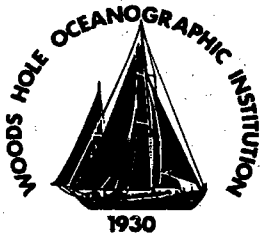
WHOI-91-32

Copy 1

Woods Hole Oceanographic Institution



Hydrographic Data From the 10°N Transpacific Cruise R/V *Moana Wave* Cruise #89-3, -4, -6

by

EPIC Voyageurs

September 1991

Technical Report

Funding was provided by the National Science Foundation through Grant Nos. OCE 87-16910, and OCE 88-12576.

Approved for public release; distribution unlimited.

DOCUMENT
LIBRARY
Woods Hole Oceanographic
Institution

WHOI-91-32

Hydrographic Data From the 10°N Transpacific Cruise R/V *Moana Wave* Cruise #89-3, -4, -6

by

EPIC Voyageurs

Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

September 1991

Technical Report

Funding was provided by the National Science Foundation through Grant Nos. OCE 87-16910 and OCE 88-12576.

Reproduction in whole or in part is permitted for any purpose of the United States Government. This report should be cited as: Woods Hole Oceanog. Inst. Tech. Rept., WHOI-91-32.

Approved for publication; distribution unlimited.

Approved for Distribution:

James Luyten, Chairman
Department of Physical Oceanography

MBL/WHOI
0 0301 0096282 5

Table of Contents

	Page
Preface	ii
Abstract	1
1. Introduction	1
2. Instrumentation and Data Aquisition Systems	2
3. Cruise Overview	3
4. Water Mass Property Distributions	6
5. Description of Analysis Procedures and Calibration Methods	7
a. Underway Measurements	7
b. Precision and Accuracy of Water Sample Salinity and Oxygen Measurements	17
Salinity	18
Oxygen	19
c. CTD Measurements	30
Temperature and Pressure Data	30
Conductivity Data	34
Oxygen Data	41
d. Nutrient Precision and Accuracy	44
e. Chlorofluorocarbon Measurements	48
f. Helium Isotopes and Tritium Measurements	51
6. Acknowledgements	60
7. References	61
Appendix A	
Scientific Participants	64
Appendix B	
Description of Plates 1-4	66
Appendix C	
Description of Data Fields Shown in Station Listings	67
Station Data Listings	72

PREFACE

It is difficult to apportion credit for the success of the 10°N trans-Pacific hydrographic section measurement program in a single author list. First of all, all of the cruise participants listed in Appendix A were essential. Authors of individual sections of the Data Report are noted at the head of each section. George Knapp and Lorraine Barbour drafted the property sections, Plates 1, 2, 3, & 4. Jane Dunworth-Baker and Ann Spencer prepared the data listings in Appendix C. Overall compilation and editing of this report were done by Marvel Stalcup, George Knapp, Barbara Gaffron, Harry Bryden and John Toole.

ABSTRACT

A trans-Pacific hydrographic section along approximate latitude 10°N was occupied in February-May, 1989, from the R/V Moana Wave. A description of the instrumentation employed and data reduction techniques is given. Listings of the observations and plates of contoured sections of the water property distributions are presented, along with statements of data accuracies and uncertainties.

1. INTRODUCTION

The trans-Pacific hydrographic section across 10°N was initially proposed by Drs. Harry Bryden and John Toole to the National Science Foundation in 1987. The motivations for this section were to help complete the first comprehensive survey of the water mass characteristics of the North Pacific Ocean; to determine the structure of the meridional circulation across 10°N and its associated meridional heat and fresh water transports; and, in conjunction with the trans-Pacific hydrographic section carried out along 12-15°S in 1988, to estimate the cross-equatorial exchange between the South and North Pacific oceans. Because this 10°N trans-Pacific section is the longest hydrographic section ever attempted (16,000 km in length or 40% of the earth's circumference) and because of the emphasis on determining the cross-equatorial exchange in the Pacific Ocean, we have taken to calling this program the Equatorial Pacific Interocean Circulation (EPIC) study. Following acceptance of this proposal by the National Science Foundation, the hydrographic section was scheduled for early 1989 and an announcement of opportunity was made for additional sampling programs to augment the temperature, salinity and dissolved oxygen measurement effort. Programs to measure nutrients, chlorofluorocarbons and helium/tritium concentrations were proposed, accepted and carried out on the 10°N hydrographic section. R/V Moana Wave cruise #89-3,-4,-6 consisted of three legs, which form one long hydrographic section, generally along 9.5°N, from the east coast of Mindanao in the Philippines to Puntarenas, Costa Rica in Central America. This report presents the CTD and water sample data collected on the 221 full ocean depth stations during the 10°N trans-Pacific hydrographic section carried out aboard the R/V Moana Wave during February to May 1989. The data set collected during this cruise is called the Moana Wave 89-3 data.

2. INSTRUMENTATION AND DATA ACQUISITION

Three EG&G/Neil Brown Instrument Systems (NBIS) Mark IIIB CTD/O_2 (Conductivity/Temperature/Depth/Oxygen) profilers (WHOI instruments #8, #9, and #10) were employed on the cruise. The underwater package consisted of a CTD instrument, a 24-position General Oceanics, Inc. (GO) rosette sampler, and a 12 kHz acoustic pinger, all mounted within a guard cage of WHOI design. Several hundred pounds of lead weight were added to the cage to facilitate rapid lowering of the package. A detailed description of the CTD instrumentation can be found in Brown and Morrison (1978). Ten-liter PVC sample bottles, manufactured by GO and Scripps Institution of Oceanography were employed. Several additional 2.4-liter bottles, designed by J. Bullister, were attached to the rosette frame and tripped simultaneously with adjacent 10-liter bottles. All of the 10 liter Niskin and SIO sampling bottles were shipped to Palau in an insulated 20' container. The container was mounted on the Moana Wave for the entire voyage where it served as storage space for spare equipment.

The Markey winch system used on the cruise was originally located on the R/V Thomas Thompson. It was transferred to R/V Moana Wave purposely for the 10°N trans-Pacific cruise. Leg one commenced with 10,000 m of 0.322" three-conductor electromechanical cable installed on the winch. A spare drum holding approximately 6000 m of wire was secured on deck. Lowering rates during the voyage averaged 60 m/min, limited chiefly by the relatively slow terminal velocity of the large rosette package. Raising rates were typically 70 m/min leading to average station times of 3.5 hrs in 5000 m of water.

Binary data from the CTD were obtained via MkIII deck units equipped with a WHOI built interface which shifted the output data rate from its 5000 baud default to 9600 baud. The primary data acquisition system consisted of a Digital Electronics Corporation (DEC) Microvax computer (MicroVax II BA23 enclosure with a 71 MB hard disk and 3 MB of memory) running the VAX/VMS operating system, version 4.4. The Aqui89 WHOI CTD Data Acquisition Software (pre 1.0 version) was employed to scale the data to physical units as well as to list and display the data graphically in real time. Raw data were concurrently archived to disk and 9-track digital tape. Audio tape back-up analog recordings were also collected. Data were organized and processed on the MicroVax II as described by Millard and Galbraith (1982), with only minor updates and enhancements. Because the MicroVax system had only been previously tested in the laboratory and was a preliminary version, data were logged concurrently to a NEC Powermate 286 microcomputer, using the EG&G Oceansoft MkIII/SCTD Acquisition software package.

Water sample analysis for salinity and dissolved oxygen was conducted in a WHOI portable laboratory secured to the main deck of the ship. The portable laboratory is capable of maintaining a

constant environmental temperature within ± 1°C. The nominal laboratory temperature was 22°C. Two Guildline Autosal Model 8400A salinometers were utilized to determine water sample salinities (WHOI instrument numbers 8 and 9). Water sample analysis for dissolved oxygen was also performed in the constant temperature laboratory using a modified Winkler titration technique. The measurements were conducted on 50 ml aliquots of the samples. A Metrohm Titroprocessor controlling a Metrohm Dosimat was used to titrate to an amperometric endpoint as described by Knapp et al. (1989).

Analyses of water sample nutrient concentrations were performed by a team of analysts from Oregon State University, using an Alpkem Corp. Rapid Flow Analyzer, Model RFA™-300. This instrumentation was setup in one of Moana Wave's laboratories. In an adjacent laboratory, the concentrations of the dissolved atmospheric chlorofluorocarbons (CFCs) F-11 (trichlorofluoromethane) and F-12 (dichlorodifluoromethane) were measured by shipboard electron-capture gas chromatography. The shipboard CFC program was multi-institutional, and the equipment was supplied by R. Weiss's group at Scripps Institution of Oceanography. Finally, selected water samples were collected during the cruise for subsequent shore-based analysis of ^{3}He and Tritium at the WHOI facility.

The ship's equipment inventory included an acoustic Doppler velocity profiling (ADCP) system, RD 150-kHz profiler with an IBM PC compatible acquisition computer running a customized version of the RDI data acquisition software developed by Dr. Eric Firing, U. Hawaii. A shipboard computer system (Sun workstation based) was employed to archive navigation information (transit and GPS fixes) from which all CTD station navigation information was updated after each leg. Relative wind speed and direction were also recorded by the Sun computer. Analog bathymetric recordings from a 3.5 kHz sounding system were made continuously while underway between stations. A hull-mounted 12 kHz transducer was employed on leg 1 to monitor the CTD underwater package height off the bottom. This transducer did not function well. A portable transducer was employed on legs 2 and 3 with intermittent success.

3. CRUISE OVERVIEW

Leg 1 of the trans-Pacific section, R/V Moana Wave cruise #89-3, began in Palau in early February, 1989 when the first party of scientists joined the ship to prepare the instrumentation and equipment. A list of the scientific participants, including responsibilities and affiliations is presented in Appendix A. The bulk of the equipment had previously been shipped to Hawaii and loaded on the vessel. The R/V Moana Wave subsequently transited from Honolulu to Palau, arriving in port on February 2. While setting up the instrumentation in port, leaks were discovered in

the water baths in Autosal Salinometers #8 and #9 around their heat exchangers. Both instruments were disassembled and repaired before the ship left Palau. Autosal #8 was designated as the primary instrument for the voyage.

Departure from Palau for the Philippine coast occurred on February 6. En route, two stations near 9.3°N, 130.8°E were occupied to test instrumentation. These test stations revealed a level-winding problem with the hydrographic winch/wire system. Subsequent tests determined that the wire and leibus grooving on the drum were incompatible (the wire diameter was smaller than specification). After extensive deliberation it was decided to initiate work with the existing wire/drum set-up, deferring a drum change until the next port stop. Results from the test station also motivated selection of CTD #8 as the primary instrument.

Station 3 was occupied in 125 m of water at 8°N off the coast of Mindanao Island, Philippines at longitude 126.5°E. Sampling proceeded to the east on 8°N to longitude 130°E, reoccupying sites sampled by the U.S./P.R.C. Cooperative Program (Cook et al., 1990). The cruise track was then angled slightly to the north to avoid a region of complicated bathymetry. As the water sample salinity data from the Philippine Basin accumulated, a subtle problem with the CTD derived salinity became apparent. (This problem is detailed in Section 5c, below.) Thus on station 27, CTD #9 was designated the primary instrument, and was subsequently utilized for the bulk of the stations across the Pacific. Stations 26 (with CTD #8) and 27 (with #9) were in the same location to facilitate calibration of the complete data set.

During leg 1, monitoring the CTD underwater package height above the bottom using the 12 kHz pinger proved problematic. No recognizable bottom echo was observable on the analogue recorder in water depths greater than 1000 m. Consequently, operational CTD station depths were calculated from the 3.5 kHz echosounder data (which included a generous margin of safety). We estimate that leg one casts terminate within 100-200 m of the bottom.

A problem developed with the General Oceanics rosette tripping mechanism during the first leg of the cruise which resulted in both mis-firing and double-tripping of the water sampling bottles. This problem was eventually traced to slippage between the stepping motor and the tripping mechanism caused by excessive tension on the tripping lanyards. The higher than normal tension was the result of mounting several Bullister style, 2.4 liter, water sampling bottles to the rosette frame and attaching their tripping lanyards to some of the lanyards used to trip the Niskin bottles. This problem was identified and corrected during leg one and did not recur during the cruise.

On February 27, at station 67, one transducer of the ADCP array failed. The problem was finally diagnosed two days later and

the system was run with 3 transducers, beginning with station 71. (Three acoustic beams are sufficient to estimate the relative velocity profile, the 4-beam standard configuration provides redundant information.) A two day gap exists in the final ADCP record, spanning the longitude range 161.7-165.0°E.

The first leg measurement program was completed with stations 82 and 83 at 9.5°N, 171.3°E on March 4. Station 82 was with CTD #9, 83 with #8; the double station was an effort to monitor relative sensor drift in the two instruments. From this location the ship departed from the cruise track to change scientific parties and CTD cables at Majuro in the Marshall Islands.

Stations 84 and 85, the first two made during the second leg, were occupied at the same position as stations 82-83, and again utilized both CTD instruments, 8 and 9, respectively. The time interval between stations 83 and 84 was 5 days. Station 90 marked the first use of the portable 12 kHz transducer. Subsequent casts were made to within 10 m of the ocean floor. The ship crossed the international dateline between stations 96 and 97, with 97 signalling the start of West longitudes. Once away from the western boundary of the Pacific Central Basin, station spacing opened up to 50 nm, the maximum spacing employed on the transect. Late in leg 2, water sample salinity data became somewhat noisy (scatter on deep water potential temperature/salinity plots was somewhat in excess of 0.001). Poor flushing of the Autosal conductivity cell was ultimately discovered to be the problem. Station 119 at 9.5°N, 161.2°W completed work on the second leg of the cruise. The ship then steamed to Hawaii in order to meet a prior commitment to the Hawaii Ocean Time Series (HOTS) station. The HOTS work occupied 9 days of ship time. During this interval, the bulk of the scientific equipment remained setup aboard the vessel. The two CTD instruments were stored ashore (with the sensors covered and immersed in distilled water.) Because CTD #8 was considered suspect, a third instrument (WHOI CTD #10) was prepared and air-shipped to Hawaii for leg 3. While in port, the ADCP transducer was replaced by a new unit.

Leg 3 departed from Hawaii on April 2. The transit south was extended by 3 days because of a medical emergency. Stations 120 and 121 (with CTD instruments 10 and 9 respectively), the first two made during the third leg, were made near the position of station 119, about 19 days later. Autosal instrument #9 was used to measure all of the salinities during leg three. Careful examination of the final salinity data reveals a subtle shift of order 0.0015 at a potential temperature of 0.90 to 0.95°C between stations at the end of leg 2 and the beginning of leg 3. The shift is in both the water sample data and the CTD data which were calibrated to the bottle salts. It is conceivable that the shift is instrumental; Autosal #8 was experiencing problems at the end of leg 2. The shift might also be real, the break between legs 2 and 3 occurred near the Line Islands ridge separating the Central and

Northeast Pacific basins. As we have no additional information to guide interpretation of these measurements, the shift has been retained in the final data set.

Stations on leg 3 continued at latitude 9.5°N with nominal 50 nm spacing using CTD #9. There was a tendency for the conductivity cell on CTD #9 to drift fresh with time, consistent with conductivity cell coating. On leg 3, the CTD salinity shifts became bidirectional between stations 174-178. Large jumps in conductivity then became evident during stations 193-195. The decision was made at this point to switch over to the third instrument, CTD #10. Post-cruise examination of CTD #9 revealed a crack in the conductivity cell.

Stations 215-217 were made in deep water at the same geographical position, 9.6°N and 86.2°W, to compare the data from the three CTDs used during this cruise. On approach of the Central American coast, the cruise track was diverted north so as to intersect the coast at approximately right angle. Station 221, the last of the cruise, was made in 312 m of water near the coast of Costa Rica. R/V Moana Wave then transited to Puntarenas, Costa Rica where the scientific party left ship. The bulk of the scientific equipment, which was loaded into the portable laboratory and shipping van, rode the ship through the Panama Canal and was shipped back to WHOI from Jacksonville, Florida, the Moana Wave's next port of call.

4. WATER MASS PROPERTY DISTRIBUTIONS

Plate 1 contains a chart showing the location of the stations and the section of potential density along the ship's track. Plates 2, 3 and 4 are profiles showing the distribution of potential temperature and salinity, dissolved oxygen and silica, and nitrate and phosphate. The horizontal axis of the plots is along-track distance (hence the uneven longitude scales) and the vertical axis is depth in meters. The upper portion of each figure displays an expanded view of the first 1000 m of the water column with a vertical exaggeration of 1250:1. Below these are the full-depth sections with a vertical exaggeration of 500:1. The bottom topography shown in these sections is from the acoustic bathymetry measured along the ship's track and has been corrected for the speed of sound in seawater according to Carter (1980). The sections showing potential temperature, potential density, salinity and oxygen were prepared from the calibrated CTD data. The locations of the water samples used to construct the nutrient sections are shown by the dots at each station position. All property distributions were contoured by hand.

The CTD data are presented for each station at standard depths, and the hydrographic data at observed depths in Appendix C.

The listing for each station also includes the calculated variables, potential temperature, potential densities relative to 0, 2000 and 4000 dbar, dynamic height, Brunt-Väisäla frequency and depth. A complete description of the station listing including units, algorithms, and references is presented in Appendix C.

5. DESCRIPTION OF ANALYSIS PROCEDURES AND CALIBRATION METHODS

5a. UNDERWAY MEASUREMENTS

by
E. Brady, E. Firing, A.Spencer and S. Wijffels

The suite of continuous underway measurements collected during the cruise was processed as follows. The analogue bathymetric sounding records were manually digitized on board (using a digitizer board integrated into the shipboard computer system) by the the R/V Moana Wave's marine technicians. The relative wind speed and direction information were processed to one minute averages, as were ship navigation, heading and speed information. Absolute wind speed and direction were determined from merging the navigation and relative wind measurements. Stick plots of the time series wind vectors during the 10°N cruise (Figure 5a-1) show that the cruise occurred during a period of reasonably steady northeast trade winds. The ADCP data were vector averaged in 5 minute blocks, yielding estimates of east and north relative velocity profiles to 200 to 300 m depth. These data were subsequently combined with ship navigation data to yield absolute ocean velocity data. This post-cruise processing was done in collaboration with Eric Firing of the Hawaii Institute of Geophysics at the University of Hawaii basically following the procedure described by Bahr et al. (1989). Time series of east and north velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220 m (Figures 5a-2 to 5a-7) show that the 10°N section occurred in the region of westward currents associated with the North Equatorial Current. Furthermore, these velocities were averaged over 5° longitude bins for presentation in Tables 5a-1 and 5a-2.

Figure 5a-1: Stick plots of the time series wind vectors measured during the 10°N section.

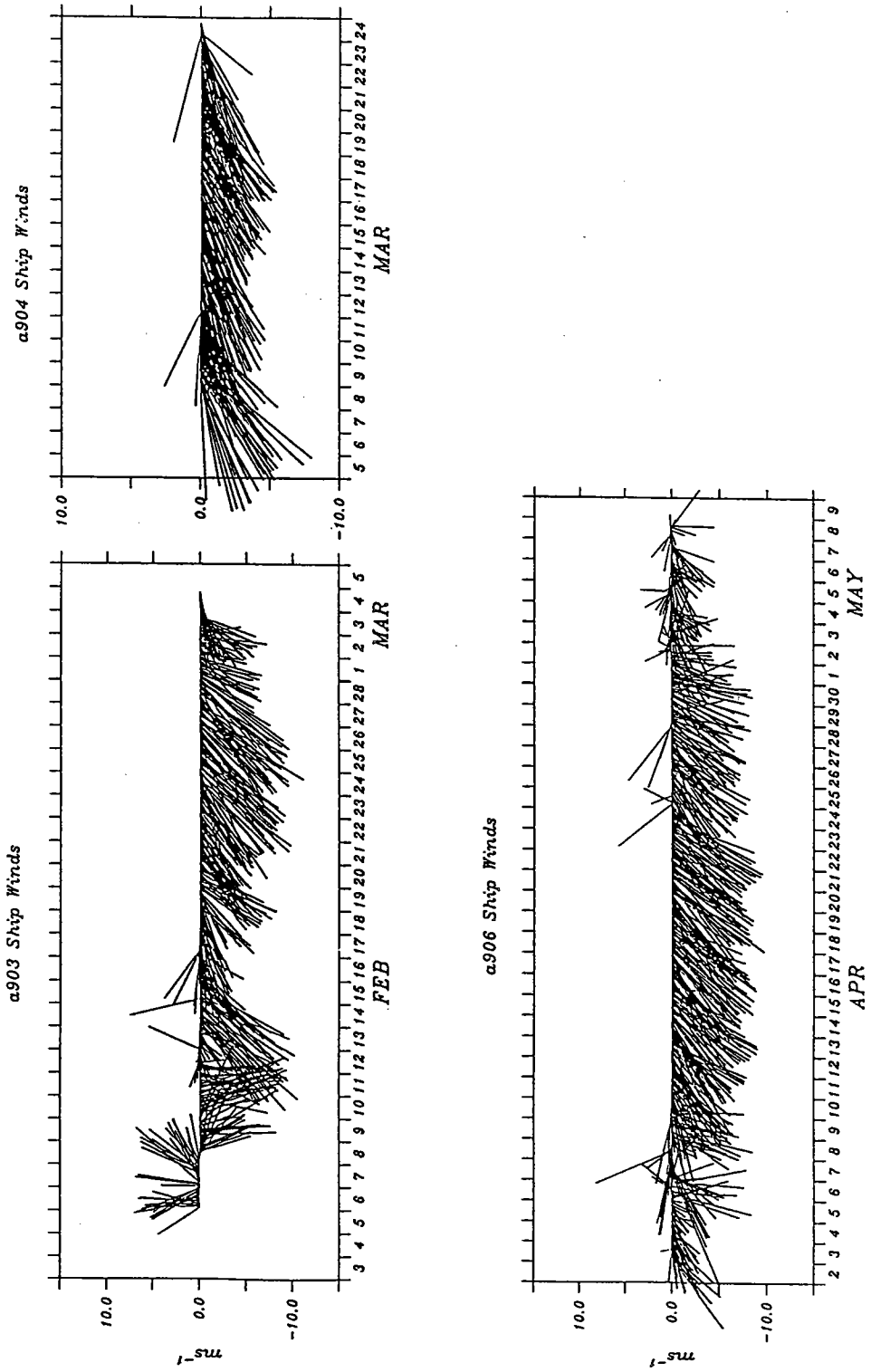


Figure 5a-2: Time series of north velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 1.

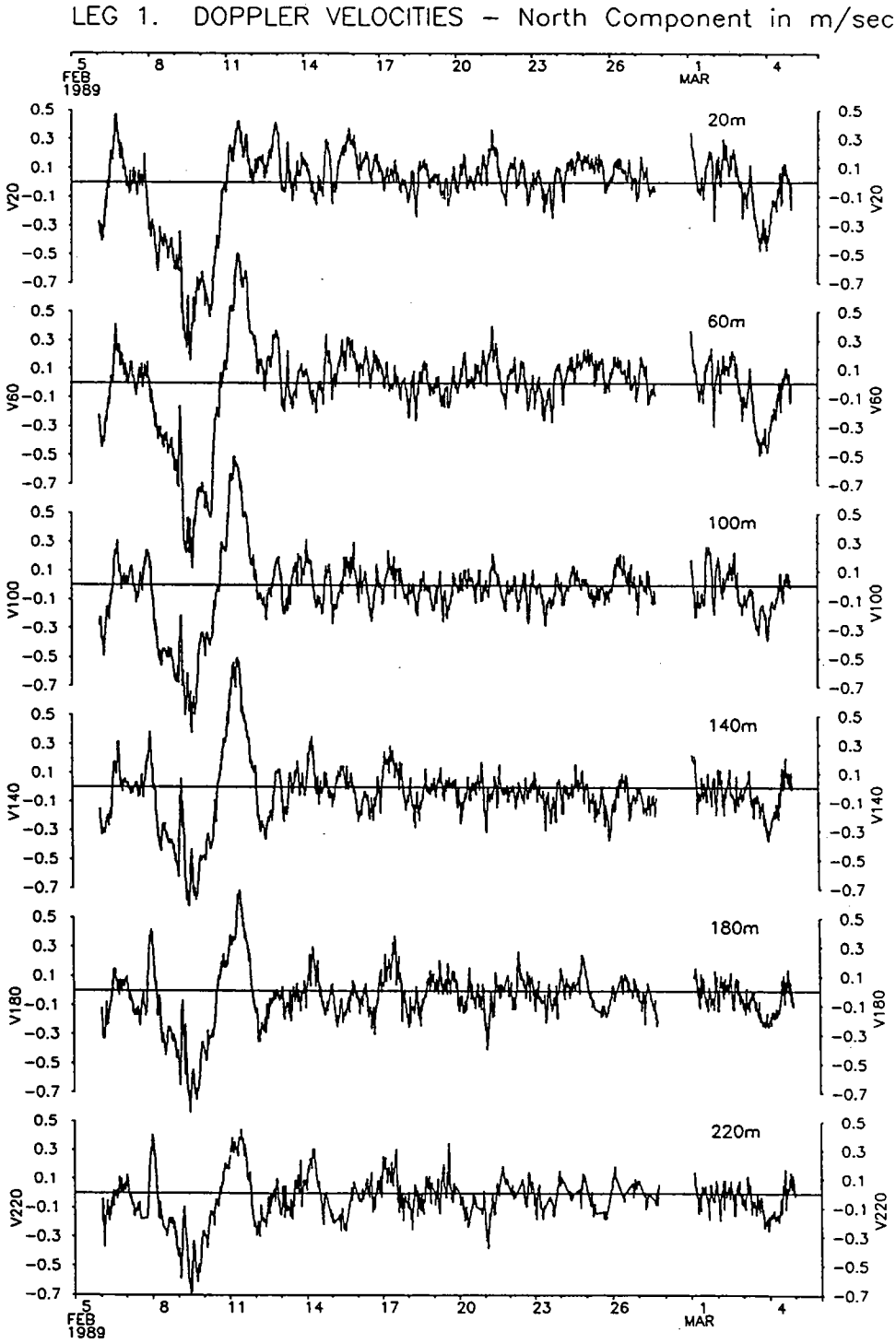


Figure 5a-3: Time series of east velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 1.

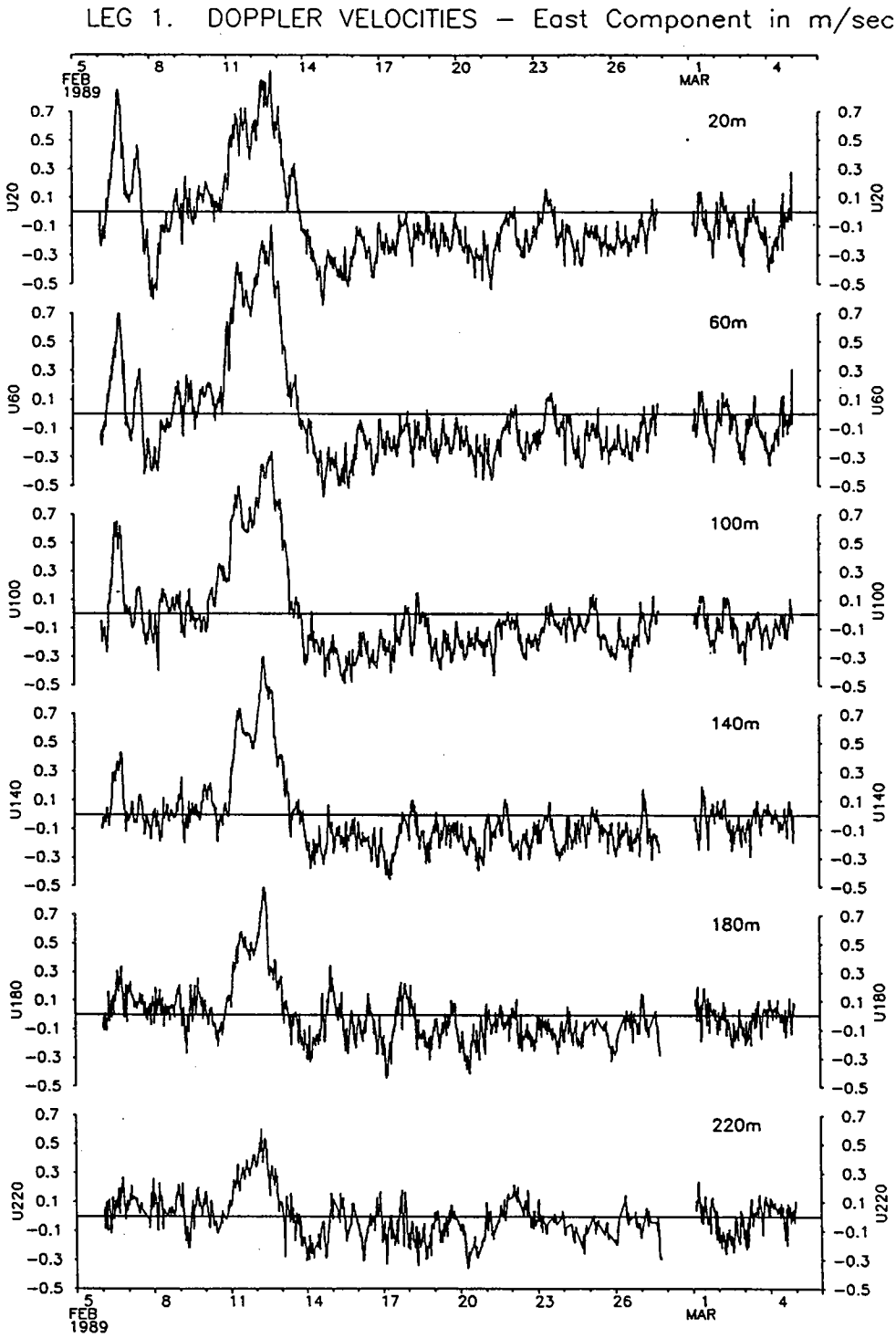


Figure 5a-4: Time series of north velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 2.

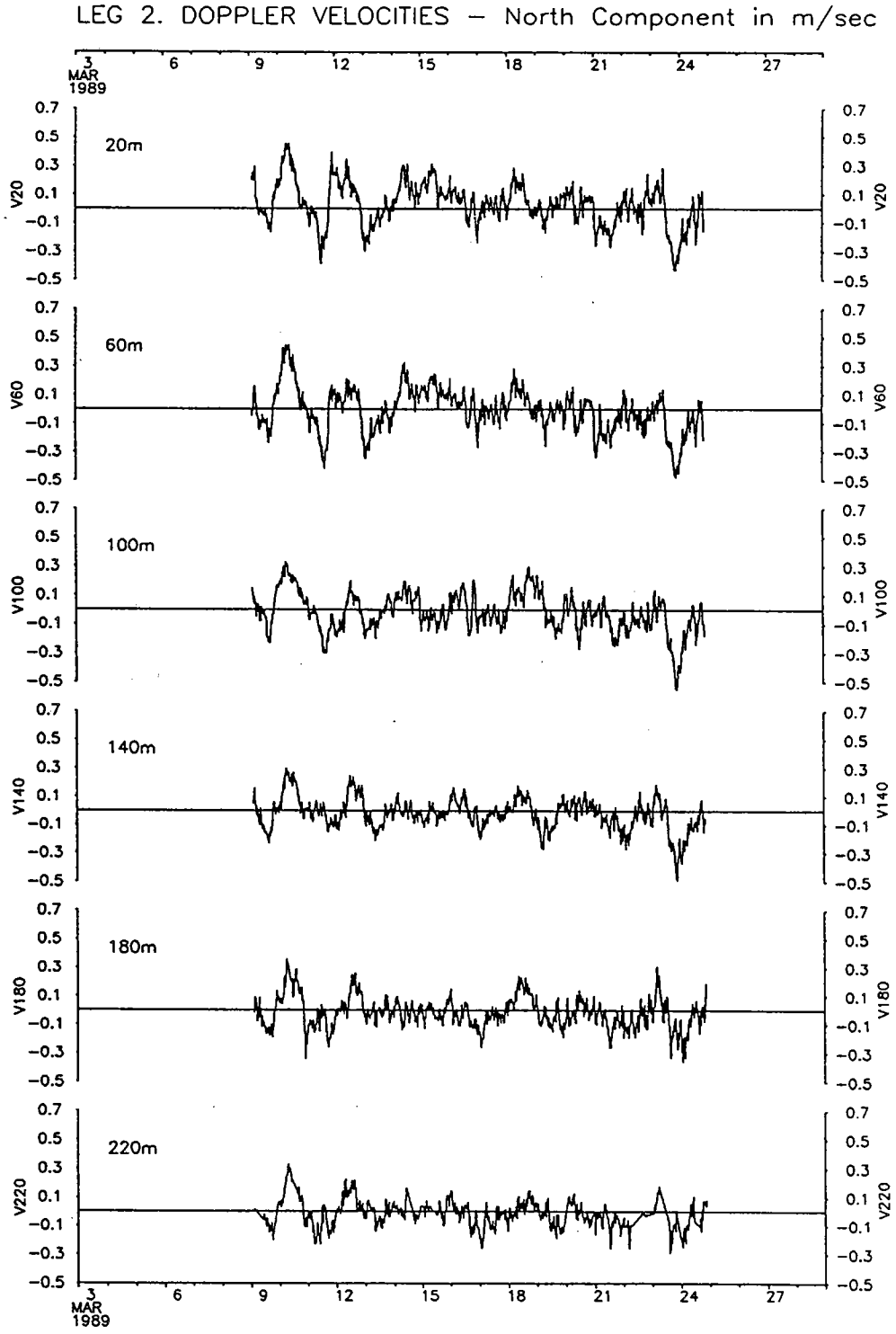


Figure 5a-5: Time series of east velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 2.

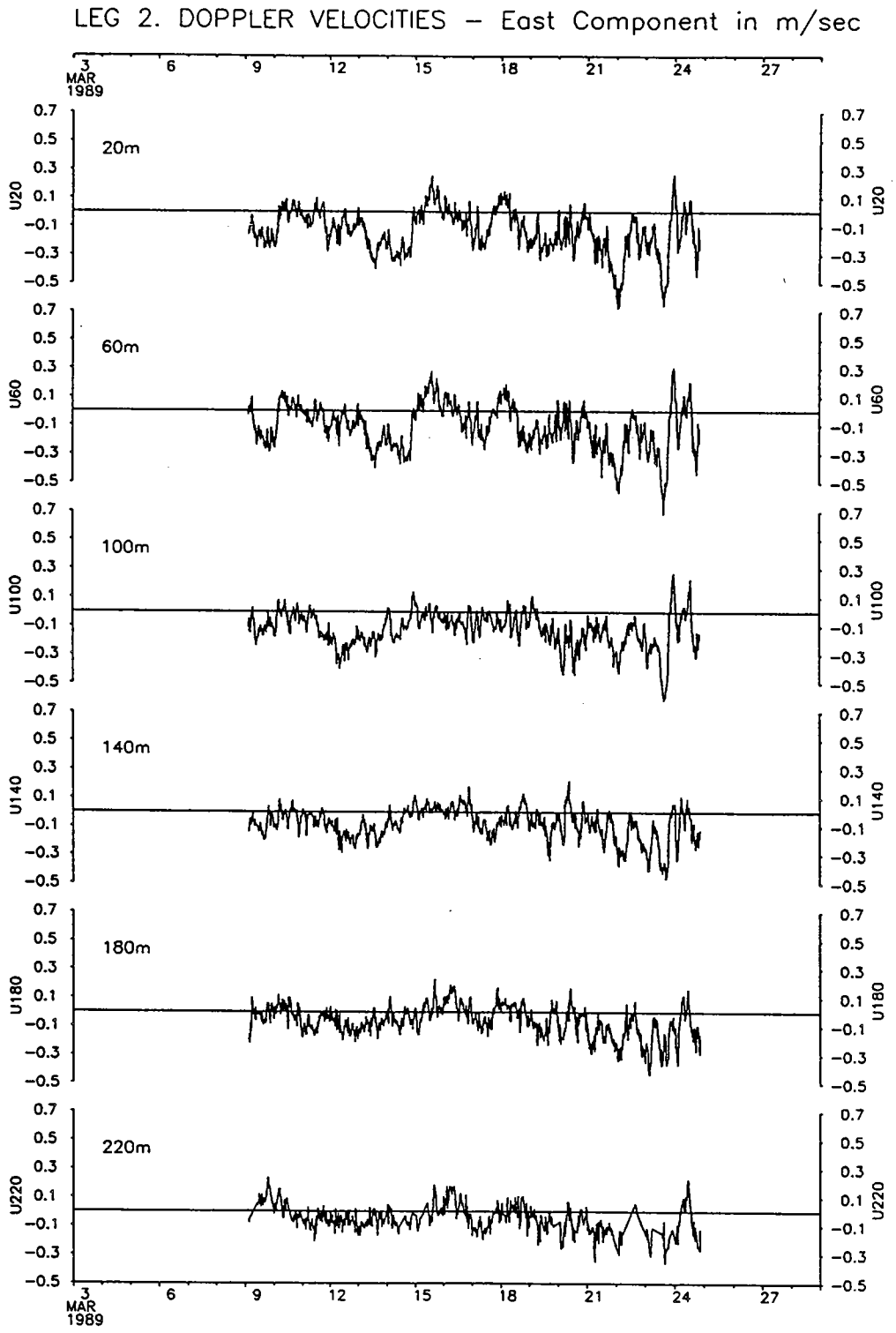


Figure 5a-6: Time series of north velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 3.

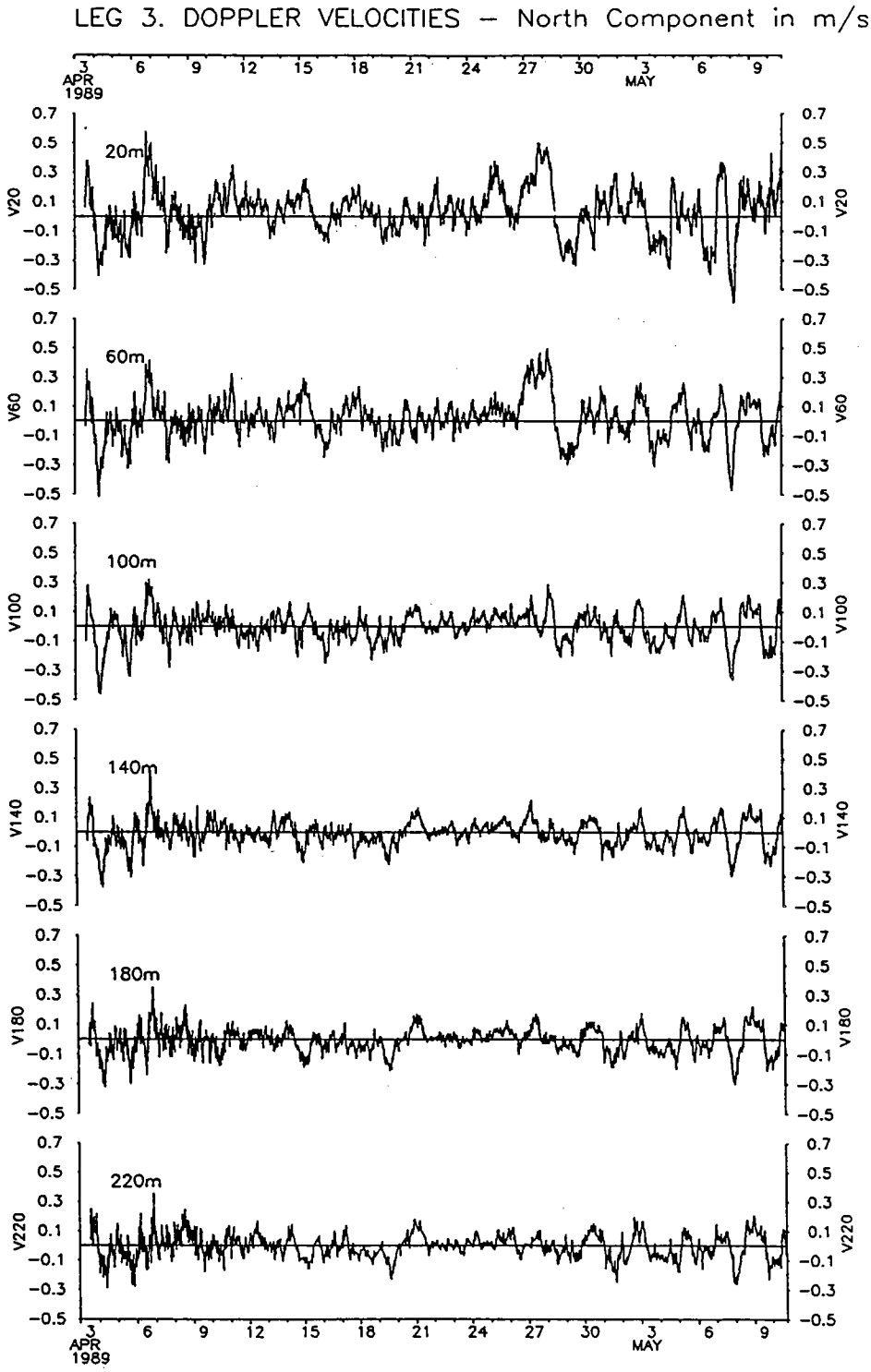


Figure 5a-7: Time series of east velocities measured by the ADCP at depths of 20, 60, 100, 140, 180 and 220m for leg 3.

