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UNITED STATES COAST GUARD OCEANOGRAPHIC UNIT

REPORT No.44 CG 373-44

OCEANOGRAPHIC OBSERVATIONS IN KANE BASIN AND BAFFIN BAY

MAY AND AUGUST-OCTOBER 1969

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WASHINGTON, D.C. 🕉 OCTOBER 1971



USCGC WESTWIND (WAGB 281)

ABSTRACT

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

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PREFACE

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

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

by

ROBIN D. MUENCH¹

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

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

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

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

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

The sampling was conducted in approximately the deepest portion of the channel (fig. 1). Depth at the station position was determined by lead line to be 237 m. Three stations per day were taken at fixed hours; a fourth was taken at a random time to reduce the effects of periodic phenomena (e.g., tidal and inertial) on the samples. Water samples were acquired from seven depths except for two stations (32 and 42); samples at these two stations were taken at 10-m intervals to detect fine structure in the water column. Standard Nansen bottles were used in obtaining samples. Temperatures were read from reversing thermometers supplied by the University of Washington. Strong ambient temperature gradients inside the tent (which served as a laboratory) made it difficult to obtain agreement between the two thermometers on any one bottle. The temperature accuracy is estimated to be $\pm 0.03^{\circ}$ C. Salinity samples were decanted into polyethylene bottles and returned to the University of Washington for analysis. The salinities are accurate to ± 0.02 %.

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

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

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

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

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

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

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



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





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

OCEANOGRAPHIC CONDITIONS IN NORTHEASTERN BAFFIN BAY DURING AUGUST 1969

by

MARTIN J. MOYNIHAN¹

INTRODUCTION

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

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

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer listings from the National Oceanographic Data Center (Cruise Number 31–1529). Anomalies of dynamic height in the listings were computed by NOD('; but all discussion of dynamic heights in this text are based on computations made at the Coast Guard Oceanographic Unit. In addition, grab samples and cores of bottom sediments were obtained with an orange peel grab and Phleger corer at selected stations in the fjords scaward of glacier termini. The collection of these samples was supervised by U. S. Naval Oceanographic Office personnel. A preliminary anlaysis was conducted by Achstetter, et al. (1970), and the remaining material is presently held at the Geological Laboratory of the Naval Oceanographic Office.

DISCUSSION

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

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

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

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

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

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

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



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



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



FIGURE 4. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969.



FIGURE 5. Vertical distribution of salinity (°/ $_{\circ\circ}$), CGC SOUTHWIND stations 15 to 22, 24–25 August 1969. Contour interval $0.5^{\circ}/_{\circ\circ}$ above $33^{\circ}/_{\circ\circ}$ below $33^{\circ}/_{\circ\circ}$.



FIGURE 6. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 26 to 33, 26 August 1969.



FIGURE 7. Vertical distribution of salinity (°/ $_{\circ\circ}$), CGC SOUTHWIND stations 26 to 33, 26 August 1969.



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







STATION NUMBER

FIGURE 10. Vertical distribution of salinity (°/ $_{\circ\circ}$), CGC SOUTHWIND stations 22 to 26, 25–26 August 1969.



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



FIGURE 12. Horizontal distribution of temperature (°C) at the 100 meter level, CGC SOUTHWIND survey 14-28 August 1969.



FIGURE 13. Horizontal distribution of salinity ($^{\circ}/_{\circ\circ}$) at the sea surface, CGC SOUTHWIND survey 14-28 August 1969.



FIGURE 14. Horizontal distribution of salinity (°/ $_{\circ\circ}$) at the 100 meter surface, CGC SOUTHWIND survey 14–28 August 1969.

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

by

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INTRODUCTION

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

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

SAMPLING PROGRAM

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

Two Geodyne Model 850 recording current meters were moored in north central Smith Sound (78°30.6'N, 73°51.0'W) on 20 September. This array was designed to be retrieved by means of an acoustic release during summer 1970. Two recording current meters were moored later on the same date at each of the indicated locations south of Cape York (fig. 1) and were retrieved on 2 October.

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

DATA ANALYSIS

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

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

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

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

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

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

OCEANOGRAPHIC RESULTS

The oceanographic results are presented as:

a. Vertical sections showing temperature and salinity distributions (figs. 3-32), constructed directly from the STD vertical profiles;

- b. Temperature-salinity curves (fig. 33);
- c. Isentropic diagrams (fig. 34);
- d. Dynamic topographies (fig. 35); and

e. Station data listed in standard format (Appendix A).

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

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

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

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

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

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

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

A high concentration of icebergs along the coast northwest of Cape York during the observation period suggested the presence there of a northwestward coastal surface current. A southward extending "plume" of icebergs south of Cape York also suggested a southward surface current there coincident with the southern arm of the anticyclonic meander indicated by the 34 dyn cm isoline (fig. 35, upper). The westward tongue-like extension of Baffin Bay Atlantic Water south of Cape York (fig. 34, upper) suggested a westward current at that depth (400 m).

The westward and northward coastal currents off Cape York appeared to be related to the presence of an overlying near-surface wedge of relatively low salinity (generally <32.5%, but occasionally <30%) water (figs. 4, 6, 8, 10, 14, 19, 26, 30, and 32). This wedge has been suggested by Muench (1971) to be due to runoff from the western Greenland near-coastal ablation zone. The southward current west of the Carey Islands was part of the well documented net southward flow through Smith Sound, farther to the north. The 1969 data clarified the temperature and salinity distributions and circulation in northern Baffin Bay from the Carey Islands to Melville Bay. The features observed were similar to those observed in previous years. Failure of the moored current meters precluded comparisons between baroclonic and total currents.

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



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











FIGURE 5. Vertical distribution of temperature (°C), Section B.















FIGURE 9. Vertical distribution of temperature (°C), Section D.











FIGURE 12. Vertical distribution of salinity (°/ $_{\circ\circ}$), Section E.



FIGURE 13. Vertical distribution of temperature (°C), Section F.



FIGURE 14. Vertical distribution of salinity (°' $_{\circ\circ}$), Section F.



FIGURE 15. Vertical distribution of temperature (°C), Section G.



STATION NUMBER

FIGURE 16. Vertical distribution of salinity (°/ $_{\circ\circ})$, Section G.



FIGURE 17. Vertical distribution of temperature (°C), Section H.



FIGURE 18. Vertical distribution of salinity (°/ $_{\circ\circ}$), Section H.



FIGURE 19. Vertical distribution of temperature (°C), Section I.







FIGURE 21. Vertical distribution of temperature (°C), Section J.



STATION NUMBER

FIGURE 22. Vertical distribution of salinity (°/ $_{\circ \circ}$), Section J.







FIGURE 24. Vertical distribution of salinity (°/ $_{\circ\circ}$), Section K.







FIGURE 26. Vertical distribution of salinity (°/ $_{\circ\circ}),$ Section L.



FIGURE 27. Vertical distribution of temperature (°C), Section M.



FIGURE 28. Vertical distribution of salinity (°/ $_{\circ\circ}$), Section M.



FIGURE 29. Vertical distribution of temperature (°C), Section N.



FIGURE 30. Vertical distribution of salinity (°/ $_{\circ\circ}$), Section N.



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







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





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



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

APPENDIX A OCEANOGRAPHIC DATA

Cruises Listed

TableI—University of Washington, May 1969TableII—USCGC SOUTHWIND, August 1969TableIII—USCGC WESTWIND, September-October 1969

Codes Utilized

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

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

•	
Depth to bottom	Corrected or uncorrected sounding in meters.
Max. depth of samples	Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations:	
DIR	Rounded to nearest multiple of ten degrees.
HGT	In increments of $\frac{1}{2}$ m. Sum of 5 meters plus increments of $\frac{1}{2}$ m if 50 is added to direction.
PER	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or $2 \times$ (numeric entry) +1. For other entries see WMO Code 3155.
SEA	Sea state according to WMO Code 3700.
Weather code	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud code:	
Type	Cloud type according to WMO Code 0500.
Amount	Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water:	
Color code	Color according to Forel-Ule scale.
Trans	Transparency in whole meters as determined by Secchi disc.
Wind:	
Dir	Rounded to nearest multiple of ten degrees.
Speed or foree	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.
Barometer	Barometrie pressure given in tens, units and tenths of millibars.
Air temp., °C	Air temperature to tenths of a degree centigrade.
Vis. code	Visibility according to WMO Code 4300.
No. obs, depths	Number of observed levels associated with the station.
Messenger time	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, incicates the starting time of lowering the sensor.
Card type	OBS designates observed levels. STD indicates the values at this standard level were in- terpolated by a modified 3-point LaGrange formula.
Depth (m)	Depth to nearest meter. A postseript T indicates depth was obtained thermometrically;
	Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Post- scripts P and Q retain this meaning throughout the following entries.
T°C	Temperature to hundredths of a degree Centigrade.
S °/00	Salinity in parts-per-thousand.
SIGMA-T	Entered to hundredths.
Specific-volume	Multiply entry by 10^{-7} to obtain specific-volume anomly in cubic centimers per gram.

Anomaly—X 10 ⁷	
ΣΔD Dyn. M. X 10 ³	Multiply entry by 10 ⁻³ to obtain anomaly of dynamic height in dynamic meters referenced
	to the sea surface.
Sound velocity	Sound velocity according to Wilson's formula entered to tenths of a meter persecond.
O ₂ ml/l	Dissolved oxygen in milliliters per liter entered to hundredths.
PO_4 — $P \mu g-at/l_{$	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total–P µg–at/l	Total phosphorus in microgram-atoms per liter entered to hundredths.
$NO_2-N \mu g-at/l_{$	Nitrite-nitrogen in microgram-atoms pre liter entered to hundredths.
$NO_3-N \mu g-at/l_{}$	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si µg-at/l	Silicate-silicon in microgram-atoms per liter entered to whole units.
рН	Entered to hundredths.

REFERENCE	e			-	# 1973	SDEN	STATION TI	ME		ORI	GINATO	R*S	0	DEPTH	MAX,		WAVE	WEA	- CLOUD			NODC	
CTRY ID. CODE NO.	CODE	LATITUG	08 L	ONGITUDE	× 10'	1°	IGMTI MO DAY HI	R.1/10	YEAR	CRUISE NO.	STATI	ON BER	80	TO MOTTOM	OF S'MPL'S	OES Dir.	ERVATION	S THER COD	CODES	T	1	TATION UMBER	1
311506		7916	ONO	72480W	260	92	05 07 2	08	1969	KB2 C	01	~ 1	0:	237				-	0			0001	
						COLOR	TRANS DIR	SPEED	BARO- METER	ORY	W PL	ET CO	15.	NO. OBS. EPTHS	SPEC DBSERV	IAL TIDN S							
						0001	00	500	230			8		07									
	MESSENGE	CAST	CARO	DEPTH (m)		1 2	s •/	SIGA	MA-T	SPECIFIC VI		₹ ∆ DYN.	<u>р</u> .	sou	DND	0 2 ml/l	PD4-P	TOTAL	NO2-N	NO3-N	\$1 O ₄ -5	ъH	S
	HR 1/10				_					ANOFALI		X 10	³	VELO			1/10 - Q4	/۱۰ – ۵۷ ۱/۱	1 µg - ai/l	1/1ه - وير	yg - al/		c
	208		085	0025	-0	176	32751	26:	37		I		1	143	384		I	Į	ļ	I	I	1	I
			ST0 STD	0030 0050	-0 -0)178)180	3275 3275	26:	37 38	00165	39			143	383 386								
	208		OBS	0050	-0	180	32754	26	38					14	386								
	208		OBS	0075	-0)174)174	3290 32895	264	49 49	00154	47			143	395 395								
	20.0		ST0	0100	-0	160	3304	260	61	00143	24			144	408								
	208		STD	0125	-0	102	3331	268	61 81	00124	38			144	443								
	200		STO	0150	-0	062	3362	270	04	00101	97			144	470								
	208		STD	0200	-0	062	3442	270	68 	00042	32			145	501								
	208		OBS	0200	-0	037	34418	270	68 70					145	501								
	208		UBS	0230	-0	015	34263	21	78					143	218								
																							,
CTRY ID.	SHIP	LATITU			501	UARE	STATION TI.	ME	YEAR	ORI CRUISE	GINATO STATI	R'S ON	- 0	TO	OEPTH OF	OBS	WAVE ERVATION	S THEF	- CLOUC			NODC	
CODE NO.			1/10	• 1/10	10	1.	MO DAY H	R, 1/10		NQ.	NUM	BER	BC	MOTION	S"MPL'S	DIR	HGT PER	SEA COD	TYPE AN	T		UMBER	
1 311506	1 1	79160	ONIO	72480W	1260) <u>92</u> wa	05 08 0 TER 4	42 1N0	1969	KB2 C	002 TEMP.	¢Τ	10:	237 NO.	L			28	8	1		0002	
						COLOR	TRANS. DIR.	SPEED OR	M ETER (mbs)	BULE	W 80	ET CC	00E	OBS. EPTHS	OBSERV	ATION S							
							00	500	224	-170)	2		07									
	MESSENGR	CAST	CARD	DEPTH (m)		т °с	s ·/	SIGA	NA-T	SPECIFIC VI		₹ ∆ 01N.	0 M.	sou	DND	02 m1/l	PO4~P	TOTAL-	NO2-N	NO3-N	\$104-5	0.11	S
	HR_1/10											X 10	² 2	VELC			yg • 01/1	µg - o1/1	µg - a1/1	9g - a1/l	µg - o1/		Ċ
	042	1 1	OBS	0025	-0	175	32751	26	37		I			14:	384			1	I			1	I
	С . <u>с</u>		STD	0030	-0	176	3275	26:	37	00166	18			14	384								
	042		OBS	0050	-0	177	32730	26:	36 36	00107	29			142	387 387								
			STD	0075	-0	171	3289	264	48	00155	23			143	396								
	042		STD	0100	-0	156	32886 3286	264	48 46	00157	15			14:	407								
	042		OBS	0100	-0	156	32863	264	46	00000				144	407								
			STD	0120	-0	069	3417	274	49	00059	79			144	440								
	042		OBS	0150	-0	069	34171 3447	274	49 71	00038	901			144	474 504								
	042		OBS	0200	-0	032	34465	27	71	000000	,,,,			145	504								
	042		OBS	0230	-0	016	34523	27	75					149	517								
						_									_								
REFERENCE	SHIP	LATITU			102 SQL	SDEN JARE	STATION TE	ME	YEAR		SINATO	R'S ON	- 0	TO	MAX. DEPTH	OBS	WAVE ERVATION	S THER	- CLOUD			NODC	
CODE NO.		•	1/10	· '1/10	Z 10*	- 1.	IN YAQ OM	2,1/10		NO.	NUM	BER	BQ	MOITOM	S'MPL'S	DIR.	HGTNER	SEA CDD	TYPE AM	T	,	UMBER	
1 311506		79160	ONIO	72480₩	1260	92	05 08 1 TER W	29 . IND	1969	KB2 C	103 TEMP.	c	102	237					9	-		0003	1
						COLOR	TRANS. DIR.	SPEED	METER (mba)	ORY	W BU	ET CO	15. D 08 D 1	OBS. EPTHS	OBSERV	TIONS							
							00	500	230	-110		5	(70									
	MESSENGR TIME	CAST	C ARD TYPE	DEPTN (m)		ττ	s •/	SIGA	T-AM	SPECIFIC VI	DLUME -x107	₹ ∆ 01N.	о м.	SOU		0 2 m 1/1	PO4-P	TDTAL-1	NO2-N 29 - 01/1	NO3-N	SIO ₄ —Si µg = ot/	рН	s c c
	PTR (710						+					. 10						-					+
	129	. 1	OBS	0025	-0	160	32731	26	35				I	143	391		1	1	,	•	r		ľ
			STD	0030 0050	-0 -0	161	3273 3273	26	35 35	00167	80 92			143	391 394								
	129		OBS	0050	-0	162	32726	26	35					14	394								
	129		STO OBS	0075 0075	-0 -0	160	3283 32834	264	44 44	00159	48			144	401 401								
			STD	0100	-0	155	3303	266	50	00144	14			144	+10								
	129		STD	0100	-0	0155	33033	266	5U 17	00090	27			144	+10								

ST0

ST0

OBS

OBS

OBS

-0052

-0052

-0029

-0029

-0003

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

REFERENCE CTRY ID. CODE ND.	SHIP	LA 111 U C	DE 1/10		14/ 25DEN SDUARE	STATION THE	AE YEAR	ORIGINATO CRUISE STAT NO. NUM	IR'S ION IBER	DEPTH TD BDTYDM	MAX. DEPTH OF S'MPL'S	OBSI Day	WAVE ERVATIONS HGT PER SE	WEA- THER CODE	CLOUD CODES		N ST NL	ODC ATION JMBER	
311506		79160	рија	072480W	260 92 0 WAT	05 08 2 ER W	01 1969 IND BAR	KB2 004	t vs	0237 NO.	SPEC			1	3	1		0004	
					COLOR	TRANS. DR.	SPEED MET OR (mb: FORCE (mb:	ER DRY V I RULR BI		E DEPTHS	DESERVA	NIONS							
r						28	502 22	0 -040		07			[T			T
	MESSENGR TIME C	CAST NO.	C ARD TYPE	DEPTH (m)	3 1	s •/	SIGMA-T	SPECIFIC VOLUME ANDMALY-1107	≥∆D D1N, м х 10 ³	- SOU	DOND	02 mi/l	PO4-P Pg = 01/I	TOTAL−P µg•at/l	NO2−N µg - a1/i	NØ3-N 49 - 01/1	SID₄-Si µg-ot/l	ρН	500
		i l																	T
	201		085	0025	-0180 -0180	32743 3275	2637 2638	0016571		143	38∠ 382								
	201		STO	0050	-0181	3279	2640	0016275		143	386								
	201		ST	0050	-0175	3283	2644	0015921		143	393								
	201		085	0075	-0175	32833	2644	0014486		143	393 403								
	201		OBS	0100	-0169	33019	2659			144	+03								
			STO) 0125) 0150	-0116 -0074	3372 3421	2714 2752	0009253		144	442								
	201		OBS	0150	-0074	34205	2752	2022/75		144	473								
	201		085	0200	-0025 -0025	3450 34499	2774	0003675		14:	508 508								
	201		OBS	0230	-0018	34560	2778			14	517								
REFERENCE			1	¥	14, ASDEN	STATION TIA	AE .	ORIGINATO	R'S	DEPTH	MAX		WAVE	WEA-	CLOUD		N	odc	
CTRY ID. CODE NO.	CODE	LATTU	DE //10	LONGITUDE	10" 1"		YEAR	CRUISE STAT	IDN NBER	TD BOTYDM	OF S'MPL'S	Dar OB2	HGT PER SE	A CODE	TYPE AM	-	ST. NU	ATION	
311506		79160		072480W	260 92 0	05 49 0	25 1969	KB2 005		0237					1			0005	
					COLOR	TRANS DIR	SPEED MET	D- AIR TEMP. ER DRY V	T VIS	NO. DBS.	SPEC								
					CODE	(m)	FDRCE (mb			0.7									
ſ	MESSENGE				· · · · · ·	301	501 22		1 2 0 0			1	10		NO	NO. N	510T		Ţs
	TIME 0	NO.	TYPE	DEPTH (m)	3 1	s •/	SIGMA-T	ANOMALY-107	DYN. N X 10 ³	VELC	CITY	02 ml/l	vg - 01/1	μg • ot/l	µg - α1/1	µg - 01/I	µg - a1/l	pН	ç
						1			I										
	025		085 51(0025	-0181 -0181	32730	2636 2636	0016761		143	382								
			STL	0050	-0181	3272	2635	0016829		143	385								
	025		085	0050	-0181	32716	2635	0015626		143	395								
	025		OBS	0075	-0173	32872	2647	001/170		143	395								
	025		OBS	0100	-0169	3298 32982	2656	0014770		144	403								
			STO	0125	-0099	3377	2718	0008932		144	451 483								
	025		OBS	0150	-0052	34236	2754	00000000		144	483								
	025		5TI 085	0200	-0027 -0027	3421 34206	2750 2750	0005894		145	503 503								
	025		OBS	0230	-0011	34571	2779			14	520								
REFERENCE	SHIP	LATITU	DE		SOUARE	STATION TO IGMT	YEAR	DRIGINATO	DR*S	DEPTH TO	MAX. DEPTH	085	WAVE ERVATIONS	WEA- THER	CLOUD		N ST	ATION	
CODE NO.		•	1/10	• '1/10 ^{© ¥}	10" 1"	MD DAY H	L1/10	NO, NUA	ABER	BOTTOM	S'MPL'S	DUR,	HGT PER SI	EA CODE	TYPE AM	1	N	JMBER	
311506	}	7916	ONI	072480WI	1260 <u>92</u>	05 09 0 IER W	41 1969	KB2 006	τ	0237 NO.				28	1		(0006	
					COLOR	TRANS. DIR.	SPEED MET	ER DRY V 1) BULB B	VIS COD	OBS. DEPTHS	SPEC OBSERVA	ATIONS							
						30	501 22	4 -122	2	07									
	MESSENGR TIME	CAST	CARE	DEPTH (m.)	12	s •/	SIGMA-T	SPECIFIC VOLUME		SOL	IND	Domi/i	PO4-P	TOTAL-P	NO2-N	NO3-N	51 04-51		s
	HR 1/10	1						ANUMALI-IIO	x 10 ³	VELC			yų - 01/l	1/10 - נקע	//io - وبر	µg - ot∕l	yg - at/l	pre	č
1	042	1 !	OBS	0025	-0182	32700	l 2633	1	I	143	380]			I		I
			ST	0030	-0182	3271	2634	0016929		14	381								
	042	2	OBS	0050	-0182 -0182	32727	2636	0016742		14:	384 384								
	0.17		ST	0075	-0175	3289	2649	0015452		14	394								
	042		STI	0100	-0175	3298	2656	0014799		14	402								
	042	2	OBS	0100	-0170	32978	2656	0000000		144	402								
			ST	0125	-0054	3428	2718	0005221		144	450 483								
	042	2	OBS	0150	~0054	34279	2757	0003060		144	483								
	042		OBS	0200	-0027	34459	2770	0003969		14	506								
	042	2	OBS	0230	-0016	34540	2776			145	517								

REFERENCE				E E	AP RSDEN	STATION TIM	E	ORIG	INA TOR'S		OEPTH	MAX. DEPTH	V 0855		WEA-	CLOUD		N	ODC	
CTRY ID.	COOF		LOH	GITUDE		IGMU	1/10	CRUISE NO.	STATION		BOITOM	OF S"MPL"S	Dut. +	GT PER SE	CODE	TTPL AMT		N	IMBER	
311506		79160N	072	480W	260 92 0	5 09 12	28 196	9 KB2 0	07		2237				43	x 9	ł		007	
511500	,	191001			WATE	R WI	ND 8/	ARO- AIR	EMP. C	VIS	NO. 085.	SPE	CIAL							
					CODE	teans. OIR.	OR U	mbs) BUL8	BULB	COLL	DEPTHS	083584								
						00	500 2	37 -081		5	07									TT
	MESSENGR	CAST C	ARD	DEPTH (m)	ъъ	s •/	SIGMA-1	SPECIFIC VO	LUME 2	E ∆ 0	SOL		02 ml/l	PO4-P	TOTAL-P	NO2-N	NO ₃ ~N	SI O4-SI NG - 01/1	pН	C C
	HR 1/10	NO.	YPE				_			X 10-										-+-
!								I	ļ		I	1		1 1						1 '
	120	0	Ac	0025	-0182	32727	2636				14	380								
	120	0	STD	0030	-0182	3272	2635	00167	83		14	381								
	120	0	STD	0050	-0181 -0181	3271	2634	00168	15		14	385								
	120		STD	0075	-0173	3281	2642	00161	25		14	394								
	128	0	BS	0075	-0173	32807 3303	2642	00144	63		14	394 412								
	128	0	BS	0100	-0151	33028	2659		-		14	412								
			STD	0125	-0110	3358	2703	00103	45 85		14	443 469								
	128	0	STD BS	0150	-0076	33996	2735	00072	0,5		14	469								
	120	, c	STD	0200	-0027	3442	2767	00042	74		14	506								
	128	0	BS	0200	-0027	34419	2767				14	517								
	128		<u> </u>									1 44 4 4	1				-			ł
REFERENCE	SHIP	LATITUDE	LON		SOUARE	STATION THA	AE YEA		STATIO	N	OEP1H TO	DEPTH	OBS	WAVE ERVATIONS	WEA THER	CODES		s	TATION	ĺ –
CODE NO.	CODE	• 1/1	0	• •1/10 ° ž	10* 1*	MO QAY HR	.1/10	HO	NUMBE	R	BOTION	S'MPL	S OR	HGT PER SI	EA COO	TTPL AM			UMBER	
311506		79160N	07	2480W	260 92	05 09 2	00 190	69 KB2 C	08	-	0237	<u>. </u>	-L1			1	I	i	0008	l
					COLOR	TRANS DIR	SPEED A	ARO- AIR	WET		CN 085.	OBSER	CIAL VATIONS							
					COOF	imi Uik,	FORCE	(mbs) BUL	BULE		DEPTHS									
	,		_		- I	00	500 <u> </u>	230 060	<u> </u>	8	107	1	l	1						5
	MESSENGI	CAST C	C ARO TYPE	DEPTH (m)	3 1	s •4.	SIGMA-	T SPECIFIC V	-110	≥ ∆ C DYN, A y 103	SO VEL	OCITY	02 m1/1	PO 4-P	101AL-1 yg+a1/1	NO2-N #9 - 01/l	NO3-N 10-01/1	SI 04-SI µg - ol/	pН	ć
	HR 1/10																			H
	1 20/		Re	00.25	-0176	32733	2636	1	i		14	383		ł		'	1			
	200	, ,	STD	0030	-0176	3273	2636	0016	18		14	384								
			STD	0050	-0176	3274	2636	00166	85		14	387								
	20	0 0	STO	0050	-0176	32736	2643	00160)48		14	394								
	20	o o	BS	0075	-0173	32817	2643				14	394								
	20		STD	0100	-0160	3298	2655	0014	515		14	407								
	20	0 0	STD	0125	-0119	3362	2706	0010	8 0 0		14	439								
		_	STD	0150	-0083	3409	2743	0006	508		14	467								
	20	0 C	985 STD	0150	-0083	34094	2745	0003	506		14	508								
	20	o c	BS	0200	-0024	34522	2 7 75				14	508								
	20	o c	BS	0235	-0014	34566	2778				14	+519								
DEFEDENCE	1-					TATION I	1445	0	GINATOR	Ś	DEPT	, MA	X.	WAVE	WF	L CLOU			NOOC	٦
CTRY ID.	SHIP	LATITUDE	10		SQUARE	IGMI	YE		STATIC)N	10	M DEPI	H 08	SERVA TION	S THE	R COO	5		STATION	
CODE NO.		· υ	/10	1/10	10. 1.	YAD OM	R_1/10	NO.	NUMB	ER		SMP	L'S DOL	HGT PER	SEA	1YPL A	MT		0000	_
1311506	6	79160	N 107	2480WI	1260 92	105 09 12	221 19 WIND	69 KB2	009 2 TEMP. 7	- 1-	1023 ND.	71			I	1 14	+ 1	1	0009	"
					COLO	TRANS DIR.	SPEED OR	METER DE	Y WE	T CO	OE OBS.	0856	RVATIONS							
						0.0	FORCE	261 -06	7	8	07	+								
	MESSEN		C 1 85	1		100	1300 1	201		۶A		1 0UNO	T.	PO4-P	IOTAL	P NO	4 NO1-1	5104-	54	2
	TIME	NO.	TYPE	OEPTH (m)	3 1	s */	SIGMA	-T ANOMA	T-107	OYN. X 10	M. VI	LOCITY	O ₂ ml/	yg - at/	μg - ol.	/1 µg = ot/	to - gų f	1 µg - al	/L PH	c
	22	1	OBS	0025	-0182	32723	2635		700		1	4380								
			STD	0030	-0182 -0180	3272	2635	5 0016 5 0016	800		1	4385								
	22	1 0	OBS	0050	-0180	32720	2635	>			1	4385								
			STD	0075	-0172	3277	2639	<i>i</i> 0016	411		1	4394								
	22	T (STD	0100	-0172	3301	2658	3 0014	554		1	4409								
	2 2	1	OBS	0100	-0157	33014	2658	3			1	4409								
			STD	0125	-0118	3364 3400	2708	5 0009 3 0006	059 520		1	4440 4467								
	22	1	OBS	0150	-0082	34093	2743	3			1	4467								
			STD	0200	-0022	3449	2773	3 0003	759		1	4509								
	22	1	OBS OBS	0200	-0022	34580	2779	9			1	4520								

REFERENCE	SHIP	LATITU	DE		10°	ARE	STATIO IGA	N TEMI ATE	YE	AR	CRUISI NO.	ORIGINA 51 N	ATIO	S N ER	DEPTH TO BOTTOA	MAX DEPTI OF S'MPL		W DBSER R. [H C	AVE VATION	45 SEA	WEA- THER CODE	CLO COT	U D DES A MT			NODC STATION NUMBER	
311506		7916	ON	072480W	260	92 WAT	05 10 TRANS. C	04 WIN	4 19	BARC METE	KB2	OIC AIR TEN) IP. *C WET	VIS.	0237	SP OBSER	ECIAL	45			28	x	9			0010	
						CODE	sm1 0	0 5	ORCE	(mbs	, - 1	70	BUL	2	07			-		_							-
	MESSENGE	CAST NO.	C ARI TYPE	D DEPTH (m)	7	٣	5 •/		SIG M A	-1	SPECIFI	C VOLUA	A E .7	₹ △ 0 DYN. M X 10 ³	. SO	UND OCITY	O 2 m	n)/	PO 4 - 1 29 - 01	1	OTAL-P µg-ai/l	NO2- 98-0	-N 1/1	NO3-N µg - o1/l	51 O 4 - 49 - 01	S1 рН	.00
	044	4	OBS ST	0025 D 0030	-0 -0	179 179	3273 3274	7	2636 2636	5	001	6696			14	382 383										I	1
	044	4	ST OBS ST	D 0050 0050 D 0075	-0 -0 -0	179 179 169	3273 3273 3286	0	2636 2636 2646	5	001	572	7		14	386											
	044	4	OBS ST	0075 D 0100	-0 -0	169 161	3286	0	2646	5 ¥	001	4959	9		14	406											
	044	4	ST	D 0125	-0	094	3371		2713	3	000)9409)5649	7 7		14 14	452											
	044	4	OBS ST	0150 D 0200	-0	047	3422	7	2753	3 9	000	3170)		14	485											
	044	4 4	085 085	0200	-0	008	3461	1	2782	2					14	523											

REFERENCE CTRY ID.	SHIP	LATITU	DE	LONGITUDE	DRIFT	sou	DEN ARE	STA	IG M	TIME D	YEAR	CRUIS		ATOR'S	N N	DEPTH TO BOTTOA	DEPTH OF	085	WA SERVA	VE	WEA THER COD	CLOUD			NODC STATION NUMBER	
CODE NO.		•	1/10	'1/10		10*	1.	MO	DAY	HR,1/10		NO.	· · · · ·	10 10 86	R		SMPL	5 018.	HGT	PER S	EA	117PL A.M	r 			
2116.04		7016		072480₩		260	92	05	10	126	1969	кв:	01	1		0237								ł	0011	
. 311308		1910	0.14	0124000		1	WA	ER	1	WIND	BAR	. L	AIR TEA	ир. °С		NO.	5.00	CIAL								
							COLOR	TRA N (m)	L DI	SPEE OR FOR	D AMETI	R I	ORY BULB	BULE	con	DEPTHS	OBSER	A TION S								
									00	500	28	8 - (90		7	07								,		
	MESSENG	CAST NO.	C N TY	RD DEPTH	(m.)	т	٣		•/	SIG	GMA-T	SPECIF	IC VOLU MALY-XI	ме 07	₹ Δ D 0YN. N χ 10 ³	A. SO	UND DCITY	O2 m1/1	P V S	0 4 - P 9 + 01/1	TOTAL⊶I µg = αi/i	NO2-N 99 - 01/1	NO3-N µg - a1/l	51 O 4 - 5 µg - al/	ii pH	500
	<u> </u>	<u></u>						-		-									1							T
	1	4	08	s 002	5	-0	186	32	713	2 20	534	•				14	378		,							
		-	5	TD 003	0	-0	184	32	64	26	529	00	1742	5		14	379									
			S	TD 005	0	-0	178	32	54	26	520	00	1818	0		14	384									
	12	4	0B	s 005	0	-0	178	32	54	1 20	520					14	384									
			S	TD 007	5	-0	172	32	80	20	542	00	615	0		14	394									
	12	4	OB.	s 007	5	-0	172	32	804	+ 26	542					14	394									
			S	TD 010	0	-0	160	32	94	20	553	00	1509	2		14	406									
	12	4	08	s 010	0	-0	160	32	94	3 20	553			_		14	406									
			S	10 012	5	-0	091	33	69	2	711	00	0957	3		14	453									
			S	TD 015	0	-0	043	34	21	2	751	00	0576	7		14	487									
	12	4	08	S 015	0	-0	043	34	21	4 2	751					14	487									
			5	TD 020	0	- 0	009	34	62	2	782	00	0286	I		14	617									
	12	4	ÓB	s 020	0	-0	009	34	61	7 2	782					14	617									
	12	4	ОB	S 023	5	-0	007	34	61	5 2	782					14	1523									

311506 79160N 072480W 260 92 05 10 166 1969 KB2 012 0237	2 0012
COLOR TRANS. CODE (m) OR. OR (mbs) SULE BULE CODE CODE CODE CODE CODE CODE CODE COD	
00 504 288 -100 8 07	
MESSINGE CAST CARD DEPTH (m) E C S ' SIGMA-T SPECIFIC VOLUME OT NO. THE O'	NO ₃ -N SIO4-Si pH c
166 OBS 0025 -0173 32714 2634 14384	
STD 0030 -0176 3272 2634 0016864 14384	
STD 0050 -0179 3272 2635 0016802 14386	
166 0B5 0050 +0179 32720 2635 14386	
STD 0075 -0168 3281 2642 0016129 14396	
166 OBS 0075 -0168 328 08 2642 14396	
STO 0100 -0164 3294 2652 0015105 14404	
166 OBS 0100 -0164 32940 2652 14404	
STD 0125 -0095 3365 2708 0009864 14451	
STD 0150 -0046 3417 2748 0006081 14485	
166 OBS 0150 -0046 34171 2748 14485	
STD 0200 -0007 3462 2783 0002819 14518	
166 OBS 0200 -0007 34624 2783 14518	
166 OBS 0235 -0007 34620 2782 14523	

REFER	ID. NO.	SHIP COOE	LATITU	DE 1/10	LONGITUDE	DRIFT	, 20 2004	DEN RE	TATIO (G	N TIM MT)	710 710	EAR	ORK CRUISE NO.	OTANIC STATE NUM	R*5 ION BER	DEPTH TO BOTTO	H DEPT DEPT M S'MPL	C. H OBSI .*S DIR.	WAV ERVA	E FIONS ER (SE)	WEA- THER CODE	CLOUD CODES	1	S N	NODC TATION IUMBEP	
311	506		7916	ON	072480	M	260	92 (WAT COLOR CODE	0.5 1 (ER TRANS.	0 19 WIN	9 1 9	BARO METE (robs) <u>1</u> 3 TEMP. 8 80	C VIS. ET COD	023 NO. 085. DEPTH	7 S OBSER	ECIAL VATIONS		I	42	5			0013	
									()6 S	05	288	3 -096	,	7	07										
		MESSENG TIME HR 1/1	CAST	C A P TYP	D DEPTI	+l (m)	T	°C	s •		SIGMA	-1	SPECIFIC VI	DLUME 	≨∆0 DYN A X 10 ³	. SC	DUND	0 2 m1/i	PO 29	4-P	۹	NO ₂ -N µg - 01/l	NO3+N 99 - 01/1	SIO4—Si µg - ө1/I	₽Н	S C C
		19	9	085 51	00 0 00	25 30	-01 -01	81 80	3272 3273	28	2636 2636	5	00167	55		14	+381 +382	ļ	1	1						
		19	9	51 089 51	D 00	50 50 75	-01 -01 -01	78 78 68	327: 327: 328(3 30)	2636 2636 2641	5 5 1	00167	27		14 14 14	4386 4386 4396									
		19	9	0B9 51	00 0 01	75 00	-01 -01	68 62	3279	98 +	2641 2652	L 2	00151	33		14	+396									
		19	9	085 51	01	00 25 50	-01 -00 -00	.62 194 146	3293 336 3419	37 7 2	2652 2709 2749	2 2 2	00097	14		14	+405 +452 +485									
		19	9	089 51	01	5 0 50	-00 -00	46	3418 346	39 I	2749	2	00028	97		14	485 4517									
		19 19	9 9	089 089	02 02	35 35	-00 -00	8 0 8 0 6	346. 346.	25	2782	3				14	+517									

REFE	ENCE	SHIP		. I		- E 5		SDEN '	STA	TION	TIME			ORIGIN	ATOR	"S	_	OEPTH	OEPTH		WA	VE		WEA-	CLOU	P.			NODC	
CODE	10. NO.	CODE	•	1/10	1/	10 2 2	10.	11	MÖI	DAY	HR.1/10		CRUIS NO.	E	STATIC NUM8	D N BER	į e	BOTTOM	OF S"MPL	S DR	HGT	PER	SEA	CODE	TYPE	• 1		N.	UMBER	
31	1506		7916	ON	072480	w	260	92 WA	05 TER		042 WINO	1969	_ кв2		4 MP. 7	c L	_lc	237 NO.						42					0014	
								COLOR	TRANS (m)	OIR	SPEE OR FOR	D MET	ER 6)	DRY BULB	W E 8 U I	t co LB	1001	OBS. DEPTHS	OBSERV	ATIONS										
							_					28	8			4		07												-
		MESSENG TIME HR 1/1	CAST NO.	C AR TYP	D DEPT	H (m)	т	'n	s	•4.	sic	ima-t	SPECIF	IC VOLU	JME 107	₹∆ DYN. ¥10	о м.	SOU VELC	UND DCITY	O₂mi/	ן זען א	04-P 1 - 01/	ן ע ו	DTAL-P 19 - 01/l	NO2-N 99 - 01/	NO3 1 199 - 1	-N \$	4 D4-51 49 - 01/1	рН	S C C
			1																											
		04	2	085	5 00	25	-0	178	32	721	26	35						14	382											
				51	D 00	30	-0	179	32	72	26	35	001	678	8			14	383											
				- 51	0 00	50	-0	180	32	74	26	36	001	666	9			14	386											
		04	2	085	5 00	50	-0	180	32	737	26	36						14:	386											
				S1	00 01	75	+0	171	32	85	26	45	001	580	7			14:	396											
		04	2	083	5 00	75	-0	171	32	849	26	45			-			14	396											
				SI	D 01	00	-0	152	33	04	26	60	001	436	0			14	411											
		04	2	OBS	5 01	00	-0	152	33	041	26	60						14	411											
				51	0 01	25	-0	100	33	78	27	19	000	885	1			14	450											
				S1	D 01	50	-0	060	34	28	2	158	000)517	ć			14	480											
		04	2	089	; 01	50	-0	060	34	282	27	758						144	480											
				51	0 02	00	-0	015	34	56	27	78	000)323	3			14	513											
		04	2	085	5 02	00	-0	015	34	564	21	78						14	513											
		04	2	085	5 02	35	-0	800	34	619	27	82						14	523											

REFES CTAY CODE	ID. NO.	SHIP COOE	LATITU	DE 1/10	LONGITUDE	DRIFT	4 :51 SOUA 10*	DEN ARE	.TA	GM1	TIME 1) HR.1/10	YEAR		RUISE NO.	DRIGINA SI N		2"5 DN BER	0 80	IO TO DTTOM	MAX. DEPTH OF S'MPL"	s	OBSE	NAV RVA IGT	TIONS		WEA- THER CODE	CLC CD	DES			NOOC STATION NUMBE	
31	1506		7916	ON	072480W		260	92 WA	05 IER	μ	121 WIND	196	9 	КВ2	015	P. 1	c Jur	0:	237 NO.							43		8			001	5
							-	COLOR	TRAN (m)	S OIR	SPEE OR FOR	D MI	ETER nbs)	- B	ULU	W E	ET COD		OBS. EPTHS	OBSERV	ATI	ION S										
		r								33	504	+ 2	68	-1	10		5		07													
		MESSENG TIME HR 1/10	* CAST 및 ND.	C A R TYP	D DEPTH	m l	т	Ċ	9	•/	sic	SMA-T	s	ANOM	VOLUA ALY-IIO	л.Е ?	≨ Δ D DYN, N X 10 ³	À.	SOU VELO	ND CITY	0;	⊋ mi/I	۲0 ۱۹۷	4-P 01/1	ro Pg	TA L - P 2 · ot/1	NO ₂	-N 1/1	NO3-N 20 - 01/1	St O4-4 Hg - ot	i pH	S C C
			1																					_				1			1	
		12	1	085	5 0029	5	-01	79	32	721	26	535				. '		ţ	143	82				'		1			1		1	1
			-	51	D 0030)	-01	80	32	72	26	535	1	001	6810				143	82												
				S1	D 0050)	-01	81	32	72	26	535	1	001	6775				143	85												
		12	1	085	6 0050)	-01	81	32	723	26	535							143	85												
				51	D 007	5	-01	73	32	80	26	641	- (001	6171				143	94												
		12	1	085	5 007	5	-01	.73	32	801	26	641							143	94												
				51	D 0100)	-01	.67	32	95	26	53	(001	5021				144	03												
		12	1	085	0100)	-01	67	32	950	26	53							144	03												
				51	D 012	2	-01	00	33	63	2	106		000	9998				144	48												
				51	D 0150)	-00)52	34	13	27	745	(000	5381				144	82												
		12	1	085	0150)	-00	52	34	128	27	45							144	82												
				ST	D 0200)	-00	11	34	60	27	61	(2000	3011				145	15												
		12	1	065	6 0200)	-00	11	34	596	27	81							145	15												
		12	1	OBS	0235	ò	-00	07	34	628	27	83							145	23												

REFER	NCE			1	-=	W/2	SOEN	STA	TION T	IME		Т	ORIGI	NATO	R*5		OEPTH	MAZ		WAVE		WEA	- CL	000			NOOC	
CTRY	10.	COOE	LATTU	90	LONGITUDE	squ	ARE		(GMT)	_	YEAR	CRUI	ISE	STAT			TO BOTTOM	OF		LUCT I	N SC	COD		IL IL			UMBER	
CODE	NQ.			1/10	1/10 -	10"	+ <u>1</u> .	MO	DAY	IR 1/10		1	~ 		BLR	-		D MIL :		HGI /		<u> </u>	1.1.4	<u>``</u>		-+-		ĺ.
311	506		7916	on I	072480W	260	92	05	11	200	1969	KB	2 01	6			0237		1			48	1	15		1	0016	i i
							WA	TER	1.	WIND	BAR	ᆎᄂ	AR T	MP.	τ	vis	NO.	SPE										
							COLOR COOE	TRANS Im)	OR.	SPEES OR FORC	A ET	ER	ORY RULE	80	ILA C	008	DEPTHS	OBSERV	ATIONS									
									33	504	25	7 -	116				07			_			_					
	ĺ	MESSENG TUME HR 1/10	CAST NO.	CAR	DEPTH (m)	r	τ	5	•/	sig	MA~T	SPEC	INC VOL OMALY-1	U M E (19 ⁷	₹ / DYN X	10 ³	SOL VELC	ONU TIDC	02 ml/l	PO . #9 -	ar∕l	TOTAL-7 µg - q1/1	NO3	-N 01/1	NO3-N 1/1a - рч	SIO₄–S µg - et/	рН	500
			1			1																						
		20	. '	OB:	5 0025	-0	178	32	711	26	34						14	382										
			•	S	0030	-0	180	32	71	2€	34	00	1687	19			14:	382										
				S	D 0050	-0	182	32	72	26	35	00	1683	35			14	384										
		20	0	083	\$ 0050	-0	182	32	715	2€	35						14	384										
				S	FD 0075	-0	171	32	84	2€	45	00	1585	53			14	395										
		20	0	OB :	5 0075	-0	171	32	843	26	45			_			14	395										
				S.	TD 0100	-0	160	33	03	2€	59	00	01444	•7			14	407										
		20	0	083	5 0100	-0	160	33	027	26	59						14	407										
				S	TD 0125	-0	108	33	60	2	104	00	01019	99			14	444										
				S	TD 0150	-0	066	34	05	27	39	00	0692	3			14	4 / 4										
		20	0	08:	5 0150	-0	066	34	049	27	39						14	474										
				S1	rD 0200	-0	010	34	61	27	81	00	0294	+7			14	516										
		20	0	0B3	5 0200	-0	010	34	605	27	81						14	516										
		20	0	OB:	5 0235	-0	007	34	622	27	83						14	523										

						1					1						• 1		1	1	1	- T	1	
REFERENCE	SNIP		06 10		5QL	JARE	STAT	ION TI GMTI	ME	YFAR		ORIGINA	TORS		DEPTH	DEPT	N OBS	WAVE SERVATIONS	WEA	CODE			TATION	
COOL NO.	10. COOE 1/10 1/				10'	1.11	HO 11	AY IN	B 1/)0	1000	CRUISE NO.	51 N	IMBER		ROTTO	4 5 MP	5 08	THGT PERL S	COOI	TYPLAN	7	i	UMBER	
+	701601 07245				10	1		<u></u>			1			- t							1		0017	
311506	1	7916	ON 07	2480w	260	92	05]]	1	222	1969	IKB2	017			023	<u>'</u>	_L		1 13	1 18	1	1	0017	
						A	TER	<u> </u>		BAR	D	AIR TEM	r. C	V15.	NO.	l si	ECIAL							
						COLOR	TRANS	OR.	Ot	MET (mb)			WET	CODE	DEPTH	OBSE	RVATION S							
								<u> </u>	FOIC		-+			+		-								
							<u> </u>	33	507	25	1 +1	10		4	07									-
	MESSENGE	LCAST	CARO		1.						SPECIFIC		εĮΣ	ΔD	s	OUND		PO4-P	TOTAL-	NO7-N	NO1-N	SI OA-S		1
	TIME	NO.	TYPE	OEPTH (m)	1	ιc	1,	·/	SIG	MA-T	ANDA	ALT-IT		TN. M X 10 ³	• VE	LOCITY	U2 mi/i	40 - 01/1	¥9 - a1/1	vg - at/l	ug - at/i	µg - at/	рн	k
	NR 1/10				+		+		+				-		+				-				-	t
		1		1			1				I						1	1	1	I	1	l.	1	ł,
	222	2	OBS	0025	-0	178	32	116	26	35					14	382								
			STD	0030	-0	180	327	12	26	35	001	6825			14	382								
			STD	0050	-0	182	327	73	26	36	001	6719			14	385								
	222	2	OBS	0050	-0	182	32	730	26	36					14	385								
			STD	0075	-0	172	328	30	26	42	001	6150			14	394								
	222	2	OBS	0075	-0	172	328	304	26	42					14	394								
			STD	0100	-0	159	330)5	26	61	001	4296			14	408								
	222	2	obs	0100	-0	159	330)47	26	61					14	408								
			STD	0125	-0	107	335	8	27	03	001	0356			14	444								
			STD	0150	-0	064	34(3	27	37	000	7106			14	475								
	222	2	OBS	0150	-0	064	340	26	27	37					14	+475								
			STD	0200	-0	009	346	52	27	82	000	2846			14	+517								
	222	2	085	0200	-0	009	346	519	27	82					14	\$517								
	222	2	085	0235	-0	007	346	533	27	83					14	524								
REFERENCE	SNIP				W/2	SOEN	STAT		ME			ORIGINA	TOR'S		DEPTH	MA	L.	WAVE	WEA	CLOUD	1		NODC	
REFERENCE	SNIP CODE	LATITU	0ŧ : 10	NGITUOE	97 a SQL	SOEN	STAT	ION TI GMTI	ME	YEAR	CRUISE	ORIGINA ST.	TOR'S	_	DEPTH	M A DEPT	K. N OBS		WEA	CLOUD		5	NODC	
REFERENCE CTINY ID. CODE NO.	SNIP CODE	LA1111U	0ŧ L0		47 2 SQL 10*	SOEN JARE	STAT		ME R.1/10	YEAB	CRUISE NO.	ORIGINA ST. NL	TOR'S ATION FAMBER		DEPTH TO BOTTO	MA DEPT OF S'MP	K OBS	WAVE ERVATIONS HGT PER S	WEA THER CDDE	CLOUD CODES	7	5	NODC TATION UMBER	
REFERENCE CTIM ID. CODE NO. 311506	SNIP COOE	ι.Απυ 	0E LOI 1/10 0N 07	NGITUOE	10°	SOEN JARE	TATE MO E		ME R.1/10	YEA0	CRUISE NO.	ORIGINA ST. NL	TOR'S A TION FAMBER		DEPTH TO BOTTO	MA DEPT OF S*MP	K OBS	WAVE SERVATIONS HGT PER S	WEA THER CDDE	CLOUD CODES TYPE AM	Ŧ	S	NODC TATION UMBER	
REFERENCE CTW ID. CODE NO. 311506	SNIP CODE	۲916	0E LOI 1/10 0N 07	NGITUOE 1/10 2480W	10°	11 11 12 12 12 12 12 12 12 12 12 12 12 1	STAT MO C O 5 J TER	ION TI GMTI DAY N .2 C	ME R.1/10 141	YEAD	CRUISE NO.	ORIGINA ST. NL 018	TOR'S ATION TAMBER		DEPTH TO BOTTO	MA DEPT OF S*MP	N OBS	WAVE ERVATIONS HGT FER S	WEATHER CDDE		7	S	NODC TATION UMBER 0018	
REFERENCE CTW ID. CODE NO. 311506	SNIP CODE	ι Απτυ •	0E LOI 1/10 ON 07	NGITUOE 1/10 2480₩	3QU 10* 260	SOEN JARE 1 92 WA COLOR	STAT		ME R_1/10 141 SPEEC	1969 BARG	CRUISE NO. KB2	ORIGINA ST. NL 018 AIR TEMI ORY	TOR'S ATION IMBER	VIS	DEPTH TO BOTTO 0237 NO. OBS.	MA DEPT OF S*MP		WAVE ERVATIONS HGT PER S	WEA THER CDDE		7	5	NODC TATION DUMBER	
REFERENCE CTW ID. COOR NO. 311506	SNIP CODE	λπυ. 7916	0t to 1/10 0N 07	NGITUOE 1/10 2480W	5QU 10 ⁺ 260	SOEN JARE 1' 92 WA COLOR CODE	STAT	DAY N 2 C DIR,	ME R_1/10 141 IND SPEEC OR FORC	YEAB 1969 8ARC METE E (mbs		ORIGINA ST. NL O18 AIR TEMI ORY ULB	TOR'S ATION IMBER P. °C WET RULB	CODE	DEPTH TO BOTTO 0237 NO, ORS, DEPTH	MA DEPT OF S*MPI	ECIAL	WAVE ERVATIONS HGT PER 5	WEA THER CDDE 44		,	2	NODC TATION UMBER	
REFERENCE CTM ID. COOR NO. 311506	SNIP	دمسر 7916	0E LOI 1/10 DN 07	NGITUOE 1/10 2480W	10 ⁺ 260	SOEN JARE 1' 92 WA COLOR CODE	STAT	DAY N DAY N 2 C DIR	ME 1/10 41 IND SPEEC OR FORC S02	1969 8AR 8AR 6 (mbs 23)	CRUISE NO. KB2 CRUISE NO. KB2 CR R CR R CR R R	ORIGINA ST. NL O18 AIR TEMI ORY ULB 66	TOR'S ATION IMBER 2. °C WET RULB	VIS. CODE	DEPTH TO BOTTO 0237 NO. OES. DEPTH	MA DEPT OF S*MPI	ECIAL	WAVE SERVATIONS HGT PER S	WEA THER CDDE 44		<u>y</u>	5	NODC TATION UMBER 0018	
REFERENCE COME NO. 311506	SNIP CODE	7916	0E LOI 1/10 DN 07	NGITUO£ 17/10 2480₩	10 ⁺ 260	SOEN JARE 1' 92 WA COLOR CODE	STAT	DAY N 2 C DIR. 0 3	ME R.1/10 141 IND SPEEC OIL FORC SO2	YEA8 1969 8A8(METE E (mbs	CRUISE NO. KB2 CRUISE	ORIGINA ST. NL 018 ALR TEMI DRY ULB 66	TOR'S ATION IMBER IMBER RULB		DEPTH TO BOTTO/ 0237 NO. 085. DEPTH 07	MA DEPT OF S'MP	ECIAL		WEA. THER CDDE 44		-	5	NODC TATION JUMBER 0018	F
REFERENCE CTIT ID. COOR NO. 311506	SNIP CODE MESSENGE	7916	OE LOI 1/10 ON 07	NGITUOE	10 ⁴ 260	SOEN JARE 1' 92 WA COLOR CODE	STAT	DAY N 2 C DIR. 03	ME R.1/10 4 1 SPEEC OR FORC SO 2 SIG	YEA8 1969 RARC METE E (mbs 233 MA-T	CRUISE NO. KB2 D- R CR SPECIFIC ANGM	ORIGINA ST. NL O18 AIR TEMI ORY ULB 66		VIS. CODE 5 5 0	DEPTH TO BOTTO/ 0237 NO. 085. DEPTH 07		ECIAL VATIONS	PO4-P	VEA. THER CDDE 44	CLOUD CODES TYPE AM 8	N03-N	5 8 8 8 9 8	NODC TATION UMBER 0018	50
REFERENCE CTTT ID. COOR NO. 311506	SNIP CODE MESSENCE TIME HE 1/10	7916	OE LOI 1/10 ON O7 CARO TYPE	NGITUOE 1/10 2480W	10 ¹ 260	SOEN JARE 1' 92 WA COLOR CODE	STAT	03	ME R_1/10 4 1 IND SPEEC OI SO2 SIG	YEA8 1969 8ARC 6 (mbs 23) MA-T	CRUISE NO. KB2 CRUISE R C R R C S R C C R C R C C R C R C R C	ORIGINA ST. NL O18 AIR TEMI ORY ULB 66	TOR'S ATION IMBER WET RULB	VIS. CODE 5 20 N. M.	DEPTH TO BOTTO/ 0237 NO. ORS. DEPTH 07 SC VEI		ECIAL VA TONS	WAVE ERVATIONS HGT FER 5 PO4-P μ0- ατ/1	WEA ТНЕВ СОДЕ 44	СLOUD СОDES ТУРЕ АМ 8 NO ₂ -N уд - et/l	NO3-N μ0-αt/1	ς δ SI O ₄ -Si yg - αt/1	NODC TATION JUMBER 0018	205
REFERENCE CTT ID. CODE NO. 311506	SNIP CODE MESSENGR TIME HIE 1/10	CAST NO.	OE LOI 1/10 ON 07 CARO TYPE	NG(TUDE 100 ₹ 17/10 2480₩ 0EPTH (m)	10 ¹ 260	SOEN JARE 1' 92 WA COLOR CODE	5TAT (MO E 05] TER TEANS (m) S	0 N TI GMTI 2 C V DIR, 0 3	ME R.1/10 41 IND FORC SO2 SIG	YEA8 1969 & RARC & METE E (mbs 23) MA-T	CRUISE NO. KB2 CRUISE NO. R R CRUISE R CRUISE R CRUISE NO.	ORIGINA ST. NL O18 AIR TEMI ORY ULB 66		VIS. CODE 5 5 10 ³	DEPTH TO BOTTO/ 0237 NO. 085. DEPTH 07 VEI		ECIAL VA TIONS	WAVE ERVATIONS HGT PTR 5 	WEA. ТНЕ ТНЕ СООБ 44 ТОТА L—Р уд · огл	CLOUD CODES TYPE AM 8 NO ₂ -N yg - et/l	NO ₃ -Ν μg - αt/1	SI O ₄ -Si µg - ot/1	NODC TATION IJMBER 0018	500
REFERENCE CITY ID. COOR NO. 311506	SNIP CODE MESSENGE TIME HE 1/10	7916	OR LOI 1/10 ON 07	NGITUOE - 1/10 2480W	10 ⁴ 260	SOEN JARE 1' 92 WA COLOR CODE	5TAT (MO [] 05]] TER TEANS m) 5 327	ION TH GAT 2 C 4 03 •4.	ME R_1/10 41 (IND SPEEC OR FORC SO2 SIG	YEA8 1969 MATT E (mbi 23 MA-T 34	CRUISE NO. KB2 CRUISE NO. R R CRUISE R CRUISE R CRUISE NO.	ORIGINA ST. NL O18 AIR TEMI ORY ULB 66	TOR'S ATION IMBER WET RULB	VIS. CODE 5 5 10 ³	DEPTH TO BOTTO/ 0237 NO. 085. DEPTH 07 VEI	MA DEPT OF S'MPI SOBSEF	ECIAL VA TIONS 02 ml/1	WAVE ERVATIONS HGT PER S PO4-P μ0-41/1	WEA. ТНЕR СООР 44 10TA L-F уд • 01Л	CLOUD CODES TYPE AM 8 NO ₂ -N yg - et/l	NO ₃ -N µg - at/1	SI O ₄ -Si µg - ol/1	NODC TATION IJMBER 0018	205
REFERENCE CTIP ID, COOR NO. 311506	SNIP CODE MESSENGR TIME HR 1/10 0 4 1	CAST NO.	OE LOI 1/10 ON 07 CARO TYPE	NGITUOE ' 1/10 2480W 0EPTH (m) 0025 0030	10 ⁴ 260	SOEN JARE 1' 92 WA COLOR CODE CODE	5TAT (MO E 05] TER TEANS m) 5 327 327	ION TH GMT) DAY H 2 C V DIR 03 */.	ME R.1/10 41 100 502 502 502 502 502 502 502 5	YEA8 1969 MATE E Imbi 23 MA-T 34 35	CRUISE NO. KB2 CRUISE R CR R CR R CR ANDM	0RIGINA ST., NL 018 AIR TEMI 0RY ULB 66 50 C VOLUM (ALT-210 ²)		VIS. CODE 5 5 (N, M, 10 ³	DEPTH 10 BOTTO/ BOTTO/ 0237 NO. 085. DEPTH 07 SC VEI 14 14	MA DEPT OF S'MPI S'MPI SOBSEF	ECIAL VA NONS	WAVE ERVATIONS HGT PTR 5 PO4-P μα-ατ/1	WEA THER CDDE 44	CLOUD CODES TYPE AM 8 NO ₂ -N yg - et/l	NO ₃ -N µ ₀ -at/1	SI O ₄ -Si yg - ol/1	NODC TATION IDMBER 0018	205
REFERENCE CTTT ID. COOR NO. 311506	SNIP CODE MESSENCE TUME NR 1/10	CAST NO.	OR LOI 1/10 DN 07 CARO TYPE OBS STD STD	NGITUOE 1/10 2480W 0ЕРТН (m) 0025 0030 0050	-0 -0 -0	SOEN JARE 1' 92 WA COLOR CODE CODE 175 177 181	5TAT 0 5 1 TER TERNS 5 327 327 327	ION TI GMTI 2 C W DIL 03 •/	ME <u>R_1/10</u> <u>141</u> <u>100</u> <u>502</u> <u>502</u> <u>512</u> <u>512</u> <u>526</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>266</u> <u>2</u>	YEAB 1969 RAN F Imbu 23: MA-T 34 35 35	С RUISE NO. К В 2 С RUISE R С R 4 - 1 SFCCFAC АНОМ	0RIGINA ST., NL 018 AIR TEMI 0RY ULB 66 5 VOLUM ALT-210 ⁷ 6846 6775	TOR'S ATIONA ATIONATION ATIONATION ATIONATIONATIONATIONATIONATIONATIONATION	VIS. CODE 5 5 0 N. M. 200	DEPTH 10 BOTTO BOTTO 0237 NO. 085. DEPTH 07 SC VEI 14 14 14	MA DEPT OF S'MP S'MP S'MP OBSEF	ECIAL VA TONS	WA VE ERVA ΠΟΝS HGT PTR 5 PO4-P μ0 + 41/1	WEA THER CDDE 44	CLOUD CODES TYPE AM 8 NO ₂ -N yg - et/l	NO3-N vg-at/1	51 O ₄ -52 19 - 01/1	NODC TATION JUMBER 0018	SCC
REFERENCE CITY ID. CODE NO. 311506	SNIP CODE MESSENGE TIME NR 1/10 0 4 1	7916	OF LO 1/10 ON 07 CARO TYPE OBS STD STD OBS	0025 0050 0050	-0 -0 -0 -0	SOEN JARE 1' 92 WA COLOR CODE CODE 175 177 181 181	5TAT MO E 05] TER TEANS S 327 327 327 327	ION TI GMTI 2 C V DIL 03 */	ME <u>R_1/10</u> <u>141</u> <u>100</u> <u>502</u> <u>502</u> <u>502</u> <u>516</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>27</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u></u>	YEA8 1969 RANC F (mb) 23 MA-T 34 35 35	CRUISE NO. KB2 CRUISE NO. R R CRUISE R CRUISE R CRUISE NO. NO. NO. NO. NO. NO. NO. NO. NO. NO.	0RIGINA ST. NL 018 A IR TEM 0RY ULB 66 50 50 66 66 6775	TOR'S ATION IMBER P. C WET RULE	VIS. CODE 5 5 200 5 5	DEPTH 10 BOTTO/ 0237 NO. 085. DEPTH 07 50 VEI 14 14 14 14	MA DEPT OF S'MPP S'MPP S'MPP S'MPP S'OBSEF OBSEF 385 385 385	E 085 5 012 ECIAL VA TON 5 02 m1/1	WAVE JERVATIONS HGT PIR PO4-P μα - ατ/1	WEA THER CODE 44	CLOUD CODES TYPE A.M. 8 NO ₂ -N µg - et/l	NO ₃ -N µg - at/1	SI O ₄ -Si yg - at/1	NODC TATION JUMBER 0018	SUC
REFERENCE CTTT ID. COOR ID. 311506	SNIP COOE MESSENGE TIME NR 1/10 0 4 1	7916	OT LO 1/10 ON 07 CARO TYPE OBS STD STD OBS STD	0025 0050 0050 0050	-0 -0 -0 -0	175 177 181 173	5TAT MO E 05 1 TER TEANS 327 327 327 327 327	ION TH GMTI 2 C 9 03 •%.	ME R.1/10 141 141 SMEC SD2 SIG 266 266 266 266 266 266 266 26	YEA8 1969 RAR(F MA-T 34 35 35 43	CRUISE NO. KB2 CRUISE NO. KB2 CRUISE R CRUISE R CRUISE NO. R CRUISE NO. R CRUISE NO. R CRUISE NO. CRUISE NO. CRUISE NO. CRUISE NO. CRUISE NO. CRUISE NO. CRUISE NO. CRUISE CRUISE NO. CRUISE CR	0RIGINA ST. NIL 018 AIR TEM 0RY 0CV 0LL 66 66 6775 6056	tor's Athon WET RULE	VIS. CODE 5 5 ∧ 0 (N, M. 10 ³	DEPTH TO BOTTO 02377 NO. 085. DEPTH 07 SCC VEI 144 144 144	MA DEPT OF S'MPI S'MPI S'MPI S'MPI S'MPI S'MPI S'MPI S'SSEF S'SSEF 383 385 385 385	R N 085 	WAVE ERVATIONS HCT FEE 5 PO4P μ0- α1/1	VEA THE CDDE 44	CLOUD CODES TYPE AM 8 NO ₂ -N yg - et/l	NO3-N 90-av/1	SI O ₄ -Si yg - ot/l	NODC TATION UMBER 0018	500
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							COLOR	TRAHS (m)	DIR F	MEED OR DRCH	M ETI (mbi	ER 1}	ORY BULB	WET BUL	C 00	DE	DBS. PTH S	OBSERV	ATIONS									
								Ļ	36 <u> </u> S	02	21	0 -	120	L		10	07			Ļ				- T				
		MESSENGI TIME HR 1/10	CAST NO.	C ARD TYPE	OEPTH (m)	т	*	5.	/	SIGM	∧ -T	SPECI	IC VOLU	IM E 10 ⁷	₹ △ C DYN, A X 10 ³	A.	SOU VELO	CITY	0 2 m l/	n	PO4=P 29 * 01/L	TDTAL-P µg - et/l	NO 2 40 + 01.	N NO /I µg -	01/1	SIO ₄ —Si 1/10 - وبر	рН	500
			1]																					1	
		200)	OBS	0025	-0	176	320	58	258	1						143	374										
				ST	0030	-0	177	322	4	259	6	00	2051	6			143	377										
				STI	0050	-0	178	327	2	263	5	00	681	9			143	386										
		20)	OBS	0050	-0	178	327	18	263	5	~ ~		-			143	386										
				ST	0075	-0	173	328	1	264	2	00	613	3			143	394										
		200)	OBS	0075	-0	173	328	06	264	2	~ ~		~			143	394										
				ST	0100	-0	160	329	5	265	3	00	1505	3			144	+06										
		201)	085	0100	-0	160	329	48	265	3	~ ~ ~					144	106										
				SIL	0125	-0	103	330	5	270	8	000	1983	4			144	+4/										
		2.0		511	0150	-0	059	341	5	214	<u>′</u>	000	0614	4			144	+79										
		200	J	085	0150	-0	059	341	55	274	{	0.01	204	2			144	+ / 9										
		201		510	0200	-0	011	340	1	278	1	000	1294	2			141	10										
		200	,	085	0200	-0	011	340	20	278	1						145	010										
		200	,	0BS	0235	-0	008	340	20	278	2						145	23										
																							_					
REFE	RENCE	SHIP		~	LONGINION E	W/ R	SDEN	STATIC	N TIME			ļ	ORIGIN	ATORS		DE	EPTH	MAX. DEPTH		W	AVE	WEA-	CLOU	D			NODC	
C187 2003	10. NO.	CODE	•	1/10	· 1/10	10*		MOION	Y HR L	10	LAR	CRUIS NO.	E S	TATIO	N R	801	том	OF STARFL'S	08	Тно	Tere to	CODE	7781 14			N N	UMBER	
31	1506		7916	ON C	72480W	260	92	05 1	2 22	5 1	969	ква	02	1		02	37		_5%	1							0021	
							WA	ER	WIN		BAR	. L	AIR TE	MP. C		N	10,	SPEC	141	1								

MESSENGE TIME O	CAST NO.	C ARD TYPE	DEPTH (m)	COLOR COOE	TRANS Int	or 36 ∙⁄	SPEED DR FORCE SO5 SIGM	METER (mbs) 200	DRY BULE - 140 SPECIFIC VOLL ANOMALE-E	ME 07		OBS. DEPTHS 07 SO	O82E8		PO4-P	TDTAL-P	NO2-N #0 + 01/1	NO3-N	Si O4-Si ya - ot/l	рН	500
HE 1/10										-	10-	+									+
225	I	OBS	0025	-0174	327	15	263	4		1		14	384	I	I	I	I	ļ	l	i	I
		STD	0030	-0171	327	2	263	4	001687	4		14	386								
		STD	0050	-0165	327	2	263	4	001686	2		14	392								
225		OBS	0050	-0165	327	16	263	4				14	392								
		STD	0075	-0175	327	8	263	9	001635	9		14	393								
225		OBS	0075	-0175	327	76	263	9				14	393								
		STD	0100	-0164	329	4	265	2	001512	0		14	404								
225		OBS	0100	-0164	329	38	265	2				14	404								
		STD	0125	-0100	339	7	273	4	000739	9		14	453								
		STD	0150	-0053	345	9	278	2	000284	8		14	488								
225		OBS	0150	-0053	345	91	278	2				14	488								
		STD	0200	-0010	345	9	278	0	000303	1		14	516								
225		OBS	0200	-0010	345	94	278	0				14	516								
225		OBS	0235	-0007	346	19	278	2				14	523								

REFERENCE					-		STA			_	1	ORIGIN	ATORS		0.0		MAX,		WAVF	WFA	CLOUD	r	1	NORC	
CTRY IO.	SHIP CODE	LATITU	OE LO	ONGITUDE	So So	UARE	***	(GMT)		YEAR			STATIO	N	1 1011		OEPTH OF	OBS	ERVATIONS	THER	CODES			TATION	
NO.			1/10	1/10	- 10	· ····	MO	DAY HI	1/10		NO.		0.000				2.Whr.2	DIR.	HGT PER SE	•				00.3.2	ł
311506		7916	ON TO	72480W I	126	0 <u>192</u>	05 TER	13 0 w	42 IND	1969	IKB2	AIR TE	2 MP. C		10 Z J	3/1		L			1 1	1	I	00221	
						COLOS	TRANS	DIR	SPEED	MET	ER	ORY	WET		OF	BS.	SPEC DBSERV	TIAL ATION S							
						CODE	ţm J		FORC	E Imbi		0.0	8011	'	0.	-									
		-					4_	20	102	18	0 -2	00	<u> </u>	0		/]			·rr					1	
	TIME	다 CAST	C ARD TYPE	OEPTH (#	1	3 1	s	٠⁄	SIG	MA-T	SPECIFI ANOA	C VOLU	IME 107	Z A U DYN, A	Å	VELOC		02 mt/l	PO4-P yg - e1/l	101AL-P +g = 01/1	NO2N 29 - 01/1	NO3-N	51 O4-5	рH	ĉ
	HR 1/10				_				-					1 10-	+		-+								+
	042] 	085	0025		0178	32	711	26	34	1		I		' :	143	82					I		1	1
			STD	0030	-	0178	32	71	26	34	001	688	2		:	143	83								
			STD	0050	-	0179	32	72	26	35	001	683	3		1	143	86								
	042		OBS	0050		0179	32	716	26	35		600				143	86								
	0.67			0075	_	0173	32	02 824	26	43	001	299	4			143	94								
	042		STD	0100	_	0161	32	93	26	51	001	520	4			144	06								
	042		OBS	0100	-	0161	32	928	26	51					1	144	06								
			STD	0125	-	0103	33	63	27	07	000	998	7		1	144	47								
			ST0	0150	-	0059	34	14	27	46	000	626	6			144	79								
	042		085	0150	_	0059	34	139	21	46	000	307	6		;	144	14								
	047		OBS	0200	_	0013	34	586	27	80	000	501	0			145	14								
	042		OBS	0235	-	0007	34	603	27	81						145	23								
REFERENCE					.=	RSOFN	STA	TION TO	ME		1	DRIGIN	ATOR	5	0.6	РТН	MAX.		WAVE	WFA	CLOUD	1		NOOC	1
CTRY ID.	CODE	LATITU		ONGITUDE	SQ SI	UARE		GMTI		YEAR	CRUIS	E .	STATIO	N		10	DEPTH OF	OBS	ERVATIONS	THER	CODES			STATION	1
			1/10	1/10	- 10	· ··	MO	DAY H	21/10		NO.	-	NUMBE	R	-		S'MPL'S	DIR,	HGT PER SE	A	TYPE AM	T			1
311506		7916	ONIO	72480W	126	0 92	05	<u>13 1</u>	25	1969	KB2	02	3	- 1	02	37		L		I	1	1	1	0023	1
						COLOS	TRANS		SPEEC	AR MET	0 ER	ORY	WET			0. 85.	SPEC DBSERV								
						COOE	im)	D'IN.	FORC	1 (mb:	1)	BULB	BULE	3	DEP	THS									
	·	<u> </u>		· · · · · · · · · · · ·			<u> </u>	06	\$10	18	6 - 1	30		7	0.	7									
	MESSENGR TIME	CAST NO.	CARD	OEPTH (1	τc	5	•/	SIG	MA-T	SPECIFI	C VOLU	IME	≨∆C OYN, A	2.	SOU	NO	02 m1/1	PO4-P	101AL-P	NO2-N	N03-N	5104~5	н	ş
	HR 1/10				- -				<u> </u>				·	X 10 ³		VELON			q• ai/i	¥0 - 01/1	u = ۵۱/۱	yg - 61/1	N8 - 91/	Υ <u>·</u>	c
				1				- • •	1		ļ														
	125	1	085	0025	-	0177	32	710	26	35	001	496	2			143	83								
			STD	0050	_	0179	32	72	26	34	001	684	õ			143	86								
	125		OBS	0050	-	0179	32	715	26	34			•			143	86								
			STD	0075	-	0172	32	78	26	39	001	637	3		:	143	94								
	125		OBS	0075	-	0172	32	775	26	39			2			143	94								
	126		OBS	0100	_	0163	32	97 972	20	55	001	400	2		:	144	05								
	1-2		STD	0125	-	0099	33	66	27	09	000	977	2		÷	144	49								
			STD	0150	-	0052	34	16	27	48	000	611	5		1	144	82								
	125	i	OBS	0150	-	0052	34	163	27	48					1	144	82								
	126			0200	_	0012	34	50 507	21	81	0000	299	8			145	15								
	125		OBS	0235	_	0007	34	618	27	82						145	23								
REFERENCE	C 24 (B)			[. E W/	RSOEN	STAT	ION TH	ME		<u> </u>	ORIGIN	ATOR		00		MAX.		WAVE		CLOUR	· · · · ·			
CODE NO.	3000	LATITU	DE LO	DNGITUOE		UARE	140	IGMTI		YE AR	CRUISE		STATIO	N	1 6011	бо	DEPTH OF	OBS	ERVATIONS		CODES			TATION	

COL	7) E	10. NO.	CODE		1/10	LONGITUOE	NO N	1010	Axe T is		IGMI		YE AR	CRUIS	E S'	ATION		TO BOTTOA	OF	0	BSER	VATIO	NS	THER	co	DES			ST.	ATION	
	+					1710	+-+	. 10	1 - 1	~0	DAT	R. 17 10		140.		UMBER	·		SMPL	S DIR.	, HO	GT PER	SEA	0001	TYPE	AM'	1		NU	JMBER	
3	11	506		7916	ON	072480₩		260	92	05	13 (183	1969	кв2	024			0237	<u>ــــــــــــــــــــــــــــــــــــ</u>					1		8			C	0024	
									COLOR	TRANS	DIR.	SPEED OR FDRC	8ARi METI F (mbi	0	DRY	WET BULB	VIS.	NO. OBS. DEPTHS	SPE	CIAL ATIONS											
										-	08	\$15	18	6 -1	50		8	07													
			MESSENG TIME HR 1/11	CAST NO.	CARE	ОЕРТН	(m 1	т	č	s	•⁄	SIG	MA-T	SPECIFI	C VOLUN	AE 2	E A O DYN. M X 10 ³	SO VEL	UNO OCITY	0 2 m 1/	1	+PO 19 • 01	P 1	101AL=F 99 - 01/I	NO2	-N 01/1	NO3-N 46 - 01/1	51 O 4- 99 - 94	Si 91/1	pН	s
		1					_					1											T						1		T
			18	3	OBS	002	5	-0	174	32	718	26	35					14	384												
					ST	0 0031	0	-0	176	32	71	26	34	001	6902	!		14	384												
					ST	0050	0	-0	179	32	71	26	34	001	6910			14	386												
			18	3	OBS	0050	0	-0	179	32	706	26	34					14	386												
					ST	D 007	5	~0	171	321	80	26	41	001	6191			14	395												
			18	3	OBS	007	5	-0	171	32	799	26	41					14	395												
					ST	D 010	0	-0	161	329	94	26	52	001	5135			14	406												
			18	3	OBS	0100	0	-0	161	32	937	26	52					14	406												
					ST	0 012	5	-00	99	33	57	27	02	001	0461			14	448												
					ST	0150	о	-00	054	341	60	27	39	000	6891			14	480												
			18	3	OBS	0150	о	-00	054		-								+00												
					ST	0200	С	-00	513	346	50	27	81	000	2992			14	535												
			18	3	OBS	0200	0	-00	013	34	597	27	81					1.4	616												
			18	3	085	023	5	_00	106	340	500	27	97					14	525												
			+0	-	000	V2).	-			240	122	211	02					14	224												

