													
		STD	0010	0534	3456	2731	0007783	0008	14720	726													
	222	OBS	0010	0534	34557	2731			14720	726													
		STD	0020	0620	3479	2738	0007077	0015	14759	704													
	222	OBS	0024	0634	34802	2742			14767	697													
		STD	0030	0581	3493	2754	0005569	0022	14747	687													
	222	OBS	0049	0463	35068	2779			14704	668													
		STD	0050	0462	3507	2779	0003203	0030	14704	668													
	222	OBS	0073	0426	35063	2783			14692	674													
		STD	0075	0421	3507	2784	0002804	0038	14691	675													
	222	OBS	0098	0371	35053	2788			14673	691													
		STD	0100	0369	3505	2788	0002409	0044	14673	694													
		STD	0125	0342	3505	2791	0002184	0050	14665	726													
	222	OBS	0147	0321	35050	2793			14660	739													
		STD	0150	0319	3505	2793	0001994	0055	14660	737													
	222	OBS	T0196	0265	35044	2796			14653	716													
		STD	0200	0283	3504	2795	0001776	0065	14652	717													
		STD	0250	0252	3504	2798	0001533	0073	14647	721													
	222	OBS	T0299	0217	35036	2801			14640	722													
		STD	0300	0216	3504	2801	0001281	0080	14640	722													
	222	OBS	T0399	0130	35017	2806			14618	712													
		STD	0400	0129	3502	2806	0000763	0090	14618	712													
	222	OBS	T0450	0060	34998	2806			14604	710													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
311165	EW		73278N	021160E		286	31	09	22	020	1967	129	0471	04	27	2				5	8		0132
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						CDLDR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									26	508	106	055	053	8	12								
MESSAGE TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu g - \text{ml/l}$	TOTAL-P $\mu g - \text{ml/l}$	NO ₂ -N $\mu g - \text{ml/l}$	NO ₃ -N $\mu g - \text{ml/l}$	Si O ₄ -Si $\mu g - \text{ml/l}$	pH	S CD					
		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	0566	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	2795	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	DEPT INDEX	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT			
311165	EW		72550N	021560E		286	21	09	22	062	1967	130	0430	04	26	2				6	8	0133				
						WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB														
						06	14	27	S03	100	065	052	8	11												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{ml/l}$	TOTAL-P $\mu g - \text{ml/l}$	NO ₂ -N $\mu g - \text{ml/l}$	NO ₃ -N $\mu g - \text{ml/l}$	Si O ₂ -Si $\mu g - \text{ml/l}$	pH	S CD								
		STD	0000	0743	3475	2718			0008931	0000	14804	706														
062		OBS	0000	0743	34752	2718					14804	706														
062		OBS	0005	0739	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	DRAFT INCH	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311165	EW		7227N	022320E		286	22	09	22	101	1967	131	0333	03	29	2			8	8	0134	
						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	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 _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C				
		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		0029	14837	597											
		STD	0050	0775	3489	2725	0008428		0047	14826	677											
	101	OBS	0050	0775	34891	2725				14826	677											
		STD	0075	0647	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	0003680		0100	14740	682											
	101	OBS	0150	0510	35092	2776				14740	682											
		STD	0200	0465	3509	2781	0003229		0117	14730	696											
	101	OBS	T0202	0463	35092	2781				14729	697											
		STD	0250	0413	3508	2786	0002605		0132	14716	700											
		STD	0300	0355	3506	2790	0002390		0145	14700	703											
	101	OBS	T0310	0343	35051	2791				14696	704											

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			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	
311165	EW		7159N	023110E	286	13	04	22	143	1967	132		0303	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 OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
			24	507	069	094	083	7	09												
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S C				
		STD	0000	0496	3457	2681	0012474	0000	14860	684											
143		OBS	0000	0496	34572	2681			14860	684											
143		OBS	0005	0497	34576	2681			14861	685											
		STD	0010	0495	3454	2682	0012352	0012	14861	683											
143		OBS	0010	0493	34585	2682			14861	683											
		STD	0020	0496	3463	2686	0012179	0025	14864	689											
143		OBS	0025	0497	34643	2686			14865	691											
		STD	0030	0487	3465	2687	0011788	0037	14863	684											
		STD	0050	0432	3473	2701	001695	0059	14846	666											
143		OBS	0050	0432	34696	2701			14846	666											
		STD	0075	0733	3493	2734	0007814	0082	14815	661											
143		OBS	0075	0733	34929	2734			14815	661											
		STD	0100	0698	3501	2745	0006598	0100	14806	657											
143		OBS	0100	0698	35006	2745			14806	657											
		STD	0125	0677	3504	2751	0006105	0116	14803	662											
		STD	0150	0651	3507	2756	0005579	0130	14797	667											
		STD	0200	0584	3519	2761	0004699	0156	14780	677											
143		OBS	0200	0584	35190	2761			14780	677											
		STD	0250	0509	3507	2774	0003957	0177	14756	686											
143		OBS	T0291	0432	35018	2779			14730	693											

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DIST. EPOCH	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	71202N	024058E		286	14	09	22	199	1967		133		0318	02	26	2			5	8	0136
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

		28	508	062	097	054	8	10	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	ND ₂ -N $\mu g \cdot dl/l$	ND ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S C C
		STO	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							
		STO	0010	0932	3413	2641	0016321	0017	14869	684							
		STO	0020	0925	3435	2659	0014603	0032	14871	681							
199		OBS	0020	0925	34350	2659			14871	681							
		STO	0030	0919	3444	2667	0013864	0046	14872	677							
199		OBS	0040	0913	34504	2673			14872	672							
		STO	0050	0836	3453	2687	0011986	0072	14845	664							
199		OBS	0059	0786	34583	2699			14828	659							
		STO	0075	0747	3474	2717	0009202	0099	14818	653							
199		OBS	0079	0739	34772	2720			14816	652							
		STO	0100	0720	3497	2739	0007164	0119	14814	658							
199		OBS	0114	0704	35061	2748			14812	661							
		STO	0125	0687	3508	2752	0005940	0135	14807	663							
199		OBS	T0148	0655	35114	2759			14799	666							
		STO	0150	0652	3512	2760	0005257	0149	14798	666							
		STO	0200	0595	3513	2768	0004488	0174	14783	668							
199		OBS	T0243	0558	35143	2774			14776	669							

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