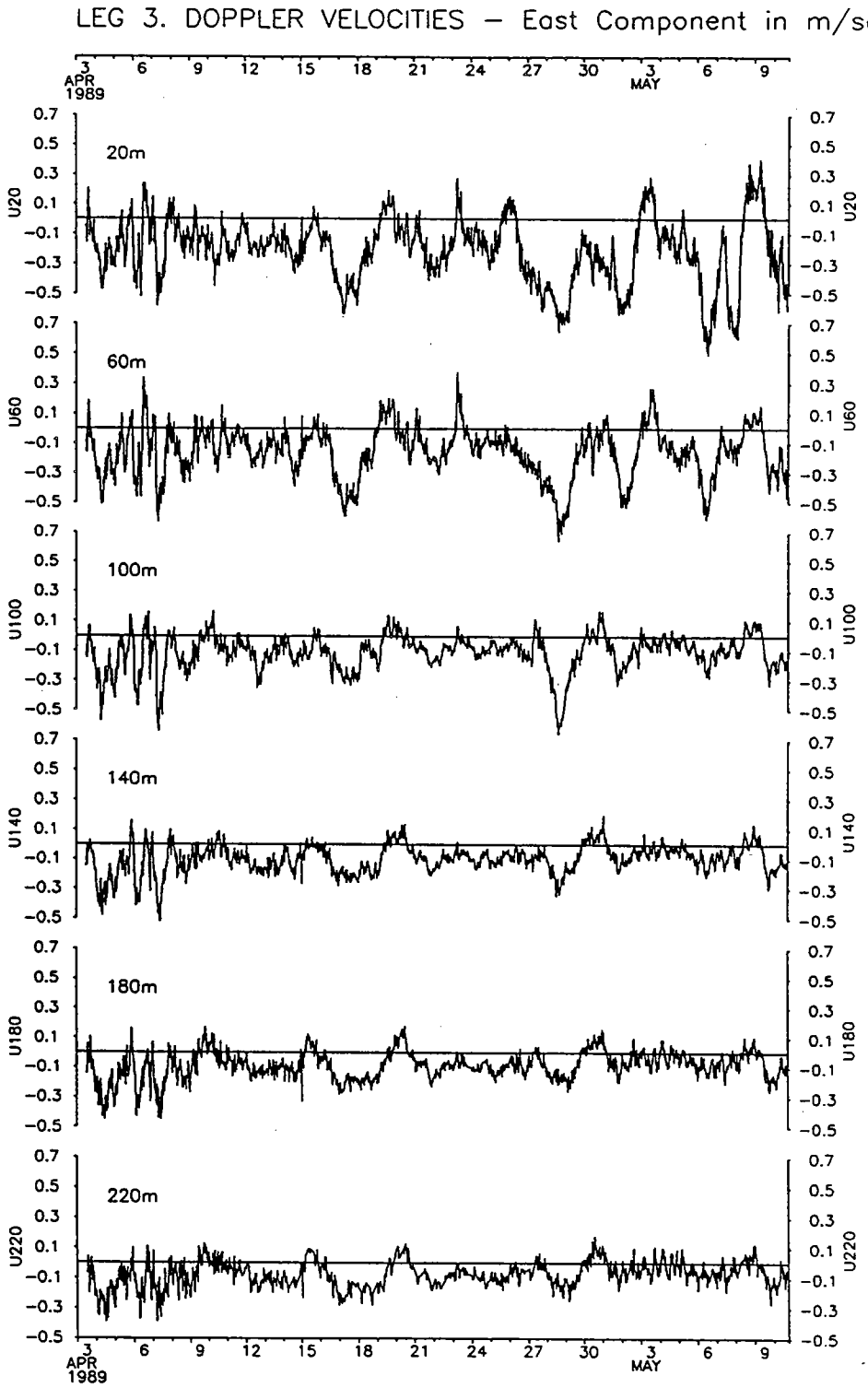


Table 5a-1: ADCP velocities averaged over 5° longitude bins for legs 1-3, north component.

Velocity means by 5° longitude sections along 10°N

Leg 1a: 127.6 E to 161.7 E; Leg 1b: 165.0 E to 171.3 E.
Leg 2: 171.3 E to 161.2 W.
Leg 3: 161.2 W to 85.75 W.

north component of velocity in cm/second

\ Depth Longitude	20m	60m	100m	140m	180m	220m	# 15 minute averages.
130 E /leg1a	11.3	30.3	24.5	20.3	10.8	5.5	241
135	8.2	4.6	1.6	3.4	-3.9	-3.2	278
140	6.5	4.6	0.3	-2.5	-1.4	1.9	254
145	2.3	0.1	-3.0	-1.7	1.4	-1.4	211
150	6.4	5.5	-1.7	-2.3	-1.7	-1.7	234
155	5.9	4.9	-3.5	-6.2	-1.5	-3.0	241
160	3.6	4.2	1.7	-9.7	-3.0	0.8	195
165 /leg1b	6.3	5.3	1.9	0.9	-0.6	-1.7	109
170 "	-9.2	-12.4	-9.5	-10.3	-8.9	-7.2	204
170/Leg 2	4.9	1.5	2.6	-3.8	-2.0	-1.6	80
175	10.0	4.9	0.0	3.8	0.7	2.5	225
180	2.8	0.0	1.7	-0.5	0.9	1.0	222
185 (175W)	9.0	7.1	-1.1	-1.3	-4.0	-1.6	223
190	5.7	3.4	6.8	-0.4	3.5	-0.2	197
195	1.3	-3.9	-4.2	0.0	-2.6	-3.4	194
200 (160W)	-15.8	-16.9	-6.8	-7.5	-11.3	-6.3	44
200/Leg 3	6.0	4.9	4.1	3.1	-1.9	0.6	164
205	6.9	0.6	-3.3	-1.8	0.9	1.7	218
210 (150W)	8.5	9.6	2.1	-0.1	-2.5	-2.5	218
215	1.2	0.0	-6.0	-3.0	-2.9	-1.8	210
220 (140W)	-0.4	-1.6	-5.2	-7.0	-6.5	-7.0	207
225	1.7	-0.8	2.2	3.6	4.1	4.9	210
230 (130W)	3.2	2.2	1.9	0.8	0.7	0.8	204
235	12.7	5.9	5.6	3.7	3.5	3.0	192
240 (120W)	27.4	28.5	7.7	3.7	3.0	0.1	192
245	-13.5	-11.1	-3.7	-1.9	-1.7	-0.9	178
250 (110W)	6.9	4.0	0.5	-3.4	-3.9	-3.7	177
255	3.4	0.8	-2.1	-0.5	-0.1	1.1	167
260 (100W)	-6.2	1.2	-2.6	-1.8	-2.3	-3.3	166
265	-6.0	-2.8	0.1	0.4	-0.4	-0.4	177
270 (90W)	-1.2	-0.5	-1.3	-0.6	0.3	0.5	176
275	11.6	-5.3	-5.5	-6.1	-5.6	-6.0	124

Table 5a-2: ADCP velocities averaged over 5° longitude bins for legs 1-3, east component.

Velocity means by 5° longitude sections along 10°N

Leg 1a: 127.6 E to 161.7 E; Leg 1b: 165.0 E to 171.3 E.
Leg 2: 171.3 E to 161.2 W.
Leg 3: 161.2 W to 85.75 W.

east component of velocity in cm/second

\ Depth longitude.	20m	60m	100m	140m	180m	220m	# 15 minute averages
130 E /leg1a	51.8	76.4	68.5	50.2	35.8	24.5	241
135	-17.0	-13.9	-12.6	-9.7	-5.6	-6.9	278
140	-21.6	-19.1	-19.6	-17.4	-6.7	-8.5	254
145	-19.3	-19.3	-20.0	-15.9	-15.0	-12.6	211
150	-20.5	-20.1	-16.2	-14.6	-8.0	1.3	234
155	-13.9	-12.0	-5.9	-11.2	-10.0	-7.4	241
160	-16.9	-17.2	-15.8	-14.0	-8.6	-5.2	195
165 /leg1b	-7.3	-6.8	-6.8	-0.8	1.9	-1.3	109
170 "	-13.2	-11.5	-10.1	-5.3	-4.9	-2.5	204
170/Leg 2	-17.5	-17.7	-10.1	-8.3	0	9.1	80
175	-4.3	-2.1	-11.3	-6.6	-5.4	-4.8	225
180	-21.5	-20.2	-16.4	-11.4	-7.6	-6.5	222
185 (175W)	-0.5	3.2	-4.5	2.2	2.5	0.8	223
190	-8.2	-7.3	-5.5	-6.4	-1.3	-2.8	197
195	-15.3	-12.4	-18.5	-7.4	-8.3	-9.7	194
200 (160W)	-23.6	-23.0	-12.3	-11.7	-11.0	-12.1	44
200/Leg 3	-19.1	-7.9	-4.0	-4.6	-0.2	-0.2	164
205	-14.9	-11.9	-12.8	-13.2	-10.4	-9.5	218
210 (150W)	-16.0	-12.5	-9.2	-8.3	-6.0	-5.7	218
215	-35.6	-31.0	-19.9	-15.9	-15.0	-13.9	210
220 (140W)	-8.5	-3.1	-4.3	-8.4	-9.6	-10.0	207
225	-19.1	-12.6	-9.0	-7.6	-5.9	-5.9	210
230 (130W)	-11.2	-5.2	-7.0	-8.5	-8.3	-7.6	204
235	-8.4	-9.6	-7.1	-8.4	-9.3	-9.3	192
240 (120W)	-43.5	-32.1	-14.6	-10.8	-8.6	-5.4	192
245	-40.4	-32.5	-23.8	-11.6	-9.6	-9.0	178
250 (110W)	-38.5	-17.7	-7.3	-2.5	-1.5	-0.3	177
255	-5.7	-5.9	-6.6	-5.2	-4.1	-3.2	167
260 (100W)	-15.4	-14.6	-3.7	-2.8	-1.6	-1.4	166
265	-46.1	-27.4	-12.7	-10.8	-9.2	-7.4	177
270 (90W)	-13.5	-2.4	-0.4	-1.0	-1.2	-0.4	176
275	-25.4	-25.1	-17.4	-14.8	-13.3	-10.9	124

5b. PRECISION AND ACCURACY OF WATER SAMPLE SALINITY AND OXYGEN MEASUREMENTS

by
G.P. Knapp, M.C. Stalcup and R.J. Stanley

A complete description of the dissolved oxygen and salinity measurement techniques used during this cruise is presented by Knapp et al. (1989). As described in this report, samples are collected for the analysis of dissolved oxygen and salinity from each of the 24 ten-liter Niskin (SIO) bottles tripped on the upcast of each CTD station. The vertical distribution of these samples was a compromise between the need to obtain deep samples for the calibration of the CTD conductivity and oxygen sensors and the requirement to define the characteristics of the water masses by the distributions of the various measured parameters.

Several analyses were performed on the water retrieved from each rosette bottle. Analysis samples were drawn from the rosette bottles in the sequence recommended by the World Ocean Circulation Experiment (WOCE) Hydrographic Program: CFC, Helium-Tritium, oxygen, nutrients, salinity. Several tests were performed during the cruise to assess possible degradation of oxygen samples collected from the overflow of the copper tubes used to collect the Helium-Tritium samples. No change was observed in oxygen samples collected in this manner. Each oxygen bottle was rinsed twice with sample water and then carefully filled to avoid aeration. Approximately 200 ml of the sample was permitted to overflow the bottle. One ml each of the $MnCl_2$ and NaI-NaOH reagents was immediately added to the seawater, and the sample bottle was capped and shaken vigorously. The salinity sample bottles and caps were rinsed three times with sample water before filling. An air space of approximately 8 cc was left in the bottle to allow for the expansion of cold samples. When all of the oxygen and salinity samples had been collected, they were placed in the constant temperature portable lab to equilibrate thermally and await analysis. About an hour after the oxygen samples were collected, they were shaken a second time to ensure complete oxidation of the precipitant.

Just before the oxygen samples were to be titrated, one ml of H_2SO_4 was added to each sample, followed by a second vigorous shaking to dissolve the precipitate and release iodine proportional to the dissolved oxygen originally in the sample. A 50 ml aliquot of the iodine solution from each bottle was titrated with 0.01 N sodium thiosulphate using an automated amperometric, dead-stop method controlled by a Metrohm Titroprocessor. The normality of the thiosulphate was determined regularly by comparison with a biiodate standard solution which has a normality of exactly 0.0100. The reagent blank value was also determined periodically.

SALINITY

Analysis of the salinity samples was not conducted until samples achieved laboratory temperature, generally about 3-4 hours after collection. Before each salinity bottle was opened it was thoroughly shaken to remove gradients. Both the filling tube and the sealing cork on the salinometer were carefully dried before each sample was measured to avoid contamination from the previous sample. The rate at which the air pump fills the conductivity cell with seawater is adjusted to ensure that the sample reaches bath temperature before the conductivity ratio is measured. The Guildline Autosal Model 8400-A salinometer was standardized with IAPSO Standard Sea Water (SSW) Batch P-97, and the zero reference and heater lamps were checked daily.

The salinometer manufacturer claims a precision of 0.0002 and an accuracy of 0.003 when the instrument is operated at a temperature within +4° and -2°C of ambient. They also note that, when measurements are made in a laboratory in which the temperature is constant (±1°C) and maintained about 1-2°C below that of the salinometer water bath, the accuracy is better than 0.001. All of the salinity measurements made during this cruise were made within a temperature controlled (±1°C) portable laboratory maintained about 2°C below that of the salinometer water bath (set to 24°C).

Mantyla (1987) has found that the conductivity ratio of some batches of standard water appears to change as they age. The batch used during this cruise (P-97) is dated 3/3/1983 and, because of concern over the aging problem identified by Mantyla, has been routinely compared with fresher batches for the past several years. These comparisons show that the conductivity ratio of P-97 has not changed since it was bottled. He also notes that P-97 is slightly fresher than the PSS78 KCl standard. Based on his work a correction of +0.0008 has been applied to all of the salinities measured during this cruise.

Table 5b-1 shows the results of salinity measurements made during the cruise from 43 duplicate samples collected at different stations from each of two 10 liter Niskin bottles tripped at the same depth. The standard deviation of the differences in salinity measured from these samples is 0.0010.

Figure 5b-1a shows water sample salinities interpolated at potential temperatures of 1.0°, 1.2°, 1.4°, 1.6°, 1.8° and 2.0°C plotted versus longitude. A least squares line has been fitted to the data at each temperature. The salinity increases toward the east at an average rate of about 0.00014 per degree of longitude at all but the coldest temperature. The standard deviation and the coefficients of variation of the differences between these lines and the data are presented in Table 5b-2. The values plotted in Figure 5b-1a and the differences presented in this table include the effects of linear interpolations between observations above and

below each potential temperature, the effects of oceanic variability, and errors introduced during the sampling and analysis of the salinity samples. In order to assess the accuracy of the salinity measurements better, data were selected from a region where the (oceanic) variability was low. In both Figures 5b-1a and 5b-1b the measurements made between 110° and 150°W at potential temper- atures of 1.6° and 1.8° show reduced variability. These data are presented in Figures 5b-1f and 5b-1g where least squares lines have been fitted to the data at each potential temperature. Although the non-random character of the small scale variability in this figure might suggest that the variability was due to systematic measurement errors, the 16 daily standardizations of the salino- meter during this part of the cruise revealed no measureable drift. In addition the salinometer "standby" number was recorded at each station. This reading indicates whether the standardize control setting has been changed or if the electronics have drifted during the course of the measurements. The standard deviation of this value during this part of the cruise is equivalent to a change in salinity of 0.00017. Thus the non-random changes in the salinities shown in Figure 5b-1f are most likely the result of small and somewhat regular variations in the deep salinity along the cruise track. The standard deviation of the differences between these salinity data and a least squares line is 0.0010. This value includes the variation due to oceanic variablity and errors introduced during the interpolation procedure as well as problems with sampling and analysis. We interpret these data to indicate that the accuracy of the salinities measured during Moana Wave 89-3 is probably better than ±0.001.

OXYGEN

All of the dissolved oxygen samples measured during this cruise were analysed with an automated Winkler titration system described by Knapp et.al (1989). On two separate occasions 13 duplicate dissolved oxygen samples were collected from a single 10 liter Niskin bottle and titrated to assess the precision of the dissolved oxygen measurements. The standard deviations of the two tests were 0.005 and 0.007 ml/l and indicates the precision of the oxygen measurements is about 0.1%. Table 5b-1 shows the results from the measurement of replicate samples collected from separate Niskin bottles tripped at the same depth at 21 different stations and indicates a precision of 0.015 ml/l or about 0.2%. Figure 5b-1b shows dissolved oxygen values interpolated at potential temperatures of 1.0°, 1.2°, 1.4°, 1.6°, 1.8° and 2.0°C at each of the stations with a least squares fit to the data at each temperature. Table 5b-2 presents the standard deviations and coefficients of variation for the differences between the interpolated oxygen data and the least squares lines. Figure 5b-1g is for the same stations shown in Figure 5b-1f and depicts oxygen values interpolated at potential temperatures of 1.6° and 1.8°C together with least squares lines fit to the data between 150°W and

110°W, in a region of reduced oceanic variability. The standard deviation of the differences between these lines and the data at potential temperatures of 1.6° and 1.8°C is 0.8 and 0.019 and 0.028 ml/l respectively. Using the same assumptions regarding oceanic variability that were made for the salinity measurements, these data indicate that the accuracy of the oxygen measurements made during this cruise is likely better than 1%.

Table 5b-1. Samples were collected from two 10 liter Niskin bottles which were tripped at the same depth at 21 stations. The differences between the salinity and oxygen measurements made on these duplicate samples are shown. The standard deviation of the salinity and oxygen differences are respectively, 0.0010 PSU and 0.015 ml/l.

		Differences				Differences	
Sta #	Bottle #	Salt PSS78	Oxy. ml/l	Sta #	Bottle #	Salt PSS78	Oxy ml/l
36	4,5	0.001	0.01	64	6,7	0.001	0.02
38	4,5	0.001	0.01	64	11,12	0.000	0.02
47	4,5	0.000	0.03	65	7,8	0.000	0.00
50	1,2	0.000	0.01	65	9,10	0.002	0.01
50	4,5	0.001	0.02	65	18,19	0.000	0.02
51	4,5	0.000	0.02	66	16,17	0.002	0.01
52	1,2	0.001	0.01	66	18,19	0.001	0.01
52	4,5	0.000	0.00	66	20,21	0.002	0.06
53	2,3	0.001	0.00	67	18,19	0.000	0.04
53	4,5	0.000	0.01	67	21,22	0.001	0.01
54	1,2	0.000	0.02	68	16,17	0.002	0.00
58	4,5	0.000	0.00	69	14,15	0.000	0.01
58	8,9	0.003	0.00	69	16,17	0.003	0.01
59	4,5	0.002	0.00	69	18,19	0.002	0.02
59	8,9	0.000	0.02	69	20,21	0.001	0.05
61	13,14	0.000	0.02	70	15,16	0.002	0.01
62	7,8	0.001	0.00	70	17,18	0.003	0.01
62	9,10	0.000	0.00	70	19,20	0.000	0.02
62	11,12	0.000	0.01	70	22,23	0.001	0.06
62	17,18	0.000	0.01	71	14,15	0.002	0.00
63	13-14	0.000	0.03	71	20,21	0.000	0.04
63	19,20	0.003	0.02				

Table 5b-2. Pressure, salinity, oxygen and nutrient values were interpolated at six potential temperatures for all of the stations. A least squares fit was made to the data on each potential temperature surface and the differences were calculated. These differences were used to determine the standard deviation and the coefficient of variation (standard deviation / average * 100) for each variable. The two sub-tables labeled "Stations between 110° and 150°W" were calculated as described above and show the standard deviations and coefficents of variation at theta equals 1.6° and 1.8°C. The data used in these calculations are shown in Figures 5b-1f and 1g and were selected from a region where the oceanic variability appears to be low in order to assess better the accuracy of the salinity and oxygen measurements made during this cruise.

STANDARD DEVIATION OF WATER SAMPLE DATA

	Theta C	Pts	Press db	Salnty	Oxygen ml/l	Silcat µM/l	Phspht µM/l	Nitrat µM/l
MW	1.0	65	202	0.0017	0.039	1.2841	0.0292	0.2687
MW	1.2	133	111	0.0014	0.034	1.6349	0.0353	0.2787
MW	1.4	171	71	0.0015	0.039	1.7089	0.0339	0.3062
MW	1.6	193	114	0.0017	0.044	1.8516	0.0337	0.3427
MW	1.8	206	53	0.0016	0.046	1.5895	0.0338	0.3720
MW	2.0	207	65	0.0015	0.052	1.4664	0.0353	0.4065

Stations between 110° and 150°W

MW	1.6	43	34	0.0010	0.019
MW	1.8	43	40	0.0010	0.028

COEFFICIENT OF VARIATION OF WATER SAMPLE DATA

	Theta	Pts	Press	Salnty	Oxygen	Silcat	Phspht	Nitrat
MW	1.0	65	4.613	0.005	0.968	0.916	1.179	0.749
MW	1.2	133	3.000	0.004	0.976	1.080	1.361	0.743
MW	1.4	171	2.295	0.004	1.256	1.104	1.264	0.793
MW	1.6	193	4.192	0.005	1.566	1.193	1.225	0.871
MW	1.8	206	2.276	0.005	1.792	1.040	1.204	0.931
MW	2.0	207	3.126	0.004	2.162	0.983	1.238	1.005

Stations between 110° and 150°W

MW	1.6	43	1.27	0.002	0.708
MW	1.8	43	1.72	0.003	1.147

Figures 5b-1a to 5b-1e. Salinity, oxygen, silica, nitrate and phosphate values were interpolated at six potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C, the stars are at 1.6°C, the pluses are at 1.8°C and triangles are at 2.0 °C. Least-squares lines, fit to the data versus longitude on each potential temperature surface, show the east-west trend of the variables. To avoid over-plotting the data, only the three deepest surfaces are shown in the nutrient plots.

Figures 5b-1f and 5b-1g. Salinity and oxygen values interpolated at potential temperatures of 1.6° and 1.8°C from data collected between 148° and 110°W where the oceanic varibility is low. These data were selected to assess the accuracy of the salinity and oxygen measurements made during this cruise. The standard deviations and coefficients of variation of the differences between a least-squares linear fit to the data are shown in Table 5b-2.

Figure 5b-1a: Salinity values interpolated at six potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C, the stars are at 1.6°C, the pluses are at 1.8°C, and triangles are at 2.0 °C.

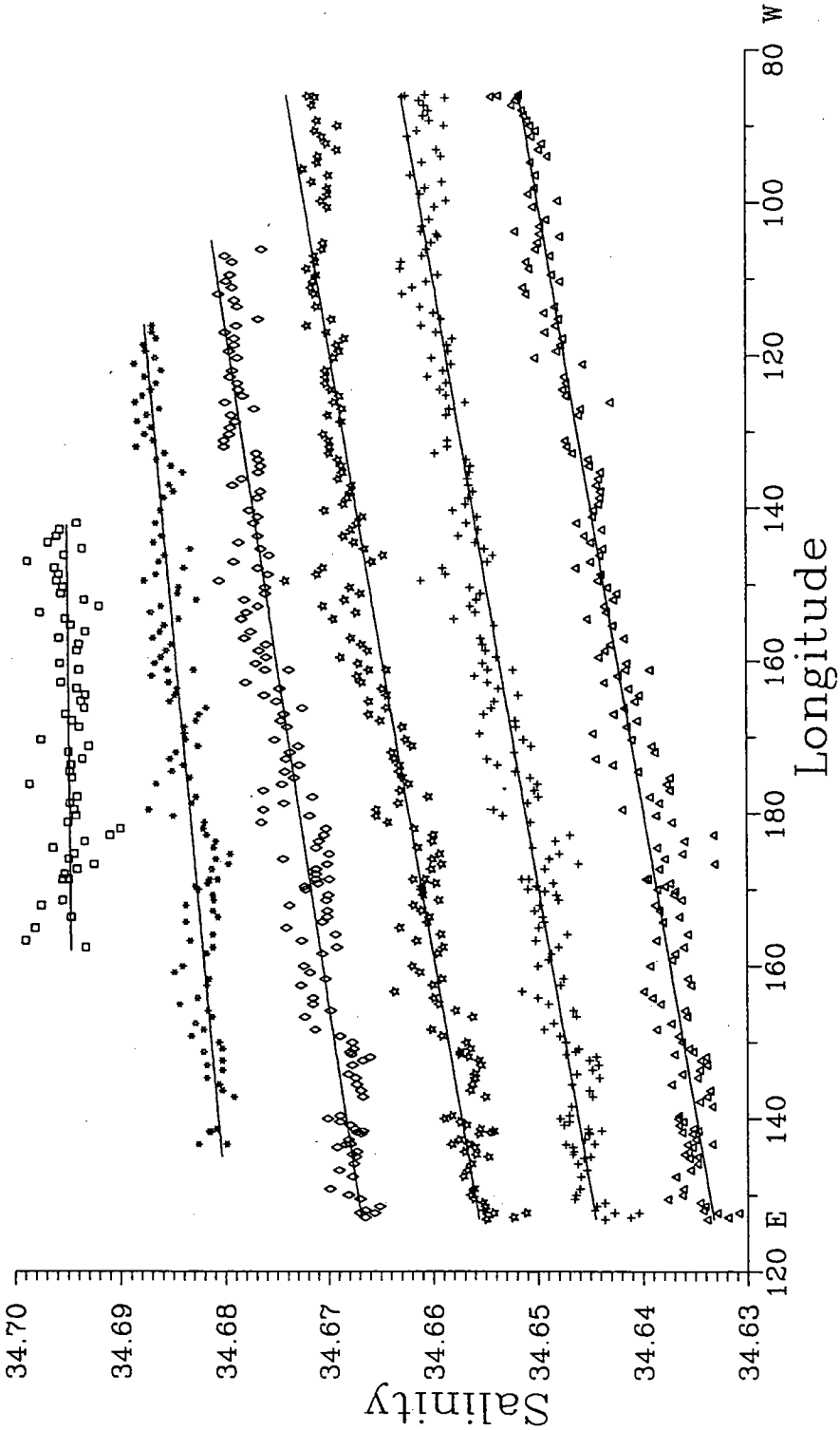


Figure 5b-1b: Oxygen values interpolated at six potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C, the stars are at 1.6°C, the pluses are at 1.8°C and triangles are at 2.0 °C.

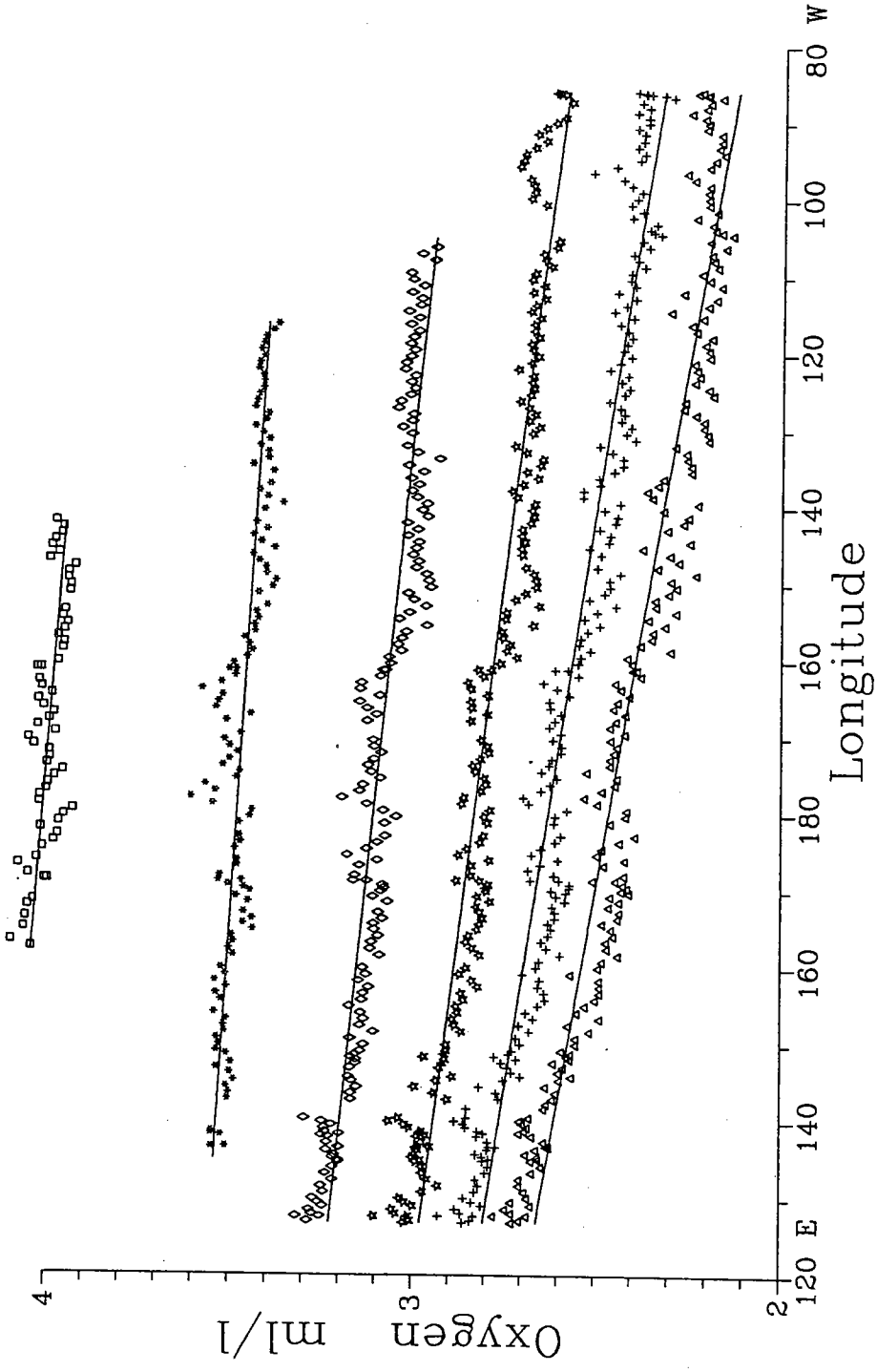


Figure 5b-1c: Silica values interpolated at three potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C.

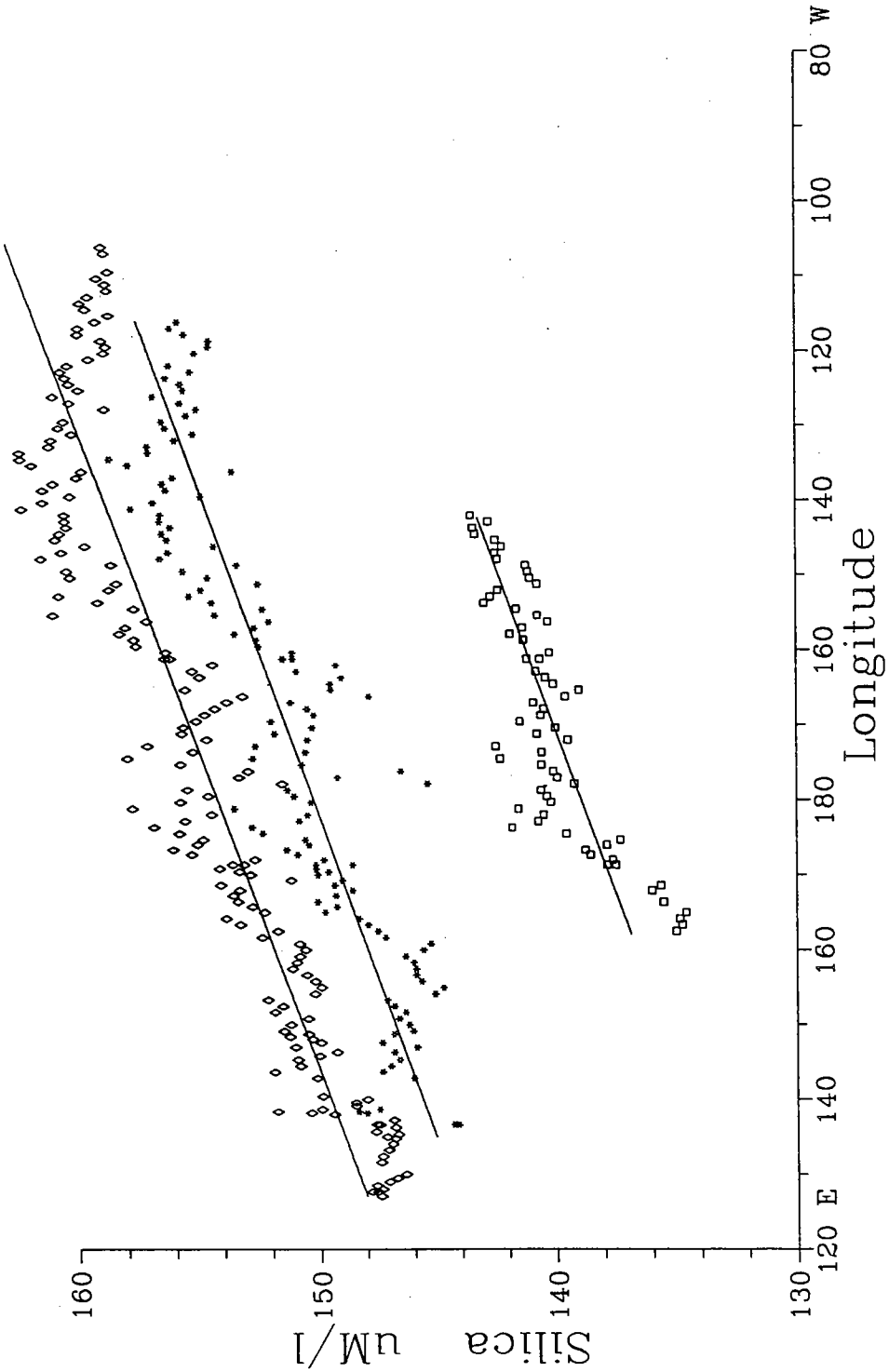


Figure 5b-1d: Nitrate values interpolated at three potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C.

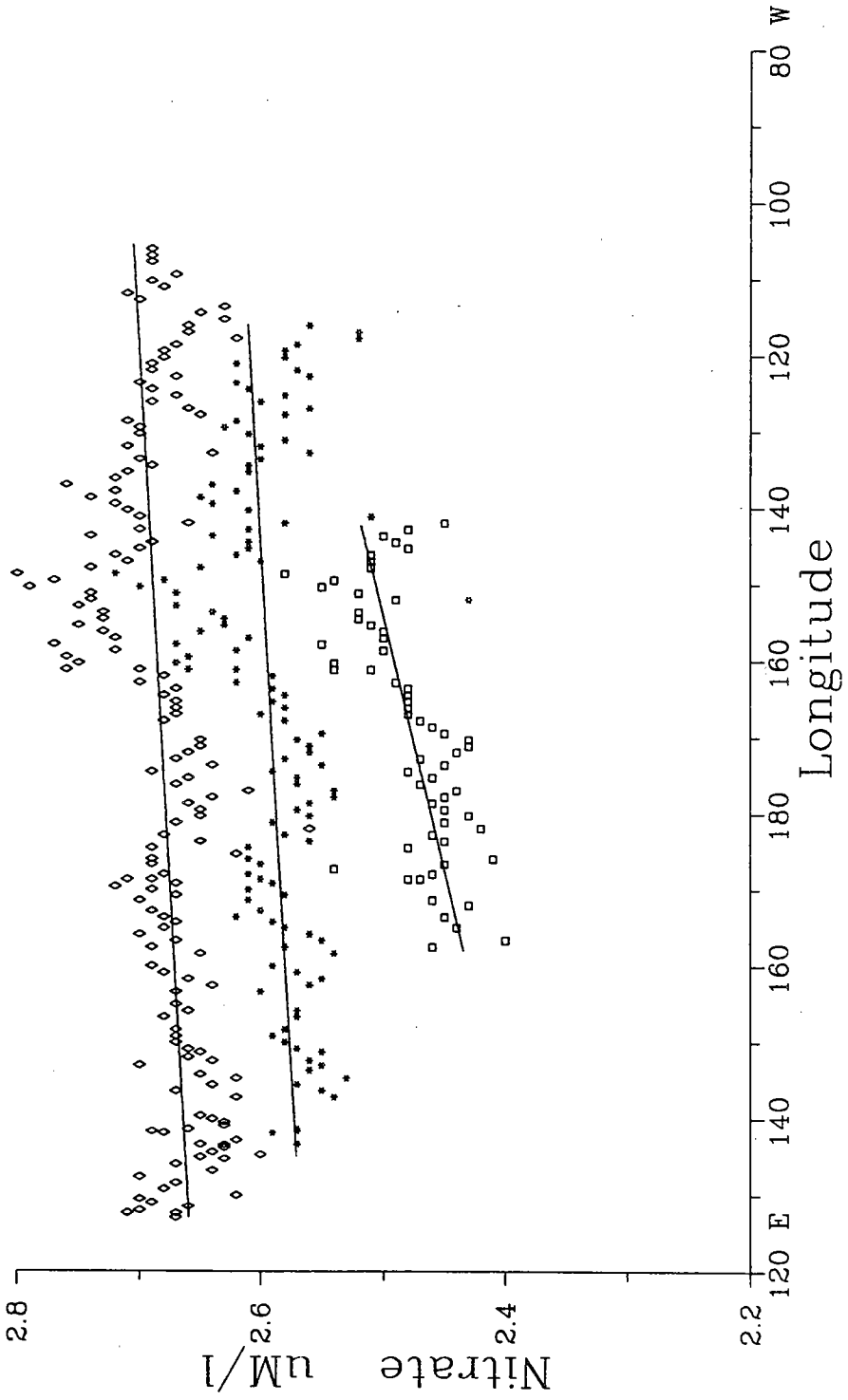


Figure 5b-1e: Phosphate values interpolated at three potential temperatures for all of the stations occupied during Moana Wave 89-3. The square symbols are at theta = 1.0°C, the asterisks are at 1.2°C, the diamonds are 1.4°C.