REFERE	NCE	SHIP	LATITU	OE	LONGITUGE	SCTR 20	RSDEN UARE	STAT	GMT	ME	YEAR	CRUIS		ATOR	's DN	DEPTH TO	MAX DEPTH OF	H	OBSER	AVE VATI	ONS	WEA- THER CODE	CLOUT	s		NODC STATION NUMBER	
311	NO.	CODE	7916	1/10 O N	072480W	260	1° 92 WA	MO 05 TER	13 1 13 1	99 1ND	1969 BAR	KB		5 MP. 1		0237 NO. OBS.	STMPL			GT PE	R SEA	1	e		-	0025	
							COLOR	Im1	DIR.	FORC S10	E (mbi	9 -	9018 120	ອບ	7	07	S OBJER										
		MESSENG TIME	CAST NO.	C A R TYP	O DEPTH 6	n 3	т°с	s	•/	SIG	MA-1	SPECIF	MALY-X1	0 ME	₹ △ C DIN. A X 10 ³	0 SC A. VE	LOCITY	02	ml/1	₽0, ⊭9	P 01/1	TOTAL-P µg • et/l	NO2-N µg - 01/	NO3~N µg - a1/	SI O 4- VO - 1	_Si и/П рн	500
		19	9	085 51 51 085 51	5 0025 1D 0030 1D 0050 5 0050 1D 0075	-	0175 0176 0178 0178 0178 0171	32 32 32 32 32 32	721 71 71 709 82 821	26 26 26 26 26 26	35 34 34 34 34 34 34		1690 1688 1602	2 9 2			4384 4384 4386 4386 4395 4395	I	1		1	I		1		l	I
		19	9	083 083 51 51	D 0100 0100 D 0125 D 0125		0157 0157 0087 0040	32 32 33 34	99 989 71 21	26 26 27 27	56 56 712 751	00 00 00	1474 0943 0580	6 5 4		14	4408 4408 4455 4488										
		19 19 19	9 9 9	083 S 083 083	5 0150 10 0200 5 0200 5 023) –) –) –	0040 0012 0012 0006	34 34 34 34	211 5B 584 627	27 27 27 27	780 780 783	00	0309	6		1 - 1 - 1 -	4515 4515 4524										

REFER	ENCE	SHIP	LATITI	DE	LONGITU	OF LIN	50U	ARE	STATIC (G	N TU	ME	YEAR	1000	DRIGINA	TOR'S		OEPTH TO	OEPTH	085	WAV SERVA	'E TIONS	W EA THER	CLO	UD DES			NODC STATION	
CODE	1D. NO.	CODE	•	1/10	•	1/10	10*	Tr	MOID	AY HE	R.1/10		NO.	NL	MBER		BOTTON	S'MPL	S DIR.	NGT	PER SE	A COD	TYPE	A 44 Y			NUMBER	
31	1506		7916	ON	07248	ow	260	92 1	05 1	4 0	42 1	969	KB2	026			0237	-	I	11	1	73	X	8			0026	
-								WAT	ER	W	/1NO	- 8AR	>-	UR TEM	Ρ. Ο	- VIS.	NO.	SPI	CIAL									
								COLOR	TRANS. Im)	DIR.	OR FORCE	(mbi	ER (1) 9	ULB	BULB	CODE	DEPTHS	OBSER	A TION S									
										08	<u>\$15</u>	11	2 - 1	30		3	07			L		-	-	- 1-	r		1	
		MESSENG	CAST	C AI	RD DE	PTH (m)	т	Ċ	s.	·	SIGM	I-A	SPECIFIC	ALY-X10	E D	Δ D YN. M x 10 ³	- SO	OCITY	D2 ml/	PC) 4 - P + ot/I	TOTAL=1 99 - 01/1	NO ₂ -	N 1/1	NO3N 99 - at/l	SIO ₄ —! بو - ما	51 p.H	S C C
		HK 1/10			_	_	+		1		t	_					-											
		0.4	ן כ		s 0	0 2 5	-0	178	327	07	263	4	I		1		14	382		'								
		0.4	2	S	тр 0	030	-0	178	327	1	263	34	001	6898			14	383										
				S	το ο	050	-0	179	327	3	263	36	001	6726			14	386										
		04	z	OB.	S 0	055	-0	179	327	36	263	86					14	387										
				S	TD 0	075	-0	174	327	9	264	+0	001	6269			14	393										
		04	2	OB	s c	075	-0	174	327	88	264	+0					14	696										
				S	TD 0	100	-0	157	329	7	265	55	001	4884			14	408										
		04	2	OВ	S O	100	-0	157	329	71	265	55		0100			14	408										
				S	TO C	125	-0	110	351	3	271	12	000	9190			14	475										
				S	TD C	150	-0	070	342	4	275		000	2410			14	475										
		04	2	OB	5 0	150	-0	010	342	44	273	70	0.00	3144			14	4514										
				5		200	-0	013	245	77	27	70	000	2244			14	514										
		04	2		5 0	200	-0	013	346	24	279	83					14	+523										
		04	2	UB	5 (231	-0	001	540																			
																	r	1 44.6					1					٦
REFE	RENCE	SHIP					5 <u>%</u>	RSDEN	STAT	ION T	IWE	VC & 0	-	ORIGIN	ATOR'S		DEPTI	H DEPT	μ μ	W A BSERV	VE A TION:	S THE	R CLC	DES			NODC STATION	

REFE	RENICE	CODE .		. I		5 %	ILARE	IG	MT)	YFAR				TO	DEPTH	1 085	ERVAT	IONS	THER	COL	DES		51	TATION	
CODE	NO. CODE 1/			1/10	1/10	2 10	- 1- 1-	MOLDA	YHR	/10	CRUIS NO	E STA	ABER	BOTTOM	S*MPL	S DIR	HGTPE	R 51	CODE	TYPE	A AST		N	UMBER	
31	1506		7916		072480W	260	92	05 14	4 12	4 1969	KB	2 027		02 <u>37</u>				1	73	X	8		1	0027	
- 1	1 2 0 0						WA	TER	WI	D	RO	AIR TEMP.	°C	NO.	50	CIAL									
							COLOR	TRANS,	DIR.	ORCE (m	TER bal	DRY N BULS 6	VET COD	E OBS. DEPTHS	OBSER	VATIONS									
								0	D7 5	05 0	35 -	120	4	07						-					-
		MESSENG TIME	CAST	CA TY	RD DEPTH UM	,	ס י ז	۶ .	<i>.</i> .	SIGMA-T	SPECI	FIC VOLUME	₹ △ D DYN. A x 10 ³	. SO VEL	UN O O CITY	0.2 ml/l	PO. VQ •	a1∕1	TOTAL=P μg = σ1/l	NO2- µg - 0	-N N 1/1 y	103-N g - a1/1	SIO4-Si µg - at/1	рН	.00
			1																						I
		12	4	OB	s 0025	(0176	327	41	2637				14	383										
				S	0030	- (0177	327	5	2637	00	16623		14	384										
				S	TD 0050	- (0178	327	6	2638	00	16466		14	387										
		12	4	OB.	s 0050	- (017B	327	64	2638				14	387										
				S	TD 0075	-(0172	328	2	2643	00	16043		14	395										
		12	4	08.	S 0075	- (0172	328	18	2643				14	395										
				S	TD 0100	-1	0157	329	9	2656	00	14746		14	408										
		12	4	OB	S 0100	-1	0157	329	89	2656				14	408										
				S	TO 0125	-1	0100	337	2	2714	00	09310		14	450										
				S	TD 0150	-	0057	34Z	3	2753	00	05581		14	481										
		12	4	OВ	S 0150	-	0057	342	30	2753				14	481										
				S	TD 0200	-	014	345	8	27BO	00	03101		14	514										
		12	4	QВ	S 0200		0014	345	82	2780				14	514										
		12	4	QВ	S 0235	-	0007	346	18	2782				14	523										

REFER CTRY CODE	ID, NO.	SHIP COOE	LATITU	O₹ 1/18	LONGITUE	DE 1/10	4/ 2 SQU	SDEN IARE	AT2	TION IGMT	TIME HR,1/10	YEAR	CRUISE NO.	ORIGIN S N	ATOR TATIO	'S DN IER	DE BOT	EPTH TO TTO M	MAX. DEPTH OF S'MPL'S	s c	OBSER		E TONS ER SE	•	WEA- THER CODE	CLO	OL ES			NOOC STATION NUMBER	
31	1506		7916	ON	07248	owl	260	إعط	05	14	159	1969	Ікв2	02	8	~ 1	102	37		1_	!			1	70	X	8			0028	
								WA	T T	+	WIND SPEE		p- ├	0.00	Mr. (- vi	L N	NO.	SPE	CIAL											
								COOE	TRAN (m)	DIR	FORC	E (mbi	n 0	ULB	RUI		DE	PTHS	OBZERV	AIIC	2012										
									-	00	500	08	5 -0	85		7	0)7													
		MESSENG TIME NR 1/10	CAST	C A TY	RD OEP	TH (m)	г	r	_	•4.	SIG	MA-T	SPECIFI	C VOLU	ME 07	₹ △ (DYN. / X 10 ³	р М.	SOU VELO		02	m1/1	PO V9	4-P 01/1	101 29	AL−₽ • a1/1	NO2- 98 - 0	N /	NO3-N 29 - al/l	SiD4 µg-ol	Si И рН	500
		15	 9	oa.	s o	025	-0	136	32	718	26	34						144	402												
		12	,	S	TD 0	030	-0	143	32	72	26	34	001	692	2			144	400												
				S	TD 0	050	-0	163	32	71	26	34	001	6883	2			143	393												
		15	9	08	s 00	050	-0	163	32	714	26	34						143	393												
				S	TD 00	075	-0	173	32	81	26	42	001	612	5			143	394												
		15	9	0B	s 00	075	-0	173	32	807	26	42			_			143	394												
				S	TD 0	100	-0	161	33	03	26	60	001	442	2			144	407												
		15	9	08	S 0	100	-0	161	33	030	26	60	000	a 7 7	1			144	407												
				5		125	-0	101	20	20	21	19	000	504	0 1			144	120												
				5		150	-0	057	24	200	21	29	000	5040	0			144	+02 .97												
		15	9	08	5 0.	200	-0	057	34	500	27	79	000	317	7			149	514												
		16	0	0.00	C 01	200	-0	014	34	572	27	79		211				145	514												
		15	9	08	s 0;	235	-0	007	34	671	27	86						145	524												
		1 2	-								_																				

							_		_																		
REFER	ENCE	1.010				L #	147 B	SDEN	STAT	ION T	WE			ORIGIN	ATOR.	2	OEPTH	MAX		WAV	£	WEA	CLOUD			NOOC	
CTRY	10,	CODE	LATITU	90	LONGITUOE	NO N	500	ARE	{	GMD		YEAR	CRUIS	E 3	ITATIO	N	TO	OF	085	IERVA	TIONS		CODES			STATION	
008	NO.		-	1/10	.1/1	0 =	10.	1.	MOID	H YAC	R.1/10		NO.		NUMBI	R	- Control	" S'MPL	S DIR.	NGT	ER SE	A 0001	TYPE AM	1		- CHIECK	
31	1506		7916	ON	072480		260	92	05 1	4 2	201	1969	ква	2 02	9		0237	•	1				1 10	1		0029	
								WA	TER	V	INO	BAR).	AIR TE	MP. °C	1	NO,	1 10	CIAL								
								COLOR	TRANS.	OR	SPEED OR	METI	R	ORY	WEI	COD	OBS.	OBSER	ATIONS								
								COOL	(um)	<u> </u>	FORC	E (W.P.I	1	8018	801	8	100000	1									
										04	S03	08	в⊣о	92		8	07										
		MESSENG	CAST	CA		(m)	1	r	,	•/	510		SPECIE	ις νοιυ	ME	≨ ∆ D	so	UNO	0 n m1/l	PO	4-P	TOTAL-P	NO2-N	NO3-N	SI 0 4-5	i	S
		HR 1/1	ND.	TY.	PE St. III			-					AND	MALY-XI		x 10 ³	VEL	0011	0,1001	9.	• a1/1	µg - qi∕l	μg - α1/i	l/le - ₀µ	µg - αt∕	1	č
			1				1																		1		
		20	1	08	5 002	5	-0	171	327	30	26	36					14	386									
				S	rD 003	0	-0	173	327	2	26	35	001	683	1		14	385									
				S	TD 005	0	-⊸0	178	327	12	26	35	001	682	7		14	386									
		20	1	08.	5 005	0	-0	178	327	17	26	35					14	386									
				S	TD 007	5	-0	172	328	32	26	43	001	605	0		14	395									
		20	1	08	5 007	5	-0	172	328	317	26	43					14	395									
				S	TD 010	0	-0	151	329	99	26	56	001	474	7		14	411									
		20	1	08	5 010	0	~0	151	329	991	26	56					14	411									
				S	TD 012	5	-0	091	337	1	27	13	000	942	0		14	454									
				S	TD 015	0	-0	048	342	22	27	52	000)572	9		14	485									
		20	1	0B:	s 015	0	-0	048	342	216	27	52					14	485									
				S	TD 020	0	-0	013	345	7	27	79	000	317	5		14	514									
		20	1	OB:	5 020	0	-0	013	345	573	27	79					14	514									
		20	1	OB:	5 023	5	-0	006	346	09	27	81					14	524									

REFERENCE	C1410				. =	1A/ 25	OEN	STA	TION	TIME		Γ	ORIGI	NATO	R*S	Т	OEPTH	MAX.	T	WAY	٧E	WF	A-	CLOUD			NOOC	
CTRY IO.	COOE	LATITU	Oŧ	LONGITUDE	N D O	squ	ARE		GMT	1	YEAR	CR	UISE	STATI	ON	1.	TO	OF	085	ERVA	TIONS	TH	ER	CODES	1		TATION	
NO.			1/10	'1/10	=	10"	1.	MO	YAO	HR.1/10		' ا	NO.	NUM	BER	ľ	- IOM	S'MPL'	OIR.	HGT	PER SE	A CO	DE	TYPE AM	r -		NUMBER	
311506	, I	79160	л и С	072480W		260	92	05	15	041	1969	Ιĸ	B2 03	0		6	237							4			0030	
							WAT	ER		WINO	BAR)- ·	AIR TE	MP.	c I	Л	NO.	197										
							COLOR	TRAN (m)	S. DIR	SPEEC DR FDRC	P METI E lmbi	R	DRY BULB	80 80	ET COI LB	Ďŧ	OBS. DEPTHS	OBSERV	ATIONS									
									00	500	08	1	-108	Ι	8	Τ	07											
	MESSENG TIME NR 1/10	CAST NO.	CAP	0 OEPTH (m)	т	ť		•/	SIG	MA-T	578 A	CIFIC VOL	UME 1107	≨ ∆ (DYN, 1 X 10	о м.	SOL	JNO DCITY	0.2 ml/i	P(vg	04-P - 01/1	TOTAL. Pg - of	-P /1	NO2-N vg + ot/l	NO3-N 99 - a1/l	\$1 D45 yg - al/	pН	
																				1		_					1	Ť
	04	2	085	0025	5	-0	170	32	721	26	35						143	386		,								Ċ
			S1	D 0030)	-0	172	32	72	26	35	0	01684	1			143	386										
			S1	D 0050)	-00	175	32	71	26	34	0	01688	17			143	388										
	04	2	085	6 0050)	-0	175	32	710	26	34						143	388										
		_	S1	D 0075	ò	-0	170	32	82	26	43	0	01602	4			143	396										
	04	2	085	5 0075	2	-0	170	32	821	26	43						143	396										
		_	SI	D 0100)	-0	153	33	00	26	57	0	01468	0			144	410										
	04	2	089	5 0100)	-0	153	32	999	26	57			-			144	410										
			51	D 0125	2	-00	092	33	12	27	13	0	00934	0			144	453										
		_	51	0 0150	,	-00	148	34	22	27	52	0	00566	8			144	485										
	04	2	085	0150	,	-00	148	34	224	27	52						144	485										
	04	-	- 51	0200		-00	111	34	28	27	79	0	00315	5			145	515										
	04	2	085	0200		-00	11	34	511	27	79						145	515										
	04	2	085	0235)	-0(108	34	080	27	88						145	524										
REFE	LENCE			- 1		1		(O[H]						ORGIN	ATOP	·c		MAX	T			1	CLOWO	I	I			
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Ctarl.	10	SHIP	LATITU	DE	LONGITUGE	C1 P	sou	ARE	10	GMT		YEAR	COLUC	d d			TO	OEPTH	085	ERVAT	IONS	THER	CODES		5	ATION		
CODE	NO.	C005	•	1/10	• •1/		10*	11	MOIO	HYA	R,1/10		NO.	;	NUM	ER	BOTTON	A S'MPL	S OR	HGT	ER SEA	COOF	TYPE AM	-	N	UMBER		
31	1506		7916	ON	072480	~	260	92		5 1	22	1969	ква	03	1 MP. 7	: 1	0237						4			0031		
								COLOR	TRANS. Lm)	DIR.	SPEED OR FORCE	METE (mbs	R 1	DRY RULR	RUI	t cod R	OBS. OEPTH	SPE OBSERV	CIAL /ATIONS									
										03	S05	09	8 - C	88		8	07											
		MESSENG TIME HR 1/10	CAST NO.	C AI TYI	RD DEPTH	ilm)	т	τ	s	•/	SIGA	AA-T	SPECIF	C VOLU	ME 07	∑ ∆ 0 DYN. N X 10 ³	. SO VEL		0 2 ml/l	PO. 29 -		TDTAL-P pg - of/1	NO2-N 19- al/1	NO3-N µg - 01/l	SLO4—Sı ا∕to-gv	pН	S C C	
			1				-				1						1										T	
		12	z	08	5 002	25	·_0	178	327	22	26:	35			•		14	382		•				•				
				S	TD 00	30	-0	178	327	2	26	35	001	679	8		14	383										
				S	TD 00	50	-0	178	327	3	26	35	001	676	6		14	386										
		12	2	083	5 00 !	50	-0	178	327	25	26	35					14	386										
				S	TD 00'	75	-0	173	328	1	26	42	001	608	7		14	394										
		12	2	083	5 00	75	-0	173	328	12	264	42					14	394										
				5	TD 010	00	-0	155	330)4	266	50	001	438	3		14	410										
		12	2	083	5 010	00	-0	155	330	37	268	50					14	410										
				S	TD 01;	25	-0	097	337	1	27	13	000	939	8		14	451										
				S	TD 01	50	-0	053	341	.9	275	50	000	591	9		14	482										
		12	2	OB:	5 01	50	~0	053	341	88	27	50					14	482										
				S	TD 02(00	-0	011	345	9	278	30	000	302	6		14	515										
		12	2	08:	5 020	00	-0	011	345	94	278	30					14	515										
		12	2	085	5 023	35	-0	007	346	23	278	93					14	523										

REFE	RENCE	SHIP	LATITUOE	LONGITUOE	DRIFT NDCTA	47 25 SOU	OEN ARE	STAT	ION 1	ПМЕ	YEAR	CRUISE		ATOR'S TATION	_	OEPTH TO	MAX. OEPTH OF	OB	WAV SERVA	TON	45	WEA- THER	CLC	DUD 0ES	NODC
2006	NO.		1/10	1/10	=	10*	1 11	MO	DAY	HR.1/10		NO.	N 1	I U MRER	- 1	10110 M	S'MPL'S	DIR.	HGT	PER	SEA	CODE	IVPE	AMT	NUMBER
31	1506		79160N	072480W		260	92	05	15	191	1969	KB2	03	2		0237			Π			72	X	8	0032
							WA	TER		WIND	RARC	- 1 -	AIR TEA	W.P. °C		ND.									
							COLOR CODE	TRANS.	OR	SPEED DR FORCE	D BARO- AIR TEMP, C AIR TEMP,				CODE	O85. DEPTHS	OBSERV	ATIONS							
								1	I	1	1				I										

						08	S08	098	-090		5	27									
MESSENGR TIME OF HR 1/10	CAST ND.	CARD TYPE	OEPTH (m)	1	τ	s •4.	SIGMA	-1	SPECIFIC VI	DLUME 	ΣΔD ΟΥΝ, Μ. χ 10 ³	SOL	DNO	02 ml/l	PO4-P µg - at/l	TOTAL⊸P μg = σ1/1	NO2-N 99 - 01/1	NO3-N NG - al/l	\$IO ₄ —Si yg - αt∕t	рH	S C C
																					П
•		STD	0010	-0	153	3274	263	5 [']	00167	68	•	14:	392	1				•			
191		085	0010	-0	153	32736	263	5				14	392								
		STD	0020	-0	165	3271	2634	4	00169	33		143	387								
191		OBS	0020	-0	165	32710	2634	4				143	387								
		STD	0030	-0	176	3272	263	5	00168	48		143	384								
191		085	0030	-0	176	32717	263	5				14:	384								
191		085	0040	-0	181	32720	263	5				14	383								
		STD	0050	-0	177	3272	263	5	00167	91		14:	387								
191		OBS	0050	-0	177	32722	263	5				14:	387								
191		OBS	0060	-0	176	32710	263	4				143	389								
191		085	0070	-0	173	32798	264	1				14	393								
208		085	0071	-0	172	32784	264	0				14:	394								
		STO	0075	-0	171	3282	264	3	00160	30		14	395								
208		085	0080	-0	169	32856	264	5				143	397								
208		085	0090	-0	165	32930	265	2				144	402								
		STD	0100	-0	163	3300	265	7	00146	24		144	406								
208		OBS	0100	-0	163	33003	265	7				144	406								
208		085	0110	-0	124	33303	268	1				144	430								
208		0 85	0120	-0	123	33571	270	2				144	436								
		STD	0125	-0	100	3383	272	3	00084	69		144	451								
208		085	0130	-01	095	33843	272	3				144	454								
215		08S	0131	-01	096	33817	272	1				144	454								
215		085	0140	-0(080	34012	273	7				144	465								
		STD	0150	-0	256	3424	275	4	00055	40		144	481								
215		085	0150	-00	056	34236	2754	4				144	+81								
215		OBS	0160	-00	228	34448	2770)				144	499								
215		OBS	0170	-0	029	34488	277	3				149	501								
215		OBS	0180	-0	022	34530	2770	5				14	506								
215		OBS	0190	-0	D18	34565	277	8				14	510								
234		OBS	0191	-0	D18	34543	277	7				149	510								
		STD	0200	-01	511	3457	277	9	00031	78		149	515								
234		085	0200	-00	J11	34574	2779	9				14	515								
234		UBS	0210	-00	110	34600	278	1				14	517								
234		085	0220	-01	007	34607	278	1				145	21								
234		UBS	0230	-01	005	34625	278	3				14	24								
234		082	0240	-0	005	34618	278	2				14	525								

REFERENCE	SHIP COOE	LATITUDE	10		N 20	SDEN JARE	STATIO IG	N TIME MTI	YEAR	CRUIS		ATOR'S	S N R	DEPTH TO BOTTOM	DEPTH DF S'MPL	OBS	WAVE ERVATIONS	WEA- THER CODE		Ŧ		NODC STATION NUMBER	
311506		791601	1 07	2480W	260	92 WA COLOR CODE	05 1 5 IER TRANS (5 199 WIND DIR 50	1969 60 645 60 MET (mt) KB 10- 1ER 341	Z 03 AIR TE DRY BULB	3 MP. °C BULI	vis. cop	0237 NO. 085. DEPTHS	SPE OBSER	ECIAL VATIONS		72	X 8			0033	
	MESSENGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m	,	r °c	s •/	4. si	GMA-I	SPECI	MALY~X	ME 0 ⁷	₹ Δ D DYN, W X 10 ³	SO VEL	UND OCITY	0 2 ml/l	PO4-P yg-ot/1	totaL=P µg = at/1	NO2-N Pg - at/1	NO3-N 48 - at/l	51 O 4 99 - 9	-Si 1/1 рН	200
	199 199 199 199 199		0BS STD 0BS STD 0BS STD 0BS STD 0BS STD 0BS STD 0BS 0BS	0025 0030 0050 0075 0075 0100 0125 0150 0150 0200 0235		172 174 176 169 169 159 101 058 058 014 008	3270 3271 3273 3285 3285 3305 3305 3305 3305 3305 3422 3421 3455 3455 3462	09 2 23 2 34 2 55 2 56 2 27 2 28 2 29 2 23 2 24 2 25 2 26 2 27 2 28 2 29 2 20 2 21 2 22 2 23 2 24 2 25 2	634 636 636 645 665 661 715 752 780 780 783		1690 1670 1579 1429 0923 0566 0310	6 1 6 6 1 9		14 14 14 14 14 14 14 14 14 14 14 14	385 387 387 397 397 408 449 480 480 514 514 514 523								1
REFERENCE CINT 10, CODE NG. 311506	SHIP CODE MESSENGR TIME HR 1/10	CAST NO.	LO 10 1 0 7 CARD TYPE	NGITUDE '1/10 2480W	260	SDEN JARE 1° 92 WA COLOR CODE	STATIO IGI MO DA 05 16 TRANS C TRANS C S */	IN TIME MT) 5 004 WIND DIR 0 FOT	TEAR 1969 BAR R CE INT GMA-T	CRUII NO KB RO- FER SECH ANO	ORIGIN 203 AIR TE DRY BULB	4 WP. TC WET BUL	S R VIS COD S S COD S COD N. M X 10 ³	DEPTH TO BOTTOM O 2 3 7 NO. OBS. DEPTHS O 7 A. SO VEL	MAX DEPTH OF S*MPL' OBSER UND DCITY	t OBS rs Du. ECIAL VATIONS	WAVE ERVATIONS HGT PER S	WEA. ТНЕR СООЕ 72 ТОТАL-Р ус. 01/1	CLOUD CODES TIPE AM X 7	1 ΝΟ ₃ -Ν μg - οι/Ι	\$1 O.4- µg - 0	NODC STATION NUMBER 0034	sec
	004	- C	8S STD	0025	 -0 -0	175	3269	 91 2 9 2	632 632	00	1707	3		14	383 384						ł	Ι	

												·							-									
REFERENCE	SHIP	LATITU	DE	LONGITUDE	UFT CTR	14, 25 SOU	DEN	STA	TION 1 (GMT)	IIME	YEAR	0	RIGINA	TOR'S		DEPTH	н (MAX. DEPTH	OBS	WAV	E	W	EA.	CLOUD			NODC	
CODE NO.	COOF	•	1/10	• 1/1	0 P Z	10*	1.	MDI	DAY	HR.1/10		NO,	ST N	UMBE	R	SOTTO:	M 5	OF "MPL"S	DIR	HGT	ER SE	- co	DE	TYPE AM	7		UMBER	
311506		7916	O N	072480	, [260	02	0.5	16	041 1	949	KB2	035			023	7							0	1	1	0035	
		/ / 10		012400		1200	WAT	ER	10	WIND	T _u	A	IR TEM	P. C	- 1 - 1		1			1 1	1	1		1 10	1	1	0000	
							COLOR	TRANS (m)	DIR	SPEED OR FORCE	AA ETE (mbs	R (DRY ULB	W ET BULB	CODI	DEPTH	15 0	SPEC BSERV	TIONS									
									18	\$15	180	6 -0	52		9	07												
	MESSENGI TIME HR 1/10	MO.	CAR TYP	D DEPTH	(m)	1	' C	s	•/	SIGM	A-T	SPECIFIC	VOLUN ALY-X10	AE (₹ △ 0 DYN. M X 10 ³	SI VE	OUN	D	0 2 m1/1	PO PO	4-P - 01/1	101AL 201AL	-₽ 1/1	NO2=N µg - at/	NO3-N 99 - ot/1	SI Q4S 29 - 01/	рН	500
																												+
	0.4	1	OBS	002	5	-01	177	32	641	262	8					14	43E	32 '		'							1	,
			ST	D 003	30	-01	177	32	67	263	1	001	7207	,		14	438	33										
			S1	D 009	0	-01	178	32	77	263	9	001	6435	,		14	438	37										
	04	1	OBS	005	0	-01	178	32	768	263	9					14	438	37										
	0.0		51	0 007	'5 	-01	171	32	89	264	8	001	5515			14	439	96										
	04	1	UBS		0	-01	1/1	32	981	264	8	001	1.667	,		14	435	96) 6										
	0.4	1	089	010	0	-01	163	32	OOR.	200	7	001	4002	-		1	440	16										
	04	1	51		5	-00)9B	33	43	269	ó	001	1535			1	440	46										
			Š	D 015	0	-00)51	34	19	275	õ	000	5906	, ,		14	448	33										
	04	1	085	015	0	-00	051	34	191	275	0					14	448	33										
			ST	D 020	0	-00	013																					
	04	1	085	020	0	-00	013	33	70P	270	9P																	
	04	1	OBS	023	15	-00	08	34	06P	273	7 P																	

STD

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OBS

OBS

-0176

-0176

-0171

-0171

-0159 -0159 -0096

-0051

-0051

-0013

-0013

-0007

3170P

2605P

2095P

2552P

REFERENCE	SHIP	LATITUDE	LONGITUDI	DRIFT	sdua		CTATION TI	ME	YEAR		RIGINA	TOR'S		DEPTH TD BOTTO/	MAX. OEPTH OF	085	WAVE ERVATIONS	W TH CC	VEA- HER ODE	CLDUD CODES		ST N	NODC TATION UMBER
CODE NO.		1/10	0724.00	10 -	10.	1. 1	NO DAY H	2.5	1040	10.	036	UMBER		0 7 3 7	2.0051.2	OIK.	HGT PER S	EA	1				0036
1 311506		191000	1072480	WII	2001	WAT		INO	BARO	- A	IR TEN	P. °C	- vis	NO.	SPEC			1				'	,
						COLDR	TRANS. (m) OIR,	SPEED OR FORCE	M ETE (mbs	R C J BU	JLB	WET BULB	CODE	DEPTH	OBSERV	A TION S							
					[06	\$01	22	7 -1	10		9	07									
	MESSENGR TIME HR 1/10	CAST C	ARD OEPT	Ή (m.)	т	°C	s •/	sig	MA-T	SPECIFIC	VOLUA ALT-319	, N	∆ 0 1N. M.	. so vei	OUND LOCITY	03 m1/1	PO4-P #9 - 01/1	TOTA yg -	L — P a†/1	NO2-N µg - at/l	NO3-N µg - 01/l	SI 04-51 49 - 01/1	рн
		<u> </u>										1						1					
	125	OE	is 00	25	-01	78	32685	26	32	001	6076			14	382								
			STD 00 STD 00	30 50	-01	.78	3275	26	37 37	0010	6560	1		14	387								
	125	OE	s 00	50	-01	77	32752	26	37					14	387								
	126	5	STD 00	75	-01	73	3275	26	38 38	0010	5534	:		14	393								
	125		5TD 01	00	-01	61	3341	26	90	001	1507	,		14	412								
	125	OE	s 01	00	-01	61	3180P	25	60P	000	702/			17	452								
			5TD 01	25 50	-00	55	3422	27	20 52	000	5667	,		14	482								
	125	06	s 01	50	-00)55	34220	27	52					14	482								
	125	. OF	STD 02	00	-00)16)16	3438	27	63 63	000	4049	,		14	510								
	125	06	5 02	35	-00	07	3401P	27	33P														
REFERENCE CTRY 10. CODE NO. 311506	SHIP COOE	79160N	LONGITUD 1. 072480		10° 260	OEN ARE 92 WAT COLOR COOE	STATION TI (GMT) MO DAY MO DAY 05 1.6 ER W TRANS DIR Im1 DIR	ME R.1/10 .80 /IND SMEED ORC:	YEAR 1969 BARC METE E (mbs	CRUISE NO. KB2 R C	ORIGINA S'N O 3 NR TEM DRY ULB	ATOR'S ATION UMBER 7 12. °C WET BULB	VIS. COOR	DEPTH TO BOTTO O 2 3 T NO. OBS. DEPTH	MAX, DEPTH OF S'MPL' 7 SPE OBSERV	OB DIR CIAL ATION S	WAVE SERVATION	S T EA C	NEA- HER OOE	CLOUD CDCES ITTE AMI		S N	NODC TATION UMBER
		<u> </u>		-			36	502	224	4 F0	40		8		1		l.,	1			·		1
	TIME HR 1/10	NO. T	ARD DEPT	(m)	T	τ	s •4.	sig	MA-T	ANOM	ALT-110	ș õ	YN. M X 10 ³	. ve	LOCITY	0 2 m1/l	PD 4-P	101A	u≠/1	NO2~N µg - at/l	NO3-N µg - a1/l	5104-51 49 - 01/1	pН
																		[Ì			i	
	180) OE	3S 00 STO 00	125	-01	176	32735	26	36 36	001	6708	3		14	+383								
			5TD 00	50	-01	178	3274	26	36	001	667	3		14	+387								
	180	0 06	3S 00	150	-01	178	32737	26	36 44	001	5951	2		14	+387								
	180) OE	35 00	75	-01	72	32829	26	44	001	,,,,	,		î	395								
	10/		STD 01	00	-01	60	3308	26	64	001	404()		14	408								
	180		55 01 57D 01	25	-01	107	3358	20	03	001	0356	5		14	4444								
		5	5TD 01	50	-00	65	3391	27	27	000	8025	ò		14	+473								
	180	000	3S 01. STD 02	50	-00)65)15	33905 3405	27	27 37	000	711			14	+473								
	180) 08	35 02	00	-00)15	34054	27	37	•••		•		ī	+506								
	180) 06	35 02	35	-00	007	34124	27	42					14	\$516								
REFERENCE	SHIP	LATITUDE	LONGITUC		**, .'S		STATION T	IME	YEAR	1	ORIGIN	ATOR'S		DEPT			WAVE		WEA-	CLOUC			NODC
10000	10005									Le euro	-	* * ****		1 10	1	1 0	DERVA HOLD		11460	1 0.010343			
COUC NO.		. 1/1	o • •	1/10 ⁰ ž	10*	1.	MOLDAY	IR, 1/10		CRUISE NO.		UMBER	(}	BOTTO	M S'MPL	S OR	HGTPER	SEA C	THER	TYPE A U	Ŧ		NUMBER

				COLOR	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	ORY BULS	8	V ET U L B	COOE	OBS. OEPTHS	DBSER	VATIONS							
						29	S04	227	-020			8	07									
MESSENGE TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	שיז	s	٠	SIGMA	L-T	SPECIFIC VOLI	J M E 107	¥ ОҮ Х	Δ 0 N. M. 10 ³	SO VEL	UN D OCITY	02 ml/l	PO4-P 29 - 01/1	FOTAL-P pg = of/l	NO2-N µg - a1/i	NO3-N ¥9 - at/l	\$104-\$1 µg = at/1	рH	
							1															T
201		085	0025	-0177	327	8 0 1	2634	4					14	382								
		STD	0030	-0177	327	72	263	5	001680	1			14	384								
		STD	0050	-0176	327	78	2640	0	001632	4			14	388								
201		085	0050	-0176	323	33P	260	3P														
		STD	0075	-0170	328	86	264	6	001574	0			14	396								
201		085	0075	-0170	328	158	264	6					14	396								
		STD	0100	-0156	331	1	2666	6	001379	0			14	411								
201		OBS	0100	-0156	331	14	266	6					14	411								
		STD	0125	-0102	333	88	268	6	001190	3			14	444								
		STD	0150	-0060	336	55	270	7	000999	2			14	471								
201		085	0150	-0060	330	8P	266	1 P														
		STD	0200	-0015	342	22	275	ī	000584	8			14	508								
201		085	0200	-0015	335	7P	2691	8P														
201		085	0235	-0006	346	43	2784	4					14	524								

REFE	ENCE					147.8		STA	TION T	IME		1	DRIGH	NATO	e*s	T	DEPTH	MAX		WA	VE		WEA-	CLC	UD			NODC	
C117	1D.	SHIP	LATTU	DE	LONGITUDE	SOU	ARE		IGMD		YEAR	CRU	ISE	STATI	DN	٦	TO IDTTDM	OF	01	2FK A1	TION	2	CODE		015			NUMBER	
8003	ND.			1/10	1/10 =	10*	1 "	MD	DAY	IR.1/10		1		NUM	AEK	-+-		2.WM	S DW	HGT	72.8	SEA		1176			-+		
31	1506		7916	ON	072480W	260	92	05	17 0	339 1	969	KB	2 03	39			237		1					ł	8			0039	Ļ
							WA	TER	L	WIND	BAR	5• L	AIR TE	EMP.	τ J		ND.	SPE	CIAL										
							COLOR	TRANS	DIR.	SPEED OR FORCE	M ETI (mbi	R	DRY RULR	8U	ET CO	oôe	DBS. DEPTHS	OBSER	ATIONS										
							1		28	504	22	0 -	068		8	3	07					_							
		MESSENG TIME	CAST NO.	CAR	D DEPTH (m)	T	τ	s	•1	SIGN	A-T	SPEC	OMALT-	UME 10 ⁷	ΣΔ DYN. χ 1	М.	SDI VELI	DAND DCITY	02 ml/	1 P	04-P 9 - 01/1		01AL-P 49 - 61/1	NO2 29 - 1	N 11/1	ND3-N 48 - el/l	SI D.4- Pg - 6	-Si pM	200
		NX 1/10			-	-	_		-	-				_			1												Т
		0.30	۱ د	080	0025	-0	178	32	644	262	29						14	381 '				·	,						
		0.5	,	5003	D 0030	-0	178	32	66	263	30	00	1728	32			14	382											
				ST	D 0050	-0	179	32	75	263	37	00	1659	94			14	386											
		03	9	OBS	0050	-0	179	32	747	263	37						14	386											
				ST	D 0075	-0	173	32	87	264	•7	00	1567	72			14	395											
		03	9	OBS	0075	-0	173	32	866	264	47						14	395											
				ST	D 0100	-0	164	33	05	266	51	00	01429	99			14	406											
		03	9	OBS	0100	-0	164	33	045	266	51						14	406											
				ST	D 0125	-0	103	33	06	266	50	00	1434	4/			14	439											
				ST	D 0150	-0	057	33	32	268	30	00	1253	38			14	400											
		03	9	OBS	0150	-0	057	- 33	318	268	30						14	408											
				ST	D 0200	-0	013	34	55	271	[]	00	0333	54			14	514											
		03	9	OBS	0200	-0	013	34	552	277	17						14	514											
		03	9	OBS	0235	-0	008																						

REFER	ENCE	SNIP	LATITU	DE	LONGITUDE	DCTR	4/ RS	ARE	STA	TION (GMT	TIME	YEAR	F	371118	RIGINA	TOR"	S N	0	DEPTH TD	DEPTH	c	W / BSERV	AVE /ATI	ONS	WEA	- CL	DUD DDES				
CODE	ND.	CODE	•	1/10	· 1/10	°≚	10*	1.	MO	DAY	NR.1/10		Ĩ	ND.	N	MBI	ER	80	MOTTOM	S'MPL'S	OR	HG	T PE	E SEA	CODI	TYP	AM	7		NUMBER	
31	1506		7916	0 N	072480W		260	92	05	17	122	196	9	KB2	040			0:	237								7			0040	
								WAT	TER	1.	WIND	BA	RO-	A	IR TEM	P. °C			ND.	SPEC	TAL										
								COLOR CODE	TRANS	DIR	FOR	CI ME	TER bu)	R	JLB	W E1 BUL	r coc R	De D	OBS. EPTHS	DBSERV	ATION	5									
										02	\$04	2	30	-05	50	_		0	07			1									_
		MESSENG TIME MR 1/10	CAST	CA TY	RD DEPTH	(m)	τ	۲	s	•⁄	510	SMA-T	5	ANOM	VOLUN	E	∑ ∆ C DYN. A X 10 ³	2.	SDU VELD	ND CITT	02 m	и ,	PO 4 19 -	-P	ΟΤΑL-! μg = α1/1	NO P8-	2−N ot/I	ND3-N µg - a1/1	51 O4- ug - ot	SI рН	5 C C
			-				1						-1-																	1	T
		12	z	OB.	s 002	5	-01	176	32	345	26	04	•						143	178 [']		- 1		'		•					
				S	10 003	0	-01	176	32	41	26	10		0019	9209				143	79											
				S	TD 005	0	-01	177	32	64	26	28		001	7452				143	86											
		12	2	OB	S 005	0	-01	177	32	636	26	28							143	86											
				S	TD 007	5	-01	171	32	81	26	642		0010	5145				143	95											
		12	2	OB	S 007	5	-0	171	32	805	26	42							143	195											
				S	TD 010	0	-0	156	33	04	26	60		0014	4350				144	10											
		12	2	OB.	S 010	0	-0	156	33	041	26	60							144	10											
				S	TD 012	5	-00	94	33	75	27	116		000	9103				144	53											
				S	TD 015	0	-00	050	34	25	27	/54		000	5499				144	84											
		12	2	0B	S 015	0	-00	050	34	245	27	154							144	84											
				S	TD 020	0	-00	015	34	59	27	80		000	3058				145	13											
		12	2	08	S 020	0	-00	015	34	587	27	80							145	13											
		12	2	0B	S 023	5	-00	009	34	652	27	785							145	23											

REFERENCE	SHIP	LATITU	DE	LDNGITUDE	DCTR	47 R SQU	DEN ARE	STA	TION TI	IME	YEAR	CRU	DRIGIN	IATOR STATI	rs DN		DEPTH TD	MAX. DEPTH	OBS	WAV ERVA	'É TIDNS	WEA	CLOU	ID £S		-		
CODE NO.	CODE	•	1/10	• '1/10	° ž	10"	11.	MD	DAY	R.1/10		N	p.	NUM	8ER	1	DTTDM	S'MPL"	S DR	HGT	PER SEA	CDDE	TYPE	AA T			NUMBER	
311506		7916	ON	072480W		260	92	05	17 1	198	1969	KB	2 04	1		lc	237							1			0041	
							WA	TER	V	VIND	RAR	- L	AIR TE	MP. 1	c	Ţ	ND.	107	CIAL									
							CDLDR CODE	TRANS Un7	DIR.	SPEED OR FORCE	M ETI (mbi	ER 1	DRY BULS	BU	ET CO	ŌE	OBS. DEPTHS	DESERV	ATIONS									
									03	S08	22	7	050		8		07											
	MESSENG TIME HR 1/11	T CAST	CAI	E DEPTH	(m.)	г	٦	s	•/	SIG	MA-1	SPSC ANI	IFIC VOLU	1 M.E	₹ △ DYN, X 10	Б. м.	SOL VELC	UND DOLTY	02 ml/l	РС 20	- 01/1	101A L-P pg • s1/1	NO2- µg - at	N /l	ND3-N vg - al/1	SI D4-5 µg - al/	рн	5 C C
										1																		Т
	. 19	9	OBS	5 002	5	-0	176	32	753	26	38						143	384										
			S	D 003	0	-0	176	32	75	26	37	00	1657	9			143	384										
			S	D 005	0	-0	177	32	75	26	37	00	1659	9			143	387										
	19	9	OB:	5 005	0	-0	177	32	747	26	37						14:	387										
			S	D 007	5	-0	171	32	87	26	47	00	1565	3			14:	396										
	19	9	OBS	5 007	5	-0	171	32	869	26	47						143	396										
	19	9	OBS	5 009	9	-0	153	33	098	26	65			-			144	412										
			S	010	U E	-0	151	33	12	20	67	00	11212	2			144	413										
	10	~	000	012	2	-0	102	30	120	21	15	00	10751	9			14.	440										
	19	9	003	5 014	9	-0	064	24	120	21	40	0.0	0616	5			1.4	470										
	10	0	0.81	E 015	ŏ	-0	015	34	502	27	47 91	00	0010	,			14	513										
	19	7	00:	019	á	_0	014	34	60	27	81	00	0296	4			14	514										
	19	9	0B	5 023	5	-0	008	34	651	27	85	50		•			14	523										

REFERENCE		LATITUDE	LON	GITUDE		2SDEN WARE	STATI	ON TIN	E	YEAR	CRUIS		ATOR'S	N	DEI T BDT	PTH ID TOM	MAX, DEPTH OF	OBS	WAVE ERVATIONS	WEA- THER CODE	CLOUD		5	NODC	
NO.	┞──┼	1/10		1/10	- 10'	1.	MOID	AY HR.	1/10		NU.		NUM88				S.Wbf.	Çik.	HGT PER SE	A	TYPE AM	r i			
311506	1	79160N	072	2480W	26	92	05 1	7 20	28	1969	KB2	04	2		02	37					1			0042	
						WA	TER	wi	ND	- BAR	o-	AIR TE	MP. °C	- vis	NO	0.	SPEC	IAL							
						COLOR	TRANS.	DIR.	OR	M ET Imb	ER s)	DRY BULB	BUL	COD	DEP	THS C	DASERV	TIONS							
							1 1	0.0	FORCE					-	1 2	-+-									
						1	41	031	505	22	1 -	160	<u> </u>	18	14	1			,						
	MESSENGE	CAST C	ARD .	DEPTH 6		тъ	5	·⁄	SIGA	AA-T	SPECIFI	c volu	ME	₹ ∆ D		SOUN	10	0 2 ml/1	PO4-P	TOTAL-P	NO2-N	ND3-N	5104-5	AH	S
	HR 1/10	NO. T	(PE					ļ			ANUA			X 10 ³		VELOC	2117		yg - 61/1	#Q = 01/1	µg ~ el/l	yg - at∕l	¥8 - 01∕:		C
	•	, í	TD	0010	· I	0178	327	2	26	35	001	685	4		11	143	80 '								
	208	OE	is	0010		0178	327	18	26	35						143	80								
	2-0	5	TD	0020	-	0178	327	7	26	39	001	647	6			143	82								
	208	OE	IS	0020		0178	327	66	26	39						143	82								
		5	TD	0030		0179	327	2	26	35	001	683	5			143	4∠								
	208	08	s	0030	-1	0179	327	18	26	35						143	82								
	208	08	S	0040	-	0179	327	15	26	34			-			143	84								
		5	TD	0050	-1	0176	327	1	26	34	001	686	2			143	87								
	208	OE	iS	0050	-	0176	327	13	26	34						143	87								
	208	OB	S	0060	-1	0176	327	22	26	35					:	143	89								
	208	08	S	0070	-	J1/4	328	20	204	+ 5 - 7						142	93								
	216	08	S	0071	-	1169	220	14	201	4 / 5 0	001	525	2			143	70 00								
	214	08		0075	_	2162	323	1 5 7	20.	50	001	,,,,	2			166	02								
	216	00	13 10	0080		1166	330	06	26	58						144	03								
	210	0	TD	0100	_	0141	331	1	26	55	001	390	0			144	18								
	216	OF	S	0100	-1	0141	331	05	266	55	•••		•			144	18								
	216	0 E	S	0110	- 1	0136	332	86	268	30						144	24								
	216	OE	S	0120		0109	335	04	26	97						144	41								
		S	TO	0125	-0	0106	336	5	270	8	000	984	1			144	46								
	216	08	S	0130		0102	337	92	27	20						144	50								
	224	OB	S	0131	- (0097	338	84	27;	27						144	54								
	224	OB	S	0140	-1	0082	340	32	27:	38			_			144	65								
		5	TO	0150	-1	0050	342	6	27	55	000	537	7			144	85								
	224	OB	S	0150		2050	342	61	27	לכ						144	82								
	224	OB	S	0160	-1	1028	344	14	210	5/						144	98								
	224	00	5	0170	-	021	244	10	27	71.						145	05								
	224		0	0180	_	024	345	01	27	74						145	06								
	264		5	0101		0026	345	15	27	75					:	145	06								
	243		το	0200		0023	345	3	27	76	000	341	9			145	09								
	243	0 P	s	0200	-1	023	345	34	27	76			-			145	09								
	243	OB	s	0210	-1	0022	345	39	27	77						145	11								
	243	08	s	0220		0016	345	58	27	78						145	16								
	243	OB	s	0230		8000	345	92	278	30						145	22								
	243	OB	S	0240		0100	346	11	271	82						145	23								

									_				_																
REFERE	NCE	SHIP			IDNCITUOT	5	47 25 5011		STA	TION 1	IME	YEAR		ORIGIN	i a to i	r*5		DEPTN	MAX. DEPTH	08	WAV	E	WE	A-	CLDUD			NODC	
CODE	ID. NO.	CODE	•	1/10	10001002	S S S	10*		110 1	DIVI	10.1/10	1048		ISE D.	STATI	DN RFR		BOTTOM	OF		luce a	10/103		DE -	TOD L.		N	UMBER	
-+-							10	++	mu		110,17.10		1				+		13 miles	- UK	1017	CH 303	`+	-+	tire am				
311	506		7916	ONI	0724801	4 I	260	921	05	<u>18 </u>	011	1969	IKE	32 04	3		<u>_</u>	2237	L	L			ļ	- 1	1	1	ł	0043	
								WA	TER		WIND	BAR	o- -	AIR TE	MP. *		ris.	ND.	SPE	CIAL									
								COLOR	TRAN!	DIR.	OR FORC	/ MET E (mb	ER 61	DRY BULB	BU	ET CO	206	DEPTHS	DBSERV	ATIONS									
										02	507	21	0	-059		8		07											
		MESSENG TIME MR 1/10	CAST	CAL	RD DEPTH	i (m.)	T	Ċ	5	•/	51G	MA-T	SPEC	OMALT-I	JME 10 ⁷	₹ Δ DYN,	м.	SOL	DOCITY	02 ml/l	PO 199-	4-P 01/1	TOTAL	. p 1	NO2-N 88 - at/1	NO3~N 49 - al/l	53 D-45i µg - ot/l	рМ	S C C
			Í T				-		-		-		1					1			1								T
		01	1 '	08	5 00;	25	-0	178	32	753	26	38						143	383 '		,								
				S	D 00	30	-0	178	32	76	26	38	00	1655	2			143	383										
				S	D 00	50	-0	179	32	76	26	38	00	1647	9			143	386										
		01	1	085	5 00	50	-0	179	32	762	26	38						143	386										
				S	LD 00.	75	-0	172	32	92	26	51	00)1529	8			143	396										
		01	1	083	5 00'	75	-0	172	32	915	26	51						143	396										
				51	rD 010	0(-0	160	33	10	26	65	00	1387	9			144	408										
		01	1	OB:	5 010	0	-0	160	33	101	26	65						144	408										
				S	rD 01	25	-0	108	33	79	27	20	00	00874	6			144	447										
				S	TD 01	50	-00	067	34	26	27	56	00	0530	1			144	+77										
		01	1	083	5 019	50	-00	067	34	261	27	56						144	477										
				S	TD 020	00	-0	022	34	56	27	78	00	0324	2			145	510										
		01	1	083	5 020	00	-0	022	34	558	27	78						145	510										
		01	1	083	5 02:	35	-0	010	34	636	27	84						14	522										

REFERE	NCE	C LA IR				1.5	447 RS	OEN	STA	TIDN	TIME			ORIGIN	ATDR	'S	0	EPTH	MAX. DEPTH		V OBSEI		E TIONS		WEA-	CLC				NOOC	
CTRT	10. NO.	CODE	LATITU	30	LONGITUDE	N N N	10"		MO	DAY	HR.1/10	TEAK	CRUISI NO.	S N	TATIC) N IER	80	NOT	OF S"MPL"	s D	IR H	GT	PERS	EA	CODE	TYPE	AM	1		NUMBER	
\vdash +				1210		-	10	-	0.5	1.0	0.2.0	10/0	~ ~ ~	04			0.7	27		1-		1					0			0044	
311	506	1 1	7916	ONI	072480		1260	1921 WA	U5 188	181	WIND	1963		AIR TEA	+ ΑΡ. Υ		102				''			1			•				
								COLOR	TRAN		SPEE	MET		ORY	WE	T COL		OBS.	OBSERV	CIAL /ATIO	INS										
								CODE	(m)	UIK	FOR	e (mb	0	BULB	BUL	.8	08	PINS													
										03	510	1 19	3 -0	82		8	0	7													
		MESSENG	CAST NO.	CA TY	RO DEPTH	(m)	1	τ		• • • • • •	sic	MA-T	SPECIFI	C VOLU	ME 07	₹ △ E DYN. A x 10 ³	р М.	SOU VELO		D 2	ml/I	PC VQ)4-P + 01/1	rc v)TAL-P g - o//I	NO2 Pg -	-N 01/1	NO3-N µg - o1/l	\$IO4— ⊮9 - ∎1	Si pH	
							-		+								1							1							T
		0.24			- I 003	5	-0	181	่วว	733	26	36	L		1			143	381					'							'
		0.5	9	5	TO 002	ó	-0	181	32	74	26	36	001	667	7			143	382												
				S	TD 005	0	-0	181	32	76	26	38	001	652	1			143	385												
		03	9	08	5 005	0	-0	181	32	756	26	38						143	385												
				S	TD 007	5	-0	170	32	92	26	51	001	524	8			143	397												
		03	9	0B	s 007	5	-0	170	32	922	26	51						143	397												
				S	TD 010	0	-0	155	33	13	26	67	001	370	1			144	+11												
		03	9	OB.	s 010	0	-0	155	33	126	26	67						144	411												
				S	TD 012	25	-0	111	33	15	2	(1/	000	1904	1			144	+42												
				S	TD 015	0	-0	075	34	19	2	/51	000	1579	3			144	+ / 2												
		03	9	oв	s 015	0	0	075	34	192	2	751			_			144	+ / 2												
				S	TD 020	0	-0	025	34	53	27	176	000	1340	9			143	800												
		03	9	08	s 020	0	-0	025	34	534	27	76						145	800												
		03	9	08	S 023	15	-0	015	34	603	27	81						14:	519												

REFERENCE	SHIP	LATITU	OE	LONGITUDE	DRIFT	47 8 SOU	ARE	STA	tion (GM	TIME D	YEAR		ORIGINA E ST	TOR'S ATION		DEPTH TO BOITOM	MAX. DEPTH OF	08	WA SERV.	VE A TION	IS	WEA- THER	CLO CO	U D DES				
COUR NO.			1/10	1/10	-	10*	1.	MO	OAY	HR.1/10		NO.		JMBER		10110	S.Wbr.	S OR	HGT	PER	SEA	1000	1121	AMI				
311506		7916	on I	072480W		260	92	05	18	121 WIND	1969	КВЗ	045	P. °C		0237		I						1		ļ	0045	
							COLOR	TRAN: tm1	r DI	SPEE OR FORC	D MET	R	DRY BULB	WET BULB	COD	OBS. DEPTHS	OBSERV	CIAL ATIONS										
									02	1 517	17	6 -0)40			07												
	MESSENGI TIME HR 1/10	CAST	CA TY	RD DEPTH	(m.)	1	٣		• • • • •	sic	MA-T	SPECIS	IC VOLUN	i No	∆ D YN. M X 10 ³	. SDI VELO	DAND	O2 m1/	P	104-P 9 - 01/		DTAL-P /g = ot/l	NO2-	-N 1/1	NO ₃ —N NO ₃ —N	51 O45 yg - al/	i pH	
																		-										Ť
	12	1	08	s 002	5	-0	175	32	756	26	38					14	384				-							-
		-	S	TO 003	0	-0	175	32	76	26	38	001	6557			14	385											
			S	TD 005	0	-0	177	32	75	26	38	001	6552			14	387											
	12	1	08:	s 005	0	-0	177	32	753	3 26	38					14	387											
			S	TD 007	5	-0	165	32	96	26	54	001	4953			14	400											
	12	1	08	s 007	5	-0	165	32	962	26	54					144	400											
			S	TD 010	0	-0	149	33	17	26	71	001	3356			144	415											
	12	1	08	s 010	0	-0	149	33	173	8 26	71					14	415											
			S	TD 012	5	-0	116	33	77	27	18	000	8871			144	443											
			S	TD 015	0	-0	085	34	20	27	52	000	15729			14	467											
	12	1	08	S 015	0	-0	085	34	195	5 27	52					144	467											
			S	TO 020	0	-0	031	34	55	27	78	000)3249			14	506											
	12	1	08	s 020	0	-0	031	34	551	. 27	78					14	506											
	12	1	OB:	5 023	5	-0	015	34	563	3 27	78					14	519											

REFER	ID. NO. NO.	SHIP CODE	7916	DE 1/10 O N	LONGITUDE 1/10 072480W	260	SOEN JARE 1" 92 WA COLOR COOE	2TATIO IG MO DA 0.5 1 F FER TRANS ((m) 0	N TIME WTI Y HR, 1/ L 17E WINE DIR FO 12 S2	YEAR 10 196 8/ EED RCE 10 10 10 10 10 10 10 10 10 10	R CI ARO- ETER mbs1	ORIGII RUISE NO. CB2 04 AIR TE DRY BULB -065		R'S ON BER ET LB 7	DEPTH TO BOTTOM 0237 NO. OBS. DEPTHS 07	MAX DEPTI OF S'MPL SP DBSER	H OBS	WA ERV/	VE TIONS PER SE	WEA- THER CODE		T	S	NODC JATION UMBER	
		MESSENGE TIME NR 1/10	CAST NO.	CAR	E DEPTH (m	4 1	r	5 */	. !	IGMA-T	1	PECIFIC VOL ANOMALY-3	UME 107	₹∆0 DYN. M X 10 ³	SO VEL	UND OCITI	02 m1/l	Pi V 9	04-9 - 01/1	101AL-7 µg • c1/1	NO2-N vg - at/1	NO3-N µg - at/i	SIO4Si μg - αt/i	PN	500
		i .				1			1																1
		178	3	083	5 0025	-0	180	3275	0 2	637					14	382									
				S	rd 0030	-0	180	3275	i a	637	C	01658	30		14	383									
				\$	rD 0050	-0	178	3276	2	638	C	001652	27		14	387									
		178	3	085	5 0050	-0	178	3275	6 2	638					14	387									
				51	0075	-0	168	3296	2	654	C	001500	00		14	398									
		178	3	085	5 0075	-0	168	3295	5 2	654					14	398									
				5	0100	-0	148	3317	2	671	C	001335	2		14	415									
		178	\$	083	5 0100	~0	148	3317	4 2	671					14	415									
				5	0 0125	-0	111	3375	2	717	0	00904	+1		14	445									
		170		2	0150	-0	080	3416	· ·	149	U	000600	2		14	469									
		176	5	003	5 0150	-0	030	2410		149					14	409									
		179	2	080	- 0200	-0	036	3441	4	772	U,	100203			14	502									
		179	2	080	5 0200	-0	0 20	2441	2 2	112					14	502									
		110	,	00.	, 0237	-0	020	5425	~ ~	118					14	210									

REFERE	VCE	e 121 III		1		- =	10.15	DEN	STATION	TIME			ORIGIN	ATO	r*s	OEPTH	MAX		WAV	E	WEA	CLOUD	T		1000	
C789 CODE	10. NO.	CODE	LATITU	1/10	LONGITUOE	NO N	10.	1°	IGMT MO OAY	HR.1/10	YEAR	CRUIS NO,	E 5	TATI NUM	ON Ber	TO BOTTON	OF S'MPL	S OIR	HGT	TIONS	CODE	11PE AM	1	S' N	UMBER	
311	506		7916	ON	072480W		260	92 WAT COLOR CODE	ER TRANS. DIR.	199 WIND SPEE	1969 BAR MET	LK B 2 0- ER =1	DRY BULB	7 wp. 1 w		0237 NO. OBS. DEPTHS	SPE					0			0047	
									03	S15	15	6 - ()76_		7	07										_
		MESSENGI TIME HR 1/10	CAST NO.	C AS TY	ю е оертн	im I	Ţ	۲	s •%.	SIG	MA-T	SPECIF	IC VOLU	ме 07	₹ △ 0 DYN. W X 10 ³	SO VEL	OCITY	02 ml/1	20 24	- 01/1	4-JATOT Nio - 24	NO2-N 48 - 81/1	NO3N V9 - 01/1	\$1 D ₄ 5i yg - 61/1	pН	5000
						_																				T
		199	9	OB:	5 002	5	-01	181	32753	26	38					14	381									
				S	003	0	-01	181	3275	26	38	00	656	2		14	382									
		199	9	08	5 004	9	-01	181	32754	26	38			2		14	385									
		10		- 5	FD 005		-01	181	3276	20	50	00	049	2		14	307									
		199	9	00	5 007	+ 5	_01	168	32919	26	52	0.0	519	1		14	398									
		100	2	08	5 009	9	-01	154	33159	26	70	00		•		14	412									
		1 /	,	S	010	Ś	-01	152	3319	26	72	00	321	8		14	414									
				S	TD 012	5	-01	111	3378	27	19	000	1880	2		14	445									
		199	9	08	5 014	8	-00	083	34158	27	48					14	467									
				S	TD 015	0	-00	082	3417	27	49	000	1593	2		14	468									
		19	9	08	5 019	в	-00	054	34386	27	66					14	492									
				S	TD 020	0	-00	252	3440	27	67	000	1429	6		14	494 514									
		199	9	UB:	5 023	2	-00	119	34550	21	11					14	910									

REFE	RENCE	SHIP			100000000	E 5	14. 15	SDEN	STA1	ION	TIME			ORIGIN	ATOR	1°S	_	OEPTH	DEPTH		WA	VE		WEA-	CLOU	0		1	NOOC	
CODE	IO. NO.	CODE	·	1/10	1/10	NO N	10*	TIT	MOI	TAD	HR.1/10	TEAK	CRUISI NO,	E S	ITATI NUMI	DN BER		01 801108	OF S"MPL"	S OUL	THGT	TPERT	SEA	CODE		E S		1	NUMBER	
31	1506		7916	ON	072480W		260	92 WA		19	041 WIND	1969	кв2	Q4	8. MP. 1	c		0237								3		1	0048	1
								COLOR	2 M AJIT (m)	OIR.	SPEED OR FORC	e (mb	ER 6)	ORY BULB	WI BU	LB C	415, 0 DE	OBS. DEPTHS	OBSERV	CIAL ATIONS										
										03	\$40					5	5	07												
		MESSENG TIME HR 1/1	CAST NO.	CAS	D OEPTH (m)	Т	٦	s	٠/	SIG	MA-T	SPECIFI	C VOLU	M E 07	₹ △ dyn. x 1	0 M.	SOL VELC	DOCITY	0 2 m l/l	I P P	04-P 9 - 01/	i ا بر ا	DTAL→P g = ot/l	NO2-1 29 - al/	I NO	- ot/1	51 O 4 10 - 64	51 pH	S C C
																							Т							
		. 04	0	089	5 0025	5	-0	181	32	762	26	38						143	381		,									
			•	S	TD 0030)	-0	181	32	76	26	38	001	649	3			143	382											
				S1	TD 0050)	-0	179	32	76	26	38	001	648	7			14:	386											
		04	0	OBS	5 0050)	-0	179	32	761	26	38						14	386											
				SI	rD 0075	5	-0	167	32	94	26	52	001	513	2			14	399											
		04	0	08	5 0079	5	-0	167	329	9 38	26	52						14	399											
				ST	TD 0100)	-0	154	33	11	26	66	001	385	7			144	411											
		04	0	OBS	5 0100)	-0	154	33	106	26	66						144	411											
				S1	TD 0125	5	-0	117	33	57	27	10	000	1963	3			144	441											
				S1	D 0150)	-00	085	34	10	27	44	000	642	4			144	466											
		04	0	083	5 0150)	-00	085	34	104	27	44						144	466											
				S1	FD 0200)	-00	034	34	55	27	78	000	321	2			14	504											
		04	0	085	5 0200)	-00	034	34	554	27	78						14	504											
		04	0	083	5 0239	5	-00	024	34	47P	27	71P																		
[are			1	,																										_

ALT	RENCE	SHIP 1				E MAI	SDEN	STA	TION	TIME			ORIGINA	TOR'S		OEPTH	0.00		WA	VE	ł	WEA-	CLO	UD		1	NOOC	
CTRY	10. NO.	CODE	LATITU	DE	LONGITUOE	20 SQ	JARE		IGMT	1	YEAR	CRUIS	E ST	ATION		TO BOTTON	OF	OBS	SERVA	TIONS		THER	COO	DES		2	TATION	
				1/10	1/10	10*	11	MO	DAY	HR.1/10				IWAFK			S. Whore	DUL.	HGT	PER S	EA.		TYPE .	AMI				
31	1506		7916	ON	072480W	260	92	05	19	125	1969	KB2	049			0237								8			0049	
							WA	TER		WIND	BAR	0-	AIR TEM	P. °C		NO.	C D T /											
							COLOR	IRANS (m)	OR	- DA FORC	D MET	ER 6)	ORY BULB	W ET BULB	COD	ORS. DEPTHS	OBSERV	ATIONS										
									34	510) 09	1 -0	70		6	07												
		MESSENG TIME HR 1/10	CAST	CAP	TO DEPTH (m)	J 1	s	•/	sic	MA-T	SPECIFI	C VOLUM	۲ ×	∆ 0 (N. M (10 ³	SO VEL	UND OCITY	0 2 ml/l	Pi Pi	04P + 01/1	to P1	9 - 01/1	NO2- 19 - al	-N 1/1	NO3~N µg - a1/1	51 O.4 ~ 51 49 = at/1	рН	S C C
																					1						1	T
		12	4	083	5 0025	-0	181	32	769	26	39					14	381											
				ST	FD 0030	-0	180	32	77	26	39	001	6433			14	383											
				S1	D 0050	-0	177	32	82	26	43	001	6030			14	388											
		12	4	OBS	5 0050	-0	177	32	821	26	43					14	388											
				51	FD 0075	- C	170	32	93	26	52	001	5172			14	397											
		12	4	OB	5 0075	-C	170	32	932	26	52					14	397											
				S	D 0100	- C	158	33	04	26	61	001	4329			14	409											
		12	4	OB:	5 0100	-0	158	33	043	26	61					14	409											
				S	TD 0125	-0	120	33	62	27	06	001	0005			14	439											
				S	D 0150	- C	085	34	06	27	41	000	6760			14	465											
		12	4	OB:	5 0150	- C	085	34	060	27	41					14	465											
				S1	rD 0200	-0	027	34	52	27	75	000	3528			14	507											
		12	4	OB	5 0200	- C	027	34	517	27	75					14	507											
		12	4	0B3	5 0235	-0	016	34	589	27	80					14	519											

REFE	RENCE	CE SHIP O. CODE					MAR	SDEN	STA	TION	TIME	VEAN		DRIGINA	TOR'S		OEPTN	DEPTH	0	W/ ISERV	AVE /ATK	INS	WEA-		00			NOOC	l.
CODE	IO. NO.	CODE	•	1/19	LONGI	1/10	10"	T 12	MO	OAY	, HR,1/10		CRUISE NO.	ST.	A TION		BOTTON	A S'MPL	S DR.	HG	T PER	SEA	COOL	TYPE	A #1			NUMBER	
			7016	0.11	0774	2014	240	0.2	0.5	10	160	1969	KB2	050			0237								2			0050	
. 21	1200	, ,	1910	UN	0124	00.01	1200		TER	Î	WINO			IR TEM	P. °C	Т	INO.	1		1									
								COLOR	TRAN (m)	L OR	SPEE OR FDE	D MET	ER 1	DRY ULR	WE1 BULR	COD	ORS. DEPTHS	OBSER	A TION S										
									1	02	S1	5 O B	5 -0	80		6	07												
		MESSENG TIME HB 1/10	CAST NO.	CA TY	RD PE	DEPTH (m)	1	τ		•4.	sie	GMA-T	SPECIFIC	VOLUM	, 1 ,	E Δ Δ DYN. W X 10 ³	A. SO VEL	OCITY	02 ml/	1	PO4- 19 - 1	- P 1	/0TAL-P pg - al/l	NO2-	~N 21/1	NO3−N ¥8 - at⁄i	SI O4-	-Si pH st/1	500
									T																- 1				
		16	o	' ов	s	0025	-0	179	32	779	21	540					14	382											
				S	TD	0030	-0	17B	32	78	20	540	001	6360			14	384											
				S	TD	0050	-0	175	- 32	82	20	543	001	6065			14	389											
		16	0	0 B	s	0050	-0	175	32	817	20	543		_			14	389											
				S	TD	0075	-0	170	32	93	20	551	001	5225			14	397											
		16	0	OB	s	0075	-0	170	32	925	2	551					14	397											
				S	TD	0100	-0	157	33	07	20	563	001	4133			14	409											
		16	0	OB	s	0100	-0	157	33	069	20	563					14	409											
				S	TD	0125	-0	122	33	61	2.	706	001	0075			14	438											
				S	TD	0150	-0	089	- 34	02	2	138	000	7026			14	463											
		16	0	08	s	0150	-0	089	34	023	2	738					14	463											
			-	s	TO	0200	-0	028	34	50	2	774	000	3653	ł.		14	506											
		16	0	08	s	0200	-0	028	34	500	2	774					14	506											
		16	Ó	0B	ŝ	0235	-0	017	34	589	2	780					14	518											

L	REFEREN	SHI	•	1.4.111.11	05	LONGITUDE	1		SOEN	517	IGM	TIME D	YEAR	L	ORIGIN	ATOR"	s	OEP	MIN	DEPTH				NS	WD		CODES	1		NOOC	
c	DDE N	b. coc	E		1/19	1/	10 23	10*	Tr	мо	OAY	 HR_1/10		CRUIS NO,	E	STATIO NU MBI	n Er	8011	IOM .	OF S'MPL'S	DR	Inc	T PER	SEA	- coo	E TY	PE AMI	{		NUMRER	
ſ	3115	0.6		7916	ON	072480	ut-	260	92	05	19	205	1969	кв:	05	1		02:	37		1						1			0051	
		••			••••				WA N	TER	1	WINO	PAR		AIR TE	MP. C	1	INC	5. T			٦ [:]									
									COLOR	TRAN tml	s 01	L OR FDR	D MET	ER 1	DRY BULS	WE1 BUL	COD	DEP	IS. THS	ORSERV	ATION	s									
											30	5 530	07	8 - (90		6	0	7												
		MESSI TU HR	ENGR 48 q 1/10	CAST NO.	CA TY	RO DEPT	N (m.)	,	т Т		s •/.,	510	GMA-T	SPECIF	- IC VOLU WALY-JI	IME 107	₹ Δ 0 0yn. a 10 ³	A. ,	SOUN VELD (DA CETY	0 2 m	л	PO 4	.₽ 1∕1	101AL- 99 - 61/	P NC	02-N • al/l	NO3-N µg - al/l	5104- 98 - 01	Si pM	500
										Τ																Τ					Τ
		ä	205		0B	s 00	25	-0	179	- 37	2746	5 26	537					1	143	82											
					s	TD 00	30	-0	178	32	275	20	537	003	662	0		1	143	83											
					S	TD 00	50	-0	176	32	275	20	537	00	1660	1		1	143	88											
		2	205		OB	S 00	50	-0	176	- 32	274	1 20	537					1	143	88											
					S	TD 00	75	-0	168	- 37	290	20	549	00	1543	0			143	98											
		2	205		OB.	s 00	75	-0	168	37	289	9 20	549						143	98											
		2	205		OB.	S 00	99	-0	154	33	3041	3 20	561					:	144	10											
					s	TO 01	00	-0	152	- 33	307	20	563	00	1413	В			144	12											
					S	TD 01	25	-0	115	33	353	20	599	00	1071	0		3	144	40											
		2	205		OB	S 01	49	-0	085	33	3892	2 2	727						144	63											
					S	TD 01	50	-0	084	33	391	2	728	000)790	9		:	144	64											
		2	205		OB	S 01	99	-0	045	34	40	5 2	767					1	144	97											
					S	TD 02	00	-0	044	34	41	2	767	000)425	8		1	144	98											
			205		OB.	S 02	34	-0	016	34	1551	3 21	778					1	145	18											

REFERENCE CTHY IO, CODE NO. 311506	SNIF	LATTUDE 1/1 79160N	072	GITUOE 1/19	260	SDEN ARE 1° 92 WA COLOR CDDE	STAT D MO O 5 Z TER TRANS Im1	ON TI GMTI DAY NI O Q OR O R	ME R.1/10 43 100 501 501 530	TEAR 8ARC METE (mba 10		ORIGIN 2 05 AIR TEA DRY BULR 112	ATOR STATIC NUMR 2 MP. C BUL		DEPTH TO ROTTOM 0237 NO. OBS. DEPTNS 07	MAX DEPTH OF S'MPL S'MPL	CIAL	WAVE SERVATIONS	EA COD	CLOUC CODE	T	S	NODC TATION IUMRER	
	MESSENGE TIME NR 1/30	CAST C	ARD TYPE	DEPTH (m)	1	τ	s	•4.	SIGN	NA-T	AND	IC VOLU MALT-31	ME 87	∑ ∆ 0 07N. # x 10 ³	SOL VELO	ONC YTSOC	0 2 ml/3	PO4-P 99 - 01/1	TDTAL-I pg-ol/l	NO2-N 98 - ot/1	NO3-N 88 - 01/1	SID₄-Si µg - et/1	pΝ	500
	043		 BS STD STD PC	0025 0030 0050	 -0 -0	181 181 179	327 327 327	76	263 263 263	39 38 36	00	1650 1671	8 0		14 14 14	382 382 386		1						T
	043	0	STD BS	0075	-0 -0	179 172 172	328	3 3 34	264	44 44	00	1592	0		14 14 14	386 395 395								
	043	0	STD BS STD STD	0100 0100 0125 0150	-0 -0 -0	152 152 111 079	330 330 336 341	19 187 19	266 266 271	54 54 12	00:	0950	8 0 7		144	412 412 444								
	043	0	BS STD BS	0150 0200 0200	-0 -0 -0	079 040 040	341 344 344	16	274 276 276	5 59 59	000	0404 [,]	9		14	469 500 500								
	043		03	V2 35	-0	025	545	25	217	6					149	514								

REFERENCE	SHIP	LATITU				SDEN JARE	STAT	ION T GMTI	IME	YEAR	CRUISI NO.		ATOR'S	1	DEPTH TO BOTTOA	DEPTI OF S*MPI	085	WAVE ERVATION	5 TH CO	A- C ER (DE DE			-	NODC STATION NUMBER	
31150	6	7916	ON OT	72480W	260	92	05	20 0	065	1969	ква	05	3		0237					1	X 9			0053	
						COLOR	TER TRANS	V V	SPEED	BAR	0	AIR TE	WP. C		ND. OBS.	SP									
						CODE	1m)	DIR	FORCE	imbe	0 I	BUL9	BULB		DEPTHS	00100									
		T 1		1			l	36	S20	10	5 -1	32	Į	6	07	1		T							
	MESSENG TIME HR 1/10	CAST NO,	C ARO TYPE	DEPTH (m)		ъ.	\$	•⁄	SIGN	A-T	SPECIFI	C VOLU	ME 1	E Δ D N N. M X 10 ³	. SO	OCITY	02 m1/l	PO4=P µg = 01/I	101AL 98 - 01	- P NO	02-N - 01/I	NO ₃ -N µg ~ at/l	SID-4- уд-а	Si pH	s C C
			0.0.5	0005					1							201			1					1	ļ
	06	5	STO	0025	-0	180	327	13	26:	90 36	001	674	8		14	382									
			STD	0050	-0	179	32	3	263	36	001	671	7		14	386									
	06	5	OBS	0050	-0	179	327	31	263	36					14	386									
		_	STD	0075	-0	170	328	16	264	+6	001	570	9		14	396									
	06	5	OBS	0075	-0	170	328	36Z	264	+6	0.01		~		14	396									
	06	5	085	0100	-0	151	330)74	266	3	001	411	0		14	412									
			STD	0125	-0	113	336	7	271	0	000	964	6		14	443									
			STD	0150	-0	080	341	0	274	+4	000	644	4		14	468									
	06	5	OBS	0150	-0	080	341	.04	274	+4			_		14	468									
	0.64	-	SIU	0200	-0	033	344	6	271	1	000	393	2		14	503									
	06	5	OBS	0235	-0	027	345	09	277	4					14	513									
		-		- 2 3 -					- · ·																
	r				T				- 1							LAAAY			-	1		_	1		
CTRT 10.	SHIP	LATITUS	DE LOI		SOU	ARE	STATI ((ON TI SMTI	ME	YEAR	1211180	SKIGIN			DEPTH TO	DEPTH	0850	wave ervations	· WE THI	4- C R C	CODES			NDDC STATION	
CODE NO.	CODE	•	1/10	1/10	10*	1.	MO D	AY H	2,1/10		NO.	N	UMBER		BOTTOM	S'MPL"	DBR	H GT PER S	EA COI	141	PE AMT			NUMBER	
311506	, I	79160	DN 107	2480W	260	92	05 2	0 1	45 1	969	KB2	054	4		0237						2			0054	
						WAI	ER	w	IND	SARC		AIR TEA	A₽. ℃	217	NO.	SPE	CIAL								
						COLOR	TRANS.	DIR,	OR	imba	R () 8	ULB	W ET BULB	CODE	DEPTHS	0852RV	A TION S								
					i			02	515	122	2 -1	10		6	07										
	MESSENGR	CAST NO.	C ARD TYPE	DEPTH (m)	T	r	s	•/	SIGM	A-T	SPECIFIC	VOLU/	ME D	A D YN, M	SOL VELO		02 m1/l	PO4-P #9 = 01/1	TOTAL-		02-N - at/1	NO3-N #g - ot/1	SI O.4	Si pH	500
	HR 1/10				-		-						+					+		+	-+			-	H
	1		0.8.6	0035	-0	140	227	22	1	4			1		14	297		1	1	I		1		1	11
	143	•	STD	0020	-0	107	327	3	263	6	001	6721	3		14	386									
			STD	0050	-0	175	327	4	263	6	001	668	7		14	388									
	145	ò	085	0050	-0	175	327	36	263	6					14	388									
			STD	0075	-0	169	328	2	264	3	001	6001	3		14	396									
	145	•	UBS	0075	-0	169	328	24	264	5	001	200	,		14	390 419									
	144		085	0100	-0	148	ورو	2	200	-	001	2001	<u> </u>		14	410									
	1.4.		STD	0125	-0	109	337	7	271	8	000	8896	5		14	446									
			STD	0150	-0	770	340	9	274	3	000	6556	5		14	470									
	145	\$	OBS	0150	→0	077	340	91	274	3					14	470									
	1		STD	0200	-0	034	344	4	276	9	000	4109	9		14	503									
	145			0200	-0	034	344	36 5.8	276	9					14	5U3 510									
	7.45	,	~US	0200	-0	~ 1 ~	242	20	~ ' '	9					× 4.										