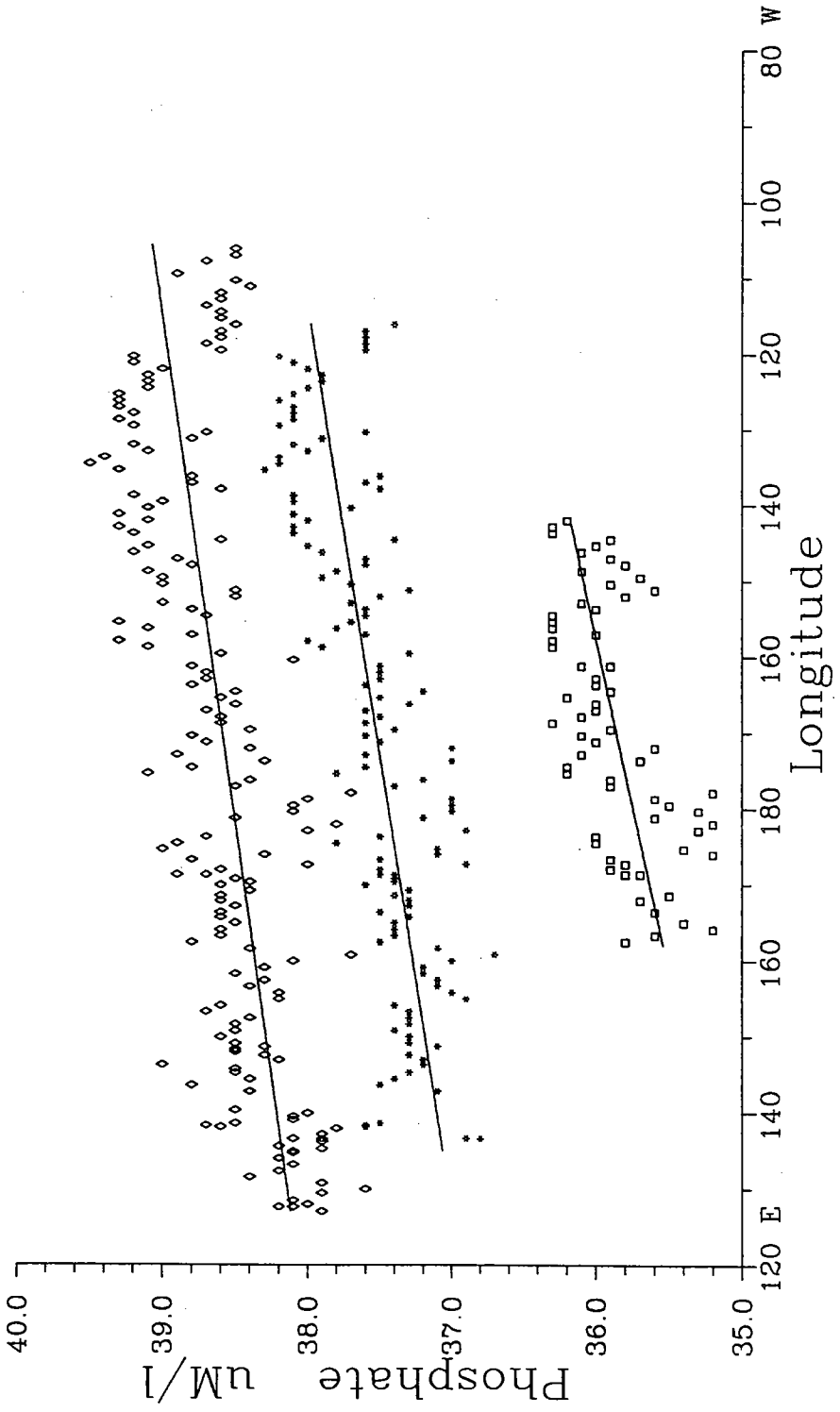


Figure 5b-1f: Salinity values interpolated at potential temperatures of 1.6° and 1.8°C from data collected between 148° and 110°W where the oceanic varibility is low.

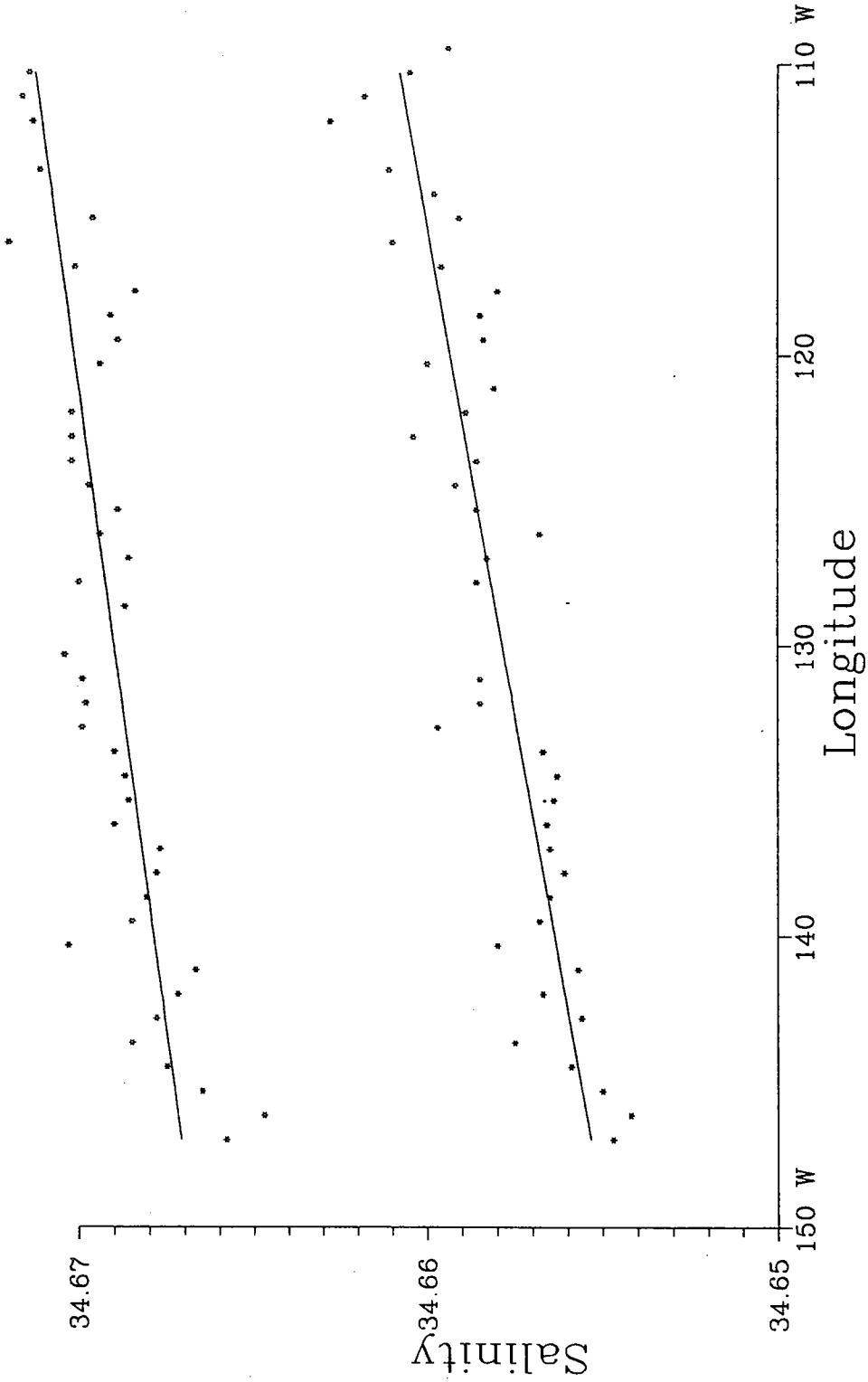
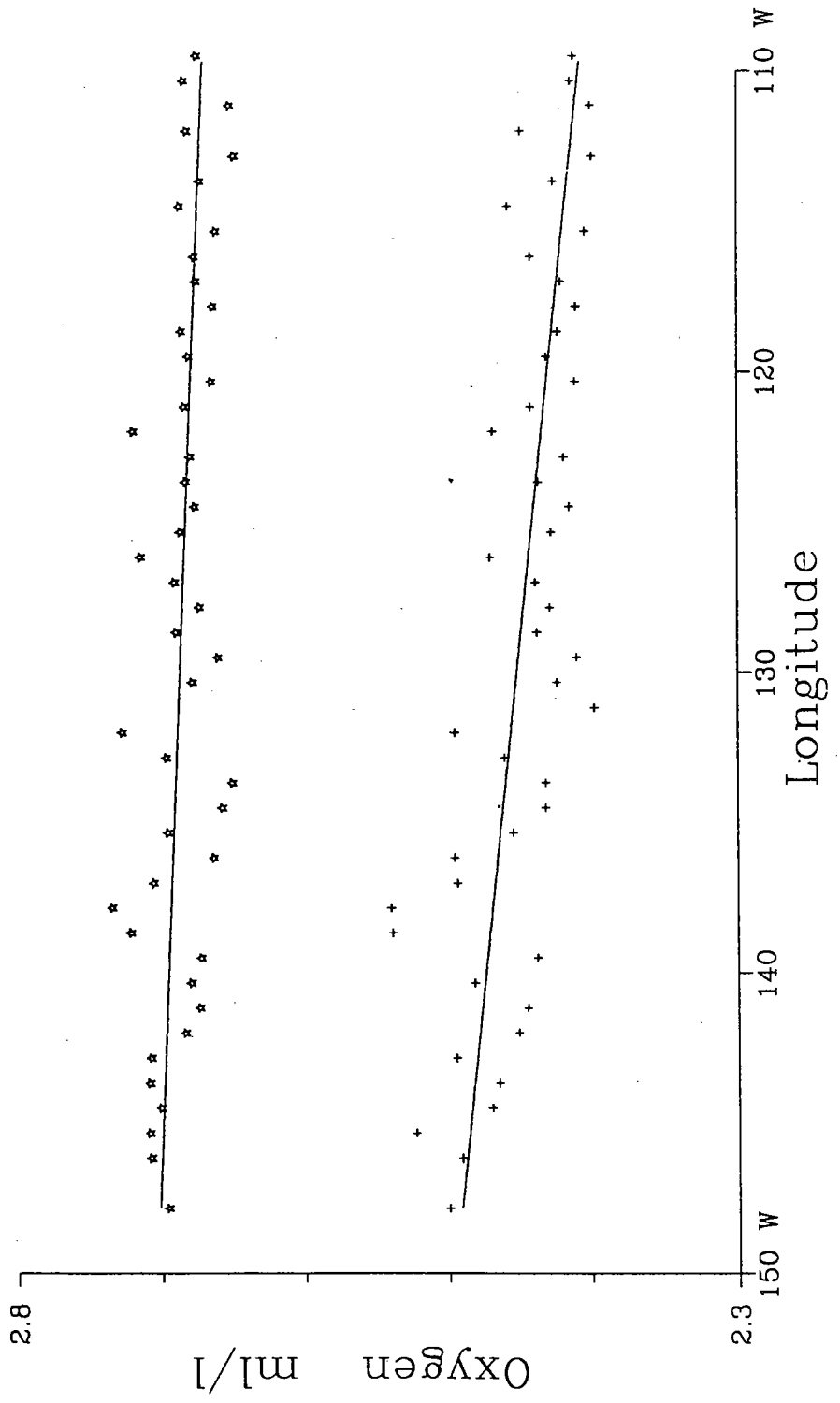


Figure 5b-1g: Oxygen values interpolated at potential temperatures of 1.6° and 1.8°C from data collected between 148° and 110°W where the oceanic varibility is low.



5c. CTD MEASUREMENTS

by
C. MacMurray and J. Toole

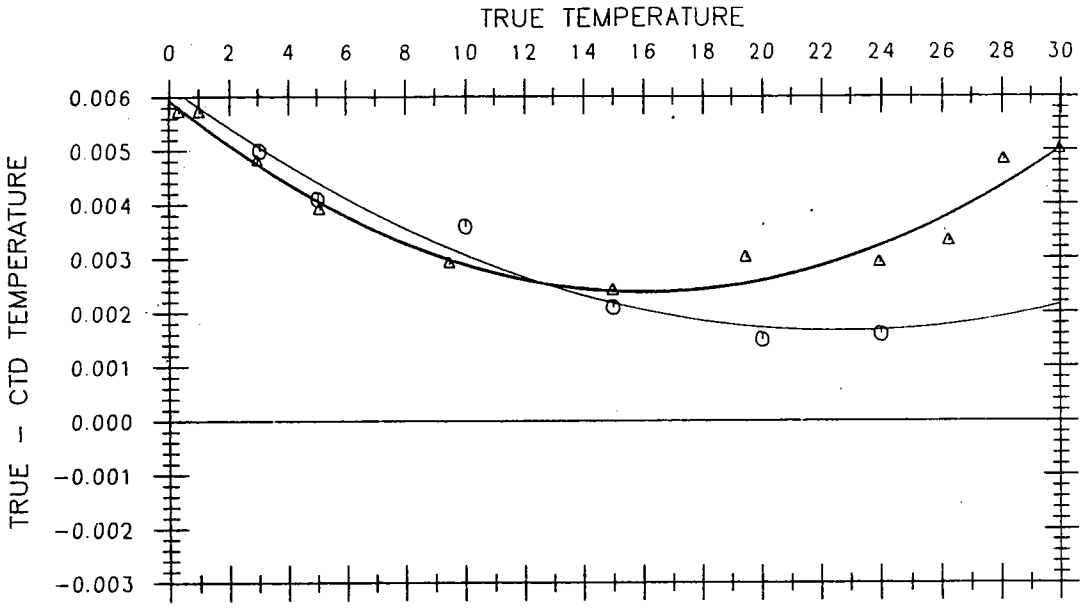
The NBIS CTD/O_2 instrument is equipped with sensors to measure pressure, and sea water temperature, conductivity and dissolved oxygen concentration. The ultimate accuracy of the reduced data set hinges on the calibration of these sensors. Both laboratory measurements and water sample data obtained at sea are used to determine the sensor calibrations. General information on CTD calibration methodology and data processing procedures can be found in the reports of Fofonoff, Hayes, and Millard (1974) and Millard and Galbraith (1982).

Temperature and pressure data

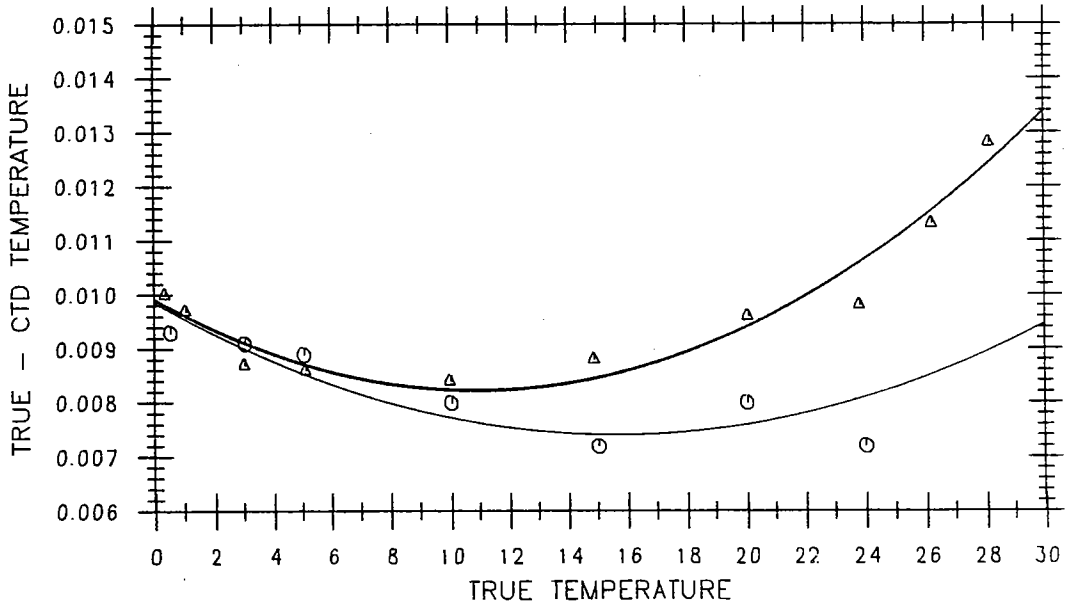
Laboratory calibrations, performed before and after the 10°N cruise, provide the sole correction information for the CTD pressure and temperature sensors. Note that temperature and pressure calibrations are used to scale the data profiles as well as the CTD component of the rosette water sample data files. Laboratory temperature calibrations of CTD #9 at the WHOI calibration facility before and after the cruise showed a change of .0004° at 0°C and .0026° at 24°C (instrument reported colder in time). Pre- to post-cruise differences were even less for CTD #8, .0003° at 0°C and .0014° at 24°C (instrument reported colder at 24°C in post-cruise calibration but warmer at 0°C). Due to tight shipping schedules, there was not much time to perform a careful check of CTD #10 prior to leg 3. The pre-cruise calibration for CTD #10 was hurried, and we do not give it much credibility. Nevertheless, the observed pre-to-post cruise temperature shift at 0°C was only on the order of one half a millidegree. Based on these results, we believe the relative accuracy of the temperatures reported here, on the IPTS-68 temperature scale, is on the order of 2 m°C. As absolute accuracy of the temperature data involves calibration and stability of the laboratory transfer standard and the homogeneity of the calibration bath, the 10°N absolute temperature data is probably uncertain by 3-4 m°C.

No electronic adjustments were made to the temperature sensor interface boards during laboratory calibrations in order to preserve a long standing history on the stability of these sensors. Instead, corrections, determined by polynomial least-squares fits to the laboratory calibration data, were applied to the data. Temperature calibrations consisted of quadratic fits to 8-11 temperature points ranging between 0° and 30°C in reference to a platinum thermometer standard, Figure 5c-1. The following temperature correction algorithms were used in the reduction of CTD downcast and water sample rosette data collected on the 10°N transpacific cruise.

Figure 5c-1: Temperature calibrations with 8-11 temperature points ranging between 0° and 30°C in reference to a platinum thermometer standard.



CTD8 cals dec88 jun89



CTD9 cals dec88 jun89

CTD#8 $T = .593955E-2 + (.499779E-3)*T_{raw} + (.343056E-11) *T^2_{raw}$
(Post-cruise)
where T_{raw} is the raw counts of the temperature channel. For CTD #8, a time lag correction of 0.250 seconds between C and T sensors (deduced during the cruise) was also made.

CTD#9 $T = .953261E-2 + (.499906E-3) * T_{raw} + (.104558E-11) * T^2_{raw}$
(Pre-cruise)
Data from CTD #9 were corrected for a time-lag of .15 seconds.

CTD#10 $T = .784017E-3 + (.499702E-3) * T_{raw} + (.432617E-11) * T^2_{raw}$
(Post-cruise)
Data from CTD #10 were corrected for a time-lag of .25 seconds.

Pressure calibrations were done using a dead-weight tester; data were sampled at 1000 psi intervals with both increasing and decreasing pressure between 0 and 10000 psi. Data reduction employed a cubic calibration algorithm determined from a least squares fit to these data, Figure 5c-2. The pressure bias term applied to each CTD cast was determined by the pre-lowering deck unit pressure reading (du). The following downcast (0-6000 db range) pressure calibration algorithm was applied to the CTD #9 profiles.

CTD#9 $P = - (du) + (.998880E-1)P_{raw} + (.113246E-7)P^2_{raw} - (.169297E-12)P^3_{raw}$
(Pre-cruise)

where P_{raw} is the raw counts of the pressure channel.

Final pressure data obtained with CTD #8 and CTD #10 contain empirical corrections which were applied to rectify a discrepancy between water sample and CTD derived salinity data. This correction is explained more fully below in the discussion of conductivity calibration. The downcast pressure calibration algorithm applied to CTD #8 data was:

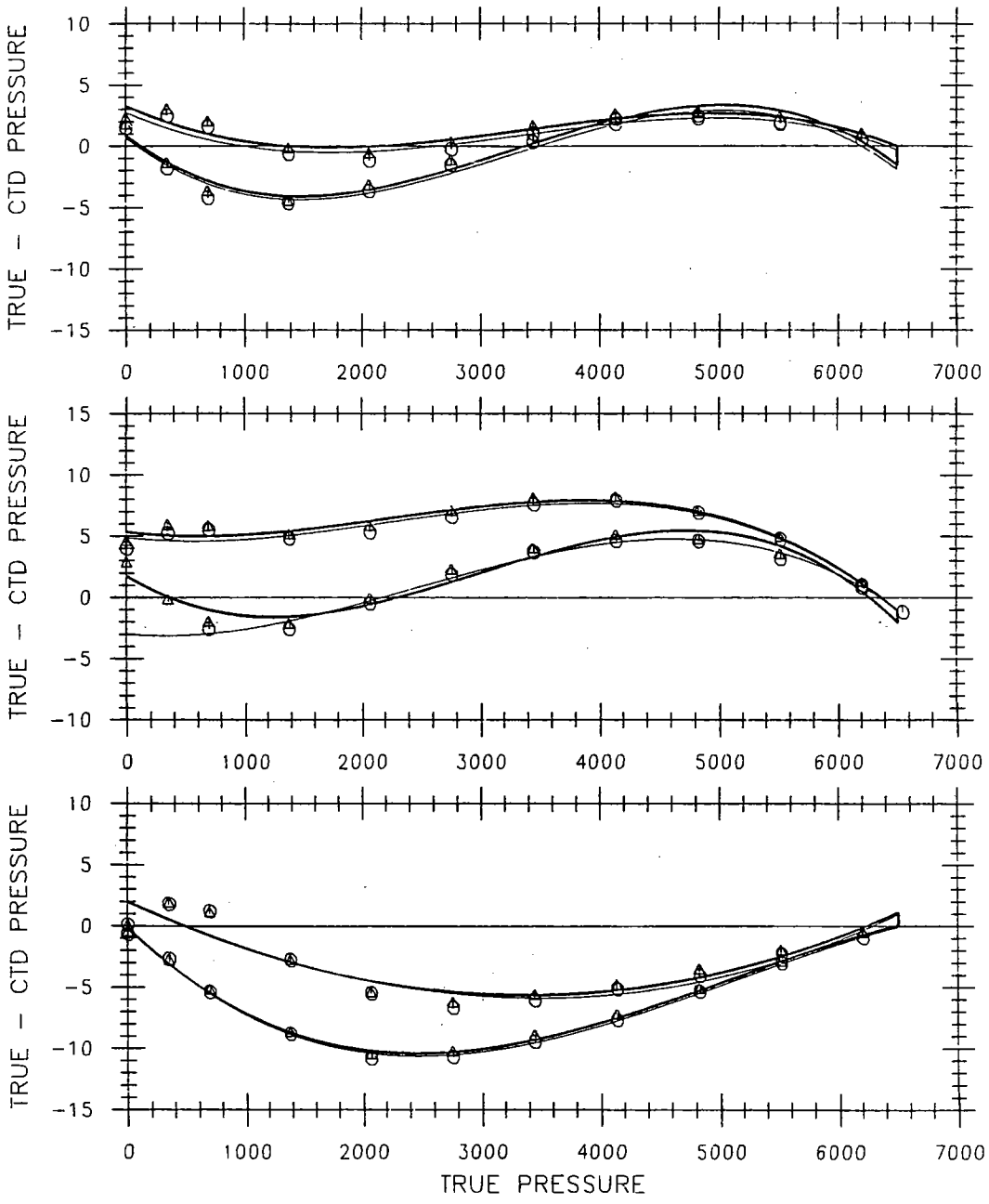
CTD#8 $P = - (du) + (.100459)P_{raw} - (.147732E-7)P^2_{raw} + (.118881E-12)P^3_{raw}$
(Post-cruise plus empirical correction)

The downcast calibration algorithm for instrument #10 pressure data was:

CTD#10 $P = - (du) + (.983410E-1)P_{raw} + (.628596E-7)P^2_{raw} - (.633079E-12)^3_{raw}$
(Post-cruise plus empirical correction)

In similar fashion, cubic calibration curves were constructed from the decreasing pressure (upcast) laboratory calibration data. A weighted combination of the pre-cruise downcast and upcast

Figure 5c-2: Pressure calibrations employed a cubic calibration algorithm determined from a least squares fit.



pressure calibrations were then applied to the CTD component of the rosette water sample data. The effect of this scaling is to force the down and up pressure calibration curves to be continuous at the bottom of the cast; the algorithm is:

$$P = (1-W)*P_{up} + W*P_{dn}$$

with P_{up} and P_{dn} being the results of the upcast and downcast calibration algorithms. The P_{up} calibration algorithms for each instrument are:

CTD9 $P_{up} = -.299188E1 + (.999125E-1)P_{raw} + (.146870E-7)P^2_{raw} - (.197944E-12)P^3_{raw}$
(Pre-cruise)

CTD8 $P_{up} = .869254E0 + (.992531E-1)P_{raw} + (.327062E-7)P^2_{raw} - (.335345E-12)P^3_{raw}$
(Post-cruise)

CTD10 $P_{up} = -.218008E0 + (.990681E-1)P_{raw} + (.251184E-7)P^2_{raw} - (.164667E-12)P^3_{raw}$
(Post-cruise)

The weighting, W, is given by:

$$W = \exp \frac{(P - P_{bottom})}{300 \text{ db}}$$

P_{bottom} is the maximum pressure of the cast. The scale depth of 300 db was established from laboratory calibration data in which the CTD was cycled from 0 to 5000 psi.

Conductivity data

Linear conductivity calibration algorithms, derived from pre-cruise laboratory data, were used to generate CTD data acquisition display plots. The algorithms employed were:

CTD #8: $C = -.166747E-1 + (.100159E-2) * C_{raw} * [1+A*(T-T0)+B*(P-P0)]$

CTD #9: $C = .396792E-2 + (.999569E-3) * C_{raw} * [1+A*(T-T0)+B*(P-P0)]$

CTD #10: $C = -.286030E-2 + (.100004E-2) * C_{raw} * [1+A*(T-T0)+B*(P-P0)]$

where:

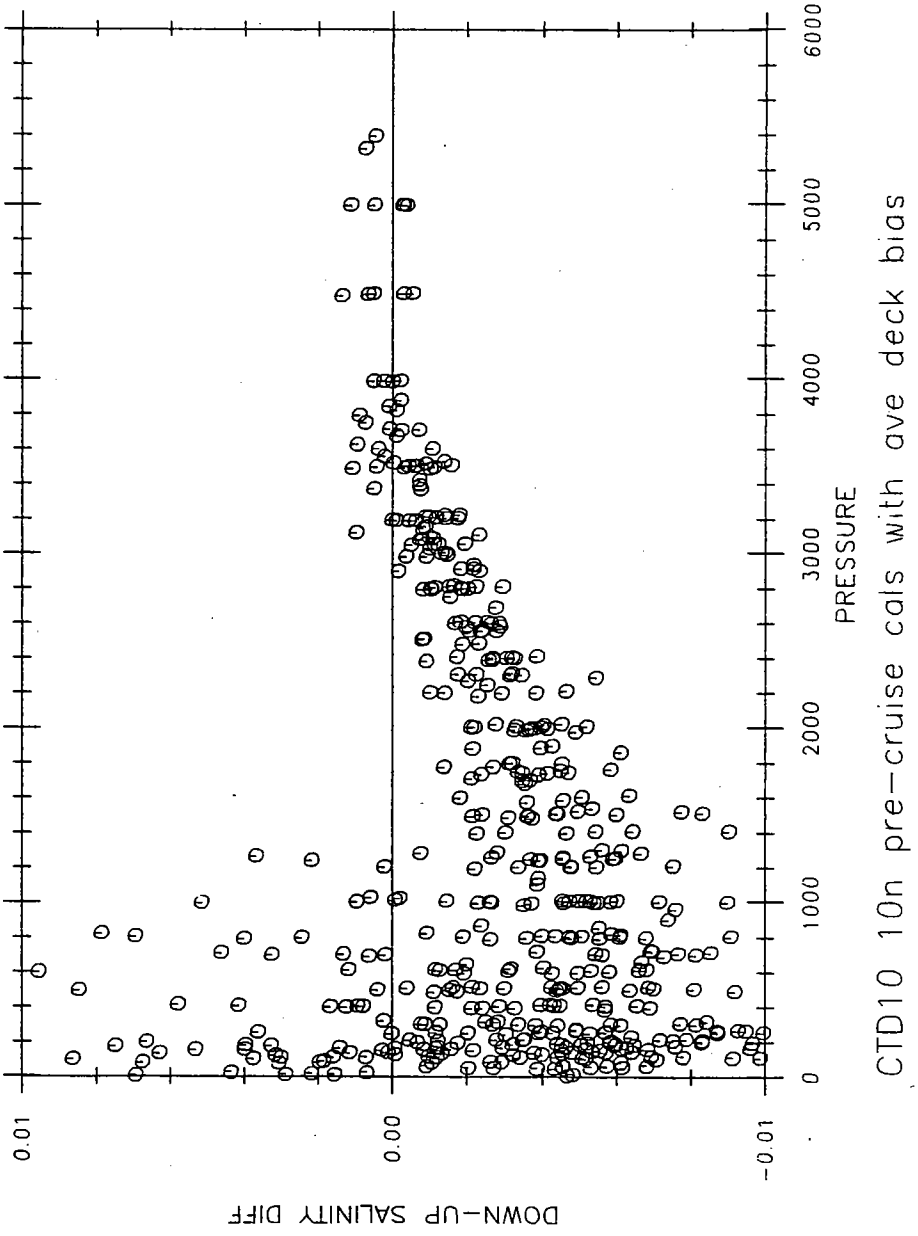
- C_{raw} is the raw counts of the conductivity channel;
- A is the temperature correction coefficient ($-.65E-5\ ^\circ C^{-1}$)
- B is the coefficient of cell contraction with pressure ($1.5E-8\ db^{-1}$)
- T is scaled temperature
- T0 is 2.8 °C
- P is scaled pressure
- P0 is 3000 db

Final conductivity calibrations were derived from a least-squares regression of CTD and water sample conductivity data to determine the slope and bias terms in the above algorithms (Millard and Galbraith, 1982). As CTD #9 was employed for the bulk of the stations on the 10°N cruise, its conductivity calibration was addressed first. The regression routine for estimating conductivity bias and slope adjustments was initially run over all CTD #9 water sample data using the nominal A and B cell deformation coefficients in the above equation. Time series plots of water sample - CTD conductivity differences were then constructed to identify station subgroups in which the CTD conductivity cell appeared stable in time, or drifted linearly in time. Expanded-scale potential temperature/salinity plots were also used to confirm the groupings. Careful examination of the deep-water temperature/salinity information revealed a subtle salinity departure (order .001) of the CTD trace from the water sample data. This discrepancy was minimized by setting the coefficient of cell deformation with pressure (B in the equation) to zero (as was done for a previously analyzed data set collected with CTD #9 by Cook et al., 1991). We have no explanation for why CTD #9's conductivity data is nonstandard. Table 5c-1 presents the coefficients of the CTD #9 conductivity correction algorithm used to produce the final data.

Derivation of conductivity calibration algorithms for data acquired with CTD instruments 8 and 10 proved significantly more difficult. Correction algorithms, defined from regressions between upcast CTD measurements and water sample observations, when applied to downcast CTD data resulted in CTD salinity data that was inconsistent with the water sample salinity observations. CTD and water sample salinity data diverged with increasing temperature on potential temperature-salinity diagrams; the discrepancy was greatest at the salinity minimum level around potential temperature 6.0°C where CTD-bottle salinity differences were on order .005-.0067. The error was ultimately traced to residual hysteresis in the pressure data (see below). The magnitude of the salinity error associated with this problem was quantified by estimating the salinity differences between CTD downcast and upcast at selected temperature surfaces. If the ocean temperature/salinity relationship was steady in the time interval between down and up, there should be no difference in the two CTD salinity values. Figure 5c-3 shows that there were measureable salinity differences between the down- and upcasts.

After much thought, it was concluded that the salinity error was caused by error in the pressure data. The nominal sensitivity of the derived salinity on pressure is 0.001 per 2.5 db (Fofonoff and Millard, 1983). The observed salinity errors are indicative of pressure errors of order 10-15 db. However, the static pressure calibrations, performed at the WHOI Calibation Facility in 1989, are believed accurate to .1% or 6 decibars (G. Bond, personal communication, 1991). The standard NBIS CTD pressure sensor can be

Figure 5c-3: Salinity differences between the down- and upcasts *vs* pressure.



sensitive to thermal transients of this magnitude when the time response of the pressure gauge and its associated thermistor collar (Brown and Morrison, 1978) are mismatched. Laboratory thermal shock tests, performed after the cruise, revealed pressure errors in the correct sense to explain the 10°N salinity error.

We derived empirical pressure correction algorithms to account for the pressure sensor error. The algorithm applied to the downcast data consisted of an adjustment to the laboratory derived cubic correction equation discussed above. The adjustment varied linearly with decreasing pressure (as suggested by the salinity difference data of Figure 5c-3) from zero adjustment at 5000 db to order 10 db adjustment at 1000 db. At shallower levels the pressure adjustment returned smoothly to zero value at the surface. The adjusted correction algorithms are reported above. No adjustment was made to the upcast data as it was argued that, apart from the upper few hundred meters of the water column, the CTD experiences no strong thermal transients, and so should accurately report its pressure.

Determination of the coefficients in the conductivity correction algorithm for CTD #8 and #10 data then proceeded straightforwardly as for CTD #9 data. Conductivity was fit over all stations for each of these instruments. No subgrouping or drifting was apparent. Table 5c-1 presents the bias and slope values used to produce the final data.

Table 5c-1: Bias and slope coefficients of the conductivity correction algorithm applied to the 10N CTD data.

Sta #	Ctd	Bias	Slope	Sta #	Ctd	Bias	Slope
3-7,9-15	8	-.26691994E-1	.10018587E-2	159		.16260127E-1	.99907210E-3
16		-.26691994E-1	.10018866E-2	160		.16260127E-1	.99907932E-3
17-26		-.26691994E-1	.10018587E-2	161		.16260127E-1	.99908653E-3
27-33	9	.16260127E-1	.99890810E-3	162		.16260127E-1	.99909374E-3
34-73		.16260127E-1	.99890250E-3	163		.16260127E-1	.99910095E-3
74		.16260127E-1	.99890904E-3	164		.16260127E-1	.99910816E-3
75		.16260127E-1	.99891558E-3	165		.16260127E-1	.99911538E-3
76		.16260127E-1	.99892212E-3	166		.16260127E-1	.99912259E-3
77		.16260127E-1	.99892866E-3	167		.16260127E-1	.99912980E-3
78		.16260127E-1	.99893520E-3	168		.16260127E-1	.99917699E-3
79		.16260127E-1	.99894174E-3	169		.16260127E-1	.99918409E-3
80		.16260127E-1	.99894828E-3	170		.16260127E-1	.99919143E-3
81		.16260127E-1	.99895482E-3	171		.16260127E-1	.99915865E-3
82		.16260127E-1	.99896136E-3	172		.16260127E-1	.99916586E-3
85-93		.16260127E-1	.99892646E-3	173		.16260127E-1	.99917307E-3
94-103		.16260127E-1	.99895662E-3	174		.16260127E-1	.99926356E-3
104-119		.1260127E-1	.99898404E-3	175		.16260127E-1	.99920249E-3
121-122		.16260127E-1	.99890250E-3	176		.16260127E-1	.99925299E-3
123-135		.16260127E-1	.99892002E-3	177		.16260127E-1	.99954766E-3
137		.16260127E-1	.99890250E-3	178		.16260127E-1	.99924243E-3
138-142		.16260127E-1	.99892002E-3	179		.16260127E-1	.99923715E-3
143		.16260127E-1	.99895671E-3	180		.16260127E-1	.99923186E-3
144		.16260127E-1	.99896392E-3	181		.16260127E-1	.99922658E-3
145		.16260127E-1	.99897114E-3	182		.16260127E-1	.99922130E-3
146		.16260127E-1	.99897835E-3	183		.16260127E-1	.99921602E-3
147		.16260127E-1	.99898556E-3	184		.16260127E-1	.99921073E-3
148		.16260127E-1	.99899277E-3	185		.16260127E-1	.99920545E-3
149		.16260127E-1	.99899998E-3	186		.16260127E-1	.99920017E-3
150		.16260127E-1	.99900720E-3	187		.16260127E-1	.99919489E-3
151		.16260127E-1	.99901441E-3	188		.16260127E-1	.99918960E-3
152		.16260127E-1	.99902162E-3	189		.16260127E-1	.99918432E-3
153		.16260127E-1	.99902883E-3	190		.16260127E-1	.99923485E-3
154		.16260127E-1	.99903604E-3	191		.16260127E-1	.99917376E-3
155		.16260127E-1	.99904326E-3	192		.16260127E-1	.99916847E-3
156		.16260127E-1	.99905047E-3	193		.16260127E-1	.99925103E-3
157		.16260127E-1	.99905768E-3	194		.16260127E-1	.99915791E-3
158		.16260127E-1	.99906489E-3	195		.16260127E-1	.99915263E-3
				136	10	.56433148E-3	.99991328E-3
				196-214		.56433148E-3	.99991328E-3
				217-221		.56433148E-3	.99991328E-3

Figure 5c-4: The time series of salinity differences as a function of station number shows the final data to be uniformly calibrated.

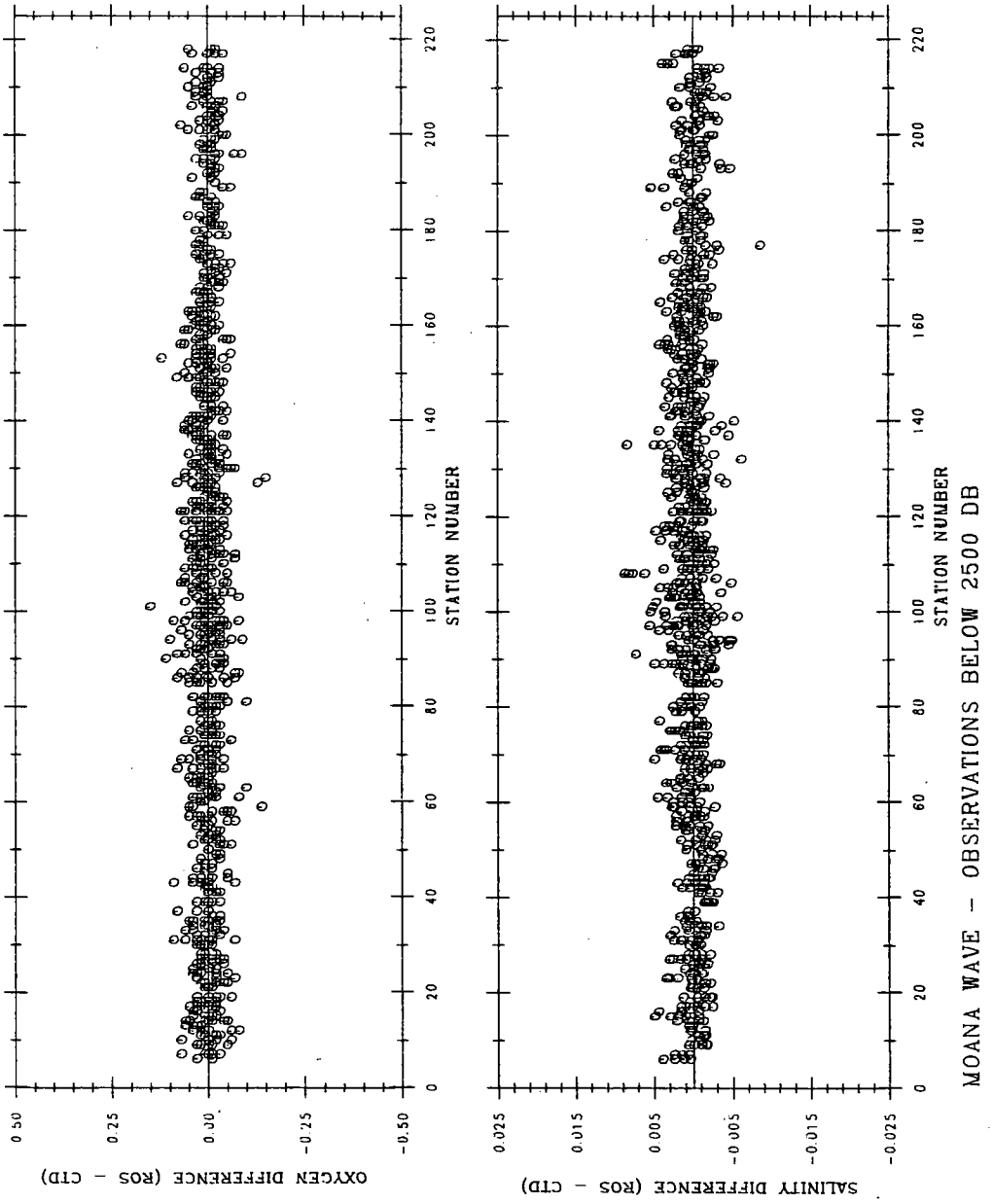
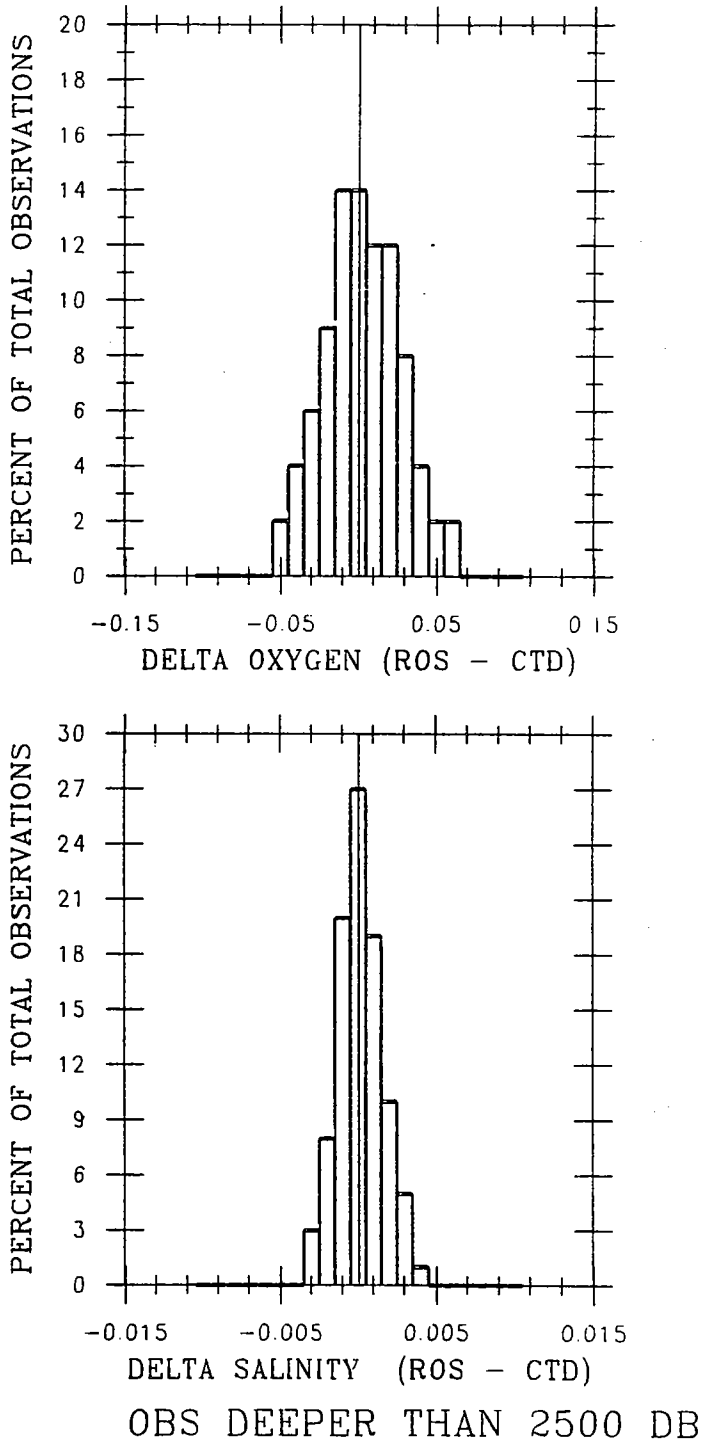


Figure 5c-5: Histograms showing the water sample minus CTD differences for oxygen and salinity at pressures greater than 2500 db.



Uncertainty in the final CTD salinity data may be measured by differences between CTD and water sample salinity data. Absolute CTD salinity accuracy of course hinges on the accuracy of the water sample data (see the preceding section). Two measures of CTD/water-sample consistency were prepared (Figures 5c-4 and 5c-5, lower panels). The time series plot of salinity differences as a function of station number shows the final data to be uniformly calibrated. The histogram of the salinity differences for the full data set is Gaussian with zero mean as would be expected from random measurement error; the standard deviation of the population is .00177 in the deep water (pressure greater than 2500 db). The distribution of potential density anomaly along 10°N is presented in Plate 1 together with the location of each station. The distribution of potential temperature (°C) and salinity along the section is shown in Plate 2.

Oxygen data

Coefficients in the CTD oxygen sensor calibration algorithm were derived from *in situ* water sample oxygen data following Owens and Millard (1985). The algorithm is:

$$Oxm = [A * (Oc + B * dOc/dt) + C] * Oxsat(T,S) e^{D * [T + E * (To-T)] + F * P}$$

Where
Oc is the measured oxygen current
To is the measured oxygen temperature
Oxsat(T,S) is the oxygen saturation according to Weiss (1970)
A is the oxygen current slope;
B is the oxygen sensor lag;
C is the oxygen current bias;
D, E, and F represent adjustments for the oxygen sensor's teflon membrane permeability sensitivity to temperature and pressure.

CTD oxygen sensors were replaced several times during the cruise when it appeared that the data were degrading. Table 5c-2 reports the sensor history for the cruise.

Table 5c-2: Summary of oxygen sensors employed on the 10N cruise. Sensors on each instrument were assigned sequential letter codes (A, B, C, ...)

STA 3-7	CTD #8	Oxygen sensor A
STA 9-26	CTD #8	Oxygen sensor B
STA 27-82	CTD #9	Oxygen sensor A
STA 85-195	CTD #9	Oxygen sensor B
STA 136,196-221	CTD #10	Oxygen sensor A

The process of calibrating the data began by subdividing the stations into groups which appeared to have homogeneous calibration characteristics. A multiple regression technique was then used to define the coefficients in the above equation. Note that the regression is between downcast CTD oxygen sensor data and water sample observations obtained on the upcast. (This is because erroneous CTD oxygen data are obtained when the underwater package is stopped to close a rosette bottle. As well, the oxygen sensor typically exhibits excessive up-down hysteresis.)

Oxygen sensor characteristics changed markedly in time on the 10°N cruise. Regression groups were typically small, and frequently consisted of single stations. Because of the extremely low oxygen values found in the Pacific Ocean, some of the oxygen fitting routines did not give satisfactory results; the algorithm occasionally returned values below zero. These areas, generally in the shallow thermocline, were interpolated over. Some fits also needed to be weighted either more heavily at the surface or bottom to obtain reasonable fits, while other stations required large lags in order to get the CTD to match the water sample data at the thermocline. We have no explanation for the lack of sensor stability or its occasional nonstandard behavior. The following details the algorithm coefficients used to generate the final data:

Table 5c-3: Summary of dissolved oxygen algorithm coefficients used to reduce the 10°N transpacific CTD/O_2 data.

Sta	BIAS	SLOPE	PCOR	TCOR	WT	LAG
3-7	-0.019	0.927	0.1502E-03	-0.3491E-01	0.6734E+00	0.6239E+01
9	-0.067	1.012	0.1953E-03	-0.3645E-01	0.6934E+00	0.4202E+01
10	0.040	0.761	0.1546E-03	-0.3003E-01	0.6064E+00	0.4092E+01
11-14	-0.003	0.920	0.1614E-03	-0.3008E-01	0.9130E+00	0.8000E+01
15-16	-0.021	0.992	0.1701E-03	-0.3328E-01	0.8260E+00	0.6773E+00
17	0.011	0.918	0.1601E-03	-0.3008E-01	0.8698E+00	0.8004E+01
18-20	-0.075	1.139	0.1902E-03	-0.3575E-01	0.7879E+00	0.8000E+01
21	-0.008	0.975	0.1616E-03	-0.3081E-01	0.9660E+00	0.8000E+01
22-25	0.016	0.861	0.1746E-03	-0.2542E-01	0.8607E+00	0.8000E+01
26	-0.064	1.186	0.1661E-03	-0.3779E-01	0.6705E+00	0.7987E+01
27	-0.029	0.977	0.1366E-03	-0.3627E-01	0.1000E+01	0.8000E+01
28	-0.027	1.025	0.1410E-03	-0.3424E-01	0.8475E+00	0.8005E+01
29-32	0.016	0.906	0.1398E-03	-0.2847E-01	0.8195E+00	0.8465E+01
33	0.017	0.878	0.1419E-03	-0.2841E-01	0.7404E+00	0.8000E+01
34	0.010	0.945	0.1460E-03	-0.2914E-01	0.8875E+00	0.8032E+01
35	0.022	0.878	0.1432E-03	-0.2818E-01	0.1084E+01	0.8000E+01
36-38	-0.006	1.015	0.1404E-03	-0.3223E-01	0.8163E+00	0.8000E+01
39-40	-0.019	1.078	0.1414E-03	-0.3472E-01	0.8125E+00	0.4732E+01
41-45	-0.008	1.053	0.1400E-03	-0.3081E-01	0.7990E+00	0.8000E+01
46	-0.016	1.068	0.1385E-03	-0.3106E-01	0.7669E+00	0.8000E+01
47	-0.020	1.095	0.1344E-03	-0.3052E-01	0.9005E+00	0.8000E+01
48	-0.044	1.211	0.1211E-03	-0.3506E-01	0.7500E+00	0.8000E+01
49-50	-0.030	1.158	0.1312E-03	-0.3135E-01	0.7656E+00	0.8000E+01
51	-0.031	1.200	0.1275E-03	-0.3168E-01	0.8362E+00	0.8000E+01
52-53	-0.015	1.114	0.1261E-03	-0.2993E-01	0.7671E+00	0.6683E+01
54	0.013	0.997	0.1277E-03	-0.2507E-01	0.7500E+00	0.8000E+01
55-56	-0.010	1.041	0.1287E-03	-0.2480E-01	0.7500E+00	0.8000E+01
57-59	-0.006	1.077	0.1200E-03	-0.2796E-01	0.7500E+00	0.8000E+01
60-61	-0.011	1.138	0.1159E-03	-0.2430E-01	0.7500E+00	0.8000E+01
62	-0.015	1.082	0.1188E-03	-0.2668E-01	0.8367E+00	0.8000E+01

Table 5c-3: Continued.

63-65	0.020	0.982	0.1203E-03	-0.1993E-01	0.7535E+00	0.8000E+01
66	0.009	1.126	0.1100E-03	-0.2127E-01	0.7500E+00	0.8000E+01
67	0.001	1.205	0.9421E-04	-0.2266E-01	0.7500E+00	0.8000E+01
68	-0.019	1.213	0.1062E-03	-0.2563E-01	0.7500E+00	0.8000E+01
69	-0.008	1.183	0.1150E-03	-0.2433E-01	0.7500E+00	0.8000E+01
70	0.000	1.249	0.1002E-03	-0.2385E-01	0.7500E+00	0.8000E+01
71	-0.007	1.195	0.1095E-03	-0.2029E-01	0.7500E+00	0.8000E+01
72	-0.032	1.468	0.9045E-04	-0.2794E-01	0.1000E+01	0.8000E+01
73	0.009	1.165	0.1187E-03	-0.1765E-01	0.7500E+00	0.8000E+01
74-75	0.005	1.225	0.1040E-03	-0.1996E-01	0.7500E+00	0.8000E+01
76-77	-0.016	1.440	0.8805E-04	-0.2043E-01	0.1000E+01	0.3800E+02
78	-0.028	1.814	0.1441E-04	-0.2508E-01	0.1000E+01	0.3800E+02
79-81	-0.010	1.447	0.8550E-04	-0.2034E-01	0.1000E+01	0.3800E+02
82	0.036	1.005	0.1199E-03	-0.9294E-02	0.4175E+01	0.3800E+02
85	-0.001	1.053	0.1285E-03	-0.3295E-01	0.9741E+00	0.8000E+01
86	0.020	0.862	0.1639E-03	-0.2574E-01	0.1000E+01	0.8000E+01
87	0.077	0.737	0.1639E-03	-0.1835E-01	0.7500E+00	0.8000E+01
88-90	0.010	1.106	0.1427E-03	-0.3276E-01	0.8171E+00	0.8000E+01
91-93	-0.020	1.216	0.1486E-03	-0.3459E-01	0.9586E+00	0.8000E+01
94	0.028	1.226	0.1221E-03	-0.3618E-01	0.7500E+00	0.8000E+01
95	-0.003	1.214	0.1396E-03	-0.3794E-01	0.7500E+00	0.8000E+01
96	-0.007	1.142	0.1554E-03	-0.3303E-01	0.4886E+00	0.8000E+01
97	-0.020	1.247	0.1447E-03	-0.3545E-01	0.7009E+00	0.8000E+01
98-99	-0.002	1.205	0.1410E-03	-0.3388E-01	0.7500E+00	0.8000E+01
100-101	-0.003	1.153	0.1451E-03	-0.3265E-01	0.1099E+01	0.8000E+01
102	-0.018	1.228	0.1413E-03	-0.3490E-01	0.1090E+01	0.8000E+01
103	0.011	1.069	0.1454E-03	-0.3122E-01	0.6922E+00	0.8000E+01
104-105	0.006	1.084	0.1469E-03	-0.2924E-01	0.1083E+01	0.8000E+01
106-111	0.016	1.042	0.1505E-03	-0.2958E-01	0.9851E+00	0.8000E+01
112-119	0.007	1.075	0.1505E-03	-0.3011E-01	0.7500E+00	0.8000E+01
121	-0.008	1.042	0.1583E-03	-0.3113E-01	0.4796E+00	0.8000E+01
122	-0.014	1.164	0.1377E-03	-0.3485E-01	0.9135E+00	0.8000E+01
123	0.012	1.098	0.1338E-03	-0.3309E-01	0.3371E+00	0.8000E+01
124-129	-0.008	1.167	0.1389E-03	-0.3486E-01	0.8682E+00	0.8000E+01
130	-0.021	1.252	0.1326E-03	-0.3596E-01	0.5423E+00	0.8000E+01
131-134	-0.006	1.156	0.1368E-03	-0.3473E-01	0.8463E+00	0.8000E+01
135	-0.009	1.174	0.1382E-03	-0.3414E-01	0.7500E+00	0.8000E+01
136	-0.049	0.980	0.1394E-03	-0.3635E-01	0.7500E+00	0.8000E+01
137-143	-0.009	1.174	0.1382E-03	-0.3414E-01	0.7500E+00	0.8000E+01
144-145	-0.005	1.132	0.1387E-03	-0.3229E-01	0.7500E+00	0.8000E+01
146-155	-0.002	1.114	0.1418E-03	-0.3162E-01	0.6225E+00	0.8000E+01
156-173	0.002	1.082	0.1404E-03	-0.3029E-01	0.1033E+01	0.8000E+01
174-186	-0.002	1.093	0.1397E-03	-0.3149E-01	0.7500E+00	0.8000E+01
187-195	-0.001	1.067	0.1398E-03	-0.2974E-01	0.1000E+01	0.8000E+01
196	-0.012	0.906	0.1389E-03	-0.4545E-01	0.7500E+00	0.1200E+02
197-203	-0.019	0.920	0.1417E-03	-0.3027E-01	0.7500E+00	0.1200E+02
204-211	-0.020	0.953	0.1375E-03	-0.3168E-01	0.7500E+00	0.1200E+02
212-214	-0.024	1.025	0.1203E-03	-0.3683E-01	0.1000E+01	0.1200E+02
217	-0.078	1.066	0.1482E-03	-0.4942E-01	0.1000E+01	0.1200E+02
218	-0.041	1.000	0.1384E-03	-0.3451E-01	0.1000E+01	0.1200E+02
219-221	-0.044	1.163	0.7750E-04	-0.3959E-01	0.1000E+01	0.1200E+02

As was the case for the salinity data, a measure of CTD derived oxygen data uncertainty is given by comparison with the water sample data (Figures 5c-4 and 5c-5, upper panels), but the absolute accuracy depends directly on the water sample accuracy. The population of oxygen difference data has a standard deviation of .03 ml/l in the deep water (pressure greater than 2500 db), with a mean indistinguishable from zero. The distribution of dissolved oxygen (ml/l) along 10°N is shown in Plate 3.

5d. NUTRIENT PRECISION AND ACCURACY DURING MOANA WAVE 89-3

by
L.I. Gordon and J.C. Jennings, Jr.

Nutrient analyses were performed by a team of analysts from Oregon State University, using an Alpkem Corp., Rapid Flow Analyzer, Model RFA™- 300. The methods for silicic acid, nitrate plus nitrite, and nitrite were those given in the Alpkem manual (Alpkem Corp., 1987). The method for phosphate was an adaptation of our hydrazine reduction method for the AutoAnalyzer™-II (Atlas et al., 1971). The adaptation consisted of scaling reagent concentrations and pump tube sizes to duplicate final concentrations of reagents in the sample stream used with our AutoAnalyzer™-II phosphate method. We had tested all of these methods as implemented on the RFA-300 by comparison with an AutoAnalyzer™-II simultaneously running our existing AutoAnalyzer™-II methods. The results were equal or better in all cases, with respect to accuracy, precision, linearity and interferences.

Sampling for nutrients followed that for the tracer gases, Helium, Tritium, CFC's, and dissolved oxygen on average 30-45 minutes after the casts were on deck. Samples were drawn into 30cc high-density polyethylene, narrow mouth, screw-capped bottles. Then they were immediately introduced into the RFA sampler by pouring into 4 cc polystyrene cups which fit the RFA sampler tray. Both the 30 cc bottles and 4 cc cups were rinsed three times with approximately one third their volume prior to filling. Analyses routinely were begun within twenty minutes after the 30 cc bottles were filled and completed within an additional hour and a half. When the RFA malfunctioned at three stations, delays of up to one and a half hours after casts arrived on deck were experienced. If the delay were anticipated to be more than one half hour, the samples were refrigerated. Samples were refrigerated and stored up to one hour on stations 3, 23 and 181.

During the work we monitored short-term precision by analyzing replicate samples taken from the same Niskin bottle and by taking replicate samples from Niskin bottles tripped at the same depth. We also compared results from similar depths on the same station. The results are shown in Table 5d-1.

To check accuracy we compared our results with historical data from the region. There is not much historical data, however. We used GEOSECS and Western Pacific Ocean Circulation Study (WEPOCS) data for comparison but the WEPOCS study area was too far south to be definitive. The present data set agrees with the old within our accuracy estimated from identified sources of error and estimates of their magnitude, i.e., silicic acid, 2%; nitrate plus nitrite, 1%; and nitrite, 0.1 micromoles per liter. The fractional

values are relative to the highest concentrations found in the regional water columns. Our deep phosphate concentrations may be up to about 0.07 micromolar higher on average than the GEOSECS data. We have no recorded laboratory notebook entries that could explain the difference. The distribution of silicic acid (μmol/l) along 10°N is shown in Plate 3 and the distribution of nitrate and phosphate along the section is shown in Plate 4.

Table 5d-1: Precision results from cruise Moana Wave 89-3. Entries are one standard deviation of a single analysis computed by pooling variances. Units are micromoles per liter throughout. To convert the nutrient values to micromoles/kg, use the potential densities of the seawater samples computed for the salinity of the sample and for 23°C, the mean laboratory temperature at the time of measurement of the nutrients. (This is the temperature at which the volume of the sample captured by the nutrient analyzer is fixed.) The nutrient lab temperature varied by a maximum of ±3°C during the cruise. Therefore this parameter introduces a small, non-random error of 0.08% or less into the nutrient concentrations. Case I describes replicates taken from different Niskin bottles tripped at the same depth; case II, replicates from the same Niskin bottles; and case III, samples from closely adjacent depths. "DF" gives the number of degrees of freedom for each case.

Case	Phosphate	Nitrate + Nitrite	Silicic Acid	Nitrite	DF
Leg 1					
I	0.013	0.07	0.22	0.001	53
II	.008	.08	.35	.002	49
Leg 2					
II	.010	.08	.17	.008	36
III	.006	.12	.09	.00	4
Leg 3					
II	.014	.05	.24	.003	97
III	.007	.05	.13	.002	34

Table 5d-2. Average nutrient laboratory temperatures measured for each station's analyses during the 10°N transpacific section. These temperatures are used to convert the units from umol/l to umol/kg.

Nutrient Lab temperature summary, 10 N Pacific

Sta	Date	Time	Temp.	Sta	Date	Time	Temp.	Sta	Date	Time	Temp.
1	07 Feb 89	1430	23.7	75	02 Mar 89	2331	22.1	149	19 Apr 89	1940	22.5
2	-	-	22.8	76	03 Mar 89	0625	22.8	150	20 Apr 89	0440	22.0
3	10 Feb 89	0045	22.0	77	03 Mar 89	1325	24.8	151	20 Apr 89	1230	22.0
4	10 Feb 89	0045	22.0	78	03 Mar 89	1920	24.4	152	20 Apr 89	2120	21.6
5	10 Feb 89	0250	22.8	79	03 Mar 89	2245	24.5	153	21 Apr 89	0530	22.0
6	10 Feb 89	-	22.0	80	03 Mar 89	0505	25.0	154	21 Apr 89	1445	22.2
7	10 Feb 89	1406	24.0	81	04 Mar 89	1020	25.0	155	21 Apr 89	2410	21.3
8	10 Feb 89	2045	25.0	82	-	1700	24.4	156	22 Apr 89	0900	22.0
9	11 Feb 89	0830	24.4	83	04 Mar 89	2150	20.5	157	22 Apr 89	1715	22.4
10	-	1015	23.8	84	-	0352	22.0	158	-	-	22.3
11	11 Feb 89	1600	25.0	85	-	0715	21.0	159	-	1020	22.2
12	11 Feb 89	2230	25.0	86	-	1515	21.0	160	23 Apr 89	1830	22.8
13	12 Feb 89	0425	24.0	87	-	2350	23.0	161	23 Apr 89	0330	22.0
14	12 Feb 89	-	25.0	88	10 Mar 89	0705	22.5	162	24 Apr 89	1225	22.1
15	12 Feb 89	2005	25.5	89	10 Mar 89	1500	24.0	163	24 Apr 89	2140	21.1
16	13 Feb 89	0340	24.8	90	-	2215	23.0	164	25 Apr 89	0615	20.6
17	13 Feb 89	1025	25.5	91	-	0730	22.7	165	25 Apr 89	1310	22.4
18	-	-	25.5	92	-	1550	22.5	166	25 Apr 89	2030	22.0
19	14 Feb 89	0145	25.5	93	11 Mar 89	0025	22.2	167	26 Apr 89	0420	21.8
20	14 Feb 89	0730	25.5	94	12 Mar 89	0940	22.0	168	26 Apr 89	1150	22.5
21	14 Feb 89	1225	25.5	95	-	-	22.0	169	26 Apr 89	2005	20.9
22	14 Feb 89	1643	25.9	96	13 Mar 89	0308	22.0	170	27 Apr 89	0430	21.0
23	-	2250	26.4	97	13 Mar 89	1215	22.0	171	27 Apr 89	1200	22.6
24	-	-	26.4	98	13 Mar 89	2150	22.0	172	27 Apr 89	2000	22.2
25	15 Feb 89	1115	27.0	99	-	0745	22.5	173	28 Apr 89	0340	22.0
26	15 Feb 89	1830	27.2	100	-	1715	21.8	174	28 Apr 89	1127	22.8
27	15 Feb 89	-	27.0	101	15 Mar 89	0225	21.2	175	28 Apr 89	1940	21.9
28	16 Feb 89	0640	26.0	102	15 Mar 89	1335	23.0	176	29 Apr 89	0400	22.0
29	16 Feb 89	1220	25.0	103	15 Mar 89	2220	21.7	177	29 Apr 89	1100	22.3
30	16 Feb 89	1645	23.5	104	16 Mar 89	0725	22.7	178	29 Apr 89	1738	21.8
31	16 Feb 89	2155	22.5	105	16 Mar 89	1645	23.7	179	30 Apr 89	0055	22.5
32	-	0050	22.7	106	17 Mar 89	0118	22.5	180	30 Apr 89	0750	22.7
33	17 Feb 89	0630	22.7	107	17 Mar 89	1035	22.0	181	30 Apr 89	1540	21.5
34	17 Feb 89	1220	23.0	108	17 Mar 89	1830	23.0	182	30 Apr 89	2350	22.0
35	17 Feb 89	1740	23.5	109	-	-	23.0	183	01 May 89	0700	22.0
36	17 Feb 89	2235	22.3	110	18 Mar 89	1045	23.0	184	01 May 89	1358	21.1
37	18 Feb 89	0432	22.5	111	18 Mar 89	1844	24.0	185	01 May 89	2125	22.0
38	18 Feb 89	1205	22.7	112	19 Mar 89	0325	23.3	186	02 May 89	0500	22.0
39	18 Feb 89	1624	22.7	113	19 Mar 89	1127	23.0	187	02 May 89	1131	22.6
40	18 Feb 89	-	22.7	114	19 Mar 89	1950	23.5	188	02 May 89	1818	21.5
41	-	0430	22.7	115	20 Mar 89	-	23.5	189	03 May 89	0040	21.5
42	19 Feb 89	1500	22.7	116	20 Mar 89	1140	23.5	190	03 May 89	0420	21.5
43	19 Feb 89	2245	22.0	117	20 Mar 89	1720	23.5	191	03 May 89	0800	22.3
44	20 Feb 89	0815	21.8	118	-	0255	22.0	192	03 May 89	1330	22.8
45	20 Feb 89	1240	23.0	119	21 Mar 89	1145	22.0	193	03 May 89	2110	22.3
46	20 Feb 89	-	22.9	120	09 Apr 89	0630	21.9	194	04 May 89	0420	22.0
47	21 Feb 89	0140	22.9	121	09 Apr 89	1105	23.2	195	04 May 89	1034	22.4
48	21 Feb 89	0925	22.8	122	09 Apr 89	1940	23.1	196	04 May 89	1720	21.9
49	21 Feb 89	1455	23.3	123	10 Apr 89	0350	23.3	197	05 May 89	0025	20.9
50	21 Feb 89	1925	23.0	124	10 Apr 89	1158	25.3	198	05 May 89	0705	20.4
51	22 Feb 89	-	23.0	125	10 Apr 89	2125	25.0	199	05 May 89	1415	20.8
52	-	0750	22.8	126	11 Apr 89	0700	24.1	200	05 May 89	2135	21.0
53	22 Feb 89	1620	23.5	127	11 Apr 89	1540	25.5	201	06 May 89	0600	20.7
54	22 Feb 89	-	23.3	128	11 Apr 89	-	22.6	202	06 May 89	1335	22.8
55	23 Feb 89	1035	23.2	129	12 Apr 89	1020	22.9	203	06 May 89	2110	21.0
56	23 Feb 89	1955	24.0	130	12 Apr 89	1850	23.0	204	07 May 89	0410	20.5
57	24 Feb 89	0420	23.2	131	-	0315	20.7	205	07 May 89	1135	22.0
58	24 Feb 89	1320	25.0	132	13 Apr 89	1310	22.9	206	07 May 89	2000	21.5
59	24 Feb 89	-	24.5	133	13 Apr 89	2210	21.9	207	08 May 89	0320	20.2
60	25 Feb 89	0845	24.0	134	14 Apr 89	0930	21.9	208	08 May 89	0900	20.5

Table 5d-2. Continued.

61	25 Feb 89	1905	23.4	135	14 Apr 89	1740	22.6	209	08 May 89	1430	21.9
62	26 Feb 89	0425	23.5	136	15 Apr 89	0215	21.5	210	08 May 89	2000	20.7
63	26 Feb 89	1505	24.3	137	15 Apr 89	1030	21.5	211	09 May 89	0150	20.3
64	26 Feb 89	0045	24.7	138	15 Apr 89	1900	21.8	212	09 May 89	-	20.3
65	27 Feb 89	1120	23.0	139	16 Apr 89	0315	21.3	213	09 May 89	1315	20.9
66	27 Feb 89	2025	22.0	140	16 Apr 89	1130	22.8	214	09 May 89	1635	21.0
67	28 Feb 89	0550	22.3	141	16 Apr 89	2010	22.0	215	09 May 89	1945	20.5
68	28 Feb 89	1425	22.3	142	17 Apr 89	0600	21.7	216	-	-	20.3
69	28 Feb 89	2355	23.7	143	17 Apr 89	1435	21.2	217	-	-	20.3
70	01 Mar 89	-	23.7	144	17 Apr 89	0029	21.8	218	10 May 89	0500	20.1
71	01 Mar 89	1750	23.7	145	18 Apr 89	1020	21.7	219	10 May 89	0717	20.4
72	02 Mar 89	0130	23.0	146	18 Apr 89	1935	21.9	220	10 May 89	0912	20.8
73	02 Mar 89	0905	23.5	147	19 Apr 89	0320	22.0	221	10 May 89	1039	21.7
74	-	1558	23.0	148	19 Apr 89	1125	22.7				

5e. CHLOROFLUOROCARBONS MEASURED DURING MOANA WAVE CRUISE 89-3

by
R. Weiss and R. Van Woy

Concentrations of the dissolved atmospheric chlorofluorocarbons (CFCs) F-11 (trichlorofluoromethane) and F-12 (dichlorodifluoromethane) were measured by shipboard electron-capture gas chromatography, according to the methods described by Bullister and Weiss (1988). The CFC measurements were carried out as a collaboration between the Scripps Institution of Oceanography (R. F. Weiss), the University of Miami (R. A. Fine), and the Woods Hole Oceanographic Institution (J. L. Bullister). The Scripps group provided the CFC analytical system, and carried out the shorebased data processing and initial quality control. A total of 3001 water samples were measured for CFCs, of which 241 were replicates.

The CFC analytical system functioned well, although there were CFC contamination problems of an unprecedented severity on this expedition. Nearly all of the analytical equipment, including the 10-liter Niskin bottles used for the majority of the hydrographic work, were sent to Majuro in a shipping container which was severely contaminated with CFCs, probably originating from packing foams used for other equipment in the container. The CFC measurement system was badly contaminated, although we were able to get the system reasonably clean after a few stations (there was also some F-12 contamination from refrigeration leaks aboard ship which had to be repaired). However, the most serious problem was the contamination of the Niskin sampling bottles, apparently by the absorption and subsequent desorption of F-11 and F-12 by the PVC material of the bottles themselves. Despite every effort to clean the bottles and to expose them to uncontaminated air aboard ship, the contamination for F-11 persisted for nearly all of the expedition, and the contamination for F-12 persisted for most of the first leg.

These difficulties caused serious losses for the deeper low-level measurements, especially in the beginning of the expedition, and added a tremendous amount of work to data processing. This problem was exacerbated by the practice of identifying each Niskin bottle only by its position on the sampling rosette, rather than assigning each physical bottle a number regardless of position on the rosette, as has been done on many other expeditions. Bottle positions were frequently changed during the expedition, including rotations of position and substitutions of spare bottles, in an attempt to find the bottles with the lowest blanks and in an effort to assess the blanks of each of the bottles by using them to sample CFC-free deep waters at some of the stations. Fortunately the changes were recorded by the CFC analysts, and with this information a map of actual bottle number versus rosette position at each station was constructed.

This map was first used in an attempt to construct a blank history for each bottle, but it was found that there was insufficient information to determine a blank level for each bottle throughout the expedition. It was possible, however, to construct a composite history for each type of bottle used. There were four different bottle types used on this expedition. The most highly contaminated were the 10-liter Niskin provided by the WHOI CTD group which were used for the vast majority of the sampling. Also used were a few 2.4-liter custom sampling bottles designed by J. Bullister, and one 10-liter bottle designed by B. Thomas of the Scripps Oceanographic Data Facility group. All of these bottles were shipped to the expedition in the same container, and had similar problems of varying degree. For the final leg of the expedition, several uncontaminated 10-liter bottles from the University of Miami were air freighted to the ship. These had significantly lower blank levels.

Sample blank histories for each type of bottle were determined by plotting the measured CFC concentrations as a function of potential density to identify a potential density at which we would safely conclude that there was no longer a decreasing CFC trend with increasing potential density. Waters at greater densities were considered to be effectively CFC-free. We selected waters with sigma-theta values of 27.5 or greater, which is consistent with the density regime of CFC-free waters found on the 47°N and 24°N trans-Pacific sections in 1985 (Warner, 1988). For each type of bottle, the resulting blanks were fitted to a simple first-order exponential decay as a function of time for each of the three legs:

$$C = ae^{-bT}$$

where T is time in days, C is the blank concentration in picomoles/kg, and a and b are the fitted constants. The results of this fit are listed below for each of the three legs and for each bottle type:

Table 5e-1: F-11 Sample Blank Fit Results

	Leg 1		Leg 2		Leg 3	
Bottle Type	a	b	a	b	a	b
WHOI 10 l	0.0474	0.0387	0.0222	0.0306	0.0094	0.0266
Bullister 2.4 l	0.0252	0.0108	0.0260	0.1121	0.0058	0.0206
Scripps 10 l	0.0474	0.0387				
Miami 10 l					0.0041	0.0350

Table 5e-1: Continued.

F-12 Sample Blank Fit Results

Bottle Type	Leg 1 a	Leg 1 b	Leg 2 a	Leg 2 b	Leg 3 a	Leg 3 b
WHOI 10 l	0.0186	0.0787	0.0050	0.0	0.0050	0.0
Bullister 2.4 l	0.0120	0.0587	0.0040	0.0	0.0040	0.0
Scripps 10 l	0.0186	0.0787				
Miami 10 l					0.0058	0.0592

The precision (± one s.d.) of the CFC measurements, as determined from replicate analyses, is normally about 1% or about 0.005 pmol/kg, whichever is greater, for both CFCs. However, the uncertainties introduced by the large and variable blank values for F-11 during most of the expedition, and for F-12 during the first leg, increased the error in low-level CFC measurements in the early part of the expedition to about 0.05 picomoles/kg for F-11, and to about 0.02 picomoles/kg for F-12. The estimated accuracy of the calibrations is about 1.3% for F-11 and 0.5% for F-12. The results of individual replicate analyses are listed in Table 5e-1, and their mean values are reported in the main bottle data listings, annotated with a '6' in the Quality word. All results are reported on the SIO 1986 calibration scale.

It is important to emphasize that the data have been edited to remove serious 'flyers' and contaminated samples, and to correct gross numerical errors. However, all of the data have not yet been subjected to the level of scrutiny associated with careful interpretive work. Readers are therefore requested to contact the Scripps CFC group for any revisions in the data which may post-date this report, and to draw to our attention any suspected inconsistencies.

The following flags appear in the Quality word in the data listings:

6 = mean of replicate measurements
7 = manual peak integration
8 = irregular digital integration

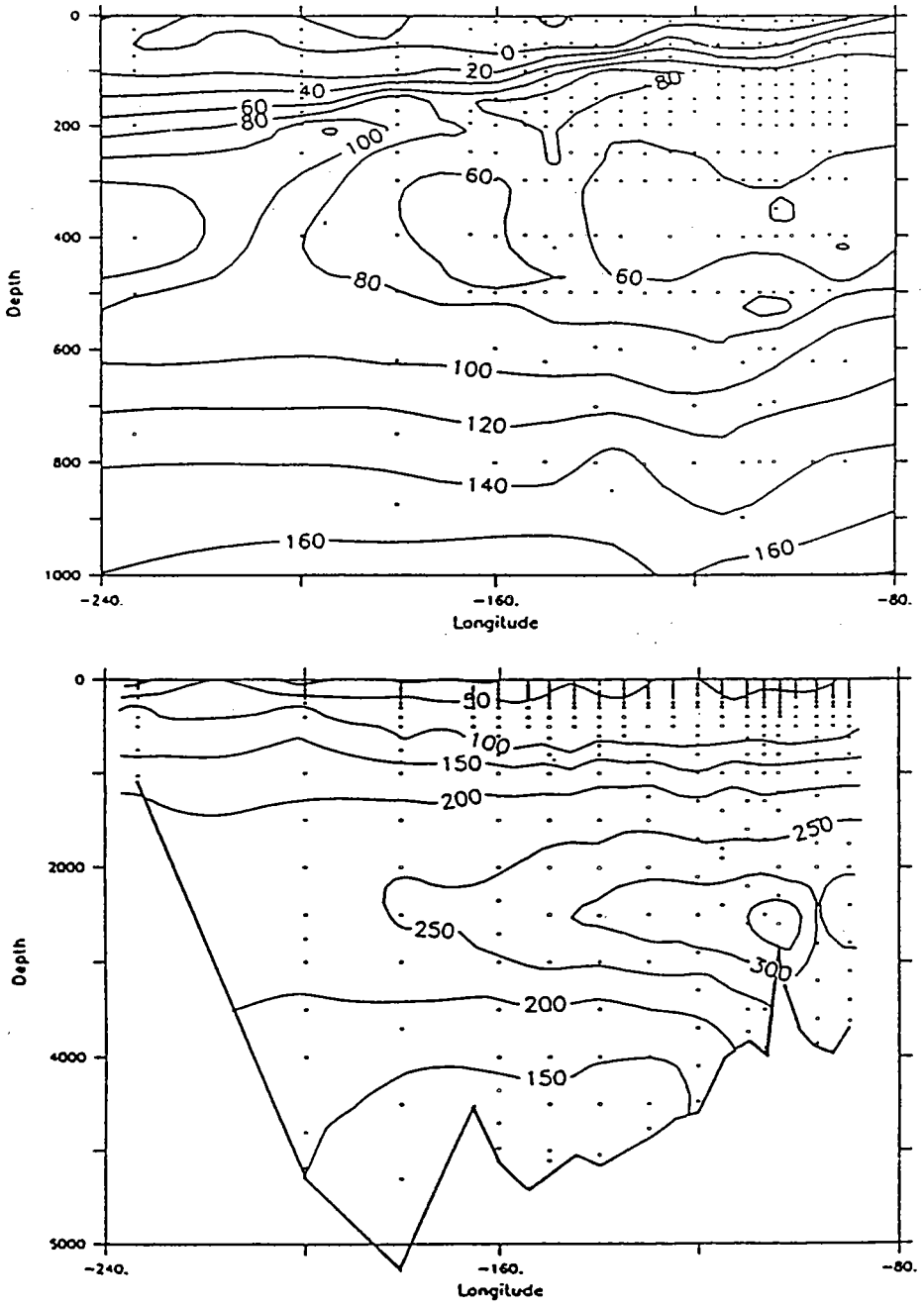
5f. MEASUREMENT OF HELIUM ISOTOPES AND TRITIUM AT 10°N

by
W.J. Jenkins

Tritium and helium sampling was done with a maximum station separation of 5° longitude in the interior, and 3° near the ends of the section. Tritium samples were obtained from the Niskin water samplers in pretreated and argon filled flint glass bottles with polyseal caps. Each bottle was nearly filled and returned to the shorebased laboratory for subsequent degassing and ^{3}He regrowth analysis. Helium samples on the first two legs were taken in crimped copper tubes for shorebased extraction. For the third leg, helium samples were taken in stainless steel cylinders and extracted on board. Helium extraction and tritium degassing techniques are similar to those described elsewhere (Jenkins, 1981). Both tritium and helium measurements were (and are being) made on a dual collecting, statically operated magnetic sector mass spectrometer. For mass spectrometric procedures, see Lott and Jenkins, 1984.

A total of 655 samples were taken, of which 373 helium analyses and 101 tritium analyses have been performed. All samples have been extracted or degassed, and completion of analyses is anticipated within tne next six months of the time of writing (August, 1991). Not all the data are yet available, in particular tritium has not been analyzed due to the mandatory incubation period, but sufficient exists to show some interesting, if qualitative, results. Figure 5f-1 shows the section of ^{3}He (expressed as the helium isotope ratio anomaly in permil) along 10°N viewed from the south (west on the left). Data points are indicated on the diagram by vertical crosses, and it should be noted that additional data (samples have been extracted but not yet analyzed) will fill in the details primarily in the western half of the section (and also at the extreme eastern end). The lower panel is the full depth section, showing the deep, primordial ^{3}He plume emanating westward from the East Pacific Rise. It is analogous to the corresponding plume observed at 15°S (Lupton and Craig, 1981), presumably driven by beta-plume dynamics (Stommel, 1982), and is a signature of hydrothermal effluent at the ridge. A cross section of this plume can be clearly seen in the meridional GEOSECS sections at approximately 120 and 180°W (GEOSECS, 1987). Two "bullseyes" appear north and south of the equator at those latitudes. The maximum value in this plume, slightly more than 400‰, is somewhat less than its southern counterpart. Below the plume, the incoming, ^{3}He impoverished bottom water can be seen. Careful analysis of the 10°N data indicates the "cleanest" water is entering near the dateline, and apparently recirculating southward between 120 and 160°W (Johnson, 1990).

Figure 5f-1: ^{3}He sections along 10°N in the Pacific (west to the left) expressed in terms of helium isotope ratio anomaly in permil. Vertical crosses indicate data points. Lower panel is the full depth section, upper panel is the upper 1000 m only.