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

REFERENCE	SHIP	LATITUGE	1.01	GITUOE	NAR SOU	SOEN ARE	STATI	ON TI	ME	YEAR	CRUISE	ORIGIN	ATOR"	s N	DEP		MAX. DEPTH OF	085	₩A Serv	ATIONS	WEA- THER	CLOUD			NOOC STATION NUMBER	
CODE NO.	0000	· <u>1</u>	/10	1/10	10*	1.	MO D	AY H	R,1/10		NO.	×	UMBE	R	-	5.	"MPL"S	DIR	HG	T PER SE	A 0000	TYPE AM	۰ ۱	\rightarrow		$\left\{ \right.$
311529	9 15	76142	N 06	2593W	259	62	08 1	4 1	.61	1969	WGS	00	1		041	13	1	00	0	X	X1	4 6			0001	
						WAT	ER	W	IND		0-	AIR TEA	49. °C	- vis	NC	o.	SPEC									
						COLOR	TRANS.	DIR.	SPEED	MET	ER	ORY	WET	coo	OE P1	THS O	BSERV	A TION S								
						CODE	101	_	FORC	E Emb			500	-	+											
								05	S07	17	8 0	61	05	9 7	14	4										_
	MESSENGR	CAST	CARD			-		.,			SPECIFI	ς νοιυ	ME	∑ ∆ D		SOUN		014		PO4-P	TO TAL-P	NO2-N	N03-N	SI O 4-	-si	S
	TIME	Y NO.	TYPE	DEPTH Im	3 6	C	1,	•••	SIG	MA-1	ANDA	ALT-XI	°'	x 10 ³	^· `	VELOC	איזנ:	02 1071		0 + 01/1	µg - a1/i	µg - at∕l	µg - et/l	у 9 - 9 ч	M .	č
	HR 1/10	+							+		<u>+</u>				+			_	+-							
							1		1				. !		<u> </u>			0.03					I		ł	
			STD	0000	0	023	124	2	09	97	017	483	5	0000		141	97	685								
	161	L (OBS	0000	0	023	124	22	09	97						141	91 , c ·	082	<u>`</u>							
	161	L (OBS	0005	0	006	312	92	25	14		~ · -	~			1444	47 .	10520								
			STD	0010	-0	105	324	0	26	07	001	947	2	0091	r _	144.	10	1014								
	161	L (OBS	0010	-0	105	324	00	26	07						144.	10.	7.0								
			STD	0020	-0	129	328	7	26	46	001	579	1	0115		1440		790								
	161	L I	OBS	0021	-0	130	329	00	26	48						1440		114								
			STD	0030	-0	123	329	9	26	55	001	488	0	0130) 1	144	13	687								
	161	L I	OBS	0031	-0	122	330	03	26	56					. 1	144	14	680								
			STD	0050	-0	075	332	1	26	72	001	333	8	0158	5 .	1444	42	634								
	161	L	OBS	0051	-0	072	332	24	26	73						1444	43	632								
			STD	0075	-0	009	334	1	26	85	001	207	4	0190		144	19	579								
	163	3	OBS	0077	-0	006	334	25	26	86					1	1448	81	577								
			STD	0100	-0	006	335	7	26	98	001	086	2	0219	9 1	1448	87	582								
	163	3	OBS	0102	-0	006	335	77	26	98						1441	87	582								
			STD	0125	0	014	336	8	27	06	001	011	8	0249	5	145	02	566								
	163	3	OBS	10126	0	015	336	86	27	06				_		145	02	565								
			STD	0150	0	040	337	7	27	11	000	957	1	0270) :)	145	19	581								
	163	3	OBS	0152	0	042	337	75	27	12						145	20	582								
			STD	0200	0	066	336	8	27	19	000	886	3	0316	5	1454	41	559								
	163	3	OBS	T0200	0	066	338	83	27	19						145	41	559								
			STD	0250	0	086	339	9	27	26	000	819	6	0358	3	145	59	540								
	16:	3	08S	T0251	0	087	339	90	27	26						145	60	540								
			STD	0300	0	165	342	25	27	42	000	678	8	0396	5	146	06	524								
	163	3	OBS	0302	0	167	342	63	27	43						146	08	523								
			STD	0400	0	161																				
	16	3	OBS	T0401	0	160																				

REFE	RENCE	1112					E E	MARS	DEN	STAT	ION TI	ME			ORIGIN	ATOR [®] S		D	EPTH	MAX.	0.00	WA	VE	WEA	- CL	OUD			NODC	
CTRY	ID.	C001	LATITUI	30	LONG	TUOE	NON O	\$00.	ARE		GMI		YEAR	CRUISE	5	TATION		801	TTOM	OF	085	EXV/		COD		ODES			NUMBER	
	NO.			1/10		1/10	-	10*	1.	MOL	DAY H	R.1/10		NO.	· · ·	DIVIDEN		-		S MPL:	Dik.	HGG	768 36	<u>^ </u>	1172	-				
31	1529	15	7605	ON	0631	100W		259,	63	08 2	4 2	24	1969	WGS	00	2		04	+65	2	00	0	X	X 3	6	18	1		0002	1
									WAT	ER	W	INO	BAR	o∙	AIR TE	мр. °С	~ VI5.		NO.	SPE	CIAL									
									CODE	18.4 N S. (m)	DIR.	SPEED DR FORCE	Imb	R 1	ORY	WET BULB	COD	E OE	EPTHS	OBSERV	ATIONS									
											00	SO 0	15	6 0	33	017	7	1	14					_						_
		MESSENGI TIME HR 1/30	NO.	C A TY	RO PE	OEPTH I	im)	T	٣	5	•/	SIG	1-AN	SPECIFI	C VOLU	ME 07	E Δ 0 DYN. M X 10 ³	Å.	SON AFLO	NO	02 ml/i	P IV	04-P 9 - 01/1	TOTAL	NO 99	2=N 01/1	NO3-N 99 - 01/1	51 O	Si pH	S C C
			1									1)		I	
				s	TD	0000	0	0.	213	204	+2	16	36	011	264	2 0	1000)	143	392	848									
		22	4	oв	s	0000	0	0	213	204	421	16	36						143	392	848									
		22	4	0B	s	000	5	0	040	314	488	25	28						144	463	1195									
				S	TO	0010	0	-0	040	329	51	26	13	001	888	3 (0066	2	144	441	930									
		22	4	OB	S	0010	0	-0	040	32	505	26	13	0.01	676		002	,	144	441 527	930									
			,	S	10	0020	0	-0	093	220	37	20	40	001	. 575	9 0	1003	,	144	+ <u>2</u> +	810									
		22	4	VB	5	0020	5	-0	095	220	2000	20	40 66	0.01	1.00	6 0	000	,	1.47	124	764									
				5	10	0030	2	-0	101	221	20	20	77	001	222	4 0	177	,	14	120	676									
			,	 	10	0050	1	-0	101	22.	20	20	72	001	552	0 0	1121		144	430	671									
		22	4	00	5	005	-	-0	101	22	C 1 4	20	15	001	104		160	, ,	1	.67	674									
			,	S	10	007	2	-0	051	22	+1	20	87	001	100	0 (1 90	,	144	+ J (1.58	623									
		22	4	0B	5	0070	0	-0	0.55	221	+1 <i>5</i>	20	87	0.01	077		104		144	490	509									
		22			10	0100	1	-0	019	22	501	20	99	001	.072	4 (100	,	144	401	508									
		62	4	00	3 70	012	5	-0	014	23	58	20	77 06	001	011	8 0	1212	,	149	502	591									
				 	TO	0150	ń	ň	014	33	77	27	12	001	956	0 0	237	,	14	518	567									
		22		08	c 1		2	ő	040	23	775	27	12	•••					149	519	566									
		~ ~ ~	•	ç	TO	0200	ĥ	ŏ	0.50	330	ຈຳ໌	27	22	000	861	6 0	282	,	149	538	549									
		22	4	08	۲	T020	3	ŏ	061	330	923	27	23					•	149	539	548									
			-	č	TD	0250	ñ	Ő	800	34	04	27	30	000	788	2 0	324		145	565	541									
		22	4	OB	< .	1025	à	ō	100	341	045	27	30			-	_		145	567	541									
			-	Š	τD	030	õ	ŏ	136	34	16	27	37	000	725	7 0	362	2	149	592	538									
		22	4	08	s ·	TO 30	õ	ō	136	34	159	27	37						149	592	538									
		22	4	0B	š	035	3	ŏ	174	34	263	27	42						146	619	528									
			•	Ś	τD	040	0	ő	167	34	36	27	51	000	000	8 ()428	3	146	625	510									
		22	4	OB	S	044	7	ŏ	156	34	411	27	56	2.4.			-		146	629	498									
		22	4	OB	s	045	7	ō	153	34	414	27	56						146	629	496									

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REFERENCE	SHIP CDDE	LATITU	DE	LONGITUDE	DBIFT INDC 19	M A R		STATE		IME	YEAR	CRUISE NO.	DRIGIN	ATOR'S		DEPTH TO BDTTO			BSER		WEA- THER CODE	CLOUE			NODC STATION MUMBER	
												1.000	00	2	- 1	0.2.0	-				×.	E	-	-	0003	
311529	15 1	7553	6N	060195W	r I	259	1501 WA		24	VIND	1903	1862	AIR TE/	1 NP. C	¹	0.39	<u>-</u>	0	<u>۲</u> ۳		1 20	,), 9		ţ	0005	
							COLOR	TRANS	D 10	SPEED	MET		DRY	WET		OBS.	OBSE	PECIAL	<							
							CDDE	lm I	UIK.	FORC	E (mb	#1 B	ULB	8018		DEPTH	S									
									00	500	14	3 0	44	039	1	14										
	HESSENGE	1		-		1		1		T									1							T
	TIME	V NO.	TYP	E DEPTH	(m)	1	°C	5	·/	\$1G	M AT	ANON	ALY-X1	07 D	YN. M	· VE	LOCITY	0 2 ml	и	yg - ol/l	Pg • of/I	yg - ot/l	va · at/l	yg - 01/	т рН	
	HR 1/10							+						_	1 10-	-		-	-							+
		.						ł		1								1					1		1	l
			- 51	.D 000	0	0	512	166	5	13	21	014	318	1 0	000	14	4475	801	L							
	183	3	085	000	0	0	512	166	53	13	21					14	4475	801	1							
			S1	D 001	0	0	139	324	9	26	02	001	992	8 0	082	14	4523	1094	2							
	183	3	085	6 001	0	0	139	324	85	26	02					14	4523	1094	2							
			51	D 002	0	-0	063	329	1	26	47	001	567	/ 0	099	14	44 38	955	*							
	183	3	OR S	5 002	0	-0	1003	329	12	20	547 E 0	0.01	4 E 1	<u> </u>	114	1	4430	70	2							
			- 51	003	0	-0	123	330	4	20	59	001	491	9 0	114	1	4413	609	2							
	101	•	003	005	0	-0	127	232	5	26	75	001	207	5 0	142	- î.	4435	628	Â							
	18:	2	080	005	ĭ	-0	0.89	332	57	26	76	001	271	· ·	-72	ī	4436	625	5							
	10.	,	500. 51	007	5	-0	030	334	6	26	90	001	155	8 0	173	1	4466	50	1							
	18:	2	089	\$ 007	6	-0	038	334	68	26	91	001				ī	4467	589	9							
	10.	,	51	D 010	õ	-0	019	335	6	26	98	001	087	60	201	14	4481	513	3							
	183	3	085	010	1	-0	018	335	64	26	98					14	4481	512	2							
		•	51	D 012	5	0	011	336	5	27	03	001	033	1 0	227	14	4500	551	1							
	183	3	085	6 012	6	0	012	336	59	27	04					14	4501	552	2							
			51	D 015	0	0	027	337	7	27	12	000	949	90	252	14	4513	537	7							
	183	3	085	5 TO15	2	0	028	337	82	27	13					14	4514	536	5							
			S1	D 020	0	0	061	339	5	27	24	000	835	50	297	1	4539	523	3							
	183	3	085	5 TO20	1	0	062	339	49	27	25					14	4540	52	3							
			51	D 025	0	0	088	340	5	27	31	000	774	0 0	337	14	4561	514	Z							
	183	3	085	5 TO25	1	0	089	340	51	27	31					14	4562	512	2							
			51	D 030	0	0	144	341	9	27	39	000	708	2 0	374	14	4596	52								
	183	3	085	T030	1	0	145	341	95	27	39					14	4591	52	1							
	18:	3	085	5 T036	6	0	178	343	29	27	4/					14	4624	505	y							
	183	3	085	5 1037	6	0	182	343	73	27	51					14	4628	506	5							

REFERENCE CTRY ID. CODE ND.	SHIP CDDE	LATITU	DE 1/10	LONGITUDE	NAL SOLUTION 10'	ISDEN JARE	STATIC IG MD DA	MTI MTI	iE 1/10	YEAR	DRIGH CRUISE NO.	ATOR STATIO NUMB	S IN ER	DEPTH TO BOTTOM	MAX DEPTH OF S'MPL	DB:	WAVE SERVATION [HGT] PER	S THES		5	S	NODC FATION UMBER	
211520	15	7550		060375₩	250	50	08 1	5 21	13 1	969	WG5 00	4		0703		00	o x	X2	5 8			0004	
511525	13	1550		000377#		WA	TER	WI	ND	BARO	AIR TE	MP. C		NO.	S.P.	CIAL							
						COLOR	TRANS.	DIR.	SPEED OR	METE		WE.		OBS. DEPTHS	OBSER	ATIONS							
						CODE			FORCE	(mps.	, 5015	800	•										
	<u> </u>			1		L	1	00 5	500	150	034	02	8 7	13						1			-
	MESSENGE TIME HR 1/10	CAST ND.	CARC	DEPTH	lm)	31	۶.	<i>'</i>	SIGM	A-T	SPECIFIC VOLI	JME 10 ⁷	₹ △ D DYN, M X 10 ³	- SO	DCITY	0 2 m1/1	PD4-P 29-01/	fDTAL= #9 = of/	NO2-N vg - al/l	NO3-N µg - o1/1	SI O4-Si µg = oi/i	PH	500
								. [1									
			ST	o oo o	o c	384	215	4	171	6	010491	0	0000	14	483	796	·						
	213	3	085	000	o c	384	215	39	171	6				14	483	796							
			ST	D 001	o c	081	321	6	258	0	002204	7	0063	14	492	1276							
	213	3	085	001		081	321	63	258	0				14	492	1276							
		_	ST	0 0020) –(062	329	0	264	6	001581	T	0082	14	438	964							
	213	3	085	0 002) - () - (062	328	95 2	265	5	001474	2	0008	14	498 441	964							
	213		085	003	0 -0	064	3 30	- 	265	, ,	001474	-	00,0	14	441	040							
	21.	,	ST	0 005	- c	073	332	8	267	7	001284	0	0125	14	444	675							
	213	3	085	005	0 -0	073	332	76	267	7		-		14	444	675							
		-	ST	D 007	5 -0	052	333	8	268	4	001214	6	0156	14	459	650							
			ST	D 010	0 -0	035	334	8	269	1	001144	5	0186	14	472	627							
	213	3	085	010	1 -0	034	334	80	269	2				14	473	626							
			ST	D 012	5 -0	024	335	2	269	5	001112	9	0214	14	482	608							
			ST	D 015	0 -0	013	335	7	269	8	001082	9	0242	14	492	591							
	21:	3	085	015	1 -0	013	335	70	269	8		•		14	492	E / 0							
	21.4		0.00	U U20	2 0	0.92	330	D 75	272	4 5	000844		0290	14	556	558							
	21	5	ST	D 025)143	341	4	273	5	000744	0	0330	14	587	532							
	21	a	085	T029	8 (0174	342	69	274	3		•		14	610	513							
			ST	D 030	o d	0174	342	7	274	3	000670	9	0365	14	611	513							
			ST	D 040	0 0	0182	343	9	275	2	000590	3	0428	14	632	496							
	213	3	085	040	1 (0182	343	92	275	2				14	633	496							
			ST	D 050	0 0	0176	344	4	275	6	000551	7	0485	14	647	492							
	21:	3	085	т 050	3 (0176	344	43	275	7				14	648	492							
		_	ST	D 060	0 0	0175	344	5	275	7	000547	6	0540	14	663	502							
	21:	3	085	T060	2 (1175	344	49	275	7				14	664	502							
	21	3	085	1068	2 (1111	344	58	215	6				14	0/0	500							

REFERENC CTRY IC CODE NO	ε 5 5, co	NIP DDE	LATTU	DE	LONGITUDE	DRIFT	MAR SOU	SDEN ARE	STA		IIME	YEA	4.R	CRUISE NO.	DRIGIN S	ATOR'S		DEPTH TO BOTTOM	MA DEPT OF S'MPI	H OB	W BSER	VAVE IVATIONS	WEA THER CODI	CL	OUO DES	r.		NODC TATION NUMBER	
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COOR NO.	CODE	1/10	1	· '1/10	10*	Tit	MOI	DAY	HR.1/10		NO.	i i	UMBE		BOTTO	M S'MPI	S DR	HGT	PER SI	C 1	ODE	TYPE AN	7		NUMBER	
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	MESSENGI	CAST C	ARD	DEPTH (m)	1	τ.	1	•4.	SIG	MA-T	ANON	ALY-II		DYN. M		LOCITY	0 2 ml/	۳ L	104-1 • • •1/i		1-F	NO2-N	NO3-N	SI 04-5	∦ ₽Н	ć
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		5	5TD	0010	0	246	32	12	25	65	002	344	в (0031	14	4565	1029									
	181	1 08	s	0010	0	246	32	117	25	65					14	+565	1029									
		5	570	0020	0	087	32	88	26	37	001	663	1 (051	14	+506	1022									
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REFERENCE CTEY ID. CODE NO.	SHIP CDDE	LATITUD	E LC	NGITUDE	NA 50	ISDEN UARE	STATIO (G	N TIME MT} Y [HR.1/	YEAR	DRIG CRUISE NO,	STAT	R*S ON BER	DEP TO BOTT		AX. PTH C DF DR	W. DBSERV	AVE VATIONS	WEA- THER CDDE	CLOUD CODES	1		NODC STATION NUMBER	
311529	15	74504	N 05	7211W	258	47 WA COLDR CODE	08 20 TER TRANS	DIR. SP	1969 BAR MET MCE	WGS 0 O- AIR T ER DRY e) BULB	10 EMP. W			6.6 D. IS. THS OBS	SPECIAL ERVATION	0 0	x	X1	5 2			0010	I
								1 50	7 18	5 050	0	42 8	12	2									
	MESSENGI TIME HR 1/10	CAST	CARO TYPE		3	יי ז 10	s •,	. !	iigma-t	SPECIFIC VOI ANOMALT-	LUME 1107	₹ △ 0 DYN, A X 10 ³	λ. ,	SOUND	02 m	1/1	₽04-7 vg + a1/1	total-P 29 - 01/1	NO2-N 99 - 01/1	NO3-N 99 - 01/1	SID4- ve-ot	Si ph	s c c
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			STD	0000	(374	2679) 2	2132	00648	05	0000)]	14548	3 791	8							
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	144	5	085	0020	-0	034	3289	3 2	2641	00101	.,			14451	81	ī							
		-	STD	0030	-0	053	330	7 2	660	00144	93	0076		1444	62	8							
	144	5	085	0030	-0	053	3301	71 2	2660				1	14447	1 621	8							
	144	5	085	0049	-(068	3321	11 2	676				1	14446	5 56	1							
			STD	0050	~(067	3328	3 2	677	00128	32	0104	- 1	14446	56	1							
	140	5	085	0074	-0	043	3344	7 2	689				1	14464	560	6							
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			STD	0100	-0	030	3351	12	2699	00107	50	0162	2 1	14476	5 55	9							
			STD	0125	-(013	3366	5 2	2705	00101	36	0188	1	14489	9 54	7							
	140	5	085	T0149	(003	3374	•6 2	2711				1	14502	2 539	9							
			STD	0150	(0004	3379	5 2	2712	00095	30	0213	1	14502	2 539	9							
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	144	6	085	0317			3418	34							51	7							
	14	6	085	0327			342	16							51	1							

REFER	ENCE			-				MARS	DEN	STAT	ION TI	ME			-	RIGIN	ATOR'S		DEP	PTH	MAX.		WAT	VE	WEA-	CLDUD			NDDC	
CTRY	ID.	COOL	LATITU	D٤	LON	GITUDE	Dat Dat	san	ARE		GMTI		YEA	AR	CRUISE	5	TATION		T	0	DEPTH DF	085	SERVA	TIDNS	THER	CODES			STATION	
CODE	ND.			1/10		'1/10		10"	1.	MO	DAY H	R,1/10			ND.	N	UMBER		BUT	10 m	S'MPL'S	DIR	HGT	PER SEA	- CDDE	TYPE AM	F		NUMBER	
311	1529	15	7448	N	05	748 W		258	47	08	20 2	220	19	69	WGS	013	1	_	0.93	34		00	0	x	×1	5 2			0011	
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		MESSENGR TIME	CAST	CA	RD	DEPTH	(m)	T	r	s	•/	SIG	MA-	-1	SPECIFIC	VOLUA	Υ.Ε Σ		ч .	sou	ND	0 2 ml/l	PC	04-P	TOTAL-P	NO2-N	NO3~N	SI Da-S		5
		HR 1/10	1 .	11	PE										ANUM	407-210		x 10 ³	```	VELD			P.8	+ a1/l	yg - a1/l	µg - 01/1	µg - 01/1	yg - 01/	1	č
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		220	1	083	s	001	0	00	72	322	226	25	86						1	144	89 1	084								
				S	TD	002	0	00	014	328	36	26	40		001	6393	3 0	061	1	144	73 1	088								
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		220		OB	S	003	1	-00	273	33	109	26	63					1.04	1	144	38	746								
		220		200		005	1	-00		22.	20	20	77		001	2913	» U	104		144	40	650								
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				S	TD	012	5	00	21	336	8	27	05		0010	0155	5 0	189	1	145	05	595								
				S	TD .	0150	5	00)44	337	6	27	10		0009	9669	9 0	214	1	145	21	573								
		220		OBS	5	0153	3	00)47	337	72	27	11						1	145	23	571								
				SI	ΓD	0200	С	00	81	339	3	27	22		0008	3600) ()	259	1	145	48	541								
		220		08	5	T0204	4	00	083	339	40	27	23						1	145	50									
				S	TD	0250	2	00	080	340	2	27	29		000	7916	0	301	1	145	57	517								
				51	r D	0300	5	00		341	2	21	37		000	/143	5 U	238		145	62	501								
		220		OBS	5	10304	4	00	177	341	24	21	38		000					145	00	500								
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				SI	TD	080)	01	28	345	0	27	64		0004	+774	• 0	606	1	146	77	469								
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		226		085	5	0934	+			- 344	98											451								

REFEREN	ICE	SNIP		05	LONGIUD		5		SDEN ARE	STAT	ION T	IWE	YE	AR	_	DRIGI	ATO	irs .		DEPTH	MAX		W DBSER		Ť	'EA+ 1ER	CLDUE			NOD	C N	
CODE		CODE	•	1/10	1	/10	질라	10*	1 1	MD	DAY	1/10			NC		NUM	BER		BOTTON	S'MPL	S DIR	L H	CTI PER S	CI	DDE	TYPE AN	7		NUM	BER	
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1 3115	5291	15	7335	5N [055570	W I	1	258	1351	0817	<u> </u>	203	պ	69	WG		2 .	r T		0810	,L	1 01	<u>u</u> n			с <u>т</u>	1 1 10	I	1	00	121	
									COLOR		<u> </u>	SPEED	-	8 ARC	: ㅏ		Tw:	ET C	VIS.	DBS.	SPI											
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	ľ	TIME	P NO.	CAR TYP	E DEP	IN In	n)	1	° C	s	•/	SIG	MA	-T	ANC	MALY-I	<u>ا انتقارتها</u>	DYN	i. M.	· VEL	OCITY	D ₂ m	171	PO4=P ⊮g + at/l	101A	1/1	NO2≁N µg = at/1	vg - al/l	199-	ai/1	рH	Ċ
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		203	,	085		130		0	079	23	36	20	500	•	00	1 2 9 7	8	00	88	14	510	65	2									
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		203		089	. 01	00		ō	017	33	583	26	98	1	• •					14	498	67	ō									
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		203	3	OBS	5 TO3	02		0	151	34	276	27	145	5						14	601	55	1									
				S1	D 04	00)	0	185	344	40	27	152	2	00	0585	3	03	83	14	634	54	0									
		203	3	OBS	5 TO4	04	+	0	186	344	403	27	153	3						14	635	53	9									
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		203	3	085	5 TO5	05	•	0	215	34	513	27	759	2						14	666	53	2									
		210)	OBS	5 TO	96	•	0	220	34	548	27	162	2				~	~ •	14	684	52	8									
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					ro 07	00		0	217	34	56	27	163	5	00	0508	8	05	42	14	700	529	2									
		210)	UBS	5 10	02		0	21/	34	22/	21	103	5						14	700	22	2									
		210)	OBS	s 0,	92		U	218	34	228	- 21	10:							14	110	25	2									

REFERENCE CTRY ID, CODE ND,	SHIP CODE	LATTU	DE 1/10	LONGITUDE	DUFT	MAR SOU	SDEN ARE		N TIME	/10	EAR	CRUIS NO.	DRIGIN	ATOR STATIC	'S DN JER	1 80	TD TD TD TTOM	MAX. DEPTH DF S'MPL"	DB	WAY SERVA		S	WEA- THER CDDE	CLO				NODC STATION NUMBER]
311529	15	73339	9N	056090W		258	36 WAT	08 21 ER	23 WIN	5 1 D	969 BAR	WGS	S O1	3 MP. 7		0	320 ND.	5.05	00	0	X		×1	1	2		1	0013	1
							CDLOR	IRANS. Uni	DIR, S	PEED ON ORCE	An ETE (mba	R 1	DRY BULB	W 8 BU		DE D	DBS. IEPTHS	OBSERV	ATIONS										
	MESSENGE	CAST	CARE	DEPTH	(m)	T	r	s •/		SIGW	13. A-T		O VOLU	0		 M.	12		D2 m1/1	PI	D4-P	TC		NO2-	-N	ND3-N	SI Da-	Si pH	500
	NR 1/10	11				-		1						-+	× 10							+							╣
	226		ST	D 000	0	0	398	3150		250	3	002	936	5	0000	0	146	521 521	860	·									·
	202		ST	D 001	õ	ő	122	3269		262	õ	001	825	8	0024	4	145	518	1002										
	235)	ST	0 002	0	0	075	3292	2	262	1	001	624	5	004	ı	14:	502	810										
	235	•	085 ST	002 D 003	0	0	075 080	3292 3317	0	264 266	1 1	001	434	5	0050	5	145	502 509	810 632										
	239	5	0BS ST	003 D 005	0	0	080 084	3317 3337	3	266 267	1	001	283	8	0084	4	149	509 517	632 610										
	239	5	OBS	005	0	0	084	3337	4	267	7	0.01	160		011		145	517	610										
	239	;	OBS	007	6	ŏ	050	3353	0	269	2	001		~	011.	-	145	508	632										
	239	5	OBS	010	1	0	030	3360	,)3	269	9	001		9	014/	2	14:	504	633										
			ST	D 012	0	0	049	3370		270	3	000	945	4	0193	8	145	532	610 594										
	239	6	OBS ST	D 020	1 0	0	068 099	3381	.0 ;	271 272	3 2	000	856	4	023	в	145	532 556	593 583										
	239	5	085 ST	T020	4 0	0	102 131	3396 3409	6	272 273	4 2	000	0773	1	0278	в	149	559 581	580 519										
	23	5	085	025	2	0	163	3410	1	274	5	0.00	654	-	031		1.46	506	518										
	239	5	085 085	T030	3	0	165	3428	, 31 90	274	4	000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.91	•	146	507	540 492										

REFER	ENCE	SNIP	εάπτυ	DE	LONGITUDE	DCTA	MAR SOU	SDEN ARE	STAT	ON T GMT	IME	YEA			GINA1		_	OEPTH TO	L MA	X, TH	V OBSEI	VA VE EVA TIO	INS.	WEA- THER	CLOUE	s	5	NODC	
CODE	NO.	0002	•	1/10	- '1/10	Ľ≚	10*	TP	MO	AY	IR.1/10			NO.	NU	MBER		BOTTO	M S'MP	1.5	DIR. H	GT PER	SEA	CODE	TTPE AA	41	•	UMBER	
311	520	15	7255	4 N	0552724		258	25	08 2	3	147	196		WGS	114			near		Т	03	ı x		X4	X Q		1	0014	
		13,	1275		V))212W		2.50	WA	TEB	- (NIND	Τ.		A12	TEM	τ.	r-1		1-	_	· ا	- 14	•	1.04		'	1	0014	
								COLDR	TRANS. (m)	DIR.	SPEE	- M	ETER mbs)	DR1 BUL	8	WET BULB	COD	OBS. DEPTH	S OBSE	RVAT	IONS								
										01	511		0.6	01	, 1	017	12	16											
			<u>т – т</u>		1		r		Ļ	01	1211	10	104	101			12	4-	1	7	<u> </u>		-T			r —		,	-
		MESSENGE TIME HB 1/10	P NO.	CAR TYP	D СЕРТН	(m)	т	۲	s	•⁄	sig	MA-1	r	ANDMAL	OLUMI (-1107	יסי אוסיי	∧ 0 N. M 10 ³	- SC VEI	LOCITY	0	2 ml/1	PO 4	1 T	FOTALP #9 - st/1	NO2N #9 - 01/1	NO3-N 98 - 01/1	51 O4-51 99 - 01/1	ρН	500
													-†										-	_					$^{+}$
				ST	יה מי הי	h	່ ດ	219	300	4	24	02		0039	007	່ດ	აიი	14	523	۱ o	12		I	'		1	I	1	ł
		147	,	085	0000	5	ŏ	219	300	43	24	02		00.57				14	523	ģ	12								
				ST	D 001	5	ō	136	327	8	26	26		00170	574	00	28	14	525	8	169								
		147	,	085	0010	5	0	136	327	79	26	26				-		14	525	8	69								
				ST	D 0020	5	0	143	330	0	26	43		00160	039	00)45	14	533	8	17								
		147	,	085	0020	2	0	143	330	00	26	43						14	533	8	17								
				ST	D 0030)	00	078	331	9	26	62		00142	235	00	060	14	508	6	86								
		147		085	0030)	00	78	331	86	26	62						14	508	6	86								
				ST.	D 0050)	00	79	333	4	26	75		00130)52	00	88	14	514	6	95								
		147		OBS	0050)	00	79	333	42	26	75						14	514	6	95								
				\$T	D 007	5	00	075	334	2	26	82		00124	12	01	119	14	518	6	90								
		147		085	0075	5	00	75	334	23	26	82						14	518	6	90								
				ST	D 0100)	00	074	335	5	26	92		00114	40	01	49	14	523	6	68								
		147		085	010	L	00	074	335	55	26	92						14	523	6	67								
				ST	D 0125	2	00	079	336	9	27	03		00104	06	01	77	14	531	6	34								
				\$T	D 0150		00	285	338	0	27	11		00096	509	02	202	14	540	6	08								
		14/		085	10154	2	00	086	338	12	21	12			24	0.7		14	541	6	06								
		147		31	U U200			101	227	<i>'</i>	21	24		00084	20	02	41	14	550	2	85								
		147		005	D 0260	<u> </u>		102	309	10	21	24		0007		0.2		14	500	2	82								
				51	D 0300	í		159	343	6	27	46		00064	103	0.2	120	14	604	5	22								
		153		085	0300	5	•		342	0 5		40		0000		0-		17	004	5	32								
		100		ST	n 0400	5	0:	204	344	é.	27	5.8		00053	195	03	179	14	643	5	24								
		153		085	0400	5			344	82				0002.		0-			0.45	ś	24								
				ST	D 0500	5	02	2 3 3	345	4	27	60		00052	263	04	32	14	674	5	41								
				ST	D 0600)	0	249	345	8	27	62		0005	66	04	85	14	698	5	49								
		153		085	0600)	02	249	345	80	27	62				-		14	698	5	49								
				ST	D 0700)	0	241	345	8	27	62		00051	44	05	36	14	711	5	43								
				ST	D 0800)	02	237	345	7	27	62		00052	203	05	88	14	726	5	38								
		153		OBS	T0800)	0;	237	345	74	27	62						14	726	5	38								
				ST	D 0900)	02	236	345	7	27	62		00052	45	06	40	14	742	5	34								
		153		085	T0951	L	02	236	345	74	27	62						14	751	5	32								
		153		085	0961	L			345	70										5	04								

REFER	ENCE ID.		LATITU	OE	LONGITUOE	DRIFT	MAR	SDEN ARE	STA TIC (G	DN TI	ME	YEAR	CRUIS		ATOR	's In		DEPTH TO	MAX. DEPTH OF	OBS	WAVE ERVATIONS	WEA- THER CODE	CLC CO				NODC	
CODE	NO.		•	1/10	1/10	2	10*	<u>۴</u>	MO DA	AY HI	L,1/10		NO.	<u> </u>	UMB	ER	+-		S'MPL"	OIR.	HGT PER SE		TYPE	AMT				
311	1529	15	7217	onI	061465W		259	21		4 0	22 IN 0	1969	<u> w</u> Gs	AIR TE	0 MP. °C			836 ND.			o x	X1	8	7	l	I	0015	I
								COLOR	TRANS.	OIR.	SPEED OR FORC	E Umb	ER a)	DRY	W E RUL	T COI	5. De	OBS. DEPTHS	OBSERV	ATIONS								
										00	500	05	0 0)16	01	16	T	16										
		MESSENGE TIME	CAST NO.	C AR TYP		(m)	г	r	5.	·/	SIG	MA-T	SPECIF	IC VOLU	ME 07	₹ ∆ 0 DYN. X 10	м. 3	SOL	UNO DCITY	02 ml/l	PO4-P µg - at/l	101AL-P 20 - 01/l	NO2 49 - 1	-N 01/1	NO3-N 48 - ei/l	51 O4-5 yg - al/	pH	500
							+		1	-		_						1										Ħ
				! < 1	n 000	0	່ ດ	307	286	A	22	80	່ດດາ	5066	4	000	٥	_ 14'	583		1 1			'				
		023	,	085	000	ŏ	o.	397	286	้อา	22	80	•••		•		•	149	583									
		022	-	ST	0 001	ŏ	-0	025	320	5	25	76	002	2241	6	003	7	144	442									
		023	,	085	001	õ	-0	025	320	51	25	76						144	442									
		022	-	ST	0 002	õ	-0	118	330	4	26	59	001	450	9	005	5	144	414									
		022	,	OBS	002	õ	-0	118	330	41	26	59						144	414									
			-	ST	0 003	0	-0	153	332	3	26	76	001	296	5	006	9	144	402									
		022	2	OBS	003	0	-0	153	332	29	26	76						144	402									
				ST	0 005	0	~0	171	333	7	26	87	001	185	5	009	4	14:	399									
		022	2	OBS	005	0	-0	171	333	66	26	87						143	399									
				ST	D 007	5	-0	176	334	2	26	91	001	142	6	012:	3	144	401									
		022	2	OBS	007	6	-0	176	334	20	26	92					_	144	+01									
				ST	0 010	0	-0	164	334	9	26	97	001	090	8	015	1	144	412									
		022	2	OBS	010	1	-0	163	334	90	26	97					_	144	413									
				ST	D 012	5	-0	141	335	8	27	04	001	024	4	017	7	144	428									
				ST	0 015	0	-0	111	336	8	27	11	000	956	4	0202	Z	144	448									
		022	2	OBS	015	1	-0	110	336	83	27	11					-	144	449									
				51	0 020	0	-0	030	338	1	21	23	000)843	6	024	1	144	497									
		022	2	085	020	2	-01	021	338	18	21	24	000	724		020	4	14	470 540									
				51	0 025	0	0	040	340	0	21	30	000	1120	4 c	0200	0 1	14:	576									
				51	0 050	8	0	172	344	1	27	4.5	000	1629	5 6	038	1	14.	620									
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				51	0 060	ŏ	ŏ	167	345	ú	27	65	000	1475	6	048	4	14	661									
		022	,	OBS	T060	3	ŏ	167	345	37	27	65			•	• •	·	140	662									
			-	ST	0 070	ō	ŏ	125	345	2	27	66	000)455	2	053	0	140	559									
				ST	0 080	0	0	089	345	ō	27	67	000)442	7	057	5	140	659									
		022	2	OBS	T080	5	0	087	344	99	27	67						140	659									
				ST	0 090	0	0	063	344	9	27	68	000)430	7	061	9	140	664									
				ST	D 100	0	0	039	344	8	27	69	000)418	8	066	1	140	570									
		022	2	OBS	T100	2	0	038	344	76	27	68						140	670									
				ST	D 110	0	0	026	344	8	27	69	000)412	6	070	3	140	581									
				ST	D 120	0	0	009	344	7	27	70	000	9400	0	074	3	140	690									
		022	2	085	T120	8	0	007	344	73	27	70		_				140	591									
				ST	0 130	0	-0	015	344	8	27	71	000	378	Z	078	2	140	596									
				ST	U 140	Ů	-0	044	344	8	27	73	000	1351	8	081	9	14	100									
				ST	U 150	U E	-0	078	344	8	27	74	000	J3Z1	T	085	2	14	701									
		032	2	085	1150	2	-0	080	344	79	27	74						14	101									
		032	<u> </u>	082	163	2			344	14																		

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REFER	RENCE	CVID.		LATITUDE			MAR	SDEN	STA	TION	TIME			c	RIGINA	TOR'S		DEPTI	+ M.	AX,	1	WAV	E	V	NEA-	CLOU	D			NODC	
CTRY	10.	CODE	LATITU	DE	LONGI		500	ARE		GMT)	YEA	AR	CRUISE	51	ATION		TO		DF	OBSE	RVA	nons	1	HER	COD	S			STATION	
	NO.			1/10		1/10 =	10*	1.	MO	DAY	HR.1/10	<u> </u>		NO,	N	JANBER				PL'S	DIR	HGT	PER SE	A 0	ODL	TYPE A	MT		-	NUMBER	
31	1529	15	7245	ON	0570	loow	258	27	08	24	135	19	69	WGS	015			021	в		00	0	x		x2	6 8	3			0016	
								WA	TER	1	WIND		BARO	A	IR TEM	P. °C	Γ.,	NO.	Ť.		, j										
								CDLOR	TRAN	- 08	SPEE	DA	METE		IRY	WET	CDD	OBS.	D85	ERVATI	ONS										
								CODE	[[m]		FOR	E	(mbs)	1 81	JL B	BULB		Dertin													
										00	500		014	0	27	022	7	111													
		MESSENG	CAST		20				T		1			C RECIEIC		. 2	Δο	1.	0000			1.0							~		1.
		TIME	º NO.	ĨĨ	PE	DEPTH (m)	T	τ	5	•/••	SIG	SMA-	-1	ANDM.	ALY	;" O	YN. M	VE	LOCITY	D ₂	2 ml/1	1 10	- 01/1	24	01/1	2 - al/		NO3-N	- 10 - 0l	на 11	Ċ
		HR 1/10	·		-		-		+		+						X 10-					-									-+-
			1													ł						E.			ļ						
				S	TD	0000	0	528	32	70	25	584		002	1645	0	000	14	4691	L											
		13	5	OB.	S	0000	0	528	32	698	25	584						14	4691												
				S	то	0010	0	524	32	74	25	88		002	1273	0	021	14	4692	2											
		13	5	OB.	S	0010	0	524	32	743	25	588						14	4692	2											
				\$	TD	0020	0	356	32	98	26	525		001	7815	0	041	14	4626	•											
		13	5	OB	S	0020	0	356	32	982	26	525					<u> </u>	1	4626	b											
				S	TD	0030	0	058	33	29	26	572		001	3363	O D	057	14	4501												
		13	5	OB:	S	0030	0	058	33	286	26	572						14	4501												
				S	TO	0050	-0	046	33	42	26	88		001	1821	0	082	1	4458	3											
		13	5	OB:	Ş	0050	-0	046	33	423	26	88						14	4458	3											
		13	5	OB:	S	0074	-0	048	33	505	26	94						14	4462	2											
				S	TD	0075	-0	048	33	51	26	9 5		001	1163	0	111	14	4463	3											
		13	5	OB:	S	0098	-0	041	33	554	26	98						14	4470)											
				S	TD	0100	-0	034	33	57	26	99		001	0732	0	138	1	4474	•											
		13	5	0B	S	0123	0	031	33	765	27	112						14	4510)											
				5	TD	0125	0	036	33	78	27	112		000	9475	0	163	14	4513	3											
		13	5	OB	S	0147	0	080	33	901	27	720						14	4538	3											
				S	TD	0150	0	082	33	91	27	20		000	8755	0	186	1	4540)											
		13	5	OB:	s t	0195	0	097	33	946	27	22					_	14	4555	>											
				S	TD	0200	0	097	33	95	27	22		000	8582	0	229	14	4555	5											
		13	5	OB:	s t	0207	0	096	33	947	27	22						14	4556	•											

REFERENC	E		1		MAR		STATION	TIME	<u> </u>	1		108'5			MAX	1	14/ A 1		Τ.,		Ciour	T			
CT07 10	SHIP	LATITUDE	LON	AGITUDE S	sou	ARE	IGN	13	YEAR	CRUISE	51	ATION		TO	DEPTH	0	BSERVA	TIONS	Ť	HER	CODE	í l		STATION	
CODE N	5. 1000	* 1/10	D	· 1/10 [⊔] ≝	10*	11	MO DAT	HR.1/10	1	NO.	N	UMBER		80TTO#	S'MPL'S	DR.	NGT	PERS	EA CI	300	TYPL A A	i i		NUMBER	
2115	10 10	73385 1	0.5	804 W	250	20	00 24	160	1060	Jure -	016			0177		0		v l		~ 2	4 0			0017	
3112	29' 15	12385N	1 05	804 WI	1200		<u>UB 124</u>	WIND	11203	IWGS	IR TEM	P. 10	T-1	0172	1	1 00		<u>^ </u>	1.4	×2	0.0	1	1	0017	
						COLOR	TRANS	SPEE	D MET	D-	DRY I	WET	VIS	OBS.	SPEC	CIAL	.]								
						CODE	(m)	IR. DE	t Umb	3 8	ULB	BULB	1	DEPTHS	UUSLEV	~ 100	1								
							0	0 500) 25	0 0	37	030	7	10			1								
			-		T		<u></u>	- 10		<u> </u>	21.1		<u>^</u>	1	·		<u></u>		1	T					Τ.
	TIME	" LCAST C 맨 HO, T	ARD	CEPTH (m)	ד	č	s •4	• sic	SMA-T	SPECIFIC AND M	VOLUA	÷ أ	YN. M	SO VEL		0 2 ml	/1 2	Da-P	TDTA	L=P	NO2-N	NO3-N	SI O4-	SI pH	è
	HR 1/1					_	-	_					X 101					• • • • •	201		bð - 9 1/4	N8 - 91/1	pg - 0	1	C
																				- !			-		1
			STD	0000	0	521	3237	25	559	002	4055	0	000	14	684										
	16	0 01	BS	0000	0	521	3236	7 29	559					14	684										
		:	STD	0010	0	431	3260	2 5	587	002	1367	0	023	14	651										
	16	0 08	3S	0010	0	431	3260	3 25	587					14	651										
		:	STD	0020	0	163	3298	26	540	001	6336	0	042	14	542										
	16	0 01	85	0020	0	163	3297	8 26	540					14	542										
			STD	0030	0	017	3325	26	571	001	3436	0	056	14	481										
	16	0 06	BS	0030	0	017	3324	926	571					14	481										
			STD	0050	-0	070	3341	26	587	001	1864	0	082	14	447										
	16	0 06	BS	0050	-0	070	3340	5 26	587					14	447										
		:	STD	0075	-0	045	3355	26	598	001	0876	0	110	14	464										
	16	0 06	35	0075	-0	045	3354	6 26	598					14	464										
			STD	0100	-0	026	3362	2	703	001	0387	0	137	14	478										
	16	0 06	35	0101	-0	025	3362	1 2'	703					14	479										
			STD	0125	0	020	3374	27	710	000	9693	0	162	14	505										
	16	0 06	8 S	0126	0	022	3374	2 2	10					14	506										
			STD	0150	0	065	3385	21	716	000	9108	0	185	14	531										
	16	0 01	BS	T0152	0	067	3385	6 2	717					14	533										
	16	0 01	BS	T0161	0	072	3385	82.	717					14	536										

	SNIP	ιλπτυ	OE		MAR	SOEN	STA	TION IG MT	TIME	YEAR		O	RIGIN A	TORS	•	Ī	DEPTH TO	MAX. OEPTH OF	0	WAV	TION!	,	WEA- THER	CLC	DE2				
CODE NO		•	1/10	· 1/10	10*	11	MO	DAY	HR.1/10			NO.	N	UMBE	R	Ľ	IOTIOM	S'MPL"	S Da	HGT	PER	EA	COUR	TYPE	AMT	· · · · ·		NUMBER	
	0.10	2222		OFFEEL	25 P	2.0	0.0	24	182	196	•	was!	017	7			245		00	0	x		X1	6	7			0018	
. 31152	9151	1232	AM 1	0000000000	1200	WAT	TER	1-1	WIND		20	A	IR TEN	AP. C		Ť	ND.		<u> </u>	י י'ך									
						COLOR	TRAN	L OR	SPLE	M	ETER	0	RY	WET	cod	56	OIS.	OBSERV	ATION										
						CODE	Lin)	-	FORC	:E (#	nbs)	10		1011	4	4				-									
							ŀ	00	500) 4	20	02	29	01	3 7		11												
	MESSENGI TIME HR 3/10	CAST NO.	CAR	O DEPTH (m)	т	٣	,	• • • • •	\$iG	MA-T	•	ANOMA	VOLUA	ме 17	≨∆0 DYN./ x 10 ³	о м. 3	SOI VELO	UND VTIOC	0 2 ml)4-P - 01/1	10	0TAL-P 0-01/1	NO2 #8-	-N 01/1	NO3N 80 - 01/1	51 O 4- 199 - at	Si pN	500
					-						Τ					_													
	1	1	51	0000	່ o	567	32	52	25	666	'	0023	434	, ' i	000	0	14	705 ່		'									
	18.	,	080	0000	ň	567	32	517	25	66						-	14	705											
	10.	_	51	0010	ŏ	557	32	55	25	69		0023	100) (002	3	14	703											
	16	2	OBS	0010	0	557	32	548	25	69							14	703											
			S1	D 0020	0	125	33	07	26	50		0015	379	9 (0043	3	14	526											
	18:	2	085	5 0020	0	125	33	072	26	50						_	14	526											
			- 51	D 0030	0	003	33	22	26	69		0013	3591	1 (005	7	14	475											
	18	2	OBS	5 0031	-0	007	33	237	26	571						_	14	470											
			51	D 0050	-0	108	33	38	26	86		0011	923	3 (008	3	14	429											
	18	2	085	5 0052	-0	113	33	391	26	888			0.00			,	14	421											
		-	51	0 0075	-0	082	22	510	20	207		0011	1005	, ,	JTT.	1	14	441 440											
	10.	2	003		-0	070	23	65	27	705		0010	1153	a (113	R	14	47R											
	1.9	2	080	0102	-0	027	33	667	27	706		0010					14	481											
	10.	٤	CD.	0125	ŏ	046	33	82	27	115		0009	226	5 (016	2	14	518											
	18	2	089	0128	ŏ	053	33	837	27	116						-	14	522											
	10	-	51	D 0150	ŏ	089	33	93	27	721		0008	3641	7	2184	4	14	543											
	18	2	08	T0154	Ō	095	33	945	27	122							14	547											
			51	0020 D	0	148	34	08	27	29		0007	7924	4 (222	6	14	580											
	18	2	OBS	5 T0200	0	148	34	079	27	29							14	580											
	18	2	OBS	5 T0237	0	158	34	094	27	730							14	591											

REFER	ENCE							154			7446		1	ORIGI		7 %	Т		MAX		147.4				C10					1
CTRY	10.	SHIP	ιλπι	JDE	LONGITUDE	DCT	SQUA	RE	31 1	GMTI	IME	TEAR	CRUI	SE	STATI	ON .		TO	DEPTH	08	ERV.	ATIONS		THER	co	DES			STATION	
COOL	NO.	CODE	•	1/10	1/10	°≚⊢	10*	1.	MÓ D	AY	(R.1/10		NC		NUM	BER	9	DTTOM	S"MPL"S	0 aL	HGT	PERS	EA	CODE	TYM	A MI			NUMBER	
31	1529	15	7228	ION	059480w	\square_i	258	29	08 2	4	213	1969	WG	s 01	18		0	420		00	0	x		X1	6	7			0019	
							-	WAT	ER	`	WIND		∝⊢	ART	EMP. '		5	NO.	SPEC	:IAL										
							0	COOF	TRANS.	OR.	08	° ∧+ET	ER	ORY	80	ET CO	of,	DEPTHS	OBSERV	ATIONS										
							H				1000	100		- 26			+													
			·	T					L	32	1505	105	<u>+ </u>	025	10	12]/	1	12			—		т							T
		MESSENGI TLME	CAST	CA	RD OEPTH	/m1	т	τ	s	•/	SIG	MA-T	SPECI	FIC VOL	UME	₹∆ OYN.	о м.	sou	IND	02 m1/1	1	04-7	10	1A L-P	NO2-	-N	NO3-N	5104-	Si pN	
		HR 1/10	1		rt											X 10	3	VELC	JCIII7	-	P.	g - at/l	"	g - 61/l	nð - 0	1/1	pg - at∕l	99 - ot	1.	19
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		•		S	TD 0000	ׂ נ	05	63	315	7	24	92	00	3046	55 [`]	000	0	140	590 [′]											•
		213	3	OB	s 000)	05	63	315	74	24	92						146	590											
				S	TO 0010)	01	32	323	8	25	95	00	2065	54	002	6	145	518											
		21:	3	0B	s 0010	כ	01	32	323	84	25	95						149	518											
				S	TD 0020)	-00	99	332	1	26	73	00	1324	¥8	004	3	144	426											
		213	3	OB	s 0020)	-00	99	332	13	26	73					_	144	426											
				S	TD 0030	J	-01	46	333	0	26	81	00	1243	88	005	5	144	406											
		21	5	UB.	5 003	1	-01	49	322	00	20	82		. 1 70			~	144	105											
						,	-01	00	222	00	20	000	00	117:	>>	008	U	144	400											
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		213	3	OB	s 010	2	-01	31	334	75	26	95						144	428											
			-	s	TD 012	5	-00	96	336	4	27	07	00	0993	36	016	3	144	\$50											
		21:	3	08	S 012	7	-00	91	336	55	27	08						144	453											
				S	TO 0150)	-00	20	337	7	27	14	00	0925	58	018	7	144	491											
		21:	3	OB	S T015	1	-00	17	337	80	27	15				_		144	493											
		_		S	TD 020	כ	01	09	340	4	27	29	00	0794	49	023	0	145	562											
		21:	3	OB	S T0204	•	01	17	340	62	27	30					_	145	567											
				S	TD 0250	2	01	83	342	26	27	41	00	0683	35	026	7	146	506											
				5	10 030	,	02	35	344	2	27	50	00	060	18	029	9	140	540											
		21	5	08	5 1030	1	02	30	344	23	27	50	~~	0544		035	-	146	540											
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		<u> </u>		~~~	0.71.	-	~ ~ ~		~~~~	0	£ 1	~~						***												

REFE	ID.	SNIP	LATITUD	E		DCT	MARSDE	E E	STAT	ON T	IME	YEAR	CRUISE		ATOR'S		DI	ертн то	MAX. DEPTH	085	W A ERV	A TIONS	WEA- THER	CLOU	D ES			NODC	ĺ
CODE	NO.	CODE	•	1/10	· '1/10	'≝ -	10'	1. 1	10 0	AY H	R.1/10		NO.	<u> </u> i	NUMBER	1	601	TTOM	S'MPL'S	OR.	нG	TPER SE	A CODE	TYPE A	MT			NUMBER	
31	1529	15	72230	IN C	060450W	2	:59 L		8 2	4	234	1969	WGS	01	9 MP T	T	06	10		00	0	x	X8	6	6			0020	
							co		TRANS.	DIR.	SPEED OR	METE		DRY	WET BULB	COD	DE	NO. DBS. PTHS	SPEC OBSERV	ATION S									
							-			~ 1	FURCE	100		16	0.07	1-	+,												
		MESSENGI TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m	.,	ן ז'ז	ł	s	•4.	SIGA	108 1A-T	SPECIFI	C VOLU		É 🛆 D NN. N X 10 ³	Å.	SOU VELO	ND CITY	02 ml/1	,	PO4-P /g - ot/i	TOTAL=P μg = αl/l	NO2	N /1	NO3-N 48 - 01/1	-40 I2	Ŝi ∕I pH	S
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				STO	່ວວດວ່		041	18	288	1	22	38	004	988	1 0	000	່ເ	145	593 [']		'								
		234		OBS	0000		04	18	288	08	22	38						145	93										
				STO	0010		019	98	319	9	25	59	002	404	1 0	037	7	145	642										
		234	4	OBS	0010		019	98	319	94	25	59						145	642										
				STC	0020		001	12	329	9	26	50	001	536	1 0	057	7	144	74										
		234	4	OBS	0020		001	12	329	94	26	50						144	74										
				STD	0030		-010)5	332	3	26	74	001	307	0 0	071	L	144	25										
		234	•	OBS	0030		-010)5	332	33	26	74						144	25										
				STD) 0050		-016	51	333	6	261	36	001	194	1 C	096	>	144	03										
		234	•	OBS	0050		-016	51	333	58	261	36						144	03										
				STC	0075		-016	50	334	0	269	90	001	160	3 C	125	5	144	09										
		234	÷	08\$	0076		-016	50	334	07	269	90						144	09										
				STC	0100		-012	22	334	9	269	96	001	100	7 C	154	•	144	32										
		234	•	OBS	0101		-012	20	335	00	269	77						144	33										
				STC	0125		-004	•0	336	6	270	7	001	001	1 0	180)	144	77										
		234	•	OBS	0126		-003	37	336	70	270)7						144	78										
				STC	0150		000)4	337	9	27:	15	000	922	5 0	204	•	145	03										
		234	+	0BS	0151		000)6	337	94	27	15						145	04										
				STC	0200		008	33	340	1	272	28	000	800	6 0	247	2	145	50										
		234	•	OBS	T0203		008	37	340	20	272	29						145	52										
				STC	0250		011	1	341	6	273	39	000	706	2 0	285	5	145	73										
				STC	0300		013	36	342	9	274	+7	000	626	0 0	318	3	145	94										
		234	•	OBS	T0300		013	36	342	91	274	•7				2-4		145	94										
				STC	0400		018	31	344	6	27	8	000	534	b 0	576	,	146	25										
		234	•	OBS	T0404		018	32	344	70	275	8						146	34										
				STC	0500		018	31	345	1	270	δZ	000	503	2 0	428	5	146	50										
		234	•	OBS	T0501		018	31	345	15	276	2						146	51										
				STD	0600		012	1	345	2	276	> /	000	449	5 0	476	•	146	41										
		234	•	UBS	T 06 0 2		011	.9	345	21	276	57						146	40										

REFERENCE CTRY ID. CODE NO.	SHIP CODE	SHIP LATITUDE LONGITUDE			DRIFT INDCTR	MARS SOU	ARE		M TIZ M TI M TI	ME 2.1/10	YEAR	CRUISE NO.	DRIGIN S	ATOR'S		0E 801	EPTH TO TTOM	MAX. OEPTH OF S'MPL'S	OBS DIR.	W A ERV HG	VE A TION	S SEA	WEA- THER CODE	CLC CO	DES AMT		;	NOOC TATION IUMBER	
311529	15	72110N	06	2450W		259	22	08 2	5 0	57	1969	WGS	02	1		21	10		00	0	x		x7	6	8			0021	
							WAT	ER		IN 0	BAR	o-	AIR TE	NP. C	VIS.		10.	SPEC											
							COLOR	trans. (m)	218.	OR	(mb	ER 11 B	ULB	BULB	COD	DEF	PTHS	OBSERVA	TIDNS										
									20	506	05	9 0	18	014	7	1	7		-										
	MESSENGE			1		T		└──┴			100				: ^ 0	ŤÊ				T.		1						1	٦,
	TIME	NO.	TYPE	DEPTH 6	m }	T	Ċ	5.	•••	SIGA	T-AA	ANOM	ALT-I	~ c	YN. M		VELO	CITY	02 ml/l	י ע	104-1 8 + 01/1	ען ו	9 a1/1	NO2- Pg - 0	-N H/I	NO3-N yg - ot/l	SIO4-S	pН	ć
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	057	0	85	0000	,)	0	101	2469	56	19	31	007	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 0	000		143	51											
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	057	0	85	0010)	-00	076	3218	31	25	89						144	20											
			STD	0020)	-0	153	3300)	26	57	001	470	8 0	068		143	97											
	057	0	85	0020)	-0	153	3300)3	26	57						143	97											
			STD	0030)	-0	149	3324	•	26	76	001	288	30	082		144	04											
	057	0	BS	0030)	-0	149	3324	+1	26	76				• • •		144	04											
	0.57	~	STD	0050)	-0	173	3330	2	26	57	001	189	1 0	107		143	98											
	057	0	50	0050	;	-0	175	234	50	200	<i>ז</i> כ ז כ	0.01	142	<u> </u>	124		142	02											
	057	0	85	007-	5	-0	175	3342	20	26	91 92	001	142	9 0	1 20		144	02											
	0.2.1		STD	0100)	-0	160	334	, ,	26	97	001	089	60	164		144	14											
	057	0	85	0101		-0	159	3349	2	26	97						144	15											
			STD	0125	;	-03	150	335	7	270	33	001	029	50	190		144	24											
			STD	0150)	-01	L40	3365	•	270)9	000	969	70	215		144	34											
	057	0	BS	0152	2	-03	139	3365	8	27	10				_		144	35											
			STD	0200)	-00	35	3382	2	273	19	000	879:	30	262		144	94											
	057	0	BS	0202	2	-00)31	3382	25	27	19			~ ^	200		144	96											
			SID	0250	,	00	130	3404	-	21:	52	000	104. 470	3 U	203		145	51											
			STD	0400	, i	01	142	2441	•	27	*1	000	550	0 U	2 3 9 4 0 1		140	74											
	057	0	85	T0404	,	01	165	3441	8	27	55	000	,,,,	, ,	401		146	26											
		•	STD	0500		01	159	3443	ĭ	275	57	000	545	0 0	456		146	39											
			STD	0600)	01	42	3445	•	276	50	000	519	0 0	509		146	49											
	057	0	65	T0604	•	01	L41	3445	3	276	50						146	49											
			STD	0700)	01	105	3448	1	276	55	000	468	8 0	559		146	49											
			STO	0800)	00)73	3449)	276	57	000	4374	40	604		146	52											
	057	0	85	0805	,	00	272	3449	21	278	8						146	52											
			STD	1000	,	00	122	3448	5	270	58	000	4211	6 U	647 600		140	29											
	057	0	BS	T1006		00	121	344	20	276	50	000	420.	+ 0	090		140	67											
	• • • •		STD	1100	, ,	00	18	344	, Č	276	59	000	4084	4 O	731		146	77											
			STO	1200)	0 O	005	344	,	27	70	000	396	o õ	771		146	88											
	057	0	8S	T1211		00	004	3447	4	27	70						146	90											
			STD	1300)	-00	800	344	·	277	71	000	384(60	810		146	99											
			STD	1400)	-00	020	344	,	27	71	000	3744	40	848		147	11											
	04.4	-	STO	1500)	-00	29	3447		27	12	000	366	20	885		147	24											
	066	0	5 5 5	11510	,	-00	130	344	2	2/7	12	000	362	- -	07/		147	25											
			STD	2000		-00	142	3445		21	15	000	2431	20 71	7/4 050		14/	03											
	066	0	85	T2018		-00)42	3440	2	27	74	000	ככי	1 I	0.28		140	06											
	066	ŏ	85	12120	j l	-00	40	3449	0	27	73						148	25											

REFERENCE						LE	MARS	DEN	STA	TION T	IME			RIGIN	ATOR'S		DEPT	н	AX.		WA	٧ŧ		WEA-	CLO	up			NODC	1
CTRY ID.	CODE	LATITU	DE	LONGI	L D D E	E C	san	ARE		(GMT)		YEAR	CRUISE	1	STATION	-1	TO	DE	OF	OBS	ERV	ATION	s	THER	cor	DES			STATION	1
CODE NO.		•	1/10	•	'1/10	- 1	10°	1.	MD	OAYT	IR, 1/10		NO.		NUMBER		BOLLO	·~ \$'~	PL'S	DIR.	HGT	PER	SEA	CODE	TYPE .	A M T			NUMBER	
211620	1.6	7205	<u></u>	0433	0014	1	260	22	0.0	26 1	005	1060	luce	0.2	2	- 1	2201	<u>_</u>		<u>00</u>	6	¥		¥2	6	。			0022	
. 311323	121	1205	UNI	0033	00%		237	WA	TER		WIND	1303		UR TE	MP. C	T - 1		¥ 1		_00	0			1 72	Q .	0			0022	4
								CDLOR	TRANS		SPEE	D MET		RY	WET	21V	OBS.		SPECI											
								CODE	(m)	UIK,	FOR	E lmb	a) 0	ULB	BULB		DEPTH	15 000												
										24	1000	04	6 0	00	L006	7	17													
		1 1						_	4	134	1300	5 04	10	0 9	000	1'	111		-1-		T		1						-1	
	MESSENGE	CAST	CAR	0 1	DEPTH (m)	т	٣	5	•/	sic	MA-T	SPECIFIC	VOLU	ME O	YN, M	S	OUND		02 ml/l	1	04~P	TC	DTAL-P	NO2-	N	NO3-N	SI 04-	Ha k	S C
	HR 1/10	T NO.	TYP										ANUM	AL1-11		x 10 ³	1 14	LOCITY	Y		1	g - 01/1	" "	g = o1/l	70 - 01	11	µg - ot/l	¥ð - al	4	Ċ
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	1	1 1	c +	<u>`</u>	0000	`	0		່າເ	• <i>i</i>	່າດ	0.0	0.04	<u>م د ،</u>	- ' o	000	<u>'</u> ı.		5		1					1	,		'	
			51	0	0000	Ś	00	080	22	94	20	102	000	704	, ,	000	1	440. 440.	5											
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	095)	005	<u>_</u>	0020	,	-0	124	24	000	20	40	001	200	0 0	070	- 1	437.	, ,											
			21	0	0030	,	-0.	101	22	0.0.2	20		001	270	y 0	010	1	497	7											
	095)	085	~	0030	, ,	-0.	102	22	2092	20	0.2	0.01			104	- 1	4374	4											
	0.00		51	0	0050	<u>,</u>	-0	174	22	205	20	01	001	239	4 0	104	1	4370	2											
	095	2	005	~	0050		-0.	174	22	299	20	101	001	1 < 2	<i>c</i> 0	1.1.		4370	1											
			51	0	0075	2	-0	170	22	202	20	89	001	102	6 0	134	- 11	4401	1											
	095	>	065		0075	2	0	170	22	592	20	07	001	1 7 2		162	1	440.	1											
			51	U	0100	,	-0	170	33	44	20	593	001	123	8 0	103	1	4403	9											
	095)	085	~	0100		-0	170	22	442	20	193				1		440	2											
			51	-	012:		-0	101	22	24	2 1	101	001	049	4 0	190	1	4413	2											
			ST	D	0150)	-0	151	33	53	27	08	000	982	3 0	215	1	4428	8											
	095	6	085	-	0150)	-0	151	33	529	2	108					1	4428	5											
			ST	D	0200)	-00	053	33	81	21	19	000	8//	8 0	262	1	448:	2											
	095	b	OBS		0200)	-00	053	33	811	27	19					14	448:	5											
			ST	D	0250)	00	018	34	00	27	31	000	769	1 0	303	1.	4529	9											
			ST	D	0300	2	00	076	34	15	27	40	000	690	8 0	340	1	456	5											
			ST	D	0400)	0	152	34	38	27	53	000	573	8 0	403	14	4619	9											
	095	i i	085	т	0402	2	0	153	34	384	27	54					14	4620	0											
			ST	D	0500	2	0	150	34	44	27	58	000	530	6 0	458	1	463	5											
			ST	0	0600)	0.	146	- 34	50	27	63	000	488	7 0	209	14	465.	1											
	095	;	085	т	0603	3	0	146	34	497	27	63					1	4652	2											
			ST	D	0700)	0;	113	34	49	27	65	000	467	8 0	557	14	465	3											
			ST	D	0800	2	00	083	34	48	27	66	000	452	8 0	603	14	4650	5											
	095	i i	085	T	0806	5	00	081	34	475	27	66					14	4656	5											
			ST	D	0900)	00	056	34	47	27	67	000	439	8 0	647	1	4661	1											
			ST	D	1000)	00	036	34	46	27	67	000	431	8 0	691	14	4668	В											
	095	j -	085	਼ੁੁ	1010	2	00	034	34	458	27	67					- 14	4669	9											
			ST	D	1100)	00	024	34	46	27	68	000	425	1 0	734	1	468	0											
			ST	D	1200)	0(012	34	45	27	68	000	416	6 0	776	1	469	1											
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			ST	υ	1300	2	-00	000	34	46	27	69	000	401	<u>ه</u> و	017	14	4/03	s											
			ST	U	1400	J	-00	J12	34	46	27	70	000	590	4 0	856	10	4714	4											
			ST	D _	1500)	-00	025	34	46	27	70	000	378	9 0	895	1	472	2											
	104	•	085	T	1504	÷	-00	025	34	462	27	71					1	4726	5											
			ST	D	1750)	-00	31	34	47	27	71	000	362	0 0	788	1	476	2											
			ST	0	2000	2	-00	J 38	34	47	27	72	000	352	0 1	077	14	480	2											
	104	۱.	085	T	2008	3	-00	038	34	473	27	72					1	4806	5											
	104	•	085	Т	2193	3	-00	039	34	473	27	72					14	4838	В											

REFERENCE	T - T		1	-			DEN			TARE		1	ORIGIN	ATOR'S		00110	MA	.X.	w	AVE	WEA	Cu	0110		T	1000	
	SHIP	LATITUC	e i	ONGITUDE	ΞŪ	sou	ARE	310	(GMT)	in the	YEAR	CRUIS	1	TATION		TO	DEP	TH OF	SER	VATIONS	THER	co	2300			STATIO	N
CODE NO.	COOE	•	1/10	1/10	Δĭ	10*	Tit	MO	DAY	18.1/10		NO.		UMBER		BOTTO	M S'MP	L'S DIR	H	GT PER SE	COOF	TYPE	AM	7		NUMB	ER
							1 - 1	_					1					<u> </u>	1								
311529	151	72315	in I a	63595W		259	23	08	<u>25 </u>	140	1969	<u>i Mes</u>	02	3		222		1.36	L C	121	1 X7	16	18	1	1	002	31
							~~~	TER .	+	I SPEED	- 8A	10- H	AIR 121		VIS.	NO.	s	PECIAL									
							COLOR	TRANS (m)	DIR.	OR	(mb	ER B)	DRY	9018	000	DEPTH	IS OBSE	RVATION 5									
									+	FORC					+		-										
		· · · ·						<u> </u>	36	1511	03		15	010	17	17		- <u>-</u>	1								
	MESSENGE	CAST	CARD	DOM: N	- 1		***		•/	1		SPECIF	ς νοιυ	ME S	∆ D	S	OUND	Deal	,	PO4-P	TOTAL-P	NO2	-N	N03-N	5104-	Si	
	TIME	M ND.	TYPE	DEPTH 0	n i	1 '	C	,	·••	1 210	MA-I	ANO/	AALY-X1	07 0	x 10 ³	.   VE	LOCITY	02 mi/	"	/•• - ¢ب	µg - 01/l	μg -	at/l	yg - o1/1	vg - al	/1 8	H C
	HK 1710	+ +				+		+	-			1				+		1	-+				-				-
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			STD	0000	)	0	256	27	96	22	33	005	510	5 0	000	14	4512										
	140	)	08S	0000	)	0	256	27	959	22	33					- 14	4512										
			STD	0010	)	-00	083	32	12	25	84	002	167	0 0	038	14	4416										
	140	)	08S	0010	)	-00	083	32	122	25	84					14	4416										
	140	)	085	0019	)	-0	122	32	560	26	21					14	4405										
			STO	0020	)	-0	127	32	59	26	23	001	794	60	058	14	4404										
	140	)	085	0029	,	-0	164	32	818	26	43					14	4391										
			STD	0030	)	-0	169	32	84	26	44	001	591	70	075	14	4389										
	140	i i i	085	0048	3	-02	222	33	181	26	73					14	4372										
			STO	0050	)	-0;	215	33	20	26	74	001	304	40	104	- 14	4375										
	140		08s	0072	2	-0	167	33	333	26	84					14	4404										
			STD	0075	ò	-03	167	33	35	26	86	001	197	1 0	135	14	4405										
	140		085	0096	ò	-0	163	33	439	26	93					14	4411										
			STD	0100	)	-0	162	33	45	26	94	001	119	80	164	1	4413										
			STD	0125	i	-0	155	33	55	27	02	001	.043	40	191	14	4421										
	140	1	085	0145	•	-0	149	33	625	27	'08					14	4429										
			STD	0150	)	-0	140	33	64	27	08	000	977	30	217	14	4434										
	140		085	0192	2	-00	067	33	798	27	19					- 14	4477										
			STO	0200	)	-00	056	33	83	27	21	000	862	0 0	263	14	4484										
			STD	0250	)	00	008	34	00	27	32	000	763	60	303	- 14	4524										
			STD	0300	)	00	063	34	15	27	41	000	682	40	339	14	4559										
	140	l .	085	0384	ł.			34	349																		
			STD	0400	)	0	143	34	38	27	54	000	566	90	402	14	4615										
			STD	0500	)	0	185	34	50	27	60	000	1514	1 0	456	14	4652										
	140		08S	T0576	5	0	192	34	555	27	64					1	4668										
			STD	0600	)	0	180	34	55	27	65	000	476	20	505	- 14	4667										
			STD	0700	)	0	134	34	53	27	67	000	455	20	552	14	4663										
	140	l .	08S	T0776	5	0	104	34	518	27	68					14	4662										
			STD	0800	)	00	095	34	51	27	68	000	440	1 0	597	14	4662										
			STD	0900	)	00	064	34	49	27	68	000	431	20	640	14	4665										
	140	1	08S	T0970	)	00	046	34	483	27	68					14	4668										
			STD	1000	)	00	041	34	49	27	69	000	413	30	683	14	4671										
			STO	1100	)	0(	025	34	49	27	70	000	400	60	723	14	4681										
	140	1	085	T1171	1	00	014	34	497	27	71					14	4688										
			STD	1200	)	00	010	34	50	27	72	000	383	60	762	14	4691										
			STD	1300	)	-0	004	34	49	27	72	000	376	0 0	800	14	4701										
			STD	1400	)	-0	016	34	48	27	72	000	369	50	838	14	4713										
	150	)	085	T146]	L	-0	022	34	481	27	72					14	4720										
			STD	1500	)	-00	024	34	48	27	72	000	363	8 0	874	14	4726										
			STD	1750	)	-00	034	34	48	27	73	000	349	20	963	14	4764										
	150	)	08s	T1958	3	-0	038	34	487	27	73					14	4798										
			STD	2000	)	-0	038	34	49	27	73	000	337	1 1	049	1	4805										
	150	)	085	T2175	5	-01	039	34	493	27	74					14	4835										