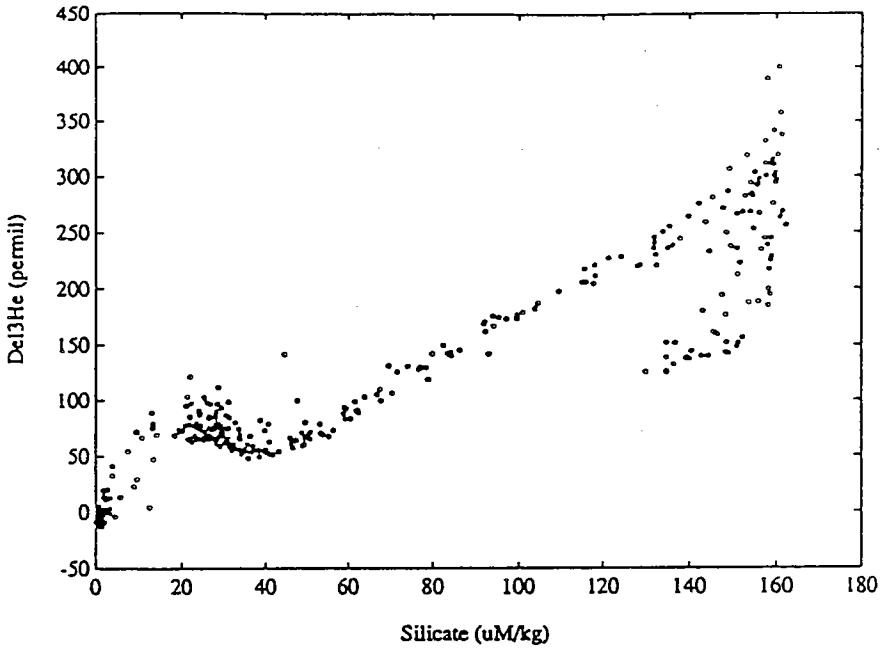


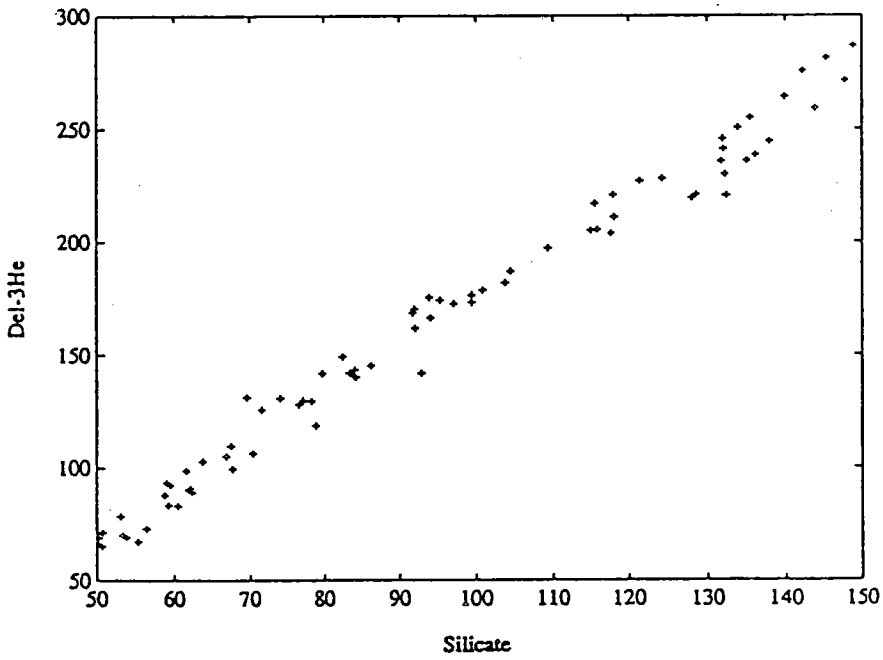
In the shallow water (upper panel of Figure 5f-1) one sees a minimumin ^3He at a depth of about 400 m, overlain by a maximum at a depth of 200-300 m. This shallow maximum is produced by the *in situ* decay of ^3He, a feature also observed in the Atlantic thermocline (e.g. see Jenkins, 1988). The important question is to what extent is this "tritiugenic ^3He signal" contaminated by primordial ^3He. The presence of the minimum below implies that it should be possible to separate the two signals. Noting that the deep silica and ^3He distributions look qualitatively alike, one is tempted to use silica as an analog of primordial ^3He (cf. Broecker, 1980). Although the ultimate sources of these tracers are different, it can be argued that the upward mixing or upwelling of primordial ^3He should be accompanied by deep silica. Figure 5f-2 (upper panel) is a plot of $\delta(^3He)$ vs silica, highlighting the incoming bottom water (the downward hook on the RHS of the graph), the primordial plume (the spike above it), and the tritiugenic ^3He maximum at the low silica end. The region between the deep water plume and the tritiugenic hump is strikingly linear (lower panel in Figure 5f-2), so that one anticipates using the linear relation as a predictor of the component of primordial ^3He in shallower waters. A significant fraction of the ^3He variance about the line can be accounted for by an additional correlation with AOU (the range of AOU across the section at these density horizons is 50-100 μM/kg) due to a small component of *in situ* dissolution. This refinement is currently being investigated.

Using the silica correction, one can then construct the "corrected" ^3He section, shown *vs* σ_θ in the upper panel of Figure 5f-3. The lower panel is the tritium distribution, also in T.U. for the same section. The lower panel shows the tritium data available to date for the same section (analyses are currently underway).

The relationship between the two tracers is consistent with observations in the North Atlantic thermocline: the tritiugenic ^3He maximum is below the tritium maximum, embedded in the top of the "tritium-cline". As expected, the corrected ^3He approaches "zero" (atmospheric equilibrium value, near -17‰ in the deep water. This gives us confidence that the primordial ^3He subtraction scheme is correct at least to first order. One can then attempt to compute tritium-helium ages, shown in Figure 5f-4 (upper panel), which can be combined with AOU measurements to obtain oxygen utilization rates (lower panel of Figure 5f-4). Figure 5f-4 Tritium-^3He age in years (upper panel) and Oxygen Utilization Rates (in μM/kg/y, lower panel) for the 10°N section. The reader should be cautioned that the data are preliminary in addition to being rather incomplete, and that the correction scheme, although promising, requires refinement. Nonetheless, the features seen in Figures 5f-3 and 5f-4 are interesting. The tritium maximum centered on σ_θ = 24-25 lies at the base of the salinity maximum associated with the penetration of subtropical common water into the tropics. The tritium-^3He age associated with this feature clocks the timescale of this circulation, i.e. the time

Figure 5f-2: ^{3}He (in permil) *vs* silica (μ/Kg) correlations for 10°N in the Pacific.





lapse since this water was at the sea surface in the subtropics, as approximately 8-10 years. Fine et al. (1987) estimated an upper limit of 14 years to this exchange timescale, and the higher precision obtained by tritium-^{3}He dating refines their estimate. It is notable that although the salinity and tritium extrema associated with this feature are not seen east of about 160°W, the tritium-^{3}He age does not increase on this isopycnal beyond the watermass's eastward extent. The data are unfortunately sparse at present, awaiting the completion of analyses. A final note regarding interpretation of the tritium-^{3}He age is a reminder that ages much beyond 15-20 years must be interpreted within the framework of a model, since these ages will be strongly affected by mixing (see Jenkins, 1987, 1988), and that even for the shorter time-frames, some caution should be exercised.

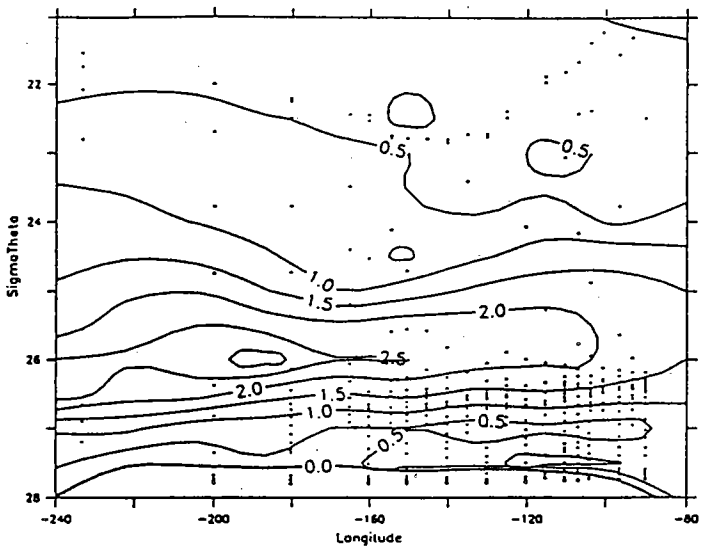
The oxygen utilization rate pattern is interesting (Figure 5f-4, lower panel). The values are low near the surface due to competition of photosynthesis vs oxidation, reach maximum below the euphotic zone, and then decrease with depth. Intensity of consumption is greater on the eastern boundary, consistent with higher productivity there. Further, the scale height associated with the OUR decrease with depth is shorter on the eastern end, although on the whole it is comparable to that observed in the Atlantic (e.g., cf. Jenkins, 1987). A crude integration of the section OURs yields an estimated new production of order 2 $mole(C)m^{-2}y^{-1}$ with a slightly higher value ~ 2.5 $mole(C)m^{-2}y^{-1}$ on the eastern side. The difference between the oxygen deficient zone and the interior is not greater due to the compensatory change in scale height. One observation is that although the region of intense oxygen deficiency is characterized by higher productivity; it is in fact largely due to poor ventilation.

The estimates of new production obtained here are significantly larger than those made by "conventional" estimates. Chavez and Barber (1987), for example, estimate rates of order 0.5 to 1.0 $mole(C)m^{-2}y^{-1}$ in the equatorial regions, with values approaching 2 to 2.5 $mole(C)m^{-2}y^{-1}$ off the coast of Peru. Overall, the productivity values computed for this section are similar to, but less than, those observed in the Atlantic. Evidence is beginning to accumulate that the Pacific is biologically less productive (in the sense of *new* production) than the Atlantic.

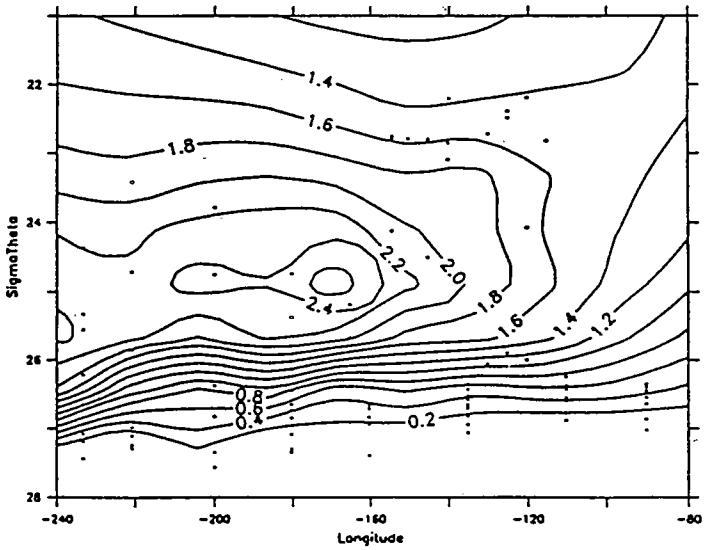
Finally, I show the tritium section (Figure 5f-5, upper panel), but this time vs depth with a contour interval of 0.025 TU, a value still more than 5 times detection limit. Here one sees the equatorward penetration of intermediate waters at a depth of about 800 m on the extreme western side of the section. An extremely interesting diagnostic of source regions for this water is the tritium-freon ratio: due to the inherent hemispheric asymmetry in the distribution of tritium, the tritium-freon ratio of southern waters is much lower than northern waters. This analysis will be done in the future. A section of tritium/freon ratio should prove

useful in assessing the relative components of southern and northern waters.

Figure 5f-3: ^{3}He section expressed in T.U. (upper panel) corrected for primordial ^{3}He using silica. The lower panel is the tritium distribution, also in T.U. for the same section.



Corrected 3He on TPS



Tritium on TPS

Figure 5f-4: Tritium-^{3}He age in years (upper panel) and Oxygen Utilization Rates (in $\mu M/kg/y$, lower panel) for the 10°N section.

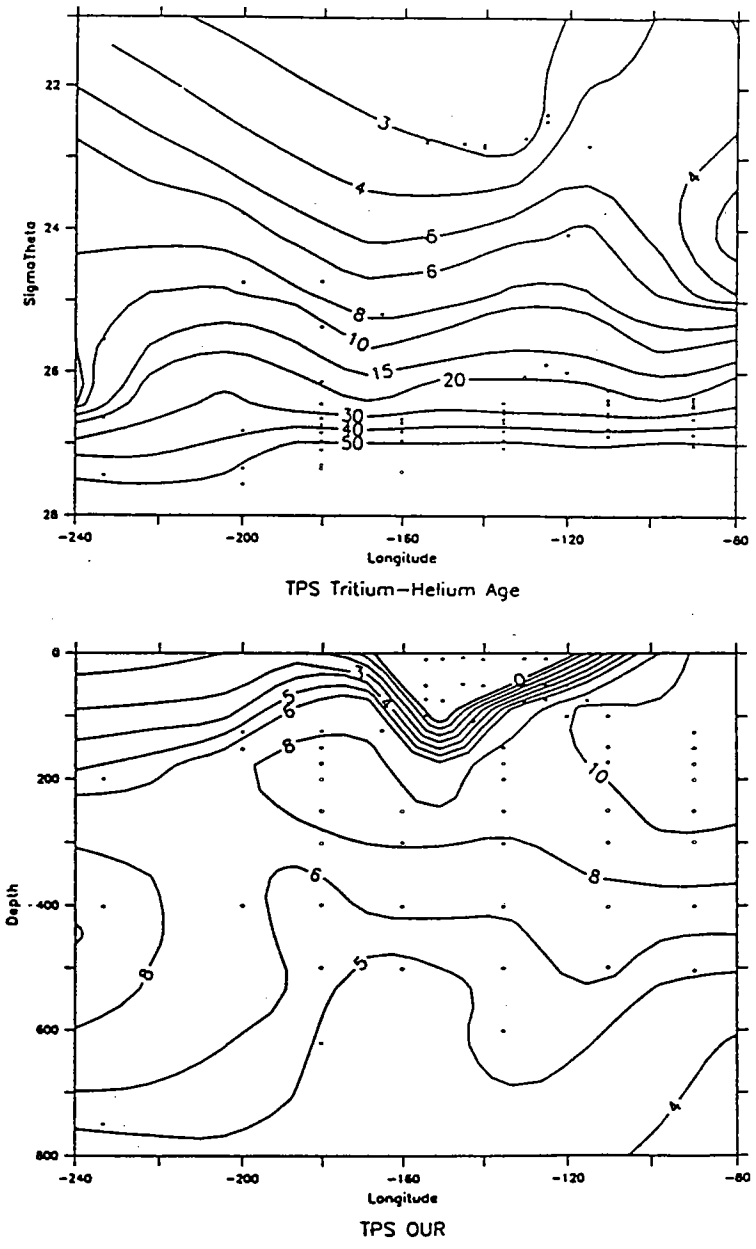
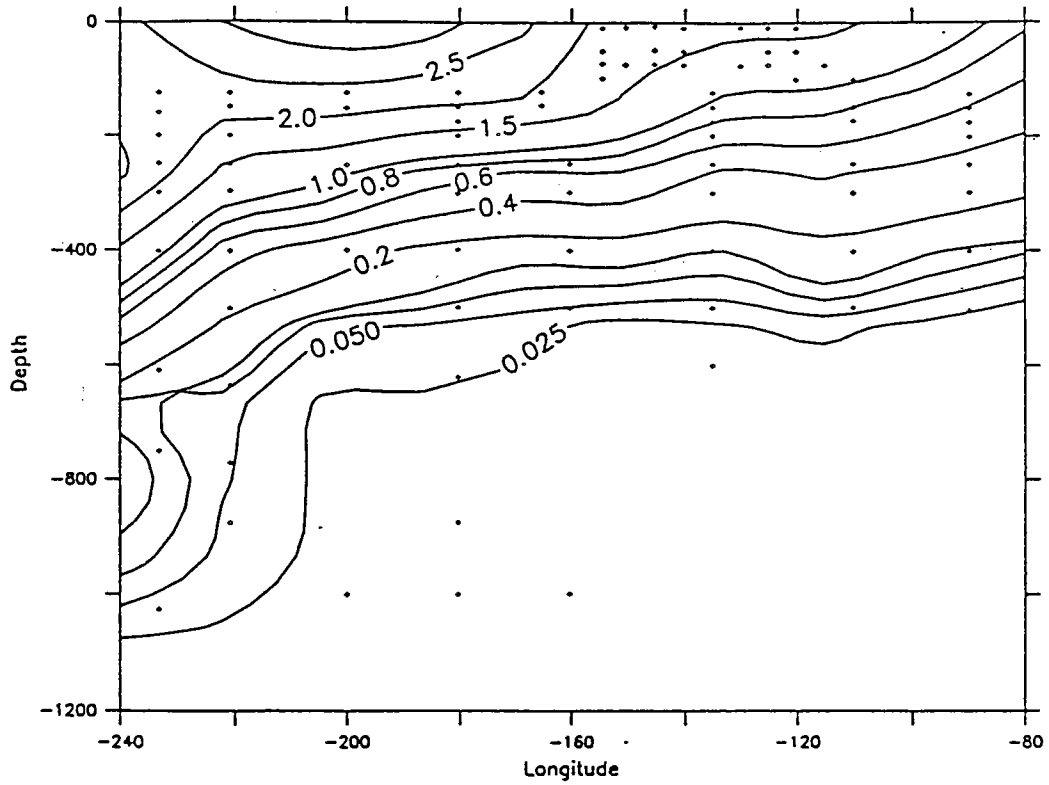


Figure 5f-5: Tritium for the 10°N section. Note the contour intervals change from 0.025 to 0.10 to 0.50 TU.



6. ACKNOWLEDGEMENTS

Support for the trans-Pacific hydrographic section across 10°N was provided by the National Science Foundation (NSF). Specifically, NSF Grant OCE-8716910 to Woods Hole Oceanographic Institution (Drs. Harry Bryden and John Toole, principal investigators) supported the CTD data acquisition and processing, the analysis of water samples for salinity and oxygen, and the acquisition of the underway acoustic Doppler current profiling (ADCP) data. Dr. Eric Firing and Frank Bahr at the University of Hawaii were instrumental in calibrating and processing the ADCP measurements into final form. The analysis of the water samples for nutrient concentrations was directed by Prof. Louis Gordon and Joe Jennings of Oregon State University with support from NSF Grant OCE-8812553. Analysis of the water samples for chlorofluorocarbons was undertaken by a consortium of Drs. Ray Weiss at Scripps Institution of Oceanography, Rana Fine at the University of Miami and John Bullister at Woods Hole Oceanographic Institution with support primarily from NSF Grant OCE-8510842. Finally, analysis of the water samples for tritium and helium was directed by Dr. William Jenkins of Woods Hole Oceanographic Institution under NSF Grant OCE-8812576.

We thank the officers and crew of the R/V Moana Wave for a most enjoyable three-month voyage. Captain William Leonard on the first two legs and Captain Robert Hayes on the long third leg were unflaggingly optimistic that we would finish this longest of hydrographic sections with no sacrifice to our sampling plan. Dave Gravatt put the CTD and Rosette water sampling system into the water and recovered it at the end of each and every station. Paul Ramos and Guy Webster kept the entire shipboard party content with a constant supply of freshly prepared, freshly caught fish and a wide variety of junk food to go with it. Finally, the outstanding communications system aboard R/V Moana Wave allowed the scientific party to keep in close contact with their colleagues around the world through twice daily e-mail messages.

7. REFERENCES

Alpkem Corporation. 1987. Operator's Manual, RFA™-300, Preliminary Version. Clackamas, Oregon. Unnumbered, loose leaf pages.

Atlas, E.L., S.W. Hager, L.I. Gordon and P.K. Park. 1971. A Practical Manual for Use of the Technicon(tm) AutoAnalyzer(tm) in Seawater Nutrient Analyses; Revised. Technical Report 215, Reference 71-22. Oregon State University, Department of Oceanography. 49 pp.

Bahr, F., E. Firing and J. Songnian. 1989. Acoustic Doppler Current Profiling in the Western Pacific during the US-PRC TOGA Cruises 2, 3, and 4. JIMAR Report 89-0175. Univ. of Hawaii. 199 pp.

Broecker, W.S. 1980. The distribution of ^3He anomalies in the deep Atlantic. *Earth Planet. Sci. Lett.* **49**, 513-519.

Brown, N.L. and G.K. Morrison. 1978. W.H.O.I./Brown Conductivity, Temperature, and Depth Microprofiler. WHOI Technical Report No. 78-23.

Bryden, H. L. 1973. New polynomials for thermal expansion, adiabatic temperature gradient and potential temperature of sea water. *Deep-Sea Res.*, **20**, 401-408.

Bullister, J.L. and R.F. Weiss. 1988. Determination of CCl_3F and CCl_2F_2 in seawater and air. *Deep-Sea Res.*, **35**, 839-853.

Carter, D.J.T. 1980. Echo-sounding correction tables. Hydrographic Dept., Ministry of Defence, Taunton, Somerset, U.K. 150 pp.

Chavez, F.P. and R.T. Barber. 1987. An estimate of new production in the equatorial Pacific. *Deep-Sea Res.*, **34**, 1229-1243.

Cook, M., L. Magnum, R. Millard, G. LaMontagne, S. Pu, J. Toole, Z. Wang, K. Wang, and L. Zhao. 1990. Hydrographic Observations from the US/PRC Cooperative Program in the Western Equatorial Pacific Ocean: Cruises 1-4. WHOI Technical Report No. 90-07, 379 pp.

Cook, M.F., J.M. Toole and G.P. Knapp. 1991. A Trans-Indian Hydrographic Section at Latitude 32°S: Data Report of RRS Charles Darwin Cruise #29. WHOI Technical Report in preparation.

Fine, R.A., W.H. Peterson, and H.G. Ostlund. 1987. The penetration of tritium into the tropical Pacific. *J. Phys. Oceanogr.*, **17**, 553-564.

Fofonoff, N.P. 1962. Physical properties of sea water. The Sea, Vol. I, Editor M.N. Hill, Interscience Publishers, New York, pp. 3-30.

References: Continued.

Fofonoff, N.P. 1985. Physical properties of seawater: A new salinity scale and equation of state for seawater. *J. Geophys. Res.*, **90**, 3332-3342.

Fofonoff, N.P., S.P. Hayes, and R.C. Millard Jr. 1974. WHOI/Brown CTD microprofiler: methods of calibration and data handling. WHOI Technical Report No. 74-89, 64 pp.

Fofonoff, N.P. and R.C. Millard, Jr. 1983. Algorithms for computation of fundamental properties of seawater. UNESCO Technical Papers in Marine Science, **44**. 53 pp.

GEOSECS, 1987. GEOSECS Atlantic, Pacific and Indian Ocean expeditions Atlas, Vol. 7: Shorebased Data and Graphics (H.G. Ostlund, H. Craig, W.S. Broecker and D. Spencer, Ed). *National Science Foundation* IDOE

Jenkins, W.J. 1981. Mass Spectrometric measurement of tritium and helium-3. *IAEA Tech Doc-246*, 179-190.

Jenkins, W.J. 1987. ^{3}H and ^{3}He in the Beta Triangle: Observations of gyre ventilation and oxygen utilization rates. *J. Phys. Oceanogr.*, **17**, 763-783.

Jenkins, W.J. 1988. The use of anthropogenic tritium and ^{3}He to study subtropical gyre ventilation and circulation. *Proc. Roy. Soc. (London)*, **325**, 43-61.

Jenkins, W.J., D.E. Lott, M.W. Pratt, and R.D. Boudreau. 1983. Anthropogenic tritium in bottom water in the South Atlantic. *Nature*, **305**, 45-46.

Johnson, G.C. 1990. Near Equatorial deep circulation in the Indian and Pacific Oceans. Ph.D Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. WHOI Technical Report 90-50. 157 pp.

Knapp, G.P., M.C. Stalcup and R.J. Stanley. 1989. Dissolved oxygen measurements in seawater at the Woods Hole Oceanographic Institution. WHOI Technical Report No. 89-23. 13 pp.

Lott, D.E. and W.J. Jenkins. 1984. An automated cryogenic charcoal trap system for helium isotope mass spectrometry. *Rev. Sci. Inst.*, **55**, 1982-1988.

Lupton, J.E. and H. Craig. 1981. A major ^{3}He source at 15°S on the East Pacific Rise. *Science*, **214**, 13-18.

Mantyla, A. W. 1987. Standard Seawater Comparisons updated. *J. Phys. Oceanogr.*, **17**, 543-548.

References: Continued.

Millard, R.C., Jr. 1982. CTD calibration and data processing techniques using the 1978 Practical Salinity Scale. *Proc. International STD Conf. and Workshop*, Mar. Tech. Soc., 19 pp.

Millard, R.C. and N. Galbraith. 1982. WHOI processed CTD data organization. WHOI Technical Report No. 82-37. 36 pp.

Millard, R.C., W.B. Owens, and N.P. Fofonoff. 1990. On the calculation of the Brunt-Väisälä frequency. *Deep-Sea Res.*, **37**, 167-181.

Owens, W.B., and R.C. Millard, Jr. 1985. A new algorithm for CTD oxygen calibration. *J. Phys. Oceanogr.*, **15**, 621-631.

Stommel, H. 1982. Is the South Pacific ^{3}He plume dynamically active? *Earth Planet. Sci. Lett.*, **61**, 63-67.

Warner, M.J. 1988. Chlorofluoromethanes F-11 and F-12: Their solubilities in water and studies of their distributions in the South Atlantic and North Pacific Oceans. Ph.D. Dissertation. University of California at San Diego. 124 pp.

Weiss, R.F. 1970. The solubility of nitrogen, oxygen and argon in water and seawater. *Deep-Sea Res.*, **17**, 721-735.

Weiss, R.F. 1981. Oxygen solubility in seawater. *Unesco Technical Papers in Marine Science No. 36*.

APPENDIX A

List of Scientific Participants, their responsibility during the cruise and Institutional affiliation.

Name	Responsibility	Affiliation
MW 89-3 (Leg 1)	Palau to Majuro	Feb. 6 - Mar. 9, 1989
John Toole	Chief Scientist	WHOI
Esther Brady	Scientist	WHOI
Jeffrey Kinder	CTD Hardware	WHOI
Carol MacMurray	CTD Software	WHOI
Margaret Francis	CTD Software	WHOI
Marvel Stalcup	Salts/Oxygens	WHOI
John Bullister	CFCs	WHOI
Christopher Johnston	CFCs	WHOI
Scot Birdwhistell	Tritium/Helium	WHOI
Joseph Jennings	Nutrients	OSU
Stanley Moore	Nutrients	OSU
Donald Cook	Watch Stander	WHOI
Kurt Polzin	Watch Stander	WHOI
MW 89-4 (Leg 2)	Majuro to Hawaii	March 9-24, 1989
Esther Brady	Chief Scientist	WHOI
Harry Bryden	Scientist	WHOI
Jeffrey Kinder	CTD Hardware	WHOI
Carol MacMurray	CTD Software	WHOI
Robert Stanley	Salts/Oxygens	WHOI
Christopher Johnston	CFCs	WHOI
Scot Birdwhistell	Tritium/Helium	WHOI
Stanley Moore	Nutrients	OSU
Nurit Cress	Nutrients	OSU
Ruth Gorski	Watch Stander	WHOI
Gregory Johnson	Watch Stander	WHOI
Rebecca Schudlich	Watch Stander	WHOI
David Wellwood	Watch Stander	WHOI

Appendix A: Continued.

MW 89-6 (Leg 3) Hawaii to Costa Rica Apr. 2 - May 10, 1989

Harry Bryden	Chief Scientist	WHOI
Esther Brady	Scientist	WHOI
Jeffrey Kinder	CTD Hardware	WHOI
Carol MacMurray	CTD Software	WHOI
George Knapp	Salts/Oxygens	WHOI
Joseph Jennings	Nutrients	OSU
James Krest	Nutrients	OSU
Kathy Tedesco	CFCs	SIO
Kevin Sullivan	CFCs	RSMAS/UM
William Jenkins	Tritium/Helium	WHOI
Carol Alessi	Watch Stander	WHOI
Barbara Gaffron	Watch Stander	WHOI
Sophie Wacongne	Watch Stander	ORSTOM, Brest
Theresa Turner	Watch Stander	WHOI
Timothy Stockdale	Watch Stander	Oxford Univ.

APPENDIX B

Plate 1 (upper): The location of each of the CTD stations occupied during R/V Moana Wave cruise #89-3, -4, -6 is shown by the dots along 10°N. The depth to the bottom, measured during the cruise, is shown in each of the sections.

Plate 1 (lower): The distribution of potential density anomaly (kg/m^3) is shown in the upper 1000 m relative to 0 db. Below 1000 m the potential density is relative to 4000 db.

Plate 2 (upper): The distribution of CTD potential temperature (°C) measured along the 10°N section.

Plate 2 (lower): The distribution of CTD salinity measured along the 10°N section.

Plate 3 (upper): The distribution of CTD oxygen (ml/l) measured along the 10°N section.

Plate 3 (lower): The distribution of water sample silica (μmol/l) measured along the 10°N section.

Plate 4 (upper): The distribution of water sample nitrate (μmol/l) measured along the 10°N section.

Plate 4 (lower): The distribution of water sample phosphate (μmol/l) measured along the 10°N section.

APPENDIX C

Station listings for the 10°N transpacific hydrographic section are presented following this description of the fields in each station listing. The Fortran algorithms employed in the generation of these listings are documented in UNESCO Tech. Report 44 "Algorithms for computation of fundamental properties of seawater" by N. P. Fofonoff and R. C. Millard (1983).

The header of each station listing contains the time and position at the bottom of the cast. Positions are determined from satellite navigation or by dead reckoning from the last satellite fix. The speed of sound is an average value computed over the full station depth. The water depth is from an echo sounder, corrected for the speed of sound (Carter, 1980).

The first block of data is calibrated CTD data and calculated variables. Starting at the left, the station variables are categorized in four groups as follows. The observed variables: temperature, salinity, and oxygen are vertically filtered values at the pressure level indicated. The standard Woods Hole Oceanographic Institution 2 dbar pressure-averaged CTD data are centered on odd pressure intervals (1,3,5,7,...) while the adopted pressure listing levels are at even pressure values. The 2 dbar temperature, salinity, and oxygen data were smoothed with a binomial filter and then linearly interpolated as required to the standard levels. The potential temperature, potential density anomaly, and potential density anomaly referenced to 2000 and 4000 dbars that follow in the listings were computed using the Fortran algorithms of UNESCO Tech. Report 44. The dynamic height and potential energy are integral quantities from the surface to the pressure interval indicated. These assume that the value of the specific volume anomaly of the first level of the 2 dbar CTD data profile can be extrapolated to the sea surface. A trapezoidal integration method was employed. The next quantities: potential temperature and salinity gradients, potential vorticity, and Brunt-Väisälä frequency, involve the calculation of vertical gradients. Gradient quantities were estimated from a centered linear least squares fit calculated over half of the neighboring listing intervals. The calculated depth involves a dynamic height correction and a latitude dependent gravity correction.

The second block of data consists of both observed and calculated variables at actual bottle levels: Botl. No. is the position on the rosette of the Niskin bottle. Next listed are CTD pressure and temperature, calculated potential temperature, potential density anomaly, and potential density anomaly referenced to 2000 and 4000 dbars and CTD salinity (all, as described above). Listed next are the measured bottle salinity, oxygen, silica, phosphate, nitrate, nitrite, CFC-11, CFC-12, and calculated depth. Finally, a quality word is included, associated with the listed variables that are marked with a double asterisk.

Appendix C: Continued.

The columns of the station listing (first block) are:

PRES	DBAR	Pressure (P) level in decibars.
TMP	°C	Temperature (T) in degrees Celsius calibrated on the 1968 International Temperature scale (IPTS 1968).
SALT		Salinity (S) computed from conductivity (C), temperature and pressure measured by the CTD sensor according to the 1978 practical salinity scale. (Fofonoff and Millard, 1983). C(35,15,0) = 42.914 mmho/cm.
OXYG	ML/L	Oxygen in milliliters per liter measured by the CTD sensor. The partial pressure of oxygen is computed from the polarographic electrode measurements using an algorithm described by Owens and Millard (1985).
PTMP	°C	Potential temperature in degrees Celsius computed by integrating the adiabatic lapse rate after Bryden (1973) (see Fofonoff and Millard, 1983). The reference level, Pr, for the calculation is 0.0 decibars. (S,T,P,Pr).
SIG-TH	kg/m3	Potential density anomaly in kilograms/m^3. Obtained by computing the density anomaly at 0 pressure replacing the *in situ* temperature with potential temperature referenced to 0 dbars.
SIG-2	kg/m3	Potential density anomaly referenced to 2000 dbars in kilograms/m^3. Obtained by computing the density anomaly at 2000 dbars replacing the *in situ* temperature with potential temperature referenced to 2000 dbars.
SIG-4	kg/m3	Potential density anomaly referenced to 4000 dbars in killograms/m^3. Obtained by computing the density anomaly at 4000 dbars replacing the *in situ* temperature with potential temperature referenced to 4000 dbars.
DYN-HT	Dyn m	Dynamic height in units of dynamic meters (10 Joules/kg) is the integral with pressure of specific volume anomaly (Fofonoff, 1962).

Appendix C: Continued.

PE	$\frac{10^{-5}J}{m^2}$	Potential energy anomaly in 10^{-5} Joules/m^2 is the integral with pressure of the specific volume anomaly multiplied by pressure (Fofonoff, 1962).
GRD-PT	$\frac{10^{-3}C}{DB}$	Potential temperature gradient in units of millidegrees Celsius per decibar. Estimated from the least squares temperature gradient over half the surrounding pressure intervals minus the center pressure adiabatic lapse rate.
GRD-S	$\frac{10^{-3}}{DB}$	Salinity gradient per decibar. Estimated from the least squares salinity gradient over half the surrounding pressure intervals.
POT-V	$\frac{10^{-12}}{(m\ s)}$	Planetary potential vorticity times 10^{-12} per meter-second.
B-V	CPH	Brunt-Väisälä frequency in cycles per hour. This is the natural frequency of oscillation of a water parcel when vertically displaced from a rest position assuming no exchanges of heat or salt with surroundings. This calculation uses the adibatic leveling of steric anomaly (Fofonoff, 1985; Millard, Owens, and Fofonoff, 1990).
DEPTH	m	The depth of the pressure interval including the local gravity and dynamic height (see DYN-HT definition) corrections (Fofonoff and Millard, 1983).

The columns of the station listing (second block) are:

BOTL NO		Bottle number represents the firing position of the Niskin bottle on the rosette.
PRES	DBAR	Pressure (P) level in decibars.
CTDTMP	°C	Temperature (T) in degrees Celsius calibrated on the 1968 International Temperature scale (IPTS 1968)

Appendix C: Continued.

THETA	°C	Potential temperature in degrees Celsius computed by integrating the adiabatic lapse rate after Bryden (1973) (see Fofonoff and Millard, 1983). The reference level, Pr, for the calculation is 0.0 decibars.
SIG-TH	kg/m3	Potential density anomaly in kilograms/m^3. Obtained by computing the density anomaly at 0 pressure replacing the *in situ* temperature with potential temperature referenced to 0 dbars.
SIG-2	kg/m3	Potential density anomaly referenced to 2000 dbars in kilograms/m^3. Obtained by computing the density anomaly at 2000 dbars replacing the *in situ* temperature with potential temperature referenced to 2000 dbars.
SIG-4	kg/m3	Potential density anomaly referenced to 4000 dbars in kilograms/m^3. Obtained by computing the density anomaly at 4000 dbars replacing the *in situ* temperature with potential temperature referenced to 4000 dbars.
CTDSAL		Salinity (S) computed from conductivity (C), temperature and pressure measured by the CTD sensor according to the 1978 practical salinity scale (Fofonoff and Millard, 1983). C(35,15,0) = 42.914 mmho/cm.
SALNTY		Water sample salinities measured with a Guildline Autosal 8400A, using PSS-78 conversion tables. Values are corrected by +.0008, for SSW Batch P-97 offset (Mantyla, 1987).
OXYGEN	ml/l*	Water sample dissolved oxygen measurements in milliliters per liter as described by Knapp, et al. (1989).
SILCAT	μM/l*	Water sample silicate measurements in micromoles per liter as described in the section on nutrients.
PHSPHT	μM/l*	Water sample phosphate measurements in micromoles per liter as described in the section on nutrients.
NITRAT	μM/l*	Water sample nitrate measurements in micromoles per liter as described in the section on nutrients.

Appendix C: Continued.

NITRIT	μM/l*	Water sample nitrite measurements in micro-moles per liter as described in the section on nutrients.
CFC-11	pM/kg	Water sample chlorofluorcarbon (Freon-11) measurements made in pico-moles per kilogram as described in the section on CFCs.
CFC-12	pM/kg	Water sample chlorofluorcarbon (Freon-12) measurements made in pico-moles per kilogram as described in the section on CFCs.
DEPTH	m	The depth of the pressure interval including the local gravity and dynamic height (see DYN-HT definition) corrections (Fofonoff and Millard, 1983).
QUALT1		A series of alphanumeric characters, one for each variable marked with a double asterisk, to indicate the quality of each measurement.

Quality Indicators

1 = Sample for this measurement was drawn but results of analysis not yet received.
2 = Acceptable measurement.
3 = Questionable measurement.
4 = Bad measurement.
5 = Not Reported.
6 = Mean of replicate measurements.
7 = Manual chromatographic peak integration.
8 = Irregular digital chromatographic peak integration.
9 = Sample not drawn for this measurement at this bottle.
A,B,C....Investigator specific descriptors.

* To convert ml/l of dissolved oxygen to μM/kg, multiply oxygen ml/l by 44.660 (1000/molar volume of oxygen at STP (Weiss, 1981) and divide the result by the density of the sea-water at the time the sample was pickled. If the temperature at this time is not known, the potential temperature may be used to calculate the density. To convert nutrients in μM/l to μM/kg divide by the density of the seawater sample at the time the sample is analyzed.