REFEREN	NCE				-		SOEN	STATIO	N TIM	E			RIGIN	ATOR'S		DEPTH	MAX.		WAVE	WE	A	CLOUO			NORG	
CTRY	10.	COOE	LATITUDE	10	INGITUOL	SOL	IARE	(G	MTI		YEAR	CRUISE	S	TATION		TO	OEPTH	OBS	ERVATION	THI		CODES			STATION	
	10.		//	10	1/10	- 10*	1.	MO 0A	Y HR.	1/10		NO,	~	UMBER			S"MPL"S	DUL	HGT PER 3	EA CO	1	TPE AM1			NUMBER	
3119	529	1S	72570N	1   06	64285W	259	124	08 2	5 119	20 1	969	WGS	02	4		2100	L	ا. مع	oxi	X	7	6 8	Į		0024	
							COLOR	TRANE		SPEED	BARO	?: ├-^	IR TEA	WET	VIS.	NO. 085.	SPEC	IAL								
							COOF	im)	ויינ	OR FORCE	(mbs	วิ   สไ	ULE	BULS	CODE	DEPTHS	ORZENA	AIIONS								
									34 3	515	03	4 0	16	015	7	17										
	- 1	MESSEHGR	CAST (					<u> </u>			1 2 2	CHECKIC			A 0	1.0				1					1	Ť,
		TIME	Ϋ́NO.	TYPE	DEPTH (m)	Т	5	5.	·	SIGM	A-T	ANOM	ALT-21	;; o	(N. M.	. VELO		02 ml/i	PO4=P 20 - 01/1	TOTAL-	-9 N /1 µ1	0 2 - 01/1	NOg – N va - ot/t	SIO4-1 µg-01/	рн	, c
		MK 1/10	┼──┼─					i –	- 1										+	ł	+					Ŧ
	1		1	CTD.	0000	<u>ا</u>	222	2086	, '	220	0	004	0.20	۰ ً م	000	1.	6 2 2 I		I	1	I				1	I
		190	0	IRS IN	0000	0	223	2981	, 78	238	9	004	020	0 0	000	14	523									
		1/0	, <b>u</b>	STD	0010	-0	057	3242	2	260	7	001	951(	0 0	030	14	432									
		190	0	BS	0010	-0	057	3241	.5	260	7					14	432									
				STD	0020	-0	151	3299	)	265	6	0014	4830	5 0	047	14	398									
		190	0	BS	0020	-0	151	3298	17	265	6					14	398									
		190	) 0	BS	0029	-0	168	3323	34	267	6					14	395									
				STU	0030	-0	168	3325	•	267	8	001	2768	B 00	061	14	395									
		100		SIU	0050	-0	173	2341	2	269	1	001	149(	5 01	182	14	398									
		190	, õ	BS .	0070	-0	176	3346		269	5					14	290 401									
		170	, v	STD	0075	-0	176	3347	,	269	6	001	1023	7 0.	113	14	402									
		190	0	BS	0098	-0	176	3350	1	269	8					14	406									
				STD	0100	-0	175	3351		269	9	0010	0704	4 0	140	14	407									
				STD	0125	-0	162	3358	1	270	4	0010	0184	+ 0	167	14	419									
		190	0	BS	0147	-0	150	3365	0	271	0					144	429									
		100		STD	0150	-0	144	3366	_	271	0	0009	9607	7 0	191	14	432									
		190	0	85	0196	-0	050	3381	1	272	0	000				144	483									
				STD	0200	-0	099	3404		272	1 6	0000	7731	1 02	221	144	400 516									
				STD	0300	0	031	3421		274	7	0000	5174	0	310	149	546									
		190	0	BS	0389	•		3444	8						- •											
				STD	0400	0	115	3447		276	3	0004	782	2 03	365	140	504									
				STD	0500	0	199	3459	•	276	7	0004	+589	9 04	+12	140	660									
		190	0	BS	T0584	0.	270	3464	1	276	5					14	705									
				SID	0600	0	252	3463		276	ל	0004	+821		+59	14	700									
		190	0	AC	0700	0	104	3457	3	276	8	0004	+445	<i>y</i> 0.	05	140	614									
		170	Ŭ.	STD	0800	ŏ	098	3453		276	9	0004	276	5 05	549	140	664									
				STD	0900	Ő	071	3450		276	8	0004	294	• 0	92	146	568									
		190	0	BS	10979	0	053	3448	4	276	8					146	573									
				STD	1000	0	349	3448		276	8	0004	+273	3 06	534	146	575									
				STD	1100	0	031	3448	_	276	9	0004	129	9 06	576	146	583									
		190	0	BS	11187	00	017	3447	5	276	9					146	592									
				510	1200	_00	212	2448		211	0	0004	1034		11(	140	702									
				STD	1400	-00	015	3448		277	1	0001	3770	, 0 , 0	95	14	713									
		199	01	BS	T1417	-00	017	3447	5	277	1	500.				14	715									
			-	STD	1500	-00	26	3448		277	2	0003	8628	3 08	32	147	725									
				STD	1750	-00	043	3448		277	3	0003	8441	09	21	14	760									
		199	01	85	T1932	-0(	045	3448	4	277	3					147	790									
				STD	2000	-00	043																			
		199	01	5	12078	-00	J40																			

REFERENCE						. 2	MAR	DEN	STA	ION T	IME		T	ORIGIN	ATOR'S		OEP	PTH	MAX.		WAVE		WEA-	CLOUD		Í	NOOC	
CTRY IO.	SHIP	LATITUO	DE	LONG	สายเป็น	E DO	sou	ARE		GMTI		YE AR	CRUISE	S	TATION		T	ro	OF	085	RVATION	2	THER	CODES			STATION	
CODE NO.	0001	·	1/10	•	1/10	Ξ.	10°	1.	MÖ	DAY	R.1/10		NO.	1 1	UMBER		1011	10M	S'M PL'S	DIR	H GT PER	SEA	000	TYPE AM	I		NUMBER	
	1.0	70044		<u></u>	50011		250	24	~~ l		727	1060	Was	02	6		215	86		00	o x l		X8	6 9			0025	
311529	151	7324	5 1 1	064	580%		209	134 WA	TER L		VINO	1303	TWOS	AIR TE!	NP. C	T 1		0.01	1		V IA I			0.7		'	0022	
								COLOR	TRANS	0.0	SPEE	MET	ER	ORY	WET		08	85.	SPEC	TIONS								
								CODE	(m)	OIL	FORC	E (mb		ULB	9UL8		DEP	THS										
									1	34	SOF	50	0 0	31	025	7	1.	7										
	<u> </u>	1 - 1					1		4	1.74	1300	, , , ,				1.	-r-	•				T					1	T.
	MESSENGI	CAST	CAR	0	OEPTH (#	n )	1	r	s	•/	sig	MA-T	SPECIFIC	C VOLU	ME ∄	YN. M		SOUL	NO	0 2 mi/l	PO4-P	10	OTAL-7	NO2-N	NO3-N	SI O4-	Si pH	č
	HR 1/10	I NU.	1 1 1											ALIEAT	°	x 10 ³		VELO	CIT		µg • at/	' '	- ai/i	g - ar/1 - ور	yg - ot/l ور	µg - 01	/I	c
																											1	
	I		c١	'n	0000		່ດ	261	30	15	24	08	003	847	ຄ່ວ	٥٥٥	<u>'</u> ;	145	43									
	22-	,	OBS		0000		õ	261	30	150	24	08	005	••••	•		1	145	43									
	23	r	ст ст	'n	0010		-0	048	32	46	26	10	001	916	7 0	029	1	144	37									
	22.	7	080	Č,	0010		-0	040	32	464	26	10					1	144	37									
	23	1	о 0 3 с т	'n	0020		_0	138	33	10-	26	64	001	407	8 0	045	1	144	05									
	22.	7	080		0020		_0	143	23	132	26	67	001		• •		i	144	04									
	25	1	5000	n	0030		-0	152	33	30	26	81	001	242	3 0	059	i	144	03									
	23	7	OBS		0031		-0	153	33	317	26	83					1	144	03									
	27	•	ST	n	0050		-0	168	33	42	26	91	001	144	8 0	083		144	01									
	23	7	OBS	-	0052		- 0	169	33	425	26	92					1	144	01									
		•	ST	D	0075		-0	166	33	47	26	95	001	105	1 0	111	1	144	07									
	23	7	OBS		0078		-0	165	33	+80	26	96					1	144	80									
			ST	D	0100		-0	161	33	54	27	01	001	051	0 0	138	1	144	14									
	23	7	085	,	0104	,	-0	158	33	554	27	02					1	144	16									
		•	ST	D	0125		-0	126	33	54	27	08	000	983	2 0	163	1	144	36									
			ST	D	0150	1	-0	071	33	75	27	15	000	918	3 0	187	1	144	68									
	23	7	OBS		0155		-0	058	33	775	27	17					1	144	75									
		•	ST	D	0200		0	103	34	20	27	28	000	806	0 0	230	1	145	59									
	23	7	085	,	0207	r	0	125	34	048	27	29					1	145	71									
			ST	D	0250		0	130	34	15	27	36	000	726	80	268	1	145	81									
			ST	D	0300	1	0	135	34	26	27	45	000	648	80	303	1	145	93									
			ST	D	0400		0	146	34	42	27	57	000	539	0 0	362	1	146	17									
	23	7	OBS	,	0415	,			34	442																		
			ST	D	0500		0	157	34	51	27	63	000	483	1 0	413	1	146	40									
			ST	D	0600	)	0	168	34	55	27	66	000	465	50	461	1	146	62									
	23	7	OBS	i	10622	2	0	170	34	553	27	66					1	146	66									
			51	D	0700	)	0	141	34	54	27	67	000	453	6 0	507	]	146	66									
			ST	D	0800	)	0	106	34	52	27	68	000	441	7 0	>51	3	146	67									
	23	7	085	_	0832		0	095	- 34	516	27	68					1	146	68									
			ST	D	0900	)	0	072	34	50	24	69	000	427	2 0	595	1	146	69									
			ST	D	1000	)	0	043	34	49	27	69	000	417	z 0	637	1	146	12									
	23	7	085	_	11040	)	0	034	34	480	27	69			~ ~	<	1	146	75									
			ST	0	1100		0	025	- 34	48	21	69	000	408	0 0	6/8 790		146	81									
		_	51	D	1200	2	0		34	+8	21	70	000	396	4 0	118	1	146	91									
	23	1	085	_	11248		0	005	34	480	21	70				7	1	146	97									
			ST	D	1300		-01	100	34	+8	27	(1	000	284	5 0	157	1	147	03									
			51	0	1400		~0		34	+9	21	12	000	211	y 0	195		141	14									
	24	,	51	U	1200		-01	024	24	49 . o o	21	13	000	228	ο U	2 و ت		147	20									
	244	•	085	<b>n</b>	1760		-01	024	24	+88 10	21	13	000	34.2	o o	920		14/ 1/7	65									
			21	'n	2000		-01	0.00	34	+ <del>7</del>	21	74	000	376	7 U 2 1	×20	1	14/ 140	0.9									
	244		089	5	T2000		-01	042	34	500	21	74	000	-20	<u>د</u> ۱	005	1	140 140	05									
	244		080		12409		-01	130	34	500	21	7.4					1	140	22									
	244	•	005		12102		-01	0 0 7		.00	<i>c</i> 1	1.44						T # 0	00									

REFERENCE	NCE SHIP LATITUGE L			MARSOEN	STATION	TIME		ORIGIN	ATOR'S		DEBTH	MAX	-	WAYE				_			
CTAY IO.	COOF	LATITU	OE	LONGITUDE	SQUARE	(GM1	1	YEAR	CRUISE	STATION		TO	DEPTH	08	SERVATION		R CO	DES		s	100C
	+		1/10	1/10	10. 1.	MO CAY	HR.1/10		NO.	NUMBER		BUTTOM	S'MPL	S DIR.	HGT PER	SEA COL	DE TYPE	AMT		N	UMBER
311529	9 1 S I	7348	7N   0	65295W	259 35	08 26	043 1	969	WGS 02	6		2195		00	o x	x	2 6	8			0026
					w/	ATER	WINO	BARO	AIR TE	MP. C		NO.	( PC	CIAL				•••		4	00201
					COLO	R TRANS. OIR	- OR	METE	R ORY	WET	COD	OBS. DEPTHS	OBSERV	ATIONS							
							PORCE	1		0008	+										
		T T				22	1510	1055	9 029	020	7										
	TIME	UCAST OND.	CARD	OEPTH (m)	י ד ש	s •4.	SIGM	A-T	SPECIFIC VOLU	MI		sou	би	tha m!∕i	PO 4-P	TOTAL	NO2	-N 1	NO3-N	SI O 4 SI	
	HR 1/10								ANOMALT-I		x 10 ³	. VELC	CITY	<b>Q</b> 2 (0.01)	yg • 01∕	راه - ونيا ا	1 49 - 0	1/1	µg • o1/l	µg • al/	PH
		1 1						T								-		-			
			STD	0000	0338	3049	242	9	003646	1 ່ 0	000	149	581 '	827	1	1	1	I	1		1
	043	3	OBS	0000	0338	30493	242	9				149	581	827							
			STD	0010	-0052	3266	262	6	001768	2 0	027	144	438	1041							
	043	3	OBS	0010	-0052	32656	262	6				144	438	1041							
			STD	0020	-0102	3322	267	3	001321	6 0	043	144	424	970							
	043	5	OBS	0020	-0102	33216	267	3				144	+24	970							
			STO	0030	-0161	3337	268	7	001190	1 00	055	144	+00	818							
	043	1	OBS	0030	-0161	33365	268	7				144	+00	818							
	0.4		STU	0050	-0165	3348	269	6	001101	7 00	078	144	+03	803							
	043	)	UBS	0050	-0165	33477	269	6				144	+03	803							
	043		SIU	0075	-0174	3352	2700	0	001065	5 0	105	144	+04	798							
	043		005	0075	-0174	33519	2700	0				144	+04	798							
	0.63		ORC	0100	-0158	3357	270	3	001030	3 0.	131	144	16	791							
	043		005 CTD	0100	-0158	33568	270	3				144	16	791							
			510	0120	-0128	3304	2701	8	0009820	6 01	156	144	35	744							
	043		OBS	0150	-0087	23726	2713	2	0009220	5 0.	180	144	60	704							
	0.5		STD	0200	0024	2307	271		000700			144	160	104							
	043		OBS	0200	0024	33046	2720		0007980	6 U4	423	140	23	649							
	* . ,		STD	0250	0063	3411	272	7	0007126	= 0'	261	140	23	649							
			STD	0300	0095	3423	2744	5	0006622	1 02	201	140	.75	629							
			STD	0400	0135	3441	275	7	000043	5 03	354	142	12	5 9 2							
	043		085	T0400	0135	34409	275	7	000000			140	12	502							
			STD	0500	0133	3447	2762	2	000494	1 04	06	146	29	564							
			STD	0600	0122	3450	2765	5	000466	1 04	54	146	41	548							
	043		OBS	T0600	0122	34499	2765	5			-	146	41	548							
			STD	0700	0096	3450	2766	5	0004497	7 05	00	146	46	534							
			STD	0800	0073	3449	2768	3	0004359	9 05	44	146	52	520							
	043		OBS	10803	0072	34492	2768	3				146	52	520							
			STD	0900	0054	3448	2768	3	0004306	5 05	87	146	60	515							
			STD	1000	0035	3448	2769	)	0004162	2 06	29	146	68	510							
	043		UBS	11001	0035	34476	2769	?				146	68	510							
			510	1100	0021	3447	2769	2	0004093	06	71	146	79	471							
	042		STU	1200	0009	3447	2770	) (	0004014	07	11	146	90	441							
	043		UBS	11206	0008	34471	2770	)				146	91	439							
			510	1400	0003	3448	2771	. (	0003896	07	51	147	05	427							
			510	1400	-0002	3448	2771	. 1	0003847	07	90	147	19	415							
	051			1500	-0006	3448	2771	. (	0003797	08	28	147	34	402							
	0.71		CUS CTR	1760	_0010	34484	27-2				-			402							
	051		OBS	1907	-0019	3449	2112	: (	0003616	09	20	147	71	366							
	~~1		STD	2000	-0033	34489	2772		0003400		~ ~	140	~~	344							
	051		DBS	T2165	-0039	34500	2113	. (	0005439	10	09	148	08	344							
	0 - 1			12102	-0059	24200	2114					148	33	337							

REFERENCE	SHIP CODE		10		MARS SQUA	DEN ARE	STATION IGMI	TIME	YEAR	OR CRUISE ND,	IGINATI STA	DR'S TION MRER	-	DEPTH TO ROTTOM	MAX DEPTH DF S'MPI	085		WEA THER CODE	CLOUD	7		NODC STATION NUMBER	
	++																			1			
311529	15	73555N	06	64150W	259	34 (	28 26	080	1969	WGS	027	¥ 1	4	2850		1 25	1   2	X2	618	1		00271	
					ł	0108	70.0.0	SPEED	- BAR			NET	VIS.	NO. OBS.	SPE	CIAL							
						CODE		PORCI	Imbi	ລິ ໜີ	8 8	ບໃສ		DEPTHS	OBJEK	AIIONS							
					T I		22	505	07	0 02	8 0	18 -	,	15									
		1 1		1			144	1000	1.0.1	7 1 02			<u> </u>			!	1	T				1	T
	TIME	LCAST C	TYPE	DEPTH (m)	1	٣	s •4.	SIG	MA-T	ANOMAL	OLUME	DYN.	. M.	SOU VELC		03 m1/1	PO4-P	TOTAL-P	N02-N	N03-N	SI 04-5	ρH	ļ
	HR 1/10							_				X 1	01				50 - 01/1	10 - 01/1		1/10 - 01/1	pg - 61/	<u>' </u>	1
															- 1								1
			STD	0000	02	266	3001	23	96	0039	569	000	00	145	544	854							
	080	0	BS	0000	02	266	30011	23	96					145	544	854							
			STD	0010	-00	18	3289	26	44	0015	995	002	28	144	+57	1017							
	080	0	BS	0010	-00	18	32894	26	44					144	+57	1017							
			STO	0020	-01	.06	3323	26	75	0013	073	004	+2	144	+23	949							
	080	0	BS	0020	-01	.06	33233	26	75					144	+23	949							
			STD	0030	-01	.30	3324	26	76	0012	957	005	55	144	+13	848							
	080	0	BS	0030	-01	30	33238	26	76					144	+13	848							
			STO	0050	-01	19	3344	26	92	0011	429	008	30	144	+24	773							
	080	0	BS	0050	-01	.19	33440	26	92					144	424	773							
		~	STO	0075	-01	63	3350	26	98	0010	844	010	8(	144	+09	770							
	080	0	BS	0075	-01	63	33498	26	98			. 1 .		144	409	770							
			STU	0100	-01	68	3355	27	02	0010	415	013	54	144	+11	765							
	080	0	85	0100	-01	.68	33550	27	02	0000	0.07	016		144	+11	765							
			510	0125	-00	190	2277	27	16	0009	220	015	27	144	+99 .00	(1)							
	0.00	0	510	0150	~00	20	33776	21	15	0009	220	010	20	144	+00	674							
	080	0	CD CTD	0191	-00	20	3309	27	10	0008	000	027		144	+07	610							
	0.80	0	Rc	0200	00	140	33087	27	20	0000	000	022	. 0	142	534	624							
	000	0	0.3 C T D	0250	01	23	3418	27	20	0006	004	026		14-	570	508							
			STD	0300	01	82	3434	27	48	0000	212	020	7	146	515	593							
	080	0	RS	T0300	01	82	34344	27	48	00000		·		146	15	583							
	000		STD	0400	02	40	3455	27	40 60	0005	201	039	4	140	60	582							
	080	0	BS	10401	02	41	34554	27	60					146	561	582							
		-	STD	0500	02	27	3458	27	63	0004	939	040	)5	146	571	567							
	080	0	BS	T0503	02	26	34577	27	63					146	71	566							
			STD	0600	01	88	3457	27	66	00040	582	045	53	146	571	556							
	080	0	BS	T0605	01	86	34570	27	66		-			146	571	555							
			STD	0700	01	37	3454	27	67	0004	502	049	9	146	65	530							
		:	STD	0800	00	70	3450	27	68	0004	275	054	+2	146	551	503							
	080	0	BS	T0806	00	65	34498	27	69					146	50	501							
	080	0	BS	T0825	00	50	34490	27	69					146	46	481							

REFERI	INCE	C1/10				L #	MAR	DEN	STATION	TIME		(	RIGINA	TOR'S		OEPTH	MAX		WAVE	WEA-	CLOUO			NODC	1
CTRY	10.	CODE	LATITU	DE	LONGIT	UDE BO	sou	ARE	IG M	1)	YEAR	CRUISE	51	ATION		TO	OF	08	SERVA TIONS	THER	CODES		S	TATION	
CODE	NO,		·	1/10		'1/10 =	10*	1.	MO OAY	HR,1/10	0	NO.	N	UMBER			S'MPL	S DIR	HGTPERS	A 0000	TYPE AM				1
311	529	15	7403	on I	0631	oowl	259	43	08 26	106	1969	WGS	028	3		0723		25	1 2	X 2	6 8			0028	1
	227							WAT	ER	WIND	BAR	0- 4	IR TEM	P. °C		NO.	SPE	CIAL							
								COLOR	TRANS. O	R. OF	ED MET	ER C	DRY	WET	COD	OBS.	OBSER	ATIONS							
								CODE	sm)	FOR	CE (MD	1) 8	J L H	BOLS	+										
									2	2 50	8 10	3 0	28	018	7	15									
		MESSENGE	CAST	CAS		_						SPECIFIC	VOLUA	. 1 2	ΔD	50	ם אוו		PO -P	TOTAL	NONEN	NON	5105		5
		TIME	NO.	TYP	νε Γ	DEPTH (m)	T	C	\$	- SI	GMA-T	ANOM	ALT-110	, 0	rn, M c 10 ³	VEL	OCITY	O2 m1/	yg = 81/l	µg • 01/1	ug = 01/1	µg - ot/l	µg = 01/	1 PH	c
		HR 1/10					+			-+-						-+									+
		1							I _															1	I
				S	r D	0000	0	464	3045	2	413	003	7938	8 0	000	14	634	768							
		106		OBS	5_	0000	0	464	3044	5 2	413					14	634	768							
		_		S	го	0010	0	029	3288	2	640	001	6314	0	027	14	478	988							
		106		089	5	0010	0	029	3288	0 2	640					14	4/8	988							
		106		083	5	0019	-0	065	3219	9 2	670	001	2260			14	441	960							
				5		0020	-0	175	2220	. 2	672	001	לכנכ	0	042	14	420	951							
		106		0.05		0028	-0	121	2221	4 2	601	0.01	24.03	0	166	14	415	970							
		201		0.0	10	0030	-0	151	2220	1 2	602 400	001	2402		000	14	414	704							
		106		UBS	> -	0047	-0	154	22/0	1 2	600	0.01	1424	0	070	14	407	702							
				- 5		0050	-0	154	2340	. 2	605	001	1030	0	017	14	407	776							
		106		085		0070	-0	154	2340	4 2	695	001	1000	0	107	14	411	771							
		104		0.00	-	0075	-0	1 2 7	2261	a 2	6095	001	1090		101	14	420	760							
		106		003		0093	-0	121	2354	2	701	001	0520	0	124	14	467	722							
				5		0125	-0	102	3370	2	700	001	0776	0	160	14	494	680							
		104		0.80	: т	0125	-0	022	3375	2 2	712	000	,,,,		100	14	404	663							
		106		003 c1	n i	0150	0	126	3382	2 2	716	000	9114	0	183	14	513	650							
		104		080	-	0101	0	075	3305	7 2	724	000		, v	.05	14	543	626							
		100		S1	, ,	0200	ő	199	3403	2	729	000	7958	0	226	14	557	617							
				51	r D	0250	0	154	3419	2	738	000	7143	0	264	14	593	598							
		106		OB	5	0274	ŏ	177	3426	4 2	742				•••	14	608	591							
		100		SI	a	0300	Ő	206	3434	2	746	000	6436	0	298	14	626	588							
		106		OB	5	0369	ō	247	3449	0 2	755					14	657	578							
		100		SI	D	0400	0	237	3452	2	758	000	5396	0	357	14	658	570							
		106		085	S T	0463	0	220	3455	1 2	762					14	662	559							
				SI	r D	0500	0	218	3455	2	762	000	5023	0	409	14	667	559							
		106		OBS	5 T	0559	0	198	3456	0 2	764					14	668	553							
				\$1	D	06 00	0	166	3455	2	766	000	4642	0	457	14	661	543							
		106		OBS	5 Т	0658	0	121	3452	6 2	767					14	650	524							
		106		OBS	5 Т	0678	0	106	3451	6 2	767					14	647	516							
REFER	INCE			1		. =	MAR		STATION	TIME	1	1	RIGINA	TOR'S		DEPTH	MAX		WAVE	WFA	CLOUD			NODC	1
CTRY	ID.	SNIP	LATITU	DE	LONGIT	UDE 120	sou	ARE	(G M	1)	YEAR	CRUISE	5	ATION		TO	OEPTH	V OB	SERVATIONS	THER	CODES		- I -	STATION	
CODE	NO.	0000	*	1/10	•	1/10	10*	1 1.	MO DAY	HR.1/1	0	NO,	N	UMBER		BOTTON	A S'MPL	S DIR	HGT PER S	CODE	TYPE AM	T	1	NUMBER	1

CTRY	ID.	CODE	LATITU		UNGHUDE BO	300	~~~	100		TEAK	CRUIS	E	TATIO	y	10 801104	A OF	083	SERVAIIL	114.5	CODE	000	63	ST N	LAARER	
.001	NU.			1/10	1/10 -	10*	1.	MO DA	(HR.1/1)	0	I NO.	+'	UMBE	R		5'M91	S DIR	H GT PER	SEA		TYPE A	MT			
31	1529	1 S	7407	5N 0	62080W	259	42	08 26	128	196	9 WG:	5 02	9		0625		26	0 2		X2	6	8		0029	
							WA	TER	WIND	BA	RO	AIR TE	ир. С	VIS.	NO.	SP	ECIAL								
							COLOR	TRANS. D	IR. OI		TER	ORY	W ET	COD	DEPTHS	OBSER	VATIONS								
							COOL		FOR	CL					-										
								2	2 51	0 0	98	28	02:	1 7	15										
		MESSENG	CAST	CARD			÷-			- · · · ·	SPECIF	IC VOLU	ME .	≨ ∆ 0	50	UND	014	PO4-	-P 1	OTAL-P	NO2-1	NO3-N	SIO4-SI		5
		11ME	Ϋ́ΝΟ.	TYPE	OFFIC (M)	1	Ç	1	* 21	GMA-I	ANO	MALT-I	o7	x 10 ³	" VEL	OCITY	0 2 mi/i	20-0	171	µg = α1/l	ug = ati	1 µg = 01/	µg − ot/l	pМ	6
						+		1			1							+	+			-	+		+
		l I	1 1		1 0000	1 0.	277	2026	1.2	407	00	2852	5 ' (	000	÷14	605	706	1		1					1
			•	000	0000	0	211	2020	2 2	407	00	5052	· · ·	0000	14	505	706								
		12	3	510	0010	-0	037	3293	2 2	648	0.0	1564	2 (	1027	14	449	977								
		12	-	085	0010	-0	041	3306	4 2	660	000		-		14	440	905								
		120	5	STD	0020	-0	134	3323	2 2	675	0.0	1302	9 (	0041	14	409	804								
		12	3	085	0020	-0	134	3322	8 2	675					14	409	804								
			5	STD	0030	-0	134	3328	2	679	00	1262	4 (	0054	14	412	792								
		12	3	OBS	0031	-0	134	3328	5 2	680		_			14	412	791								
		-		STD	0050	-0	156	3339	2	689	00	1167	7 (	0079	14	406	798								
		12	3	OBS	0050	-0	156	3339	4 2	689					14	406	798								
				STD	0075	-0	151	3348	2	696	00	1103	6 (	0107	14	414	789								
		12	3	OBS	0076	-0	151	3348	0 2	696					14	414	788								
				STD	0100	-0	154	3353	2	700	00	1060	6 (	0134	14	417	756								
		12	3	085	0101	-0	154	3353	3 2	700					14	418	754								
				STD	0125	-0	084	3364	2	707	00	0998	1 (	0160	14	456	709								
		12	3	085	T0127	-00	078	3364	7 2	707					14	459	705								
				STD	0150	-0	007	3379	2	715	000	0917	0 0	0184	14	498	662								
		12	8	085	0152	-0	002	3380	4 2	716			_		14	501	659								
			_	STD	0200	0	085	3402	2	729	000	0794	3 (	0226	14	551	616								
		12	8	085	0203	0	090	3402	9 2	729					14	554	614								
				STD	0250	0	151	3419	2	738	00	0713	6 (	1264	14	272	599								
			~	SIU	0300	0	199	3436	2	748	00	1025	1 (	1298	14	620	584								
		12	8	OPS	10301	0	200	3430	0 2	748					14	624	582								
		12	8	003	10599	0	242	2452	2 2	759	0.0	1621	7 (	1366	14	602	501								
		1 3	0	085	T0401	0	242	3454	· 2	762	00	1001	, ,	נירי	· 14	650	548								
		12	0	503	0500	0	203	5454	0 2	103					14	1029	240								
		12	8	085	T0585	ñ	148																		
		12	Я	OBS	0596	ŏ	149																		
		14	9		5290	•	• <del>•</del> /																		

REFER	ENCE	SHIP	LATITUDE	u	ONGITUDE	NDC18	MARS	DEN ARE	STAT	ION T GMT)	IWE	YEA	R		RIGIN	ATOR'S	_	DEPTH TO BOTION		AX. PTH OF	OBS	WA ERVA	VE	WEA- THER CODE	CLOUD			NODC	
COOR	ND.		1/	10	1/10	=	10*	1.	MO	DAY H	R.1/10			NU,	^	UMBER			s.w	PL S	DR	HGT	PER SE	A   0001	TYPE AM	1			
313	1529	15	74140N	0	61010W		259	41	08 2	26	152	196	9	WGS	030	0		0642			21	1	2	X 2	6 8			0030	
								WA	TER	1	NIND		ARO		IR TEA	лР. °С		NO,		SPEC									
								COLOR	TRANS.	DIR.	SPEE	D M	ETER		DRY	WET	coo	DEPTH	OBS S	ERVA	TIONS								
								CODE	1147		FORC	E				5065	+			_									
										22	506	5 11	.29	0	32	024	17_	15							···				
		MESSENG TIME HR 1/10	CAST O	CARD TYPE	DEPTH 6	n}	т	٣	s	•4.	\$10	MA-1		ANOM	VOLU ALY-XI	ΜΕ <b>Σ</b> ]' D	∆ D YN, M X 10 ³	, SC VEL	DCIN		⊃2 ml/l	P V S	04-P - 01/L	101AL-9 µg - of/i	NO2-N µg - 01/i	NÔ3-N µg - at/l	SI 04-9 49 - al/	рН	500
																												1	
		1	' '	570	່ດດດດ		່ດ	444	298	13	27	867		004	238	2່0	000	<b>1</b> 4	618	3	784								•
		15	2 0	85	0000		ŏ	444	296	331	23	367						14	618	3	784								
				STD	0010		0	121	326	5	26	517		001	854	1 0	030	14	517	7	988								
		15	2 0	85	0010		0	121	326	53	26	517						14	517	7	988								
				STD	0020		-00	063	331	4	26	65		001	394	70	047	14	441	1	001								
		15	2 0	BS	0020		-0	063	331	.38	26	65						14	44]	1	001								
				STD	0030		-0	137	332	8 8	26	80		001	259	20	060	14	410	)	840								
		15	2 0	8S	0030		-0	137	332	283	26	80						14	410	)	840								
				STD	0050		-0	145	333	36	26	86		001	195	10	085	14	411	L	806								
		15	20	85	0050		-0	145	333	62	26	86						14	411	Ļ	806								
			-	STD	0075		-0	151	334	+2	26	91		001	1474	40	114	14	413	3	884								
		15	20	BS	0076		-0	151	334	25	26	91			~ ~ ~			14	413	5	88/								
				STD	0100		0.	114	33	1	20	97		001	0880	U U	142	14	430	2	154								
		15	2 0	BS	0101		-0	111	335	12	26	97 105		001	012		1.0	14	430	5	476								
		16		SIU	0125		-01	010	220	67	21	105		001	013	5 V	100	14	40:	,	676								
		15	2 0	63	0120		-0	010	230	21	21	116		000	022	<u>،</u> ،	102	14	517	,	467								
		15	2 0	BS	0150		0	034	338	323	27	116		000	72.).	• •	<b>1</b> 72	14	519	>	656								
		1)	~ <b>·</b>	CT0	0200		0	122	340	17	2	230		000	787	۰ ۵	235	14	572	, i	618								
		15	2 0	85	0200		ŏ	135	340	0.80	27	730		000		<i>,</i> ,		14	575	5	617								
		1.2	2 3	STO	0250		ō	189	342	25	27	740		000	695	70	272	14	609	,	598								
				STD	0300		Ō	772	343	38	27	48		000	626	8 0	305	14	633	3	581								
		15	2 0	BS	0304		0	223	34	888	27	149						14	635	5	580								
				STD	0400		0	209	345	50	2	758		000	5330	60	363	14	646	5	555								
		15	2 0	BS	T0403		0	209	344	199	27	759						14	646	ò	554								
				STD	0500	)	0	217	345	57	27	64		000	489	1 0	414	14	667	1	651								
		15	2 0	BS	T0504		0	217	345	572	27	164						14	1668	3	653								
				STD	0600	•	0	152	349	55	27	67		000	452	30	461	. 14	655	5	649								
		15	20	85	T0608		0	149	345	549	27	767						14	655	ò	649								
		15	2 0	BS	T0633	£	0	141	345	546	27	67						14	655	5	544								

REFERENCE	SHIP	LATITUDE	LON	IGITUDE	NDCTR	MARS	DEN ARE	STATI	DN TI	ME	YEAR		DRIGIN S	A TOR'S		DEPT TO BOTTO	н м,	MAX, DEPTH OF	082	WA ERV/		WI TH CO	ER DE	CLO	U D DES		5	NOOC TATION UMBER	
HU.		1/1	0	-1/10	+	10-	1.	<u></u>	AT 191	K, 17 IU							-l'	,			114 1								
311529	15	74180N	105	9550W	_ I;	258,	49	08 2	6 1	75	1969	WGS	03	1	_	073	2		22	1	X		2	6	8			0031	
						ŀ	WAT	ER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IND	BARC	»-  '	AIR TEA	AP. "C	VIS.	NO.	·	SPEC											
							COLOR	TRANS. Im)	DIR.	DR	(mbs	R (	ULB	BULB	000	DEPT	Hs C	DBSER∨	ATIONS										
						ł				COC	1		4.1	032	-	1 1 6	-†-												
				_				Ļ	14	505	114	9 [ 0	41	033	1	112				T			Т		Т			1	Т
	MESSENGR	CAST	ARO	OFPTH IN	,	ī	°C	l s	·/	SIGA	A-T	SPECIFIC	VOLU	ME D		. 3	SOUN	0	0 2 ml/i	P	04-P	IGTAL	-?	NO2-	N	NO3-N	SI O 4 - SI	PH	S
	HR 1/10	NO.	TYPE		.,		-					ANDM	ALT-I	" -	X 10 ³		ELOC	SITY		1	g = at/i	µg − a	21	hð - 0.		yg - a1/3	µg - ol/!		C
					-				_											Т									
	1	1 1	CTD	0000		0.4	504	306	8	24:	28	003	654	7່ 0	000	່າ	46	54	746										·
	176	0	ac	0000		0.	504	306	82	24	28	000	•			ī	46	54	746										
	175	v	STD	0000		0	00	325	4	260	19	001	928	7 0	028	- ī	45	06	949										
	175	0	85	0010		0	00	325	39	260	29					1	45	06	949										
	115	Ŭ	STD	0020		-00	046	330	9	266	50	001	441	70	045	1	44	48	990										
	175	0	BS	0020		-00	)46	330	85	266	50		_			1	44	48	990										
	2	-	STO	0030		-0	118	332	4	26	75	001	300	70	058	1	44	19	833										
	175	0	85	0030		-0	18	332	36	26	75					1	44	19	833										
		-	STD	0050		-0	37	333	4	268	34	001	214	2 0	084	- 1	44	14	779										
	175	0	BS	0051		-0	138	333	42	268	34					1	44	14	777										
			STD	0075		-00	99	334	6	26	93	001	132	70	113	1	44	38	746										
	175	0	BS	0076		-00	97	334	68	26	93					1	44	39	744										
			STD	0100		-00	016	336	2	270	02	001	043	3 0	140	) 1	44	83	682										
	175	0	BS	0102	!	-00	010	336	28	27(	03					1	44	86	678										
			STD	0125		00	035	337	5	27	10	000	969	7 0	165	5 1	45	12	662										
			STO	0150	1	00	080	338	7	27	17	000	904	7 0	189	9 1	45	38	642										
	175	0	BS	T0152		00	283	338	84	27	18					1	45	40	640										
			STD	0200	•	0	156	341	1	27	31	000	774	8 0	231	. 1	45	84	595										
	175	0	BS	0204	•	0	161	341	28	27	32					. 1	45	87	592										
			STD	0250		0	191	342	6	27	41	000	689	8 0	267	1	46	10	579										
			STD	0300	)	0	212	343	7	27	48	000	626	0 0	300	) <u>1</u>	46	29	565										
	175	0	BS	10305		0	213	343	83	27	49		6.21		200	. 1	46	.0	264										
			STD	0400	)	0	214	345	0	21	58	000	224	4 U	0000	) I 1	40	40	469										
	175	0	85	T0406	2	0.	214	345	04	27	59		1.05			, 1 1	40	49	650										
			STO	0500		0	190	345	3	210	62	000	490	8 0	410	, 1 1	40	55	654										
	175	0	85	(0505		0	187	245	54	21	د ت د د	000		7 0	466		40	41	534										
	170	0	510	70600		0	160	345	4	27	22	000	4/1	/ 0	- 20	1	40	61	530										
	175	0	670	10508		0	104	245	49	21	47	000	451	a n	504	. 1	46	65	519										
	175		SID	T0704		0	128	345	40	21	67	0000	471	, ,		1	46	66	517										
	1/5		03	10700	,	0	135	34	30	27	67					1	46	67	511										
	1/5		03	10721	-	0	100	J.+.		- I																			

REFERENCE CTRY ID. CDDE NO.	SHIP	LATITU	DE		SOU	SDEN ARE		IT NC	IME 1710	YEAR	CRUISE NO.	RIGINA ST	TOR'S ATION JMBER		OEPTI TO BOTTO	H DEP M S'MF	іх, ТН , F	W J OBSERV	A VE /A TIOP	is Sea	WEA- THER CODE	CLDU CODE	5 5		NOOC STATION NUMBE	J . R
311529	15	7429	ON	058470W	258	48 WA COLOR	08 2 TER	6 ) DIR.	98 VIND	1969 BAR MET	WGS	032	P. °C	VIS. COD	034 NO.	2	PECIAL RVATIO	0 0 45	x		X2	6 8			003	2
						CODE	1001		FDIC	E (mb)		010	0010	-		-		_								
							41	14	1505	14	9 0	41	660	11	12					-			- [-	1		
	MESSENGR TIME HR 1/10	CAST NO.	CAP	D DEPTH (m)	1	°C	s	•/	SIG	MA-T	ANDM	VOLUN ALY-X10	1 € 7 D	X 10 ³	·. vi	LOCITY	02 0	ni/1	PO 4-1	1	0 TAL - P yg = 01/l	NO2—N µg - al/	NO3-N VQ - 01/1	51 O4- 99 - 94	-Si pH	
							}										1									ļ
			S1	0000 0	0	469	309	1	24	49	003	4505	0	000	1	4643	79	1								
	198 OE		OBS	5 0000	0	469	309	07	24	49					1	4643	79	1								
	198 OB		S1	D 0010	0	006	328	7	26	41	001	6306	0	025	· 1·	4468	99	3								
	198 OE		089	0010	- 0	006	328	2	20	41	001	3120	0	040	1	4400 4417	99	8								
	198 OE 198 OE		089	0 0020	-0	124	332	42	26	76	001	2123		040	์ <u>เ</u>	4414	87	0								
	196	•	OD: 51	D 0021	-0	142	332	9	26	80	001	2525	0	053	î.	4408	83	ě.								
	198	1	OB	5 0031	-0	143	332	92	26	80			-		- ī.	4408	83	3								
	170	,	S	0050	-ŏ	151	333	6	26	86	001	1951	. 0	077	ī	4408	78	9								
	198	3	OBS	0052	-0	152	333	61	26	86					1	4408	78	6								
			S	ro 0075	-0	134	334	2	26	91	001	1522	0	107	1	4421	76	6								
	198	3	OB:	5 0077	-0	130	334	26	26	91					1	4423	76	3								
			S	rD 0100	-0	056	336	0	27	02	001	0409	0 (	134	1	4464	71	6								
	198	3	OB:	5 0103	-0	046	336	22	27	104					1	4470	71	1								
			S	TD 0125	0	031	336	9	27	06	001	0132	2 0	160	) 1	4510	69	0								
	198	3	OB:	5 T0130	0	044	337	14	27	707					1	4517	68	4								
			S	rð 0150	0	081	338	8	27	18	000	8977	0	184	- 1	4539	65	8								
	198 0		OB:	5 0154	0	087	339	09	27	20					1	4543	65	4								
	170 0		S	TD 0200	0	138	340	6	27	29	000	7997	0	226	1	4575	63	2								
	198	3	08.	S T0207	C	145	340	77	27	30				<b>a</b>	1	4580	62	9								
			S	TD 0250	C	166	341	6	27	135	000	7459	0	265	1	4597	61	8								
			S	TD 0300	C	196	342	8	27	742	000	680	0	300	1	4621	60	1								
	198	3	OB	S T0306	c	200	342	92	27	743					1	4623	59	19								
	19	8	0B	S T0319	C	209	343	28	27	745					1	4630	- 59	)4								

												-				r						1	1	1	I		
REFEREN	CE	SHIP				MAR	SOEN	STATI	DN TI	ME	YFAR		ORIGIN	ATOR'S		DEP	PTH	DEPTH	OBS	WAN SERVA	re Tions	WEA-	CODES		1	STATIO	N
CTRY	0.	COOL	LAINUDE			100	1 10	10 L	A Y	P 1/10	1 Bran		10.	NUMBE	R	BOTT	TOM	OF S'MPL'S	DIR	HGT	PER! SEA	CODE	TYPE A M	1		NUMBE	R
				10		10	++			N. 17 10		+				1.							( )				
3115	529l	1 S	74298	v   05	7470W	258	47	08 2	6 2	225	<u>1969</u>	W	GS 03	3		108	<u>50  </u>			01	X	1 X Z	0.8	1	I	003	10
							WAT	ER			BAP	10-	AIR IL	Mr. C			0.	SPE	CIAL								
							COLOR	TRANS. (m)	DIR.	OR	. 13 M E1	ER 1	BULB	BULB	COD	DEP	THS	OBSERV	ATIONS								
									0.0	ruxci		~	011	0.20		1 1	c										
									00	500	10	24	044	02	10		2			<u> </u>							
	1	MESSENGR	CAST	CARO	0.000	1.	*	, I	,	510		SPE	CIFIC VOLU	IME		2	SOU	ND	0.2 ml/l	80	04-P	TOTAL-P	NO2+N	NO3-N	5104-	-Si	H C
		TIME C	NO.	TYPE	CEPTH (M)	1	C	1 '		1,101	- C	1	NOMALY-X	107	x 10 ³		VELO	CITY	01		- 01/1	r∖to • gu	vg - at/l	48 - ai/l	אם - פע	ezi e	c
		11 17 10				+		<u> </u>		1		+															
	1			•		1		1		1.	6.7	<u>ٰ</u>	02626	۰ ^۱	000	、 ' ·	145	66	863	1		,		1			
				STD	0000	0	362	200	1	24	52	0	0 3420	7 1	0000		145	96	863								
		225	(	285	0000	0	202	220	6	24	62	0	02473	6 (	030	、 ·	146	05	977								
				SID	0010	0	240	220	1.4	25	52	0	02413				146	05	077								
		225	(	JBS	0010	0	540	220	40	20	25	•	01687	2 (	050	n [:]	144	97	1046								
			,	SID	0020	0	061	220	32	20	25	0	01007	2			144	97	1046								
		225		630	0020	0	007	330	8	26	52	0	01517	7 (	0.66	5	145	516	951								
				SIU	0030	Š	0,7,7	230	70	26	62	•	0121.	•			145	516	951								
		225		185	0050	-0	099	233	6	20	80	0	01252	6	0.094	4	144	76	806								
		126	,	310	0050	-0	005	333	54	26	80		01272	Ū		•	144	76	806								
		220		503	00.75	-0	002	335	<u> </u>	26	00	0	01075	2	0123	3	144	87	723								
		225	(	SIV BC	0075	ŏ	002	335	٩ <b>د</b>	26	99	Ũ	01015	-			144	+87	721								
		223	```	STD	0100	ŏ	017	336	ó.	27	06	0	01006	2	0149	9	144	99	694								
		225	(	าตร	0101	ō	018	336	97	27	07	-					145	500	693								
		22)		STD	0125	ō	049	337	8	27	12	0	00954	7 (	0174	4	145	519	662								
				STD	0150	0	071	338	5	27	16	0	00914	4 (	0197	7	145	34	634								
		225	(	DBS	T0153	ō	073	338	63	27	17						145	536	631								
				STD	0200	Ó	086	340	0	27	27	0	00810	1 0	240	<b>)</b>	145	551	590								
		225	(	DBS	0202	0	087	340	05	27	28						145	552	589								
		,		STD	0250	0	125	341	2	27	34	0	00746	2	0279	9	145	579	585								
				STD	0300	0	151	342	2	27	41	0	00690	8	2315	5	146	500	578								
		225		DBS	T0304	0	152	342	24	27	41						146	501	577								
				STD	0400	0	161	343	5	27	50	0	00603	3	3860	C	146	523	551								
		225	(	DBS	T0403	0	161	343	55	27	51						146	523	550								
				STD	0500	0	180	344	7	27	58	0	00535	9	043	7	146	549	545								
		225	. (	DBS	T0501	0	180	344	66	27	58						146	549	545								
				STD	0600	0	191	345	2	27	62	0	00508	1	048	9	146	571	544								
		225	. 1	OBS	10602	0	191	345	24	27	62					_	146	572	544								
				STD	0700	0	195	345	4	27	63	0	00501	1	0539	9	146	590	546								
		225		OBS	T0799	0	198	345	54	27	64			_		_	147	708	548								
				STD	0800	0	198	345	5	27	64	0	00497	7	058	9	147	708	548								
		225	, I	OBS	10831	0	199	345	55	27	64						147	714	550								

CTRY ID. CODE + 1/							MAR	SDEN	\$T	ATION	T1ME			ORIGI	NATO	R*5		DEPTH	DEPTH		WA	VE		WEA-	CLC	UD		1	NOOC	
CTRI	DE NO. CODE + 1/10			IDE	LONGITUDE	Dau		ARE		IGMI	)	YEAR	CRU	SE	STAT	ON		TO	OF	08	25KA	A HON	42	CODE	co	OES			NUMBER	
	4 NO.	- 1		1/10		0 -	- 10°	11.	MO	DAY	HR.1/10		N		NUN	88R			S'MPL'	5 DIR	нG	TPER	SEA		1YPE	AMT		-+		
13	11529	15	7557	ON	060470		259	50	08	27	149	1969	We	s 03	34			0164		00	0	x		X2	4	8			0034	
								WA	TER		WIND	BAR	0.	AIR TE	MP.	r		NO.	505	CIAL										
								COLOR	TRA	NS. OIR	SPEE OF	D MET	ER	DRY	W	ET d	CODE	OBS.	OBSERV	ATIONS	Į									
								CODE	\$.m		FOR		<b>1</b>	BULB	1 80						ł									
										00	500	0 16	8	028	0	21	7	10												_
		MESSENG	CAST	CA	RD		1.			/			SPEC	FIC VOL	UME	\$1	ΔD	sou	UNO			PO4~1	p   r	OTAL-P	NÔ2	-N	NO1-N	51.04-	s.	
			I NO.	TY	PE	(m )	'	L		\$ -7	510	SMA-T	AN	MALY-X	107		1. M. 10 ³	. VELC	CITY	O2 m1/	' ,	g a1,	/1	µg • o1/l	- gu	at/L	µg - α1/l	yg - 01	/i pH	
		1. 1/1		+					+		-+		<del> </del> —								+		+							+
		ł	1	l			1		1		1		1								I		I		1	1		i i	1	1
					TD 000	00	0	192	2	661	2	130	00	6500	15	00	00	14	465	841										
		149 0			5 000	0	0	192	2	0013	2	130	~	25.02	* 1	~~	<i>.</i> c	14	462	1072										
		1.4	~	00	L 001		0	210	2	1771	2	540	υu	2901	1	00	49	14	540 578	1072										
		14	9	00	S 001	20	0	210	2	260	2	624	0.0	1787	· /.	00	47	14	540 484	1072										
		1.6	o	08	s 002	20	0	044	2	2695	2	624	00	1101	-	00	Ů,	14	404	1020										
		14	,	S	τn 002	10	-0	030	3	2002	2	647	00	1565	55	00	84	14	455	927										
		14	0	OB	5 003	10	-0	030	ŝ	2931	2	647		1202		•••	0.4	14	455	927										
		1.1	,	S	TD 00	50	-0	055	3	320	2	670	00	1347	74	01	13	14	451	722										
		14	9	OB	s 009	50	-0	055	3	3202	2	670				-		14	451	722										
			-	S	TD 00	75	-0	038	3	343	2	688	00	1177	76	01	45	14	466	611										
		14	9	OB	s 00 ⁻	75	-0	038	3	3432	2	688						14	466	611										
				S	TO 010	00	-0	012	3	357	2	698	00	1085	66	01	73	14	484	604										
		149 OE		08	s 010	0	-0	012	3	3567	2	698						14	484	604										
	149 00		TD 01;	25	0	017	3	368	2	705	00	1015	57	01	99	14	503	594												
	149 08		S 012	25	0	017	3	3677	2	705						14	503	594												
	14) 00		TD 015	50			3	375										589												
	149 OB		S 01	50			3	3750	)									589												
	149 08			S 01	55			3	3774	,									585											

REFERENCE	SHIP	LATITUDE	E LO		MARSOEN	STATION IG MI	TIME YEAR	ORIGIN	ATOR'S	OEPTH TO	DEPTH OB	WAVE SERVATIONS	WEA THER	CLOUC		5	NODC TATION	
CODE NO.	COOP	• 1	/10	· '1/10 ² ≝	10. 1.	MOLDAY	HR.1/10	NO.	NUMBER	BOTTOM	S'MPL'S DIR	HGTPERS	EA CODE	TYPE AM	T	N	UMBER	
31152	9 15	75450	N 06	1020W	259 51	08 27	198 1969	WGS 03	5	0439	00	0 X	X1	67			0035	
					w,	ATER	WIND BAI	RO- AIR TE	MP. C	NO.	SPECIAL							
					COLO	R TRANS DI	SPEED ME	TER ORY	WET COD	OFPTHS	DESERVATIONS							
					CODE		FORCE	000	5015									
						00	500 14	+9 043	033 7	14								
	MESSENGR	CAST	C ARD TYPE	OEPTH (m)	т°с	5 .4.	SIGMA-T	SPECIFIC VOLU	JME S C O 107 DYN. A	A. SOUN		PO4-P	IOTAL-P µg • ol/l	NO2-N µg - al/l	NO3-N 49 - 01/1	St O 4 - St Pg - at/1	pH	SCC
	HK 1710	+				-+			_					+				+
				!	[			1								1		
			STD	0000	0527	3058	2417	003755	7 0000	) 146	62 750							
	198	1	085	0000	0527	30579	2417			146	62 750							
			STD	0010	0479	3183	2521	002768	4 0033	140	61 886							
	198	; i	OBS	0010	0479	31827	2521	00170/		146	01 880							
			SID	0020	0107	3284	2033	001706	6 0055	> 145	15 1025							
	198		085	0020	0107	32836	2033	001442	1 0071	140	15 1025							
	100		510	0030	-0011	23102	2000	001442	1 0071	144	66 943							
	196		670	0050	-0011	2325	2600	001235	0 0000	144	54 652							
	100			0050	-0054	33363	2082	001255	0 0090	144	54 664							
	190		STO	0075	-0021	3353	2695	001110	3 0127	144	75 629							
	100		nac	0076	-0019	33536	2696	001110	5 0-21	144	76 628							
	170		STD	0100	0021	3367	2704	001023	5 0153	145	01 608							
	100		DBS	0100	0023	33671	2704	001025		145	02 607							
	190		STD	0125	0054	3378	2711	000957	6 0178	145	21 601							
	198		DAS	0127	0057	33786	2712			145	23 600							
	• / (		STD	0150	00.85	3388	2718	000900	1 0201	145	41 593							
	198		085	0152	0087	33892	2719			145	42 592							
			STD	0200	0122	3405	2729	000796	1 0244	145	68 584							
	198		085	T0202	0123	34059	2730			145	69 583							
			STD	0250	0158	3419	2738	000717	2 0282	2 145	94 566							
	198	1	08s	T0254	0160	34200	2738			145	96 564							
			STD	0300	0176	3432	2747	000634	6 0316	146	12 540							
	198	i I	OBS	T0304	0177	34331	2748			146	14 538							
			STD	0400	0197	3442	2753	000580	2 0376	146	40 529							
	198		OBS	T0404	0197	34422	2753			146	40 528							
	198	; I	OBS	0429		34424	•				523							

REFERENC CTRY IO CODE NO	E SHIP COOE	LATITUDE	E LOI			SOEN JARE	STATI	ON TI SMT)	ME	YEAR	CRUISE NO.	DRIGIN/ S'	TOR'S	1	OEPT TO BOTTO	н м	MAX, DEPTH OF	085	WA SERVA	VE TIONS	WEA- THER CODE	CLOU	5		NOOC TATION NUMBER	
+ +				.,	10	+	1410 10	~ []	A. 17 10							ť		Dir.		71 × 30						
3115	29  15	76050	N   06	1500W	259	61	08.12	8 1	56	1969	INCE	036	p Yr		051	2	-	00	101	XI	X1	617	1	1	0036	
						COLOR	TRANS	-	SPEED	- BARO METE		DRY	WET	VIS.	OBS	:  ,										
						CODE	[m]	UIK.	FORCE	(mba	3 8	ULB	BULB		DEPTH	15	///////////////////////////////////////									
								08	\$05	10	5 0	27	006	5 7	14											
	MESSENG TIME HR 1/1	CAST	CARD TYPE	DEPTH (m	F .	r °c	s	·/	SIGA	T-AN	SPECIFIC	ALY-XIC	AE (	€ Δ 0 DYN. M X 10 ³	. <u>s</u>	IOUN ELOC	IO SITY	02 ml/l	۹ پر	04-P   - 01/I	101AL-P µg - at/l	NO2-N µg - nt/	NO3~N µg - ot/l	2 – 20 اک /تو - ویر	рН	
																									1	Т
	•	. ,	STD	0000	. o	127	232	2	18	62	009	0790	Ċ	0000	់រ	43	90 ່									
	15	6	OBS	0000	0	127	232	17	18	62					1	43	90									
			STD	0010	0	077	321	8	251	82	002	1883	. 0	056	1	44	91									
	15	6	08S	0010	0	077	321	82	25	82		_			1	44	91									
			STD	0020	-0	048	328	3	26	40	001	6399	0	075	1	44	44									
	15	6	OBS	0020	- 0	048	328	25	264	40					1	444	44									
			STD	0030	-0	098	330	0	26	56	001	485:		091	1.	44	25									
	15	6	085	0030	-0	098	330	03	26	50		2057			1	44	27									
				0050	-0	065	332	2	20	75	001	305:		1174		444	41									
	15	0	065	0050	-0	065	332	22	20	15		1700		160	1	444	41									
	15	۷	0.85	0075	-0	044	224	27	201	80	001	1103	, t	150	1	441	43									
	15	0	610	0075	-0	0 7 4	226	5	201	00	001	00/16		170	1	· · ·	79									
	15	6	OBS 0	0100	-0	024	335	49	26	77 07	001					77.	78									
		0	STD	0125	0	020	336	8	271	05 05	001	0180		205	- î	451	04									
	15	6	085	0125	õ	020	336	76	270	05					ī	450	04									
		•	STD	0150	õ	041	337	8	27	12	000	9485		229	ī	45	20									
	15	6	OBS	0150	0	041	337	82	27	12					1	45	20									
			STD	0200	0	069	339	1	27	21	000	8677	0	275	1	454	42									
	15	6	OBS	T0203	0	071	339	22	27	22					1	45	44									
			STD	0250	0	104	340	5	27:	30	0.00	7869	0	316	1	45(	68									
	15	6	085	T0250	0	104	340	47	27:	30					1	45(	68									
			STD	0300	0	135	341	8	27:	38	000	7114	, c	1354	1	459	92									
	15	6	OBS	10300	0	135	341	77	27:	38					1	459	92									
	_		STD	0400	0	172	344	2	27	55	000	5566	, C	417	1	46	29									
	15	6	OBS	T0400	0	172	344	24	27	55					1	46	29									
			STD	0500			344	5																		
	15	6	UBS	0500			344	49																		

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

REFERENCE					L F	MAR	SOEN	STA	TION T	IME		1	ORIGIN	ATOP	's	DEPTH	MAX		WA	VE		WEA-	CLOUD	-		NODC	
CTRY ID.	CODE	LATITU	IDE	LONGIT	UDE SQ	sou	ARE		IGMTI		YEAR	CRUIS	E	STATI	DN 050	10 10110/	OF		BSERVA	ATIONS	2	THER CODE	CODES	Į		NUMBER	
CODE NO.			1/10		'1/10 -	10*	1.	MO	DAY	HR.1/10		-		NUM			- S.Whr	S DIR.	HGT	PER 3	-	-					
31816	O WE	7444	ON	0640	50W	259	44	09	21	109	1969	WE	2 00	1		0320	니	00	2 10 1	0		20	16	i	1	0001	I .
							WA	TER	+ '		BAI	0.	AIR TE	MP. "	C VIS.	NO.	SPE	CIAL									
							COLOR	TRAHS [m]	CIR.	FORC	{m1	al I	BULB	BU		DEPTH	S OBSERV	ATIONS	5								
							DT	s	16	\$10	01	2	000	-00	6 7	11			1								
		M CAST	CAI		EPTH (m)	T	'n	s	•/	SIG	MA-T	SPECI	IC VOLU	10 ⁷	₹ △ 0 DYN. M x 10 ³	. SC	LOCITY	O ₂ ml	/1 P	104-P 9 - 01/I	1014 20	A L - P • a1/1	NO2≁N ⊭g - αl/l	NO3-N V9 - 01/l	SIO4S yg - at/	φH	sco
																											П
			' s'	TD	0000	0	085	32	40	25	99	00	2026	4	0000	14	496										
	10	9	OB:	S	0000	0	085	32	400	25	99					14	496										
			S	TD	0010	0	085	32	45	26	03	00	988	1	0020	14	498										
			083	s i	0010	0	085	32	450	26	03					14	498										
			S	TD	0020	0	080	32	55	26	11	00	909	1	0040	14	499										
			083	s i	0020	0	080	32	550	26	11					14	+499										
			S	TD	0030	-0	080	33	18	26	69	00	355	9	0056	14	436										
			OB:	S	0030	-0	080	33	180	26	69			-		14	+436										
			S	TD	0050	-0	095	33	36	26	84	00	1211	9	0082	14	+434										
			OB:	s i	0050	-0	095	33	360	26	84			_		14	+434										
			S	TD	0075	-0	050	33	53	26	96	00	1097	7	0110	14	+462										
			0 <b>B</b>	S	0075	-0	050	33	530	26	96					14	+462										
			S	TD	0100	-0	005	33	75	27	12	00	949	4	0136	14	+490										
			08:	S I	0100	-0	005	33	750	27	12			~		14	+490										
			S	TD	0125	0	040	33	86	21	19	00	)888	8	0159	14	+516										
			0B:	s	0125	0	040	33	860	27	19			-		14	+516										
			S	TD I	0150	0	075	33	94	27	23	00	)848	5	0181	14	+531										
			OB:	S	0150	0	075	33	940	27	23			~		14	+537										
			S	TD	0200	0	134	34	13	27	35	00	)743	9	0221	14	+5/5										
			0B:	S	0200	0	134	34	130	27	35			_		14	+575										
			S	TD	0250	0	175	34	27	27	43	00	)669	8	0256	14	+603										
			OB:	s	0250	0	175	34	270	27	43					14	+603										

REFERENCE	SHIP	LATITUDE	LONGITUO	DAIFT 01/	MARS SOUA	OEN ARE	STATION IG N MO OA1	1 TIME	YEAR	CRUISE NO.	ORIGIN S	ATOR'S TATION IUMBER		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL"	O8	WA SERV,	VE A TIONS PER S	EA	WEA- THER CODE	CLO COT				NODC STATION NUMBER	
318160	DWE	74540N	064030	) w l	259	44 WA1 CDLDR CODE	09 21 ER TRANS. 0	IZ4 WIND IR SPE		WE2	DRY	2 AP. "C WET BULB	VIS.	0230 NO, OBS. OEPTHS	SPE OBSERV	CIAL ATIONS	2	0	1	26		6			0002	]
						DT	S 3	2 50	8 01	0 0	03	-003	7	10												
	MESSENG TIME HR 1/11	CAST C	ARD DEP	TH (m)	T	'n	s •/.	• 5	GMA-1	SPECIFIC	C VOLU	ME \$	∆ D YN, M x 10 ³	- SOI	DOUD	Oz ml/i	P	04~P + 01/(	ioi. Pu	A L P • a1/1	NO2- 29 - 01	N /1	NO3-N 99 - 01/1	SL O4- P9 - 9	Si pH	100
	1.2	<u>د</u>	STD 00	000	00	068	3250	2	608	001	941	1 0	000	14	489											
	12	4 UC	το ού	100	00	160	3250	0 2	608	001	001	۰ ۵	010	14	409											
		0	35 00	10	00	166	3255	0 2	612	001	301	0 0	019	14	471											
			TD 00	20	ő	) 35	3295	2	646	001	580	7 0	037	14	484											
		06	s 00	20	00	35	3295	0 2	646					14	484											
		5	STD 00	30	-00	041	3330	2	678	001	278	9 0	051	14	455											
		OE	3S 00	)30	-00	041	3330	0 2	678					14	455											
		9	STD 00	)50	-00	056	3350	2	694	001	119	2 0	075	14	455											
		OE	3S 00	)50	-00	)56	3350	0 2	694					14	455											
		5	5TD 00	75	-00	018	3370	2	709	000	982	0 C	101	14	479											
		OE	IS 00	)75	-00	018	3370	0 2	709					14	479											
		5	5 <b>TD</b> 01	00	00	28	3377	2	712	000	951	0 0	125	14	505											
		OE	S 01	00	00	28	3377	0 2	712					14	505											
		5	5TD 01	25	00	053	3389	2	720	000	873	<b>4</b> 0	148	14	522											
		08	IS 01	125	00	053	3389	0 2	720					14	522											
			5TD 01	150	00	091	3399	2	726	000	820	5 0	169	14	545											
		01	15 01	150	00	291	3399	0 2	726					14	545											
			5TD 02	200	01	120	3406	2	730	000	787.	2 0	210	14	567											
		OE	15 02	200	01	120	3406	0 2	730					14	567											

REFERENCE	SHIP	LATITU	DE L		MARSOEN	STATION TIM	YEAR		RIGINATO	R'S	DEPTH TO BOTTOM	MAX, OEPTH OF	OBS	WAVE	WEA- THER CODE	CLOUD		S	NODC	
218140		76040	1/10	1/10 -	259 54	09 21 14	1/10	WE 2	003	INDER	0120	SMPL	01R.		01	TYPL AMT			0003	
. 210100		7504	911 10	0404041	WA	TER WI	NO BAR		IR TEMP.	°C vis.	ND.	SPE	IAL						0000	
					COLOR	Im DIR.	OR (mbi	1 BL	LS BU	JLB COD	DEPTHS	DBSERV	A TION S							
		1 1			DT	5 32 5	510 00	0 0	0- 80	06 6	07									Т
	MESSENGE	CAST NO.	C ARD TYPE	DEPTH (m)	י ד	s */4.	SIG M A – T	SPECIFIC	VOLUME 417-1107	2 ∆ 0 0 YN. M x 10 ³	VELC	UND VIIOC	0 2 m1/l	PO4-P µg = σ#/1	fOTA L—P #9 = a1/1	NO2-N µg - 01/l	NO ₃ -N yg - o!/l	51 O 4 - 51 µg - 01/1	рН	SC
	HK 1710										-									╀
			STD	0000	0080	3240	2599	0020	0237	0000	14	493								Ċ
	141		085 STD	0000	0080 0071	32400 3244	2599 2603	0019	9883	0020	14	493 491								
			085	0010	0071	32440	2603				14	491								
			STD 085	0020	0030	3303 33030	2652 2652	001	5172	0038	14	483 483								
			STD	0030	-0040	3332	2679	0013	2640	0051	14	456								
			STD	0030	-0040	33320 3361	2679	001	0417	0075	14	456								
			OBS	0050	-0040	33610	2702	000	a 4 <b>0 7</b>	0000	14	463								
			085	0075	0010	33760	2712	000	9491	0099	14	493								
			STD	0100	0047	3385	2718	000	9005	0123	14	515								
			085	0100	0047	33850	2718				14	515								
REFERENCE	SHIP	LATITU	DEL		MARSDEN	STATION TIN	YEAR	CRUISE	RIGINATO	R*S	DEPTH TO	MAX. DEPTH	OBS	WAVE ERVATIONS	WEA- THER	CLOUD		5	NODC	
CODE NO.	COOE	•	1/10	'1/10 ⁵ ≚	10* 1*	MO OAY HR.	.1/10	NO.	NUA	ABER	BOTTOM	S'MPL"	DIR	HGT PER SE	A COO5	TYPE AMT	-	1	UMBER	
318160	WE	7514	on lo	64040W	259 54	<u>09   21   19</u>	58 1969	WE2	004	r	0160	L	لـمعرا	0 0	00	6 6	ļ	1	0004	
					COLOR	TRANS OIR	SPEED MET		IRY V	LET COD	NO. OBS.	SPE OBSERV	CIAL ATIONS							
					COOF		FORCE (mb)			04 7										
	MESSENGE	C. C		1		5 32	510 00			1 2 A D			I	PO P	10141	NONN	NO N	\$10.5		1
	TIME HR 1/10	NO,	TYPE	OEPTH (m)	1.5	\$ %.	SIGM A -T	ANOM	ALY-107	OYN. M X 10 ³	VEL	OCITY	0 2 ml/l	µg = p1/l	ug = o1/l	vg - α1/l	µg - o1/l	hð - ey,	PH	0
											Ĩ									T
	156	1	STD	0000	0080	3215 32150	2579 2579	002	2143	0000	14	490 490								
	170	,	STD	0010	0070	3239	2599	002	0259	0021	14	490								
			085	0010	0070	32390 3263	2599 2619	001	8390	0041	14	490 492								
			OBS	0020	0063	32630	2619				14	492								
			5TD 085	0030	-0084	3322 33220	2673	001	3239	0056	14	434								
			STD	0050	-0068	3351	2696	001	1069	0081	14	449								
			085 STD	0050	0002	33510	2696	000	9686	0107	14	449								
			085	0075	0002	33730	2710	0.0.0		0120	14	489								
			OBS	0100	0028	33800	2715	000	9282	0150	14	506								
	EFERENCE SHIP LATIFUDE TO, CODE - 1, 18160 WE 752401		STD	0125	0055	3391	2722	000	8593	0153	14	524								
			065	0125	0055	33910	2122				14	524								
REFERENCE					MARSOEN	STATION TIA	AE VEAD	0	RIGINATO	DR*S	OEPTH	MAX. OEPTH	0.0	WAVE	WEA	CLOUO			NODC	
CODE NO.			1/10	'1/10 ⁸ 2	10* 1*	MO DAY HR	.1/10	NO.		ABER	BOTTON	OF S'MPL	S DIR.	HGT PER S	COOR	TYPE AM	7		NUMBER	
318160			ONO	64070wl	259 54	22 21 1	71 1969	WE2	005	~	<u>0150</u>	<u> </u>	00	0 0	00	66			0005	
					COLOS	TRANS OIR	SPEED MET		SRY Y		NO. 085.	SPE OBSERV	CIAL A TION S							
	· · · · · · · · · · · · · · · · · · ·				DT	5 32	510 99	3 0		06 7	0.8	$\vdash$								
	MESSENGE CAST		CARO	OFPIN (m)	1.		SCHA-T	SPECIFIC	VOLUME	₹ A O	50	UND	0	PO 4-P	TOTAL-P	NO2-N	N03-N	5104~5		1
	NR 1/10		TYPE				1000	ANOM	ALY-1107	x 10 ³	" VEL	OCITY	0,7 11171	μg = 01/l	vg = a‡∕l	μg - α1/l	µg - о!/Ì	µg - q1∕	1 PH	Ì
	171		6 7 0	0000	0000	2246	2602	001	0934	1		/ <u>00</u>								1
			OBS	0000	0090	32460	2603	001	70,74	0000	14	499								
			STD	0010	0083	3247	2605	001	9718	0020	14	497								
			STO	0020	0050	3295	2645	001	5883	0038	14	491								
			085 STD	0020	0050 -0076	32950 3346	2645 2692	001	1430	0051	14	491 441								
			OBS	0030	-0076	33460	2692				14	441								
			STD OBS	0050	-0086 -0086	3354 33540	2699 2699	001	0773	0073	14	441 441								
			STD	0075	-0022	3371	2710	000	9725	0099	14	477								
			STD	0100	0022	3384	2710 2718	000	8961	0122	14	4// 505								
			OBS	0100	0025	33840	2718	000	8660	0144	14	505								
			OBS	0125	0055	33900	2721	000	007	0144	14	523	,							

REFE	RENCE	SHIP				E Č			STATION TI	ME .	YEAR			ATOR'S		DEPT	н	MAX. DEPTH	OBS	WAVE SERVATIONS		WEA- THER	CLOUD			NODC	
CODE NO		CODE	•	1/10	1/1A	8 홈 -	10* 1 1*	-		R.1/10		NO.		NUMBE	R	80110	2 MC	MPL'S	DIR.	IGT PER SEA		CODE	TYPE AM	ř		NUMBER	
		-				+-+-		Ť								0.15				0 0		00	67	1		0006	
318160 WE 75			7533	30N	064040W	1 12	259 <u>  54</u>		29 21 1	90 1	969	IWEZ	A 18 TE	6 MP. °C	_	045	<u>-</u>		00	0101	L	1 00	0.1	'	1	0000	
							501			SPEED	- BARC		DRY	WFI	VIS. 1 COD	ORS											
							COL	DE	Im) DIR,	OR FORCE	(mba	î   I	BULB	BULB		DEPTHS	HS	JESERAN INCH:									
							DI	r	S 32	S05	986	5 (	010	-00	3 7	13							_				
	MESSENGR CA TIME OF NI HR 1/10			C AR TYP	DEPTH	DEPTH (m)			s •4.	SIGM	A-T	SPECIF	IC VOLU	10 ⁷	Σ Δ 0 DYN. A X 10 ³	X. 🗸	SOUN	O YTI:	02 m1/1	PO 4-	.р 1/1	totaL—P 1/10 - وبر	ΝΟ ₂ Ν - σ!/Ι	NC3-N 48 - 01/1	51 O 4 19 - 01	ії р.н. /1	00
		1	1	51	000 0	ດໍ່	0080	5	3230	259	1	002	2099	9	0000	່າ	44	492 [`]									
		19	0	OB	000	õ	0080	5	32300	259	1					1	44	92									
			•	SI	D 001	0	0073		3247	2605		003	1966	4	0020	) 1	44	93									
				OBS	5 001	0	0073	3	32470	260	5					1	44	93									
				SI	D 002	0020		5	3281	263	3	00	1697	6	0039	9 1	44	91									
				083	5 002	0	0055	5	32810	263	3					1	44	91									
				ST	TD 003	0	-0052	2	3324	267	3	00	1320	)4	0054	+ 1	44	49									
				085	5 003	0	-0052	2	33240	267	3				~~ ~	1	44	49									
				SI	STD 0050		-0076	JU 76 3		268	89	00.	1165	1	007	/ I	44	44									
				OBS	5 005	0	-0076	1076 33		268	9	~ ~					44	44 55									
				S	D 007	5	-006	<u>_</u>	3358	270	1	00	1052	. /	0100	נ כ ו	44	55									
				OBS	5 007	5	-006	<u>_</u>	33580	270	1	0.04		7	0123	, 1	44	00									
				S	010	0	-0000.	2	22720	271	0	000	0900		0192		44	90									
					5 010	о 6	-0000.	1	3382	271	5	001	1919	8	0159	5 1	45	16									
				0.00	012	5	004	ì	33820	271	5				••>.	์า	45	16									
				000		0	004	4	3302	272	2	000	1857	0	0177	7 1	45	32									
				08	C 015	õ	00.6	4	33920	272	2	000		•	• - •	1	45	32									
				с. с.	020	0200 (		3	3407	273	12	00	0768	32	0218	3 <b>1</b>	45	60									
				08	OBS 0200 STD 0250		010	03 34070		273	2			-		1	45	60									
				S			015	2	3424	274	2	000	0675	0	0254	+ 1	45	92									
				OB	5 025	0	0153	2	34240	274	2					1	45	92									
				S	TD 030	0	017	5	3434	274	8	000	0618	37	0286	5 <b>1</b>	46	12									
				OB:	s 030	0	017	5	34340	274	8					1	46	12									
				S	TD 040	0	0184	4	3444	275	6	00	0554	+4	034	5 1	46	34									
				OB:	s 040	0	018	4	34440	275	6					1	46	34									

DEESOENCE																	MAX.	γ					C. O.					
CTIV ID.	SHIP	LATITU	06		SQUAR	E	STATIO (G)	N TIME	Y	EAR	CRUISE	KIGINI	TATION	_	DEP1	TH   D	DEPTH	085	ERV	RVATIONS		WEA-	CODE	Ś		א גדצ	TION	r
CODE NO.	COOF	·	1/10	• ·1/10 ° ¥	10"	r þ	MO DAY HR.		1/10		NO.	Ň	UMBER		80110	ом	S'MPL"	OIL	нG	T PER SE	A	CODE	TYPE A	4.T		NU	MBER	
31816	าพค	7544		1640404	259 5	<u>.</u>	19 21	20	2 10	969	WE 2	00	7		061	0		00	0	0		70	x			0	007	
51010	310100 WE 1 73440			040404		WAT	ER	WIN	D	BARC	AIR T		AP. C		NO			-141				••			,	•		
					co	LOR	RANS DIR. SPI		OR	METE	R DRY V		WET	con	E OBS	S.	OBSERV	ATIONS										
					-		(m)	4	ORCE	(mbs	. 80		BULB		-		_											
			,		, IC	)T	s (	00 <u> </u> 5	00	99	1 0	10	-003	6	15	5		1						·			_	
	MESSENGE CAST TIME OF NO. HR 1/10		CARD	DEPTH (m)	1 7 %	-	s •/		SIGMA-T		SPECIFIC VOLUME			A D	SO1		ND	0 2 ml/l	PO4-P		101	AL-P	NO2-h	NO3-N	51 04-	-s,	ьH	
			TYPE								ANUMALT		"	X 10 ³		VELOCITY		SITY 01 MIST		µg • α1/l	ا⁄اه∙ وע		µg - α!∕	yg - at/	hð -	at/I	/ PH	
					1																							
			STE	0000	006	50	3260	)	2616	5	0018	360	7 0	000	່ 1	44	87		'									
	20	2	OBS	0000	006	50	3260	00	2616	5					1	44	487											
			STE	0010	005	52	3260	)	261	7	0018	356	4 0	019	1	44	85											
			0BS	0010	005	52	3260	00	261	7				-	1	44	85											
			STC	0020	004	+0	3290	)	264	2	0016	521	4 0	036	1	44	85											
			OBS	0020	004	+0	3290	00	264	2			<b>`</b>	053	1	44	85											
			511	0030	-008	53	322	-	2670	5	001.	293	2 0	051	. 1	44	142											
			085	0030	-008	55 71	334	/U	2010	5	001	120	7 0	076	1	144	142											
			085	0050	-00	71	334	30	269	3	001	120	/ 0	075	, <u>1</u>	44	47											
			510	0075	-002	25	336	3365 2		5	0010	0010169		102	, î	44	75											
			085	0075	-002	25	336	3650 27		5					1	44	75											
			STO	0 0100	0007 0007		338	5	2716		000	917	3 0	126	, ī	44	496											
			OBS	0100			33800		2716						1	44	96											
			STO	0125	005	53	3386		2718		000	896	2 0	148	1	145	22											
			085	0125	005	53	3386	50	271	8					1	45	22											
			STG	0150	006	52	339:	3	272	3	000	848	2 0	170	) 1	145	31											
			OBS	0150	006	52	339	30	272	3				-	1	145	31											
			STE	0200	010	3	340	5	2730	2	000	783	3 0	211	. 1	145	60											
			OBS	0200	010	)3	340	>0	2730	5					1	45	60											
			- 511	0250	015	54	3424		2742		0000	5/6	5 U	248		47	202											
			005	0250	015	20	2421	+0	2742		000/	515	1 0	280	1	142	.15											
			OBS	0300	0180		34350		2749		0000			200	′ 1	40	15											
			ST	0 0400			344	5	275	ź	000	544	3 0	338	3 1	146	37											
			OBS	0400	014	90	3446(		275	7			- •	- 0	140		37											
			ST	D 0500	016	54	344	3	276	D	000	511	5 0	391	. ī	L46	42											
			OBS	0500	016	54	344	80	276	0					1	46	42											
			ST	D 0600	013	37	344	3	276	2	0004	492	4 0	441	. 1	L46	47											
			OBS	0600	013	37	344	30	276	2					1	46	47											
REFERENCE	SHIP	LATITU	OE	LONGITUDE	DRIFT	MARSDEN	STA	IGMT	IME	YEAR		DRIGIN / S'	ATOR'S		DEPTH TO BOITON	MAX DEPTH OF	08	WAVE	WEA- THER CODE	CLOUD			NODC STATION NUMBER					
-----------	-----------------------------	----------	-----------	-----------	-------	---------	------------	------	---------	-----------------	------	-----------------------------------------	-------------	----------------------------------	-----------------------	--------------------	---------	--------------------	----------------------	--------------------	--------------------	------------------	---------------------------	-----				
CODE NO.	+ +		1/10	-1/10		10. 1.	MO	DAY	1R,1/10				DWIBER			SWPL	S DIR	HGT PER S	EA	TYPE AM	· · · ·							
318160	IWE	7554	ON	064040W	2	59 54	09	21	215 1	969	WE2	008	3		0600		06	0 2 1	71	7 8	ł		8000	1				
						W	ATER	1	WIND	BARC	o-	IR TEN	19. ℃	- vis.	NO.	SPE	CIAL											
						COLC	R TRANS	DIR.	OR	METE	R C		WE1 8UL8	CODI	DEPTHS	OBSERV	ATION S											
						-	-	1	FORCE					1.														
		,				DT	I S	06	516	98	3 -0	17		6	15	L								_				
	MESSEHGR TIME HR 1/10	CAST NO.	CARC	DEPTH I	m)	t °C	5	•/	51G M	T-A	ANOM	VOLU/	AF D	△ D N. M ( 10 ³	. SO	OND OCITY	02 m1/1	PO4-P yg - ot/i	1014L—P µg • of/t	NO2-N 48 - 01/1	NO3-N 49 - a1/l	SiO₄~ ⊮g - ai	Si pH	500				
					-																							
	1	I.	ι ςτ	ດ ່ ດດດ(	۰ '	-0018	<b></b> 31	00	249	51 [']	003	0498	ໍ່ດ	000	<u></u> 14	429 '		1	1			,						
	216		OBS	0000	Ś	-0018	31	000	249	, <u> </u>	000	••••	· •		14	429												
			ST	D 0010	)	0061	32	00	256	58	002	318	7 0	027	14	481												
			OBS	0010	)	0061	32	000	256	8					14	481												
			ST	D 0020	)	0060	32	50	260	8	001	9366	5 01	048	14	489												
			08s	0020	)	0060	32	500	260	8 (					14	439												
			ST	D 0030	)	-0025	32	98	265	51	001	5301	1 0	065	14	458												
			085	0030	)	-0025	32	980	265	51					14	458												
			ST	D 0050	)	-0050	33	28	267	6	001	2898	3 01	094	14	454												
			085	0050	)	-0050	33	280	267	6					14	454												
			ST	D 0075	5	-0052	33	37	268	34	001	2192	2 0	125	14	459												
			085	007		-0052	33	370	268	34	001	0500	· •	160	14	459												
			21	0 0100	,	-0018	22	(10	270	12	001	0,000	, ,	1))	14	402												
			085	0100	,	-0016	22	74	270	0	000	0724		170	14	402 600												
			000	012	,	0020	22	740	271	0	000	7130	, 0	1 1 7	14	509												
			005	012.	Ś	0028	23	80	271	4	000	9360	0	203	14	521												
			085	0150	Ś	0043	33	800	271	4	000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, .	205	14	521												
			500 ST	D 0200	Ś	0077	33	95	272	24	000	8423	3 03	247	14	546												
			085	0200	Ś	0077	33	950	272	4	0000			- • •	14	546												
			ST	D 0250	)	0114	34	13	273	36	000	7310	0	286	14	574												
			085	0250	)	0114	34	130	273	36					14	574												
			ST	D 0300	)	0165	34	28	274	+4	000	6562	2 0	321	14	607												
			OBS	0300	)	0165	34	280	274	+4					14	607												
			S٦	D 0400	)	0171	34	41	275	54	000	5664	+ 0	382	14	628												
			08 S	0400	)	0171	34	410	275	54					14	628												
			ST	D 0500	)	0169	34	48	276	0	000	5156	5 04	436	14	645												
			08S	0500	)	0169	34	480	276	,0					14	645												
			ST	D 0600	)	0150	34	48	276	1	000	5032	2 04	487	14	653												
			OBS	0600	,	0150	34	480	276	1					14	000												

REFERENCE					- E	MARS	DEN	STAT	ON TI	ME			ORIGIN	A TOR'S		DEPTH	MAX,	1	WAVE		WEA-	CLOU			NODC	
CTRY ID.	CODE	LATITU	106	LONGITUD	E BOD	sour	ARE	ι	GMT)		YEAR	CRUISE	5	TATIO	1	TO	OF	082	ERVATIO	NS	THER CODE	COD	s		STATION	
CODE NO	•		1/10	"1,	/10 -	10*	1.	MOC	AY H	R.1/10		NO.	<u>'</u>	UMBE	2		S'MPL"	S DIR	HGT PER	SEA		TYPL A	45			
31816	OWE	7553	ION	065150	W	259	55	09 2	1 2	238   1	1969	WE2	00	9		0650		06	0 2		00	7   8	3		0009	
						[	WAT	ER	W	(IND	BAR		AIR TE	MP. 70		NO.	S P F	CIAL								
							COLOR	TRANS.	DIR.	SPEED	METE	R	DRY	WET	COD	DEPTHS	OBSERV	ATIONS								
						ł	CDDE	Imr		FORCE	(mb)		010	0.24												
							DT	S	06	\$15	98	1 -0	21	-034	+ 6	15							_			
	MESSENG	CAST	C A	80			**		.,			SPECIFI	C VOLU	ME	×Δο	50	UND		PO4-	PI	TOTAL-P	NO2+M	NO1-N	51.04-	51	1
	TIME	T NO.	TY	PE	H (m)	1	C	1,		SIGN	(A-1	ANON	ALT-11	07	X 10 ³	. VEL	00111	02 mi/l	49 · 01	1/1	μg = et/l	µg • at∕	µg = 01/1	VQ - QU	/1, PH	1
	10.17.1	<u>'</u>	<u> </u>					1		1				+	-					+				1	+	╉
		1	۱ د	τn  ο0	00	-00	010	303	0	243	35	003	589	3 0	000	114	423		1		1		1	1	ł	I
	23	0	08	s 00	00	-00	010	303	00	243	35	000		· ·		14	423									
	23	0	ç	TD 00	110	-00		306		24	59	003	358	6 (	035	14	429									
			OB	s 00	10	-00	010	306	00	24	59					14	429									
			ŝ	TD 00	20	00	055	322	0	258	34	002	162	8 (	062	14	483									
			OB	s 00	20	00	055	322	00	258	34				-	14	483									
			s	TD 00	30	-00	040	327	5	263	33	001	699	9 (	082	14	448									
			08	s 00	30	-00	040	327	50	263	33					14	448									
			S	TD 00	50	-00	072	331	.4	266	56	001	388	4 (	)113	14	442									
			08	s 00	50	-00	072	331	40	266	56					14	442									
			S	TD 00	)75	-00	061	332	9	261	78	001	276	7 (	)146	14	453									
			08	s 00	)75	-0(	061	332	90	26	78					14	453									
			S	TD 01	00	-00	039	334	7	269	91	001	147	3 (	)176	14	470									
			08	S 01	00	-00	039	334	70	269	71					14	470									
			S	TD 01	.25	-00	003	336	3	270	20	001	041	3 (	204	14	493									
			80	S 01	.25	-00	003	336	30	270	2					14	493									
			S	TD 01	.50	00	014	337	1	270	08	000	988	6 (	)229	14	506									
			0В	S 01	50	00	014	337	10	270	08					14	506									
			S	TD 02	00	00	060	339	1	272	22	000	862	2 (	275	14	538									
			08	S 02	200	00	060	339	10	272	22					14	538									
			S	TD 02	250	01	120	340	6	273	30	000	788	1 (	316	14	576									
			80	S 02	50	0	120	340	60	273	30					14	576									
			S	TD 03	00	0:	149	342	4	274	4Z	000	674	2 (	)353	14	599									
			08	S 03	100	0	149	342	40	274	42					14	599									
			S	TD 04	100	0	180	344	13	275	55	000	558	6 (	0415	14	632									
			08	5 04	100	0	180	344	30	27	55					14	632									
			5	10 05	000	0	1/3	344	19	276	51	000	511	> (	1408	14	041									
			08	5 07	00	0	1/3	944	190	270	51					14	04/									
			5	10 06	000	Ų.	138	944	+9	- 276	53	000	406	0 (	15 19	5 14	048									

REFERENC	SHI	P	LATITU	DE I		MARS SQU	DEN ARE	STA TI	ON TI GMTI	ME	YEAR	CRU	DRIGIN	STAT	R'S ON		OEPTH TO ROTTOM	DEPTH OF	OB	WAVE SERVATIONS	WEA- THER COOE	CLOUD			NOOC STATION NUMBER	
CODE N	o. 000		•	1/10	· · ·1/10 =	10*	1. 1	40 C	AY H	R.1/10			0.	NUM	BER	-+		S'MPL'	OIR.	H GT PER 5	EA	TYPE AM	r			{
3181	60 WE		7542	ON O	65200W	259	55 ( WAT	99 2 ER	2 0	21 1 /IN D	969		AIR TE	0 MP. 1	c		0570 NO.		06	0 2	00	1718		I	0010	1
							COLDR	TRANS. 1m1	DIR.	SPEED DR FORCE	M ET I	R	DRY BULB	W BU	ET C	VIS. Ode	OBS. DEPTHS	OBSERV	ATION S							
							DT	s	06	S10	97	2	-006	-0	11 6	5	14									
	MESS TU H R	ENGR AE 0 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T	٣	s	•/	SIGN	A-T	SPEC	CIFIC VOLI	UME 107	₹ △ 01N. x 3	03 03	SOL VELC	DAL VIIDC	0 2 ml/	PO4-P µg = 01/1	TOTAL-P µg - at/l	NO2~N µg - a1/l	NO3-N yg - a1/l	SIO4- µg-qi	Si pH	s c
	ı			STD	0000	0	053	326	55	262	21	00	01819	0	000	00	14	485								
	(	21		OBS	0000	0	053	326	50	262	21						14	485								
				STD	0010	0	048	326	6	262	22	00	0180E	17	001	18	14	484								
				OBS	0010	0	048	326	60	262	22	~		2	~~~	25	14	484 								
				STU	0020	0	030	325	2	264	*4 	00	1001	2	00.	22	14	401								
				085	0020	-0	163	332	720	267	•4 76	00	1293	12	005	50	14	445								
				085	0030	-0	163	332	70	267	76				•••		14	445								
				STD	0050	-00	076	334	3	268	39	00	01165	1	00	74	14	444								
				OBS	0050	-0	076	334	30	268	39						14	444								
				STD	0075	-0(	036	336	5	270	)6	00	01012	0	010	01	144	470								
				085	0075	-00	036	336	50	270	)6						14	470								
				STD	0100	0	003	337	15	271	12	00	00953	14	01;	26	14	494								
				OBS	0100	0	003	331	150	271	12	~		-	01		14	494								
				STU	0125	0	035	330	55	271	18	00	00893		014	49	14:	514 514								
				UBS	0125	0	057	220	200	21	10	0.0	00875	7	01	71	14	528								
				OBS	0150	0	057	338	300	273	20	0	00012		0.	. 1	14	528								
				STD	0200	0	100	340	)5	273	30	00	00781	3	02	13	14	558								
				OBS	0200	ō	100	340	50	273	30	-					14	558								
				STD	0250	0	154	342	4	274	+2	00	00676	5	024	49	14	593								
				OBS	0250	0	154	342	240	274	+2						14	593								
				STD	0300	0	189	343	86	274	•9	00	00614	7	028	81	14	619								
				OBS	0300	0	189	343	360	274	+9						14	619								
				STD	0400	0	189	344	+3	275	55	00	00566	0	036	40	14	636								
				OBS	0400	0	189	344	30	275	55			,	0.24	~ /	14	636								
				STC	0500	0	155	344	+ /	276	50	00	10211	. 6	2039	94	14	638 638								
				085	0500	0	122	544	• 70	270	50						1 44	0.0								

REFERENCE	SHIP	LATITU	DE			SDEN	STA	IGMI	TIME	YEAR	CRUIS		OTAL	8°5	_	OEPTH TO	DEPTH	- -	W BSERV	A VE VA TIC	DNS	WE TH	A- R	CLOUD			NOOC	]
CODE NO.	CODE	•	1/10	• 1/10	Z 10"	1.	MO	DAY	HR.1/10		NO.		NUM	BER		BDTTOM	S'MPL	S OIR.	но	ST PEA	T SEA	CO	DE	TYPE AMI			NUMBER	
31816	OWE	7532	ON	065240W	259	55	09	22	038	1969	WE	2 01	1	÷	_	0140		06	0	2	Γ	0	0	7 8			0011	
						COLOR	TRAN Im1	s. Di	SPEE OR FOR	D MET	D- ER 1)	DRY BULB	MP. W	LET C	ODE	NO, OBS. DEPTHS	SPE OBSERV	VATIONS										
						DT	s	06	5 510	) 96	8 - (	006	-0	11 6	5	80			1									
	MESSENG TIME HR 1/3	CAST NO.	CA TY	RO DEPTH (m)		r °c		s •⁄	sic	MA-T	SPECIF	IC VOLL	IME 107		. м. 10 ³	SOL VELC	DAL	O2 ml/	a	۶04- ۲۵ - ۵	-9	101AL- 19 - 54	- P /1	NO2-N 29 - al/l	NO3~N 49 - 01/1	51 O.4 µg - at	Si ∕I ₽H	500
		ł																								I	Ţ	
			S	TD 0000	(	080	32	260	26	515	00	1871	3	000	00	14	496											
	03	8	06	S 0000	, c	080	34	2600	20	515	0.0	1944	7	00	10	144	490											
			08	S 0010		068	32	2600	20	516	00	1004		00	1 2	14	492											
			ç	TD 0020	-0	040	33	325	21	573	00	1317	9	00	35	14	454											
			OB	s 0020	-0	0040	33	3250	20	573	•••		1			14	454											
			s	TD 0030	-(	0057	33	333	20	581	00	1249	6	004	47	14	448											
			OB	s 0030	-0	057	33	3330	20	581						14	448											
			S	TD 0050	-0	069	33	357	21	700	00	1060	6	00	71	14	449											
			OВ	S 0050	-(	069	33	3570	) 2.	700						144	449											
			s	TD 0075	-0	035	33	881	2	718	000	0890	3	009	95	144	473											
			OВ	S 0075	-(	035	33	8810	2	18						14	473											
			S	TD 0100	0	030	33	886	2	19	000	)883	6	01	17	14	507											
			oв	S 0100	(	030	33	860	) 2	719						14	507											
			S	TO 0125	0	045	33	89	27	721	000	0868	8	013	39	14	519											
			08	S 0125	(	)045	- 33	8890	2	21						14!	519											

REFE	ID.	SNIP CODE	LATITU	DE 1/10	LONGITUDE				N TIME MT) Y MR.L	YEAR	CRUISE NO.	DRIGINA ST N	ATION UMBER		DEPTH TO ROTTOM	MAX. DEPTH OF S'MPL'S	O65	WA VI ERVA I		WEA- THER CODE	CLOUD CODES	7		NODC STATION NUMBER	ĺ
31	8160	WE	7522	ON	065290W	259	55 WA	09 2 ER TRANS		4 1969	WE 2	012	P. °C WET	VIS	0200 NO. OBS. DEPTINS	SPEC			1.	85	79			0012	l
							DT	S (	4 S	04CE (MB	1 -0	04	011	6	10										
		MESSENG TIME HR 1/11	CAST	CAI	DEPTH (	n) T	'n	5.		SIGMA-T	SPECIFIC	VOLUA	AE 2	∆ D rn. M k 10 ³	. SOL VELO	םאנ זדוסכ	02 ml/l	РО #9 •	4-P 01/1	TDTAL-+ µg + o1/1	NO2+-N µg - at/l	NO3-N yg - al/l	51 O45 µg - a1/	ii ∕i pH	200
		05	4	S OB	TD 0000 5 0000	0	050 050 040	3250 3250 3250	) )0 3	2609 2609 2612	001	9320 9039		000 019	14- 14- 14-	481 481 479		ľ					j	ł	ł
				OB: STOB:	5 0010 TD 0020 5 0020	0 -0 -0	040 060 060	325: 331( 331(	30 ) )0	2612 2662 2662	001	4249	9 O	036	14 14 14	479 442 442									
				08: 08: 5	TD 0030 5 0030 TO 0050 5 0050	-0 -0 -0 -0 -0	115 115 081 081	3334 3334 3351 3351	+ +0 2 20	2683 2683 2697 2697	001	0944	+ 0	049	14 14 14	421 421 443 443									
				S OB S	TD 0075 S 0075 TD 0100	-0 -0 0	019	337 337 337	) )) 7	2709 2709 2713	000 000	9815 9442	50 20	098 122	14 14 14	479 479 499									
				08 5 08 5	5 0100 TD 0125 S 0125 TO 0150		015	339 339 339	70 5 50	2721 2721 2721 2723	000 000	8669 8466	90 50	145 166	14 14 14	499 523 523 536									
				08: 5 08:	s 0150 TO 0200 S 0200		072 099 099	339 340 340	40 0 00	2723 2726 2726	000	8185	5 0	208	14 14 14	536 557 557									

REFERENCE	SHIP CODE	LATITU	DE		MARS			TIME T)	YEAR		ORIGIN,	ATOR"	S N	DEPTH TO ROTTOM	DEPTH OF	0	WA 8SERV		W TH	EA- IER DDE	CLOUD			NODC STATION NUMBER	
318160	WE	7511	ON	065340W	259	55	09 22	069 WIND	1969	WE2	01	3 AP. °C		0250	J MIL				- - E	15	7 9		1	0013	
						COLOR	TRANS D	RL O FOR	ED MET CE (mb	ER L1 F	DRY IULB	WE1 6UL		OBS. DEPTHS	OBSERV	ATION	s								
						DT	S 0	4 S1	1 96	1 -0	04	-01	1 6	11										-	
	MESSENGR TIME HR 1/10	CAST	CARC	DEPTH (m)	T	٣	s •/.	. 51	GMA-T	SPECIFI	C VOLU	ME 07	₹ △ 0 DYN. M x 10 ³	- SOI	OCITY	02 ml	ע ן	PO4-P 9 - 01/I	TOTAL 99 - 94	P	NO2N µg + at/l	NO3-N µg - a1/l	SIO4—S μg = οιλ	i pH	s C C
			์ st	oooo 'a	00	060	3220	2	584	002	165	9	0000	<u>'</u> 14	482 ં		•								
	069	9	OBS	0000	00	060	3220	02	584					14	482										
			ST	D 0010	00	052	3238	2	599	002	024	3	0021	14	482										
			OBS	0010	00	052	3238	02	599					14	482										
			ST	D 0020	-0	100	3315	2	668	001	372	8	0038	14	424										
			08s	0020	-0	100	3315	02	668					14	424										
			ST	D 0030	-0	121	3331	2	681	001	243	1	0051	14	418										
			OBS	0030	-0	121	3331	02	681					14	418										
			ST	D 0050	-00	96	3347	2	693	001	127	3	0075	14	436										
			OBS	0050	-00	96	3347	02	693					14	436										
			ST	D 0075	-00	028	3367	2	707	001	000	3	0101	14	474										
			OBS	0075	-01	28	3367	02	707					14	474										
			ST	0 0100	0	007	3382	2	717	000	902	1	0125	14	496										
			085	0100	0	207	3382	0 2	717			_		14	496										
			ST	0 0125	0	057	3391	2	722	000	860	5	0147	14	524										
			OBS	0125	0	057	3391	0 2	722			_		14	524										
			ST	D 0150	0	075	3397	2	726	000	825	7	0168	14	538										
			085	0150	0	075	3397	U 2	726			_		14	538										
			ST	D 0200	0	119	3408	2	732	000	n'1	و	0208	14	567										
			OBS	0200	0	119	3408	02	732		-		• · · · -	14	567										
			ST	D 0250	0	160	3421	2	739	000	1/03	6	0245	14	595										
			OBS	0250	0	160	3421	02	739					14	595										

REFERENC	E SHIF	E	LATITUD	DE	LONGITUDE		JARE	AT2	IGMT	11ME	YEAR	CRUISE NO,	ORIGIN	ATOR STATIC	'S DN ER		DEPTH TO BOTTOM	MAX. OEPTH OF S"MPL"	O8	WAV SERVA	E TIONS PER SE	WEA THER COOR	-	CLOUD CODES			NOUC STATION NUMBER	
31810	O WE	1,	75020	N	065350W	259	55 WA	09 TER	22	084	1969 BAR	WE 2	01 AIR TE	4 MP. 7	- v		0310	SPE	CIAL			85		8 7			0014	
							COLOR	TRANS (m)	DIR.	OR FORCE	(mb	ER 6) E	DRY	BUI	1 CC .9	206	DEPTHS	085ER∨	ATIONS									
							DT	S	05	512	96	1 0	03	-00	2		12	}										
	MESSE TAM	NGR E 01 /10	CAST NO.	CAR		1	т°с	s	•/	SIG	MA-1	SPECIFI	C VOLL	JME 10 ⁷	₹ ∆ 0YN. X 11	Б. 3	SOI VEL	UND OCITY	02 ml/	РС 29	04-P = 01/1	101AL-F µg = ot/I	N P	łO₂−N g - 01/l	NO3-N 88 - 01/1	51 O4-5 yg - 61	рн	s c c
														1						1								
		'		51	റ്റററ	· c	053	32	26	25	89	002	116	6	000	0	14	479										
	0	84		085	0000	Ċ	053	32	260	25	89						14	479										
	-	•		51	D 0010	C	053	32	40	26	01	002	009	5	002	1	14	483										
				OBS	6 0010	c	053	32	400	26	01						14	483										
				51	0 0020	- C	100	33	21	26	72	001	326	8	003	7	14	425										
				OBS	6 0020	-0	100	33	210	26	72						14	425										
				51	D 0030	-0	120	33	32	26	82	001	235	7	005	0	14	419										
				085	6 0030	-0	120	33	320	26	82			-			14	419										
				ST	0 0050	-0	102	33	46	26	93	001	133	0	007	4	14	433										
				OBS	6 0050	- C	102	33	460	26	93						14	433										
				S1	D 0075	-0	071	33	64	27	06	001	005	3	010	1	14	454										
				OBS	5 0075	-0	071	33	640	27	06						14	454										
				51	D 0100	c	0005	33	79	27	15	000	923	9	012	5	14	495										
				OBS	0100	C	005	33	790	27	15					-	14	495										
				S1	0 0125	C	042	33	90	27	22	000	859	6	014	F	14	210										
				OBS	0125	0	042	33	900	27	22			-	. 1 .		14	518										
				S1	0 0150	0	0.84	33	98	27	26	000	823		016	8	14	542										
				OBS	5 0150	L L	0084	33	980	21	26		716	0	0.20		14	542										
				S1	0200	0	0149	34	18	21	38	000	110	0	020	0	14	502										
				OBS	0200	0	149	34	180	27	38	000		E	A24		14	202										
				51	0250	0	181	34	30	21	44	000	10 26		024	۶L.	14	609										
				OBS	0250	0	0187	- 34	300	27	44			~	<u>^</u> 2-		14	609										
				0B5	D 0300 0300	0	203	34	40	27	51	000	1296	0	021	12	14	625										

REFEREN	CE	SHIP	LATITU	DE	LON				STATIC	N TIA	ME	YEAR	CRUIS	ORIGIN	ATOR	s	D	ертн ТО	MAX. DEPTH	OB	WAV	'E TIONS	WEA	<u>k</u> -	CLOUD			NODC	
COOL	₩0.	CODE		1/10		· 1/10	Z 10*	11.	MOLD	AY HR	21/10		NO.	-	NUMB	ER	BO	TOM	S'MPL'S	OIR,	HGT	PER SE	A COO	E -	TYPE AM	7	1	NUMBER	
318	160	WE	7451	5N	065	5410W	259	45	09 2 TER	2 1	00		WE2		5 MP. 10	VIS	04	410 NO. DBS.	SPEC		1-1		85	5	7 7		I	0015	
								CODE	Lm)	DIR.	OR FORCI	imbi	10   ·	IULE	BUL	B	DE	PTHS	ORZEKA	ATIONS									
								DT	5	05	\$12	96	1 0	03	-00	2	1	13											
		MESSENGE TIME HR 1/10	CAST NO.	CA TY	RD	DEPTH (m	1	<u>ι</u> υ. ττ	5	·/	SIG	MA-T	SPECIF ANO	C VOLU	UM E	₹ △ C DYN. A x 10 ³	2.	SOU VELO	IND DCITY	02 ml/l	РС 29	04-P = ot/1	101AL- µg - at/	.e 1 1 1	NO2-N 29 - 01/1	N 03-N 48 - 61/1	SI 04-	54 р.Н.	500
															-	-													T
			'	' s	' מד	0000	' (	045	321	5	25	81	002	2196	.7 '	0000	່ເ	144	474		'		1			1			'
		100	o C	оB	s	0000		0045	321	50	25	81						144	474										
				S	TD	0010	(	044	321	7	25	83	002	2180	16	0022	2	144	475										
				ΟВ	s	0010	(	0044	321	70	25	83						144	475										
				S	TD	0020	- (	070	331	0	26	63	00	421	.2	0040	0	144	437										
				ов	s	0020	-0	070	331	00	26	63						144	437										
				S	TD	0030	-(	0118	333	5	26	84	00	213	33	0053	3	144	420										
				OB	S	0030	-(	0118	333	50	26	84						144	420										
				- 5	10	0050	~	1127	335	0	26	97	00	094	+4	0070	5	144	421										
				08	5	0050	-	1127	337	00	20	97	~~	0.25	. 6	0103		144	421										
				~ ~ ~		0075		115	335	٥ ٥	21	03	00	055	10	0103	2	14-	+ 22										
				С С	13 TD	0100		0110	237	5	27	12	000	047	70	0121	A	144	492										
				08	s	0100	- (	010	337	50	27	12	000	// .	Ů.	0-20		144	488										
				Č	τn	0125	, i	0.52	338	7	27	19	000	888	10	0150	h	145	522										
				08	s	0125	,	0.52	338	70	27	19		,				14	522										
				s	TD	0150	(	086	340	0	27	27	000	809	77	0172	2	145	543										
				OB	s	0150		0086	340	00	27	27						145	543										
				s	TD	0200	(	0140	341	5	27	36	000	733	30	0210	D	145	577										
				OB	S	0200	(	0140	341	50	27	36						145	577										
				S	TD	0250		0185	343	0	27	44	000	)654	•9	024	5	146	508										
				0B	s	0250		0185	343	00	27	44						146	508										
				s	TO	0300	(	0204	344	1	27	52	000	)589	93	0276	5	146	526										
				OВ	s	0300		204	344	10	27	52						146	526										
				S	TD	0400		0203	344	9	27	58	000	)532	26	0332	2	146	543										
				0B	s	0400	(	0203	344	90	27	58						146	543										

REFERENCE CTRY ID. CODE NO.	SHIP COOE	LATITU	OE 1/10	LONGITUDE	ND SC SC	RSDEN DUARE	STATIC IG	N TIME MTE	YEAR	CRUISE NO.	ORIGIN S	A TOR'S TATION IUMBER		DEPTH TO BOTTON	MAX DEPTH OF S'MPL	DIR.	WAVE SERVATIONS [HGT] PER] S	WEA THER COOE	CLOUD CODES	T		NODC STATION NUMBER	
210160		7443	5 NI	045400W	2.5	0 45	09 2	2 11 5	1060		01	6		0070				03	8 7	1		0016	
1919100	WE	7441	יאכ	0004900	1 29	9 4 J.	TER	WIND	1902		AIR TEA	ар. °С	<b></b> '	NO.	ť		l'''	105		•		0010	
						CDLOR	TRANS.	DIR. SP	ED MET		ORY	WET	COD	OBS.	OBSERV	ATIONS							
						COOE	(m)	10	RCE Imb	5#1 E	IULB	BULB		DEPTHS									
						DT	S I	lo  sc	96 7	io ⊨o	06	-011		18									
	MESSENG	CAST	CAR				T			SPECIEI		ME 8	ΔD	50			PO P	TOTAL-1	NOanN	NO	\$105		5
	TIME	NO.	TYPE	DEPTH (	m)	1 °C	s •.		IGMA-T	ANON	ALY-XI	°, 0	YN, M	VEL	OCITY	0 2 m1/	yg - 01/1	ug • 01/1	ug - at/1	yg - at/l	10 - at/	PH I	C
	HR 1/10						-			1		-		-									+
										1							1	1	l		l	I	ł
			ST	0000	2	0084	3200		567	002	330	8 0	000	14	490								
	119	5	OBS	0000	,	0084	3200		567	000	2 7 7		A 7 2	14	490								
			080	0010		0078	2200		267	002	521	4 V	025	14	489								
			005	0 0010	ý _	0078	2320	50 2	676	001	296	a 0	041	14	407								
			085	0020	ý –	0098	332	50 2	676	001	290	0 0	1	14	427								
			ST	0 0030	, ) –	0117	333	3 2	683	001	228	90	054	14	420								
			085	0030	, ) –	0117	333	30 2	683					14	420								
			ST	0 0050	) –	0139	334	3 2	691	001	1440	60	078	14	415								
			OBS	0050	) -	0139	334:	30 2	691					14	415								
			ST	0075	5 –	0143	3352	2 2	699	001	072	90	105	14	418								
			OBS	0075	5 –	0143	335	20 2	699					14	418								
			\$T	0 0100	) -	0100	3365	5 2	708	000	985	7 0	131	14	444								
			OBS	0100	) –	0100	336	50 2	708					14	444								
			ST	0 0125	- s	0017	3370	2	709	000	981	20	156	14	488								
			OBS	0125	- *	0017	3370	00 Z	709					14	488								
			ST	D 0150	)	0022	3388	3 2	721	000	8630	6 0	179	14	512								
			085	0150	,	0022	3404	50 2	721	000	776	<u>ه</u> ۵	220	14	560								
			000	0200	Ś	0104	2400		721	000	110	- 0	- 20	14	560								
			003	0 0200	ń	0160	3429	3 2	745	000	650	8 0	256	14	596								
			DBS	0250	Ś	0160	3428		745	000	0.00		2 90	14	596								
			ST	0 0300	)	0193	344	5 2	756	000	550	2 0	286	14	622								
			OBS	0300	)	0193	344	50 Z	756					14	622								
			ST	0 0400	)	0242	345	5 2	760	000	521	50	339	14	661								
			OBS	0400	)	0242	345	50 Z	760					14	661								
			ST	D 0500	)	0235	345	5 2	760	000	520	60	391	14	675								
			OBS	0500	)	0235	345	50 2	760					14	675								
			ST	0 0600	)	0208	3453	32	761	000	516	0 0	443	14	679								
			OBS	0600	)	0208	345	30 2	761	000	FOC			14	679								
			ST	0700	,	0169	345		762	000	500	3 0	494	14	6/8								
			085	0/00	<u> </u>	0107	345.		745	000	440	1 0	547	14	670								
			089	0800	Ś	0112	344	7 4 20 7	765	000	407	τŲ	242	14	670								
			с в о с т	n 0900	Ś	0070	3445	2 2	767	000	4431	6 0	588	14	667								
			OBS	0900	)	0070	3448	30 2	767					14	667								

REFE	RENCE				ax	ALL RSOEN	STATION	TIAAE	ORIGINAT	0.8*5	DENTH MA	X.	WAVE		CIQUO				
CIRY	10.	SHIP	LATITU	OE L		SOUARE	GMT	YEAR		TION	TO DEPT	H OBS	ERVATIONS	THER	CODES		s	ATION	
CODE	NO.	COOF	•	1/10	· 1/10 =	10. 1.	MO DAY	HR,1/10	NO. NU	MBER	BOTTOM S'MP	L*S DIR	HGT PER SEA	COOE	TYPE AM	1	N	UMBER	
1										_		- 2					_		
31	8160	WE	7442	ON O	67200WI I	259 47	1091221	159/1969	WEZ UTT	r 1	1010	32	1121	00	1 6 8	1	1	0017	
						6010		SPEED BAR		VIS.	NO. ST	ECIAL							
						CODE	(m) DIR.	OR (mb	BULB	BULB	OEPTHS OBSER	EVATIONS							
								510 Q											
							5 32	1210 96	8 F006 F	JII [7	19	1	T T			_			
		MESSENG	CAST	CARO	OFPTH (m)	1 1	5.%	SIGMANT	SPECIFIC VOLUME	₹ ∆ O	SOUNO	0.0	PO4-P	TOTAL-P	NO2-N	NO3-N	SI D4-SI		5
		HR 1/10	I ND.	TYPE					ANOMALT-110	x 10 ³	VELOCITY		µg = 01/l	µg • oi/l	μg - 01/i	µg - αi/l	µg - α1/l	₽ ^{ri}	č
			-							1									Ħ
			1	CTD.	0000	01/0	2224	3503	0033708	10000	14510	1							11
		150	-	086	0000	0140	32240	2503	0021790	0000	14518								
		1.75	9	6003	0000	0132	3240	2500	0020234	0021	14510								
				000	0010	0122	22440	2599	0020294	0021	14510								
				083	0010	0063	2210	2099	001/229	0020	14519								
				086	0020	-0063	22100	2002	0014230	0038	14441								
				005	0020	-0130	2225	2002	0012008	0051	14441								
				000	0030	-0130	22250	2005	0012098	0051	14412								
				003	0050	-0150	33550	2005	0010970	0074	14412								
				085	0050	-0150	23500	2691	0010879	0074	14411								
				6003	0075	-0164	3363	2708	0009828	0100	14411								
				OBS	0075	-0164	33630	2708	0007020	0100	14410								
				STO	0100	-0152	336.8	2712	0009461	0124	14420								
				085	0100	-0152	236.90	2712	0009401	0124	14420								
				STO	0125	-0136	3375	2717	0008949	0147	14420								
				DBS	0125	-0139	33750	2717	0000747	0+41	14432								
				STD	0150	-0060	3390	2727	0008085	0169	14475								
				OBS	0150	-0060	33900	2727	0000000	0.007	14475								
				STO	0200	0046	3410	2738	0007097	0207	14535								
				OBS	0200	0046	34100	2738			14535								
				STD	0250	0108	3424	2745	0006436	0240	14573								
				085	0250	0108	34240	2745			14573								
				STD	0300	0137	3433	2750	0005973	0272	14595								
				OBS	0300	0137	34330	2750			14595								
				STD	0400	0185	3450	2760	0005101	0327	14635								
				OBS	0400	0185	34500	2760			14635								
				STD	0500	0181	3453	2763	0004882	0377	14651								
				OBS	0500	0181	34530	2763			14651								
				STD	0600	0154	3452	2764	0004765	0425	14655								
				085	0600	0154	34520	2764			14655								
				STD	0700	0121	3450	2765	0004669	0472	14657								
				OBS	0700	0121	34500	2765			14657								
				STD	0800	0080	3449	2767	0004430	0518	14655								
				OBS	0800	0080	34490	2767		, -	14655								
				STD	0900	0055	3447	2767	0004390	0562	14660								
				OBS	0900	0055	34470	2767			14660								
				STD	1000	0040	3447	2768	0004275	0605	14670								
				OBS	1000	0040	34470	2768			14670								

REFERENCE			1	~ MA8	SDEN	STATION T	IME	1	ORIG	NATOR	2'	DEATH	MAX		WAVE		CLOUD	T			
CTRY ID.	SHIP	LATITUDE	LONGITUDE	ES SOL	ARE	(GMT)		AR 2	RUISE	STATIC	N N	TO	DEPTH	085	ERVATIONS	THER	CODES		51	ATION	
CODE NO.	000	• 1/10	1/10	² 10'	11	MD DAY H	R.1/10		NO,	NUMB	IER	BOTTON	SMPL	S DIA.	HGT PER 51	CODE	TYPE AM	7	N	UMBER	
21014	1.115	745204	0.071501	250	1.7	00 22	175 10		1150 0			1000		0		7.2	6 7			0.01.0	
319190		74520N	067150W	1 1259		191221. TER 1 V		69	WEZI U	EMP Y		1000	- L	1_00	10 10 1	1 13	1 6 7	1		0018	
					0.00		SPEED	BARO			VIS.	NO.	SPE	CIAL							
					CODE	(m) DIR	OR	(mbs)	BULB	801	.9	DEPTHS	OBZERV	ATIONS							
					0.7	6 00	600	0.75		0.1	1 7	10									
					101	5 00	1300	915	F006		111	119		1							-
	MESSENG	CAST C	ARO DEPTH		°C	5 %.	SIGMA	-1	SPECIFIC VOI	UME	₹ ∆ D	so	UND	0.2 ml/l	PO4-P	TOTAL-P	NO2-N	N03-N	SI O4-SI		S
	HR 1/10	T NO. T	TPE					·	ANOMALY_	x:0'	X 10 ³	. VEP	00111	01	µg = o‡∕l	µg = at/1	µg - o!/l	μg = σ1/1	µg - ¢1/1	pri	č
																					t
		1					1		00001			·	!		1	I	1	1			1
				J 0	080	3202	2265		00231	35	0000	14	488								
	10		S 0000	J U	080	32020	2269	·	00000		00.22	14	488								
				5 0	080	3205	25/1		00229	14	0023	14	490								
		08	S 001	, u	120	32050	2271		00124			14	490								
			0020	J -0	120	3315	2668	5	001366	<b>b</b> /	0041	14	415								
		UE	15 0020	J -0	120	32150	2668	5			005	14	412								
			510 003	J -0	157	32333	2084	•	00121	30	0054	14	402								
		08	15 0030	J -0	15/	33330	2684					14	402								
			TD 0050	5 -0	155	3350	2698		001086	0	0077	14	408								
		OE	IS 0050	00	155	33500	2698					14	408								
			TD 007	5 -0	163	3355	2702		001044	+5	0104	14	409								
		OE	5 007	5 -0	163	33550	2702					14	409								
		5	TD 010	J -0	152	3363	2708		000984	+5	0129	14	420								
		OE	IS 0100	0 -0	152	33630	2708					14	420								
		5	TD 012	5 -0	145	3370	2713		00093	13	0153	14	428								
		08	IS 012	5 -0	145	33700	2713					14	428								
		5	STD 0150	0 -0	087	3384	2723		00084:	31	0175	14	461								
		oe	IS 0150	0- 0	087	33840	2723				-	14	461								
		5	GTD 0200	) O	028	3403	2733		000752	24	0215	14	525								
		OE	IS 0200	0 0	028	34030	2733					14	525								
		9	TD 0250	0 0	092	3421	2744		000659	55	0250	14	565								
		OE	S 0250	) 0	092	34210	2744					14	565								
		5	TD 0300	0 0	134	3435	2752		000580	00	0281	14	594								
		OB	IS 0300	) 0	134	34350	2752					14	594								
		5	STD 0400	) 0	210	3450	2759		00053	1	0337	14	646								
		08	S 0400	0 0	210	34500	2759					14	646								
		5	TD 0500	0 0	214	3455	2762		000501	17	0389	14	665								
		08	is 0500	) 0	214	34550	2762					14	665								
		5	TD 0600	0 0	176	3455	2765		000472	27	0437	14	665								
		08	S 0600	0 0	176	34550	2765					14	665								
		5	TD 0700	) 0	137	3453	2766		000451	77	0484	14	664								
		08	S 0700	) 0	137	34530	2766					14	664								
		S	TD 0800	) O	880	3450	2767		000441	9	0529	14	659								
		OB	S 0800	) 0	880	34500	2767					14	659								
		S	TD 0900	) 0	047	3448	2768		000429	52	0572	14	657								
		08	S 0900	) 0	047	34480	2768					14	657								
		S	TD 1000	) 0	029	3448	2769		000411	.3	0614	14	666								
		08	S 1000	) 0	029	34480	2769					14	666								

REFER	ENCE	SHIP	LATITU	DF		MAR	DEN	STAT	ION TI GMTI	IME	YEAR	C S	OR	GINAT	OR'S		OEPTH TO	MAX, DEPTH	OBS	WAY	VE	WEA- THER	CLOUD			NOOC	
CTET	NO.	C00E	•	1/10	· 1/10 PX	10"	1 10 +	MOID	DAY H	IR,1/10		-	NO.	NU	MBER		BOITON	S'MPL"	S DIR.	HGT	PER SE	× CODE	TYPE AM	ī		NUMBER	
													15 2				0.510	1	32		2	00	67			0019	
318	3160	WEI	7502	ONIO	067060W	259	15711 WAT	091∡ ER	121	VINO	199.		AIR	TEMP	c		LNO.	1	<u> </u>	· • ·	-		•				
							CO108	TRANS	0.0	SPEED	ME	TER	OR	r I	WET	COD	OBS.	OBSERV	ATIONS								
							COOF	(m)	Dik	FORC	E {m	bs)	BUL	9	BULB		OFFIRS										
							DT	s	00	s00	9	77	-00	6 - I	011	7	14										_
						Γ_	<u> </u>		<u> </u>	1	_		FORC N	OLIM	2	Δ 0	50	UNO		P	04-9	TOTAL-P	NO2-N	NO3+N	SLO4-	Si	5
		TIME	LCAST	CARO TYPE	OEPTH (m)	ז	Ċ	s	•⁄	SIG	MA-T	17	NOMAL	Y-R107	1 OY	N, M 10 ³	· VEL	OCITY	02 mi/l	24	a - a1/1	µg • at∕l	μg - αl/l	µg = a1/l	9g - 01	/I PH	č
		HR 1/10	<u> </u>		_	1-		+				+-					+			-+-						-	
											_	l			1						1			I		1	
				ST	D 0000	0	065	320	20	25	68	(	023	210	01	100	14	451									
		192		OBS	0000	0	065	320	100	25	68		014	244	00	120	14	401									
				ST	D 0010	0	050	329	90	20	41		1010	200	0.	20	14	400									
				OBS	0010	0	050	329	100	20	41		013	026	0	124	14	400									
				ST	0020	-0	130	22	220	20	75	,	1010	025	0.		14	411									
				OBS	0020	-0	150	22.	2.50	26	86	(	0011	959	0	) 4 7	14	404									
				0.0	0030	_0	153	33	360	26	86				•		14	404									
				510	n 0050	-0	168	33	46	26	95	(	0011	141	0	070	) 14	401									
				085	0050	-0	16B	33	460	26	95						14	401									
				ST	D 0075	-0	170	33	54	27	01	(	010	504	0	297	14	406									
				OBS	0075	-0	170	33	540	27	01						14	406									
				ST	D 0100	-0	160	330	55	27	10	(	0009	669	0	122	14	416									
				OBS	0100	-0	160	330	550	27	10						14	416									
				ST	D 0125	-0	152	33	71	27	14	(	0009	216	0	146	5 14	425									
				OBS	0125	-0	152	33	710	27	14		_				14	425									
				ST	D 0150	-0	023	33	95	27	29		0007	873	0	167	14	493									
				0BS	0150	-0	023	33	950	27	29						14	493									
				ST	D 0200	0	123	34	14	27	36		0007	287	0	205	> 14	570									
				OBS	0200	0	123	34	140	27	36				~	220	14	602									
				ST	D 0250	0	174	34	32	21	47		0006	513	0	2 3 7	14	403									
				OBS	0250	0	174	34	320	21	41			200	0	240	14	478									
				ST	0 0300	0	208	34	44	21	54		0000	100	0	<i>د</i> ٥ ۲	, 14 14	628									
				OBS	0300	0	208	34	440	21	24		0005		0	326	14	655									
				ST	U 0400	0	230	34	500	21	51	'	0005	-04	Ų	223	14	655									
					0400	0	105	34	52	27	61		0005	076	0	378	3 14	657									
				51	0500		105	34	 520	27	161			5.0	Ŭ		]4	657									
				002	0,000		127		- 20		91																

REFERE CIRY CODE	ID. NO.	SHIP CODE	LATITU	DE 1/10	LONGITUDE	DAUFT	MAR SOU	DEN ARE	TAT2	ION T GMT	IME IR,1/10	YEAR	CRUIS NO.	ORIGIN	A TOR"	S N R	DEPT TC BOTTO	0 HT 0 M 5	MAX. DEPTH OF 'MPL'S	OB5	W A SERV	A VE A TIONS	WEA- THER CODE	CLOU COD	ID ES			NDDC STATION NUMBER	
318	160	WE	7511	ON	067050		259	57 WA	09 2 TER	22	212 WINO	1969 BAR	WE2	02 AIR TE	0 MP. °C		044 NO	•0	SPEC		0	0	01	6	6			0020	J
								COLOR	TRANS.	OR.	SPEED OR FORC	e (mb	ER 1	DRY BULB	WE1 BUL	C00	E OBS	s. тнз О	BSERV	ATIONS									
								DT	s	00	500	97	5 -0	22	-03	6 7	13	3											
		MESSENGE TIME H.R. 1/10	CAST NO.	CAI	E DEPTH	(m)	T	٣	2	•4.	SIG	M A -T	SPECIFI	C VOLL	1ME 107	₹ △ D DYN. # X 10 ³		SOUN	D	0 2 ml/l		PO 4-P 29 - 01/1	101AL-P µg• a1/1	NO2- µg - al	N /1	NO3-N µg - ot/l	51 O4- µg - <b>o</b> l	Si pH	soo
																					Ì			1	ł			1	
				S	rD 000	00	0	020	32	20	25	86	002	146	9	0000	1	446	53										
		212	2	0B	5 000	00	0	020	322	200	25	86					1	446	53										
				S	TD 00	10	0	010	323	35	25	99	002	2027	4	0021	. 1	1446	52										
				08	5 00	10	0	010	32.	200	25	99			,		1	1440	52										
				<u> </u>	- 00	20	-0	083	22	12	20	60	001	401	4	0038	1	1442	32										
				00. c	5 00. 500 01	20	-0	114	23	36	26	85	0.01	206	Q	0051	1	44	22										
				08	5 003	20	-0	114	33	360	26	85	00.	200		Q = ) I	î	44	22										
				S	D 004	50	-0	130	33	43	26	91	001	147	2	0075	i	44	19										
				OB.	5 004	50	-0	130	334	+30	26	91			-		1	441	19										
				S	TD 00	75	-0	130	33	57	27	03	001	038	4	0102	1	442	25										
				08	5 00.	75	-0	130	33	570	27	03					1	1442	25										
				S	TD 01(	00	-0	098	330	55	27	08	000	986	4	0127	' 1	444	45										
				0B:	5 010	00	-0	098	330	550	27	08					1	444	45										
				S	TD 01;	25	-0	800	33	77	27	14	000	932	2	0151	1	449	93										
				08	5 01;	25	-0	800	33	770	27	14					1	L449	93										
				S	TD 019	50	0	010	331	82	27	17	000	902	8	0174	1	1450	06										
				OB.	5 019	50	0	010	33	B20	27	17					1	1450	06										
				S	TD 020	00	0	127	34	10	27	33	000	0761	7	0216	5 1	1457	71										
				08	5 020	00	0	127	34	100	27	33			-		1	145	71										
				S	TU 029	50	0	160	34	26	27	43	000	1665	9	0251	. 1	1459	96										
				08	5 02	50	0	160	34	260	27	43			_		1	1459	96										
				S	TD 030	00	0	192	34	35	27	48	000	)624	7	0284	1	1462	20										
				OB	5 030	00	0	192	34	350	27	48			0	0343	1	1464	20										
				5	ID 040	10	0	193	344	40 ( 0 0	21	50	000	1231	ō	0542		403	27										
				0B	5 040	10	0	193	344	480	21	28					1	1463	27										

REFE CTRY COOR	ID. ND.	SHIP CODE	LATITU	JDE 1/10	LONGITU		MAR SDU	SDEN IARE		N TIME AT) (  HR,1/1	YEAR	CRUISE ND.	DRIGIN / ST	A TOR'S	N R	DEPTH TD 8DTTD	MA DEP1 03 M S'MP	X. [H] L*S OF	W DBSER	A VE VA TION	IS SEA	WEA- THER CODE	CLDUI CDDE	5		NODC STATION NUMBER	
31	9160	WE	7522	20 N	06702	ow	259	57 WA COLOR CODE	09.23 TER TRANS. D	IR. OF	1969 BAR MET CE (mb	WE2 D- ER (1 1) B	O2 AIR TEN DRY ULB	AP. °C WET BULE	- VIS. CODI	0 3 9 ( ND. D85. DEPTH		DECIAL RVATION	3 0	2		01	33			0021	
								DT	S 0	3 50	5 97	7 -0	22	-039	7 7	12											
		MESSENGE TIME MR 1/10	CAST ND.	C A TY	RD DE	PTH (m)	1	°C	5 •/	• 51	GMA-1	SPECIFIC	ALY-110	иЕ 1 ⁷	₹ △ D DYN. M X 10 ³	SC VEI	LOCITY	D 2 n	nt/1	PO₄P µg + o1/	) t ر س	DTAL-P vg - or/l	NO ₂ —N yg • al/l	NO3-N 99 - 01/1	St D.4—5 ур - аł/	рн	500
																			ļ		1	1					
				S	TD O	000	0	010	3238	2	601	002	0048	9 (	0000	14	461										
		005	5	08	s 0	000	0	010	3238	0 2	601					14	461										
				S		010	0	800	3242	2	604	001	9730	) (	020	14	462										
				08	5 0	010	0	102	3242	0 2	604	001	2540		0 2 7	14	402										
				0		020	-0	102	2317	0 2	007 669	001	2000		10 5 1	14	424										
				00. c	5 0 TD 0	020	-0	121	3337	2	686	001	1971		049	14	419										
				08	s 0	030	-0	121	3337	0 2	686	001	• • • •			14	419										
				S	то о	050	-0	114	3345	2	692	001	1367	7 (	073	14	427										
				OB	s o	050	-0	114	3345	0 2	692					14	427										
				S	TD 0	075	-0	126	3355	2	701	001	0550	) (	0100	14	427										
				OB	s 0	075	-0	126	3355	0 2	701					14	427										
				s	TD 0	100	-0	066	3375	2	715	000	9222	2 (	125	14	462										
				OB	S 0	100	-0	066	3375	0 2	715					14	462										
				S	TD O	125	0	004	3384	2	719	000	8849	9 (	)147	14	499										
				08	s 0	125	0	004	3384	0 2	719					14	499										
				S	TD O	150	0	057	3396	2	726	000	8Z25	) (	169	14	1529										
				OB	s 0	150	0	057	3396	0 2	726	000	7610		.200	14	529										
				5	TD 0.	200	0	128	3411	o 2	133	000	1548	, (	1208	14	572										
				0.0	5 U. TD 0	250	0	171	3425	2	133 742	000	6818		1244	14	601										
				08	ς 0.	250	ň	171	3425	0 2	742	000	0010	, (		14	601										
				S	το 0	300	ŏ	192	3435	2	748	000	6247	7 0	277	14	620										
				OB	s 0	300	ŏ	192	3435	0 2	748					14	620										

REFERENCE CTRY ID. CDDE LATITUDE CODE ND. 1/10		SDEN STATION TI IARE IGMTI	ME YEAR	DRIGINATO CRUISE STATI ND. NUM	R*S IDN BER B	DEPTH TO DETTOM S'MPL	WAVE D8SERVATION	WEA- C THER C CODE TY		NDDC STATION NUMBER
318160 WE 75312N	065510w 259	55 09 23 C WATER W CDLDR TRANS DIR CODE (m)	IND BARC SPEED METE OA FORCE Imbu	WE2 022 AIR TEMP. R DRY W 1 BULB BU		ND. SPE OBS. DEPTHS OBSERV	CIAL CATIONS	01	x 2	0022
MESSENGE CAST CAR TIME OF ND. TYP HR 1/10	D DEPTH (mi T	DT S 03	510 98 SIGMA-T	B -022 -0	39 7 ∑ △ D DYN. M. x 10 ³	SDUND VELDCITY	D2 ml/1 PD4~P µg = ot/1	total-P NO µg = o1/t µg	02-N ND3-N 5 j = αt/l μg = αt/l μ	t D ₄ —Si ig = at/1 pH
S1 021 021 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 085 S1 5 5 S1 085 S1 5 5 S1 085 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 S1 5 5 5 5	D         0000         0           0000         0         0           0010         0         0           0010         0         0           0020         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         -0         0           0030         0         0           0030         0         0           0150         0         0           0200         0         0           0200         0         0           0250         0         0           0200         0	025 3240 025 32400 020 3255 020 3255 070 3302 070 3302 070 33020 118 3334 118 3334 115 3346 115 3346 115 33460 100 3359 050 3375 050 3375 050 3375 050 3375 050 3375 050 3375 027 33840 062 3398 062 3498 062 34980 062 34980 062 34980 062 34980 062 36980 062 36980 062 36980 062 36980 062 3698000000000000000000000000000000000000	2602 2602 2614 2614 2656 2656 2684 2684 2693 2703 2703 2703 2714 2714 2714 2718 2717 2727 2727 2734 2734 2746 2752	0019963 0018791 0014825 0012210 0011288 0010329 0009289 0008969 0008103 0007467 0006442 0005867	0000 0019 0036 0050 0073 0100 0125 0148 0169 0208 0243 0273	14468 14468 14470 14470 14436 14436 14420 14420 14420 14426 14426 14439 14469 14469 14469 14469 14510 14532 14532 14532 14536 14606 14629				

REFER	IO.		LATITU	DE		MARS	DEN ARE		ION TI GMTI	ME	EAR	CRUI	ORIGIN	ATOR STATIC	'S IN FR	DE 8DT	EPTH TO TTDM	MAX. DEPTH OF	095	WA SERV	ATIONS	WEA- THER COOE	CLOUD CODES			NODC STATION NUMBER	
	NU.			1/10		10-	1.	<u>MU   L</u>		CI/IU			+			+		1	1	1.0		<u>~</u>					
318	8160	WEL	7539	ON	066460wl	259,	56	<u>09   2</u>	23 10	3611	969	WE	2 02	3		105	5 <b>00</b> ,		<b>ل_04</b> م	10	121	1 00	313	I	1	0023	
						H	WAT	ER	~	SPEED	BARO	:		T	VIS		40.	SPE	CIAL								
							CODE	UTRAINS.	DIR.	FORCE	(mbs	î	RULE	801		DE	PINS	OBJEXA	AIIONS								
						İ	DT	s	04	508	984		019	-03	1 7	1	4										
								<u> </u>	<u> </u>	1	آ ت	1010			ξΔC	51	501				02	1014	NDa-N	NON	90.		T
		TIME	약 NO.	CARC TYPE	DEPTH (m)	Т	C	s	•/	SIGM	A-T	ANO	MALY-X	107	DYN. /	и.	VELO	CITY	0 2 m1/i	بر ا	0 - 01/1	rot / 1 - 10 بر	ug - ci/l	V9 - 01/1	yg - of	/I PH	6
		WR 1/10	<u> </u>							-						-+											+
										1						1										1	
				ST	D 0000	00	)52	325	54	261	2	00	1902	4	0000	0	144	483									
		030	5	OBS	0000	00	52	325	540	261	2	~ ~				~	144	+83									
				ST	0 0010	00	048	325	27	261	5	00	1877	3	001	9	144	+83									
				OBS	0010	00	)48	325	570	261	5	~ ~			~~~·	-	144	+85									
				ST	D 0020	-00	28	321	18	263	5	ψŪ	1082	1	003	<i>'</i>	144	+22									
				OBS	0020	-00	28	321	180	203	2	~~		~	005	-	144	+22									
				ST	0030	-00	249	331	16	200	<u>'</u>	00	1 202		005.	2	140	+ 50									
				085	0030	-00	149	23/		200	، ٥	00	1167	8	007	R	144	457									
				080	0050	-00	147	334	40	268	9 Q	00	1101	0	007	0	144	457									
				005	0030	-00	121	230	56	260	é.	00	1087	4	010/	6	144	476									
				085	0075	-00	121	339	560	269	8		1001	•	0-0	Č	140	476									
				003	0 0000		0.60	336	57	270	8	00	0985	8	0132	2	144	+63									
				085	0100	-00	0.60	336	570	270	6		•	-			144	¥63									
				ST	D 0125	-00	014	337	75	271	3	00	0944	5	015	6	144	490									
				OBS	0125	-00	014	337	750	271	3						144	490									
				ST	D 0150	00	22	338	35	271	9	00	0886	4	017	9	14	512									
				OBS	0150	00	22	338	350	271	9						14	512									
				ST	D 0200	01	107	34(	)5	273	0	00	0786	0	022	0	14	561									
				OBS	0200	01	107	34(	050	273	0						14	561									
				ST	D 0250	01	153	342	22	274	0	00	0690	9	025	7	145	592									
				085	0250	01	153	342	220	274	0						149	592									
				ST	D 0300	01	179	343	33	274	7	00	0629	94	029	0	148	514									
				OBS	0300	01	179	343	330	274	7						140	514									
				ST	0 0400	0 ]	180	344	+5	275	7	00	0543	16	034	9	146	532									
				OBS	0400	01	180	344	+50	275	7					_	140	632									
				ST	D 0500	01	150	344	+7	276	1	00	0507	16	040	Z	146	536									
				OBS	0500	01	150	344	470	276	1						140	536									

REFE	ENCE	SHIP		05	LON		MAR		STA TIO	N TIME	YFAR		RIGINAT	OR'S	_	DEPTH	MAX. DEPTH	OBS	WAVE	IONS	WE	A-	CLOUD			NOOC	1
CODE	NO.	CODE	•	1/10		1/10	10*	TP	MOIDA	Y HR. 1/1	5	NO.		TION MBER	- Þ	BOTTOM	OF S'MPL'	SOIL	HGTPE	R SEA	- 60	DE	TYPE AM	1		NUMBER	
31	8160	WE	7549	5 N	066	452W	259	56	09 2	3 055	1969	WE 2	024	<u> </u>	4	0190					0	0	0	[ ·	I	0024	]
								COLOR	TRANS.		ED MET	10- / TER 11 14) B			VIS. ODB	NO. OBS. DEPTHS	SPE DØSERN	CIAL ATIONS									
								DT	s	09 50	1 98	4 -0	19 -0	31		09	-										
		MESSENG TIME	CAST NO.	C A TY	RD PE	DEPTH (m)		л °С	5.	<. sı	GMA-T	SPECIFIC	VOLUME	≨∆ DĭN. x 1	"M.	SOL	DAL	02 ml/l	PO.	i−P 01/1	101AL- 10 - 01		NO2-N ¥9 - at/l	NO3-N 19 - al/1	51 D e-	-Si pH	200
							_		1			1										1					
			•	' s	тр'	0000	0	035	302	2	427	003	6576	000	00	144	410 '		1						•	-	•
		05	5	0B	s	0000	-0	035	3020	00 2	427					144	410										
				S	TD	0010	-0	015	310	) 2	491	003	0502	003	34	144	432										
				οВ	s	0010	-0	015	3100	00 2	491					144	432										
				S	TD	0020	0	057	320	22	570	002	3012	006	50	144	481										
				oв	s	0020	0	057	320	20 2	570					144	481										
				S	TD	0030	C	050	324	72	606	001	9541	008	82	144	486										
				οв	s	0030	0	050	324	70 2	606					144	486										
				S	то	0050	-0	055	331	1 2	663	001	4178	011	15	14	450										
				08	S	0050	-0	055	331	10 2	663					14	450										
				S	TD	0075	-0	059	333	1 2	679	001	2622	014	49	14	455										
				06	S	0075	-0	059	333	10 2	679					14	455										
				S	TD	0100	-0	046	334	72	691	001	1443	017	79	14	467										
				ОВ	S	0100	-0	046	334	70 2	691					14	467										
				S	TD	0125	-0	027	335	72	699	001	0756	020	07	144	481										
				OB	S	0125	-0	027	335	70 2	699					14	481										
				S	TD	0150	-0	010	336	52	705	001	0145	023	33	14	495										
				06	s	0150	-0	010	336	50 2	705					144	495										

REFEREN	ICE	5410					MAR	SDEN	STA	TION	TIME		1	ORIGI	NATO	R*S		DEPTH	MA	X.	w	AVE		WEA	- CL	oup			2006	
CTRY I	۱ <b>۵</b> . ۵۷.	CODE	LATITU	1/10	LONGI	UDE 88	10	ARE 1°	MO	(GMT) DAY	HR,1/10	YEAR	CRL	UISE IO.	STAT	ION		DT DA	S'MP	."s	OBSER	থেনা ভাগি	IONS	CODE	C (	DES	7	S. N	UMBER	
3181	160	WE	7548	4N	0672	40W	259	57 WA COLOR CODE	09 TER TRAN	23	098 WIND SPEED OR FORC	1969 8AR MET	W ER #}	E 2 0	25 EMP. W	TET C	VIS.	0060 NO. OBS. DEPTHS	OBSEI	PECIAL	L ON S	1		02	0	0	1		0025	
								DT	S	04	503	99	0	-039				05			-									
		MESSENGR TIME H.R. 1/10	CAST	CAR	10 C	)EPTH (m)	т	°C		•4.	stG	MA-T	SPEC	CIFIC VOL	UME (167	Z C DYN X	10 ³	SO VEL	UND OCITY	02	m1/1	PO.	1-P 01/1	101AL-P 99 - 01/1	N0; #9 -	a1/I	NO3-N 49 - 01/1	51 O 4-51 µg - a1/1	рH	500
				1									1																	T
				S1	٢D	0000	-0	020	30	00	24	11	00	03816	50	00	00	14	414											
		098	3	OBS	5	0000	-0	020	30	000	24	11						14	414											
				S1	r D	0010	0	010	30	75	24	70	00	03251	. 3	00	35	14	440											
				OBS	5	0010	0	010	30	750	24	70						14	440											
				51	D	0020	0	057	31	95	25	64	00	02354	+6	00	63	14	480											
				OBS	5	0020	0	057	31	950	25	64						14	480											
				51	D	0030	0	000	32	57	26	17	00	01854	+1	00	84	14	464											
				OBS	5	0030	0	000	32	570	26	17						14	464											
				SI	D	0050	-0	055	32	90	26	46	00	01578	34	01	19	14	447											
				085	5	0050	-0	055	32	900	26	46						14	447											

REFER	ENCE	SHIP				E N	ARSDEN	STAT	ON TI	IME		C	RIGINA	OR'S		DEPTH	MAX.		WA	V€	V	VEA-	CLO	10			NODC	1
CTRY	10.	CODE	LATITU	106	LONGITUDE	8 g	SOUARE	"	MTI		YEAR	CRUISE	\$1	TION		10 ROLLOM	OF	OSS	2874	TIONS		HER	COD	23			STATION	
	NU.			1/10	.1/10	- '	0. 1.	MOD	AYH	R,1/10		NO.	N	MBER			S*MPL*S	OIR	HGT	PER SI	LA C		TYPE	MT			NUMBER	-
318	160	we	7545	3N I	067440W	29	59 57	09.2	3 1	05	1969	WE2	026			0210						0 Z	0	0			0026	
							w,	ATER	W	VIND	BAR	- <u>^</u>	IR TEM	ъ. °С		NO.	SPEC	-141										
							COLO	R TRANS. Sm3	D1R.	SPEEO OR FORCE	(mbs	R [] ) BL	RY JLB	W ET BULB	CODE	OBS. DEPTHS	OBSERV	A TION S										
							DT	s_	04	503	991	5 00	00 -	011		10												
		MESSENG TIME HR 1/10	CAST NO.	CAP	е обърти	lm s	ı, Ç	s	•/	SIGN	1-AA	SPECIFIC	VOLUM	ŧ S DY X	∆ D N. M 10 ³	. SOU	DOITY	02 ml/i	P.	04-P   - 01/(	101A #9.	L = 7 a1/1	NO2- 29 - 01	и и /I и	03-N 1 - 01/1	51 O4- 99 - 64	Si pH	
										1									1		-			1				+
				S1	000 01	0	0030	316	5	254	42	0025	5717	00	000	144	460											
		10	5	083	5 000	0	0030	316	50	254	42					144	460											
				\$1	rD 001	0	0046	322	0	258	35	002	1587	00	24	144	477											
				OBS	5 001	0	0046	322	00	258	35					144	477											
				S	rD 002	0	0046	325	5	261	13	0018	3913	00	)44	144	483											
				OBS	5 002	0	0046	325	50	261	13					144	483											
				S1	D 003	0	0015	328	3	263	37	0016	624	00	62	144	475											
				OBS	5 003	0	0015	328	30	263	37					144	475											
				S1	D 005	D -	-0037	332	4	26	73	0013	3256	00	92	144	460											
				OBS	5 005	- 0	-0037	332	40	26	73					144	460											
				SI	0 007	5 -	-0040	334	5	269	90	0011	630	0.	23	144	465											
				OB S	5 007	5 -	-0040	334	50	269	90					144	465											
				51	0 010	- 0	-0010	330	6	270	15	0010	1156	01	150	144	486											
				ORS	5 010	0 - c	-0010	336	60	270	25			. 1		144	486											
				5	0 012		0027	331	1	271	12	0005	/502	0.	L / 4	14:	509											
				UBS	012		0027	331	10	27	12	0000		0.1	0.0	14:	509											
				51	015	0	0049	338	6	271	18	0008	9938	0.	198	14:	524											
				083		0	0049	328	20	27	18	000		0.7		143	524											
				0.00	020	0	0068	230	20	212	22	0001	2242	04	- 41	14:	542											
				003	s 020	0	0068	لادو	20	214	< <b>Z</b>					143	242											

REFERENCE	SHIP	LATITU	DE		MARS SQU		STAT	ION 1		YEAR		CRUISE NO.	RIGIN A ST	TDR'S	N R	DEPTH TO BOTTO	MAX DEPTH OF S'MPL	i s	OBSE	WAY ERVA	VE TIONS	S	WEA- THER CODE	CL	DUD	7		NODC STATION NUMBE	J R
	+	-		04754844	1250	6.7	0.0	22	121	106		WED	027	,		0.260		+-		-			03	2	7	-		002	7
1 318160	DIWEI	7536	UNI	00120041	1259		TER		WIND	190		1 4	IR TEM	P. °C			1	. I.			1		•••			'			
						CDLOR	TRANS Imt	DIR.	SPEE OR FORG	P M	ETER nbsi	E BI	JLE	W ET BULE	COD	DEPTHS	DBSER	VATIO	DNS										
						OT	s	00	500	) 9	95	-0	33	019	9	11													
	MESSENGE TIME HR 1/10	CAST	CAR TYP	D DEPTH (m)	г	r	s	•/	sic	MA-T		ANOM	VOLUA	A.E	₹ ∆ D DYN. M X 10 ³	- SO VEL	UND	02	m1/1	Pi v g	04-P	τo Ψ	g = ot/l	NO; #0 -	-N al/1	NO ₃ -N µg - ol/l	S1 Ο4- μg - α	-Si H/I pi	1 0
																							1				i i		
			์ sт	0 0000	0	009	32	53	26	13		001	3898	) (	0000	14	463												
	121	L	OBS	0000	0	009	32	530	26	13						14	463												
			ST	0 0010	00	009	32	53	26	13		001	3894	. (	019	14	464												
			085	0010	00	009	32	530	26	13						14	464												
			ST	0 0020	-00	050	32	99	26	53		001	5128		036	14	445												
			085	0020	-00	050	32	990	26	53						14	445												
			ST	D 0030	-0	110	33.	28	26	78		001	2694	• •	050	14	423												
			OBS	0030	-0	110	33.	280	26	78						14	423												
			ST	D 0050	-0	080	33	44	26	90		001	1559	) (	074	14	443												
			085	0050	~0(	080	33	440	26	90						14	443												
			ST	0 0075	-0	050	33	50	27	02		001	0443	5 (	0102	14	463												
			OBS	0075	-0	050	33	600	27	02						14	463												
			ST	D 0100	0	000	33	74	27	11		000	9595	6 (	0127	14	492												
			OBS	0100	0	000	33	740	27	11						14	492												
			ST	D 0125	0	044	33	84	27	17		000	9063	3 (	0150	14	518												
			OBS	0125	0	044	33	840	27	17						14	518												
			ST	D 0150	0	073	33	97	27	26		000	8245	; (	3172	14	537												
			OBS	0150	0	073	33	970	27	26						14	537												
			ST	0 0200	0	138	34	14	27	35		000	7392	2 (	211	14	576												
			OBS	0200	0	138	34	140	27	35						14	576												
			ST	D 0250	0	167	34	26	27	43		000	6712	2 (	0246	14	599												
			OBS	0250	0	167	34	260	27	43						14	599												

													T				-			<b>r</b>						T	_			
REFE	ENCE	SHIP			LON		MAR	ARE	STAT	ION T	IME	VEAD	L	DRIGIN	ATOR	s	[ D	EPTH	DEPTH	OBS	WAN FRVA	VE JIONS	WEA	·-	CLOU				NODC	
CODE	ID. NO.	CODE	1/10			1/10 E E	10*	1 1*	MOLI		48.1/10	10.00	CRUISE NO.		STATIONUME	DN IER	BO	NOT	OF	003	Lucit		- 200	ie –	TYPE TA				UMBER	
-+				10 10		., , , ,		+		<u> </u>	10.17 10		-				-		3 // 16 /					-+		<u> </u>		-+-		
31	8160	WEI	7527	ONI	068	3120W1 1	259	158	091	23 [	135	<u>1969</u>	WE2	02	8		103	310		ارا	ιı		1 02	: 1	217			1	0028	
								WA	T	Ľ	SPEED	BAR	<u>p-</u>	AIK IE	м. (		.] ;	NO.	SPEC	CIAL										
								CODE	Im)	DIR.	OR	(mb	CK   6)   E	ULB	BUI		פסףי	EPTHS	OBSERV	ATIONS										
								0.T	c	00	600	100		0.2	1.01		1.													
			1				1	DI	<u>1</u> 3	100	1300	99	5 80	05		.9	1	12			1			Т-		1	T		1	т
		MESSEN GI	CAST	CA	RD	DEPTH (m)	т	°C	s	•/	SIG	MA-T	SPECIFI	VOLU	JME	Z A D	A.	SOU	ND	D2 ml/l	PC	24-8	10141-	1	NO2-N	ND3	-N	5104-5	ын	10
		HR 1/10	1													X 10 ³		VILO				- 01/1	¥g - a1/	' <b>`</b>	vg - ol/	- 94	01/1	yg - 61/	· .	6
				, s	יסז	0000	0	000	326	58	26	26	001	771	2	0000	່	144	61											
		13	5	08	s	0000	0	000	320	580	26	26						144	+61											
				S	ΤD	0010	0	010	32	75	26	31	001	721	8	0017	7	144	+68											
				0 B	s	0010	0	010	32	750	26	31						144	+68											
				S	TΟ	0020	-0	056	33	81	26	68	001	365	2	0033	3	144	+45											
				OB	s	0020	-0	056	33	180	26	68						144	45											
				S	ТD	0030	-0	090	33:	36	26	84	001	214	6	0046	>	144	+33											
				0B	S	0030	-0	090	33:	360	26	84			_			144	+33											
				S	TD	0050	-0	090	33	53	26	98	001	083	5	0069	•	144	+39											
				OB	S	0050	-0	090	33	530	26	98			-			144	+39											
				S	TD	0075	-0	037	336	56	27	06	001	004	0	0095	>	144	+70											
				OB	5	0075	-0	037	33	560	27	06		~ ~ ~		0100		144	+70											
				S	10	0100	0	025	33	13	21	09	000	919	9	0120	,	14	203											
				UB	5	0100	0	025	32	130	21	22	000	94.9		0143	,	14:	203											
				08	c	0125	0	043	230	220	27	22	000	040	0	0143	,	14.	27											
				6	- т∩	0120	0	003	341	30	27	23	000	911	0	0163	2	14.	544											
				08	5	0150	ň	000	341	000	27	27	000	011	0	010.	·	145	544											
				S	то	0200	ŏ	132	34	14	27	35	000	734	9	0202	,	145	574											
				08	s	0200	ŏ	132	34	140	27	35						145	574											
				ŝ	TO	0250	ŏ	164	34	27	27	44	000	661	4	0237	7	145	598											
				OB	s	0250	Ó	164	34	270	27	44						145	598											
				S	тD	0300	0	184	34	36	27	49	000	610	8	0269	,	146	16											
				08	s	0300	0	184	34	360	27	49	-					146	516											

REFERENCE	SHIP	LATITUDE LONGITUDE			MARS	DEN	STATIC		E	YEAR	COUNT	DRIGIN	ATDR"		DEPTH	4 p	MAX. EPTH	085	WAV	e Tions	WEA	CLC				NDDC	
ODE ND.	CODE	•	1/10	·1/10	10*	1.	MD D	Y HR.	1/10		ND.		NUMBE	R	BOTTO	w 2.	MPL'S	DIR	HGT	PER SE	A CDD	TYPE	A /41			NUMBER	
31816	OWE	7517	ONIO	68240W	259	58	09 Z	3 119	52 1	969	WE2	02	9		044(						02	2	7			0029	
					1	WAT	ER	WI	ND	RAR	D	AIR TE	мр. °С		NO.	Τ											
					- 1	COLOR	TRANS.	DIR.	OR	MET	ER	DRY	W E1	COD	085.	08	BSERVA	TIONS									
					ŀ	CODE	100 5		FORCE	(mb	•)	SULB	BUL			-											
				,		DT	S	29 5	502	99	4 -0	03	-03	9	13												
	MESSENG TIME HR 1/10	CAST ND.	CARD TYPE	DEPTH (m)	τ	°C	5.	<i>.</i> .	SIG A	T-A	SPECIFI	C VOLU	ME 07	∑ ∆ D DYN. M X 10 ³	. SI	LOCI	יז או	D₂ m1/1	PO PS ·	4—P - at/l	FQTAL=P yg - o1/1	NO2 19	~N 01/1	NO3-N Vg - at/l	SID4- ¥9 - at	Si pH	s c c
		1					-										_			- 1					_	-	+
	1		STD	0000	-00	28	3270	<b>)</b> '	262	29	່ວວາ	744	2	0000	<u>'</u> 14	444	8			I				1		1	1.1
	15	2	OBS	0000	-00	28	3270	0	262	9					14	444	8										
			STD	0010	-00	35	3274	÷	263	32	001	710	4 1	0017	14	444	7										
			OBS	0010	-00	35	3274	+0	263	32					14	444	7										
			STD	0020	-00	90	3320	)	267	1	001	337	7	0033	14	443	0										
			OBS	0020	-00	90	3320	00	267	1					14	443	0										
			STD	0030	-01	.09	3330		268	35	001	208	4 1	0045	14	44Z	5										
			OBS	0030	-01	.09	3330	50	268	35			_		14	442	5										
			STD	0050	-01	18	3344	+	269	9Z	001	143	2	0069	14	44Z	5										
			OBS	0050	-01	18	3344	+0	269	72			-		14	442	5										
			STU	0075	-01	30	325:		270	1	001	053	1	0096	14	442	5										
			005	0075	-01	.30	3333	50	270	1	~~~	001	2		1.	44Z	2										
			000	0100	-00	101	334		270	19	000	301	5	5122	1.	+ 4 4 6 / /	0										
			510	0125	-00	126	337	2	271	6	000	916	0 1	1145	1	444 448	5										
			085	0125	-00	26	3378	30	271	6	000		•		i	448	5										
			STD	0150	00	22	339		272	4	000	840	8 (	0167	14	451	3										
			OBS	0150	00	22	339	lo l	272	4			-	- • •	14	451	3										
			STD	0200	00	88	341	3	273	8	000	712	9 (	0206	14	455	4										
			OBS	0200	00	88	341	30	273	8					14	455	4										
			STD	0250	01	40	342		274	1	000	688	9 (	0241	14	458	7										
			OBS	0250	01	40	342	0	274	1					14	45 B	7										
			STD	0300	01	87	343	7	275	0	000	605	6 (	0274	14	461	8										
			OBS	0300	01	87	343	0	275	0					14	461	8										
			STD	0400	01	92	344	i	275	6	000	553	5 (	)332	14	463	8										
			OBS	0400	01	92	344	50	275	6					14	463	8										