CRUISE: MW 893 STA: 3 DATE (D/M/Y): 9- 2-89 TIME: 1418 LAT: 7 59.54 N LONG: 126 32.88 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20278E-04 1/S SOUND SPEED= 1539.2 M/S Depth= 128 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.357	33.819	5.08	28.357	21.392	29.632	37.521	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.357	33.819	5.08	28.357	21.392	29.632	37.521	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.843	33.741	5.08	27.839	21.503	29.756	37.657	0.127	0.1	-62.72	-13.297	204.69	5.693	20.0
30	27.521	33.698	5.05	27.514	21.575	29.836	37.746	0.189	0.3	-5.33	-0.103	32.51	2.269	30.0
40	27.493	33.697	4.90	27.484	21.584	29.846	37.756	0.252	0.5	-2.05	-0.164	10.66	1.299	40.0
50	27.485	33.697	4.86	27.474	21.587	29.849	37.759	0.314	0.8	0.21	0.161	1.08	0.413	50.0
99	23.519	34.733	4.36	23.498	23.588	31.941	39.935	0.597	2.9	-177.68	47.748	1.08	0.000	99.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
3	11.4	28.241	28.239	21.459	29.701	37.592	33.855	33.866	4.93	1.81	0.09	0.59	0.01	1.894	0.910	11	222222222
2	52.1	27.473	27.461	21.593	29.856	37.766	33.699	33.699	4.82	2.22	0.12	0.09	0.01	1.803	0.912	51	222222222
1	103.9	23.187	23.166	23.671	32.033	40.036	34.715	34.765	4.29	3.53	0.38	2.58	0.12	1.720	0.862	103	222222222

CRUISE: MW 893 STA: 4 DATE (D/M/Y): 9- 2-89 TIME: 1443 LAT: 7 59.50 N LONG: 126 34.17 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20276E-04 1/S SOUND SPEED= 1512.4 M/S Depth= 473 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.312	33.884	4.55	28.312	21.456	29.697	37.586	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.312	33.884	4.55	28.312	21.456	29.697	37.586	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.643	33.701	4.79	27.639	21.537	29.795	37.702	0.126	0.1	-31.52	-4.985	127.77	4.498	20.0
30	27.567	33.702	4.79	27.560	21.563	29.824	37.732	0.189	0.3	-5.68	-0.716	25.59	2.013	30.0
40	27.499	33.701	4.81	27.490	21.585	29.847	37.756	0.251	0.5	-12.43	3.013	124.23	4.436	40.0
50	27.396	33.741	4.76	27.384	21.650	29.914	37.825	0.313	0.8	-3.54	1.348	42.68	2.600	50.0
100	24.788	34.897	4.25	24.766	23.336	31.652	39.614	0.591	2.9	-92.97	7.749	665.86	10.269	100.0
125	22.104	34.847	3.98	22.079	24.081	32.471	40.502	0.695	4.1	-111.89	-1.201	510.82	8.994	125.0
150	18.543	34.782	4.17	18.516	24.978	33.477	41.609	0.780	5.3	-112.95	-3.179	539.89	9.247	149.9
200	16.416	34.723	4.19	16.383	25.447	34.018	42.217	0.915	7.7	-18.54	-1.259	67.31	3.265	199.7
250	13.496	34.514	3.88	13.461	25.924	34.603	42.903	1.038	10.5	-71.80	-4.776	233.31	6.078	249.5
300	11.418	34.390	3.45	11.380	26.232	34.994	43.373	1.139	13.3	-37.24	-2.139	110.73	4.187	299.3
350	10.612	34.352	3.19	10.570	26.348	35.144	43.554	1.229	16.3	-32.92	-0.603	107.51	4.126	349.0
400	8.935	34.374	2.41	8.892	26.645	35.513	43.990	1.307	19.3	-8.71	1.689	54.91	2.949	398.7
450	8.224	34.490	1.84	8.178	26.847	35.745	44.250	1.376	22.3	-15.71	1.387	54.91	0.000	448.4
461	8.019	34.501	1.85	7.972	26.887	35.793	44.307	1.390	22.9	-18.77	1.510	54.91	0.000	459.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
10	10.6	28.237	28.235	21.483	29.725	37.616	33.886	0.000	4.86	1.71	0.10	0.49	0.01			10	222222255
9	50.0	27.381	27.370	21.652	29.916	37.828	33.739	33.737	4.85	2.12	0.14	0.68	0.02			49	222222255
8	150.7	18.413	18.387	25.014	33.517	41.653	34.787	34.785	4.22	6.04	0.56	6.77	0.03			149	222222255
7	201.2	16.339	16.307	25.445	34.019	42.221	34.697	34.717	4.26	8.16	0.68	8.80	0.00	1.841		199	222222225
6	302.0	11.272	11.234	26.274	35.042	43.426	34.410	34.382	3.39	25.79	1.52	20.79	0.01	1.317	0.617	300	222222222
5	401.6	8.909	8.866	26.653	35.521	43.999	34.378	34.381	2.36	41.30	2.14	29.48	0.02	0.441	0.275	398	222222222
4	463.1	8.007	7.960	26.891	35.798	44.312	34.504	34.500	1.78	47.95	2.50	34.49	0.01	0.133	0.069	459	222222222

CRUISE: MW 893 STA: 5 DATE (D/M/Y): 9- 2-89 TIME: 1557 LAT: 7 58.44 N LONG: 126 38.71 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20232E-04 1/S SOUND SPEED= 1498.0 M/S Depth= 1030 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.247	33.871	4.68	28.247	21.468	29.710	37.601	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.247	33.871	4.68	28.247	21.468	29.710	37.601	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.140	33.856	4.78	28.135	21.493	29.738	37.631	0.126	0.1	-9.30	0.533	68.04	3.286	20.0
30	28.042	33.861	4.82	28.035	21.529	29.777	37.672	0.189	0.3	-14.94	-1.323	76.70	3.489	30.0
40	27.879	33.823	4.84	27.869	21.555	29.806	37.706	0.252	0.5	-34.03	-10.667	59.78	3.080	40.0
50	27.600	33.795	4.86	27.589	21.624	29.883	37.789	0.314	0.8	-17.92	10.523	270.97	6.558	50.0
100	25.428	34.963	4.48	25.406	23.191	31.490	39.435	0.600	2.9	-127.55	16.880	1009.86	12.660	100.0
125	21.592	34.892	4.12	21.567	24.258	32.662	40.706	0.703	4.1	-64.15	-1.491	360.34	7.562	125.0
150	20.806	34.893	3.92	20.778	24.474	32.902	40.967	0.793	5.4	-163.33	-7.770	678.77	10.379	149.9
200	15.957	34.690	4.19	15.925	25.527	34.114	42.328	0.932	7.9	-51.78	-3.575	181.59	5.368	199.7
250	13.620	34.518	3.89	13.585	25.902	34.576	42.872	1.049	10.5	-26.02	-1.766	81.96	3.607	249.5
300	11.509	34.375	3.55	11.471	26.203	34.962	43.337	1.152	13.4	-64.08	-2.992	194.88	5.561	299.3
350	10.022	34.329	3.03	9.982	26.431	35.252	43.686	1.238	16.3	-19.71	-0.145	65.71	3.229	349.0
400	8.773	34.314	2.52	8.730	26.624	35.499	43.984	1.316	19.2	-16.21	1.100	70.61	3.348	398.7
450	8.751	34.502	1.78	8.702	26.776	35.650	44.133	1.387	22.3	-12.42	2.014	71.23	3.362	448.4
500	8.015	34.513	1.72	7.964	26.897	35.804	44.318	1.451	25.4	-6.69	0.485	28.65	2.132	498.1
600	7.200	34.526	1.90	7.141	27.026	35.971	44.520	1.569	32.0	-7.77	0.142	25.88	2.027	597.4
700	6.563	34.532	1.97	6.497	27.119	36.093	44.671	1.676	39.1	-6.55	0.034	19.05	1.739	696.6
800	5.591	34.533	2.03	5.522	27.243	36.265	44.886	1.774	46.6	-9.93	0.169	30.21	2.190	795.8
900	4.651	34.550	2.11	4.579	27.366	36.434	45.100	1.861	54.1	-8.26	0.106	23.45	1.929	894.9
1000	4.101	34.560	2.15	4.025	27.434	36.530	45.222	1.937	61.5	-3.25	0.081	23.45	0.000	994.0
1031	4.040	34.561	2.15	3.962	27.441	36.541	45.236	1.960	63.9	-4.30	0.107	23.45	0.000	1024.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	26.3	27.965	27.959	21.540	29.789	37.686	33.842	33.841		1.81	0.09	0.08	0.02			26	225222255
23	51.3	27.368	27.356	21.738	30.001	37.912	33.847	33.849	4.91	2.01	0.12	0.08	0.02			51	222222255
22	74.9	26.771	26.754	22.081	30.357	38.280	34.048	34.048		2.22	0.15	0.24	0.06			74	225222255
21	99.8	24.437	24.416	23.522	31.847	39.815	35.004		4.44	2.01	0.24	0.28	0.22			99	252222255
20	124.8	21.226	21.202	24.357	32.772	40.826	34.891	34.897	3.97	4.13	0.46	3.95	0.05			124	222222255
19	160.4	17.111	17.085	25.309	33.856	42.032	34.758	34.777	4.32	6.35	0.59	6.88	0.02			159	222222255
18	200.2	15.810	15.779	25.552	34.144	42.363	34.679	34.680	4.25	9.47	0.75	9.18	0.02			198	222222255
17	249.1	13.479	13.444	25.896	34.576	42.878	34.473	34.511	3.93	15.82	1.09	14.08	0.02			247	222222255
16	299.6	11.404	11.366	26.223	34.986	43.366	34.376	34.373	3.50	24.18	1.47	19.58	0.02			297	222222255
15	401.7	8.678	8.635	26.684	35.563	44.051	34.372	34.329	2.36	44.63	2.21	29.58	0.02			399	222222255
14	500.5	7.943	7.892	26.917	35.827	44.344	34.525	34.513	1.75	47.65	2.50	34.08	0.02			497	222222255
13	609.0	6.794	6.736	27.085	36.048	44.615	34.530	34.527	1.98	57.12	2.62	35.88	0.02		0.053	604	222222252
12	750.9	5.938	5.871	27.200	36.204	44.810	34.533	34.530	2.00	69.61	2.71	37.08	0.02	0.027		745	222222225
11	1031.0	4.040	3.962	27.442	36.542	45.237	34.563	34.562	2.15	104.47	2.85	38.98	0.02			1022	222222255

CRUISE: MW 893 STA: 6 DATE (D/M/Y): 9- 2-89 TIME: 1826 LAT: 7 59.74 N LONG: 126 49.96 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20286E-04 1/S SOUND SPEED= 1494.2 M/S Depth= 2858 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.505	33.967	4.56	28.505	21.454	29.689	37.574	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.505	33.967	4.56	28.505	21.454	29.689	37.574	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.504	33.958	4.72	28.499	21.450	29.685	37.570	0.127	0.1	-1.69	-0.308	6.47	1.012	20.0
30	28.477	33.953	4.70	28.470	21.456	29.692	37.577	0.190	0.3	-3.96	-0.290	21.53	1.846	30.0
40	28.457	33.953	4.69	28.447	21.464	29.700	37.586	0.254	0.5	-2.75	-0.402	11.97	1.376	40.0
50	28.407	33.953	4.69	28.395	21.481	29.718	37.605	0.317	0.8	-12.95	0.861	97.27	3.924	50.0
100	24.900	34.780	4.24	24.879	23.213	31.528	39.488	0.593	2.9	-76.31	7.327	569.74	9.496	100.0
125	22.557	34.968	4.06	22.532	24.045	32.421	40.438	0.702	4.1	-148.59	-5.241	736.48	10.797	125.0
150	18.862	34.780	3.62	18.835	24.896	33.385	41.508	0.789	5.3	-85.91	-4.735	372.11	7.675	149.9
200	14.756	34.585	4.09	14.726	25.712	34.343	42.599	0.924	7.7	-57.22	-3.026	207.94	5.737	199.7
250	12.957	34.465	3.64	12.923	25.995	34.695	43.015	1.035	10.3	-48.11	-3.402	141.75	4.737	249.5
300	9.534	34.297	2.90	9.500	26.487	35.329	43.783	1.128	12.9	-44.89	-0.930	142.53	4.750	299.3
350	8.976	34.313	2.56	8.938	26.591	35.457	43.933	1.204	15.4	-3.86	0.007	12.81	1.424	349.0
400	8.459	34.311	2.34	8.417	26.670	35.560	44.058	1.279	18.3	-17.27	0.321	60.60	3.097	398.7
450	8.688	34.505	1.77	8.640	26.788	35.664	44.150	1.348	21.3	5.74	5.007	59.19	3.061	448.4
500	8.003	34.546	1.74	7.952	26.925	35.832	44.346	1.412	24.4	-14.96	1.159	65.45	3.219	498.0
600	7.042	34.554	1.89	6.985	27.070	36.021	44.577	1.525	30.7	-8.49	-0.213	22.38	1.882	597.3
700	6.310	34.538	2.04	6.246	27.156	36.143	44.731	1.629	37.6	-7.35	-0.096	20.08	1.783	696.6
800	5.591	34.538	2.00	5.522	27.247	36.269	44.890	1.725	44.9	-6.66	0.009	18.98	1.733	795.8
900	5.088	34.540	2.04	5.013	27.309	36.356	45.001	1.814	52.6	-4.55	0.140	14.65	1.523	894.9
1000	4.670	34.554	2.13	4.589	27.369	36.436	45.101	1.898	60.8	-4.53	0.078	13.32	1.452	994.0
1200	4.036	34.570	2.22	3.943	27.450	36.551	45.246	2.052	78.0	-2.63	0.020	7.29	1.074	1191.9
1400	3.523	34.580	2.27	3.418	27.511	36.638	45.359	2.195	96.9	-2.78	0.086	8.63	1.169	1389.7
1600	3.050	34.596	2.39	2.933	27.569	36.722	45.467	2.326	116.9	-2.73	0.042	7.79	1.111	1587.3
1800	2.515	34.611	2.49	2.388	27.628	36.810	45.583	2.444	137.5	-1.90	0.118	6.86	1.042	1784.7
2000	2.332	34.622	2.60	2.191	27.653	36.846	45.628	2.555	158.8	-1.56	0.052	4.93	0.883	1982.0
2200	2.094	34.634	2.74	1.939	27.683	36.889	45.684	2.659	181.2	-0.62	0.031	2.13	0.581	2179.0
2400	1.889	34.645	2.92	1.719	27.709	36.927	45.734	2.759	204.6	-0.76	0.041	2.77	0.662	2375.8
2600	1.832	34.649	2.99	1.646	27.718	36.941	45.751	2.855	229.2	-0.30	0.018	1.14	0.424	2572.5
2800	1.807	34.652	2.98	1.602	27.724	36.948	45.761	2.952	255.7	-0.30	0.019	1.14	0.000	2768.9
2829	1.778	34.654	3.01	1.571	27.727	36.954	45.768	2.966	259.7	-0.26	0.017	1.14	0.000	2797.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	11.3	28.490	28.488	21.455	29.690	37.575	33.959	33.959	4.60	1.61	0.10	0.00	0.00			11	222222255
23	51.0	28.040	28.028	21.609	29.855	37.750	33.965	33.976	4.68	2.01	0.10	0.10	0.00			50	222222255
22	80.7	26.317	26.299	22.743	31.023	38.949	34.737	34.731	4.44	2.01	0.21	0.19	0.01			80	222222255
21	99.8	24.211	24.190	23.541	31.872	39.847	34.939	34.803	4.14	2.92	0.35	1.20	0.30			99	222222255
20	124.9	22.224	22.199	24.157	32.543	40.568	34.992	34.974	3.98	3.53	0.42	2.83	0.07	1.742	0.886	124	222222222
19	200.0	14.849	14.819	25.720	34.347	42.599	34.621	34.610	4.02	10.48	0.91	11.30	0.00			198	222222255
18	298.9	9.432	9.399	26.515	35.361	43.819	34.312	34.307	2.75	37.37	1.98	26.30	0.00			297	222222255
17	399.5	8.287	8.246	26.705	35.602	44.106	34.322	34.319	2.21	48.15	2.28	31.00	0.00			396	222222255
16	498.2	7.805	7.755	26.966	35.882	44.404	34.562	34.560	1.76	46.04	2.56	35.40	0.00			494	222222255
15	597.8	7.102	7.044	27.071	36.019	44.572	34.566	34.556	1.82	50.97	2.65	36.50	0.00			593	222222255
14	697.6	6.483	6.418	27.136	36.115	44.696	34.542	34.544	2.01	57.02	2.69	36.90	0.00			692	222222255
13	797.0	5.643	5.574	27.240	36.259	44.878	34.536	34.537	2.01	70.62	2.80	38.50	0.00			791	222222255
12	896.4	5.075	5.001	27.310	36.357	45.003	34.539	34.539	2.04	82.41	2.82	38.91	-0.01	0.005	0.021	889	222222222
11	996.3	4.713	4.632	27.361	36.426	45.089	34.550	34.550	2.05	89.56	2.85	39.21	-0.01			988	222222255
10	1195.7	4.044	3.952	27.450	36.550	45.245	34.570	34.569	2.22	103.06	2.89	39.21	-0.01			1185	222222255
9	1396.2	3.543	3.438	27.512	36.638	45.358	34.584	34.581	2.27	112.93	2.88	39.60	0.00			1383	222222255
8	1597.1	2.871	2.756	27.585	36.748	45.501	34.597	34.596	2.35	129.55	2.88	39.70	0.00	0.017	0.007	1582	222222222
7	1796.9	2.510	2.383	27.630	36.813	45.585	34.613	34.613	2.48	136.20	2.86	39.60	0.00			1779	222222255
6	1996.3	2.346	2.205	27.651	36.843	45.624	34.620	34.624	2.59	139.12	2.85	39.50	0.00			1975	222222255
4	2502.0	1.846	1.669	27.716	36.937	45.746	34.649	34.650	2.95		2.79	38.70	0.00	0.013	0.012	2473	222522222
3	2654.2	1.823	1.632	27.721	36.944	45.755	34.652	34.652	3.00	147.08	2.77	38.50	0.00			2622	222222255
2	2753.7	1.807	1.607	27.723	36.947	45.759	34.652	34.654	3.02	147.28	2.77	38.50	0.00			2720	222222255
1	2826.3	1.777	1.571	27.728	36.955	45.768	34.655	34.659	3.03	147.28	2.77	38.40	0.00	0.000	-0.012	2791	222222252

CRUISE: MW 893 STA: 7 DATE (D/M/Y): 9- 2-89 TIME: 2255 LAT: 8 0.15 N LONG: 127 5.03 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20304E-04 1/S SOUND SPEED= 1512.3 M/S Depth= 5983 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.445	33.814	4.33	28.445	21.360	29.598	37.485	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.445	33.814	4.33	28.445	21.360	29.598	37.485	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.483	33.966	4.72	28.478	21.463	29.698	37.583	0.127	0.1	-0.22	0.064	2.40	0.617	20.0
30	28.485	33.966	4.73	28.478	21.463	29.699	37.584	0.190	0.3	-0.15	0.052	1.77	0.529	30.0
40	28.486	33.967	4.71	28.476	21.464	29.700	37.585	0.254	0.5	-0.39	0.035	3.11	0.701	40.0
50	28.483	33.967	4.63	28.471	21.466	29.702	37.587	0.317	0.8	-3.66	2.094	55.14	2.953	50.0
100	23.451	34.871	4.10	23.431	23.712	32.065	40.060	0.577	2.7	-109.25	2.841	670.19	10.295	100.0
125	20.463	34.822	3.75	20.439	24.511	32.950	41.026	0.672	3.8	-118.51	-0.443	633.77	10.012	124.9
150	17.809	34.772	3.59	17.784	25.152	33.675	41.829	0.750	4.9	-101.78	-5.651	405.68	8.010	149.9
200	13.771	34.552	3.14	13.743	25.895	34.563	42.853	0.872	7.1	-76.15	-5.111	236.84	6.120	199.7
250	10.146	34.321	2.91	10.117	26.402	35.217	43.646	0.966	9.2	-31.27	-0.389	104.33	4.062	249.4
300	8 690	34.330	2.25	8.658	26.648	35.526	44.014	1.045	11.4	-28.78	0.053	94.02	3.856	299.2
350	8.656	34.509	1.67	8.619	26.794	35.671	44.158	1.113	13.7	1.14	2.790	39.75	2.507	348.9
400	8.371	34.588	1.56	8.329	26.901	35.790	44.288	1.177	16.1	-3.74	0.926	26.38	2.043	398.6
450	8.170	34.595	1.53	8.124	26.938	35.836	44.342	1.237	18.7	-5.88	-0.164	16.17	1.599	448.3
500	7.787	34.581	1.76	7.736	26.984	35.900	44.423	1.296	21.6	-8.26	-0.303	21.18	1.830	497.9
600	6.990	34.548	1.95	6.933	27.072	36.026	44.584	1.408	27.9	-7.94	-0.217	20.54	1.802	597.2
700	6.266	34.540	1.97	6.202	27.163	36.152	44.742	1.512	34.7	-6.26	0.023	18.65	1.717	696.5
800	5.748	34.537	1.98	5.678	27.227	36.241	44.855	1.609	42.1	-5.68	0.015	16.16	1.599	795.6
900	5.096	34.550	2.10	5.021	27.316	36.362	45.007	1.698	49.9	-4.65	0.162	15.42	1.562	894.8
1000	4.799	34.557	2.16	4.717	27.356	36.418	45.076	1.782	58.1	-2.91	0.049	8.64	1.169	993.8
1200	4.239	34.562	2.14	4.144	27.423	36.513	45.199	1.942	75.9	-3.39	0.047	9.83	1.247	1191.8
1400	3.572	34.580	2.22	3.467	27.505	36.631	45.349	2.087	95.2	-2.91	0.087	9.04	1.196	1389.6
1600	3.009	34.592	2.32	2.893	27.569	36.724	45.471	2.219	115.3	-1.83	0.111	6.61	1.022	1587.2
1800	2.633	34.602	2.39	2.505	27.612	36.788	45.554	2.341	136.4	-2.53	0.077	7.93	1.120	1784.6
2000	2.397	34.620	2.54	2.254	27.647	36.836	45.615	2.453	158.2	-1.33	0.038	4.12	0.808	1981.8
2200	2.126	34.632	2.68	1.970	27.680	36.884	45.678	2.560	181.0	-1.31	0.061	4.53	0.846	2178.9
2400	1.928	34.643	2.82	1.758	27.704	36.921	45.725	2.660	204.7	-1.14	0.055	4.01	0.796	2375.7
2600	1.775	34.652	2.98	1.590	27.724	36.950	45.763	2.756	229.1	-0.50	0.031	1.91	0.549	2572.4
2800	1.692	34.659	3.11	1.490	27.737	36.968	45.786	2.850	254.9	-0.53	0.037	2.13	0.580	2768.8
3000	1.638	34.664	3.20	1.419	27.746	36.981	45.803	2.942	282.1	-0.35	0.024	1.42	0.474	2965.1
3200	1.581	34.669	3.33	1.343	27.756	36.995	45.821	3.033	310.9	-0.25	0.018	1.07	0.411	3161.2
3400	1.563	34.672	3.40	1.306	27.761	37.002	45.829	3.124	341.5	-0.15	0.009	0.64	0.317	3357.2
3600	1.548	34.675	3.46	1.271	27.766	37.009	45.838	3.215	374.0	-0.19	0.016	0.86	0.369	3552.9
3800	1.554	34.676	3.50	1.255	27.768	37.012	45.842	3.307	408.6	-0.05	0.006	0.27	0.205	3748.5
4000	1.567	34.677	3.51	1.246	27.769	37.014	45.844	3.399	445.5	-0.03	0.002	0.12	0.140	3943.9
4200	1.584	34.678	3.52	1.241	27.770	37.015	45.845	3.494	484.9	-0.02	0.002	0.09	0.120	4139.2
4400	1.604	34.678	3.54	1.238	27.770	37.015	45.846	3.590	527.0	-0.01	0.001	0.04	0.080	4334.3
4600	1.627	34.678	3.54	1.236	27.771	37.016	45.847	3.687	571.9	-0.01	0.001	0.05	0.092	4529.2
4800	1.649	34.678	3.55	1.234	27.771	37.016	45.847	3.787	619.7	-0.01	0.001	0.06	0.099	4723.9
5000	1.674	34.678	3.56	1.234	27.771	37.016	45.847	3.889	670.4	0.00	0.000	0.02	0.050	4918.5
5200	1.699	34.678	3.57	1.233	27.771	37.016	45.848	3.992	724.3	0.00	0.000	0.01	0.042	5112.9
5400	1.725	34.678	3.57	1.233	27.771	37.016	45.847	4.098	781.3	0.00	0.000	0.00	-0.027	5307.2
5600	1.750	34.678	3.58	1.232	27.771	37.016	45.847	4.205	841.7	-0.01	0.000	0.04	0.075	5501.3
5800	1.778	34.678	3.60	1.232	27.771	37.016	45.847	4.315	905.5	0.00	-0.001	-0.02	-0.050	5695.2
5927	1.795	34.678	3.54	1.232	27.771	37.016	45.847	4.386	947.9	0.00	-0.001	-0.02	0.000	5818.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.680	28.680	21.369	29.601	37.482	33.930	33.944	4.65					1.706	0.856	1	222555522
23	25.5	28.465	28.458	21.452	29.688	37.574	33.943	33.946	4.69	1.71	0.11	0.00	0.00		0.929	25	222222252
22	75.3	25.826	25.809	22.854	31.147	39.085	34.682	34.663	4.27	2.42	0.27	0.03	0.07		0.840	74	222222252
21	100.8	24.334	24.313	23.375	31.705	39.679	34.769	34.761	4.21	3.02	0.33	0.72	0.38	1.684	0.845	100	222222222
20	124.1	22.470	22.445	23.951	32.332	40.353	34.812	34.856	3.94	4.13	0.44	3.05	0.15	1.704	0.889	123	222222222
19	148.6	19.656	19.628	24.733	33.197	41.296	34.834	34.836	3.75	6.45	0.69	6.86	0.04	1.761	0.835	147	222222222
18	200.0	14.942	14.912	25.688	34.312	42.562	34.606	34.611	3.62	12.89	1.06	13.29	0.01	1.735	0.754	198	222222222
17	248.0	10.765	10.735	26.318	35.108	43.511	34.352	34.359	3.11	26.60	1.70	22.20	0.00	1.009	0.460	246	222222222
15	397.3	8.380	8.339	26.900	35.789	44.286	34.589	34.580	1.87	42.71	2.53	35.10	0.00		0.047	394	222222252
14	497.4	7.782	7.732	26.984	35.901	44.424	34.581	34.579	1.79	44.53	2.55	35.59	0.01	0.096	0.060	494	222222222
13	749.2	5.927	5.860	27.204	36.209	44.815	34.536	34.538	2.01	65.98	2.75	38.19	0.01		0.017	743	222222252
12	996.4	4.740	4.659	27.362	36.426	45.088	34.556	34.559	2.20	90.77	2.79	38.69	0.01	0.021	0.020	988	222222222
11	1495.5	3.282	3.171	27.540	36.681	45.414	34.588	34.585	2.30	120.38	2.87	39.79	0.01		0.010	1481	222222252
10	1746.1	2.838	2.711	27.594	36.759	45.515	34.602	34.603	2.45	129.05	2.86	39.68	0.02		0.007	1729	222222252
9	1996.1	2.400	2.258	27.647	36.836	45.615	34.621	34.622	2.55	138.72	2.84	39.68	0.02		0.007	1975	222222252
8	2248.8	2.054	1.895	27.689	36.898	45.695	34.637	34.636	2.77	145.17	2.79	39.20	0.00		-0.003	2224	222222252
7	2499.4	1.814	1.637	27.720	36.943	45.753	34.651	34.650	2.96	148.09	2.75	38.80	0.00	-0.016	-0.011	2470	222222222
6	2751.0	1.698	1.501	27.736	36.966	45.784	34.658	34.659	3.13	148.49	2.69	38.40	0.00		-0.005	2717	222222252
4	4003.1	1.567	1.246	27.769	37.013	45.844	34.676	34.678	3.52	145.77	2.63	37.08	0.02		0.001	3943	222222252
3	5004.8	1.674	1.234	27.771	37.016	45.847	34.678	34.679	3.53	145.67	2.61	36.99	0.01		0.008	4919	222222252
2	5502.3	1.738	1.233	27.770	37.015	45.847	34.677	34.680	3.57	145.67	2.62	36.99	0.01		0.006	5402	222222252
1	5927.1	1.795	1.232	27.771	37.016	45.848	34.679		3.53	145.47	2.63	37.10	0.00		0.008	5813	252222252

CRUISE: MW 893 STA: 9 DATE (D/M/Y): 10- 2-89 TIME: 1335 LAT: 8 0.08 N LONG: 127 39.94 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20301E-04 1/S SOUND SPEED= 1511.3 M/S Depth= 5793 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.356	33.789	4.58	28.356	21.370	29.610	37.500	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.356	33.789	4.58	28.356	21.370	29.611	37.500	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.380	33.794	4.78	28.376	21.367	29.607	37.496	0.128	0.1	-0.09	-0.013	0.41	0.256	20.0
30	28.372	33.797	4.76	28.365	21.373	29.613	37.503	0.193	0.3	-3.42	1.807	49.24	2.791	30.0
40	28.315	33.954	4.78	28.306	21.511	29.750	37.639	0.257	0.5	-23.45	50.196	901.28	11.940	40.0
50	28.068	34.214	4.68	28.056	21.787	30.030	37.922	0.318	0.8	-27.26	-0.829	164.30	5.098	50.0
100	22.453	34.832	4.08	22.433	23.970	32.350	40.371	0.570	2.7	-145.06	1.702	836.29	11.501	100.0
125	18.193	34.770	3.64	18.171	25.054	33.565	41.708	0.658	3.7	-160.00	-5.187	769.49	11.032	124.9
150	16.097	34.666	3.43	16.073	25.475	34.057	42.267	0.726	4.6	-85.01	-5.434	300.80	6.898	149.8
200	12.531	34.480	3.08	12.504	26.088	34.804	43.140	0.836	6.6	-66.78	-3.692	204.38	5.686	199.6
250	9.886	34.369	2.53	9.857	26.484	35.309	43.747	0.924	8.6	-46.40	-2.190	123.80	4.425	249.4
300	8.317	34 405	1.88	8.286	26.764	35.658	44.160	0.996	10.6	-12.87	2.429	78.44	3.522	299.1
350	8.108	34.536	1.66	8.072	26.899	35.800	44.310	1.060	12.7	-0.19	2.417	38.16	2.457	348.8
400	7.938	34.558	1.66	7.897	26.943	35.852	44.368	1.119	15.0	-1.71	0.979	20.56	1.803	398.5
450	7.609	34.560	1.84	7.564	26.993	35.917	44.447	1.177	17.5	-6.84	-0.213	17.69	1.673	448.2
500	7.399	34.562	1.89	7.350	27.025	35.959	44.499	1.233	20.2	-7.34	-0.407	15.97	1.589	497.9
600	6.783	34.543	1.98	6.726	27.097	36.060	44.627	1.342	26.3	-6.20	0.080	19.61	1.761	597.1
700	6.227	34.535	2.02	6.163	27.165	36.155	44.748	1.444	33.1	-4.82	-0.035	13.28	1.450	696.4
800	5.688	34.539	1.99	5.618	27.236	36.253	44.870	1.541	40.5	-5.72	0.016	16.59	1.620	795.6
900	5.227	34.545	2.06	5.151	27.297	36.337	44.976	1.631	48.3	-5.78	0.117	17.66	1.671	894.7
1000	4.670	34.556	2.13	4.589	27.370	36.437	45.102	1.715	56.5	-2.92	0.159	10.49	1.288	993.8
1200	4.239	34.566	2.20	4.144	27.426	36.516	45.202	1.873	74.1	-2.81	0.040	8.08	1.131	1191.8
1400	3.603	34.579	2.22	3.497	27.502	36.625	45.343	2.019	93.4	-2.54	0.076	7.93	1.120	1389.6
1600	3.253	34.591	2.32	3.133	27.547	36.689	45.424	2.153	113.9	-1.52	0.040	4.64	0.857	1587.2
1800	2.769	34.607	2.46	2.639	27.604	36.773	45.532	2.279	135.8	-3.04	0.092	9.55	1.229	1784.6
2000	2.374	34.623	2.56	2.232	27.651	36.842	45.622	2.393	157.8	-1.69	0.053	5.35	0.920	1981.8
2200	2.063	34.636	2.74	1.908	27.687	36.895	45.692	2.498	180.3	-1.16	0.057	4.04	0.799	2178.8
2400	1.886	34.647	2.91	1.717	27.710	36.929	45.735	2.597	203.7	-0.87	0.050	3.19	0.711	2375.6
2600	1.763	34.654	3.08	1.578	27.727	36.953	45.766	2.693	228.0	-0.67	0.037	2.50	0.629	2572.3
2800	1.675	34.661	3.20	1.473	27.740	36.972	45.791	2.786	253.6	-0.45	0.032	1.82	0.537	2768.8
3000	1.614	34.666	3.33	1.395	27.750	36.986	45.809	2.877	280.7	-0.39	0.025	1.57	0.499	2965.1
3200	1.571	34.670	3.43	1.333	27.757	36.997	45.823	2.968	309.3	-0.20	0.015	0.85	0.367	3161.2
3400	1.552	34.673	3.50	1.295	27.763	37.004	45.832	3.058	339.7	-0.17	0.013	0.73	0.339	3357.1
3600	1.548	34.675	3.55	1.270	27.766	37.009	45.838	3.149	372.0	-0.10	0.008	0.44	0.263	3552.9
3800	1.552	34.677	3.57	1.253	27.768	37.012	45.843	3.240	406.6	-0.05	0.005	0.25	0.201	3748.5
4000	1.567	34.677	3.58	1.246	27.769	37.014	45.844	3.333	443.4	-0.03	0.002	0.14	0.149	3943.9
4200	1.585	34.678	3.59	1.241	27.770	37.015	45.846	3.427	482.9	-0.02	0.002	0.09	0.122	4139.1
4400	1.606	34.678	3.59	1.239	27.771	37.015	45.846	3.523	525.0	-0.01	0.001	0.04	0.079	4334.2
4600	1.629	34.679	3.59	1.239	27.771	37.016	45.847	3.621	569.9	0.00	0.000	0.00	0.023	4529.1
4800	1.654	34.678	3.59	1.239	27.771	37.015	45.846	3.721	617.7	0.00	0.000	0.01	0.045	4723.9
5000	1.678	34.679	3.58	1.238	27.771	37.016	45.847	3.822	668.5	0.00	0.000	0.02	0.049	4918.4
5200	1.704	34.679	3.59	1.238	27.771	37.016	45.847	3.926	722.4	0.00	-0.002	-0.02	-0.061	5112.9
5400	1.730	34.678	3.59	1.238	27.771	37.016	45.847	4.032	779.6	0.00	0.000	0.01	0.046	5307.1
5600	1.756	34.678	3.58	1.237	27.771	37.016	45.847	4.140	840.0	0.00	-0.001	0.00	-0.025	5501.2
5800	1.783	34.678	3.57	1.237	27.771	37.016	45.847	4.249	903.9	0.00	-0.001	0.00	0.000	5695.1
5817	1.785	34.678	3.56	1.237	27.771	37.016	45.847	4.259	909.5	0.00	-0.001	0.00	0.000	5711.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.5	28.341	28.339	21.433	29.673	37.562	33.865	33.867	4.79	1.31	0.10	-0.02	0.02			9	222222255
23	74.3	25.549	25.532	22.961	31.260	39.204	34.709	34.711	4.59	2.01	0.24	0.08	0.02			73	222222255
22	99.9	22.630	22.610	23.992	32.366	40.382	34.927	34.846	4.49	3.32	0.41	1.77	0.33			99	222222255
21	123.6	19.500	19.478	24.777	33.245	41.349	34.840	34.823	3.67	6.65	0.70	7.53	0.07			122	222222255
20	151.1	16.819	16.795	25.361	33.917	42.104	34.736	34.720	3.40	10.78	0.99	12.18	0.02			150	222222255
19	201.5	12.986	12.958	26.015	34.713	43.032	34.500	34.525		18.84	1.45	18.90	0.00			200	225222255
18	295.9	8.381	8.351	26.760	35.651	44.150	34.413	34.376	1.95	48.36	2.40	32.99	0.01			294	222222255
17	395.9	8.016	7.976	26.936	35.842	44.355	34.565	34.561	1.70	45.23	2.56	35.69	0.01			393	222222255
16	497.9	7.479	7.430	27.009	35.939	44.475	34.556	34.559	1.89	47.65	2.60	36.29	0.01			494	222222255
15	596.3	6.802	6.745	27.089	36.052	44.618	34.537	34.538	1.92	55.41	2.65	37.09	0.01			592	222222255
14	695.6	6.230	6.167	27.165	36.155	44.747	34.536	34.532	1.98	62.96	2.75	38.09	0.01			690	222222255
13	801.4	5.684	5.614	27.234	36.251	44.869	34.536	34.535	1.97	71.12	2.81	38.89	0.01			795	222222255
12	899.1	5.146	5.071	27.308	36.352	44.994	34.547	34.547	2.21	81.50	2.78	38.89	0.01	-0.016	0.009	892	222222222
11	995.9	4.678	4.598	27.369	36.437	45.101	34.556	34.556	2.20	90.87	2.80	39.08	0.02			987	222222255
9	1998.5	2.380	2.238	27.650	36.841	45.620	34.623	34.624	2.60	138.72	2.87	39.90	0.00			1977	222222255
8	2496.6	1.856	1.679	27.716	36.937	45.745	34.650	34.645	3.02	147.99	2.79	39.09	0.01	0.010	0.003	2467	222222222
7	2999.1	1.606	1.387	27.751	36.988	45.811	34.667	34.668	3.33	147.79	2.71	38.20	0.00			2961	222222255
6	3502.4	1.548	1.281	27.765	37.008	45.837	34.675	34.674	3.55	146.88	2.65	37.60	0.00			3454	222222255
4	4501.3	1.617	1.238	27.771	37.016	45.847	34.679	34.677	3.54	145.47	2.63	37.50	0.00	-0.004	0.012	4429	222222222
3	4997.4	1.677	1.237	27.771	37.016	45.847	34.679	34.678	3.58	147.38	2.64	37.39	0.01			4912	222222255
2	5500.0	1.743	1.238	27.770	37.015	45.846	34.678	34.678	3.60	146.68	2.64	37.49	0.01			5399	222222255
1	5817.4	1.785	1.237	27.771	37.016	45.847	34.678	34.677	3.56	145.77	2.63	46.40		-0.007	0.000	5707	222222525