REFER	ENCE	SHIP	LATITU	DE	LON		MARS	DEN ARE	STAT	ION TI GMT)	ME	YEAR	C 21 11	DRIGIN	ATOR'S		DEPTH	MAX, DEPTH	D85	WA' SERVA		W EA-	CLOUD			NODC	
ODE	ND.	CODE	•	1/10		· 1/10	10*		MD	AY	R.1/10		ND		NUMBE	ξ.	EDITOM	S'MPL"	S DIR	HGT	PER SE	CODE	ITPL AV	1		NUMBER	
2.2		ur	35.03	0.11		25011	25.0	5.0	20						~		0.000	1		1-1	_				-		
210	3190	IWEI	1501	UNI	068	1350WI I	239	158 II WAT	<u> 1914</u> Er	31	109	1969	IWE.	AIR TE	U MP T	T	0620	r	<u> </u>	1	I	1 02	1 3 1	1	1	0030	
								CDLDR	TRANE		SPEED	BAR		DRY	WET	VI	DBS.	SPE	CIAL								
								CODE	imt	UR.	OR FORCE	(mb	1	BULB	BULB	1000	DEPTHS	Destav	~ 110113								
							[	DT	S_	17	S03	99	4 - 1	)19	-039	7	15										
		MESSENGE	CAST	CA	RD	DEPTH (m)	т	°C	s	•/	5167	T-AN	SPECIE	C VOL	ME		SDI	UND	() a mi/i	PI	04-P	TOTAL-P	ND2-N	ND3-N	51 D.4-	-Si	5
		HR 1/10	I NO.	11	PE								ANO	MALT-X	°   '	X 10 ³	VELO	DCITY		- P9	- 01/I	ا/to• وµ	9g - 01/l	µg - αt/1	hð - a	71 21	č
																								-		-	-1-
				' s'	то'	0000	→0(	030	325	i4	26	16	່ດດ	865	ຄ່	000	่าน	445 [']			1						
		169	,	OB	s	0000	-00	030	325	40	26	16	•••				14	445									
				S	TD	0010	-00	35	325	4	26	16	00	1863	4 0	019	14	444									
				<b>0</b> B:	s	0010	-00	)35	325	40	26	16					14-	444									
				s	TD	0020	-00	85	330	15	26	59	00	1454	3 (	035	14	430									
				OB:	s	0020	-00	85	330	50	26	59					14	430									
				S	ŤD	0030	-01	119	333	15	26	84	00	213	0 0	049	14	420									
				OB.	S	0030	-01	119	333	150	26	84			~ ~	<u> </u>	14	420									
						0050	-01	19	334	4	26	92	00	142	9 (	072	14	424									
				OB:	5	0050	-01	19	334	40	26	92	0.0			100	144	424									
				00	10 c	0075	-01	23	333	00	20	91	00	1094	2 (	100	14	421									
				CD.	TD	0100	-01	129	336	6	20	10	000	104 2	6 C	124	14	421									
				08	s	0100	-01	48	336	60	27	10	000	1702	0 0	120	14	422									
				S	TD	0125	00	006	337	5	27	12	000	954	4 C	150	14	499									
				OB:	s	0125	00	006	337	50	27	12					14	499									
				s	TD	0150	00	27	338	0	27	15	000	927	1 0	173	14	513									
				0B.	s	0150	00	27	338	00	27	15					14	513									
				S	τD	0200	01	80.	341	0	27	34	000	)748	8 C	215	14	562									
				OB.	S	0200	01	08	341	00	27	34					14	562									
				S	TD	0250	01	180	343	1	27	46	000	643	4 0	250	140	606									
				OB	S	0250	01	180	343	10	27	46				_	146	606									
				S	TD	0300	02	204	344	0	27	51	000	)596	8 C	281	140	626									
					5 TD	0500	0,	204	344	00	27	51	~ ~ ~			220	140	626									
				08	c .	0400	0.	231	345	20	21	28	000	1239	0 (	228	140	020									
				5	TD	0500	0.2	209	345	5	21	28 63	0.04	1497	3 (	300	140	663									
				ОB	s	0500	0:	209	345	50	27	63	000	, , , , ,		- 70	140	663									
				ŝ	τD	0600	0	123	345	4	27	68	000	)436	1 0	436	14	642									
				OB	s	0600	0	123	345	40	270	58				0	140	642									

REFERENCE CTRY ID. CODE ND.	SHIP CDDE	LATITU	DE		DRIFT	M A R SD U			DN TI SMT	ME R 1/10	YEAR	CRUISI NO.		ATDR'S		108 801	EPTH TD TTDM	MAX. DEPTH DF S'MPL'S	DBS	WAVE SERVATION		WEA- THER CODE	CLDI	JD IES		1	NDDC STATION NUMBER	
			1/10		11					2.0		1	0.2				20	-			1	0.2	2	2			0021	1
318160	IWEI	7458	0 N 1	068525W	1 1	259	48 WAT	09. 2 ER	3 1	88   (IND	1963	IWE2	AIR TE	1 NP. °C	- <u>_</u>	109	0.0		L	1 1	1	1 02	יכו	ا و		I	0031	3
							COLDR	TRANS	DIR	SPEEC	MET		DRY	WET		0	085.	SPE( DBSERV	CIAL ATIONS									
							CODE	(m)	UIR.	FORC	E (mb	0   I	BULA	8016		DEI	PTHS											
							DT	s	80	S05	99	6 - C	09	-028	1 7	1	8											
	MESSENGR	CATT	C 10			1					_	SPECIE			ξΔD	Ť	101	ND		20.	_,	10141	ND		ND. N	90		Т
	TIME	NO.	TYP	E DEPTH	(m 1	1 1	°C	S	•/	SIG	MA-T	ANDA	AALY-EI	<u>،</u> ا	YN. M x 1n ³	۱.	VELD	CITY	0 2 ml/l	P9 - 1	/I	pg + o1/1	vg - ol	7	103-01/1	yg - al/	1 9H	- 18
	HR 1/10							+		+				+		+				-		-		+				+
			_	-	~				-	1		1					• • •	. E /		1				I			1	
			51	0 000	0	0	002	321	5	22	63	002	111	2 (	000	'	144	54										
	188		085	000	0	0	002	321	50	20	27	001	75.0	2 0	0.20		144	40										
			080	001	ñ	-0	030	326	80	26	27	001	150	5 0	020		144	49										
			ст ст	0.001	ň	-0	127	332	4	26	76	001	295	7 0	035		144	13										
			085	002	õ	-0	127	332	40	26	76						144	13										
			ST	D 003	0	-0	149	334	4	26	93	001	135	50	047		144	07										
			OBS	003	0	-0	149	334	40	26	93						144	07										
			ST	0 005	0	-0	142	334	5	26	93	001	128	50	070	)	144	14										
			085	005	0	-0	142	334	50	26	93						144	14										
			ST	D 007	5	-0	161	335	5	27	02	001	045	0 0	097		144	10										
			085	007	5	-0	161	335	50	27	02						144	10										
			ST	D 010	0	-0	137	336	3	27	08	000	988	8 0	122		144	21										
			OBS	010	0	-0	137	336	30	27	08	000	0.24	<u> </u>	1		144	21										
			51	0 012	2 E	-0	021	331	20	21	15	000	920	0 0	140		144	.07										
			003	012	0	-0	018	338	1	27	18	000	896	3 0	169	,	144	93										
			085	015	õ	-0	018	338	10	27	18	000					144	93										
			ST	D 020	ō	ō	027	339	8	27	29	000	789	8 0	211		145	24										
			085	020	ō	ŏ	027	339	80	27	29						145	24										
			ST	D 025	0	ō	072	341	4	27	39	000	695	5 0	248		145	55										
			OBS	025	0	0	072	341	40	27	39						145	55										
			ST	D 030	0	0	100	342	3	27	45	000	646	50	282		145	77										
			085	030	0	0	100	342	30	27	45						145	577										
			ST	D 040	0	0	219	344	8	27	56	000	553	90	342		146	50										
			OBS	040	0	0	219	344	80	27	56		5.24	~ ~	201		146	50										
			51	0 050	0	0	226	340	2	21	59	000	1534	9 0	596		140	70										
			085	D 050	0	0	220	340	20	21	59	000	6 2 2		44.0		140	70										
			080	060	ñ	0	207	340	20	21	60 60	000	522	0 0	749		140	79										
			003	n 070	ň	ň	170	345	20	27	62	000	501	1 0	500		140	79										
			085	070	õ	n n	170	345	10	27	62	000	501	. 0	- 00		144	79										
			ST	D 080	õ	ŏ	132	345	ĩ	27	65	000	471	1 0	549	,	146	79										
			OBS	080	0	ŏ	132	345	10	27	65	•					146	79										
			ST	D 090	0	0	100	345	1	27	67	000	446	0 0	595		146	81										
			085	090	0	0	100	345	10	27	67						146	81										

REFER	ENCE	SHIP				MARSDEN	STATION TH	ME	ORIGINATI	DR*S	OEPTH DEP	IH OBS	WAVE	WEA	CLOUD			1000	
CIRY	10. NO.	COOF	•	1/10	1/10 ²	10- 11-	MO LOAY HE	21/10	CRUISE STA	TION MBER	BDTTOM S'M		HGT PER SI	CODE	TTPI LAM		N N	UMBER	
+											1020					1			
318	3160	WEI	7448	ON 106	9060W	2591491 WA1	09.123.12 TR   W	03   1969 IND	IWE2 032	τ		<u> </u>	11	1 03	1 3 4	'		00321	
						COLOR	TRANS DIR	SPEED MET	ER DRY V	VIS.	OBS. OBS	PECIAL							
						CODE	(m) UIA	FDRCE (mbi	1 BULB B	ULB	DEPTHS								
						DT	s 00	s00 00	7 - 009 - 0	28 7	19								
		MESSENGE	CASE	CARD					SPECIFIC VOLUME	₹∆o	SOUND	1	POUR		NOREN	NOUN	5105		5
		TIME 0	NO.	TYPE	DEPTH (m)	ΤC	\$	SIGMA-T	ANOMALY-1107	DYN. M X 103	VELOCITY	D2 ml/l	µ0 - 01/1	101×12-1	µg - al/1	µg - ai/l	µg - αi/i	pН	c
	1																		ł
	I		1 1	C T D	0000	0022	2217	2594	0021711	0000	14464	1	!	1	I			1	ł
		203		085	0000	0023	32170	2584	0021711	0000	14464								
		200		STD	0010	0023	3270	2626	0017660	0020	14473								
				OBS	0010	0023	32700	2626			14473								
				STO	0020	-0085	3318	2670	0013547	0035	14432								
				OBS	0020	-0085	33180	2670			14432								
				STD	0030	-0127	3334	2684	0012183	0048	14416								
				OBS	0030	-0127	33340	2684			14416								
				STD	0050	-0155	3346	2694	0011173	0072	14408								
				OBS	0050	~0155	33460	2694			14408								
				STD	0075	-0142	3360	2705	0010119	0098	14420								
				UBS	0075	~0142	33600	2705	0000040	0100	14420								
					0100	-0128	3304	2708	0009840	0125	14431								
				003 STA	0100	-0126	3378	2708	0008761	0146	14431								
				OBS	0125	-0126	33780	2719	0000701	0140	14438								
				STO	0150	0038	3391	2723	0008496	0168	14520								
				085	0150	0038	33910	2723	00000000	•-••	14520								
				STD	0200	0050	3405	2733	0007500	0208	14536								
				OBS	0200	0050	34050	2733			14536								
				STD	0250	0082	3425	2748	0006186	0242	14561								
				OBS	0250	0082	34250	2748			14561								
				STD	0300	0150	3440	2755	0005542	0271	14602								
				OBS	0300	0150	34400	2755			14602								
				510	0400	0224	3454	2761	0005131	0325	14653								
					0400	0224	34540	2761	0005242	0277	14675								
				085	0500	0239	34550	2760	0007242	0511	14676								
				STD	0600	0182	3455	2765	0004780	0427	14668								
				OBS	0600	0182	34550	2765			14668								
				STO	0700	0143	3452	2765	0004703	0474	14667								
				OBS	0700	0143	34520	2765			14667								
				STO	0800	0111	3450	2766	0004608	0521	14669								
				OBS	0800	0111	3455P	2770P											
				STD	0900	0088	3449	2766	0004509	0566	14676								
				OBS	0900	0088	34490	2766	000/273		14676								
				510	1000	0070	3449	2768	0004371	0011	14684								
				UB2	1000	0070	54490	2168			14084								

REFER	ID.	SHIP CODE		10 LO	NGITUDE		SDEN ARE	STAT	GMT	ME R.1/10	YEAR		ORIGI IISE O.	NATO STATI NUM	R'S ON BER	-	DEPTH TO SOTTOM	MAX. DEPTH OF S'MPL'S	OB DIR	WA SERV	VE ATIONS	EA	WEA- THER CODE	CLOUD CODES	Ŧ		NODC STATION NUMBER	
		ue	7/5001	. 07	04.25	260	4.0	00	0.0	0.2	1960		= 2 01	1 2			0820		1	1			70	6 8			0033	
. 210	5100	WC '	145901	1 01	0427#1	1200	WA1	TER	W IS	IND		10+	AIR T	EMP.	C ,		NO.	Spr		ו	• •					,	0055	
							COLOR	TRANS.	DIR.	SPEED OR	MET	ER	DRY BUILB	BU		ODE	OBS. DEPTHS	OBSERV	ATIONS									
										FORC		-				_				1								
							DT	<u>IS</u>	27	512	00	14 -	-006	<u> </u>	16 1					1					-	T		
		MESSENGR TIME	LCAST	CARO	DEPTH (m)	-   T	۳C	S	•/	SIG	MA -T	SPEC	OMALY-	UME 107	οiν.	. M.	SOL VELC		02 m1/	<u>ا</u> ا	PO4-P	10	TALAP	NO2-N	NO3-N	5104-	-SI pH	č
		HR 1/10				_								_	X 1	0.3	-			-1'					- pg - 01/1	Pu - 0		
						1		ł				1																
				STO	0000	-0	800	329	0	26	12	00	01909	54	000	00	14	455										
		002	C	BS	0000	-0	800	32:	000	26	12	0.0	140	15	001	17	144	477										
			0	SIU RC	0010	-0	090	330	000	26	55	00	14)		00.		14	425										
				STD	0020	-0	143	333	7	26	87	00	01191	15	003	30	14	407										
			С	BS	0020	-0	143	333	70	26	87						144	407										
				STD	0030	- 0	152	334	8	26	96	00	01104	41	004	+2	144	406										
			C	BS	0030	-0	152	334	80	26	96	~		<b>.</b>	~~~		14	406										
			~	SID	0050	-0	123	220	.00	21	06	00	1010	J4	000	22	149	411 611										
			0	STD	0075	-0	140	336	6	27	10	00	00966	55	008	38	14	422										
			c	18S	0075	-0	140	336	60	27	10						14	422										
				STD	0100	-0	110	337	6	27	17	00	0898	31	011	11	144	441										
			С	BS	0100	-0	110	337	60	27	17						14	441										
				STO	0125	-0	038	338	7	27	23	00	00841	19	013	33	144	480										
			0	STD	0125	-0	038	330	170	21	23	00	10828	22	019	54	144	400 515										
			0	BS	0150	ŏ	027	339	30	27	25		0020		•••		149	515										
				STO	0200	ō	075	341	4	27	39	00	0697	70	019	2	14	548										
			С	85	0200	0	075	341	40	27	39						14	548										
				STD	0250	0	115	342	8	27	48	00	00618	32	022	25	14	576										
			0	BS	0250	0	115	342	80	27	48	~			0.20		149	576										
			0	SID	0300	0	149	343	70	27	53	00	10210	51	025	20	140	601										
			0	STD	0400	0	168	344	7	27	59	00	00518	38	030	)9	140	627										
			C	85	0400	0	168	344	70	27	59						140	627										
				STD	0500	0	156	344	9	27	62	00	049	74	036	50	140	639										
			С	BS	0500	0	156	344	90	27	62				~ ~ ~		14	639										
			~	STD	0600	0	133	345	1	27	65	00	00466	57	040	18	140	646										
			U	STD	0700	0	193	345	10	21	67 68	00	10434	44	049	13	140	643										
			c	BS	0700	0	090	349	10	27	68	00		• •	0.5		140	643										
				STO	0800	ŏ	034	34	0	27	71	00	00400	00	049	95	140	635										
			C	85	0800	0	034	349	00	27	71						140	635										

REFER	IO. HO.	SHIP CODE	LATTUOE	LC		DRIFT	SOU	DEN ARE	STAT	GMTI	ME	YEAR	O	RIGIN	TOR'S		DEP1 TO BOTTO		MAX. DEPTH OF	OBSE	WAVE RVATIONS	WEA THER	CLOI	U D DES			NDDC	(
-+-			//	10		-	10*	P +	MOLD	AY H	R_1/10		NO.	N	UMBER	_			S'MPL'S	OR I	IGT PER 5	EA	TYPE	AMT			NUMBER	
318	3160	WE I	750701	4   07	70280w i	_ L;	260	50 0	09 2	4 0	17.1	969	WE2	034	<u>ا</u>		062	0				70	X	9			0034	
							ŀ	WAT	ER		IND	BARO	- A	IR TEN	P. °C	VIS	NO.		SPEC	IAL								
								COLOR	Uni	OR.	FORCE	METER (mbs)	8 D.	RY LB	WET BULB	COD	DEPTI	н <u>г</u> с	OBZERV	A TION S								
								DT	s	00	\$00	014	00	16	006	7	15											
		MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH G	n)	т	Ċ	s	•/	SIG M.	A-T	SPECIFIC	VOLUA LY-X10		△ 0 N. M 10 ³		SOUN	NO VIII	0 2 ml/l	PO4-P 20-01/1	TDTAL-P µg = ot/l	NO ₂ - µg - al	N /	NO3-N µg - al/l	SI O4-S 49 - 01/	на п	s c c
																	+			_				+			1	+
				STD	0000	. '	-00	10	325	5	261	6 '	0018	663	່ດ	იი	່າ	44	54					1	1		1	Ļ
		017	, c	BS	0000		-00	10	325	50	261	6	0010				i	44	54									
				STD	0010		-00	16	326	4	262	3	0017	946	00	18	ī	44	54									
			C	BS	0010		-00	16	326	40	262	3					ī	44	54									
				STD	0020		-01	22	332	3	267	5	0013	048	00	34	ī	44	15									
			C	8S	0020		-01	22	332	30	267	5					1	44	15									
				STD	0030		-01	50	334	9	269	7	0010	969	00	46	1	44	07									
			0	BS	0030		-01	50	334	90	269	7					1	44	07									
				STD	0050		-01	59	335	7	270	3	0010	318	00	67	1	44(	07									
			0	BS	0050		-01	59	335	70	270	3					1	44(	07									
			0	STD	0075		-01	62	336	6	271	1	0009	604	00	92	14	44	11									
			0	65	0075		-01	62	330	50	271	1			. 1		1.	44	11									
			0	BC	0100		-01	52	321	2	271	5	0009	122	01	15	1.	44	21									
			0	STD	0100		-00	1.0	220	20	271	2			0.1		1	444	21									
			0	RS	0125		_00	40	238	60 60	272	2	0008	490	01	51	1	44	10									
			0	STD	0150		-00	07	330	6	272	9	0007	0/.7	01	60	1	44 1.51	10									
			0	BS	0150		00	07	339	60	272	R	0007	741	01	20	1	450	07									
			•	STD	0200		00	83	341	7	274	1	0006	794	01	95	1	450	52									
			0	BS	0200		00	83	341	70	274	1	0000		0-	11	1	45	52									
				STD	0250		01	28	343	2	2750	5	0005	971	02	27	- ī4	458	83									
			0	BS	0250		01	28	343	20	2750	C					14	458	83									
				STD	0300		01	55	344	2	2756	5	0005	429	02	55	14	460	04									
			0	BS	0300		01	55	344	20	2756	5					14	460	04									
				STD	0400		02	06	345	0	2759	9	0005	277	03	09	14	464	45									
			0	BS	0400		02	06	345	00	2759	9					14	464	45									
				STD	0500		01	93	345	2	2761	L	0005	059	03	60	14	465	56									
			0	BS	0500		01	93	345	20	2761	L					14	465	56									
				STD	0600		01	28	345	2	2766	5	0004	551	04	08	14	464	44									
			0	85	0600		01	28	345	20	2766	5					14	464	44									

REFE	REHCE	SHIP	LATTU	OE	LONGITUDE	DCTR	MARS	DEN ARE	STAT	ION T GMTI	IME	YEAR	CRUIS	ORIGI		S	DE	ЕРТН ТО	MAX. DEPTH	OBS	WAV ERVA		WEATHER	CLO				NOOC	
CODE	NO.		•	1/10	• '1/1	0 2	10*	1.	MOT	DAY	R.1/10	_	NO.		NUMS	ER	801	TTOM	S'MPL'S	OR.	HGI	PER SE	A CODE	TYPE	AMI			NUMBER	
31	8160	WE	7516	ON	070070		260	50		24 9	233 1 VINO	969	WE		5 MP. 7		05	570					71	x	9	-		0035	
								COLOR COOE		OIR.	SPEED DR FORCE	M ETE	n   R	DRY	W E RUL	T COC B	DE	NO. DBS. PTHS	SPEC OBSERV	ATION S									
								DT	s	34	\$10	00	5 - (	06	-00	6	1	4											
		MESSENGE TIME HR 1/10	CAST NO.	CAL	RD OEPTH	(m)	т	ť	s	•/	SIGM	A-T	SPECIF	C VOLL	IME 10 ⁷	₹ △ C DYN. A X 10 ³	À.	SOU VELO	NO CITY	02 m1/1	PO PO	- a1/1	TOTAL-P #9 - 01/?	NO2 99 -	-N 91/1	NO3-N µg - ot/l	\$1 O ₄ —5 yg - 61/	рН	s c c
							1				1														Í	-			T
				S	r0 000	0	-00	010	324	15	260	8	001	942	8	0000	)	144	53										1
		033		08	5 000	0	-00	010	324	50	260	8						144	53										
				08	S 001	0	-00	12	340	20	261	4	001	879	9	0019	)	144	54										
				SI	D 002	ŏ	-00	124	328	10	261	4	001	668	5	0037	,	144	55										
				OBS	5 002	õ	-00	24	328	00	263	6	001	000	-	0051		144	55										
				SI	D 003	0	-01	47	333	8	268	8	001	182	1	0051		144	07										
				OBS	5 003	0	-01	.47	333	80	268	8						144	07										
				S1	10 005	0	-01	58	335	5	270	2	001	047	5	0073	3	144	07										
				OBS	5 005	0	-01	58	335	50	270	2				_		144	07										
				ST	007	5	-01	29	336	4	270	8	000	985	1	099		144	27										
				500		0	-01	29	330	40	270	8	~~~	0.24		.1		144	27										
				089	5 010	õ	-00	05	237	30	271	4	000	920	4	5123	· .	144	48										
				ST	012	š	-00	23	338	6	272	2	000	856	4	1145		144	40 87										
				OBS	5 01 <u>2</u>	5	-00	23	338	60	272	2		020				144	87										
				S1	D 015	0	00	39	339	8	272	8	000	796	9	0166		145	21										
				085	6 015	0	00	39	339	80	272	8						145	21										
				ST	D 020	0	01	09	341	7	273	9	000	696	4 1	0203		145	64										
				085	5 020	0	01	09	341	70	273	9					1	145	64										
				51	025	0	01	54	343	1	274	8	000	623	6 1	)236	1	145	94										
				003	025	0	01	54	343	10	274	8			_		-	145	94										
				089	C 030	õ	01	69	344	0	275	4	000	568	8 (	)266		146	10										
				51	D 040	ŏ	02	28	345	00	275	4 7	000	546	~ ~	יכצו		146	10										
				OBS	5 040	0	02	28	345	ŏo	275	7	000	240	, ,	, , , , , , , , , , , , , , , , , , , ,	1	140	54										
				ST	0 050	0	01	72	345	1	276	ź	000	495	5 (	374	1	146	46										
				085	6 050	0	01	72	345	10	276	2					j	146	46										

														L MAX	I				Laure				1
REFERENCE	SHIP			E E	MARSOEN	STATE	ON TIM	E YE		ORIG	INATO	8.2	DEPTH	OEPTH	OB	W A SERV	A VE A TIQNS	WEA	CLOUE			NODC	
CTRY 10.	CODE	LAINUC	2E   1		101 1 1		A Y 140	1/10	-	CRUISE NO.	NUM	BER	BOTTON	M S'MPL		Ing.	T PER 5	CODE	TYPE AS	vi		NUMBER	
			1/10		10 1	molo	~ [16]		-							1							1
318160	WE	75250	о и п	69480W	259 59	09 2	4 0	48 19	69	WE2 0	36	<u>س</u>	0550	<u>با</u> لم	I	,I	11	185	91	I	I	0036	1
					w,			NO	BARO	AIR	EMP.	vis.	NO.	SPE	CIAL								
					COLO	TRANS. Imi	D1R.	OR I	(mbs)	BULB	BL		OEPTH	SOBSERV	ATIONS								
						+							1.	+		1							
						15 1	34 ]	510	95:	5 F006	-0	061	114	<u> </u>		L.,			<b></b>	1	1		
	MESSENGR	CAST	CARD		τ°c	s	•/	SIGMA	-т	SPECIFIC VO	LUME	ΣΔ0 01N. N	. sc	DUND	02 mi/i	۱Ľ	PO4-P	TOTAL-P	NO2-N	NO3-N	SI O4	-Si pH	- S
	HR 1/10	NO.	TYPE						[			X 103	VE	LOCITY		-	µg • a1/1	µg • e1/l	10 + 01/1	1\to - 94	99 - QU		C
									- 1										1				
	I		6.7.0	0000	0023	226	ว ่	2623	. '	00179	98	່ດດດດ	<u></u> 14	449				•					•
	0.40		086	0000	-0023	326	30	2623		00117	/ 0	0000	14	449									
	040	,	510	0010	-0024	327	õ	2628		00174	54	0018	14	452									
			OBS	0010	-0024	327	00	2628					14	4452									
			STO	0020	-0110	332	5	2676		00129	30	0033	14	421									
			OBS	0020	-0110	332	50	2676					14	421									
			STO	0030	-0145	334	0	2689		00116	73	0045	14	408									
			OBS	0030	-0145	334	00	2689					14	408									
			STO	0050	-0150	335	3	2700		00106	49	0068	14	411									
			OBS	0050	-0150	335	30	2700	1				14	411									
			STC	0075	-0155	336	0	2706		00100	82	0093	14	414									
			0BS	0075	-0155	336	00	2706					14	4414									
			STC	0100	-0122	337	3	2715		00091	70	0118	14	+435									
			OBS	0100	-0122	337	30	2715					14	4435									
			STC	0125	-0064	338	0	2719	•	00088	40	0140	14	4467									
			OBS	0125	-0064	338	00	2719	1				14	4467									
			STD	0150	-0020	339	5	2729	1	00078	87	0161	. 14	4494									
			OBS	0150	-0020	339	50	2729			~~	0100	14	4494									
			STU	0200	0078	341	4	2739		00069	89	0198	1.	+550									
			OBS	0200	0078	341	40	2739		00065	~ ~	0222	14	4550									
			510	0250	0150	342	10	2740	•	00065	09	0232	1/	+372									
			UBS	0250	0150	342	20	2745	•	00057	26	0263	1.	4272									
			510	0300	0194	344	20	2100		00097	20	0202	1/	4022									
			085	0,00	0221	244	20	2759		00054	<u> </u>	0318	1	4651									
			511	0400	0221	245	00	2750		00004	00	0,210	14	4651									
			003	0400	0164	345	2	2762	,	00049	82	0370	1	4652									
				0500	0194	345	20	2762	;	2004)		5-10	ĵ,	4652									
			000	0,000	÷10+								-										

REFER	ID.	SHIP CODE	LATITU	DE 1/10			SOEN	STAT	GMT		YEA	A.R	C RUISE	RIGIN	ATOR'S	_	DEPT TO BOTTO	H M	MAX. DEPTH OF	01	W A BSERV	ATION	is	WEA- THER CODE	CLOUD	-		NODC STATIOI NUMBE	N R
31	8160	WE	7535	5N	069280W	259	59	09 TER	24	063 WIND	194	69	WE2	03 IR TEA	7 NP. °C	'	049	0	3 MFL 3	Dik	1	PLX	SEA	85	9			003	7
							COLOR	TRANS. (m1	DIR.	SPEEC OR FORC	0 N 3E	(mbs	R D	RY ILB	W ET BULB	COD	E OBS	is c	DØSERV.	ATIONS									
							DT	s	34	508	3   4	955	5 -00	)6	-022		13												
		MESSENGI TIME HR 1/10	CAST NO.	CAI	RD OEPTH (m)		т°с	s	•/	sig	SMA-	-1	SPECIFIC	VOLU	ME 20	∆ 0 YN. W X 10 ³	s v	ELOC	ND CITY	0 2 ml,	۱ ۲	PO 4-P	1	DJAL—P vg = at/l	NO₂−N µg - at/l	NO3—N yg - at/l	51 O4- 99 - 0	-Si 11/1 pl	H NOG
			1																1										
				s	TD 0000	C	000	326	52	26	521		0018	3170	0 0	000	) 1	44	60										
		063	3	OB	s 0000	0	000	320	520	26	521						1	44	60										
				S	10 0010	-0	8000	32	75	26	532		001	/13	8 0	018	1	44	60										
				OB	5 0010	-0	800	32	150	26	532				~ ~	<u>.</u>	1	44	60										
				08	S 0020	-0	078	33	26 260	20	576		001	295	9 0	ودں	1	44	36										
				<ul> <li>CD</li> <li>C</li> </ul>	10 0020	-0	010	33	35	26	594		0013	211	6 0	045	. î	44	32										
				08	5 0030	-0	0.92	33	350	26	584				•••	• + >	ī	44	32										
				S	TD 0050	- C	119	33	50	26	597		0010	96	90	068	3 Ī	44	25										
				OB	s 0050	-C	119	33	500	26	597						1	44	25										
				S	TD 0075	-0	112	330	53	27	707		000	998	2 0	095	1	44	34										
				OB	S 0075	-0	112	330	530	27	707						1	44	34										
				S	TD 0100	- C	022	33	79	27	716		000	910	6 0	119	1	44	83										
				08	S 0100	-0	022	33	790	27	716					• • •	1	44	83										
				S	TD 0125	C	013	331	38	27	722		0001	359	1 0	141	. 1	45	04										
				08	5 0125	0	013	331	380	21	122					1	, I	45	04										
				S	C 0150	0	054	22	96 36 0	2	120		0000	920	1 0	162	. 1	45	28										
				C C C	10 0200	0	100	34	12	27	726		000	72B	3 0	200	, i	45	59										
				08	s 0200	ň	100	34	120	27	736		000	20.	<i>,</i>	- • •	, i	45	59										
				S	TD 0250	ŏ	145	34	28	2	746		0006	539	7 0	235	5 Î	45	90										
				OB	s 0250	ō	145	34	280	27	746			- /			ī	45	90										
				S	TD 0300	C	183	34	+0	27	753		0000	579	8 0	265	5 1	46	17										
				08	s 0300	C	183	344	+00	27	753						1	46	17										
				S	TD 0400	C	196	34	50	27	760		000	5193	2 0	320	) 1	46	40										
				ОB	s 0400	0	196	34	500	27	760						1	46	40										

REFERENCE CTRY ID. CODE NO.	SHIP CODE	LATITU	IDE L	ONGITUDE	MARSDEN SOUARE		TIME 1 HR,1/10	YEAR	ORIGI CRUISE NO.	NATOR [®] STATIO NUMB	S N ER	DEPTH TO BOTTOM	MAX DEPTH OF S'MPL'S	OBS!	WAVE RVATI	ONS R SEA	WEA- THER CODE				NODC STATION NUMBER	
318160	I _{WE}	7542	8N 0	69120W	259 59 WA COLOR CODE	09 24 TER TRANS. DIF		1969 BARI MET	WE2 0 D- AIR T R DRY BULB	BAR EMP. C	VIS. CODE	0 360 NO, OBS. DEPTHS	SPE OBSERV	CIAL ATIONS		1	85	7 8			0038	I
				_	DT	S 34	508	00	2 -019	-02	5	12										
	MESSENGR TIME G HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	ס" ד	s •/	sign	MA-T	SPECIFIC VOL ANOMALY-1	UME (10 ⁷	₹ △ D DYN, M x 10 ³	. SO VEL	UND OCITY	02 ml/l	PO4-	- P	tota L ۴ ب ع + ۱/۱۰	NO ₂ —N µg - al/	NO3N 49 - at/l	51 O4-5 29 - 01/	Si pH	s
						1	1													-		+
			STD	0000	-0024	3265	26	24	001784	۰ı آ	0000	14	449						1			1
	095		OBS	0000	-0024	32650	26	24				14	449									
			STD	0010	-0030	3304	26	56	001482	29	0016	14	454									
			085	0010	-0030	33040	26	56				14	454									
			STD	0020	-0102	3333	26	82	001234	2	0030	14	426									
			085	0020	-0102	33330	26	82				14	426									
			STD	0030	-0114	3344	26	92	001145	55 (	0042	14	423									
			085	0030	-0114	33440	26	92				14	423									
			510	0050	-0121	3356	270	01	001050	03 (	0064	14	425									
			085	0050	-0121	33560	270	01				14	425									
				0075	-0112	3363	270	57	000998	12 (	0089	14	434									
			STD	0100	-0095	3374	270	) / 16	000073		112	14	4 3 4									
			085	0100	-0085	33740	27	15	000922	4 (	115	14	423									
			STD	0125	-0048	3382	273	20	000875	5 (	1134	14	475									
			OBS	0125	-0048	33820	273	20	000075		0120	14	475									
			STD	0150	0040	3308	273	28	000707	5 (	1167	14	522									
			085	0150	0040	33980	272	28	000777	· ·	1.57	14	522									
			STD	0200	0115	3415	273	37	000715	6 (	195	14	566									
			085	0200	0115	34150	27	37				14	566									
			STD	0250	0171	3427	274	43	000666	7 0	229	14	601									
			085	0250	0171	34270	274	3				14	601									
			STD	0300	0186	3437	275	50	000604	8 0	261	140	617									
			085	0300	0186	34370	275	50				140	517									

318160 WE 75510N 068500W 259 58 09 24 108 1969 WE2 039 0320 0320	0039	
WATER WIND BARO- COLOR TAKANS, DIR, SPEED CODE TM-1 FORCE ORY WET CODE OBS. OBSERVATIONS		
DT         S         00         S00         016         -019         -028         12           MESSENGE         CAST         CARD         DEPTH (m)         T         S         '.'.         SIGMA-T         SPECIFIC VOLUME         SAD         SOUND         O2 m//I         PO4-P         TOTAL-P         NO2-N         NO3-N           MESSENGE         CAST         CARD         TTYPE         DEPTH (m)         T         S         '.'.         SIGMA-T         SPECIFIC VOLUME         SUND         O2 m//I         PO4-P         TOTAL-P         NO2-N         NO3-N	SI Q4-SI pH	SC
STD 0000 0047 3220 2585 0021595 0000 14476	pg = u(y)	
108 OBS 0000 0047 32200 2585 14476 STD 0010 0045 3250 2609 0019292 0020 14480 OBS 0010 0045 32500 2609 14480		
S10 0020 0015 3286 2640 0016398 0038 14473 OBS 0020 0015 32860 2640 14473 STO 0030 -0024 3306 2657 0014694 0054 14460 OBS 0030 -0024 3306 2657		
STD 0050 -0046 3332 2679 0012608 0081 14457 OBS 0050 -0046 33320 2679 14457 STD 0075 -0038 3351 2694 0011181 0111 14467		
0BS 0075 -0038 33510 2694 14467 STD 0100 -0023 3362 2703 0010400 0138 14480 0BS 0100 -0023 33620 2703 14480		
STD         0125         0010         3373         2710         0009717         0163         14501           OBS         0125         0010         33730         2710         14501           STD         0150         0028         3384         2718         0008972         0186         14514		
085 0150 0028 33840 2718 14514 STD 0200 0097 3405 2731 0007794 0228 14557 085 0200 0097 34050 2731 14557		
OBS         O250         O149         3422         2741         O006879         O265         14591           OBS         0250         0149         34220         2741         14591           STD         0300         0173         3433         2748         0006247         0298         14611           OBS         0300         0173         34330         2748         14611		

REFERENCE CTRY IO. CODE NO.	SHIP CODE	LATITU	DE 1/10	LONGITUDE '1/10	DAIFT	MARSI SOUA	DEN RE	STATION IGM	TIME	YEAR	R C	ORIG CRUISE NO.	STA STA	TION MBER		OEPTH TO BOTTO	H MAK DEPTH OF S'MPL	OBS DIR	WAVE ERVATI	DNS SE	WEA- THER COOE	CLOL COD			N ST NI	OOC ATION JMBER	
318160	WE	7600	3N   1	068300w		259	68 WA	09 24	122 WIND		ARO- ETER			. °C WET	VIS	0100 NO. OBS.	SPE OBSERV	CIAL ATION S	1	1	71	7	8		1.0	0040	
						ŀ	COOF	tm1 0.	FOR	_{Cε} υ	nbs)	8019	+	029	-	0.6	,										
	MESSENGE	CAST	CAR		-		01		121	<u> </u>		SPECIFIC VO		1 2	∆ o	50	סאטכ		PO.	-P	TOTAL	N02-	N NO3-	N SID	a-Si		ş
	TIME NR 1/10	ND.	TYPE	DEPTH G	n)	T	τ	5 %.	51	GMA-T		ANOMALY	-1107	DY X	N. M.	· VE	LOCITT	U 2 ml/1	¥8 •	n/I	µg - ei/1	48 - ot	/I µg - a	/1 10	- 01/1	рН	c
																											I
	175	,	ST	0000	)	-00	20	3050	2	451 451		00343	24	00	000	14	4421 4421										
	122		ST	n 0000	,	-00	30	3050	2	451		00342	82	00	)34	14	4418										
			OBS	0010	)	-00	30	30500	) 2	451						14	4418										
			ST	0020		00	10	3180	2	555		00244	74	00	64	14	4456										
			085	0020		00	10	31800	) Z	555		00203	7 1	00	184	14	4456										
			086	0030		00	22	32350	2	598 598		00203	21	00	/00	14	4471										
			51	0050		-00	23	3286	2	641		00162	19	01	123	14	4461										
			OBS	0050	1	-00	23	32860	2	641						14	461										
			ST	0 0075	j -	-00	48	3317	2	667		00137	36	01	l 60	14	4458										
			0BS	0075	•	-00	48	33170	2	667						14	4458										
REFERENCE CTAY ID, CODE NO.	SHIP	LATITU	DE 1/10	LONGITUOE	DRF	MARSO SQUA	DEN RE 1*	STATION IGM MO OAY	TIME HR.1710	YEAR	2	ORIG CRUISE NO.	STA NU	TION MBER		OEPTH TO BOTTO	H MAX OEPTH M S'MPL	OBS S DIR	WAVE ERVATI	DNS E SE	WEA- TNER COOE	CLOU COC	10 IES M1		ST NI	IODC ATION JMBER	
318160	WEI	7 <b>6</b> 08	2N	06920001		259	69 WA1	09   24 [ER	1138 WINO	1196	191	WE2 O	41 TEMP	. τ				1		1	1 01	1 71	11		1 0	JU 4 II	
						0	COLOR	TRANS OF	L SPE	D M	ETER	ORY		WET	21V 3000	OBS.	COBSERV	CIAL VATIONS									
						H	CODE	tm1	FOR	CE U	mbs)			3018			-										
		T 1					DT	<u> s  0</u>	5 51	6 0	22	-L017	-1	028		09	<u> </u>		-								-
	MESSENGR TIME HR 1/10	P NO.	CARD	DEPTH G	nj	т	۲	s •/	51	GMA-T	,   '	SPECIFIC VO ANOMALT	-110 ⁷	× DY X	∆ 0 N. M. 10 ³	. VE	LOCITY	02 m1/1	PO 4	-P 07/1	101AL-P 99 - 01/1	NO2- 49 - 01	N NO3- /1 µg-a	N SLO /I 29	4–Si - at/1	pН	S C
																					ļ						I
			ST	0000	)	00	20	3152	2	532		00266	67	00	000	14	4454										
	138	3	085	0000	)	00	20	31520	2	532			• •	~		14	4454										
			085	0010	, ,	00	115	3158	2	531 537		00201	82	00	120	1	4434 6454										
			51	0010	ý	00	15	3181	2	555		00244	19	00	052	14	4459										
			OBS	0020	)	00	15	31810	) z	555						14	4459										
			ST	0 0030	)	00	32	3260	2	618		00184	60	00	73	14	4479										
			OBS	0030	)	00	32	3260	) Z	618						14	4479										
			ST	0 0050	)	-00	)48	3319	2	669		00135	94	01	105	14	4454										
			005	0050		-00	140	3350	2 2	60%		00112	26	0.	136	1	4434										
			085	0 0075	, ;	-00	143	3350	2	694		00112	50	0.	0	14	4465										
			ST	0 0100	)	-00	14	3364	2	704		00102	90	01	163	14	4484										
			OBS	0100	)	-00	)14	3364	2 2	704						14	4484										
			ST	0 0125	5	-00	100	3369	2	707		00099	66	0	188	14	4495										
			OBS	0125	5	-00	001	3369	2 2	707						14	4495										
			ST	0 0150	)	00	010	3375	2	11		00095	61	04	413	14	4505										
			003	0190	•	00	10	1010	- 2							Τ.											

REFEREN CTRY I CODE N	CE D. 0,	SHIP CODE	LATITUD	DE L		NDCT	MARS SOU	DEN ARE	STA	TION	T1ME	YE	AR		DRIGIN	ATDR'S		DEPI TO BOILO		MAX. DEPTH DF	D	W/	A TIDN	45	WEA THER	CL				NODC	
3181	60	WE	76000	DN O	69470W		259	69		24	149 WIND	119	69	WE2	04	2 2		042	0	S'MPL*S	DIR.	HG	T PER	SEA	72	TYPE 7	8	1		0042	
								COLOR	TRAN Im]	S. DIR	SPEE DB FOR	D C f	BARO METEI Imbal	8	DRY ULB	W ET BULB	COD	E OBS	s. Hs	SPEC DBSERVA	TIDNS										
								DT	s	10	S16	6	024	o	25	-031		13				]									
	A F	AESSENGR TIME d 1R 1/10	CAST NO,	CARD TYPE	DEPTH (7	1	T	r	5	•4.	SIC	GMA-	-1	SPECIFIC	VOLU	ΜΕ Σ 07 D	△ D (N. M (10 ³	. s	SOUR	ND CITY	0 2 ml/		PD4-P 9 - 01/	1	01AL=P #g = o1/l	NO2 29 -	-N 01/1	ND3N µg - 01/1	51 D4-5 49 - ali	і рн	100
																								+							$^{+}$
				STD	0000		00	003	32	54	26	514	·	001	879	5 0	000	<b></b> 1	44	60					1					1	1
		149		OBS	0000		00	03	32	540	26	514						ī	44	60											
				STD	0010		00	02	32	58	26	518		001	848	1 0	019	1	44	62											
				085	0010		00	02	32	580	26	518						1	44	62											
				STD	0020		-00	90	33	25	26	575		001	299	4 0	)34	1	44	30											
				UBS	0020		-00	190	33	250	26	575						1.	44	30											
				OBC	0030		-01	14	33	36	26	85		001	206	9 0	047	1	44	22											
				STO	0050		-01	24	22	500	20	207		001				1	44	22											
				OBS	0050		-01	24	33	500	20	07		001	195.	3 00	170	1.	44	23											
				STD	0075		-01	42	33	54	27	200		001	1570	<u>م</u>	107	1	44	10											
				OBS	0075		-01	42	33	540	27	00		001		, ,,		1	44	10											
				STD	0100		-00	86	33	58	27	10		000	9679	, o	22	1	44	51											
				OBS	0100		-00	86	33	580	27	10						1	44	51											
				STD	0125		-00	42	33	85	27	22		0008	3553	3 03	45	1	44	78											
				OBS	0125		-00	42	33	350	27	22						14	44	78											
				STD	0150		00	50	33	96	27	26		0008	3184	01	66	14	45	26											
				OBS	0150		00	50	33	960	27	26						14	45	26											
				STD	0200		01	14	34	12	27	35		000	1377	02	05	14	45	65											
				OBS	0200		01	14	34	20	27	35						14	45(	65											
				SID	0250		01	64	344	26	27	43		0006	689	02	40	14	45	98											
			1	085	0250		01	64	347	260	27	43						14	45	98											
				OBS	0300		01	82	343	57	27	50		0006	016	02	72	14	46	16											
				STD	0400		01	02 97	34:	570	21	5 U 6 4		0005	403	0.0	20	14	46	16											
				OBS	0400		01	87	344	50	27	56		0005	493	0.03	29	14	46 46	36 36											

REFE CTRY CODE	ID. ND.	SHIP CODE	LATITU	DE 1/10		MARS SQU	DEN ARE	STAT	ION T	IME 18,1/10	YEAR		ORIGI	NATO STAT	R"S ION BER		DEPTH TO BOTTOM	MAX. DEPTH DF S'MPL"	01 5 DIR	W DSER	A VE VA TI			WEA- THER CODE	CLOU	J D JES			NODC STATION NUMBER	
31	8160	WE	7554	on	070150w	260	50 WAT	09. TRANS	24 ] 01R.	173 1 VIND	969 EAR MET (mbi		2 04 AIR TE DRY BULB	MP.	tc ET c	VIS. 1005	0500 ND. 085. DEPTHS	SPE	CIAL	5	1			70	3	6		-	0043	ļ
							DT	s	00	500	03	2 -	025	-0	31	7	14			-										
		MESSENGR TIME HR 1/10	CAST NO.	CAR	O DEPTN (m)	т	٣	s	•4.	SIGM	A — T	SPECI	IFIC VOL	UME 10 ⁷		D M.	SOU	UND DCITY	O2 mb	n	PO4	P =1/1	TOT.	4 L - P - at/1	NO2-1 V9 - 01	N	NO3-N 29 - 01/1	St Da-	ії 1 рн	S C C
	1	173	[	ST	0000 Q	-00	07	325	2	261	3	00	1890	15	000	00	144	455								T			1	11
		175		ST	D 0010	-00	014	325	520 56	261	3	00	1856	6	001	19	144	455 454												
				08S ST	0010 D 0020	-00	14	325	60 6	261	7	00	1453	7	002	15	144	454												
				OBS	0020	-00	65	330	60	265	9	00	1422		005	,,,	144	439												
				085	D 0030 0030	-01	38	334	00	268	9	00	1169	2	004	8	144	12												
				ST	D 0050	-01	26	335	0	269	7	00	1094	7	007	1	144	22												
				ST	D 0075	-01	33	336	0	270	5	00	1014	5	009	7	144	24												
				ST	D 0100	-00	72	337	4	270	4	00	0927	5	012	2	144	124 159												
				ST	0100 D 0125	-00 00	72 35	337 338	40 8	271 272	4 1	00	0870	9	014	4	144 145	59 514												
				OBS ST	0125 D 0150	00	35 80	338	80	272	1	0.0	0863	0	016	6	145	514												
				OBS ST	0150 D 0200	00	80 37	339	50	272	4 5	0.00	00.5	5	020	6	145	40												
				OBS	0200	01	37	341	40	273	5			_	020	9	145	76												
				OBS	0250	01	30 30	342	5 50	274	4 4	000	0651	5	024	0	145 145	83												
				ST OBS	D 0300 0300	00	54 54	342 342	5 50	274	9 9	000	0601	0	027	1	145	57												
				ST QBS	D 0400 0400	-00 -00	29 29	343 343	0	275	8	000	0513	2	032	7	145	36												
				ST OBS	D 0500 0500	-00 -00	28 28	343 343	2 20	275	9 9	000	0496	9	037	7	145	54 54												

REFEREN	CE D. 10,	SHIP CODE	LATITU	DE 1/10	LONGITUDE		ISOEN JARE	STA MO	ION IGMT	TIME ) HR.1/10	YEAR	C	ORIG RUISE NO.	INATO STATI- NUM	"S DN BER	DEP TC BOTT		MAX. DEPTH OF 'MPL'S	OBSE	NAVE RVATIONS	WEA THER CODE	CLOUC CODE			NOOC TATION NUMBER	
2191	40	WE	7546	5.61	0704208	260	50	09	24	194	196	9 1	IE 2 0	44		044	•0				03	6 7			0044	
. 2101		NC I	1240	2N 1	0104201	1200	WA	TER		WIND	RA RA	20-	AIR	EMP.		NO NO		CRECK						•	••••	
							COLOR	TRANS	DIR	SPEED	ME	TER	ORY	w	T COD	E OB	S. 08	SFECT	TIONS							
							CODE	(m)	-	FORC	.E (m	581	8018			-										
							DT	S	16	S08	04	44	-012	+02	3 7	13	3						_			
		MESSEHGR TIME HR 1/10	CAST NO.	CAR TYP	D QEPTH (m	1	o" 10	. s	•4.	sig	MA-T	SP A	ECIFIC VO	LUME -X10 ⁷	₹ △ C DYN, A x 10 ³	. ,	SOUNG		02 m1/l	PO 4-P 29 - 01/1	TDTAL=P µg = o1/l	NO2-N אר - פֿע	NO3-N yg - al/l	SI O ₄ —S ע - מז/	i pH	
	ĺ																								1	
				51	0 0000	-0	030	32	52	26	22	0	0180	46	0000	) [⊥] 1	444	•6								
		194	•	OBS	0000	-0	030	32	520	26	22					1	444	+6								
				51	0 0010	-0	030	32	90	26	45	0	0159	00	0017	1	445	52								
				085	0010	- 0	030	32	900	26	45					1	445	2								
				ST	0 0020	-0	115	33	45	26	92	0	00113	81	0031	1	442	21								
				OBS	0020	-0	115	33	450	26	92			~ ~	00/ 7	1	442	21								
				ST	0030	-0	127	33	22	20	99	U	0107	20	0042	1	441	9								
				085	0030	-0	12/	22	2 20	20	199	0	0100	2 1	0043	1	441									
				000	0050	-0	122	22	20	21	004	0	0100	51	0002		442									
				005	0050	-0	0.05	22	520 73	21	14	0	00092	75	00.87	1	442	4								
				089	0075	-0	095	33	730	27	14	Ŭ	,00,2		0001	- î	444	4								
				ST	0 0100	-0	064	33	B 2	27	20	0	0086	96	0109	i	446	54								
				OBS	0100	0	064	33	B 2 0	27	20	•				1	446	54								
				ST	0 0125	0	048	33	95	27	25	0	0082	49	0130	1	452	21								
				OBS	0125	0	048	33	950	27	25					1	452	21								
				ST	D 0150	0	070	34	03	27	31	0	00077	71	0150	1	453	36								
				OBS	0150	0	070	34	030	27	31					1	453	36								
				ST	0 0200	0	032	34	13	27	41	0	0067	88	0187	' 1	452	29								
				OBS	0200	0	032	34	130	27	41					1	452	29								
				ST	0 0250	0	046	34	24	27	49	0	00060	35	0219	1	454	15								
				085	0250	0	046	34	240	27	49					1	454	15								
				ST	D 0300	0	042	34	28	27	52	C	00057	08	0248	1	455	2								
				OBS	0010	0	042	34	280 22	27	52	0	0040	96	0302	1	455	17								
				51	0400	-0	0.20	24	220	27	50	Ų	10049	00	0502	1	400	17								
				003	0400	-0	V 2 0	24	220	21	27															

REFERENCE CTRY ID. CODE NO.	SHIP CODE	LATITU	DE 1/10	LONGITUDE	DRUFT	MARS SOU	DEN ARE	STATI	ON TI SMTI	ME R.1/10	¥£ A.R	CRUIS	ORIGIN	NATOR'S STATION NUMBE	J R	DEPT TO BOTTO	H DEI C M S'M	AX. PTH PF PL°S	OBSE	WAVE RVATIO	DINS	WEA- THER CODE	CLOUE CODE	0 5 (1		NODC STATION NUMBER	
318160	WE	7540	0 N	071110		260	51	09/2	4 7	38	1969	WF	04	.5		047	0				1	70	6.8			00.45	
210100		1 2 4 0				2000	WA	TER	W	INC			AIR TE	MP. C	L	NO.	<u>т</u> .									00.12	
							COLOR	TRANS.	OIR.	SPEED	MET	ER	ORY	WET	COD	E OBS	, OBS	RVAT	NON S								
							CODE	(m)		FORC	E (mb	•1	BULB	8018	-+		1.7										
							DT	S	14	S10	05	2 -	017	-02	2 7	13											
	MESSENGE TIME HR 1/10	CAST NO.	CARC	DEPTH	(m)	т	°C	5	·/	SIG	MA-T	SPECH	ALY-X	JME 107		. s	OUND	0	2 ml/1	PO 4-	-P	101AL-P pg - of/I	NO2-N 1/1 - פע	NO3-N 9 - 01/1	SIO4- µg - of	51 pH	500
	1			1						1		1						1			1						
			ST	D 000	С	-0	020	323	5	26	00	00	2015	2 (	0000	1	4447										
	238	3	085	0000	C	-00	020	323	50	26	00					1	4447										
			ST	0010	5	-01	022	325	5	26	16	00	860	9 (	019	1	4450										
			085	0010	2	-00	022	325	50	26	16					1	4450										
			ST	0020	)	-0	112	333	5	26	84	00	215	1	1035	1	4421										
			OBS	0020	,	-0	112	333	50	20	84	0.0	161				4421										
			0.00	0030	ĥ	-0	121	234	30	20	91	ψŪ	121	1 (	1047	1	4420										
			ST	0 0050	, ,	-0	121	335	6	27	02	00	048	4 (	9300	, î	4420										
			OBS	0050	Š	-0	127	335	60	27	02	••				ī	4422										
			ST	0 007	5	-0	110	337	5	27	16	00	907	0 0	093	1	4437										
			085	007	5	-0	110	337	50	27	16					1	4437										
			ST	0100	C	-00	072	338	8	27	26	00	820	5 (	115	1	4461										
			OBS	0100	С	-00	072	338	80	27	26					1	4461										
			ST	0 012	5	00	28	339	5	27	27	00	813	8 (	)135	1	4512										
			OBS	012	5	00	28	339	50	27	27					1	4512										
			ST	0 0150	2	0	074	339	8	27	26	000	0817	5 (	1155	1	4531										
			082	0150	5	00	174	339	80	21	26	~~~			107	1	4531										
			000	0 0200	2	0	131	241	9	21	40	000	1040	4 (	1193	1	4714 1671										
			VD5 ST	0 0200	) n	0	172	341	0.00	27	40	0.00	1650	0 0	1227	- i	4574										
			OBS	0250	Ď	0	572	342	õõ	27	44	500			-2,	i	4556										
			ST	D 0300	)	0	015	342	2	27	49	00	600	1 (	258	1	4539										
			085	030	)	00	015	342	20	27	49					1	4539										
			ST	0 0400	C	0	017	343	5	27	59	00	)502	2 (	313	1	4558										
			OBS	040	)	00	017	343	50	27	59					1	4558										

REFERENC	:E ), )	SHIP	LATITU	DE	LONG	ITUDE	DRIFT NDCTP	M AR SOU	DEN ARE	STAT	ION T	IME	YEAR	CRUI	ORIGI	ATOR'	s N		DEPTH TO	MAX. DEPTH OF	OBS	W.A SERV	A TIONS	s	WEA- THER	CLC	DES			NODC	
				1/10		1/10	-	10"	1.	MOL	DAY H	R.1/10		NO	·	NUMB	R	1.00	лом	S'MPL'S	DIR	HG	PERS	SEA	CODE	TYPE	AMI			NUMBER	[
3181	60	WE	7532	ON	071	350W		260	51	09 2 IER	یا دم		1969	WE	2 04	MP T		lq	530		L				00	6	7			0046	
									COLOR	TRANS. Imt	DIR.	SPEED	BAR( METE (mbs	)-   R 	ORY BULB	W E'			NO. OBS. IEPTHS	SPEC OBSERV	ATIONS										
									DT	s	14	510	0.5	5	017	-02	2 7	+-	14												
	ļ	MESSENGR TIME HR 1/10	CAST NO.	CAF TYP	RD PE	DEPTH (	n)	T	r	s	•/	SIGA	1-A	SPECI	IC VOLU	JME 107	₹ Δ C OYN, A X 10 ³	х. И.	- SDU VELO	ND CITY	02 ml/l	ة بر	04-P 9 • •1/I	01 وبر	TA L—₽   • 01/1	NO ₂ -	-N	NO3-N 49 - 01/i	Si O ₄ -S 29 - 01/	рН	500
										1														1				-	-		+
				\$1	τD	0000	)	0	000	323	30	259	95	00	2061	7	0000	כ י	144	۰55 [`]					,		,				ľ
		014		085	S	0000	)	0(	000	323	800	259	95						144	•55											
				51	TD	0010		-0(	014	326	0	262	20	00	1826	0	0019	9	144	155											
				51	5	0010		-00	114	320	000	262	20	~~		2			144	155											
				OB	5	0020		-01	25	222	60	200	52	00	[204	2	0035	>	144	15											
				51	τD	0030		-01	40	334	4	260	22	0.0	137	0	1044		144	11											
				OBS	5	0030		-01	40	334	40	269	92	00			5040	,	144												
				ST	D	0050		-01	44	335	7	270	3	00	1035	9	0068	2	144	14											
				085	5	0050		-01	44	335	70	270	)3			,	00	-	144	14											
				ST	D	0075		-01	18	336	8	271	1	000	957	9 (	0093	3	144	32											
				OBS	5	0075		-01	18	336	80	271	1						144	32											
				ST	D	0100		-00	95	337	8	271	8	000	888	1 (	0116	<b>,</b>	144	49											
				OBS	5	0100		-00	195	337	80	271	8						144	49											
				ST	D	0125		00	10	339	5	272	28	000	804	3 (	0137	·	145	04											
				OBS	5	0125		00	10	339	50	272	8						145	04											
				ST	D	0150		00	48	339	7	272	7	000	809	7 (	)157	'	145	25											
				OBS	5	0150		00	48	339	70	272	7						145	25											
				ST	D	0200		01	50	342	0	273	19	000	0702	4 (	)195	i	145	83											
				OBS	5	0200		01	50	342	00	273	19						145	83											
				ST	D	0250		01	52	342	8	274	-5	000	644	8 (	)229	•	145	93											
				OBS	5	0250		01	52	342	80	274	-5						145	93											
				ST	D	0300		01	90	344	5	275	6	000	1547	7 (	)259	)	146	20											
				085	<u>,</u>	0300		01	.90	344	50	275	6						146	20											
				51		0400		01	99	345	0	275	9	000	521	8 (	0312		146	42											
				085		0400		01	99	345	00	275	9						146	42											
				OBC		0500		01	20 20	345	10	216	5	000	467	9 (	1362		146	31											
				003	,	0000		01	20	247	10	216	2						146	1 د											

REFERENCE	SHIP CODE	LATITU	DE L 1/10		MARSE SOUA	DEN RE	STATIO IG/	N TIME NT) Y HR,1710	YEAR	ORIGI CRUISE NO,	OTAN ITATZ MUN	R*S ION BER	DEPTH TO BDTIOM	MAX, DEPTH OF S'MPL"	O85	WAVE ERVAT	IONS R SE	WEA THER CODE	CLO COL	DES			NODC STATION NUMBER	
318160	WE	7525	on I o	72020W	260	52 WAT	09 25 ER TRANS E		1969 BAR ME1	WE2 04	7 MP. 80		0570 NO. OBS. DEPTHS	SPE OBSERV				73	3	8		1	0047	
						DT	S 1	4 508	3 0 9	1 -011	-0	114	14											
	MESSENGI TIME HR 1/10	CAST NO,	CARD TYPE	DEPTH (m)	т	٣	s •/	sic	MA-T	SPECIFIC VOL	UME 107	₹ △ 0 0YN. M x 10 ³	SOU VELC	UND DCITY	0.2 m1/1	PO 4 99 -	- P 01/1	τοτει	NO2- 99-01	N 61	NO3-N 49 - 01/	51 O4-5 µg - at/	рН	soc
	028		STD OBS	0000	 -00 -00	40 40	3260	26	21	001816	1	0000	144	441		]								T
			STO	0010	-00	45	3260	26	21	001813	7	0018	144	440										
			STD	0020	-01	45 30	3260	26	521 578	001271	8	0034	144	440 412										
			OBS STD	0020 0030	-01 -01	30 48	3327	0 26	978 995	001112	8	0045	144	412										
			OBS	0030	-01	48	3347	0 26	95				144	408										
			OBS	0050	-01	48 48	3358	27 0 27	'04 '04	001027	1	0067	144	413 413										
			STD	0075	-01	49	3362	27	07	000994	5	0092	144	+17										
			STD	0100	-01	40	3368	27	12	000949	6	0116	144	+17 426										
			OBS	0100 0125	-01	40 80	3368	0 27	12	000846	Q	0139	144	+26										
			OBS	0125	-00	80	3384	0 27	23				144	+61										
			OBS	0150	-00	08 08	3393 3393	27 0 27	27	000809	9	0160	144	+99 +99										
			STD	0200	00	90 90	3414	27	38	000706	6	0198	145	555										
			STD	0250	01	30	3426	27	45	000643	9	0231	145	555 583										
			STD	0250	01	30 60	3426 3437	0 27 27	45 52	000584	5	0262	145	583 506										
			OBS STD	0300 0400	01 02	60 27	3437 3452	0 27	52 59	000530	8	0318	146	506										
				0400	02	27	3452	0 27	59		2	0340	146	54										
			085	0500	01	68	3451	0 27	63	000492	ز	0269	146	45										

REFERENCE	2HIP 2002	LATITUO	DE 1/10		MARSOEN SOUARE	STATION TIM	E YE	AR	ORIGIN CRUISE NO,	ATOR STATIO	IN ER	DEPTH TO BOTTO	MAX DEPTH OF S'MPL	OBS S DIR.	WAVE ERVATIONS	WEA- THER CODE	CLOUD CODES	ī	ST N	IOOC ATION UMBER	
318160	WE	75180		072300W	260 52	09 25 04	0 19	69	WE2 04	8		9550	,			85	8 6			0048	
					COLOR	TER WI	ND SPEED	BARC	R DRY	MP. C		NO. OBS,	S PE								
					CODE	tm1 Otk.	FORCE	(mbs	1 8019	801	8	OEPTH	\$								
	MESSENCE				DT		08	05		-01	1 9 ₹∆0				PO. 0		10.1	10 11	10.5		7,
	TIME 0	NO.	TYP	OEPTH (m)	3 1	s */	SIGMA-	-T	ANOMALY-X	107	0YN. M X 10 ³	' VE	LOCITY	Og mi/l	20 - 01/1	101AL-P	µg - at/[	и03-N h0- a1/l	µg - al/l	pН	Ċ
			-										l								Τ
	040		ST 085	0000	-0033 -0033	3255 32550	2617 2617		001857	0	0000	14	444								
			ST	D 0010	-0037	3264	2624		001786	1	0018	14	445								
			ST	0 0010	-0037	3332	2682		001234	8	0033	14	415								
			085	0020	-0125	33320	2682		001136	,	0045	14	415								
			085	0030	-0147	33440	2692		001190	1	0045	14	408								
			51	0 0050	-0150 -0150	3355 33550	2701		001049	6	0067	14	411								
			ST	D 0075	-0148	3365	2710		000971	8	0092	14	418								
			08S	0075	-0148 -0120	33650 3370	2710 2713		000940	6	0116	14	418								
			085	0100	-0120	33700	2713					14	436								
			51	D 0125 0125	-0072	3383 33830	2722		000857	8	0139	14	464								
			ST	0 0150	-0010	3393	2727		000808	9	0160	14	498								
			085 ST	0150 D 0200	-0010 0067	33930 3410	2727		000722	4	0198	14	1544								
			085	0200	0067	34100	2736		000630	2	0777	14	544								
			085	0250	0120	34270	2747		000629	2	0232	14	578								
			ST	D 0300	0153	3436	2752		000586	7	0262	14	603								
			51	D 0400	0180	3447	2758		000528	5	0318	14	633								
			085 ST	0400 D 0500	0180 0180	34470 3452	2758		000494	8	0369	14	633								
			085	0500	0180	34520	2762					14	650								
REFERENCE	SHIP	LATITUO	DE		MARSOEN	STATION TIM	E YE.	AR	ORIGIN		\$	DEPTH TO	DEPTH	OBS	WAVE ERVATIONS	WEA- THER	CLOUO		51	ATION	
CODE NO.	COOL	•	1/10	1/10 ^O Z	10* 1*	MO DAY HR.	1/10		NO.	NUMB	ER	BOTTO	S'MPL	S D1R,	HGT PER SE	A CODE	TYPE AMT		N	UMBER	
318160	WE	76599	9N I	071340w	260 61	09 27 23 TER WI	10 19	69 8480	WE2 04	9 MP, °C		0720 NO.				71	X   9	I		0049	
					COLOR	TRANS. OIR.	SPEED OR FORCE	(mba	R ORY BULB	BUL	T CODI B	OBS. DEPTH	OBSERV	ATIONS							
					DT	5 00 5	00	202	2 -017	-02	2 7	16									_
	MESSENGR TIME Q	CAST NO,	CARI	DEPTH (m)	лт С	s •/	SIGMA-	-1	SPECIFIC VOLU	INF	₹ ∆ 0 01N, M	, so ve		0 2 ml/l	PO 4-P	TOTAL-P	NO2-N #g + at/l	NO3-N 40 - 01/l	SI O4-Si µg - ol/l	рN	S
	HK 1/10									+	x 10										f
		. ,	ST	0000 0	-0010	3175	2551		002478	4	0000	14	443								·
	239		51	D 0010	-0010	31750	2551		002405	0	0024	14	445								
			085	0010	-0020	31840	2559		002395	7	0048	14	441								
			085	0020	-0023	31850	2560		002333	'	0040	14	442								
			ST 085	D 0030 0030	-0020 -0020	3195 31950	2568		002319	8	0072	14	446								
			ST	D 0050	-0012	3269	2627		001756	5	0113	14	464								
			ST	D 0050	-0012	32690 3302	2627		001497	9	0153	14	466								
			085	0075	-0025	33020	2654		001252	ß	0188	14	466								
			085	0100	-0040	33330	2680		001255	0	0100	14	468								
			5T 085	D 0125 0125	-0040	3339 33390	2685		001207	1	0219	14	473								
			ST	0 0150	-0040	3347	2691		001145	2	0248	14	478								
			085 ST	0150 D 0200	-0040 -0010	33470 3378	2691 2715		000922	0	0300	14	478 505								
			085	0200	-0010	33780	2715		000851	2		14	505								
			085	0250	0029	33900	2723		000851	2	0344	14	532								
			ST	0 0300	0080	3417	2741		000678	4	0382	14	567								
			ST	D 0400	0078	3431	2753		000572	2	0445	14	585								
			085 ST	0400 D 0500	0078 0079	34310 3437	2753		000528	7	0500	14	585 603								
			085	0500	0079	34370	2757		000515	6	0557	14	603								
			085	0600	0080	34390	2759		000215	2	U-52	14	620								
			ST	D 0700	0082	3442 34420	2761		000495	7	0603	14	638 638								
					0000	2							0.20								

REFERENCE	SHIP CODE	LATITU	OE I/10	LONGITUDE	Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauff Dauf Dau	RSDEN	STA	ION I IGMTI		YEAR	c	ORI RUISE NO.	GINAT STA	TION		DEPT TO BOTTO		OF	085	WAVE ERVATIONS	WEA- THER CDDE	CLOUD	,	S	NODC TATION UMBER	
			1/10		1 10	- 1	mu		16,1710	-	+								U.C.		<u> </u>	11000				
318160	) WE I	7651	ONI	071580W	26	0 61	09	28	015	196	9 1	WES (	050		-	081	0				71	X   9	1	- E.	0050	
						WA	TER	+- '	WIND	- 84	RO-	AIR	TEMP	. °С	VIS.	NO.		SPECIA	AL							
						COLOR	TRANS Im)	OIR.	OR		TER (bs)	BUL	a	WET BULB	COD	DEPTH	45 OB	SERVAT	TONS							
								-	FOR						<u> </u>	<u> </u>										
						DT	S	00	SO	2 20	08	-01	7 -	022	7	17				······						_
	MESSENGE TIME HR 1/10	CAST NO.		RD DEPTH	(m)	т <b>с</b>	s	•⁄	510	GMA-T	s	PECIFIC V	OLUMI 1	₹ DY X	∆ 0 N. M 10 ³	• ve	ELOCI	0	2 ml/l	PO4-P +9 - 01/1	TOTAL-₽ µg•ot/I	NO ₂ N µg - ol/1	NO3-N 1/9 - 01/1	SIO4~~5+ µg - ol/l	рн	s c c
							1													1						
			s	000 סיס	0 -	0044	32	85	20	541	. 1	00162	232	00	000	់រ	444	3		• •						•
	019	5	08:	s 000	0 -1	0044	32	850	20	541				-		1	444	3								
			S	TD 001	0 -	0049	32	85	20	542	. (	00162	208	00	)16	1	444	2								
			08	5 001	0 -1	0049	32	<b>B</b> 50	20	542						1	444	2								
			S	TD 002	0 -1	0059	32	87	26	544	. (	00160	013	00	)32	1	443	9								
			083	s 002	) — (	0059	32	870	26	544						1	443	9								
			S1	TD 003	D - (	0051	33	16	26	667	- (	00138	819	00	)47	1	444	9								
			083	5 003	) -(	051	33	160	26	67						1	444	9								
			S1	TD 005	) — (	0045	33	32	26	579	(	00126	512	00	)74	14	445	7								
			OBS	5 005	) (	0045	33	320	26	579						14	445	7								
			S1	D 007	5 -(	0048	33	48	26	592	(	00113	368	01	04	14	446	2								
			085	5 007	5 -(	048	33	82P	27	720P																
			S1	TD 010	) – (	0048	33	60	27	702	(	00104	442	01	31	14	446	8								
			083	5 010	) — (	0048	33	500	2	702						14	446	8								
			S1	7D 012	5 -(	0009	33	67	2	706	(	00100	279	01	57	14	449	1								
			OBS	5 012	5 -(	0009	33	570	27	706						14	449	1								
			S1	FD 0150	) (	2100	33	74	2	711	(	00096	547	01	81	14	450	6								
			085	5 0150	) (	012	33	740	27	11						14	450	6								
			S1	rD 0200	) (	090	34	04	2	730	(	00078	324	02	25	14	455	4								
			085	5 0200	) (	090	34	040	27	730						14	455	4								
			S1	TD 025	) (	0109	34	12	27	735	(	00073	351	02	263	14	457	1								
			083	5 0250	) (	0109	34	120	27	135						14	457	1								
			S1	rd 0300	) (	073	34	17	27	42	(	0006	737	02	98	14	456	4								
			085	5 0300	) (	073	34	170	27	42						14	456	4								
			S1	D 0400	) (	067	34	30	27	753	(	00057	722	03	60	14	456	0								
			0B3	5 0400	) (	0067	34	300	27	753						14	458	0								
			S1	D 050	) (	083	34	38	27	/58	(	00052	240	04	15	1.	460	5								
			083	5 0500	) (	083	34	380	27	56						1	460	5								
			S1	D 0600	) (	090	34	+1	27	60	(	00050	080	04	67	14	462	5								
			085	0600	) (	090	34	+10	27	60					•	14	462	5								
			S1	rD 0700	) (	0088	34	45	27	63	0	0004	779	05	16	14	464	2								
			085	5 0700	) (	0088	34	+50	27	63						14	464	2								
			S1	rD 0800	) (	090	34	45	27	63	(	00048	309	05	64	14	465	9								
			OBS	5 0800	) (	090	34	+50	27	63						14	465	9								

REFER CTRY CODE	IO. NO.	SHIP COOE	LATITU	DE 1/10		MARS SOU	IOEN ARE	STATIO IG/	N TIME ATI Y [HR.1/	Y	EAR		DRIG	NATO STATI NUM	R'S ON BER	-	OEPTH TO BOITOA	MAX. DEPTH OF S'MPL"	DIR.	W BSERT	A VE VA TIONS	TH CO	EA- ER DE	CLOUD CODES	r		NODC STATION NUMBER	
318	3160	WE	7652	ON	072220W	260	62 WAT COLOR CODE	09 28			969 BARC METE (mbi	WE	2 O A IR J ORY BULB	5 1 EMP. BU	τ ετ c	VIS.	NO. 085. DEPTHS	SPE	CIAL TATION S	-T- \$		0	1	<b>X</b> 9			0051	i
			_				DT	S 1	9 S(	)6	21	0 -	039	-0	50	8	12			1								_
		MESSENGI TIME HR 1/10	CAST NO.	CAR TYP	D DEPTH (m)	т	r	s •/		iig m A	т	SPECI	IFIC VOI	UME X107	₹ Д OYN X	10 ³	SO VEL	UND OCITY	O2 mi/	/1	PO4-? vg • e1/l	10101 0 - 94	- P 1/1	NO ₂ -N µg - al/l	NO3-N µg - ot/1	SIO4	а И рН	s C C
													_															
		0.2	-	ST	D 0000	-00	074	3295		265	1 1	00	153	57	00	00	14	430										
		01	5	ST	0 0010	-00	070	3298	2	265	3	00	151:	36	00	15	14	434										
				OBS	0010	-00	070	3298	0 2	265	3						14	434										
				ST	D 0020	-00	062	3310	2	266	2	00	1424	41	00	30	14	441										
				085	0020	-00	062	3310	0 2	266	2	00	137	20	00.	44	14	441										
				085	0030	-00	057	3317	0 2	266	B	00	120	20	00		14	446										
				ST	D 0050	-0	068	3333		268	1	00	124	45	00	70	14	447										
				085	0050	-0	06B	3333	0 2	268	1						14	447										
				ST	D 0075	-00	056	3360	1	270	2	00	104	18	00	99	14	460										
				OBS	6 0075	-0	056	3360	0 2	270	2						14	460										
				S1	D 0100	-0	043	3372	2	271	1	00	095	48	01	24	14	472										
				OBS	6 0100	-00	043	3372	0 2	271	1						14	472										
				ST	D 0125	-00	064	3377	2	271	6	00	090	59	01	47	14	467										
				085	0125	-00	064	3377	0 2	271	6			_			14	467										
				51	D 0150	-0	008	3390	4	272	4	00	083.	27	01	69	14	499										
				085	5 0150	-00	008	3390	0 2	272	4						14	499										
				51	0 0200	0	112	3409		273	3	00	075	90	021	08	14	564										
				085	0200	0	112	3409	0 2	273	3	~ ~			~ ~		14	564										
				0.00	0 0250	0	121	3420		214	1	00	068.	29	UZ.	44	14	578										
				51	0250	0	121	3420	0 4	214	1	0.0	063	20	0.2		14	578										
				08	5 0300	0	091	3424		74	6	00	003	20	02	~ ~	14	573										
					0.00		- / +	2424			<i>•</i>						* **											