CRUISE: MW 893 STA: 10 DATE (D/M/Y): 10- 2-89 TIME: 2019 LAT: 8 0.00 N LONG: 128 0.20 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20297E-04 1/S SOUND SPEED= 1504.0 M/S Depth= 4752 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.142	33.861	4.43	28.142	21.494	29.739	37.632	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.142	33.861	4.43	28.142	21.494	29.739	37.632	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.173	33.852	4.26	28.168	21.479	29.723	37.616	0.126	0.1	-0.23	-0.019	1.24	0.444	20.0
30	28.176	33.852	4.28	28.169	21.478	29.722	37.615	0.189	0.3	0.57	-0.058	-4.59	-0.852	30.0
40	28.181	33.851	4.25	28.171	21.478	29.721	37.614	0.253	0.5	-0.10	-0.017	0.39	0.249	40.0
50	28.185	33.851	4.18	28.173	21.477	29.721	37.614	0.316	0.8	0.19	0.042	-0.60	-0.309	50.0
100	23.472	34.791	3.84	23.451	23.646	31.999	39.994	0.587	2.8	-130.76	5.129	826.31	11.433	100.0
125	19.936	34.860	3.60	19.913	24.679	33.133	41.224	0.680	3.9	-117.12	-1.395	579.64	9.576	125.0
150	17.078	34.732	3.25	17.053	25.297	33.845	42.023	0.754	4.9	-77.89	-4.592	271.04	6.548	149.9
200	12.485	34.446	3.31	12.458	26.071	34.790	43.127	0.869	7.0	-76.84	-5.082	225.19	5.969	199.7
250	9.743	34.323	2.63	9.715	26.472	35.304	43.749	0.958	9.0	-31.00	1.975	137.35	4.661	249.4
300	9.250	34.596	1.46	9.217	26.767	35.617	44.078	1.030	11.0	-4.63	2.296	50.97	2.840	299.2
350	8.423	34.548	1.68	8.387	26.860	35.748	44.243	1.094	13.1	-12.84	-0.491	33.64	2.307	348.9
400	8.192	34.580	1.72	8.151	26.921	35.819	44.324	1.155	15.5	-8.07	-0.497	17.76	1.676	398.6
450	7.795	34.573	1.78	7.750	26.976	35.892	44.414	1.214	18.0	-7.74	0.040	24.54	1.970	448.2
500	7.465	34.563	1.88	7.416	27.016	35.948	44.484	1.271	20.8	-7.04	-0.217	18.09	1.692	497.9
600	6.875	34.536	1.90	6.818	27.079	36.038	44.601	1.380	26.9	-5.84	-0.064	16.31	1.606	597.2
700	6.330	34.542	2.01	6.266	27.157	36.142	44.730	1.483	33.7	-5.16	-0.076	13.83	1.479	696.4
800	5.812	34.533	2.11	5.741	27.216	36.227	44.839	1.580	41.2	-6.14	-0.075	16.20	1.601	795.6
900	5.264	34.539	2.04	5.188	27.288	36.326	44.963	1.672	49.1	-4.65	0.044	13.56	1.465	894.7
1000	4.836	34.542	2.06	4.754	27.340	36.400	45.057	1.759	57.5	-3.71	0.071	11.25	1.334	993.8
1200	4.217	34.564	2.16	4.122	27.426	36.518	45.205	1.920	75.5	-3.17	0.092	9.99	1.257	1191.8
1400	3.665	34.580	2.26	3.558	27.496	36.617	45.331	2.066	94.9	-3.02	0.076	9.22	1.208	1389.6
1600	3.217	34.592	2.34	3.099	27.550	36.695	45.432	2.200	115.4	-2.29	0.065	7.08	1.058	1587.2
1800	2.668	34.607	2.43	2.539	27.612	36.786	45.551	2.324	136.8	-2.63	0.096	8.51	1.160	1784.6
2000	2.297	34.625	2.57	2.156	27.659	36.854	45.637	2.435	158.4	-1.66	0.092	5.87	0.964	1981.8
2200	2.069	34.639	2.74	1.914	27.689	36.897	45.693	2.539	180.6	-0.85	0.039	2.91	0.679	2178.9
2400	1.940	34.646	2.84	1.769	27.706	36.922	45.725	2.638	203.9	-0.68	0.033	2.39	0.615	2375.7
2600	1.790	34.654	2.97	1.605	27.725	36.949	45.761	2.735	228.5	-0.57	0.030	2.11	0.577	2572.3
2800	1.695	34.661	3.09	1.493	27.739	36.970	45.787	2.829	254.4	-0.68	0.037	2.57	0.638	2768.8
3000	1.641	34.665	3.17	1.422	27.747	36.982	45.803	2.921	281.6	-0.27	0.016	1.06	0.409	2965.1
3200	1.586	34.670	3.27	1.348	27.756	36.995	45.820	3.012	310.5	-0.32	0.022	1.34	0.460	3161.2
3400	1.551	34.674	3.34	1.294	27.763	37.005	45.833	3.103	341.0	-0.27	0.021	1.19	0.433	3357.2
3600	1.545	34.676	3.41	1.267	27.767	37.010	45.840	3.193	373.3	-0.09	0.009	0.45	0.266	3552.9
3800	1.550	34.678	3.44	1.252	27.769	37.013	45.843	3.285	407.8	-0.05	0.005	0.23	0.191	3748.5
4000	1.565	34.678	3.47	1.244	27.770	37.015	45.846	3.377	444.6	-0.02	0.002	0.11	0.131	3943.9
4200	1.585	34.678	3.50	1.241	27.770	37.015	45.846	3.471	484.0	-0.01	0.002	0.07	0.103	4139.2
4400	1.605	34.679	3.53	1.239	27.771	37.016	45.847	3.567	526.1	-0.01	0.002	0.06	0.097	4334.3
4600	1.628	34.679	3.56	1.237	27.771	37.016	45.847	3.665	570.9	0.00	0.001	0.04	0.081	4529.2
4761	1.648	34.679	3.59	1.237	27.771	37.016	45.847	3.745	609.1	0.00	0.000	0.04	0.000	4685.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.7	28.169	28.169	21.483	29.727	37.620	33.857	33.857	4.93	1.51	0.11	0.10	0.00			2	222222255
23	73.6	23.142	23.127	23.727	32.089	40.092	34.773	34.808	4.24	3.32	0.36	1.15	0.15			73	222222255
22	101.1	20.018	19.999	24.664	33.116	41.203	34.870	34.866	3.80	5.54	0.63	6.04	0.26			100	222222255
21	124.4	17.147	17.127	25.285	33.830	42.005	34.739	34.737	3.48	10.07	0.92	11.09	0.01			123	222222255
20	149.9	15.759	15.736	25.549	34.143	42.364	34.663	34.667	3.35	12.59	1.08	13.60	0.00			149	222222255
19	199.8	11.899	11.873	26.240	34.980	43.339	34.519			21.56	1.44	19.10	0.00			198	255222255
18	298.5	9.345	9.312	26.741	35.587	44.044	34.582	34.549	1.63	39.19	2.39	32.90	0.00			296	222222255
17	399.1	8.305	8.264	26.907	35.799	44.300	34.583	34.583	1.67	43.02	2.53	35.20	0.00			396	222222255
16	498.4	7.485	7.436	27.015	35.945	44.481	34.565	34.562	1.85	47.25	2.57	36.00	0.00			495	222222255
15	598.8	6.794	6.737	27.084	36.048	44.614	34.529			56.01	2.65	36.79	0.01			594	255222255
14	697.1	6.288	6.224	27.160	36.147	44.737	34.539	34.540	1.97	60.04	2.73	37.90	0.00			692	222222255
13	796.2	5.686	5.616	27.232	36.249	44.867	34.534	34.533	2.01	71.12	2.77	38.50	0.00			790	222222255
12	897.2	5.178	5.103	27.297	36.339	44.980	34.537	34.536	2.05	80.99	2.82	38.90	0.00	-0.015	-0.004	890	222222222
11	998.2	4.777	4.696	27.348	36.411	45.071	34.544	34.543	2.03	88.65	2.88	39.50	0.00			990	222222255
10	1246.3	4.064	3.967	27.445	36.545	45.239	34.567	34.567	2.20	103.76	2.87	39.60	0.00			1235	222222255
9	1496.0	3.392	3.280	27.530	36.665	45.393	34.588	34.586	2.34	115.65	2.88	39.90	0.00			1482	222222255
8	1740.1	2.909	2.782	27.588	36.749	45.501	34.603	34.602		126.43	2.89	39.80	0.00	0.019	-0.004	1723	225222222
7	1998.7	2.343	2.201	27.655	36.847	45.628	34.624	34.624	2.59	139.32	2.84	39.60	0.00			1978	222222255
6	2496.5	1.873	1.696	27.715	36.935	45.742	34.651	34.650	2.94	146.48	2.79	38.91	-0.01			2467	222222255
5	3000.6	1.642	1.422	27.747	36.982	45.803	34.665	34.665	3.24	147.58	2.71	38.11	-0.01	-0.015	-0.004	2962	222222222
4	3499.6	1.543	1.276	27.766	37.009	45.838	34.676	34.675	3.45	146.27	2.64	37.51	-0.01	0.004	0.000	3451	222222225
3	4001.8	1.564	1.243	27.770	37.014	45.845	34.678	34.677	3.47	145.97	2.64	37.41	-0.01			3942	222222255
2	4502.3	1.617	1.238	27.771	37.015	45.846	34.678	34.679	3.53	145.97	2.64	37.40	0.00			4430	222222255
1	4759.3	1.648	1.238	27.771	37.016	45.847	34.678	34.678	3.53	146.17	2.63	37.20	0.00	-0.015	0.003	4680	222222222

CRUISE: MW 893 STA: 11 DATE (D/M/Y): 11- 2-89 TIME: 0325 LAT: 8 0.39 N LONG: 128 30.30 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20314E-04 1/S SOUND SPEED= 1499.6 M/S Depth= 4023 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.223	33.727	4.94	28.223	21.367	29.611	37.504	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.223	33.727	4.94	28.223	21.367	29.611	37.504	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.232	33.735	4.95	28.227	21.372	29.616	37.509	0.128	0.1	-0.62	0.146	6.19	0.989	20.0
30	28.228	33.736	4.91	28.221	21.375	29.619	37.512	0.193	0.3	-0.35	2.212	35.28	2.362	30.0
40	28.192	33.909	4.89	28.182	21.517	29.760	37.652	0.257	0.5	-34.60	40.019	821.81	11.398	40.0
50	27.504	34.326	4.92	27.492	22.054	30.309	38.212	0.317	0.8	-119.66	33.408	1262.93	14.129	50.0
100	22.114	34.909	4.08	22.095	24.124	32.513	40.542	0.551	2.6	-87.72	2.981	535.81	9.203	100.0
125	19.928	34.875	3.85	19.905	24.693	33.147	41.237	0.640	3.6	-89.06	-4.452	403.74	7.989	124.9
150	17.111	34.750	3.82	17.086	25.303	33.849	42.026	0.715	4.6	-136.66	-8.733	530.16	9.154	149.8
200	12.852	34.589	2.93	12.825	26.110	34.812	43.135	0.827	6.6	-26.42	-0.023	106.24	4.098	199.6
250	11.462	34.499	2.54	11.431	26.307	35.066	43.441	0.921	8.7	-35.36	-2.178	99.49	3.966	249.4
300	10.064	34.507	1.87	10.029	26.563	35.379	43.809	1.003	11.0	-14.44	2.010	82.12	3.603	299.1
350	9.043	34.522	1.65	9.005	26.743	35.604	44.074	1.076	13.5	-20.99	0.873	83.77	3.639	348.8
400	8.575	34.586	1.44	8.532	26.868	35.748	44.238	1.141	15.9	-15.70	-1.322	29.57	2.162	398.5
450	7.785	34.515	1.72	7.740	26.932	35.849	44.372	1.202	18.6	-4.24	0.878	26.77	2.057	448.2
500	7.723	34.568	1.82	7.673	26.983	35.903	44.428	1.261	21.4	0.04	1.020	15.75	1.578	497.9
600	6.984	34.534	1.97	6.926	27.062	36.016	44.575	1.373	27.7	-7.28	-0.303	17.11	1.645	597.2
700	6.461	34.528	1.99	6.397	27.129	36.108	44.690	1.478	34.7	-4.26	-0.008	12.25	1.392	696.4
800	5.905	34.518	2.03	5.834	27.193	36.199	44.807	1.579	42.4	-4.94	-0.079	12.94	1.430	795.6
900	5.486	34.520	2.05	5.408	27.247	36.274	44.901	1.674	50.6	-3.87	0.064	11.93	1.373	894.7
1000	5.124	34.534	2.08	5.040	27.301	36.347	44.991	1.765	59.5	-4.73	0.020	13.45	1.458	993.8
1200	4.214	34.551	2.07	4.119	27.417	36.509	45.196	1.930	78.0	-3.70	0.092	11.37	1.341	1191.8
1400	3.478	34.579	2.28	3.373	27.514	36.644	45.367	2.076	97.3	-3.18	0.157	10.81	1.307	1389.6
1600	2.934	34.597	2.42	2.818	27.580	36.739	45.490	2.206	117.0	-2.54	0.098	8.18	1.137	1587.2
1800	2.549	34.611	2.49	2.422	27.625	36.806	45.576	2.323	137.4	-1.61	0.068	5.26	0.912	1784.6
2000	2.296	34.627	2.65	2.155	27.661	36.855	45.639	2.433	158.7	-1.15	0.075	4.25	0.819	1981.8
2200	2.104	34.638	2.77	1.949	27.686	36.891	45.686	2.537	181.0	-0.96	0.045	3.31	0.723	2178.8
2400	1.936	34.647	2.91	1.766	27.707	36.923	45.726	2.637	204.5	-0.92	0.043	3.23	0.714	2375.7
2600	1.815	34.654	3.04	1.630	27.723	36.946	45.757	2.734	229.2	-0.65	0.032	2.35	0.610	2572.3
2800	1.715	34.660	3.15	1.512	27.736	36.966	45.783	2.828	255.1	-0.52	0.029	1.98	0.560	2768.8
3000	1.647	34.665	3.27	1.427	27.747	36.981	45.802	2.921	282.4	-0.30	0.015	1.12	0.421	2965.1
3200	1.601	34.669	3.35	1.363	27.754	36.992	45.817	3.012	311.3	-0.29	0.022	1.23	0.441	3161.2
3400	1.557	34.674	3.43	1.299	27.763	37.004	45.832	3.103	341.8	-0.27	0.020	1.17	0.431	3357.2
3600	1.532	34.677	3.51	1.255	27.769	37.013	45.843	3.193	374.0	-0.12	0.011	0.57	0.301	3552.9
3800	1.542	34.679	3.53	1.243	27.771	37.015	45.846	3.284	408.3	-0.04	0.005	0.19	0.174	3748.5
4000	1.559	34.679	3.53	1.239	27.771	37.016	45.847	3.376	445.0	-0.03	0.006	0.19	0.000	3943.9
4031	1.562	34.683	3.55	1.238	27.775	37.019	45.850	3.390	450.9	-0.03	0.008	0.19	0.000	3974.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	1.6	28.214	28.214	21.374	29.618	37.511	33.732	33.736	4.74	1.78	0.10	0.01	-0.01			1	222222255
23	74.9	23.805	23.789	23.548	31.891	39.878	34.792	34.786	4.16	3.43	0.30	0.33	0.07			74	222222255
22	101.2	21.224	21.204	24.413	32.827	40.880	34.965	34.965	3.88	3.93	0.45	3.67	0.03			100	222222255
21	122.8	19.977	19.954	24.693	33.146	41.235	34.893	34.896	3.79	5.34	0.56	5.67	0.03			122	222222255
20	148.9	18.137	18.112	25.105	33.616	41.761	34.816	34.821	3.73	6.95	0.69	7.48	0.02	1.698	0.847	148	222222222
19	174.0	13.726	13.701	25.906	34.575	42.867	34.555	34.577	3.43	17.23	1.21	15.88	0.02			172	222222255
18	198.0	12.530	12.503	26.168	34.883	43.217	34.583	34.579	2.95	27.00	1.58	21.59	0.01			196	222222255
17	298.6	10.078	10.043	26.598	35.413	43.842	34.556	34.539	1.83	35.66	2.21	30.59	0.01			296	222222255
16	399.8	8.361	8.319	26.889	35.779	44.277	34.571	34.561	1.56	43.92	2.50	35.29	0.01			397	222222255
15	497.9	7.715	7.665	26.982	35.901	44.427	34.565	34.563	1.84	48.46	2.53	35.80	0.00			494	222222255
14	598.0	6.994	6.936	27.063	36.017	44.575	34.537	34.535	1.93	53.29	2.59	36.71	-0.01			593	222222255
13	698.4	6.490	6.425	27.124	36.102	44.682	34.526	34.527	1.98	60.14	2.64	37.51	-0.01			693	222222255
12	795.9	5.994	5.923	27.185	36.188	44.791	34.523	34.522	1.99	67.19	2.72	38.10	0.00	-0.003	0.009	789	222222222
11	996.0	5.184	5.100	27.294	36.336	44.977	34.533	34.533	2.03	80.69	2.79	39.28	0.02			988	222222255
10	1342.8	3.629	3.528	27.488	36.610	45.326	34.565	34.566	2.15	114.94	2.87	40.38	0.02			1330	222222255
9	1644.7	2.828	2.710	27.597	36.762	45.518	34.606	34.606		128.24	2.83	39.87	0.03			1629	225222255
8	1994.8	2.279	2.139	27.663	36.858	45.643	34.628	34.627	2.65	141.24	2.81	39.78	0.02		0.003	1974	222222252
6	2497.2	1.850	1.673	27.719	36.940	45.748	34.653	34.651	2.97	147.58	2.75	39.19	0.01			2468	222222255
5	2746.8	1.730	1.532	27.735	36.963	45.779	34.660	34.659	3.13	147.68	2.70	38.68	0.02			2713	222222255
4	2995.9	1.646	1.427	27.746	36.981	45.802	34.665	34.663	3.24	147.79	2.67	38.19	0.01	-0.005	0.000	2958	222222225
3	3399.6	1.550	1.293	27.764	37.005	45.834	34.674	34.674	3.44	146.88	2.61	37.59	0.01			3353	222222255
2	3752.6	1.539	1.246	27.770	37.014	45.845	34.678	34.676	3.51	146.68	2.60	37.48	0.02			3698	222222255
1	4003.7	1.560	1.239	27.770	37.015	45.846	34.678	34.676	3.52	146.68	2.59	37.38	0.02	-0.022	-0.003	3944	222222222

CRUISE: MW 893 STA: 12 DATE (D/M/Y): 11- 2-89 TIME: 0911 LAT: 8 0.20 N LONG: 129 0.01 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20306E-04 1/S SOUND SPEED= 1505.5 M/S Depth= 4918 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.446	33.896	4.66	28.446	21.421	29.658	37.545	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.446	33.896	4.66	28.445	21.421	29.659	37.545	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.469	33.894	4.96	28.465	21.414	29.650	37.536	0.128	0.1	-0.32	0.058	2.93	0.681	20.0
30	28.469	33.895	5.18	28.462	21.415	29.652	37.538	0.191	0.3	-0.31	0.253	5.81	0.959	30.0
40	28.442	33.912	4.96	28.433	21.438	29.675	37.562	0.255	0.5	-11.41	6.622	173.28	5.235	40.0
50	28.141	34.070	5.09	28.129	21.656	29.898	37.790	0.318	0.8	-124.80	46.574	1500.99	15.406	50.0
100	22.722	34.881	3.62	22.702	23.930	32.303	40.317	0.561	2.6	-76.31	2.815	474.62	8.663	100.0
125	20.439	34.738	3.54	20.415	24.453	32.894	40.971	0.654	3.7	-87.94	-11.386	306.85	6.966	124.9
150	19.331	34.720	3.44	19.304	24.730	33.205	41.315	0.739	4.9	-61.76	5.279	362.45	7.571	149.9
200	16.329	34.839	3.25	16.297	25.556	34.128	42.329	0.880	7.4	-113.73	-11.908	338.53	7.317	199.7
250	11.518	34.500	2.54	11.486	26.298	35.054	43.427	0.985	9.8	-29.24	0.996	128.01	4.499	249.5
300	10.665	34.481	2.31	10.628	26.438	35.230	43.636	1.071	12.2	-28.05	-0.802	90.09	3.774	299.2
350	9.646	34.485	1.96	9.606	26.616	35.451	43.898	1.149	14.8	-28.16	0.268	101.29	4.002	348.9
400	8.870	34.555	1.49	8.827	26.798	35.666	44.143	1.218	17.4	-13.55	-0.258	40.83	2.541	398.6
450	7.831	34.467	1.73	7.786	26.887	35.803	44.325	1.282	20.2	-13.72	-0.413	36.83	2.413	448.3
500	7.735	34.541	1.76	7.685	26.960	35.879	44.405	1.342	23.1	-0.42	1.145	19.10	1.738	498.0
600	7.248	34.546	1.92	7.189	27.035	35.977	44.524	1.457	29.5	-7.41	-0.133	20.46	1.799	597.3
700	6.587	34.531	1.97	6.521	27.115	36.088	44.664	1.565	36.7	-6.00	-0.160	15.41	1.561	696.5
800	6.287	34.528	2.01	6.214	27.152	36.140	44.731	1.668	44.6	-3.32	0.084	10.86	1.311	795.7
900	5.709	34.525	2.11	5.630	27.224	36.240	44.857	1.767	53.1	-5.00	0.068	15.44	1.562	894.8
1000	5.281	34.530	2.09	5.196	27.280	36.318	44.954	1.860	62.2	-4.77	0.090	14.83	1.531	993.9
1200	4.189	34.550	2.06	4.094	27.418	36.511	45.200	2.028	81.0	-5.26	0.139	16.34	1.607	1191.9
1400	3.547	34.573	2.19	3.442	27.502	36.629	45.349	2.173	100.1	-2.79	0.080	8.57	1.164	1389.7
1600	2.954	34.592	2.33	2.839	27.574	36.732	45.482	2.303	120.1	-2.36	0.102	7.77	1.109	1587.3
1800	2.648	34.610	2.47	2.519	27.617	36.792	45.557	2.423	140.8	-1.53	0.080	5.30	0.915	1784.7
2000	2.395	34.623	2.58	2.252	27.649	36.839	45.618	2.535	162.6	-1.27	0.059	4.33	0.827	1981.9
2200	2.181	34.633	2.68	2.025	27.676	36.878	45.668	2.642	185.5	-1.19	0.046	3.95	0.791	2179.0
2400	1.976	34.643	2.80	1.805	27.701	36.915	45.716	2.744	209.4	-0.94	0.047	3.34	0.727	2375.8
2600	1.813	34.653	2.97	1.627	27.722	36.945	45.756	2.842	234.3	-0.73	0.042	2.74	0.658	2572.4
2800	1.710	34.660	3.11	1.508	27.737	36.966	45.784	2.936	260.2	-0.55	0.031	2.10	0.576	2768.9
3000	1.641	34.665	3.21	1.421	27.747	36.982	45.803	3.028	287.5	-0.41	0.025	1.62	0.507	2965.2
3200	1.580	34.671	3.32	1.342	27.757	36.996	45.822	3.119	316.2	-0.28	0.020	1.17	0.431	3161.3
3400	1.556	34.674	3.41	1.299	27.763	37.004	45.832	3.209	346.6	-0.21	0.015	0.89	0.375	3357.3
3600	1.541	34.676	3.47	1.263	27.767	37.011	45.841	3.300	378.9	-0.14	0.013	0.65	0.320	3553.0
3800	1.547	34.678	3.48	1.249	27.770	37.014	45.844	3.391	413.2	-0.03	0.003	0.14	0.151	3748.6
4000	1.563	34.679	3.49	1.242	27.771	37.015	45.846	3.483	450.0	-0.03	0.002	0.14	0.148	3944.0
4200	1.583	34.679	3.50	1.239	27.771	37.016	45.847	3.577	489.4	-0.01	0.001	0.03	0.071	4139.3
4400	1.605	34.679	3.51	1.238	27.771	37.016	45.847	3.673	531.4	0.00	0.000	0.00	-0.022	4334.4
4600	1.629	34.679	3.50	1.239	27.771	37.016	45.847	3.771	576.2	0.00	0.000	0.00	-0.023	4529.3
4800	1.654	34.679	3.48	1.239	27.771	37.016	45.847	3.870	624.0	0.00	0.000	0.00	-0.015	4724.0
4905	1.667	34.678	3.53	1.239	27.770	37.015	45.846	3.924	650.3	0.00	-0.003	0.00	0.000	4826.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.6	28.410	28.410	21.426	29.664	37.551	33.887	33.887	5.09	1.81	0.10		0.00			2	222225255
23	75.9	23.963	23.947	23.439	31.779	39.763	34.710	34.706	4.17	4.13	0.42		0.12			75	222225255
22	100.5	22.117	22.097	24.107	32.496	40.526	34.888	34.888	3.88	7.35	0.74		0.03			99	222225255
21	200.1	16.117	16.086	25.591	34.171	42.379	34.821		3.27	14.61	1.14		0.01			198	252225255
20	298.9	10.969	10.932	26.405	35.184	43.578	34.508	34.518	2.59	31.93	1.86		0.01	0.657	0.324	297	222225222
19	399.0	9.147	9.103	26.741	35.597	44.063	34.539	34.538	1.78	40.90	2.37		0.01			396	222225255
18	497.5	7.744	7.694	26.933	35.852	44.378	34.508	34.511	1.75	49.87	2.54		0.00			494	222225255
17	598.7	7.295	7.237	27.022	35.962	44.507	34.539	34.540	1.87	51.48	2.58		0.00			594	222225255
16	694.1	6.605	6.540	27.105	36.077	44.653	34.522	34.517	1.90	59.84	2.67		0.00			689	222225255
15	795.9	6.270	6.197	27.161	36.150	44.741	34.536	34.530	1.95	61.75	2.70		0.00			789	222225255
14	998.5	5.157	5.073	27.296	36.340	44.982	34.532	34.533	2.03	80.29	2.81		-0.01			990	222225255
13	1246.9	3.847	3.752	27.463	36.573	45.278	34.562	34.563	2.06	108.60	2.91		0.01			1236	222225255
12	1496.6	3.090	2.981	27.558	36.708	45.451	34.588	34.587	2.28	124.62	2.90		0.01	-0.015	0.005	1482	222225222
11	1745.6	2.655	2.531	27.615	36.790	45.555	34.610	34.611	2.43	132.47	2.88		0.00			1728	222225255
10	1996.2	2.340	2.199	27.656	36.849	45.630	34.626	34.628	2.58	138.62	2.85		0.00			1975	222225255
9	2246.0	2.085	1.926	27.688	36.895	45.690	34.638	34.637	2.71	143.86	2.84		0.00			2221	222225255
8	2498.5	1.876	1.698	27.715	36.934	45.742	34.650	34.649	2.89	146.68	2.78		-0.01	-0.008	-0.013	2469	222225222
7	2745.2	1.724	1.527	27.735	36.964	45.780	34.659	34.660	3.08	147.28	2.73		0.00			2712	222225255
6	2995.1	1.620	1.401	27.751	36.987	45.809	34.668	34.667	3.24	147.08	2.69		0.00			2957	222225255
5	3300.5	1.566	1.319	27.761	37.001	45.828	34.673		3.37	146.68	2.67		0.00			3256	252225255
4	3796.5	1.547	1.249	27.769	37.014	45.844	34.678	34.678	3.49	145.07	2.63		0.01	0.000	0.002	3741	222225252
3	4301.4	1.594	1.239	27.770	37.015	45.846	34.678	34.679	3.51	145.27	2.64		0.01			4234	222225255
2	4752.9	1.648	1.239	27.771	37.016	45.846	34.679	34.679	3.45	145.67	2.63		0.02			4674	222225255
1	4903.7	1.667	1.239	27.771	37.016	45.847	34.679	34.679	3.46	145.27	2.63		0.02	-0.015	0.000	4820	222225225

CRUISE: MW 893 STA: 13 DATE (D/M/Y): 11- 2-89 TIME: 1542 LAT: 7 59.83 N LONG: 129 29.89 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20290E-04 1/S SOUND SPEED= 1500.4 M/S Depth= 4461 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.271	33.951	4.61	28.271	21.519	29.760	37.650	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.271	33.951	4.61	28.271	21.519	29.760	37.650	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.296	33.953	4.91	28.291	21.514	29.754	37.643	0.126	0.1	-0.01	-0.051	-0.71	-0.336	20.0
30	28.299	33.962	5.01	28.292	21.521	29.761	37.650	0.188	0.3	0.85	7.233	102.32	4.024	30.0
40	28.326	34.092	5.06	28.317	21.611	29.849	37.736	0.251	0.5	4.67	16.833	220.47	5.907	40.0
50	28.189	34.236	4.91	28.177	21.764	30.004	37.893	0.312	0.8	-117.04	37.411	1314.85	14.425	50.0
100	23.865	34.965	3.51	23.844	23.663	32.003	39.987	0.563	2.7	-106.97	0.300	618.74	9.895	100.0
125	20.697	34.732	3.41	20.674	24.379	32.812	40.883	0.659	3.8	-49.02	-2.173	234.31	6.089	124.9
150	19.288	34.754	3.25	19.261	24.768	33.244	41.354	0.746	5.0	-60.35	-0.316	329.47	7.221	149.9
200	18.931	35.183	3.21	18.895	25.189	33.671	41.787	0.899	7.7	-39.19	6.323	288.76	6.760	199.7
250	12.923	34.564	2.85	12.889	26.078	34.778	43.098	1.022	10.5	-73.92	-2.754	269.63	6.532	249.5
300	11.344	34.555	2.51	11.306	26.374	35.137	43.516	1.114	13.1	-17.91	0.016	68.01	3.281	299.2
350	10.991	34.554	2.46	10.948	26.438	35.215	43.608	1.199	15.9	-9.92	-0.764	24.85	1.983	349.0
400	9.721	34.477	1.94	9.676	26.599	35.431	43.875	1.280	19.0	-38.92	-0.289	131.80	4.567	398.7
450	8.988	34.574	1.60	8.939	26.795	35.657	44.130	1.350	22.0	-7.12	0.881	37.22	2.427	448.4
500	8.069	34.528	1.66	8.017	26.900	35.805	44.316	1.415	25.2	-4.50	1.406	36.20	2.393	498.0
600	7.483	34.533	1.85	7.423	26.992	35.923	44.460	1.534	31.8	-5.81	0.197	21.17	1.830	597.3
700	6.818	34.549	1.96	6.751	27.098	36.060	44.626	1.645	39.2	-6.09	-0.117	16.70	1.626	696.6
800	6.303	34.527	1.98	6.230	27.149	36.137	44.726	1.750	47.2	-5.60	-0.149	14.15	1.497	795.8
900	5.734	34.525	2.04	5.654	27.221	36.236	44.852	1.849	55.8	-5.39	-0.050	14.56	1.518	894.9
1000	5.183	34.533	2.05	5.099	27.293	36.336	44.977	1.942	64.8	-4.62	0.077	14.16	1.497	994.0
1200	4.195	34.547	2.03	4.101	27.416	36.508	45.197	2.109	83.5	-4.50	0.131	14.10	1.494	1192.0
1400	3.384	34.578	2.21	3.280	27.522	36.657	45.385	2.252	102.5	-3.49	0.127	11.10	1.325	1389.8
1600	2.867	34.601	2.39	2.753	27.589	36.751	45.505	2.378	121.7	-1.63	0.079	5.48	0.931	1587.4
1800	2.575	34.614	2.46	2.447	27.626	36.805	45.574	2.495	142.0	-1.48	0.067	4.95	0.885	1784.8
2000	2.351	34.626	2.58	2.210	27.655	36.847	45.628	2.606	163.5	-1.15	0.055	3.96	0.792	1982.0
2200	2.145	34.634	2.67	1.989	27.679	36.883	45.676	2.712	186.2	-1.07	0.055	3.78	0.773	2179.0
2400	1.977	34.644	2.79	1.806	27.702	36.915	45.717	2.814	210.1	-0.85	0.046	3.08	0.698	2375.9
2600	1.833	34.652	2.91	1.647	27.720	36.943	45.752	2.912	235.0	-0.79	0.042	2.91	0.678	2572.5
2800	1.728	34.660	3.04	1.526	27.735	36.964	45.780	3.006	261.0	-0.48	0.029	1.85	0.541	2769.0
3000	1.638	34.666	3.18	1.418	27.748	36.983	45.805	3.099	288.4	-0.47	0.026	1.83	0.539	2965.3
3200	1.595	34.670	3.28	1.357	27.756	36.994	45.819	3.190	317.2	-0.26	0.019	1.09	0.416	3161.4
3400	1.563	34.674	3.34	1.306	27.762	37.003	45.831	3.280	347.7	-0.19	0.014	0.81	0.358	3357.3
3600	1.547	34.676	3.41	1.270	27.767	37.010	45.839	3.371	380.0	-0.13	0.010	0.59	0.307	3553.1
3800	1.547	34.678	3.45	1.248	27.770	37.014	45.845	3.462	414.5	-0.08	0.007	0.38	0.245	3748.7
4000	1.562	34.679	3.47	1.242	27.771	37.016	45.846	3.555	451.2	-0.02	0.003	0.38	0.000	3944.1
4017	1.564	34.679	3.49	1.242	27.771	37.016	45.846	3.563	454.5	-0.01	0.003	0.38	0.000	3960.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.7	28.258	28.256	21.528	29.769	37.659	33.956	33.955	4.86	1.81	0.26	0.10	0.00			9	222222255
23	72.8	24.089	24.074	23.496	31.832	39.811	34.835	34.786	4.22	3.22	0.47	2.53	0.07	1.769	0.880	72	222222222
22	99.5	21.272	21.253	24.295	32.709	40.762	34.827	34.781	3.46	8.76	0.85	8.68	0.02	1.615	0.737	98	222222222
21	123.3	19.337	19.315	24.817	33.290	41.398	34.837	34.759	3.36	11.89	0.97	10.79	0.01	1.358	0.702	122	222222222
20	146.7	18.608	18.583	24.937	33.434	41.565	34.750	34.738	3.36	12.29	1.02	11.39	0.01	1.376	0.707	145	222222222
19	173.5	18.221	18.191	25.312	33.818	41.956	35.113		3.26	8.56	1.11	12.28	0.02			172	252222255
18	199.0	14.995	14.965	25.902	34.521	42.764	34.899		3.20	17.23	1.33	16.21	-0.01	1.241	0.570	197	252222222
17	298.9	11.076	11.039	26.423	35.197	43.587	34.556	34.554	2.55	38.18	2.03	26.49	0.01	0.607	0.281	297	222222222
16	399.0	8.961	8.918	26.757	35.621	44.095	34.521	34.521	1.77	41.81	2.44	32.80	0.00		0.120	396	222222252
15	498.0	7.889	7.839	26.935	35.847	44.366	34.537	34.538	1.71	47.55	2.60	35.50	0.00		0.045	494	222222252
14	597.7	7.240	7.181	27.040	35.982	44.529	34.551	34.551	1.91	51.48	2.64	35.90	0.00	0.087		593	222222225
13	697.3	6.692	6.626	27.110	36.079	44.650	34.543	34.544	1.95	57.72	2.71	36.81	-0.01	0.049	0.034	692	222222222
12	747.0	6.439	6.370	27.142	36.123	44.706	34.541	34.539	1.98	59.54	2.73	37.09	0.01	0.024	0.017	741	222222222
11	796.4	6.208	6.135	27.161	36.153	44.747	34.526	34.525	1.94	63.97	2.77	38.01	-0.01		0.029	790	222222252
10	895.6	5.704	5.625	27.223	36.239	44.856	34.523	34.523	1.99	71.32	2.79	38.20	0.00	0.062	0.031	888	222222222
9	995.5	5.164	5.080	27.294	36.338	44.980	34.531	34.532	2.04	81.10	2.84	38.81	-0.01	0.037	0.020	987	222222222
8	1496.4	3.034	2.926	27.565	36.718	45.464	34.590	34.591	2.29	125.32	2.90	39.91	-0.01	0.008	0.007	1482	222222222
7	1996.5	2.363	2.221	27.653	36.844	45.625	34.625	34.628	2.61	138.11	2.88	39.80	0.00		0.004	1975	222222252
6	2495.5	1.897	1.719	27.713	36.932	45.738	34.650	34.650	2.88	145.57	2.80	39.00	0.00		0.002	2466	222222252
5	2998.7	1.633	1.414	27.748	36.984	45.805	34.666	34.666	3.24	146.88	2.71	38.01	-0.01	-0.008	0.002	2960	222222222
4	3250.1	1.578	1.335	27.759	36.998	45.824	34.672	34.672	3.33	146.07	2.67	37.61	-0.01	0.020	0.001	3207	222222222
3	3500.8	1.553	1.286	27.765	37.007	45.836	34.676	34.676	3.42	145.77	2.64	37.61	-0.01	0.025	0.004	3452	222222222
2	3749.9	1.548	1.255	27.768	37.012	45.842	34.677	34.677	3.47	145.57	2.62	37.21	-0.01	-0.003	0.004	3696	222222222
1	4017.3	1.564	1.242	27.771	37.015	45.846	34.679	34.679	3.49	145.32	2.61	37.20	0.00	-0.007	0.002	3957	222222222

CRUISE: MW 893 STA: 14 DATE (D/M/Y): 11- 2-89 TIME: 2120 LAT: 7 59.97 N LONG: 130 0.11 E

GRAVITY= 9.7813 M/S CORIOLIS= 0.20296E-04 1/S SOUND SPEED= 1510.9 M/S Depth= 5675 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.300	34.034	5.02	28.300	21.572	29.811	37.700	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.300	34.034	5.02	28.299	21.573	29.812	37.700	0.019	0.0	-0.47	0.000	0.00	0.000	3.0
20	28.306	34.037	4.95	28.302	21.575	29.814	37.702	0.124	0.1	0.03	0.156	2.15	0.584	20.0
30	28.322	34.055	4.95	28.315	21.583	29.821	37.709	0.187	0.3	3.38	6.374	72.99	3.398	30.0
40	28.349	34.313	4.97	28.339	21.769	30.004	37.889	0.249	0.5	-31.82	40.301	808.19	11.308	40.0
50	27.012	34.412	4.77	27.001	22.277	30.543	38.456	0.307	0.8	-89.59	7.153	676.62	10.346	50.0
100	23.704	34.790	4.04	23.683	23.577	31.924	39.913	0.555	2.7	-102.11	0.467	600.43	9.746	100.0
125	21.259	34.792	3.44	21.235	24.273	32.689	40.743	0.654	3.8	-62.68	-4.845	275.28	6.599	124.9
150	20.159	34.722	3.37	20.131	24.516	32.965	41.051	0.743	5.0	-48.22	-0.030	230.67	6.041	149.9
200	18.828	35.230	3.15	18.793	25.251	33.736	41.855	0.900	7.8	-61.42	2.645	338.20	7.315	199.7
250	13.577	34.587	2.99	13.542	25.964	34.639	42.936	1.022	10.6	-56.21	-3.015	191.41	5.503	249.5
300	11.921	34.516	2.71	11.882	26.236	34.976	43.334	1.120	13.4	-24.64	-1.057	80.06	3.559	299.2
350	11.163	34.526	2.25	11.119	26.385	35.156	43.543	1.210	16.3	-33.30	-0.146	120.27	4.362	349.0
400	9.639	34.529	1.66	9.593	26.653	35.488	43.934	1.288	19.3	-25.92	-0.677	78.37	3.521	398.7
450	8.811	34.550	1.51	8.763	26.804	35.674	44.155	1.358	22.3	-11.73	0.297	43.40	2.620	448.4
500	7.740	34.440	1.68	7.690	26.880	35.800	44.327	1.422	25.4	-17.22	-1.361	33.50	2.302	498.1
600	7.388	34.537	1.82	7.329	27.008	35.943	44.484	1.541	32.1	-8.07	-0.165	22.26	1.877	597.4
700	6.728	34.527	1.99	6.662	27.092	36.059	44.629	1.651	39.4	-6.87	-0.085	19.12	1.739	696.6
800	6.066	34.515	1.98	5.994	27.171	36.170	44.770	1.754	47.3	-5.28	-0.040	14.59	1.519	795.8
900	5.508	34.528	1.97	5.430	27.251	36.277	44.903	1.851	55.7	-5.91	0.082	17.94	1.685	894.9
1000	4.939	34.538	1.97	4.856	27.325	36.380	45.032	1.940	64.3	-5.69	0.105	17.19	1.649	994.0
1200	3.915	34.561	2.11	3.823	27.455	36.562	45.264	2.098	81.9	-4.36	0.111	13.15	1.442	1192.0
1400	3.189	34.586	2.28	3.087	27.547	36.692	45.429	2.234	99.9	-2.88	0.105	9.02	1.195	1389.8
1600	2.739	34.606	2.42	2.626	27.604	36.774	45.534	2.355	118.5	-1.69	0.090	5.74	0.953	1587.4
1800	2.486	34.619	2.50	2.360	27.637	36.821	45.595	2.468	138.0	-1.06	0.051	3.53	0.747	1784.8
2000	2.293	34.629	2.59	2.153	27.662	36.857	45.641	2.576	159.0	-0.85	0.039	2.84	0.670	1982.0
2200	2.146	34.636	2.69	1.990	27.681	36.884	45.677	2.681	181.5	-1.02	0.043	3.45	0.739	2179.0
2400	1.926	34.646	2.85	1.756	27.707	36.924	45.728	2.781	205.0	-0.96	0.039	3.29	0.721	2375.8
2600	1.777	34.655	3.00	1.592	27.727	36.952	45.765	2.878	229.5	-0.74	0.043	2.78	0.663	2572.5
2800	1.676	34.662	3.10	1.474	27.741	36.973	45.791	2.970	255.1	-0.46	0.026	1.74	0.525	2769.0
3000	1.608	34.668	3.23	1.389	27.751	36.988	45.811	3.061	282.0	-0.39	0.026	1.57	0.499	2965.2
3200	1.570	34.672	3.31	1.332	27.759	36.998	45.825	3.151	310.5	-0.23	0.016	0.97	0.391	3161.4
3400	1.545	34.675	3.38	1.288	27.765	37.007	45.835	3.241	340.7	-0.21	0.015	0.90	0.377	3357.3
3600	1.546	34.677	3.41	1.268	27.768	37.011	45.840	3.332	373.0	-0.11	0.009	0.48	0.276	3553.1
3800	1.554	34.678	3.45	1.255	27.769	37.013	45.843	3.423	407.4	-0.03	0.003	0.14	0.150	3748.6
4000	1.571	34.679	3.47	1.250	27.770	37.014	45.845	3.515	444.2	-0.02	0.001	0.07	0.109	3944.1
4200	1.589	34.679	3.47	1.245	27.771	37.015	45.846	3.610	483.7	-0.02	0.002	0.11	0.131	4139.3
4400	1.609	34.679	3.49	1.242	27.771	37.016	45.847	3.706	525.8	-0.01	0.001	0.06	0.094	4334.4
4600	1.631	34.679	3.51	1.240	27.771	37.016	45.847	3.804	570.6	-0.01	0.000	0.04	0.076	4529.3
4800	1.655	34.679	3.53	1.240	27.771	37.016	45.847	3.903	618.4	0.00	0.000	0.00	0.017	4724.0
5000	1.680	34.680	3.55	1.239	27.772	37.016	45.847	4.005	669.2	-0.01	0.000	0.03	0.069	4918.6
5200	1.703	34.680	3.57	1.237	27.772	37.017	45.848	4.108	723.0	-0.01	-0.001	0.02	0.060	5113.0
5400	1.729	34.679	3.55	1.237	27.771	37.016	45.847	4.214	780.1	0.00	0.000	0.00	0.025	5307.3
5600	1.755	34.679	3.56	1.236	27.771	37.016	45.847	4.321	840.5	-0.01	-0.001	0.00	0.000	5501.4
5677	1.764	34.679	3.56	1.235	27.772	37.017	45.848	4.363	864.6	-0.01	0.000	0.00	0.000	5576.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	28.2	28.351	28.345	21.596	29.834	37.721	34.085	34.077	5.12	1.91	0.03	-0.01	0.01			28	222222255
23	51.3	26.543	26.531	22.423	30.700	38.624	34.409	34.411	4.64	2.12	0.11	0.27	0.13			51	222222255
22	74.9	24.739	24.723	23.268	31.587	39.550	34.790	34.820	4.40	3.43	0.33	3.57	0.03			74	222222255
21	100.1	21.578	21.558	24.506	32.907	40.947	35.215	34.970	3.49	6.45	0.63	8.07	0.03			99	222222255
20	124.7	20.495	20.471	24.432	32.871	40.947	34.730	34.723	3.49	10.68	0.70	9.68	0.02			123	222222255
19	148.6	18.833	18.807	24.853	33.344	41.468	34.715	34.717	3.46	12.79	0.81	11.29	0.01			147	222222255
18	170.9	18.566	18.535	24.942	33.441	41.573	34.742	34.730	3.47	12.79	0.83	11.39	0.01			169	222222255
17	199.6	18.434	18.399	25.329	33.827	41.958	35.203		3.29	8.66	0.95	12.69	0.01			198	252222255
16	250.0	13.092	13.057	26.026	34.720	43.034	34.540	34.545	3.11	22.36	1.38	19.19	0.01			248	222222255
15	349.9	10.366	10.324	26.503	35.307	43.725	34.496	34.505	2.28	33.95	1.94	27.59	0.01			347	222222255
14	447.3	8.605	8.557	26.840	35.719	44.208	34.555	34.549	1.62	42.81	2.38	34.19	0.01			444	222222255
13	547.2	7.725	7.670	26.963	35.883	44.409	34.542	34.540	1.77	48.66	2.45	34.99	0.01			543	222222255
12	795.3	6.004	5.933	27.176	36.178	44.781	34.512	34.512	2.11							789	222555555
11	1296.3	3.472	3.376	27.507	36.637	45.361	34.571	34.574	2.13	116.96	2.80	39.70	0.00			1285	222222255
10	1796.0	2.521	2.394	27.633	36.815	45.587	34.618	34.617	2.49	135.19	2.77	39.61	-0.01			1778	222222255
9	2196.1	2.161	2.005	27.680	36.883	45.674	34.636	34.636	2.68	141.24	2.75	39.10	0.00			2172	222222255
8	2697.8	1.704	1.512	27.737	36.967	45.784	34.661	34.661	3.11	146.98	2.67	38.11	-0.01			2665	222222255
7	3300.8	1.556	1.309	27.762	37.003	45.830	34.674	34.674	3.40	145.87	2.57	37.20	0.00			3256	222222255
6	3901.4	1.561	1.251	27.770	37.014	45.844	34.678	34.679	3.47	145.47	2.57	37.10	0.00			3844	222222255
5	4503.0	1.620	1.241	27.771	37.015	45.846	34.678	34.679	3.47	145.17	2.55	37.00	0.00			4430	222222255
4	5003.2	1.679	1.238	27.772	37.017	45.847	34.680	34.679	3.50	144.76	2.55	36.80	0.00			4917	222222255
3	5252.6	1.709	1.237	27.772	37.017	45.848	34.680	34.679	3.53	144.46	2.55	36.80	0.00			5159	222222255
2	5502.5	1.742	1.237	27.771	37.016	45.847	34.679	34.680	3.50	144.26	2.55	36.80	0.00			5402	222222255
1	5677.1	1.765	1.236	27.771	37.016	45.847	34.679	34.681	3.56	144.26	2.54	36.81	-0.01			5571	222222255