REFE CTRY CODE	ID. NO.	SHIP	LATITU	DE 1/10		MAR SQL	SDEN JARE	STA MO	TION IGMT	TIME	YEAR	CRUI		STAT NUM	R"S ION BER	-	DEPTH TO BOTTOM	MAX, DEPTH OF S'MPL"	OBSI 5 DIR	WAVE ERVATI HGT PE	DNS I SEA	WEA- THER CODE	CLOUD CODES	T		NOD STATIC NUMB	C)N ER
31	8160	WE	7645	ON	073270W	260	63.	09 TER	28	Q48 WIND	1969	WE	2 05 AIR TE	2 MP.	τ FT C	(15.	0160 NO, 085.	SPE				70	7 5			009	52
							CODE	(m)	- Dir	FOR	E (mb	ii	BULB	BL	JLB		DEPTHS	005000									
							DT	S	19	506	5 20	5 -	039	-0	50 8	3	09			-				r			
		MESSENC TIME HR 1/1	CAST	CAR	DEPTH (m)		°C		•4.	510	MA-T	SPECI	FIC VOLI	UME 10 ⁷	≵ ∆ DYN. X 11	р. м.	SOL VELC		0 2 mi/l	РО 4 И 9 -	-P	101AL-P µg - o1/l	NO2-N V9 - 01/l	NO3-N 98 - 01/l	SI O 4- 49 - 6	-Si 1/1 - F	SH C
																								ļ			
		1		ST	0000 g	· _ 0	154	32	08	25	83	00	2181	9	000	00	14:	380									
		04	8	085	0000	-0	154	32	080	25	683						14	380									
				ST	D 0010	-0	156	32	18	2 5	591	00	2103	37	002	21	14	383									
				OBS	0010	-0	156	32	180	25	91						14	383									
				ST	D 0020	-0	158	32	19	25	92	00	2094	•7	004	2	14	383									
				OBS	0020	-0	158	32	190	) 25	592						14	383									
				ST	D 0030	-0	150	32	40	26	808	00	1934	+1	006	53	14	392									
				OBS	0030	-0	150	32	400	26	808			-			14	392									
				ST	0 0050	-0	111	32	86	26	545	00	1589	9	009	8	14	420									
				OBS	0050	-0	111	32	860	26	45						14	420									
				ST	D 0075	-0	100	33	28	26	578	00	1270	02	013	34	14	435									
				0BS	0075	-0	100	33	280	26	578			_			14	435									
				ST	D 0100	- C	084	33	50	26	95	00	1106	53	016	53	14	450									
				085	0100	-0	084	33	500	26	95	~ ~			010		14	450									
				ST	D 0125	-0	069	33	62	2	104	00	1018	13	019	10	14	463									
				OBS	0125	-0	069	33	620	2	104	~ ~					14	463									
				ST	D 0150	-0	017	33	90	2	125	00	0828	د ه	021	5	14	495									
				UBS	0150	-0	1101	- 34	900	, 2	120						14	472									

REFE	RENCE	6 MID			- Ĕ	MARS	DEN	ST.A	TION	TIME			ORIGIN ATOR'S	DEPTH	MAX.		WA	VE		WEA-	CLO	oup		NODC
CODE	ID. NO.	CODE	LATITUDE 1/10	LONGITUDE	ND ON	10"	11	MO	DAY	) HR_1/10	YEAR	CRUISE NO.	STATION NUMBER	01 NOTTON	OF S"MPL"S	DIR.	SERV.	A TIO	NS SEA	CODE	CO TYPE	DES	ī	NUMBER
31	8160	WE	75426N	074100W		260	54	09	28	067	1969	WE2	053	0450			1			70	7	5		0053
						ŀ	WA COLOI	TER	5. CIR	SPEE	BARG METE	R	AIR TEMP. C VIS	NO. 085.	SPEC OBSERV/									

 COLOG TRANS, DUR, POCE
 OBC
 METER
 DR
 WET
 CODE (DEP)(F)
 OBSERVATIONS

 DT
 S
 0.0
 S00
 2.16
 -0.39
 -0.50
 8
 1.3

MESSENGE TIME O HR 1/10	CAST	CARO TYPE	DEPTH (m)	י ד	s */	SIGMA-T	SPECIFIC VOLUME ANOMALY-X107	₹ △ D DYN, M. x 10 ³	SOUND VELOCITY	0 2 m1/l	PO4-P 49 - 01/1	10TAL=#	NO2-N vg - ot/l	NO3-N pg-at/i	51 O.4—51 99 - 01/1	рН	S C C
'		STD	, 0000	-0150	3130	2519	0027831	0000	14371								
067		OBS	0000	-0150	31300	2519			14371								
		STO	0010	-0150	3200	2576	0022434	0025	14383								
		085	0010	-0150	32000	2576			14383								
		STD	0020	-0138	3230	2600	0020146	0046	14394								
		OBS	0020	-0138	32300	2600			14394								
		STO	0030	-0125	3269	2631	0017176	0065	14408								
		085	0030	-0125	32690	2631			14408								
		STO	0050	-0128	3282	2642	0016156	0098	14411								
		OBS	0050	-0128	32820	2642			14411								
		STD	0075	-0093	3302	2657	0014716	0137	14435								
		08S	0075	-0093	33020	2657			14435								
		STD	0100	-0116	3332	2682	0012328	0171	14432								
		OBS	0100	-0116	33320	2682			14432								
		STD	0125	-0102	3370	2712	0009456	0198	14448								
		OBS	0125	-0102	33700	2712			14448								
		STD	0150	-0061	3375	2715	0009225	0221	14472								
		OBS	0150	-0061	33750	2715			14472								
		STO	0200	0076	3400	2728	0008038	0265	14547								
		OBS	0200	0076	34000	2728			14547								
		ST0	0250	0022	3404	2734	0007410	0303	14531								
		085	0250	0022	34040	2734			14531								
		STD	0300	0045	3422	2747	0006181	0337	14552								
		085	0300	0045	34220	2747			14552								
		STD	0400	0024	3432	2757	0005292	0395	14561								
		085	0400	0024	34320	2757			14561								

REFEREN CTRY I CODE N	CE D. 10.	SHIP COOE	LATITU	OE	LONGITUDE	DRIFT IN DCTR	MARS SOU	SDEN ARE	STAT	ION T GMT	IME 18,1/10	YEAR	CRUI	ORIGI	NATOR STATE	I'S DN BER	DEI T BOT	PTH IO TOM	MAX. DEPTH OF S'MPL'S	OBS DR.	WA ERVA	VE TIONS PER SE	WEA THER COD	CLOI	JD JES			NODC STATION NUMBER	
3181	.60	WE	7640	8N C	74490W		260	64 WA	09 2 TER	28 0	288 VIND	1969	WE	2 0 5 A IR TI	54 MP. 1	c	04	70. o.					01	7	7		İ	0054	
								COLOR	TRANS. Iml	DIR.	SPEEO OR FORCI	M ET (mb	ER s)	DRY GULB	6U		DE P	BS. PTHS	OBSERV	ATIONS									
								DT	s	00	500	21	6 -	034	-05	50 8	1	3											
		MESSENGR TIME HR 1/10	CAST NO.	C ARD TYPE	DEPTH (	ml	T	°C	s	•4.	sig	MA-T	SPECI	FIC VOL	UME 107	₹ ∆ E CYN. A X 10 ³	) A.	SOU VELO	ND CITY	D 2 ml/l	PI V S	04-P 1-01/1	101AL-1 98 + 61/1	NO2- 19 - at	N /1	NO3-N µg - 01/l	SIO₄—' µg - αt.	іі 1 рн	S C C
													1																
				STD	0000	)	-0	130	314	+0	25	27	00	2710	01	0000	ׂכ	143	382										
		088		OBS	0000	)	-0	130	314	•00	25	27						143	382										
				STD	0010	)	-0	152	314	+6	25	32	00	2658	35	002	7	143	374										
				OBS	0010	)	-0	152	314	460	25	32						143	374										
				STU	0020	)	-0	146	31	15	25	56	00	2435	06	0054	2	143	282										
					0020	,	-0	140	320	18	25	20 82	00	2184	.0	00.79		143	205										
				OBS	0030	Ś	-0	133	320	0.80	25	82	00	210-	.0	001.	· .	143	395										
				STD	0050	)	-0	117	324	9	26	15	00	1871	9	0116	5	144	+12										
				OBS	0050	)	-0	117	324	90	26	15						144	+12										
				STD	0075	,	-0	108	329	94	26	51	00	1527	19	0158	3	144	27										
				085	0075		-0	108	329	940	26	51						144	27										
				STD	0100	)	-0	102	331	17	26	69	00	1352	23	0194	•	144	+37										
				OBS	0100	)	-0	102	331	170	26	69						144	+37										
				STD	0125	6	-0	095	334	+2	26	89	00	1162	22	0226	5	144	+48										
				OBS	0125		-0(	095	334	+20	26	89						144	48										
				STD	0150	)	-0	094	334	+3	26	90	00	1153	37	0255	5	144	+52										
				OBS	0150	)	-00	094	334	+30	26	90						144	+52										
				STD	0200	•	-0(	072	339	94	27	30	00	0771	. 1	0303	3	144	+78										
				085	0200	)	-0	072	339	940	27	30	~ ~	~	-	0.2.24		144	178										
				SID	0250	,	-01	044	341	12	21	44	00	0645		0338	5.	145	02										
				085	0250	,	-00	044	34	120	27	44 6.0	~ ~			0344		145	17										
				085	0300	, ,	-00	200	340		27	50	00	0285	/4	0203	1	140	517										
				005	0500	,	_0	0.02	341	300	27	57	00	0525	. т	0425	5	145	546										
				510	0500	, )	-01	015	341	43	27	5.8	00	0515	5	0477	í	145	573										
				OBS	0500	)	0	015	343	330	27	58	50	0	-	<b>U</b>		145	573										

REFEREN	CE D.	SHIP	LATITU	Dł	LONGITUD	m 281F7	N DC18	ARSDEN SOUARE	ST.4	GMT	TIME	YEA	4.R		RIGIN	ATOR'S		DEPTH TO	DEPTH	085	WAVE ERVATIO	NS	WEA- THER	CLOUD	5			
CODE N	ю,	0001	•	1/10	• 1	/10	ž 1	0, 1.	MO	DAY	HR.1/10	1		NO.	1	NU M BE	2	BOTTON	S'MPL"	QIR.	HGT PER	SEA	CODE	TYPE AA	1		NUMBER	1
3 181	60	WE	7637	2N	075360	w	26	60 65	09	28	105	19	69	WE2	05	5		0430	)				02	7 7			0055	
							1	- ( w	ATER	T	WIND	<u> </u>			IR TE	MP. °C	1	NO.	1									
								COLO	R TRAN	S. DIR.	SPEE		(mbs)	- ( B	DRY ULB	WET BULS	C 0 0	OBS.	OBSERV	ATIONS								
								DT	S	23	504	+	231	-0	34	-050	8	13										
		MESSENGR TIME HR 1/10	CAST	CAR	RD OEP	(H lm)	1	т°с		s •4.	sic	SMA-	-1	SPECIFIC	VOLU	ME 07	EΔD DYN. A X 10 ³	A. SO	UND OCITY	02 ml/l	РО4- ия - о	P 1	101AL—P µg = a1/1	NQ ₂ —N yg - ot/l	NO3-N V9 - a1/l	51 O4-5 Vg - al/	PH	500
				s.	тр о	00		-0148	31	60	25	544		002	552	5 (	0000	) 14	377		1							
		105		OB:	s 00	000		-0148	31	600	25	544						14	377									
				S	TD OC	10		-0152	31	68	25	550		002	489	2 (	025	5 14	377									
				0B:	s 00	10	-	-0152	31	680	25	550						14	377									
				S	TD 00	20		-0155	31	75	2 5	556		002	433	8 (	050	) 14	379									
				0B	s 00	20	-	-0155	31	750	2 5	556						14	379									
				S	TD 00	30	•	-0150	32	37	26	606		001	957	2 (	072	2 14	391									
				OB:	s 00	30	-	-0150	34	370	26	606						14	391									
				S	TD 00	150	-	-0121	32	65	26	528		001	748	0 0	109	14	412									
				0B:	s 00	150	-	-0121	34	650	26	528						14	412									
				S	TD OC	75	-	-0102	32	98	26	554		001	499	2 (	)149	14	430									
				08	S 00	75	•	-0102	34	980	26	554						14	430									
				S	TD 01	.00	-	-0090	31	30	26	579		001	257	0 0	184	+ 14	444									
				OB	5 0	.00	-	-0090	3.	300	26	579		~~ .				14	444									
				2	10 0.	.25	-	-0067	5.	222	20	599		001	013	6 (	1413	> 14	403									
				00.	5 U. TD 01	E 0		-0067	21	14 2	20	705		001	012	, (	1230	14	461									
				08	S 0	50		-0082	23	420	2	705		001	015	1 (	16 3 3	14	461									
				- 00.	το ο:	200		-0062	23	1020	2	7 2 0		000	705	7 (	284	14	480									
				0 B	s 01	200		-0068	22	010	2	720		000				14	480									
				s c		500		-0068	21	12	2	744		000	643	0 (	320	14	501									
				08	5 02	250		-0047	34	120	2	744		000	040			14	501									
				s	TD 0	300		-0035	34	22	2	751		000	572	7 (	351	14	516									
				OB	S 0	300		-0035	34	220	2	751						14	516									
				S	TD 04	+00		-0028	34	31	2	758		000	506	2 (	405	5 14	537									
				ΟВ	s 0.	+00		-0028	34	310	21	758						14	537									

## ${\tt TABLE III.-Continued}$

RE	FERENCE	SHIP	LATITU	IDE	LONGITUDE	Delet	M AR SOU	SOEN ARE	STATIC {G	MT)	ME	YEAR	CRUIS		A TOR'S	N	DEPTH TO BOTTO	H DEPT	H OBSI	WAVE ERVATIO		WEA- THER CODE	CLOUR	5	S	NODC TATION UMBER	
cod	NO,			1/10	• '1/	10 =	10.	1.	MOD	0 1	R_1/10	1060		0.5	6	×	027	2.001	S DIR	RGT PER	SEA	02	7 7			0056	
3	18160	NWEI	7612	ON	074360	WI	200	1041	0912			190	1	A IR TE	MP T	- T		-1	<u> </u>			,					
								COLOR	TRANS.	18	SPEE	- BA		DRY	WET	COD	BE DEPTH	CBSER	ECIAL VATIONS								
								CODE	(m)		FOR	:E (m)		BULB	800		1.										
								DT	S	00	soc	) 24	4 -1	22	-03		111	<u> </u>							-		_
		MESSENG TIME HR 1/10	CAST NO.	CA TY	RD DEPT	H (m)	T	۲	5.	<i>.</i> .	SIG	MA-T	SPECI	IC VOLU	1 M E	₹ Д 0 DYN. А X 10 ³	k. se	LOCITY	0 2 ml/l	PO 4- بو د	~P	TOTAL—₽ µg • ¤!/l	NO2-N V9 - 01/	NO3-N µg - 01/1	SI 04-Si µg - ol/1	рн	s
				s	00 01	00	-0	088	325	5	26	19	00	1837	8	0000	, I 14	4418								ļ	1
		14	5	OB:	s 00	00	-0	088	325	50	26	519			_		14	4418									
				S	TD 00	10	-0	102	326	2	26	525	00	1779	2	0018	5 14	4414									
				08	s 00	10	-0	102	326	20	26	25	~~		~		14	4414									
				S	TD 00	20	-0	109	326	4	20	21	00	1 / 61	2	0030	) 14 1	4413									
				08	s 00	20	-0	109	326	40	26	27	00	721	<u> </u>	2063	1 1	4413									
				S	10 00	30	-0	105	320	8	20	30	00	1121	0		1	4417									
				08	5 00	30	-0	105	220	20	20	550	00	306	1	0.0.9	1	4430									
				~ ~ ~		50	-0	097	231	20	20	565	00		•		1	4430									
				00		76	-0	100	232	ີ້	24	582	00	231	9	0117	, ī.	4436									
				08	c 00	75	-0	100	333	30	26	582	••		<i></i>		i	4436									
				c C C	3 00 TD 01	00	-0	088	334	4	26	591	00	1150	7	0147	7 1	4447									
				OB	S 01	00	-0	088	334	40	26	591	• •				14	4447									
				ŝ	TD 01	25	-0	120	335	5	2	701	00	1054	1	0179	5 1	4438									
				ОB	S 01	25	-0	120	335	50	2.	701					14	4438									
				S	TD 01	50	-0	115	336	4	2	708	00	985	6	0200	1	4446									
				08	S 01	50	-0	115	336	40	2	708					1	4446									
				s	TD 02	00	0	002	339	5	2	728	00	799	0	0249	5 1	4512									
				QB	S 02	00	0	002	339	50	2.	728					1	4512									
				S	TD 02	50	0	043	340	6	2	735	00	0738	2	0283	3 1	4541									
				ОВ	S 02	50	0	043	340	60	2.	735					1	4541									

REFERENCE	SHIP CODE		10		MARSOEN SOUARE	s 	IATION (GMT	TIME ) HR.1/10	YEAR	CRUISE NO.	RIGINAT STA NU	OR'S TION MBER	DEPTH TO BOTTO	MAX DEPTH OF S'MPL	OBS 5 DIR	WAV SERVA	E TIONS	WEA- THER CODE	CLOUD CODES	7		NODC STATION NUMBER	
318160	WE	76170N	07	4020W	260 6	4 09	28	166	1969	WE2	057	-	0420					02	68			0057	
					· ·	WATER	Ť	WIND	-		R TEMP.	C	NO.	1		Ľ				,			
					cou	OR TR	INS DIR	SPEED	MET		24	WET CO	OBS.	OBSERV	CIAL /ATIONS								
					co	DE 6	m) 010	FORC	E (mb	∎1 BU	LB E	ULB	DEPTH	2									
					D	r   s	00	Isoo	25	5 -02	2 -0	7 18	13										
	MESSENG TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	זז		s•4.	SIG	MA-T	SPECIFIC	VOLUME	∑ ∆ 1 DYN. x 10	A. SC	LOCITY	02 ml/l	PO V S	4-P • a1/1	101AL-P µg = 01/l	NO2-N µg - ot/l	NO3-N 49 - at/l	SIO4-3 yg - et	ji /I pH	SOC
												1										1	
	•		STD	0000	-014	5 3	250	26	16	0018	608	000	0'14	391		,							ŕ
	16	5 C	BS	0000	-014	53	2500	26	16				14	4391									
			STD	0010	-010	53	277	26	37	0016	633	001	3 14	4415									
		C	BS	0010	-010	53	2770	26	37				14	4415									
			STD	0020	-009	3 3	283	26	42	0016	203	003	4 14	+423									
		L.	205 CTD	0020	-009	2 3	2020	20	42	0014	045	004	- 1/	+423									
		0	BS	0030	-008	9 J 9 J	3110	20	64 64	0014	000	004	· 14	430									
			STD	0050	-009	0 7	332	26	81	0012	443	007	5 14	4436									
		c	BS	0050	-009	0 3	3320	26	81	0011		001	14	4436									
			STD	0075	-010	1 3	347	26	94	0011	244	010	5 Î4	4437									
		C	BS	0075	-010	1 3	3470	26	94				14	4437									
			STD	0100	-008	83	360	27	04	0010	283	013	2 14	4449									
		C	BS	0100	-008	83	3600	) 27	04				14	4449									
			STD	0125	-007	63	372	27	13	0009	402	015	7 14	4461									
		C	PBS	0125	-007	6 3	3720	) 27	13				14	4461									
			STD	0150	-004	5 3	383	27	20	0008	685	017	9 14	4481									
		C	BS	0150	-004	53	3830	) 27	20				14	4481									
			STO	0200	001	4 3	405	21	35	0007	295	021	9 14	4519									
		L L	185	0200	001	4 3	4050	21	35	0006	4.00	0.25	. 14	4519									
		~	510	0250	-000	2 7 2	414	21	44	0006	480	025	4 14	4918									
		· ·	STD	0250	-000	5 2	425	21	51	0005	770	028	L 1/	4510									
		·	BS	0300	001	6 3	4250	27	51	000.		0-0-	1/	4540									
			STD	0400	-002	5 7	432	27	59	0005	003	033	R 14	4538									
		C	BS	0400	-002	5 3	4320	27	59			<u> </u>	1	4538									
					201																		

REFER CTRY CDDE	ID. NO.	SHIP CODE	LATITU	DE	LONGITUDE	DRIFT	MARSI SQUA	DEN RE		ON TI GMTI	ME	YEAR		ORIGI	NATOR STATIC	'S ) N FR	80	TO DITOM	MAX. DEPTH OF	OBS	WAVE ERVATIO		WEA- THER CODE	CLOU	DS		N STA NU	OOC VTION IMBER	
210	140	WE	7(2)	<u></u>	07224.014					25			1	-			1		SHOLS	DIR	In G1 PER	- 30			-		1		
1 210	100	I WC I	/021		0752400	4	:60 J	63	09 12	8 1		1969	IWE	2 05	8		10:	550		L			01	6			0	058	
							b	OLON D	ER		SPELD	BAR	안 누	AIR TE	MP. (		s.	NO.	SPEC	IAL									
								CODE	(m)	DIR,	OR FORCE	Imb	12	BULB	BUL	B	°" Di	EPTHS	OBSERV	ATIONS									
								DT	s	00	<b>S</b> 00	25	7 -	028	-04	4 7		14											
		MESSENGI TIME NR 1/10	CAST NO.	CARE	DEPTH (	m }	T	¢	s	·4.	SIGA	<b>A</b> .≁T	SPEC	IFIC VDLI	JME 107	₹Δ0 DYN. / × 10 ³	р. М.	SOU VELD		02 ml/l	PO4-	.р 1/1	totAL=P µg•at/t	NO2-1 29 - al/	NO3-1	а <u>S</u> ID 1 уд-	4-51 a1/1	pН	500
			1 1																						1				1
			•	ST	o o o o o	) [']	-01	30	325	5	262	20	00	1826	0	0000	o '	143	98		1				'	1			
		177	7	085	0000	)	-01	30	325	50	262	20						143	398										
				ST	D 0010	)	-01	33	327	0	263	32	00	1709	3	0018	в	144	+01										
				085	0010	)	-01	33	327	00	263	32						144	01										
				ST	D 0020	)	-01	20	330	0	265	56	00	1481	8	0034	4	144	13										
				085	0020	)	-01	20	330	00	265	56						144	13										
				ST.	D 0030	)	-00	75	334	1	268	38	00	1181	6	004	7	144	41										
				085	0030	)	-00	75	334	10	268	38						144	41										
				ST	D 0050	)	-00	69	334	7	269	92	00	1137	1	0070	C	144	48										
				OBS	0050		-00	69	334	70	269	92						144	48										
				ST	0 0075		-01	14	336	2	270	)6	00	1005	2	0097	7	144	33										
				085	0075		-01	14	336	20	270	6						144	33										
				ST	0 0100		-00	35	338	1	271	. 8	00	0889	7	0121	1	144	•77										
				OBS	0100		-00	35	338	10	271	.8						144	77										
				ST	0 0125		00	00	338	Z	271	.8	00	0898	1	0143	3	144	97										
				085	0125		00	00	338	20	271	.8			_			144	97										
				ST	0 0150		00	02	339	5	272	28	00	0799	8	0164	+	145	04										
				085	0150		00	02	339	50	272	8		-				145	04										
				STI	0200		-00	10	340	6	273	37	00	0709	1	0202	2	145	08										
				085	0200		-00	10	340	60	273	17						145	08										
				511	0250		-00	08	341	6	274	5	00	0633	3	0235	>	145	19										
				085	0250		-00	08	3410	50	274	15			_			145	19										
				511	0300		00	07	342	4	275	1	00	0580	3	0266	2	145	35										
				085	0300		00	07	342	40	275	1	~ ~					145	35										
				STI	0400		-00	20	3421	9	275	6	00	0533	4	0321	L	145	40										
				UBS	0400		-00	20	342	80	275	6	~ ~					145	40										
				STI	J 0500		00	22	343	5	275	.9	00	0704	9	0373	5	145	11										
				OBS	0500		00	22	343	50	275	9						145	17										

REFER	ENCE					- :	MAR	SDEN	STAT	ION TI	IME			ORIGI	NATOR	s	D	DEPTH	MAX.		w	AVE	WE	A-	CLOUD	-		NODO	
CTRY	10.	CODE	LATITU	DE	LONGITUDE		sou	ARE	(	GMT		YEAR	CI	RUISE	STATIC	н	1.0	10 MOTIO	OF	08	ISERV	A TIONS		ER	CODES			STATIO	N R
CODE	но.			1/10	· '1/		10*	1.	MO	DAY H	R.1/10			NO.	NUMB	ER	1-0		S'MPL'S	DIR,	нG	T PER SE		-	TYPE AM	1			_
31	8160	WE	7625	ON	072470	4   -	260	62	09 2	28 ] 1	189	196	9 🕷	1E2 05	59		05	530					0	1	6 7			005	9
								WA	TER	V	VIND	BA	RO-	AIR T	EMP. C		. []	NO.	SPEC	141	]								
								COLOR	TRANS	DR.	SPEED OIL FORCE	6 (m	TER bal	DRY SULS	WE BUL	в		OBS. EPTHS	OBSERV	ATIONS									
								DT	S	00	500	2	60	-028	-04	4 7		14											
		MESSENG TIME HR 1/10	CAST NO.		PE DEPT	1 (m)	1	٣	· s	•/	sigi	MA-T	SP A	ECIFIC VOL	UME 102	₹ Δ 0 01N. 7 x 10 ³	<u>у</u> .	SOU VELO	CINI TID	02 ml/	ч ,	PO4-P yg - 01/1	101A1 99 ol	- P /1	NO ₂ -N yg - at/l	NO3-N Vg - al/1	51 O 4 19 -	~\$i a1/1 P	H C
																											1		
				S	00 QT	00	-0	080	33(	2	26	56	C	001480	01	0000	0	144	+28										
		18	9	08	s 00	00	-0	080	330	20	26	56					_	144	428										
				S	TD 00	10	-0	088	33(	02	26	57	O	001470	59	001	5	144	+26										
				08	S 00	10	-0	088	330	120	26	57					~	144	+26										
				S	TD 00	20	-0	087	330	15	20	59	U	0145	56	002	9	144	+29										
				OB	5 00	20	-0	087	330	150	20	59		01416		00/		144	+27										
				 	10 00	30	-0	085	221		20	60	0	0141:	10	004.	•	144	12										
				00	5 00	50	-0	085	33/	100	20	02	0	0113/	5.4	0069	9	144	37										
				08	s 00	50	_0	0.92	33/	60	26	02		01150	, -	000	·	144	37										
				Š	70 00	75	-0	0.88	33/	56	27	0.8	0	0098	36	0098	5	144	46										
				08	5 00	75	-0	088	33/	560	27	0.8						144	446										
				s	TD 01	00	-0	062	337	77	27	16	C	00908	36	011	9	144	+64										
				08	5 01	00	-0	062	33	770	27	16						144	+64										
				S	TD 01	25	-0	030	338	36	27	22	C	00853	31	014	1	144	\$84										
				OB	S 01	25	-0	030	338	360	27	22						144	+84										
				s	TD 01	50	0	037	34(	)3	27	33	0	00075	78	0162	2	145	521										
				08	S 01	50	0	037	34(	030	27	33						145	521										
				S	TD 02	00	0	067	34	15	27	40	C	000684	+5	0198	8	145	545										
				08	S 02	00	0	067	34:	150	27	40						145	545										
				S	TD 02	50	0	053	342	20	27	45	C	000631	31	023	1	145	547										
				08	S 02	50	0	053	342	200	27	45	_				_	145	547										
				S	10 03	00	0	045	343	30	27	54	C	0055	75	026	1	145	553										
				OB	IS 03	00	C	045	34:	300	27	54						145	553										
				5	10 04	00	0	000	34	33	27	59	C	00050	/ 1	0314	4	145	550										
				08	15 04 TD 05	00	0	0000	34	0 2 2	27	59		0044	-	030	2	145											
				08	10 02 IS 05	00		060	344	+ 4	21	64	U.	100461	5 /	036.	2	140	508										
				00	5 05	00	, c	000	244	+40	21	04						145	190										

									_							T						1	T	1				
REFEREN	IO.	SHIP	LATITU	DE		MARS SQU	DEN ARE	STAT	ION TI	IME	YEAR		ORIGIN	STATIO	'S ON	BO1	EPTH TO TTOM	DEPTH OF	085	WA ERV	VE A TION S	WEA- THER CODE	CLOU	5		5	NODC TATION UMBER	
	NO.			1/10	1/10 -	10*	1.	MOI	DAYH	R.1/10		NO.		NUM	SER			2.Whr.2	DIR	HGT	PER SE	A   -	TYPE	41		_		
318	160	WE	7629	N	072070W	260	62	09	28 2	205	1969	WE2	06	0		03	370			I.		02	6 -	'			0060	
							WAT	ER	v	VIND	BAR	o-	AIR TE	MP. 1		N	10.	SPEC										
							COLOR	TRANS.	DIR.	SPEED OR	MET		DRY	WE	1 000	DE	PTHS	OBSERV	A TION S									
						-	CODE			FORCE	0.0		010			+	_											
							DT	S	00	500	26	5 -0	22	<u>-04</u>	8 7	11	. 2			-				-			T- · · ·	
		MESSENGI TIME	CAST NO.	CAR	DEPTH (m)	Ť	٣	s	•/	SIG	A-T	SPECIFI	VOLI	JME 107	₹ Δ 0 DYN. A X 10 ³	Å.	SOU VELC	ND CITY	0 2 ml/l	ן ע	104-P 9 - 01/1	fDTAL→P µg - ol/1	NO2+N µg - a1/	NO3	-N :	SIO4—Si VQ - q1/I	рН	500
		<b>FK 1710</b>		-		+		+		1	-			-+		-+-				+-	-			+				$^{+}$
				   51		-00	064	330	00	26	54	001	500	9	0000	, I	144	436		1			I	I	1		1	1
		201	5	080	5 0000	-00	064	330	000	26	54						144	436										
		20	<i>,</i>	SI	0010	-00	070	330	06	26	59	001	452	3	0015	5	144	435										
				OBS	5 0010	-00	070	330	0.60	26	59						144	435										
				51	0020	-00	071	330	7	26	50	001	443	8	0029	9	144	437										
				083	5 0020	-00	071	330	070	26	50						144	437										
				S1	D 0030	-00	073	330	9	26	62	001	427	3	0044	•	144	438										
				085	5 0030	-00	073	330	90	26	52						144	438										
				S1	TD 0050	-00	086	334	45	26	91	001	146	1	0069	9	144	440										
				085	5 0050	-00	086	334	450	26	91						144	440										
				S1	D 0075	-00	050	33	55	26	98	001	082	5	0091	7	144	462										
				083	5 0075	-00	050	33	550	26	98						144	462										
				S1	rd 0100	-00	020	33.	74	27	12	000	949	9	0123	3	144	+83										
				085	5 0100	-00	20	33	740	27	12			_			144	483										
				S1	rD 0125	00	043	331	86	27	19	000	890	5	0146	ò	145	517										
				085	5 0125	00	043	338	360	27	19					_	14	517										
				S1	TD 0150	00	040	339	92	27	24	000	843	1	016	7	14	521										
				085	5 0150	00	040	339	920	27	24						14:	521										
				S1	rD 0200	0	115	340	27	27	31	000	116	2	0208	5	14	565										
				089	5 0200	0	115	341	010	21	51 51	000	4.04		02/5		14:	202										
				5	0250	0	140	34	20	21	40	000	0.90	4	0245	,	14:	000										
				000	0250	0	1 2 0	34	200	27	4-0 6-1	000	500	6	027-	,	14:	506										
				000	0300	0.	1 2 0	24	240	27	51	000	270		021	r	143	506										
				063	5 0500	U.	1 20	94.	940	21	21						141	,,0										

REFERENC	E SHIF	E		/10		MAR SOU	ARE		DN TI GMTI	IME	YEAR	CRUI	ORIGI SE	NATOF STATE	"S DN BER	8	DEPTH TO SOTTOM	MAX. DEPTH OF S'MPL'S		W. OBSERV	A VE /A TIOP		WEA- THER CODE	CLC	DES			NODC STATION NUMBER	
31810	50 WE	1	76339	NO	71310W	260	61 WAT	09 2 ER	8 2	217 VIND	1969 BAR	WE D- ER	2 O C	EMP.		C	NO. 085.	SPEC		45			02	6	7			0061	I
							DT	S	00	FORC	tmbi 26	" 5 -	022	-02	28 7	ſ	13			-									
	MESSE TIM	NGR IE 01 /10	CASI NO.	C ARD TYPE	DEPTH (m)	t	٣	s	·/	SIG	MA-1	SPECI	FIC VOL	UME (10 ⁷	ΣΔ DYN. X 10	о м.	SOU	DOD DCITY	02 17	1/1	PO4-1	1	rotal—P پو + at/i	NO2-	-N 21/1	NO3-N 1/1 - 01/1	SIO4- µg - ot	Si /1 рн	500
				sto	0000	-0	040	329	0	26	45	00	1586	54	000	0	144	445		,								1	Τ
	2	17		085 STC 085	0000	-0 -0 -0	040 050 050	329 330 330	00	26 26 26	45 54 54	00	1509	56	001	5	144	445 444 444											
				STC DBS	0020	-0 -0	055	330 330	3 30	26 26	56 56	00	1480	)3	003	0	144	443 443											
				ST0 085	0030	-0 -0	057	330 330	7 70	26 26	60 60	00	1448	35	004	5	144	445											
				085 510	0050	-0 -0	070	331 334	80 5	26	69 89	00	1165	52	010	5	144	444 468											
				OBS STO	0075	-0 -0	035	334 336	50 3	26 27	89 02	00	1042	28	013	2	144	468 490											
				085 510 085	0100	-0	001	336	30	27	02 08 08	00	098	75	015	8	144	490 501 501											
				570 570 585	0150	0 0	042	338 338	2 20	27	15 15	00	0920	2	018	1	149	521 521											
				STC 085	0200	0	100 100	340 340	000	27	26 26	00	0819	92	022	5	149	558 558											
				0BS 5TC	0250	0	144 144 150	341	20 0	27	33 39	00	070	51	020	1	145	587 599											
				085 570	0300	0	150 154	342 343	00 4	27	39 50	00	0605	55	036	7	145 146	599 519											
				085	0400	0	154	343	40	27	50						146	519											

REFERENCE	SHIP	LATITL	DE	LONGITUDE		SDEN	STA	TION (GMT	TIME	YEAR		DRIGIN	ATOR	'S DN	DEPIH TO RDITOM	MAX, DEPTH OF	0	W A BSERV	A VE	s	WEA- THER CODE	CLOU	DES			NOOC STATION	-
	-	-	1/10	1/10	- 10'	1.	MO	DAY	HR, 1/10		NU.	-	10 M 8			SIMPLI	S OIR.	HG	T 9EN	SEA		TYPE A	MT				{
31816	D  WE	7638	38N	070523W	260	60	09	28	230	1969	WE 2	06	2		0210	,L	L	_			73	X	9			0062	
						WA	TER		WINO	BAR	>-  '	AIR TE	ир. °C		NO.	SPE	CIAL										
						CODE	TRAN (m)	S. DIR	FORC	۲ ۸۹۴۲ ۱ ۱	R (	UL9 UL9	801 801	T COD .8	OEPTHS	OBSERV	ATION	5									
						OT	s	00	S00	27	2 -0	22	-02	8 7	10		_										
	MESSENG TIME HR 1/1	CAST	CA IY	RD OEPTH G	a 1	<b>5</b> 1		s •4.	SIG	MA-T	SPECIFIC	VOLU	ME 07	∑ ∆ D OYN. N X 10 ³	SO VEL	UNO OCITY	0 2 ml.	л,	PO4-P	ד0 ע	9 - 01/1	NO ₂ —1 yg - ot	N NC 1 yg	03-N - 01/1	– ۵۹ - ۵۹	Si pH	
			5	10 0000	-0	010	32	09	25	79	00 Z	218	2	0000	14	448											Ι
	23	0	08	s 0000	-0	010	32	090	25	79		-			14	448											
			S	ro 0010	-0	011	32	16	25	84	002	163	7	0022	14	450											
			OB:	5 0010	-0	011	32	160	25	84					14	450											
			S	ro 0020	-0	006	32	25	25	91	002	096	5	0043	14	455											
			08:	5 0020	-0	006	32	250	25	91					14	455											
			S	TD 0030	-0	004	32	60	26	20	001	829	5	0063	14	463											
			OB:	5 0030	-0	004	32	600	26	20					14	463											
			S	TD 0050	-0	015	32	80	26	36	001	671	1	0098	14	464											
			08:	5 0050	-0	015	32	800	26	36			_		14	464											
			S	10 0075	-0	032	33	08	26	59	001	449	0	0137	14	464											
			08	5 0075	-0	032	33	080	26	59		212		0171	14	464											
			2		-0	020	22	20	20		001	512	•	0171	. 14	412											
			08		-0	028	22	200	20	00	001	162	7	0202	14	412											
				0125	-0	023	22	47	20	90	001	195	<i>'</i>	0202	14	402											
			00	5 0125	-0	005	22	45	20	04	001	020	6	0220	14	501											
			08			005	22	650	27	04	001	027	0	0-27	14	501											
			- 00. c	ID 0200	0	054	- 23	85	27	17	000	904	2	0278	14	535											
			0B:	s 0200	0	054	33	850	27	17		/04	•	0-10	14	535											

REFER	ENCE	SHIP				1.1	MARS	DEN	STA	TION	TIME			ORIGIN	AATDR'S		DEPTH	MAX, DEPTH		WAN	/E	WEA	CLOU	p		NOOC	1
C187	ID.	CODE	LATITU	I DE	LONGITUOE	N D N	3000			1G M		TEAR	CRUIS		STATIO	N	10 60110 <i>N</i>	OF			IIUNS	CODE	CDD	2	- i	NUMBER	1
	NO.			1/10	1/10	-	10*	1.	MD	OAY	HR.1/10		NO.	- ·	-	R		SWPL	S OR	HGT	PER SE	A	TYPE A	11			ł –
318	3160	WE	7620	2N	070100W		260	60	09	30	158	1969	WE2	06	3		0200					71	X [ 9			0063	1
								WA	TER		WIND	BAR	o- 🗆	AIR TE	MP. C		NO.	SPE									
								COLDR	TRAN Iml	⊆ D#	SPEE	D MET LIMB	ER el	ORY	WET	C00	DEPTHS	OBSERV	ATIONS								
								DT	S	20	509	23	3 -0	11	-01	7 4	10		-								
		MESSENG	CAST	CA	RD DEPTH	(m )	T	r		s •4.	SIC	GMA-T	SPECIF	C VOLU	UME 107	≨ ∆ 0 DYN. M	. SO VEL	UNO	02 ml/l	Р( У9	04-P - 01/I	TOTAL-P	NO2-1	NO3-N 1 µg - at/l	51 O 4-	-Si pH	500
		HR 1/10	· · · · · · · · · · · · · · · · · · ·				+ -									X 10				+				+	<u> </u>		+
			I.	_ ا	TD 000	0	1	0.20	121	75	1 26	562	003	474	5 1	აიიი	14	430						1	l	I	
		16	•	~ ~	000	0	-00	020	21	750	2.	552	007				14	439									
		19	0	00		ň	-00	020	31	80	21	556	002	432	6 (	0 2 5	14	437									
				085 ST 085	10 001 5 001	ň	-00	020	21	.00 anr	29	556	002	+52			14	437									
				0D.		ň	-00	020	31	88	2.	562	002	371	2 (	1049	14	440									
				08	C 002	ň	-00	027	31	881	29	562	002		~ `	/04/	14	440									
				00	5 002	ň	_0(	016	32	22	25	580	003	114	0 0	וד מר	14	452									
				08	c 003	õ	-00	016	32	220	29	580	002				14	452									
				6	5 005 TD 006	0	-00	010	32	52	24	514	0.01	880	<b>1</b> 4 (		14	463									
				08	S 005	õ	-00	008	32	530	26	514	00,	000			14	463									
				č	το 007	5	_0	016	33	103	24	555	0.01	494	2 0	0153	14	471									
				08	S 007	5	-00	016	33	10 30	26	555		• • •			14	471									
				Š	το 010	ó	-00	016	33	27	26	574	001	310	12 (	0188	14	47B									
				08	S 010	õ	-01	016	33	1270	24	574			-		14	478									
				Š	το 012	5	-00	004	33	48	26	590	001	155	1 0	0219	14	491									
				S 089	s 012	5	-00	004	33	480	26	590					14	491									
				5	TD 015	ó	-00	002	33	56	26	597	001	094	6 (	0247	14	497									
				08	5 015	õ	-01	002	33	1560	26	97	50.				14	497									
				S	TD 020	0	0	007	33	64	27	703	001	037	3 (	0300	14	510									
				OB	5 020	ō	0	007	33	640	2	703					14	510									

				1						T		T-				Т		1 44 4 9	-			1	T			T	- 1	
REFER	INCE	SHIP	LATITU	30		SOU	ARE	STAT	IDN T GMTI	IME	YEAR	-	ORIC	SINAT(	JK"5		DEPTH TO	DEPTH	OBS	WAVE ERVATIO	ONS	WEA-	CLOU	5			NODC	
CODE	NO.	CODE	•	1/10	·1/10	10*	11.	MOL	AY	IR.1/10		CR	10.	HUN	ABER		BOTTOM	OF S"MPL"	DIR	HGT PER	SEA	CODE	TYPL IA	MT			NUMBER	
219	140	we	7614		0704608	260	60	00 3	0	173	1060	1 in	E 2 0	64			0610		1			02	Y C	<u>,  </u>			0064	1
510	100	ME 1	/614	UNI	070460W1	200	00	168			1909	1.44		TEMP	<u>۲</u>	I	0010	r ¹	ا _ل ــــــا		1	1 02	1 4 13				0004	
							COLOR	TRANS		SPEED		O- ER	ORY	- V	VET		OBS.	SPE										
							COOE	Im)	CIR.	OR FORCE	(mb	=1	BULB	8	ULB		DEPTHS	OBSERV	2110143									
							DT	S	14	\$15	22	3	-011	-0	17	7	15											
		MESSENGE	CAST	CAR	p	[		1		Υ <u>-</u>					٤	Δp											e	Ţ
		TIME	Y NO.	TYP	E DEPTH (m)	T	C	S	•/•••	SIGA	1- AN	A	NOMALY	-1107	DY	N, M	· VELO	OCITY	02 mi/i	101-0	H/I	yg = et/l	ri02-n ⊮g - al/		03-H 1-01/I	104-0	N PH	Ċ
		HR 1/10						+				+			<u>^</u>	10				-		_						Ŧ
	ļ		1 1	с <b>т</b>	n 0000	- 01	0.00	1220	5	26	51	1	0153	37	1	00	1.6.	427			- 1			ļ	1		1	I
		173		0.90	0000	-0	000	320	50	20	51	0	0155	121	00	00	14	421										
		173	•	003 ST	D 0010	-01	080	320	17	26	53	0	0151	68	00	115	14	427										
				085	0010	-00	0.83	329	70	26	53	•	0101	00	0.	17	14	428										
				ST	D 0020	-00	087	330	0	26	55	0	0149	20	00	30	14	428										
				085	0020	-00	087	330	000	26	55			-		-	14	428										
				ST	D 0030	-00	089	330	)5	26	59	0	0145	24	00	45	144	430										
				085	0030	-00	089	330	50	26	59						144	430										
				S۲	D 0050	-00	075	333	6	26	84	0	0121	90	00	72	144	444										
				085	0050	-00	075	333	60	261	94						144	444										
				ST	D 0075	-00	040	335	5	26	98	0	0108	67	01	01	144	467										
				085	0075	-00	040	335	50	26	98						144	467										
				ST	D 0100	-00	002	336	3	270	2	0	0104	24	01	27	144	490										
				085	0100	-00	200	336	30	27(	2						144	490										
				ST	D 0125	00	28	337	4	27	10	0	0097	36	01	52	14	509										
				085	0125	00	28	337	40	27	10						14	509										
				ST	D 0150	00	054	338	5	27	17	0	0090	43	01	76	14	526										
				085	0150	00	054	338	150	27	17	~			• •		14	526										
				51	0 0200	0.	102	339	9	277	25	Q	0082	81	02	19	14	558										
				085	0200	0.	102	339	790	21	25	0	00 <b>7</b> 0	<b>7</b> 3	0.2	E 0	14:	558										
				0.00	0 0250		101	241	70	21.	51	0	0072	12	02	20	14:	591										
				005	0250	0.	1 7 0	241		21.	21	0	0044	00	0.2	0.2	14:	291										
				085	0300	0	170	342	80	27	44	0	0000	00	02	93	140	609										
				ст ст	0400	00	121	343	1	27	55	Ω	0054	12	03	53	140	564										
				085	0400	0	031	343	10	27	55	0	0024	1-	0.0	,,,	14	564										
				ST	D 0500	-00	002	343	3	27	59	0	0050	49	04	05	14	566										
				OBS	0500	-00	002	343	30	27	59	Ť		•			14	566										
				ST	D 0600	00	080	344	3	270	52	0	0048	54	04	55	140	621										
				085	0600	00	080	344	30	276	52						146	621										

REFI	ERENCE						£	MARS	DEN	STAT	ION T	IME				ORIGIN	ATOR'S		1 0	DEPTH	MAX		w	AVE		1	EA-	CLOU	0			HOD	c	
CTRY	10.	CODE	LATITU	D٤	LON	GITUDE		sour	ARE	(	GMN		YEA	LR I	CRUISE	5	TATIO	1	1.	10 1170 M	OF	0	BSER	VAT	IONS	17		COD	ES			STATIC	ON	
CODE	NO.			1/10		*1/10	-	10*	1. 1	10 0	AY F	(R, 1/10			HO.	· · · ·	UMBE	R	- B.C	3110m	S*MPL'S	5 Dir.	H	GT PE	R SE/			TYPL A	MT		<del> </del> _			
31	8160	WE	7609	ON	07:	1225W		260	61 0	9 3	30	187	190	69	WE2	06	5		0	530							73	X   9	9			00	65	
								[	WAT	R		NIND		A PO		AIR TE	M.P. °C	Τ	Ť	HO.			٦́ ا											
								ſ	COLOR	RANS.	DIR	SPEED	P A	AETER	1	DRY	WET	COL	be _	085.	OBSERV	ATION!	s											
								ļ	CODE	(m)		FORC	E	(mbs)		ULS	BULE		Ľ	-														
									DT	S	14	514	F   1	220	)	03	-014	+ 6		14														
		MESSENG	R CAST	CA	80							T			SPECIEI		ME	٤∆۵	2	SOU	IND			PO -	P	1014		NON	Ι,	NON	SIQ			5
		TIME	Y NO.	Ť	PE	DEPTH im	1	T	τ	S	•	\$IG	MA-	-T	ANON	AL7-11	07	DYN, /	м.	VELO	CITY	0 2 ml	^	¥0.	at/I	×0 -	ot/1	20 - al/		19 - at/1	µg = at	/1	PН	C
		H# 1710	,		-							+							-				+		- +		-+					+		H
				_ ا		0000		00	70	220	0	1	1.6	- 1	001	575	<u>،</u> ا	000	۰ I	1.44	. 21				1		1		ł	1		I.		11
		10	7	0	(D	0000		-00	70	220	200	20	40		001	575	4	,000	,	144	-31													
		10	(	00	э т П	0000		-00	172	220	32	26	40		003	558	0 1	01/	6	144	32													
				08	ç	0010		-00	172	320	220	26	40		001	220	<i>,</i>		5	144	32													
				° C	τn	0020		-00	174	320	20	26	50		001	542	3 1	103	1	144	133													
				08	c	0020		-00	174	320	240	26	50			2.12	-		•	144	33													
				S	тр	0030		-00	071	333	30	26	79		001	267	3 (	004	5	144	41													
				08	s	0030		-00	71	333	300	26	579				-			144	441													
				S	TD	0050		-00	89	334	+9	26	95		001	114	5 (	006	9	144	139													
				08	s	0050		-00	089	334	490	26	595							144	439													
				s	TD	0075		-00	90	336	55	27	807		000	990	5 1	009	5	144	445													
				08	s	0075		-00	90	336	550	27	807							144	445													
				S	TD	0100		-00	68	33.	78	27	717		000	898	5 (	(11)	9	144	461													
				OB	s	0100		-0(	68	33	780	27	717							144	461													
				S	۲D	0125		-00	23	338	39	27	24		000	833	6 (	)14	1	144	\$88													
				08	S	0125		-00	23	338	390	27	724							144	+88													
				S	TD	0150		-00	003	339	97	27	730		000	782	0	016	1	145	502													
				OB	S	0150		-00	003	339	970	27	730						_	145	502													
				S	TD	0200		-00	145	340	15	27	738		000	699	4	1198	в	144	492													
				08	S	0200		-00	045	340	150	27	738							144	492													
				- 5	TD -	0250		-00	132	34	14	21	45		000	636	1	123	1	142	508													
				08	5	0250		-00	132	34.	140	21	45		000	602	2	120	2	142	500													
					10	0300		00	240	24	27	21	750		000	172		120	6	140	550													
				UB c	TD	0400		- 00	)40 )13	24	200	21	750		000	522	2	131	R	140	544													
				00	c	0400		-00	212	34	300	27	757		000	122	-	10	-	145	544													
				 <		0500		-00	107	34	33	27	759		000	501	8	036	9	145	563													
				08	5	0500		-00	07	34	330	27	759				-		-	145	563													
				20	-							د ا																						

REFERENCE	SNIP CODE	LATITU	IDE 1/10		ND SO SO	RSDEN UARE	STATIC IG MO D		ME 2,1/10	YEAR	CRUISE NO.	ORIGIN	ATOR'S TATION NUMBER		DEPT TO BOTTO	H C	MAX. DEPTH OF "MPL'S	OBS	WAV ERVA		WEA THER COOL	CLOI	ES MT			NOUC STATION NUMBER	
318160	WE	7604	ON	071550w	26	0 61	09 3	0 1	98	969	WF2	06	6		043	0					02	6	8			0066	
1 - 10 10	-1		<b>.</b>		1 1	WA	TER	- <u> </u> -		1		AIR TE	MP. C		1 10	-			1 1	1	1 0 -	1 - 1	- 1		I		1
						COLOR	TRANS.	DIR.	SPEED	METE	R	DRY	WET	VIL COD	085	:											
						CODE	(m)	U.C.	FORCE	(mba	1 8	ULE	BULB		DEPTH	NS											
						DT	S	14	S14	21	B - O	03	-014	6	13	-1-											
	MESSENG TIME HR 1/10	CAST NO.	CARU	D DEPTH 1	m)	тъ	5	4.	SIGA	A-T	SPECIFIC	C VOLU	ME D	∆ 0 YN, M X 10 ³	s. vi	ELOC	D ITY	0 2 mi/1	PO PO	)4-P - 01/1	101AL-P µg • o1/l	NO2 µg - al		NO3N Ig - at/1	51 O41 29 - 01	ji pH	500
							1														[						Т
	•		ST	D 0000	) –	070	330	0	265	54	001	498	8 Ó 0	000	1	443	33 '							,			•
	198	3	OBS	0000	) -(	070	330	00	265	54					1	443	33										
			ST	D 0010	) -(	0800	330	4	265	58	001	464	20	015	1	443	30										
			085	0010	)(	0800	330	40	265	8					1	443	30										
			51	0020		086	330	5	265	59	001	454	0 0	029	1	442	29										
			085	D 0020	-0	1086	330	20	20:	99	001	201	2 0	<b>~</b>	1	442	29										
			0.00.0	0030		1089	231	20	200	20	001	291	2 0	044	1	443	21										
			003 ST	D 0050	, _(	1089	335	202	260	20	001	083	8 O	068	1	442	51										
			085	0050	(	1089	335	30	269	,0 3 A	001	005	0 0	000	1	444	40										
			ST	0 0075		0.87	336	5	270	) A	000	991	6 0	094	ī	444	46										
			085	0075	. –	0087	336	50	270	0	000		0 0		î.	444	46										
			ST	D 0100	) – (	072	337	6	271	16	000	912	2 0	118	ī	445	59										
			085	0100	) –(	072	337	60	271	6					1	445	59										
			ST	D 0125	i(	0042	339	4	272	29	000	786	70	139	1	448	30										
			OBS	0125		042	339	40	272	29					1	448	30										
			ST	D 0150	) (	030	340	4	273	34	000	746	3 0	159	1	451	18										
			OBS	0150	) (	0030	340	40	273	34					1	451	18										
			ST	D 0200	) (	035	341	2	274	+0	000	688	1 0	194	1	453	30										
			08s	0200	) (	035	341	20	274	•0					1	453	30										
			ST	D 0250	) -(	0010	341	7	274	•6	000	624	70	227	1	451	18										
			085	0250	- (	0010	341	70	274	•6				26-	1	451	18										
			ST	D 0300	- (	0023	342	3	275	2	000	571	4 0	257	1	452	21										
			OBS	0300	-(	1023	342	30	275	2	000	E 0 /	- 0	2 1 1	1	452	21 4 3										
			51	0400		014	343	2	275	19	000	506	5 U	211	1.	454	+ 5										
			085	0400	, –(	1014	545	2 U	21	17					- T.	474	+ 2										

REFE	ID. NO.	SHIP CODE	LATITU	ICE			SOEN	STATIO (G)	N TIA MTI	AE	YEAR		RIGIN	ATOR'S	N	DEPTH TO BOTTOM	MAX DEPTH OF	085	WAVE ERVATION	NS	WEA- THER CODE	CLOUD			NODC STATION NUMBER	
				1710	1/10	10.		MU UA	Y HK	. 1/ 10				-	<u> </u>		15 MIL	S. UR.	HGTPEX	SEA		ITP! AM	1			
1 3 1	8160	I WE I	/558	ONI	0/2310W	260	152	09 30	2 2	17 1	969	WEZ	06	7		0340	1	1			02	618	1	1	006/	
								EX .		SPEED	BARC	)-		Mr. C	VIS.	NO.	SPE	CIAL								
							COLOR	Im1 C	DIR.	OR	(mbs	a ( ) 8	ULB	RULE	COD	DEPTHS	OBSERV	ATIONS								
							DT	S 1	14	514	21	в – о	03	-01	+ 6	12										
		MESSENGI TIME	CAST NO.	CAR	C DEP1H (m)	, ,	°C	5.	4.	SIGM	A-T	SPECIFIC	VOLU	ΜΕ 0 ⁷	₹∆□ 8 ∧ 10 ³	SOI	UND DCITY	02 ml/l	PO4-6	P T /1	FOTAL-P µg = or/I	NO2-N µg - a!/l	NO3-N 28 - al/l	SI O 4- 99 - 0	Si pH	500
								1											1						1	
		1		' s1	0000 ' D1	′ <b>−</b> 0	070	3280	כ ו	263	38 '	001	652	0 ' 0	0000	14	430 '			,					•	'
		21	7	085	5 0000	-0	070	3280	00	263	88					14	430									
				S1	D 0010	-0	065	3290	)	264	6	001	576	7 (	016	14	435									
				OBS	5 0010	-0	065	3290	00	264	•6					14-	435									
				S1	0020 D	-0	880	3302	2	265	ō7	001	476	3 (	0031	14	428									
				083	5 0020	-0	880	3302	20	265	57					14	428									
				S1	ID 0030	-0	080	3325	5	267	15	001	302	3 (	045	14	437									
				OBS	5 0030	-0	080	3325	50	267	15					14	437									
				S1	rD 0050	-0	097	3357	7	270	01	001	050	4 (	069	14	436									
				083	5 0050	-0	097	3357	70	270	1					14	436									
				S1	ID 0075	-0	095	3370	)	271	2	000	950	5 (	094	14	443									
				OB:	5 0075	-0	095	3370	00	271	2					14	443									
				SI	FD 0100	-0	050	3385	5	272	2	000	852	5 (	)116	14	470									
				08	5 0100	-0	050	3385	50	272	22					14	470									
				S1	ID 0125	-0	011	3391	L	272	25	000	824	1 (	)137	14	493									
				08:	5 0125	-0	011	3391	10	272	5					14	493									
				S	TO 0150	0	030	3405	5	273	35	000	738	7 (	)157	14	518									
				OB:	5 0150	0	030	3405	50	273	35					14	518									
				S	TD 0200	0	048	3415	5	274	2	000	672	9 (	)192	14	536									
				OB:	5 0200	0	048	3415	50	274	2					14	536									
				S	TD 0250	0	033	3424	4	275	0	000	595	7 (	)224	14	539									
				08	S 0250	0	033	3424	40	275	0					14	539									
				S	TD 0300	0	008	3426	5	275	53	000	565	7 (	)253	14	536									
				08:	5 0300	0	008	3426	50	275	53					14	536									

REFER CTRY CODE	ID.	SHIP CODE	LATIT			DUFT	MARSO SOUAT	RE	STATIO		ME	YEAR	CRUI	ORIGI		CN	60	TO TO	MAX. DEPTH OF	OBSE	WA RVA	VE A TIONS	I I	VEA- HER	CLO	JO ES				
+	140	WE	766	10.10	0720501	-	2(0)	c 2 1	MO D/		200	10/1	1		num ( 0	52K			S'MPL'S	DIK	HGT	PER SI			TYPE	MT			NUMBER	
510	5100	1 W C 3	1002		073050W		1200	221	0915		29	1965	/ WE	2 01	68		10	340		L!			1	02	6	8		- 1	0068	l.
								01.00		~	SPEED	BAF	10-	AIR 1	EMP.	vi	s.	NO.	SPEC											
							C	CODE	Im1	DIR.	OR	, (mt	s)	BULB	80		a ^{sc}	EPTHS	OBSERV	ATIONS										
								οī	S	14	\$20	20	4	003	-01	4 6	+	12												
				1			l		- 1	<u> </u>					1 .		-				r	_		_		-				_
		TIME	¹ CAST ♥ NO.	CAR	D DEPTH O	im)	1 1	°C	s •	<i>.</i> .	SIG	MA-T	SPECI	IC VOL	UME	₹∆ D DYN. /	й.	SOU	ND	02 m1/t	P	04~P	TOTA	L-P	NO2-	Ň	NO3-N	SI 04-	SI BH	
		HR 1/10							ļ		<u> </u>					X 103		VELO			148	• • • †/l	- 84	01/1	nð - 61		yg - at/l	yg - ai,	1	Ì
													1				- 1													Т
				51	0000 01	C	-01	00	327	5	26	35	00	1680	7 0	0000	כי <b>כ</b>	144	15		•		,						•	
		224	9	OBS	5 0000	2	-01	00	327	50	26	35						144	+15											
				51	0010	2	-01	03	327	8	26	38	00	1656	52	001	7	144	+16											
				085	5 0010	2	-010	03	3271	80	26	38						144	+16											
				51	0020		-010	00	3292	2	26	49	00	1549	91	0033	3	144	+21											
				005	0020	,	-010	00 60	3290	20	20	49	~ ~					144	+21											
				0.00	0030	,	-000	60	331:	2	20	00	00	1386	52	004	(	144	+44											
				003	0030	5	-000	6V 07	235	50	26	00	00			007-		144	44											
				089	0050	Ś	_001	07	2261	20	20	, , , ,	00	1092	~ ~	0012	-	144	40											
				ст ст			-010	00	2369		20	71	0.0	1084	. 0	0000		144	40											
				085	0075	Ś	-010	20	3365	50	27	00	00	900		0096	>	144	40											
				ST	0 0100	Ś	-001	83	3376		27	16	0.0	007	70	0122	,	144	540											
				085	0100	Ś	-008	83	3376	50	27	16	000	,,,,,,		0122	-	144	54											
				ST	0 0125	5	-00	30	3388	ŝ	27	24	00	837	9	0144		144	84											
				OBS	0125	5	-00	30	3388	30	27	24				•-•	•	144	84											
				ST	D 0150	)	000	02	3400	)	27	32	00	761	7	0164		145	0.5											
				OBS	0150	)	000	22	3400	00	27	32						145	05											
				ST	0 0200	)	00 3	38	3413	3	27	41	000	682	22	0200	)	145	31											
				OBS	0200	)	00 3	38	3413	30	27	41						145	31											
				ST	D 0250	)	004	44	3420	)	27	46	000	632	26	0233	3	145	43											
				085	0250	)	004	44	3420	00	27	46						145	43											
				ST	D 0300	)	000	57	3427	7	27	53	000	)557	6	0262	2	145	36											
				085	0300	)	000	7	3427	0	27	53						145	36											

REFERENCE SHIP LATIT	LATITUDE LONGIT		MARS SOU	DEN ARE	STATION TIME (GMT)		VE YEAR	CRUISE NO,	ORIGINATOR			DEPTH TO BOTTO	MAX DEPTH OF	1 OB	WAV SERVA	WAVE SERVATIONS		CLOU			NODC STATION NUMBER	
318160 WE 754	BON O	260	53 WAT COLOR CODE	ER TRANS (m)	1 0 W DIR.	02 1969 IND BAI SPEED ME FORCE (m)	WE2		9 MP. °C BULB	V15. COD	0 350 NO. OBS. OEFTH	S OBSER	CIAL VATION S			02	X	9		0069		
MESSENGR CAST TIME OF NO. HR 1/10	CARD TYPE	OEPTH (m)	T	τ	5	·/	SIGMA-T	SPECIFIC	VOLU		E Δ D DYN. W X 10 ³	. SC	LOCITY	0 2 ml/	1 PO	)4-9 - a1/1	TOTA L—? μg ~ α!/l	NO2~1 µg = a1/	N 03-1 1 pg - at	N SIO4- 11 µg + al	si /1 р.н	500
002	STO OBS STO OBS STO OBS STO OBS STO OBS STD OBS STD OBS STO OBS STO OBS STO OBS	0000 0000 0010 0020 0030 0030 0050 0050 0055 0150 0125 0150 0150 015		090 093 093 085 085 089 088 088 088 088 088 088 088 088 080 022 022	328 329 329 329 334 334 336 337 338 338 339 340 341 342 342	5 50 00 6 60 30 00 1 10 20 6 60 40 1 10	2643 2647 2647 2647 2692 2692 2706 2712 2712 2712 2719 2719 2727 2727 2735 2735 2735 2735 2735 2735	001 001 001 001 000 000 000 000 000	607 569 138 004 953 878 811 736 679 615	1 C 2 C 3 C 4 C 2 C 0 C 9 C 7 C 3 C 5 C	0000 0016 0032 0045 0067 0091 0114 0135 0154 0154		421 4421 4422 4428 4428 4435 4435 4435 4437 4447 4447 4447 4447									ŢŢ

REFER	ID.	SHIP CODE			LONGITUDE		SDEN	ST A TION IG M	TIME 1)	YEAR	ORIGINAT		OR'S TION	. (	DEPTH TO	MAX. DEPTH OF	D85	WAVE RVATIO	DNS	WEA- THER	CLOU	2		NODC	
-+				1/10	1/10	10-	1.	MD DAY	HR.1/10		NU.	NU	WRFK			S'MPL'S	OIR.	HGT PER	\$F	A	TTPE AV	A 7		UMBER	
31	3160	WE	75360	DN   0	072540W	260	52	10 01	018	1969	WE2	070		0	480					02	X   9			0070	
							WA	TER	WIND	- BAR	0. A	IR TEMP	· C		NO.	SPE									
							CODE	Im) O	IR. OR	(mb	ER D 61 BL	RY I ILB I	11 CO	DBDE	DBS.	OBSERV	A TION S								
							DT	S 2	2 520	19	6 00	00 -0	06 7	. +-	13										
		MESSENGE TIME HR 1/10	CAST NO.	C ARD TYPE		1	л г °с	5 •%	. sign	-1 = 1	SPECIFIC	VOLUME	₹ △ DYN. X 11		SOU	D CITY	0 2 ml/i	PO4-	- P	1014L-P 29 - 01/1	NO ₂ -N Vg - 01/	NO ₃ -N µg - o1/l	51 D 4—5 уд + о1/	рн	500
																									+
				ST	0000	- 0	093	3284	26	42	0016	138	000	0	144	20						1		'	
		018	3	08S	0000	-0	093	3284	0 26	42					144	20									
				ST	0010	-0	100	3287	26	45	0015	6881	001	6	144	19									
				OBS	0010	-0	100	3287	0 26	45					144	19									
				STU	0020	-0	103	3328	26	78	0012	2722	003	0	144	25									
				085	0020	-0	103	3328	0 26	78					144	25									
				510	0030	-0	115	3341	26	94	0011	222	004	2	144	23									
				005	0030	-0	112	3347	26	94	0000		00.4	,	144	23									
				0.00	0050	-0	120	3361	211	06	0010	104	006	4	144	23									
				063	0050	-0	120	2370	27	10	0000		0.0.0		144	123									
				DBS	0075	-0	096	2370	0 27	12	0009	1901	008	в	144	43									
				510		-0	0.80	3375	27	16	0005	167	011	1	144	143									
				OBS	0100	-0	080	3375	n 27	15	000	10,	011	1	144	55									
				STE	0125	-0	003	3394	27	27	0008	052	013	3	144	08									
				OBS	0125	-0	003	3394	0 27	27			0-0	-	144	98									
				STO	0150	0	074	3402	27	30	0007	871	015	3	145	38									
				085	0150	0	074	3402	0 27	30				-	145	38									
				STO	0200	Ó	142	3421	274	40	0006	891	019	0	145	79									
				OBS	0200	0	142	3421	0 274	40					145	79									
				STO	0250	0	132	3427	274	46	0006	378	022	3	145	84									
				OBS	0250	0	132	3427	0 274	46					145	84									
				STD	0300	-0	007	3427	27	54	0005	497	025	3	145	29									
				08S	0300	-0	007	3427	0 27	54					145	29									
				STC	0400	-0	014	3431	27	58	0005	141	030	6	145	43									
				OBS	0400	-0	014	3431	0 275	58					145	43									

OCCUPE         DO. CODE         SHUTUDE V/10         DO V/10         DO SUP SUP V/10         COULDE V/10         SOUARE V/10         COUNT V/10         SOUARE V/10         COUNT V/10         COUNT	PH C
CODE         NO.         NO.         NUMBER         SUITOR         SAMPL'S         DBL         NO.         NUMBER         OLI         NO. <t< td=""><td>71</td></t<>	71
318160       WE       75420N       072220W       260       52       10       01       031       1969       WE       071       0410       02       X 9       0         WATER       WIND       SARO- COORT TRANK       DIR       WIND       SARO- COORT TRANK       ORT       WIND       SARO- DEFTHS       NO- SORC       SFECIAL DEFTHS       02       X 9       02       X 9       0         WATER       DIR       DIR       MOTER       ORT       WEL       COORT       NO- DEFTHS       SFECIAL DEFTHS       OBSERVATIONS       SFECIAL DEFTHS       OBSERVATIONS       OBSERVATIONS         WISSENGR       CAST       CAST       CAST       CAST       SIGMA-T       SFECINC VOLUME ANOMALT1197       SOUND       O2       MO- PLATER       NO-N- NO-N-N       SIO- VELOCITY       O2       MIND-N       SIO- VELOCITY       VELOCITY       O2       MIND-N       VELOCITY       VELOC	71
WATER         WIND         SARD- FORCE         AIR TEMP, T OW         VIS. OBS         OS. OBS         SPECIAL OBSERVATIONS           MISSINGR         CAST         DIR         STO         192         O11         O22         7         13           MISSINGR         CAST         CAST         CAST         CAST         CAST         STO         192         O11         O22         7         13           MISSINGR         CAST         CAST         CAST         CAST         STO         192         O11         O22         7         13           MISSINGR         CAST         CAST         CAST         SIGMA-T         SIGMA-T         SIGMA-T         SIGMA-T         SIGMA         SOUND         O2         m//         PQ - P/         TOTAL-P         NO3-N         SIO_2-5-           HR         TYPE         DEPTH (m1         T         'C         S'4.         SIGMA-T         SIC/IIC VOLUME         SOUND         O2         m//         PQ - P/         TOTAL-P         NO3-N         PQ - O//         PQ -	PH C
COLOR ItANK CODE         OBJECT         OBJECT <thobject< th=""> <t< td=""><td>PH C</td></t<></thobject<>	PH C
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	PH C
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PH CC
MISSENCE TIME         CAST NO.         CASD TYPE         DEPTH Im1         T         C         S *4.         SIGMA-T         SHCHIC VOLUME ANDMALT-310?         SOUND X 103         SOUND VELOCITY         O2 ml/l µg + ot/l         PO_4-P µg + ot/l         TOTAL-P µg + ot/l         NO_3-N µg + ot/l         SIO_4-S- µg + ot/l           NR         1/10         NO         SUBDO         -0095         3295         2651         0015289         0000         14420	PH C
Time         d'All         CALL         DEPTH (m)         T         C         S * 4.         SIGMA-T         ALCOMA (Value)         DYN. M.         SUBUL         Open         Index (Value)         Index (Value)         Open         Index (Value)         Index (Value)         Open         Index (Value)	PH C
STD 0000 -0095 3295 2651 0015289 0000 14420	
STD 0000 -0095 3295 2651 0015289 0000 14420	
STD 0000 -0095 3295 2651 0015289 0000 14420	
031 OBS 0000 -0095 32950 2651 14420	
STD 0010 -0096 3297 2653 0015126 0015 14422	
OBS 0010 -0096 32970 2653 14422	
STD 0020 -0096 3300 2655 0014890 0030 14424	
085 0020 -0096 33000 2655 14424	
STD 0030 -0100 3335 2684 0012190 0044 14429	
OBS 0030 -0100 33350 2684 14429	
STD 0050 -0107 3356 2701 0010547 0066 14432	
STD 0125 -0009 2728 2723 0008694 0137 14440	
STD 0150 0040 3308 2728 0008027 0158 14576	
085 0150 0049 5396 2726 0008027 0156 14526	
SID 0200 0050 3416 2722 0006665 0195 14537	
085 0200 0050 3416 2742 000000 0199 14537	
STD 0250 0031 3419 2746 0006325 0227 14537	
OBS 0250 0031 34190 2746 14537	
STD 0300 0004 3425 2752 0005710 0257 14534	
OBS 0300 0004 34250 2752 14534	
STD 0400 -0007 3429 2756 0005333 0313 14546	
08S 0400 -0007 34290 2756 14546	

REFE CTRY CODE	ID. NO.	SHIP CODE	ι.Α.ΠΠU	100E LON 1/10		OHGITUDE		MARS SOU	DEM ARE	STATION (GMT MO DAY		TIDN TIME (GMT) DAY HR.1/10		c	ORIGINATO		TOR'S ATION UMBER		DEPTH TO IDTTOA	MAX DEPTH OF S*MPL	OB:	WA SERV		WEA THER CODI	CLOUI CODE	0 5 4T		NDD STATH NUMI	IC ON BER
21	8160	WE	7548	0.0	0713	380¥		260	51	10 0	1  a	44	196	9	WE2	072	2		0410		1	1		70	X   7			00	72
	0100		1240	0.11					WA	TER	W	IND	8.4			IR TEA	IP. °C		NO.		-C 141	ľ							
									COLOR	TRANS	DIR.	SPEED	ME	TER	D	RY	WET	coo	DEPTH	OBSER	ATIONS								
												FORC		0.7	-	11	022	17	12	+									
									01	S I	18	510	1	81	F0.	11	-022	1	113	J		Ļ		. · ·	r	1			
		MESSENG TIME HR 1/1	MO,	C A 1 Y	RD PE	DEPTH	(m.)	т	t	5.	<i></i>	sig	MA-T	5	ANOM	VOLU/	AE ∑ 7 D	∆ D YN. M x 10 ³	. SC VEI		0 2 ml/	`   ·	PO4-P µg = ot/l	TOTAL-I µg- q1/l	ND2Ν μg - αι/	NO3-1 49 - al/	1 SIO, 1 98-	-5i a1/1	рН С
					-																					1			
		1		' s	то'	000	0	°-0	062	329	0	26	46		001	578	zio	000	14	435									
		04	4	OB	s	000	0	-0	062	329	00	26	46						14	4435									
				S	TD	001	0	-0	067	329	1	26	47		001	568	30	016	14	435									
				OB	s	001	0	-0	067	329	10	26	47					<b>~</b> ~ 1	14	435									
				S	TD	002	0	-0	860	330	1	26	55		001	490	<i>y</i> 0	160	. 14	+4 51									
				06	S	002	0	-0	890	330	10	20	25			220.	, .	0 / 6	1/	4421									
				S	TO	003	0	-0	065	332	2	20	72		001	550	, 0	045	, 1,	4443									
				08	S	003	0	-0	062	332	20	20	07		001	004	, 0	060	14	4445									
				5	10	005	8	-0	080	335	20	20	07		001	0 7 4	, ,	•05	14	444									
				00	5	005	5		0.00	226	20	20	04		001	006	2 0	096	14	4445									
				~ ~ ~		007	2	-0	007	236	30	27	00		001	000	- 0	• / 0	14	4445									
				00	10	010	ົ	-0	074	337	8	27	18		000	896	1 0	119	> ī4	4458									
				08	c .	010	ň	-0	074	337	80	27	18						14	4458									
				00	тп	012	š	-0	035	339	4	27	29		000	789	во	141	1	4483									
				08	s	012	5	-0	035	339	40	27	29			-			14	4483									
				S	то	015	õ	-0	012	339	5	27	29		000	792	7 0	160	) 14	4498									
				08	S	015	0	-0	012	339	50	27	29						14	4498									
				S	TD	020	0	-0	017	340	1	27	34		000	743	50	199	9 14	4505									
				08	s	020	0	-0	017	340	10	27	34						14	4505									
				s	TO	025	0	0	020	342	0	27	47		000	618	50	233	3 14	4532									
				06	s	025	0	0	020	342	00	27	47						14	4532									
				s	то	030	0	-0	014	342	3	27	51		000	576	2 0	263	3 14	4526									
				OB	s	030	0	-0	014	342	30	27	51						14	4526									
				5	TD	040	0	-0	015	342	9	27	56		000	528	7 C	318	3 14	4543									
				06	IS	040	0	-0	015	342	90	27	156						14	4543									

REFER CTRY CODE	ID. HD.	SHIP CODE	LATTU	DE 1/10	LONGITUDE		MARSDE SOUAR	N E 1*	STATION IGM	TIME T2 [HR,1/10	YEAR	CRUISE ND,	ORIGINATO UISE STATI ID, NUM			DEPTH TO BOTTOM	MAX. DEPTH OF S"MPL"S	OBS DIR	WAV ERVA HGt P	E TIDNS	WEA- THER CODE	CLOUD CODES	Ť		NODC STATION HUMBER	
31	3160	WE	7555	ON	071100W	2	60 5	1	10 01	058	1969	WE2	07	3		0410					01	X 7			0073	
				•		·	Ĺ	WAT	ER	WIND		0	AIR TE/	MP. C		NO.	l	·	, ,		1 .	, ·				
							CC	LOR	TRANS DI	R SPEE	MET	ER	DRY	WET	CODE	OBS.	ORSERV	ATIONS								
								DDE	(m)	FOR	ւլ (տե	a) 6	ULS	BULB		Derins										
								)T	S 1	9 509	5   17	9 -0	11	-022	5	13	1									
		MESSENGI TIME HR 1/10	CAST NO.	C ARI TYPE		<b>"</b> )	ינ	:	s •/	sic	MA-T	SPECIFIC	C VOLU	ME ⊉ 07 D	∆ D YN. M X 10 ³	. SOI	DCITY	02 ml/l	<b>PO</b> ور	4-P - o1/1	TOTAL—P µg-ot∕ī	NO2-N #8 - al/l	NO3-N 99 - at/1	-40 IS 10 - 64	S) /I рн	5 C C
																										Т
				ঁ ১1	0000	) '	-007	13	3292	26	548	001	559	1 0	000	14	430 ່		'							
		058	3	065	0000	)	-007	13	3292	0 26	548					14	430									
				ST	D 0010	)	-007	4	3294	26	50	001	542	90	016	14	432									
				OBS	0010	)	-007	4	3294	26	50					14	432									
				ST	D 0020	)	-007	15	3300	26	555	001	496	0 0	031	14	434									
				OBS	0020		-007	15	33000	26	555					14	434									
				ST	0 0030	2	-006	3	3311	26	63	001	415	6 0	045	14	443									
				OBS	0030		-006	53	33110	0 26	63					14	443									
				51	0 0050		-006		3346	20	92	001	144	1 0	011	14	448									
				085			-006		3240	20	09Z	0.01	052	· ·	0.00	14	448									
				085	0075		-006		2350	0 27	201	001	0.52	5 0	V 90	1.4	4,54									
				505	0100		-002	17	3372	2	711	000	957	<u>د</u> م	123	14	475									
				OBS	0100	,	-003	17	3372	$\overline{27}$	711			- <b>v</b>		14	475									
				ST	0 0125		002	6	3385	27	19	000	888	8 0	147	14	510									
				OBS	0125	,	002	6	33850	2 2	719					14	510									
				ST	D 0150	)	005	3	3393	27	124	000	842	90	168	14	527									
				OBS	0150	)	005	3	33930	2 2 Z	124					14	527									
				ST	D 0200	)	007	5	3406	27	733	000	757	70	208	14	547									
				OBS	0200	)	007	15	34060	D 27	733					14	547									
				ST	0 0250	)	007	0	3416	27	41	000	679	1 0	244	14	555									
				OBS	0250	)	007	0	34160	D 27	41					14	555									
				ST	D 0300	)	004	5	3422	27	47	000	618	1 0	277	14	552									
				085	0300	)	004	5	34220	27	47		_		_	14	552									
				ST	D 0400	)	-001	2	3428	27	755	000	538	0 0	334	14	544									
				OBS	0400	)	-001	2	3428	D 27	755					14	544									
REFERE CTRY CODE	NCE IO, NO,	SHIP COOE		IOE 1/10	LONGITUDE	DRUFT IN DCTR	MARSDEN SOUARE	STATI	AY H	IME IR, 1/10	YEAR	CRUISE NO,	DRIGIN S	ATOR'S TATION UMBER		OEPTH TO BOTTOA	MAX. DEPTH OF S'MPL	085 DHP,	WAY SERVA	VE TIONS	WEA THER CODE		S AT		NODC STATION NUMBER	
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318	160	WE	7601	ON	070480W	2	60 60	10 0	1 0	065 1	969	WE2	074	4		0490					02	77			0074	1
							Ŵ	ATER	. W	VIND	BAR	A	IR TEA	AP. °C	T_1	NO.	1	_			1 0 0	1		1		1
							COLO	2 MART RC	DIR,	SPEED	METE	RC	) RY	WET	CODI	OBS.	DBSERV	ATIONS								
							000	1 1m1		FORCE	(mbs	) 8	ULB	BULB	+	Derins	1									
							DT	S	19	505	179	9 -0	11	-022	9	13										
		MESSENGI TIME HR 1/10	CAST NO,	САР	E DEPTH	(m )	1 °C	s	·	SIGM	A - 1	SPECIFIC ANOM	VOLU ALY-XI	ME 0	ΔD YN. M X 10 ³	SO VEL	UNO OCITY	0 2 m1/1	P( 19	D₄-P - 01/I	TOTAL-P vg - ot/l	NO2-N 99 - 01/	NO3-N 49 - 01/1	51 D.4- µg - q	-Si 1/1 pH	\$00
				1																						+
				់នា	ro ooo i on	o '	-0074	329	1	264	7	001	5664	+ 'o	000	14	430				1		1	1		1
		065	5	085	5 000	0	-0074	329	10	264	7					14	430									
				51	rD 001	0	-0081	329	6	265	2	001	525	2 O	015	14	429									
				085	5 0010	D	-0081	329	60	265	2					14	429									
				51	D 002	0	-0081	330	7	266	1	001	4404	÷ 0	030	14	432									
				085	5 0020	5	-0081	330	70	266	1					14	432									
				2	0030	5	-0070	332	1	267	6	001	2900	5 0	044	14	442									
				003		5	-0070	332	70	201	0	001	1070			14	442									
				000	0050	5	-0080	225	0	209	5	001	1073	<i>y</i> 0	068	14	441									
				003		5	-0080	336		209	2	001	<u> </u>		0.07	14	441									
				089	007	5	-0079	336	÷	270	6	0010	1024	2 0	094	14	450									
				51	0100	Ś.	-0053	337	4	271	4	000	9352	, o	119	14	468									
				085	0100		-0053	337	40	271	4				/	14	468									
				51	D 012	5	-0003	338	5	272	0	0001	3738	3 0	141	14	496									
				085	0125	5	-0003	338	50	272	0				- • •	14	496									
				ST	D 0150	)	0040	339	С	272	2	0001	8583	9 0	163	14	521									
				085	0150	)	0040	339	00	272	2					14	521									
				51	D 0200	כ	0014	340	9	273	9	0000	5991	0	202	14	520									
				OBS	5 0200	)	0014	340	90	273	9					14	520									
				\$T	D 0250	)	0038	341	5	274	2	0000	5669	90	236	14	540									
				OBS	0250	)	0038	341	50	274	2					14	540									
				ST	D 0300	)	0029	342	1	274	7	0000	5159	9 0	268	14	545									
				085	0300	)	0029	342	10	274	7					14	545									
				ST	D 0400		-0017	342	7	275	5	0005	542	7 0	326	14	541									
				085	6 0400	) .	-0017	342	70	275	5					14	541									

REFER	ENCE	SHIP	LATITU	DE	LONGITUOE	ALFT OC TR	SDU	ARE	STAT	ION TI GMT)	IME	YEAR	CRINS	ORIGIN	ATOR'S		DEPT 10	H DEP	IX. TH	/ 388C	NAVE RVATIO	NS	WEA- THER	CLC	DES			NOOC	
CODE	NO.	COOF	•	1/10	• 1/10	٩ž	10*	1 1.	MOL	DAY H	IR.1/10		NO.	i	NUMBER		80110	M S'MF	L'S 014	2 3	GT PER	SEA	CODE	TYPE	AMT	{		NUMBER	
31	1160	we	7554	0 N	070240₩	-	260	50	100	110	177	1960	WES	07	5		053	0					01	7	5	-		0075	
21	100	"C	1004		0102408		1200	WA	TER		VIND	T.	1	AIR TE	MP. C	T		<u> </u>		'ר			1			1	1		1
								COLOR	TRANS. Iml	DIR.	SPEED	BAR MET (mb	0- ER 1	DRY IUL8	W E1 BULB	COD AIZ	E DEPTH	S OBSE	PECIAL RVATION	15									
								DT	5	19	505	17	9 -0	11	-022	9	14												
		MESSENG TIME HR 1/10	P CAST	C A 1 Y	RD DEPTH	(m I	т	°C	5	• /	sic	MA-T	SPECIFI	C VOLU	ME ₽	∆ D YN. M X 10 ³	. <u>s</u>	OUNO	02 m	1/1	PO 4	P 1	ΓΟΤΑL⊸Ρ μg = σ!/]	NO ₂ -	-N 11/1	NO3-N yg - at/l	SIO4	Sil pH	200
				5	TD 0000	0	+0	090	329	7	26	53	001	515	1 0	000	1	4423											
		07	7	08.	s 0000	0	-0	090	329	70	26	53					1	4423											
				5	TD 0010	0	-0	089	331	.5	26	67	001	376	9 0	014	1	4428											
				OB.	5 0010	0	-0	089	331	50	26	67		1 2 0	-		14	4428											
					10 0020	0	-0	110	334	5	26	92	001	139	1 0	021	1.	4424											
				UB.	5 0020	0	-0	110	334	150	26	92		100			1	4424											
				5		0	-0	108	334	.9	20	95 05	001	109	1 0	038	1	4421											
				00.		n n	-0	100	226	.70	20	99 07	001	044	7 0	0 4 0	1	4421											
				08	S 0050	n	-0	100	335	70	27	02	001	040	1 0	000	1	4451											
				- UD.	TD 007	5	_0	100	236		27	00	000	980	2 0	0.85	1	4469											
				08	S 007	5	-0	030	336	00	27	0.9	000	/00	2 0	• • • •	î.	4469											
				S	τρ 0100	5	Ő	003	338	3	27	18	000	892	4 0	109	- î	4495											
				OB:	5 0100	5	0	003	338	30	27	18					1.	4495											
				S	TD 0125	5	Ō	043	338	17	27	19	000	882	9 0	131	14	4518											
				08	S 0125	5	0	043	338	70	27	19					14	4518											
				s	TD 0150	0	0	050	339	4	27	25	000	833	6 0	152	14	4526											
				08	S 0150	0	0	050	339	40	27	25					14	4526											
				5	TD 0200	С	0	130	341	5	27	36	000	726	0 0	191	14	4573											
				08	S 0200	0	0	130	341	50	27	36					14	4573											
				S	TD 0250	0	00	052	342	0	27	45	000	637	5 0	225	14	4547											
				08	S 0250	0	0	052	342	00	27	45					14	4547											
				s	TD 0300	0	0	054	342	4	27	48	000	608	6 0	256	14	4557											
				08	S 0300	0	0	054	342	40	27	48					14	4557											
				5	TD 040	0	0	006	343	0	27	56	000	533	4 0	314	14	4552											
				08	S 040	0	0	006	343	00	27	56					14	4552											
				5	10 050	υ	-0	007	343	3	27	59	000	501	8 0	365	14	4563											
				08	5 050	U	-0	007	343	30	27	59					14	4563											

																		1	T				T				
REFER	IENCE	SHIP	LATITU	LATITUOE LO			MARS SOU	DEN ARE	STAT	GMT)	ME	YEAR	CRUISE	RIGIN	ATOR'S TATION	_	DEPTN TO	DEPTH	ORS	WA\ SERVA	TIONS	WEA-	CLOUD			NODC	
CODE	NO.	COOF	•	1/10	•	1/10 ² Z	10*	1.	MOC	AY H	R.1/10		NO.	N	UMBER		BOILOW	S'MPL'S	DIR	HGT	PER SE	A LOUE	TYPE AM	1		NUMBER	
21	0140	we	7546	0N	0704	120W	260	50	100	01 0	98	1969	WE2	070	5		0450					70	7 7			0076	
21	6100		1,540		010	12011	1200	WAT	ER	- V	/IND			IR TEA	AP. °C		NO.			ĺ							
							1	COLOR	TRANS,	DIR	SPEED	MET	ER (	DRY	WET	CODE	OBS.	OBSERV	ATIONS								
								CODE	lm)	0	FORCE	(mb	i) R	ULB	BULB			'									
								DT	S	22	S11	16	9 -0	19	-028	9	13										
		MESSENG	CAST	CAR	R D PE		т	°c	s	٠/	sigi	MA-T	SPECIFIC	VOLU	ME 8 07 0	∧ D YN, M X 10 ³	. SO VEL	OCITY	0 2 m  /	P( #9	04-P - at/l	TOTAL-P μg - ot/l	NO2~N µg - at/l	NO3-N 49 - 01/i	SIO4-1 Pg - 01	51 /  pH	500
		<u>HK 1710</u>					+				+									1							
			1	. د	TD	0000	-0	0.78	330	00	26	55	001	496	1 '0	000	14	429		1	1		I	۲ F	, 		'
		0.0	•	08	<	0000	-0	078	330	000	26	55					14	429									
		09	5	S	τΩ	0010	- 0	085	330	)5	26	59	001	454	90	015	14	428									
				OB	s	0010	-0	085	330	050	26	59					14	428									
				S	TD	0020	-0	080	333	30	26	79	001	264	50	028	14	436									
				OB:	s	0020	-0	080	333	300	26	79					14	436									
				S	тD	0030	-0	096	335	52	26	97	001	090	1 0	040	14	433									
				OB:	S	0030	-0	096	335	520	26	97					14	433									
				S	тD	0050	-0	100	336	53	27	06	001	003	50	061	14	436									
				OB:	S	0050	-0	100	330	530	27	06					14	436									
				S	тD	0075	-0	070	33	74	27	14	000	929	2 0	085	14	456									
				0B	S	0075	-0	070	33	740	27	14				100	14	426									
				S	TD	0100	0	002	331	86	27	21	000	869	1 0	108	14	495									
				OB	S	0100	0	002	330	860	21	21	000			1 20	14	612									
				S	TD	0125	0	032	33	92	21	24	000	828	8 0	129	1	613									
				08	S	0125	0	032	33	920	21	24	000	747	2 0	140	14	525									
				S	10	0150	0	045	24		21	34	000	141	2 0	14)	14	525									
				UB.	5	0150	0	045	34	10	27	38	000	703	9 0	185	14	530									
						0200	0	036	34	100	27	38	000		<i>,</i>	- 0 /	14	530									
				UB C	5	0200	0	020	34	14	27	45	000	637	1 0	219	14	509									
				2		0250	-0	020	34	140	27	45	000			- • /	14	509									
				00	5	02.50	_0	027	34	22	27	51	000	576	9 0	249	14	519									
				08	s l	0300	-0	027	34	220	27	51					14	+519									
				<u>ر</u>	TD	0400	- ŭ	017	34	31	27	58	000	512	4 0	303	14 14	+542									
				OB	s	0400	-0	017	34	310	27	58					14	\$542									
					-																						

REFE C1RY CODE	IO.	SHIP CODE	LATITUC	DE	LONGITUOE	DRIFT	MARS SOU	IDEN ARE	STATIO (G	N TIN MT)	E	YEAR			ATOR'S	N P	DEPTH TO BOTTOM	MAX. DEPTH OF	OBS	WAVE ERVATIO	ons	WEA- THER CODE	CLOUC			NOOC STATION NUMBER	
			75.00		0.7.1.0.7.0		2 4 0		10 04	T PIK.	1/101			0.7	-			3 MPL	5 012	HUTPER	211					0077	
1 31	8160	WEI	/5405	DN I	071070W		260	151	1010.		2 1	969	WE 2	07	1		0480					70	1 1 1			0077	
								0000	E.N.		SPEED	BARC	·	AIR TE/	MP. C	vis.	NO.	SPE	CIAL								
								CODE	(m)	JIR,	OR	Imba	) e	ULB	BULS	000	DEPTHS	OBSERV	ATIONS								
								DT	Si	22 :	511	16	<del>9   0</del>	19	-02	3 9	13										
		MESSENG										<u> </u>				5 ^ 0	1 10	L									
		TIME	V NO.	TYPE	0 EPT14 6	m }	T	°C	s •,	·	SIGM	A-T	ANOM	ALY-XI	<i>7</i>	DYN. N	VEL	OCITY	0 2 mI/l	PO4-	-*	NG + st/l	NO ₂ -N	NO ₃ -N	104-0	SI pH	ć
		HR 1/10													_	X 10 ²	-										-
												_ [			_									ļ			11
				ST	D 0000	) )	-0	096	3284	+	264	+2	001	612	9 (	0000	) 14	418									
		10.	2	OBS	0000		-0	096	3284	+0	264	+2					14	418									
				51	0010	5	-0	100	3290	,	264	+/	001	202	T (	1016	14	419									
				005	0010	5	-0	100	2220	0	204	• 1	001	120		0.20	14	417									
				OBC	0020	5	_0	085	2320	, 10	261	1	001	223	4 (	1030	14	432									
				51	n 0020	í	-0	129	3350	) )	269	1	001	095	0 0	043	14	417									
				DBS	0030	í	-0	129	3350	, in	269	7	001	• • •	· ·		14	417									
				ST	0050	Ĵ	-0	126	335	7	270	2	001	041	1 (	0064	14	423									
				085	0050	)	-0	126	335	70	270	2	•••		•		14	423									
				ST	D 0075	5	-0	112	3365	5	270	8	000	982	9 (	089	14	435									
				OBS	0075	5	-0	112	3365	50	270	8					14	435									
				ST	D 0100	)	-0	121	3374	÷	271	.6	000	909	7 (	0113	14	436									
				08S	0100	)	-0	121	3374	÷0	271	.6					14	436									
				ST	D 0125	5	-0	018	3388	3	272	3	000	843	6 (	0135	14	490									
				OBS	0125	5	-0	018	3388	30	272	23					14	490									
				ST	D 0150	)	0	064	3400	)	272	9	000	796	3 (	)155	14	533									
				OBS	0150	2	0	064	3400	0	272	.9					14	533									
				ST	D 0200	2	0	109	3412	2	273	5	000	734	3 (	)194	14	563									
				OBS	0200	)	0	109	3412	20	273	5			-		14	563									
				ST	0 0250	J	0	144	3430	)	274	17	000	623	8 (	)228	14	590									
				085	0250	, ,	0	144	3430	0	274	+ /	000	6 0 0		1750	14	590									
				51	0300	) n	0	080	3430	,	210	2	000	280	0 0	1208	14	569									
				005	D 0600	) N	0	025	2420	10	217	57	000	522	2 1	1313	14	561									
				084	0400	ń	0	025	3433	, 10	275	57	000	262	, ,		14	561									
				vu 3	0400	-	0	~ ~ ~	545.	~~		· •					1.4										

REFE	ID.	SHIP	LATITU	DE	LONGITUD	DRIFT		SDEN JARE	STAT	GMT	IM E	YEAR			ATOR'S		OEPT TO	нс	MAX. DEPTH OF	085	WAVE ERVATIO	NS .	WEA- THER	CLOUD		5	NODC TATION	
CODE	NO.		· ·	1/10		10	10'	1.	MO	DAYH	R.1/10		NO.	1	IU MBER		BOLLC	,w 2,	MPL'S	DII.	HGEPER	SEA	- CODE	TYPE AN	1	N	UMBER	
31	8160	WE	7532	ON	071360	w	260	51	10	01   1	129 1	969	WE2	07	8		052	0					02	7 7	1		0078	
								WA	TER	V	VIND	BARO	1	AIR TE	V.P. °C	T	NO.	-1'										
								COLOR	TRANS.	OIR.	SPEED DR FDRCE	METE	R (	DRY	W ET BULB	CD0	E DEPTH	-15 01	SPEC BSERVA	TIONS								
								DT	S	22	512	159	7 - 0	08	-019	9	14											
		MESSENGR TIME HR 1/10	CAST NO.	C A R TYP	ID OEPT	H (m)		ס' ד	5	•4.	SIGM	A - T	SPECIFIC	ALY-XI	ME 2	∆ 0 IYN. M X 10 ³	. s	ELOCI	D	02 ml/i	PO 4-	• P • //	TOTAL-P. vg - ot/l	NO2~N yg - ot/l	NO ₃ -N yg - 01/1	St O ₄ —Si µg - at/l	рН	500
			1									1					1				1							Т
				51	<b>D</b> 00	00	- C	090	32	75	263	5	001	683	8 Ç	000	(-1)	442	20		•							
		129	<b>,</b>	083	5 00	00	- C	090	32	750	263	5					1	442	20									
				51	D 00	10	- C	093	321	85	264	3	001	605	6 0	016	1	442	22									
				085	5 00	10	-0	093	321	850	264	3					1	442	22									
				51	D 00	20	-0	118	33	37	268	6	001	198	6 (	030	1	441	19									
				085	5 00	20	-0	118	33	370	268	6		12/	e 0	~ ~ ~	1	441	19									
				51		30		125	33	42	269	2	001	154	5 U	042	1	441	10									
				083		50	-0	120	221	470	209	2	0.01	061	2 0	041	1	441	10									
				000		50	-0	144	22	550	270	1	001	051	2 0	064	1	441	14									
				003		50	-0	144	22	250	270	-				000		441	14 56									
				0.90		75	-0	1132	22	630	270	7	000	991	8 (	1090	1	442	20									
				003	rn 01	00	-0	132	23	70	270	2	000	025	8 0	114	1	442	20									
				080	: 01	00	-0	1125	33	700	271	2	000	,,,	0 0	+ 1 -	, <u>1</u>	442	20									
				51	rn 01	25	-0	0.60	33	R 4	272	2	000	855	1 0	136	. ī	447	70									
				OB	5 01	25	-0	0.60	33	840	272	2		•			ī	447	70									
				SI	to ci	50	Ċ	036	33	95	272	6	000	818	0 0	157	· ī	452	20									
				08.	5 01	50	C	036	33	950	272	6					1	452	20									
				SI	rD 02	00	C	110	34	14	273	7	000	719	8 C	195	1	456	54									
				085	5 02	00	¢	110	34	140	273	7					1	456	54									
				51	D 02	50	C	146	34	25	274	3	000	663	1 0	230	1	459	90									
				085	5 02	50	C	146	34	250	274	3					1	459	₹Q									
				S	TD 03	00	Ç	170	34	37	275	1	000	592	2 0	261	1	461	10									
				085	5 03	00	C	0170	34	370	275	1					1	461	10									
				ST	TD 04	00	C	230	34	52	275	8	000	533	4 C	318	1	465	55									
				085	5 04	00	C	230	34	520	275	8					1	465	55									
				51	TD 05	00	C	0140	34	52	276	5	000	462	0 0	367	1	463	32									
				OBS	5 05	00	0	140	34	520	276	5					1	463	32									

REFER CTRY CODE	ID. NO.	SHIP COOE	LATITU	OE	LONGITUOE	DRIFT IN DC TR	MAR SQU	ARE	STAT	ION T GMTI	ME R 1/10	YEAR	CRUISI NO.	ORIGIN	ATOR STATIC	"S DN IER		DEPTH TO BOTTOM	MAX. DEPTH OF	08	WAVE SERVATION	S TI	HER DOE	CLOUD			NODC STATION NUMBER	ĺ
21	1.0	WE	76.74	0.11	0705200	+	200	1.0	100			10/0		07	0		-+;	2640	1 10.12	UIK	HGI H			7 7			0070	
210	5160	WC I	1724	UNI	0105200	I	260	120	1010		44	1969	WC2		9		4	1540		L		1.0	JZ	1 1 1 1	1	ł	0079	I.
								0108	1	l '	SPEED	BARC	· -		mr. c	- v	15,	NO. OBS.	SPEC	IAL								
								CODE	(m)	Ofr.	FORCE	(mba	ĵ   I	ULB	BUL		100	DEPTHS	OBSERV	NUNS								
								DT	5	22	506	15	2 - 0	11	-01	7 9	,	14										
		MESSENGR TIME HR 1/10	CAST NO.	C AI TY	RÓ DEPTH	(m)	T	č	5	•4.	SIGA	AA-T	SPECIFI	C VOLU	ME 07	₹ △ DYN. X 10	м.	SOU VELO	INO ICITY	0 2 ml/l	PO 4-P yg - a1/b	TOTA 29 -	L P a1/1	NO2-N µg - 01/J	NO3-N 91- ot/l	SI O ₄ =5 yg - ot/	рн	200
																												Т
				's'	TD 0000	0	-0	078	327	7	26	36 `	001	672	3 ΄	000	0	144	26		1	'						
		144		0B	5 0000	0	-0	078	327	70	26:	36						144	+26									
				S	TD 0010	0	-0	085	327	8	26:	37	001	661	8	001	7	144	+24									
				0B	5 0010	0	-0	285	327	80	26	37						144	+24									
				5	TD 0020	0	-0	126	333	12	260	32	001	234	6	003	1	144	+14									
				085	5 0020		-0	126	333	120	268	32						144	+14									
				5	10 0030	0	-0	130	334	15	269	93	001	133	1	004	3	144	+16									
				063	5 0030	0	-0	130	334	50	269	73 29	0.01	070	1	006	6	144	+10									
				08	0050	5	-0	121	325	2	20	98 28	001	079	1	006	0	144	+22									
				00.		5	-0	127	222	20	20	90 )/	0.01	0.2.1		000	•	144	34									
				08	s 007.	5	-0	112	320	00	210	24	001	021	1	009	1	144	. 24									
					TD 010	ń	-0	112	236		270	10	000	978	5	011	6	144	22									
				OB.	5 010	ñ	-0	146	336	40	270		000	,,0		· - 1	°.	144	23									
				S	TD 012	5	-0	105	337	78	27	19	000	883	3	014	0	144	48									
				OB	5 012	5	-0	105	337	80	27	19		005	-	• • •	Ť	144	48									
				S	TD 015	0	-0	026	338	16	27	22	000	854	4	016	1	144	•90									
				08	S 015	0	-0	026	338	60	272	22					Ť	144	+90									
				5	TO 020	0	0	067	340	5	27	32	000	760	3	020	2	145	43									
				OB	S 020	0	0	067	340	50	27	32						145	43									
				S	TD 025	0	0	191	342	9	274	+3	000	667	1	023	7	146	10									
				08	S 025	0	0	191	342	90	274	+3						146	510									
				S	TD 030	0	0	208	343	19	275	50	000	607	6	026	9	146	27									
				08	5 030	0	0	208	343	90	27	50						146	27									
				5	10 040	U	0	232	345	0	27	57	000	550	2	032	7	146	56									
				OB	5 040	0	0	232	345	00	27	57						146	56									
					050	U O	0	191	345	1	276	51	000	511	7	038	0	146	55									
				0B	5 050	υ	0	191	345	10	276	51						146	55									

																						-	1			
REFERE	NCE 10.	SHIP COOE	LATITU	DE		MARSO SQUA	RE	STAT	GMT	ME	YEAR		ORIGEN	STATIC	'S ON ER	OEPTH TO BOTTON	MAX. OEPTH OF	OB5	WAV ERVA	TIONS	WEA- THER CODE	CLOUD CODES	Ŧ		NODC STATION NUMBER	
	-			1/10		-10				K.17 10					-			0.04								Ļ
318	160	WE	7533	ONIC	)70390W	260 <u> </u>	50 1	00	11	163 1	969	WE:	2 08	0		0530	ļ.	L			02	1 9 8	1	1	0080	J.
						-	WAT	ER	Y	VINO	BAR	ᆞᄂ	AIR TE	MP. 1	; 	NO.	SPE									
						C	COLOR	TRANS.	DIR.	OR	METI	R	DRY BUILE	811	T COD	DEPTHS	OBSERV	ATIONS								
						F		-	2.2	FORCE	1 2 5	-	<u>,,,,</u>		7 7	1.4	ł									
							01	5	22	1306	15	<u> </u>		Ľ,	· / /	14	<u> </u>		-							
		MESSENGR TIME 0 HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	т	٣	s	•/	SIGN	A-T	ANO	IC VOLL	JME 107	₹ △ 0 01N. A X 10 ³	SO VEL	OCITY	0 2 m1/l	PC V S	• a1/1	TOTAL-P µg = ot/l	NO2-N vg + at/l	NO3-N yg•at/l	SIO₄— µg - a1	Si pH	500
																								1		
				ST	0000	-00	86	328	12	264	0	00	1631	4	0000	14	423		'							
		163		085	0000	-00	86	328	320	264	•0					14	423									
				ST	0010	-00	90	329	95	265	51	00	1529	9	0016	14	424									
				OBS	0010	-00	90	329	950	265	51					14	424									
				ST	0020	-00	80	332	25	267	15	00	1302	8	0030	14	435									
				OBS	0020	-00	80	332	250	267	15					14	435									
				ST	0030	-00	92	334	•0	268	38	00	1183	3	0042	14	433									
				OBS	0030	-00	92	334	00	268	38				_	14	433									
				STO	0050	-01	07	334	+8	269	95	00	1116	0	0065	14	431									
				OBS	0050	-01	07	334	+80	269	95					14	431									
				ST	0075	-01	10	335	58	270	3	00	1037	1	0092	14	435									
				085	0075	-01	10	335	680	270	)3			-		14	435									
				ST	D 0100	-00	46	33	72	273	12	00	1953	5	011	14	4/1									
				085	0100	-00	46	33	720	271	12					14	471									
				ST	D 0125	00	15	338	36	272	20	00	0875	4	0140	) 14	505									
				085	0125	00	115	338	360	272	20					14	505									
				ST	D 0150	00	90	339	95	272	23	00	0850	2	0162	2 14	544									
				085	0150	00	190	339	950	272	23					14	544									
				STI	D 0200	01	53	34	L 4	273	34	00	0749	19	0202	2 14	1583									
				OBS	0200	01	53	34.	140	273	34	~ ~				14	1583									
				ST	0 0250	01	55	34.	25	274	43	00	0669	1	023	14	1594									
				OBS	0250	01	.55	342	250	274	43	~ ~		-	0744	14	1094									
				ST	D 0300	01	82	343	35	274	49	00	0616	» (	0269	14	612									
				OBS	0300	01	82	34	350	274	49	00	0647		037-	14	1012									
				ST	0 0400	02	20	341	+9	27	- 7	00	0241	2	0.52	14	2.51									
				OBS	0400	02	20	344	+90	27	21	~~	04.05		0384	14	442									
				ST	0 0500	01	.63	34	- 0 -	270	52	00	0495	> 1	0,000	14	4042									
				OBS	0500	01	63	34	500	270	52					14	+044									

REFER	ENCE	SHIP		105		MAR	SDEN ARE	STAT	ION TI	ME	YEAR		ORIGI	NATO	1*5	-	DEPTH	MAX. DEPTH	085		NS	WEA-	CLO	00			NODC	
CODE	NO.	COOE		1/10	1/10	10*	1 11	40 T	TAX H	8.1/10	TEAR	CRU	O.	STATI	ON BER		BOTTOM	OF	- DI	जित्मी कहता		CODE	110		ł	1	NUMBER	
-+		115	7543	0.10	0700101	240	50	10 0		7.6	10/0	1.15				-+	0530	1 10010		107 764	36.4	0.2	4	0			00.01	
310	8160	WE	/541	UNI	070040w	260	1201	10 0	11	15	1999	WE	2 08	1			0550	<u> </u>				02	0	0			0081	
							WAT	TER	V V	VIND	BAR	o∙  -	AIRTE	MP, 1	с,	vis.	NO.	SPE	CIAL									
							COLOR	TRANS. (m)	DIR.	08	(mb	ER	BULB	80	ET C	ODE	DEPTHS	OBSERV	ATIONS									
							DT	s	22	506	15	1	011	-0	17	7	14											
		MESSENG	CAST	CAS	DEPTH Imi	1	τ.	s	•4.	SIGA	1-AN	SPEC	IFIC VOL	JME		0.0	sou	UNO		PO4-	P	TOTAL-P	N03-	-N	N03-N	SI 04-	51 011	ŝ
		HR 1/1	1	516	't								UMALI-A	10.	X 1	03	VELO	ocim		yg - al	1/1	/o-o1 ور	99-0 - 94	1/1	µg - a1/l	µg - ot		c
																									1			
			_	S	0000	-0	089	32	72	26	33	00	01707	1	000	00	14	420										
		17	5	083	5 0000	-0	089	32	120	26	33			-			14	420										
				5	10 0010	~0	098	32	15	26	35	00	1680	17	00	17	14	418										
				OB:	5 0010	-0	098	321	150	26	35	~		-	007		14	418										
				 	0020	-0	080	230	77	200	60 40	00	11440		003	22	14	432										
				000	5 0020	-0	114	233	26	200	80	0.0	11214	5	00/		14	422										
				08	5 0030	-0	114	333	350	26	84 84	00	1214		00-	-0	14	422										
				ç.	TD 0050	-0	133	334	46	26	94	0.0	01123	1	00/	69	14	418										
				DB:	5 0050	-0	133	334	+60	26	94	~					14	418										
				S	TD 0075	-0	122	336	50	27	05	00	01017	9	00	96	14	429										
				OB	5 0075	-0	122	336	500	27	05						14	429										
				S	TD 0100	-0	050	33	75	27	14	00	0928	9	012	20	14	469										
				08	5 0100	-0	050	331	750	27	14						14	469										
				S	TD 0125	0	013	338	35	27	19	00	00881	9	014	43	14	504										
				OB:	5 0125	0	013	338	350	27	19						14	504										
				S	TD 0150	0	080	339	98	27	26	00	00821	2	016	64	14	540										
				08:	5 0150	0	080	339	980	27	26						14	540										
				S	TD 0200	0	130	341	13	27	35	00	00741	1	020	03	14	573										
				083	5 0200	0	130	341	130	27	35						14	573										
				S	TD 0250	0	170	342	27	27	43	00	00665	9	023	38	14	601										
				08	s 0250	0	170	342	270	27	43						14	601										
				S	10 0300	0	183	343	34	27	48	00	0625	0	027	(1	14	616										
				OB	5 0300	0	183	343	540	27	48	~			0.2.		14	616										
					10 0400	0	184	344	+9	27	60	00	00516	00	054	۲۵	140	637										
				OB	5 0400	0	184	344	+90	21	6U	~	0474	7	0.2	<b>,</b> ,	140	277 277										
				00	0500	0	130	344	+ 7	27	04 4 /	00	10476		03	11	14	621										
				00	5 0500	0	120	244	+70	21	04						140	021										

					_																			
REFERENCE	SHIP	LATITUOE	LO	NGITUDE	A MAR	SOEN	STATION T	IME	YEAR		RIGINA			OEPTH TO	MAX. DEPTH	OBSE	WAVE RVATIOI	NS	WEA- THER	CLOUC			NOOC	
CODE NO.	CODE	· 1	/10	1/10	2 10*	1.	MO DAY H	R.1/10		NO.	N	IMBER		BOTTOM	S'MPL'S	DIR.	H GT PER	5EA	CODE	TYPI AN	T		NUMBER	
31816	OWE	75480	N 06	9430W	259	59	10 01	187 1	969	WE2	082			0450					02	68			0082	
						WA	TER	NINO	RARC		IR TEM	P. °C	Ľ,	NO.		···· )			1					
						COLOR	TRANS OR	SPEED	METE	R C	RY	WET	CODS	OBS.	OBSERV	A TION S								
						CODE	im)	FORCE	(mòs	1 8	JLB	BULB		OLTIN'S										
				,		01	5 20	1508	150	<u>, Fo</u>	17 -	025	7	13										
	MESSENG	CAST	CARD	OFPIH (m		r	5.1	10.04	A	SPECIFIC	VOLUM	1 2	ΔD	sou	INO	0	PO -	P 1	TOTAL	NO3-N	NO1-N	SIGAN	5	5
	HR 1/10	NO.	TYPE	Det tit bi		÷		31074	<u> </u>	ANOM	ALY-II0	X	103	VELO	CITY	02 01/1	40 - 01	/1	µg ∼ at∕l	µg - a1/I	µg = ai/l	40 - 01,	/I PH	0
																	1	+						+
	'		STD	0000	'-0	075	3290	264	7 '	001	5737	00	000	14	429		I		1		1	ł	1	1
	18	7 (	OBS	0000	-0	075	32900	264	7					14	429									
			STD	0010	-0	082	3295	265	1	001	5325	00	16	14	428									
		(	085	0010	- 0	082	32950	265	1					144	428									
			STD	0020	-0	067	3320	267	0	001	3458	00	30	144	440									
		(	OBS	0020	-0	067	33200	267	0					14	440									
			STD	0030	-0	066	3350	269	5	001	1161	00	142	144	447									
		(	DBS	0030	-0	066	33500	269	5					144	447									
		,	STU	0050	-0	052	3361	270	3	001	367	00	64	144	458									
		,	005	0050	-0	052	33010	270	2	000	2006	0.0		144	478									
			SIU	0075	-0	021	33700	270	7	000	9000	00	099	144	4/0									
			510	0100	-0	048	3375	270	9	000		01	13	14	470									
			DBS	0100	-0	040	33750	271	4	000	1271	0.		14	470									
			STD	0125	0	040	3392	272	4	000	8432	01	35	14	517									
		(	DBS	0125	Ő	040	33920	272	4					14	517									
			STD	0150	0	085	3399	272	7	000	8167	01	56	14	542									
		(	DBS	0150	0	085	33990	272	7					14	542									
			STD	0200	0	142	3419	273	9	000	7042	01	94	14	579									
		(	DBS	0200	0	142	34190	273	9					14	579									
			STD	0250	0	169	3428	274	4	000	5576	02	28	140	500									
		(	DBS	0250	0	169	34280	274	4					140	600									
			STD	0300	0	200	3440	275	1	000	5935	04	:59	140	624									
		(	OBS	0300	0	200	34400	275	1					14	624									
			STD	0400	0	180	3449	276	0	000	5135	03	314	140	633									
		(	DBS	0400	0	180	34490	276	0					140	633									

REFERE CIRY CODE	NCE ID. NO.	SHIP CODE	LATITU	OE 1/10	LONGITUOE	D&JFT INDCTR	MARS SQUA	DEN ARE	STATION (GMT	TIME J HR.1/10	YEAR	CRUI	ORIGI SE	NATOF STATI	ITS DN BER	OEPT TO BOTTO	TH DM	MAX. DEPTH OF S'MPL'S	OBS DIR.	WAY ERVA	VE TIONS PER S	EA.	WEA- 1HER CODE	CLOU COD	ES MT			NOOC STATION NUMBER	
318	160	WE	7550	ON	068500W	-	259	58	10 01	205	1969	WE	2 08	83		031	0						02	6	8			0083	
				1			ſ	WA	TER	WIND			AIRT	EMP. 1	c	NO	TT.			1 1		,							
								COLOR	IRANS. DIR	SPEE	ME	IER	ORY	w		OBS	i. C	SPEC OBSERV/	ATIONS										
							-	CODE	(m)	FOR	t (mt	(11)	8018	80		1 2 2			-										
								DI	5 20	1508	1 15	0 F	015	104	25 11	12													
		MESSENGE TIME H.R. 1/10	CAST NO.	CARC	DEPTH	(m i	т	°C	s •4.	\$10	MA-1	SPEC	FIC VOL	UME X107	∑ ∆ 0 DYN. 7 X 10 ³	o vi. ∨	SOUN	ND City	02 ml/1	Pi V 9	D 4 - P 1 - 01/1	10 19	TAL-P - 01/I	NÖ2- vg - at	N Z	NO3-N 29 - 61/l	51 O 4- yg - ol	Si pH	5 C C
												1																	
		•		's⊺	D' 000	0	· - 00	)55	3285	28	642	00	161	91	0000	5 ' <b>1</b>	44	38											
		205	5	OBS	000	0	-00	)55	32850	26	642					1	44	38											
				ST	D 001	0	-00	058	3282	26	539	00	1640	04	0010	5 1	44	38											
				OBS	001	0	-00	058	32820	) 26	39					, 1	.44	38											
				ST	D 002	0	-00	58	3298	20	52	00	151	15	0034	2 1	.44	41											
				OBS	002	0	-00	)58	32980	20	52	~ ~			001		.44	41											
				ST	D 003	0	-00	036	3336	26	82	00	123	50	0044	5 1	.44	59											
				OBS	003	0	-00	036	33360	26	82				00 T	. 1	.44	59											
				ST	D 005	0	-00	29	3347	20	91	00	115.	33	0070	) I	.44	101											
				OBS	005	U	-00	129	33470	26	91	~ ~	107	2 5	000	. 1	44	01											
				51	0 007	5	-00	918	3358	20	999	00	107.	30	0090	י ב י	44	77											
				065		2	-00	10	3360	20	799 709	0.0	000	2.8	012	a 1	44	87											
				0.000	010	0	-00	10	33600	, ²	700	00	0,,,,	20	0-2.	- <u>1</u>	44	87											
				003	D 010	5	-00	122	2380	2	715	0.0	0921	47	014	7 1	45	07											
				OBS	012	5	00	122	33800	2	715	00	0,2	- I	014	์ เ	45	07											
				ST	D 015	Ő.	00	160	3390	2-	121	0.0	086	98	0170	5 i	45	30											
				085	015	0	00	0.60	33900	2	721		000			1	45	30											
				ST	D 020	0	01	134	3410	2	32	00	076	66	021	1 <b>i</b>	45	74											
				OBS	020	0	01	134	34100	2	132	• -				1	45	74											
				ST	D 025	0	01	168	3422	2	39	00	070	21	024	7 1	45	99											
				OBS	025	0	0 ]	168	34220	2	739	-				1	45	99											
				ST	D 030	0	01	180	3426	2	42	00	068	30	0282	2 1	46	13											
				OBS	030	0	0	180	34260	2	742					1	46	13											

REFERENCE	SHIP	LATITU	D٤		M ARS SOU	SDEN ARE	STATIC (G	ON TI	WE	YEAR	0	OR	IGIN A ST	TOR'S ATION		DEPTH TO	MAX DEPTH OF	O8	WA SERV	. VE A TION S	WE TH	A- ER	CLOUD				
CODE NO.		•	1/10	· 1/10 - 4	10.	1.	MOD	AY H	R.1/10		$\rightarrow$	NO,	NI.	JAARER		601107	S'MPL"	S DIR	HG	PER SI	EA CO		TYPE AM			NUMBER	4
318160	WE	7542	5N	069085W	259	59	10 0	2 0	68	196	9   1	WE 2	084			0450					7	2	7 8	l I		0084	1
						WAT	ER	V.	/IN D	8A	RO-	AIS	TEM	P. °C	MIE	NO.	SPE	CIAL	]								
						COLOR	TRANS.	DIR	SPEED	) ME	TER	DR	× [	WET	cool	DEPTH	OBSER	A TION S									
						000	C	12	FORC	E 0.	34	-01	1	0.21	-	12	+										
						01	3	12	510	1	24	Lot	<u>+</u> [	021	l°.	1.5	I		<u> </u>		r					-1.	<b>_</b>
	MESSENGR TIME HR 1/10	CAST NO.	C AR I YP	D DEPTH (m)	Ţ	°C	5.	<i>'</i>	\$IG	MA-T	s	ANOMAL	/OLUM .YX10	E D	△ D (N. M (10 ³	SC VEL	LOCITY	0 2 ml/	۱ ۱ ۲	PO 4— P g = 01/1	TOTAL Jg = of	- P /1	NO2-N 28 - 01/1	NO3-N 49 - 01/1	51 O 4- 49 - 9	-Sι  /  ρΗ	500
									T																		
		· ·	51	0000 d	-0	060	328	0	26	38	<u></u>	0016	555	0	000	14	+435 '		,								
	068	3	083	0000	-0	060	328	00	26	38						14	+435										
			51	D 0010	-0	072	329	0	26	46		0015	742	0	016	14	432										
			085	0010	-0	072	329	00	26	46				~		14	432										
			51	0 0020	-0	083	331	8	26	69		0013	>>4	0	031	14	433										
			085	0020	-0	082	333	80	20	85		0012	061	0	ስልል	14	433										
			000	0030	-0	071	232	80	20	85	ľ	0015	001	0	~	14	443										
			063	0030	-0	071	335	50	20	00		0010	718	0	066	14	444										
				0050	-0	080	335	50	26	99		0010		· ·	000	14	444										
			51	D 0075	-0	065	336	0	27	03		0010	382	0	093	14	456										
			08.9	0075	-0	065	336	00	27	03						14	456										
			51	D 0100	0	020	336	5	27	03		0010	382	0	119	14	+500										
			OBS	5 0100	0	020	336	50	27	03						14	¥500										
			SI	D 0125	-0	005	338	0	27	16		0009	108	0	143	14	495										
			083	5 0125	-0	005	338	00	27	16						14	495										
			S1	D 0150	0	018	338	5	27	19		8000	842	0	166	14	+510										
			083	0150	0	018	338	50	27	19						14	\$510										
			51	D 0200	0	078	340	8	21	34		000/	444	0	206	14	+249										
			083	0200	0	078	340	80	27	34					· · ·	14	+549										
			51	0250	0	175	342	8	21	44		0006	022	U	c 4 I	14	+603										
			005	0250	0	201	242	7	27	44		0006	169	0	273	14	4624										
			080	: 0300	0	201	343	20	27	47		0000	.0,	0	- , ,	14	+624										
			51	0400	ő	198	344	9	27	59		0005	284	0	331	14	+641										
			OBS	5 0400	ō	198	344	90	27	59						14	4641										

												_			-	-			-			· · · ·		r			
REFERENCE	SHIP	LATITUDE LONGITUDE			MARS	DEN	STAT	ION TI GMTI	WE	YEAR	C 811	ORIG	NATO	875		DEPTH TO	MAX. DEPTH	OBS	W A SERV	VE A TION S	WE THE	A- R	CLOUD			NODC	
CODE NO.	CODE	•	1/10	· '1/10 2	10.	1 10	MOLI	AYH	8 1/10		NO	). ).	NUM	BER		BOTTOM	S'MPL'S	DIR	HG	PER SI	EA COL	DE	TYPE AM	1		NUMBER	
219160	WE I	7522	9.0	069285₩	259	59	10 0	$\frac{1}{2}$	183	1969	WE	2 0	85		1	0470	1	<u> </u>	1		7	2	7 8	1		0085	5
210100	N MC I	1752		00120141	1	1	TFR		/1N0		1	AIR I	EMP.	r I	-4		l	L	1						,		•
						COL 08			SPEED	BAR MET		ORY	Tw	FT	vis.	OBS.	SPEC										
						CODE	(m)	DIR.	OR FORCI	e (mb	6	BULB	BU	LB	001	DEPTHS	OBJERT										
						0 T	S	12	\$18	13	4	011	-0	21 8	3	13											
	MESSENGR	CAST	CAR			*	Ϊ.	•/			SPEC	IFIC VO	UME	₹ ∆ OTN	. D.	sou	UND	0.2 ml/l		PO4-P	TOTAL-		NO2-N	NO3-N	51 04-	-Si pH	S
	HR 1/10	ND.	TYPE	Derin on					3,01		ANI	DMALY-	X10/	x 1	03	. AEFO	DCITY			g - 01/l	y <b>g</b> = ot.	^	ug - al/1	yg - at/l	yg - 0	11	c
					T								1														
	'	•	' st	0000 D	·~0	090	329	90	26	47	00	156	88	000	00	14	422										
	083	3	OBS	0000	-0	090	329	900	26	47		_				14	422										
			ST	D 0010	-0	093	329	<del>9</del> 3	26	50	00	154	42	00	16	14	423										
			OBS	0010	-0	093	329	930	26	50			<b>.</b> .			14	423										
			ST	D 0020	-0	087	332	25	26	75	00	130	04	003	30	14	432										
			OBS	0020	-0	087	332	250	26	75	•			~~~		14	432										
			ST	0 0030	-0	090	333	39	26	87	00	0119	17	004	42	14	434										
			OBS	0030	-0	090	33	390	26	87	~			~~~		14	434										
			ST	D 0050	-0	112	30	-00	20	96	υu	103	01	000	0 7	14	421										
			005	0050	-0	100	22	500	20	06	0.0	100	00	000	<b>ə</b> 1	14	440										
			0.00	0075	-0	100	23/	520	27	00	00	100	,,			14	440										
			003	0100	-0	038	33	74	27	13	00	0.94	17	01	16	14	475										
			085	0100	-0	038	33	740	27	13						14	475										
			5000	0125	0	037	33	86	27	19	00	088	72	01;	39	14	515										
			085	0125	ő	037	33	860	27	19						14	515										
			ST	D 0150	0	065	339	94	27	24	00	084	24	016	50	14	533										
			OBS	0150	0	065	33	940	27	24						14	533										
			ST	0 0200	0	144	34	10	27	31	00	077	37	020	01	14	579										
			OBS	0200	0	144	34	100	27	31						14	579										
			ST	D 0250	0	172	34	27	27	43	00	066	75	02:	37	14	602										
			085	0250	0	172	34	270	27	43						14	602										
			ST	D 0300	0	186	34	36	27	49	00	0061	24	020	69	14	617										
			085	0300	0	186	34	360	27	49					• •	14	617										
			ST	D 0400	0	230	34	49	27	56	00	055	59	03	21	14	077										
			OBS	6 0400	0	230	34	490	27	56						14	022										

#### TABLE III. -- Continued

REFE	RENCE	D. CODE LATITUDE				5	MARSOEN		STATION 1	IME			ORIGI	ATOR'S		DEPTH			WAVE		WEA	CLOU	D		NODC	
CTRY	ID.	CODE	LATITU	CF	LONGITUGE	NON	300 A KC		10MI		YEAR	CRUI	S E	STATIO	4	OT OTTO	M OF	. OB2	ERVA 110	INS .	CODE	COD	ES		STATION	
				1/10	1/10	++-	10- 1-	M	O DAY	(R,1/10)		10		NUMBE	к		SAMPL	S DIR	HGTPER	SE/	A	TYPE A	MT			
31	8160	WE	7525	ON	069480W		259 59	10	0 02	095	1969	WE	2 08	6		0540	2				12	171	3		0086	
							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ATER		NINO	SAR	5. L	AIR TE	MP. C	vis	NO.	SP	CIAL								
							COLO)R 19 F	Im) OIR.	OR	ANETE	R	ORY	WET	COD	E OBS.	S OBSER	ATONS								
							000	·	c 16	FORCE	1 1 2	<u> </u>	001	01		1.6	+									
						- 1	101	Ļ	5 15	1317	12	<u> </u>	001	L01.	0	14		_	1				1	T		
		MESSENGR TIME HR 1/10	CAST NO.	C A R TYP	D ОЕРТН	(m.)	J° T		s •4.	SIGA	^A-1	SPECI ANC	NE VOL	UME 10 ⁷	≦ ∆ ⊡ DYN. A X 10 ³	\. \	LOCITY	02 ml/1	PO 4-	.р •/1	TOTAL-P μg = ο1/1	NO2-1 29 - 01/	NO3-1 1 49-01/	4 51 O4- 1 ур - с	-Si pH	.00
				ST	D 000	0	-0090		3281	264	40	00	1637	8	0000	14	4421									
		095	, ,	085	. 000	0	-0090		32810	264	40					14	4421									
				ST	D 001	0	-0090		3300	26	55	00	1491	.5	001e	- 14	4425									
				OBS	001	0	-0090		33000	26	55			_		14	4425									
				ST	D 002	0	-0090		3329	26	79	00	1268	18	0029	14	4431									
				OBS	002	0	-0090		33290	26	79	~ ~	1127			14	4431									
				51	003	0	-0091		3340	20	92	00	1131	1	1041	. 14	+434									
				085	003	0	-0041		33460	269	92	0.0	1001		0.0	14	+434									
				51	005	0	-0040		3323	201	96	00	1003	15 1	10.04	1	+439									
				065	005	6	-0040		22220	20	90 28	0.0	0007		000	. 1	++ 									
				0.00	0 007	5 E	-0140		22620	270	00	00	0 70 1		10 90		4410 6610									
				005	007	0	-0120		3366	27	10	0.0	0068	2 1	111	1	4410									
				0.00	010	õ	0120		33660	27	10		0,00			1										
				003 CT	n 010	5	-0127		3382	27	21	00	0858	3 1	1137	1	456									
				OBS	012	5	-0090		33820	27	21	•••	0000			14	456									
				51	0 015	õ	0006		3390	27	24	0.0	0839	9 (158	14	505									
				OBS	015	õ	0006		33900	27	24	••		· ·		14	505									
				ST	0 020	õ	0151		3419	27	38	00	0710	07 (0197	- ī4	4583									
				OBS	020	0	0151		34190	27	38					14	4583									
				ST	D 025	0	0201		3434	27	46	00	0637	4	0231	14	4615									
				OBS	025	0	0201	:	34340	27	46					14	+615									
				ST	D 030	0	0228	:	3442	27	51	00	0601	8 ()262	14	4637									
				OBS	030	0	0228	:	34420	27	51					14	4637									
				ST	D 040	0	0231	1	3450	27	57	00	0549	13 1	0319	1	4656									
				085	040	0	0231	1	34500	27	57					14	4656									
				ST	D 050	0	0202		3453	270	62	00	0506	2	0372	14	4660									
				OBS	. 050	0	0202		34530	276	62					14	4660									

REFE	SHIP LATITUDE				. 5	MARS	DEN	STAT	ION T	IME			ORI	GINATO	OR"S	1	DEPTH	MAX.	-	WAV	F	W.5.4	. CI	oun		1		1
CTRY	10.	CODE	LATITU	106	LONGITUDE	SOUA	RE	(GMT		YEAR	CRL	JISE	STA	TION	_	to	DEPTH	OB	SERVA 1	TIONS	THEF	2 0	ODES			STATION	
CODE	NO.		·	1/10	1/10 ²	10"	1.	MO	DAY	18.1/10		N	10.	NUA	ABER		BOTTOM	S'MPL'	S DIR.	HGTP	ER S	EA COD	E TYPE	AM	r		NUMBER	
31	8160	WE	7517	ON	068240W	259	58	10 0	2	116	1969) wi	E 2 0	87			0470					72	7	8			0087	
						ſ	WAT	TER	<u> </u>	NIND			AIR	TEAMP.	۴		NO	ľ .		ı' '	'							
							COLOR	TRANS.	DIR.	SPEED	MET	ER	ORY	V	VET	CODE	OB5.	OBSERV	CIAL ATIONS									
							CODE	(m)		FORC	E (m)	(4)	BULE	8 8	ULB		DEFINS	-										
							DŢ	S	14	S05	13	10	-011	나는이	11	5	13											
		MESSENGI TIME HR 1/10	CAST NO.	C A R TYP		т	۲	5	•/	SIG	MA-T	SPEC	CIFIC VI	OLUME -x10 ²	₹ DY: X	Д D N, м 10 ³	. SOI	UND OCITY	0 g ml/i	PO.	4 - P - a1/1	TOTAL-I 9 • at/t	NO Pe-	2−N ot/l	NO3~N µg÷ot/l	51 O 45 40 - 94	і рн	500
												Τ								1							1	
				S1	D 0000	· -01	00	325	56	26	20	00	0182	265	00	000	14	413		1		1	'		,			
		110	5	085	0000	-01	00	325	60	26	20						14	413										
				S1	0 0010	-00)95	326	58	26	29	00	0173	353	00)18	14	418										
				085	0010	-00	95	326	80	26	29						14	418										
				51	D 0020	-00	92	328	34	26	42	00	0161	30	00	35	14	424										
				085	0020	-00	92	328	340	26	42						14	424										
				51	0 0030	-00	92	332	22	26	73	00	0132	212	00	49	14	431										
				OBS	0030	-00	92	332	220	26	73						14	431										
				51	0 0050	-01	02	334	•0	26	88	00	0117	89	00	074	14	432										
				OBS	0050	-01	02	334	100	26	88						14	432										
				51	D 0075	-01	.27	335	2	26	98	00	0107	76	01	.02	14	426										
				085	0075	-01	.27	335	>20	26	98	~ ~			a 1		14	426										
				51	D 0100	-01	09	336	50	27	04	00	0102	208	01	29	14	440										
				OBS	0100	-01	.09	336	500	21	04	~ ~			. 1		14	440										
				0.00	0125	-00	23	331	5	21	13	00	0094	103	01	53	14	486										
				005	0125	-00	125	321	50	21	13	0.0	0000	0.0	01	74	14	480										
				0.00	0150	00	10	320	94	21	10	00	0009	108	01	10	14	509										
				5003	D 0200	00	10	320	16	21	20	0.0	0.70	000	0.2	10	14	509										
				0.80	0200	01	12	340	150	21	30	00	0079	100	02	10	14	504 54										
				51	0200	01	74	340	20	27	50 27	0.0		1.0	0.2	66	14	402										
				08.	0250	01	74	242	200	27	27	00	5012	10	02		1.4	602										
				SI	D 0300	01	00	342	200	27	1.7	0.0	ากคล	121	0.2	01	14	622										
				OBS	5 0300	01	99	342	80	27	42	00	0000	1	02	71	14	622										
				ST	0 0400	02	03	344	.9	27	58	00	0053	126	03	52	14	643										
				08:	5 0400	02	03	344	90	27	58						14	643										

													- 1*							-				1	-					۱
REFEREN	CE	ALL P					MAR	SOEN	STAT	ION T	IWE		. –	0	RIGINA	TOR'S		DEPTH	DEPTH	i]	W OBSER	VAVE 2VAT	ONS	WEA	- 0	COOFS			NODC	
CIRY	0. cő	ODE	LATITU	DE	LONGITU		300	ARE		GMI		TEAI	K C	RUISE	ST	ATIO	4	BOTTON	OF		IN TH	ord at	a) ((A	- 000			-		NUMBER	
	0.	-+		1/10		1/10	10-	1.	MOIN	DAT	16,1710								1.001	1	<u> </u>	-		01		7 0			0099	
3181	60 W	E	7526	DN	06811	0W	259	58	10 0	22	148	196	9 1	NE 2	088			0300	<u> </u>		_!		ļ	1 01	I.	1 0	I	l	0000	l.
								WAT	TER	<u> </u>	VINÓ	B.	ARO-		IR TEM	P. C	VIS.	NO.	SPE	CIAL										
								COLOR	TRANS. Im1	DIR.	01		ETER mbs)	80	RY ILB	BULE	COD	DEPTHS	DBSER	VATIO	NS									
								OT	c	10	SOC		29	103	12	0.2	2 0	11												
	_							DI	<u> </u>	110	1300		120	0.	,,,	V2.	· / ·	1	L		<u> </u>				T -					1
	MES	SSENGR	CAST	CAR		PTH (m)	1,	°C	l s	•/	510	MA-1	s s	PECIFIC	VOLUN	E	ΣΔ0 0 ΥΝ. Μ	so	UND	02	m1/i	PO	-P	101AL-	NI	02-N	NO3-N	5104-	Si pH	č
	НВ	1/10	Ϋ́ND.	TYP	'E D			•	'					ANGMA		·	X 103	VEL	OCITY			۰ ۵ ۷	01/1	//io • وبر	64	- a1/1	μg - αl/l	10-01	/	¢
	1																											1		
	4			SI	י מז	000		090	32	70	28	531	(001	221	(0000	14	419			,								
		148		08.	5 0	000	-0	090	32	700	26	531						14	419											
		1.0		S	ro o	010	-0	095	32	70	26	531		001	7200) (0017	14	419											
				083	5 O	010	-0	095	32	700	26	531						14	419											
				S1	TD 0	020	-0	088	32	95	26	551	(0015	5300) (0033	14	427											
				083	s o	020	-0	088	32	950	26	551						14	427											
				S1	tD C	030	-0	089	33	25	26	575		001	2992	2	0048	14	432											
				085	s c	030	-0	089	33	250	26	575						14	432											
				S	TD C	050	-0	122	33	52	26	598		0010	0806	, I	0071	. 14	424											
				083	s C	050	-0	122	33	520	26	598						14	424											
				S	TD C	075	-0	080	33	60	2	703		0010	0324	•	0098	14	449											
				083	s c	075	-0	080	33	600	2	103					0122	14	449											
				S	td c	100	-0	098	33	10	2	112		000	9404	-	0123	, 14	440											
				08	s c	100	-0	0.98	33	100	2	712		000			01/6	14	602											
				S	TD C	125	L L	010	33	86	2	720		000	0120	>	014:	14	502											
				08	S C	125	0	010	33	860	2	720		000	9600		0163	7 14	533											
				S		1150	0	1065	33	93	2	122		0000	6900	,	010	14	633											
				08	5 (1150	C C	1065	33	93U 12	2	123		000	7493		0207	1 1 4	577											
				S		200		140	34	130	2	124		000	1 -04	-	0 - 0 1	14	577											
				08	5 (200	0	140	34	120	2	124		000			0243	2 14	610											
				S	το α	1250	, C	1140	34	29	2	143		000	0004	•	0442	14	610											
				OB:	s c	1250	C	1190	34	290	2	143						14	010											

RE C1K COD	REFERENCE SHIP			JDE 1/10		DRIFT	MARS SQU	ARE	STA MO I	GMT		YEAR		ORIGI	NATO STAT	R*S ION IBER	DEP TO BOTT		AX. PTH DF	OBSE	WAV RVA	E TIONS	WEA THER CODI	C	LOUO			NODC STATION NUMBER]	
3	1810	50	WE	7535	6N	067580W		259	57	10	02	159	1969	WE	2 08	89		029	90		0.2			01	1	7 8		\neg	0089	
									WA	TER		WIND	BAF	0. L	AIR T	EMP.	2	NC		SPEC										
									COLOR	TRAN (m)	S DR	- OR	0 ME1	ER a)	DRY BULB	W BL	ET COO	DEPI	S. HS OBS	ERVA	TIDNS									
									DT	S	10	508	3 12	8 -	033	-0	22 9	11												
		[MESSENG TIME HR 1/10	CAST	CA IY	DEPTH	(m)	т	r	1	s •/	sic	5MA-T	SPECI	HC VOL	UME 1107	≨∆0 DYN. A x 10 ³	k. ,	SOUND /ELOCITY	, (0 2 m l / l	PO PO	4-P - 01/t	101AL-P 29 • 01/1	NC VB	02−N - al/l	NO3-N ¥9 - at/t	SI O 4- 199 - 94	Si pH	SCC
		[
					` S	TO 0000	0	-0	077	32	280	20	\$39	00	1649	97	0000) <u>'</u> 1	4427	<u>،</u>										-
			15	9	08:	s 0000	0	-0	077	32	800	26	539					1	4427	7										
					S	TD 0010	0	-0	079	32	285	20	543	00	1610	D 1	0016	. 1	4428	3										
					08	s 0010	0	-0	079	32	2850	20	543]	4428	3										
					S	TD 0020	0	-00	082	32	87	20	544	00	1593	33	0032	: 1	4429	2										
					08	S 002	0	-00	082	32	2870	20	544					1	4429	2										
					S	TD 0030	0	-00	065	33	335	20	583	00	1231	12	0046	1	.4449	2										
					08	S 003	0	-00	065	33	350	20	583					1	4445	2										
					S	TD 005	0	-0	105	33	350	20	596	00	1101	13	0070)]	4432	<u> </u>										
					08	S 005	0	-0	105	33	8500	20	596]	4432	2										
					S	ID 007	5	~0	080	33	560	2	703	00	1032	24	0096	, 1	4449	*										
					08	S 007	5	-0	080	33	5600	2	103	~ ~			0100		4445	,										
						10 010	0	-01	030	33	070	2	109	00	0973	28	0122		4410	2										
					08	S 010	6	-0	030	33	5700	2	109	~~		20	01/6		4470	•										
					5		2	0	030	22	202		110	00	0913	20	0145		4911											
					08	S 012	5	0	030	33	820	2	116	00			0167		4011											
							0	0	084	22	1040	2	125	00	0094	40	0101		.4941											
					08	5 015	0	0	162	20	74U	2	125	00	073/	. 1	0207	, 1	4941	2										
					00	C 020	ñ	0	152	24	160	2	726	00	015	41	0201		4593	í										
					00	5 020	ň	0	192	34	200	2	743	00	0671	15	0242		4608	ź										
					0.0	C 025	ň	0	107	24	200	2	743	00	0011		5-42		4608	ź										
					00	3 0251	~		101		200	. 2								,										

REFE CTRY CODE	ID. NO.	SHIP COOE	LATIT	JOE 1/10	LONGITUDE	DRIFT IN DCTR	MARS SOU			N TIME	1	YEAR		RIGIN A	TOR'S	-	DEPTN TO POLLOW	MA) DEPT DF	к. Н О85	WAVE	ONS	WEA	- CLOUD	2			
31	8160	WE	7545	2N	067443W		259	57	10 02	16	9 1	969	WE2	090	UANBER		0220	S'MPL	"S OIR	HGT PE	R SE	A COD	E TYPE AA	1		NUMBER	
								WAT	ER	WIN	D			RTEM	P. °C	T (0220	L			1	1 01	1 /1 /	1		0090	
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		MESSENGI TIME HR 1/10	CAST NO.	CAR TYP	D DEPTH 0	m1	т	°C	s -/.	•	SIGMA	-r	SPECIFIC	VOLUM	€ Ž				02 ml/l	PO4	-P	IDTAL-P	N02-N	ND3-N	\$104-5	i ali	s
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				់ទា	סססס 'ס)	-00	38	3281	· ' :	2638	a I	0016	541	1	000	1				-1]				Т
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				OBS	0010		-00	44	3282	0 2	2639	9					144	444									
				ST	0020		-00	46	3283	á	2640)	0016	368	00	033	144	445									
				OBS	0020		-00	46	3283	02	2640)					144	45									
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				ST	0100		-00	12	33500	2	693	1					144	71									
				OBS	0100		-00	12	3362		702		00104	452	01	.35	144	85									
				ST	D 0125		-00	31	2374	2	702						144	85									
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				OBS	0150		00	50	33830	2	716		0009.	12	01	84	145	24									
				ST	0200		010	52	3398	2	725		00083	157	~	29	145	24									
				OBS	0200		010	02	33980	2	725	,	0000.		02	20	145	28 58									

REFE	RENCE								_	_																		
CURY	ID.	SNIP	LATITU	JDE		SQU	ARE	STATI	ON 1	TIME			ORIGIN	NATOR	s	DEPT	H MAR		w	AVE		WEA	CLO	UD		1	1000	1
COOR	NO.	CODE	·	1/10	· 1/10 0 2	- 10*		un In	T.	_	1EAR	CRUISI		STATIO	N	10	. OF	0	DESERV	VATIO	NS	TNER	co	DES			STATION	
2.1	0140		74.4			10	+ • +	mo lo	AY	HR, 1/10		NU.		NUMB	E.R	00110	m S.Wbr.	S DM	н	FT PER	SEA	CODE	TYPE	AMI			NUMBER	Í
1 21	8160	IWEI	1549	INO	072530W	[260	52	09 Z	5	089	1969	WE 2	00	A		0360	o					68	6	8			0091	
							wA	TER	١	WIND	848	0-	AIR TE	MP. °C		NO.	T	-	ר' ר	• •		1 00	1 01	Ÿ 1		1	0091	I.
							COLOR	TRANS	DIR,	SPEED	MET	ĒR	DRY	WE	COD	OBS.	- OBSERV	CIAL ATION	<									
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			-				DT	S	14	\$08	05	1 0	00	1-00	2 9	12												
		MESSENGR	CAST	CARC										<u> </u>	5 0 0	·	·	_	++		-	_		-r		-		-
		NR 1/10	Ϋ NO.	TYPE	DEPTH (m)	1 1	τ	s	·	SIG	MA-T	ANOM	ALY-11	67	DYN. M	SC SC		0 2 ml	n	PO 4-1	P T	OTAL-P	NO2-	N	ND3-N	SI O4-	Si	15
						+			_					_	X 103				'	vg - at,	^ [·	l/to - و⊭	n8 - 0		µg - at/ł	vg - ot		č
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		0.90		31	0000	-00	120	326	0	26	20	001	823	9 1	2000	14	450				'			1			+	1
		003		065	0000	-00	120	326	00	26	20					14	450											
				- 51	0010	-00	030	326	2	26	22	001	804	2 (018	14	448											
				085	0010	-00	30	326	20	26	22					14	448											
				511	0020	-00	040	331	0	26	61	001	4326	6 (034	14	451											
				065	0020	-00	40	331	00	26	61					14	451											
				511	0030	-00	175	333	5	26	83	001	2276	6 (048	14	440											
				085	0030	-00	075	333	50	26	83					14	440											
				51	0050	-01	.05	335	4	26	99	001	070	7 (071	14	432											
				UBS	0050	-01	05	335	40	26	99					14	432											
				511	0075	-01	10	336	5	27	80	000	9835	5 (096	14	436											
				082	0075	-01	10	336	50	27	80					14	436											
				SIL	0100	-00	40	3371	3	27	16	000	9103	3 (120	14	474											
				OBS	0100	-00	40	3371	30	27	16					14	474											
				SIL	0125	-00	10	3390)	27.	24	0001	3322	z c	142	14	494											
				OBS	0125	-00	10	3390	0	27.	24					14	494											
				SIL	0150	-00	56	3392	2	27	28	000	950	0 0	162	14	477											
				UBS	0150	-00	56	3392	20	272	85					14	477											
				510	0200	-00	28	3408	3	276	40	0006	848	3 0	199	14	500											
				085	0200	-00	28	3408	0	274	40					14	500											
				080	0250	-00	18	3418	3	274	47	0006	129	<i>)</i> 0	232	14	515											
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REFE	FERENCE Y ID. YE NO. CODE 10. 10. 10. 10. 10. 10. 10. 10.				LONGI	Delet	SOU	SDEN ARE	AT2	TION T	IME	YEAR	CRUIST	ORIGIN		S N	DEI T BOT	PTH IO TOM	MAX. DEPTH OF	OB	WAV SERVA	TIDNS	WE THE COL	A- R DE	CLOUD			NODC STATION NUMBER	
31	8160	WE	7600	ON	0733	00W	260	63	09	25	102	1969	WE2	00	в		03	40	1 1016 3	Dik.			0	3	5 8			0092	
								COLOR	TRANS (m)	DIR.	SPEEL OR FORC	0 BAR MET (mb	0	DRY ULB	WE' BUL		DEP	0. 85. 17HS	SPEC OBSERV	ATIONS									
								DT	S	09	\$15	04	5 -0	08	-01	1 9	1.	2											
		MESSENGE TIME MR 1/10	CAST NO.	CAF	PE	DEPTH (m)	T	*c	s	•/	SIG	MA-T	SPECIFI	C VOLU	IME 10 ⁷	₹ △ C DYN. A X 10 ³	Å.	SOU VELO	IND	02 ml/	PC وبر	04-P	TOTAL-	- +	NO2-N µg - at/l	NO3-N µg - oi/l	SI D4- PB-0	-Si pH	200
									1	70	1	20		770		0000		1	. 30								1		
		1.0.		5		0000	-0	068	32	700	20	30	001	129	4	0000	,	144	430										
		102	2	083	5	0000	-0	058	32	700	26	30	001	728	1	0017	,	144	430										
				08	5	0010	-0	070	32	700	26	30		.20	•			144	430										
				SI	TD	0020	-0	073	32	70	26	30	001	726	5	0035	5	144	430										
				OB:	5	0020	-0	073	32	700	26	30						144	430										
				s	TD	0030	-0	080	33	10	26	63	001	417	2	0050)	144	434										
				08	5	0030	-0	080	33	100	26	63						144	434										
				\$	10	0050	-0	116	33	32	26	82	001	235	7	0077	7	144	424										
				0B3	5	0050	-0	116	33	320	26	82						144	424										
				\$	TD	0075	-0	111	33	52	26	98	001	082	7	0106	5	144	433										
				OB:	5	0075	-0	111	33	520	26	98			_			144	433										
				S	TD	0100	-0	100	33	63	27	06	001	001	0	0132	2	144	444										
				0B:	s	0100	-0	100	33	630	27	106						144	444										
				5	10	0125	-0	084	33	13	21	14	000	1929	4	0126		144	421										
				08	5	0125	-0	084	22	130	21	14	0.00		c	0170		144	491										
				5	10	0150	-0	075	20	80	21	19	000	8/8	>	0173	,	144	400										
				08	5	0150	-0	075	20	07	21	19	0.00	777	7	0210		144	400 530										
						0200	0	037	24	070	21	20	000	121	2	0213	,	14.	530										
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REF	ERENCE	SHIP	1.4.717.		LONCITURE	μĒ	MAR	DEN	STA	TION	IME			DRIGIN	NATOR	•5		DEPTH	DEPTH	1	WAY	VE	i	WEA-	CLOUD			NODC	1
CODE	ID. NO.	CODE		1/10	1/1		100	1 11	101	0.0	10.1/10	TEAK	CRUISE NO.		STATIO	DN LER	8	0110 M	DF	0.0	Juce 1	- 110 143	_	CODE	CODE	<u>'</u>		NUMBER	1
	0160	wr l	7 4 0 7	E NI	073160		240	63	0.0	26	117	1040	WER	00	<i>c</i>		-	240	1	1 UK	101	1.	<u>`</u>	0.2	5 9	-		0093	
1 21	0100		1601	JULI	073130	. (1200	103	109	231	117	1909	1#62	00	<u> </u>	- 1-	4	540	rL	<u> </u>	1 1			05	1 2 10	1	I	0095	1
									1.	+	V IND	BAR	0			- v	/IS.	ND.	SPE	CIAL									
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		TIME	및 NO.	C AI	D DEPTH	1 (m.)	T	°C		s •4.	SIG	MA-T	ANON	ALV-X	10 ⁷	DYN.	м.	VELO		0 2 m1/1		04-P	101	AL-P	NO ₂ -N	NO3-N	5104~	Si pH	ć
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				00.		50	-0	0.06	22	24	20	0.0	003	211	4	007	16	14	434										
				08	5 00	50	-0	0.96	33	360	26	84	001	~ 1 1	0		0	14	434										
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				OB:	5 01;	25	-0	073	33	800	27	19						14	463										
				S	rD 019	50	-0	022	33	90	27	25	000	825	9	017	4	144	492										
				OB:	5 01	50	-0	022	33	900	27	25				_		144	492										
				S	10 020	00	-0	060	34	12	27	44	000	639	2	021	1	14	486										
				OB:	5 020	00	-0	060	34	120	27	44		_				144	486										
				S	rd 029	50	-00	048	34	20	27	50	000	582	6	024	1	14	501										
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REFERENC	:ŧ	SHIP				MARS	DEN	STA	TIDN 1	TIME			0	RIGINA	TDR'S		DEPTH	DEPTH	:	W	AVE		WEA-	CLO	υD			NODC	
CIAY ID		CODE				3007	1	140.1	DAN D		TEAK	C	RUISE	\$1 N	ATION		10 801107	OF		URZEK	VATION	45	- CODE	00	DES			NUMBER	
				1/10	0.00	10			DAT	MK, 1710		-			UMBER	-		2.WPL	5 0	IR H	GT PER	SEA		TYPE	A.M.1				
31816	50	WEI	7616	5N	072390W	260	62	09	25	131	196	9 1	VE 2	000) 		0440	<u>'</u>		_1			03	2	8	ļ		0094	
						-	. W A	TER	+	WIND	- 84	RD+	A	IR TEN	1. C	214	ND.	SPE	CIAL										
							COLOR	TRAN Imi	S. DIR.	OR	(M8	DAI	80	RY LB	WET	C0D	DEPTHS	DBSER	VA TIO	NS									
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		MESSEN GR	CAST	CAR	D DEPTH (m)	1	°C		•4.	SIG	MA -T	51	PECIFIC	νοιυ	AE S		so	DND	0		PD 4-P	· T	OTAL-P	ND2-	N	ND3-N	SID4-S		15
		HR 1/10	ND.	TYP	£					1.0		1	ANDMA	17-210	″ [°]	x 10 ³	VEL	0.0111	071		µg - 01/	n	µg • o1/l	nð - a	/1	μg - αt/l	yg - a1∕	I PH	d
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	I			์ st	0000 0	' -oc	080	32	75	26	35	' (0016	870	່ວ່	000	14	425		1		1			1	ι		1	1
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				085	0010	-00	080	32	760	26	35						14	426											
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				085	0020	-00	283	32	770	26	36						14	427											
				ST	D 0030	-00)72	33	21	26	71	0	0013	358	3 0	049	14	440											
				085	5 0030	-00	072	33	210	26	71						14	440											
				ST	D 0050	-00	082	33	42	26	89	C	0011	705	5 0	074	14	441											
				OBS	0050	-00	082	33	420	26	89						14	441											
				ST	0 0075	-00	96	33	56	27	01	C	010	572	2 0	102	14	441											
				OBS	0075	-00	96	- 33	560	27	01						14	441											
				- 51	0 0100	-00	179	20	11	21	17	C	1008	018	5 0	126	14	456											
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				ст ст	n 0200	-00	124	34	05	27	20	6	007	004		207	14	502											
				095	0200	-00	124	34	050	27	27			0,0	, ,	-01	14	502											
				ST	D 0250	-00	138	34	17	27	4.8	6	006	103	0	240	14	505											
				085	0250	-00	38	34	170	27	48					_ 40	14	505											
				ST	0 0300	-00	30	34	23	27	52	c	0005	677	0	269	14	518											
				OBS	0300	-00	30	34	230	27	52					- /	14	518											
				ST	D 0400	-00	32	34	31	27	59	C	005	040	0	323	14	535											
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