CRUISE: MW 893 STA: 15 DATE (D/M/Y): 12- 2-89 TIME: 0627 LAT: 8 10.41 N LONG: 130 50.30 E

GRAVITY= 9.7814 M/S CORIOLIS= 0.20735E-04 1/S SOUND SPEED= 1507.5 M/S Depth= 5251 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.375	33.919	4.32	28.375	21.462	29.700	37.588	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.375	33.919	4.32	28.375	21.462	29.700	37.588	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.230	33.937	4.82	28.225	21.524	29.766	37.657	0.126	0.1	-5.84	7.265	149.48	4.811	20.0
30	28.089	34.299	4.81	28.082	21.843	30.084	37.975	0.188	0.3	-111.20	23.383	1089.63	12.990	30.0
40	28.177	34.760	4.61	28.167	22.162	30.396	38.280	0.246	0.5	53.44	44.994	332.22	7.173	40.0
50	27.424	34.736	4.31	27.413	22.389	30.641	38.542	0.302	0.7	-32.30	18.736	497.69	8.779	50.0
100	23.708	34.889	3.54	23.687	23.651	31.996	39.984	0.538	2.5	-65.98	0.466	395.22	7.823	100.0
125	20.936	34.833	3.43	20.912	24.392	32.816	40.879	0.639	3.7	-118.96	-3.673	654.28	10.066	124.9
150	19.808	34.875	3.48	19.780	24.725	33.183	41.277	0.724	4.9	-34.08	3.567	228.54	5.949	149.8
200	16.721	34.933	3.31	16.689	25.537	34.095	42.282	0.871	7.5	-82.16	-2.108	355.33	7.418	199.7
250	12.626	34.509	3.06	12.593	26.094	34.806	43.138	0.983	10.0	-43.15	-0.369	170.69	5.141	249.5
300	10.562	34.435	2.41	10.526	26.421	35.217	43.628	1.073	12.6	-23.16	0.944	101.08	3.957	299.2
350	9.571	34.548	1.53	9.532	26.678	35.515	43.964	1.151	15.1	-22.27	0.065	79.14	3.501	348.9
400	8.795	34.557	1.48	8.751	26.811	35.682	44.162	1.219	17.8	-12.02	0.361	46.17	2.674	398.6
450	8.197	34.558	1.56	8.150	26.904	35.802	44.307	1.283	20.5	-12.83	-0.186	38.84	2.452	448.3
500	7.663	34.542	1.73	7.613	26.972	35.894	44.423	1.342	23.4	-7.05	-0.083	20.98	1.803	498.0
600	6.802	34.526	1.97	6.746	27.081	36.044	44.610	1.454	29.6	-7.28	-0.058	21.30	1.816	597.3
700	6.199	34.526	2.03	6.136	27.161	36.153	44.746	1.558	36.5	-6.06	0.016	18.12	1.675	696.5
800	5.724	34.531	2.11	5.654	27.225	36.241	44.856	1.654	43.9	-3.68	0.027	11.22	1.318	795.7
900	5.351	34.534	2.09	5.275	27.274	36.308	44.941	1.747	51.9	-4.92	0.043	14.66	1.507	894.8
1000	4.856	34.539	2.02	4.773	27.335	36.394	45.050	1.835	60.4	-5.00	0.138	16.20	1.584	993.9
1200	4.033	34.560	2.12	3.940	27.443	36.543	45.239	1.993	78.2	-3.22	0.100	10.34	1.266	1191.9
1400	3.342	34.577	2.18	3.239	27.525	36.663	45.393	2.135	97.0	-4.03	0.120	12.61	1.397	1389.7
1600	2.748	34.601	2.37	2.635	27.599	36.768	45.528	2.259	115.9	-1.96	0.114	6.99	1.040	1587.3
1800	2.440	34.619	2.48	2.314	27.641	36.827	45.603	2.372	135.5	-1.51	0.096	5.55	0.927	1784.7
2000	2.196	34.632	2.61	2.057	27.672	36.872	45.661	2.478	156.1	-1.11	0.072	4.16	0.803	1981.9
2200	2.016	34.641	2.74	1.863	27.695	36.906	45.704	2.579	177.7	-0.99	0.037	3.31	0.717	2178.9
2400	1.858	34.650	2.87	1.690	27.715	36.935	45.743	2.676	200.5	-0.57	0.026	2.01	0.558	2375.7
2600	1.741	34.658	2.99	1.556	27.731	36.959	45.773	2.771	224.6	-0.69	0.039	2.62	0.637	2572.4
2800	1.649	34.664	3.14	1.448	27.744	36.978	45.798	2.863	249.9	-0.41	0.022	1.59	0.496	2768.8
3000	1.595	34.669	3.24	1.376	27.753	36.991	45.814	2.953	276.6	-0.38	0.026	1.58	0.495	2965.1
3200	1.559	34.673	3.34	1.322	27.760	37.001	45.827	3.043	305.0	-0.21	0.016	0.91	0.375	3161.2
3400	1.538	34.676	3.41	1.281	27.766	37.008	45.837	3.132	335.1	-0.20	0.014	0.89	0.371	3357.2
3600	1.537	34.678	3.46	1.260	27.769	37.012	45.842	3.222	367.2	-0.06	0.005	0.27	0.203	3552.9
3800	1.550	34.679	3.46	1.252	27.770	37.014	45.844	3.313	401.5	-0.03	0.003	0.14	0.146	3748.5
4000	1.568	34.679	3.48	1.247	27.771	37.015	45.845	3.406	438.4	-0.02	0.001	0.10	0.122	3943.9
4200	1.588	34.679	3.49	1.245	27.771	37.015	45.846	3.500	477.8	-0.01	0.002	0.07	0.107	4139.2
4400	1.608	34.680	3.49	1.242	27.771	37.016	45.847	3.596	519.8	-0.01	0.002	0.08	0.113	4334.3
4600	1.631	34.679	3.50	1.240	27.771	37.016	45.847	3.694	564.7	0.00	0.000	0.01	0.045	4529.2
4800	1.655	34.679	3.51	1.240	27.771	37.016	45.847	3.793	612.1	0.00	0.000	0.01	0.047	4723.9
5000	1.679	34.679	3.51	1.239	27.772	37.016	45.847	3.895	663.2	-0.01	0.001	0.04	0.082	4918.5
5200	1.704	34.680	3.52	1.238	27.772	37.017	45.848	3.998	717.1	0.00	-0.001	0.04	0.000	5112.9
5253	1.711	34.679	3.51	1.238	27.772	37.016	45.847	4.026	731.9	0.00	-0.001	0.04	0.000	5164.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	3.6	28.307	28.307	21.511	29.750	37.639	33.954	33.953	4.93	2.01	0.12	0.00	0.00			3	222222255
23	50.2	27.084	27.073	22.639	30.897	38.804	34.923			2.72	0.48	4.02	0.08			49	255222255
22	100.1	22.596	22.576	23.925	32.302	40.319	34.827	34.869	3.53	6.75	0.68	7.77	0.03			99	222222255
21	123.8	20.010	19.987	24.554	33.008	41.098	34.722	34.720	3.37	11.48	0.82	10.39	0.01			123	222222255
20	147.7	19.497	19.470	24.760	33.228	41.332	34.814	34.805	3.36	11.08	0.86	10.79	0.01	1.394	0.734	146	222222222
19	175.6	17.638	17.609	25.168	33.697	41.858	34.738	34.733	3.42	12.89	0.95	11.89	0.01			174	222222255
18	199.1	16.062	16.031	25.657	34.238	42.447	34.890		3.37	13.10	1.12	14.39	0.01			197	252222255
17	298.4	10.618	10.582	26.419	35.214	43.622	34.446	34.448	2.31	31.43	1.98	26.79	0.01			296	222222255
16	398.5	8.818	8.775	26.804	35.674	44.153	34.552	34.551	1.54	41.81	2.45	34.09	0.01			395	222222255
15	504.1	7.705	7.655	26.966	35.886	44.413	34.542	34.541	1.82	48.15	2.54	35.49	0.01			500	222222255
14	598.7	6.838	6.781	27.074	36.035	44.600	34.524	34.526	2.02	55.10	2.60	36.29	0.01			594	222222255
13	800.0	5.673	5.603	27.230	36.247	44.865	34.528	34.532	2.03	71.02	2.75	38.19	0.01			793	222222255
12	996.9	4.796	4.715	27.344	36.406	45.065	34.541	34.541	2.02	88.65	2.83	39.40	0.00	0.011	0.003	988	222222222
11	1297.3	3.506	3.409	27.505	36.633	45.355	34.572	34.574	2.17	116.15	2.89	40.00	0.00			1286	222222255
10	1595.8	2.730	2.617	27.602	36.772	45.533	34.602	34.603	2.35	132.17	2.86	39.90	0.00			1580	222222255
9	1996.6	2.143	2.005	27.680	36.883	45.674	34.636	34.636	2.69	142.04	2.80	39.39	0.01			1975	222222255
8	2476.5	1.792	1.618	27.725	36.949	45.760	34.655	34.655	2.95		2.74	38.80	0.00	0.003	0.005	2448	222522222
7	2999.1	1.589	1.371	27.754	36.992	45.816	34.670	34.672	3.28	147.18	2.67	37.81	-0.01			2961	222222255
6	3497.5	1.535	1.268	27.767	37.010	45.840	34.677	34.678	3.43	146.48	2.63	37.39	0.01			3449	222222255
5	4001.6	1.568	1.247	27.770	37.014	45.845	34.679	34.678	3.49	146.38	2.62	37.40	0.00	0.007	-0.004	3942	222222222
4	4503.9	1.620	1.241	27.770	37.015	45.846	34.678	34.683	3.49	145.67	2.62	37.00	0.00	0.027	0.007	4431	222222222
3	4749.8	1.649	1.240	27.771	37.016	45.846	34.679	34.680	3.49		2.64	37.20	0.00			4671	222522255
2	5000.4	1.679	1.239	27.772	37.016	45.847	34.680	34.680	3.50	145.77	2.63	37.40	0.00			4914	222222255
1	5252.9	1.711	1.238	27.772	37.017	45.848	34.680	34.683	3.51	145.67	2.62	37.20	0.00	0.010	0.004	5160	222222222

CRUISE: MW 893 STA: 16 DATE (D/M/Y): 12- 2-89 TIME: 1410 LAT: 8 20.11 N LONG: 131 36.91 E

GRAVITY= 9.7814 M/S CORIOLIS= 0.21142E-04 1/S SOUND SPEED= 1504.4 M/S Depth= 4889 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.482	33.893	4.72	28.482	21.407	29.643	37.529	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.482	33.893	4.72	28.482	21.407	29.644	37.529	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.420	33.904	4.73	28.415	21.437	29.675	37.562	0.128	0.1	-18.14	7.753	243.58	6.082	20.0
30	28.124	34.038	4.68	28.117	21.636	29.879	37.771	0.190	0.3	-53.16	16.348	612.55	9.645	30.0
40	27.457	34.211	4.75	27.447	21.983	30.240	38.145	0.250	0.5	-43.27	10.501	451.71	8.283	40.0
50	27.190	34.296	4.55	27.178	22.133	30.396	38.306	0.308	0.8	-11.48	9.331	221.24	5.797	50.0
100	25.767	34.667	4.11	25.745	22.863	31.157	39.097	0.580	2.8	-69.66	7.440	559.46	9.218	100.0
125	23.750	34.885	4.10	23.724	23.638	31.982	39.969	0.695	4.2	-100.79	2.401	617.49	9.684	125.0
150	20.770	34.938	3.89	20.742	24.518	32.947	41.013	0.792	5.5	-138.65	-6.491	671.84	10.102	149.9
200	14.479	34.589	3.57	14.449	25.775	34.416	42.682	0.931	8.0	-63.74	-2.494	255.13	6.225	199.7
250	12.070	34.450	3.19	12.037	26.156	34.891	43.244	1.037	10.4	-63.39	-4.164	193.91	5.427	249.5
300	10.071	34.468	2.12	10.036	26.531	35.347	43.777	1.124	12.8	-24.77	2.390	130.21	4.447	299.2
350	8.994	34.493	1.60	8.956	26.729	35.592	44.065	1.198	15.3	-27.36	-0.809	82.44	3.539	349.0
400	8.488	34.558	1.59	8.446	26.859	35.744	44.237	1.264	17.8	-6.14	1.052	37.57	2.389	398.7
450	8.077	34.560	1.71	8.031	26.924	35.827	44.337	1.325	20.4	-8.76	-0.299	24.02	1.910	448.3
500	7.719	34.552	1.86	7.669	26.971	35.891	44.417	1.384	23.3	-6.79	-0.231	18.26	1.665	498.0
600	7.118	34.538	2.07	7.061	27.047	35.995	44.548	1.497	29.7	-5.45	-0.128	15.06	1.512	597.3
700	6.447	34.527	2.07	6.382	27.130	36.110	44.693	1.605	36.8	-7.22	-0.054	21.39	1.803	696.5
800	5.909	34.523	2.06	5.838	27.197	36.203	44.810	1.705	44.4	-5.90	-0.008	17.24	1.618	795.7
900	5.320	34.531	2.04	5.244	27.275	36.311	44.945	1.798	52.5	-5.45	0.089	17.16	1.614	894.9
1000	4.744	34.541	2.05	4.662	27.350	36.414	45.076	1.885	60.9	-5.25	0.104	16.47	1.582	993.9
1200	3.919	34.564	2.08	3.827	27.457	36.564	45.265	2.041	78.3	-4.28	0.121	13.69	1.442	1191.9
1400	3.200	34.580	2.21	3.098	27.541	36.686	45.423	2.177	96.4	-3.05	0.098	9.74	1.216	1389.7
1600	2.735	34.603	2.32	2.622	27.602	36.772	45.533	2.299	115.0	-2.03	0.104	7.09	1.038	1587.3
1800	2.400	34.622	2.50	2.274	27.646	36.835	45.613	2.411	134.4	-1.28	0.065	4.49	0.826	1784.7
2000	2.122	34.637	2.66	1.984	27.682	36.886	45.678	2.516	154.7	-1.20	0.062	4.31	0.809	1981.9
2200	1.942	34.646	2.79	1.790	27.704	36.919	45.721	2.614	175.9	-0.81	0.039	2.90	0.664	2178.9
2400	1.801	34.654	2.92	1.634	27.722	36.945	45.756	2.710	198.3	-0.78	0.040	2.90	0.664	2375.7
2600	1.686	34.661	3.07	1.502	27.738	36.968	45.786	2.802	221.8	-0.62	0.037	2.43	0.607	2572.4
2800	1.612	34.667	3.20	1.411	27.749	36.985	45.807	2.892	246.6	-0.34	0.023	1.40	0.462	2768.9
3000	1.559	34.672	3.30	1.341	27.758	36.997	45.823	2.981	272.8	-0.28	0.019	1.18	0.423	2965.1
3200	1.539	34.675	3.36	1.302	27.763	37.005	45.832	3.069	300.8	-0.15	0.012	0.66	0.316	3161.2
3400	1.527	34.677	3.41	1.271	27.768	37.011	45.840	3.158	330.7	-0.15	0.012	0.68	0.320	3357.2
3600	1.530	34.679	3.44	1.253	27.770	37.014	45.844	3.248	362.6	-0.05	0.005	0.24	0.189	3552.9
3800	1.547	34.680	3.46	1.248	27.771	37.015	45.846	3.338	396.9	-0.01	0.002	0.08	0.109	3748.5
4000	1.568	34.680	3.46	1.247	27.771	37.015	45.846	3.431	433.6	0.00	0.000	0.00	0.026	3943.9
4200	1.591	34.680	3.47	1.247	27.771	37.015	45.846	3.525	473.0	0.00	0.001	0.02	0.058	4139.2
4400	1.613	34.680	3.48	1.246	27.772	37.016	45.846	3.621	515.1	0.00	0.001	0.02	0.061	4334.3
4600	1.636	34.680	3.48	1.245	27.772	37.016	45.847	3.719	560.0	0.00	0.000	0.01	0.042	4529.2
4800	1.660	34.680	3.48	1.245	27.772	37.016	45.847	3.818	607.8	-0.01	0.000	0.01	0.000	4723.9
4805	1.661	34.680	3.48	1.245	27.772	37.016	45.847	3.821	609.0	-0.01	0.001	0.01	0.000	4728.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.2	28.402	28.399	21.405	29.644	37.532	33.855	33.855	4.72					1.797	0.882	10	222555522
23	50.3	27.910	27.899	22.191	30.432	38.323	34.682	34.775	4.59					1.796	0.880	50	222555522
22	100.2	25.216	25.195	23.104	31.411	39.363	34.762	34.729	4.35	2.72	0.27	0.84	0.06	2.017	0.861	99	222222222
21	124.9	23.435	23.409	23.732	32.085	40.080	34.888	34.886	4.13	3.32	0.33	1.29	0.21	1.763	0.854	124	222222222
20	150.2	19.650	19.622	24.919	33.380	41.476	35.075	34.953	3.88	4.03	0.48	4.08	0.02	1.768	0.904	149	222222222
19	174.0	17.556	17.527	25.331	33.860	42.021	34.925	34.818	3.75	7.05	0.69	7.79	0.01	1.782	0.869	172	222222222
18	197.9	14.591	14.562	25.771	34.407	42.669	34.615	34.610	3.78	13.10	1.00	13.00	0.00	1.549	0.764	196	222222222
17	298.4	10.222	10.187	26.415	35.227	43.652	34.352	34.473	2.20	32.44	2.02	27.71	-0.01	0.584	0.276	296	222222222
16	395.2	8.500	8.458	26.854	35.738	44.231	34.554	34.531	1.68		2.47	34.60	0.00	0.138	0.062	392	222522222
15	497.9	7.699	7.649	26.969	35.890	44.417	34.546	34.547	1.81	47.65	2.48	35.39	0.01		0.057	494	222222252
14	596.2	7.075	7.017	27.047	35.998	44.552	34.531	34.535	2.00	49.66	2.45	34.70	0.00	0.096	0.045	592	222222222
13	697.5	6.403	6.339	27.113	36.096	44.681	34.499	34.523	1.99		2.65	37.51	-0.01	0.023	0.019	692	222522222
12	746.7	6.128	6.061	27.168	36.164	44.761	34.523	34.522	2.01	64.57	2.68	37.78	0.02	0.010	0.013	741	222222222
11	797.0	5.859	5.788	27.197	36.206	44.816	34.516	34.519	2.03	69.21	2.72	38.10	0.00	0.069		791	222222225
9	994.9	4.726	4.645	27.348	36.413	45.076	34.536	34.535	2.04	91.07	2.83	39.60	0.00	0.044	0.020	986	222222222
8	1475.8	2.964	2.858	27.570	36.727	45.476	34.589	34.590	2.26	128.54	2.87	40.41	-0.01	0.000	-0.001	1462	222222252
7	1993.3	2.169	2.031	27.677	36.878	45.668	34.635	34.633	2.69	141.64	2.79	39.70	0.00	-0.020	-0.002	1972	222222222
6	2493.5	1.757	1.582	27.729	36.955	45.769	34.658		2.94	146.88	2.77	39.21	-0.01	-0.013		2464	252222225
5	2997.3	1.562	1.344	27.756	36.995	45.821	34.669	34.671	3.34	147.58	2.64	38.11	-0.01		-0.008	2959	222222252
4	3497.3	1.530	1.264	27.768	37.011	45.841	34.677	34.676	3.45	146.38	2.62	37.70	0.00	0.009	-0.002	3449	222222222
3	3998.4	1.568	1.248	27.770	37.015	45.845	34.679	34.683	3.48	146.58	2.61	37.70	0.00	0.014	0.007	3938	222222222
1	4805.5	1.660	1.244	27.771	37.015	45.846	34.679	34.681	3.46	145.67	2.61	37.71	-0.01	-0.002	-0.002	4725	222222222

CRUISE: MW 893 STA: 17 DATE (D/M/Y): 12- 2-89 TIME: 2139 LAT: 8 30.09 N LONG: 132 26.26 E

GRAVITY= 9.7814 M/S CORIOLIS= 0.21561E-04 1/S SOUND SPEED= 1502.1 M/S Depth= 4451 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.524	33.930	4.36	28.524	21.421	29.656	37.540	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.524	33.930	4.36	28.524	21.421	29.656	37.540	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.530	33.936	4.69	28.525	21.425	29.660	37.544	0.127	0.1	-6.45	1.175	63.47	3.074	20.0
30	28.220	33.976	4.68	28.213	21.558	29.799	37.690	0.191	0.3	-56.19	13.389	599.95	9.453	30.0
40	27.785	34.110	4.79	27.776	21.800	30.051	37.950	0.252	0.5	-49.15	15.092	575.02	9.254	40.0
50	27.523	34.276	4.71	27.512	22.011	30.266	38.169	0.311	0.8	23.75	22.987	202.67	5.494	50.0
100	25.721	34.675	4.40	25.699	22.883	31.179	39.120	0.587	2.9	-86.24	8.148	690.29	10.139	100.0
125	23.445	34.934	4.02	23.419	23.764	32.116	40.110	0.702	4.2	-57.92	4.121	428.49	7.989	125.0
150	20.979	34.859	3.71	20.950	24.402	32.825	40.886	0.801	5.6	-101.76	0.708	618.96	9.601	149.9
200	15.848	34.663	3.40	15.817	25.531	34.122	42.340	0.951	8.2	-99.95	-6.410	374.87	7.472	199.8
250	11.979	34.455	2.73	11.946	26.176	34.915	43.271	1.059	10.7	-51.40	-0.912	197.61	5.425	249.5
300	10.801	34.518	1.98	10.764	26.443	35.229	43.629	1.146	13.1	-21.27	-0.101	80.45	3.461	299.3
350	9.769	34.532	1.72	9.728	26.633	35.462	43.903	1.224	15.7	-29.57	-0.623	97.74	3.815	349.0
400	8.685	34.553	1.52	8.642	26.825	35.701	44.186	1.292	18.3	-9.84	0.564	43.41	2.543	398.7
450	8.127	34.545	1.65	8.081	26.905	35.806	44.315	1.355	21.1	-10.85	-0.313	31.61	2.170	448.4
500	7.576	34.530	1.76	7.527	26.974	35.901	44.433	1.415	24.0	-13.84	-0.387	38.99	2.410	498.0
600	6.863	34.522	1.97	6.807	27.069	36.029	44.593	1.526	30.2	-7.48	-0.169	20.64	1.753	597.3
700	6.204	34.520	1.98	6.141	27.155	36.147	44.741	1.630	37.1	-4.83	0.031	15.37	1.513	696.6
800	5.733	34.523	2.01	5.663	27.218	36.233	44.848	1.728	44.6	-5.36	0.063	17.10	1.596	795.7
900	5.255	34.530	2.00	5.179	27.282	36.320	44.958	1.820	52.5	-4.16	0.078	13.28	1.407	894.9
1000	4.541	34.545	2.01	4.461	27.376	36.450	45.121	1.906	60.8	-7.92	0.177	25.55	1.951	993.9
1200	3.560	34.573	2.16	3.472	27.500	36.625	45.343	2.053	77.3	-3.79	0.127	12.44	1.361	1191.9
1400	3.079	34.592	2.31	2.978	27.561	36.712	45.455	2.183	94.4	-2.27	0.086	7.52	1.058	1389.7
1600	2.708	34.607	2.41	2.596	27.607	36.778	45.540	2.302	112.7	-1.61	0.075	5.59	0.912	1587.3
1800	2.411	34.622	2.54	2.285	27.646	36.833	45.611	2.413	132.0	-1.24	0.056	4.35	0.805	1784.7
2000	2.204	34.632	2.65	2.064	27.672	36.872	45.660	2.520	152.6	-1.06	0.052	3.86	0.758	1981.9
2200	2.053	34.640	2.75	1.899	27.691	36.900	45.697	2.621	174.4	-0.89	0.039	3.19	0.689	2178.9
2400	1.876	34.649	2.89	1.707	27.714	36.933	45.739	2.720	197.5	-0.89	0.047	3.39	0.710	2375.7
2600	1.753	34.657	3.02	1.569	27.730	36.956	45.770	2.815	221.6	-0.52	0.031	2.07	0.556	2572.4
2800	1.656	34.664	3.13	1.455	27.744	36.977	45.796	2.907	247.1	-0.63	0.037	2.58	0.620	2768.9
3000	1.598	34.668	3.24	1.379	27.753	36.990	45.814	2.997	273.7	-0.32	0.021	1.34	0.447	2965.1
3200	1.564	34.672	3.33	1.326	27.760	37.000	45.826	3.087	302.1	-0.20	0.016	0.92	0.371	3161.3
3400	1.546	34.675	3.39	1.289	27.765	37.007	45.835	3.176	332.3	-0.16	0.012	0.75	0.334	3357.2
3600	1.542	34.677	3.44	1.264	27.768	37.011	45.841	3.267	364.4	-0.07	0.006	0.35	0.230	3552.9
3800	1.555	34.678	3.46	1.256	27.769	37.013	45.843	3.358	398.9	-0.03	0.003	0.14	0.144	3748.5
4000	1.573	34.679	3.47	1.252	27.770	37.014	45.844	3.451	435.8	-0.02	0.001	0.07	0.104	3943.9
4200	1.593	34.679	3.49	1.249	27.770	37.014	45.845	3.545	475.3	-0.02	0.002	0.09	0.117	4139.2
4400	1.613	34.679	3.48	1.246	27.771	37.015	45.846	3.641	517.5	-0.01	0.002	0.09	0.000	4334.3
4449	1.619	34.679	3.51	1.246	27.771	37.015	45.846	3.665	528.2	-0.01	0.002	0.09	0.000	4382.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.518	28.519	21.415	29.650	37.534	33.919	33.918	4.68	1.81	0.11	-0.01	0.01			1	222222255
23	51.2	27.343	27.331	22.030	30.290	38.198	34.225	34.230	4.59	1.61	0.22	0.06	0.04			50	222222255
22	99.0	26.093	26.071	22.756	31.042	38.974	34.659	34.646	4.42	2.32	0.24	0.08	0.02			98	222222255
21	149.5	21.649	21.620	24.219	32.623	40.665	34.861	34.864	3.89	5.04	0.50	4.44	0.06			148	222222255
20	199.8	14.473	14.444	25.903	34.542	42.806	34.754	34.592	3.44	14.10	1.15	14.48	0.02			198	222222255
19	300.3	10.362	10.326	26.516	35.320	43.737	34.513	34.511	1.96	33.34	2.12	28.89	0.01			298	222222255
18	398.8	8.543	8.501	26.842	35.724	44.215	34.547	34.556	1.59	42.61	2.48	34.59	0.01			396	222222255
17	498.7	7.597	7.548	26.942	35.868	44.400	34.493	34.530	1.73	48.96	2.55	35.59	0.01			495	222222255
16	597.0	6.739	6.683	27.084	36.050	44.620	34.520	34.519	1.97	56.41	2.62	36.49	0.01			592	222222255
15	798.7	5.630	5.561	27.230	36.250	44.870	34.523	34.523	1.98	72.63	2.78	38.59	0.01			792	222222255
14	996.5	4.391	4.313	27.394	36.476	45.154	34.548	34.549	2.00	95.20	2.83	39.39	0.01			988	222222255
13	1197.9	3.473	3.385	27.511	36.640	45.363	34.576	34.576	2.17	115.95	2.89	40.19	0.01			1187	222222255
12	1496.6	2.823	2.717	27.593	36.757	45.513	34.602	34.603	2.36	129.05	2.89	40.09	0.01			1482	222222255
11	1796.8	2.392	2.267	27.648	36.836	45.615	34.623	34.626	2.54	137.11	2.85	39.79	0.01			1779	222222255
10	2247.7	2.008	1.850	27.698	36.909	45.708	34.643	34.643	2.80	143.86	2.80	39.39	0.01			2223	222222255
9	2498.6	1.818	1.641	27.722	36.945	45.755	34.654	34.655	2.90	146.98	2.77	38.89	0.01			2469	222222255
8	2749.2	1.688	1.491	27.740	36.971	45.789	34.662	34.663	3.12	147.28	2.73	38.59	0.01			2716	222222255
7	2998.7	1.595	1.377	27.754	36.991	45.815	34.669	34.669	3.24	147.38	2.69	38.09	0.01			2960	222222255
6	3250.0	1.560	1.318	27.761	37.001	45.828	34.673	34.674	3.38	146.98	2.68	37.79	0.01			3207	222222255
5	3501.3	1.542	1.275	27.767	37.010	45.839	34.677	34.678	3.43	146.27	2.68	38.19	0.01			3453	222222255
4	3751.8	1.552	1.259	27.769	37.013	45.843	34.678	34.678	3.46	146.17	2.64	37.59	0.01			3698	222222255
3	4000.7	1.573	1.252	27.770	37.014	45.844	34.679	34.677	3.47	145.87	2.64	37.40	0.00			3941	222222255
2	4255.3	1.598	1.248	27.771	37.015	45.845	34.679	34.678	3.48	146.07	2.63	38.28	0.02			4189	222222255
1	4448.7	1.618	1.245	27.772	37.016	45.847	34.681	34.678	3.49	145.67	2.63	37.58	0.02			4378	222222255

CRUISE: MW 893 STA: 18 DATE (D/M/Y): 13- 2-89 TIME: 0458 LAT: 8 39.85 N LONG: 133 14.68 E

GRAVITY= 9.7815 M/S CORIOLIS= 0.21970E-04 1/S SOUND SPEED= 1503.3 M/S Depth= 4645 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.136	33.879	4.06	29.136	21.179	29.401	37.272	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.136	33.879	4.06	29.136	21.179	29.401	37.273	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.642	33.892	4.92	28.637	21.355	29.588	37.470	0.130	0.1	-2.47	0.259	21.70	1.781	20.0
30	28.620	33.896	4.92	28.613	21.366	29.599	37.482	0.194	0.3	-16.72	3.059	167.86	4.953	30.0
40	28.281	33.997	4.97	28.272	21.554	29.794	37.683	0.258	0.5	-49.23	16.268	608.97	9.434	40.0
50	27.739	34.162	5.02	27.728	21.855	30.106	38.006	0.319	0.8	-18.12	8.704	266.94	6.246	50.0
100	26.716	34.586	4.34	26.694	22.505	30.777	38.695	0.602	3.0	-95.61	-0.160	638.47	9.660	100.0
125	23.297	34.932	4.10	23.271	23.806	32.162	40.160	0.724	4.3	-153.90	15.906	1234.13	13.430	125.0
150	20.394	34.882	3.92	20.366	24.576	33.016	41.093	0.817	5.7	-142.91	-5.650	744.89	10.434	149.9
200	15.306	34.638	3.03	15.275	25.633	34.243	42.480	0.961	8.2	-90.92	-5.061	361.43	7.268	199.8
250	12.383	34.523	2.50	12.349	26.152	34.874	43.214	1.069	10.7	-43.94	-0.202	184.42	5.192	249.5
300	10.487	34.508	1.91	10.452	26.490	35.289	43.702	1.156	13.1	-31.23	0.019	121.60	4.216	299.3
350	9.343	34.539	1.56	9.304	26.709	35.556	44.014	1.230	15.6	-15.36	0.149	58.95	2.935	349.0
400	8.673	34.522	1.53	8.631	26.803	35.680	44.166	1.298	18.2	-12.30	-0.170	40.71	2.439	398.7
450	8.254	34.536	1.54	8.207	26.878	35.774	44.277	1.362	20.9	-8.99	-0.264	26.59	1.971	448.4
500	7.663	34.517	1.72	7.613	26.952	35.875	44.404	1.423	23.9	-9.73	-0.002	32.70	2.186	498.0
600	7.011	34.528	1.79	6.954	27.053	36.007	44.564	1.536	30.2	-6.64	-0.019	21.52	1.773	597.3
700	6.465	34.527	1.93	6.400	27.128	36.107	44.689	1.643	37.3	-5.99	0.000	18.99	1.666	696.6
800	5.925	34.528	1.94	5.854	27.198	36.204	44.810	1.743	44.9	-4.61	0.021	14.56	1.459	795.8
900	5.464	34.530	1.96	5.387	27.258	36.286	44.914	1.838	53.1	-4.58	0.072	15.04	1.483	894.9
1000	4.944	34.539	1.95	4.861	27.326	36.380	45.032	1.927	61.8	-4.71	0.094	15.52	1.506	994.0
1200	3.834	34.568	2.06	3.743	27.469	36.579	45.285	2.084	79.4	-4.82	0.144	16.08	1.533	1192.0
1400	3.165	34.588	2.21	3.063	27.550	36.697	45.435	2.218	97.1	-2.67	0.071	8.60	1.121	1389.7
1600	2.739	34.606	2.33	2.626	27.604	36.773	45.533	2.340	115.7	-1.93	0.080	6.72	0.991	1587.3
1800	2.422	34.622	2.47	2.296	27.645	36.832	45.608	2.453	135.3	-1.22	0.065	4.52	0.813	1784.7
2000	2.192	34.633	2.60	2.053	27.673	36.873	45.662	2.559	155.9	-1.17	0.053	4.24	0.787	1981.9
2200	1.996	34.643	2.77	1.842	27.698	36.910	45.710	2.660	177.4	-1.06	0.051	3.96	0.761	2178.9
2400	1.820	34.653	2.93	1.652	27.721	36.943	45.752	2.756	200.0	-0.83	0.046	3.24	0.689	2375.8
2600	1.720	34.659	3.03	1.536	27.734	36.963	45.778	2.849	223.7	-0.53	0.029	2.13	0.558	2572.4
2800	1.648	34.665	3.17	1.446	27.745	36.979	45.799	2.940	248.8	-0.38	0.023	1.60	0.484	2768.9
3000	1.593	34.670	3.25	1.374	27.754	36.991	45.815	3.030	275.5	-0.32	0.021	1.38	0.449	2965.2
3200	1.567	34.673	3.34	1.329	27.760	37.000	45.826	3.120	303.8	-0.27	0.018	1.19	0.418	3161.3
3400	1.545	34.676	3.39	1.288	27.766	37.008	45.836	3.209	333.9	-0.14	0.009	0.62	0.302	3357.2
3600	1.545	34.678	3.43	1.267	27.768	37.011	45.841	3.299	366.1	-0.08	0.007	0.38	0.237	3553.0
3800	1.553	34.679	3.44	1.254	27.770	37.014	45.844	3.390	400.5	-0.04	0.004	0.22	0.179	3748.5
4000	1.570	34.679	3.45	1.249	27.771	37.015	45.845	3.483	437.3	-0.02	0.000	0.07	0.104	3944.0
4200	1.589	34.680	3.45	1.246	27.771	37.016	45.846	3.577	476.7	-0.01	0.001	0.05	0.089	4139.2
4400	1.612	34.680	3.44	1.245	27.771	37.016	45.846	3.673	518.8	-0.01	0.001	0.06	0.094	4334.3
4600	1.634	34.680	3.45	1.243	27.772	37.016	45.847	3.771	563.6	-0.01	0.002	0.06	0.000	4529.2
4607	1.635	34.680	3.45	1.243	27.772	37.016	45.847	3.774	565.3	-0.01	0.002	0.06	0.000	4536.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	50.7	27.562	27.550	21.985	30.239	38.142	34.258	34.264	4.70	1.31	0.14	0.11	-0.01	1.605	0.803	50	222222222
23	73.8	27.758	27.741	22.267	30.511	38.405	34.715	34.722	4.25	1.81	0.32	0.93	0.27		0.887	73	222222252
22	98.8	26.590	26.567	22.544	30.819	38.740	34.585	34.574	4.17	2.72	0.30	1.65	0.35		0.865	98	222222252
21	124.9	23.836	23.810	23.536	31.879	39.865	34.784	34.791	4.16	3.22	0.30	0.97	0.23	1.761	0.846	124	222222222
20	148.7	20.354	20.326	24.482	32.925	41.005	34.744	34.886	3.83	5.54	0.50	5.48	0.02	1.736	0.903	147	222222222
19	176.1	17.401	17.372	25.245	33.781	41.949	34.763	34.762	3.53	9.67	0.83	10.19	0.01	1.702	0.816	175	222222222
18	198.0	14.469	14.440	25.771	34.413	42.679	34.582	34.592	3.27	16.82	1.21	15.91	-0.01			196	222222255
17	248.5	12.010	11.977	26.221	34.957	43.312	34.520	34.520	2.52	25.49	1.72	23.50	0.00	0.894	0.436	246	222222222
16	298.7	10.321	10.285	26.519	35.325	43.744	34.508	34.509	2.00	33.75	2.11	29.00	0.00			296	222222255
15	399.3	8.590	8.548	26.815	35.696	44.185	34.522	34.519	1.55	44.43	2.45	34.30	0.00		0.107	396	222222252
14	497.4	7.620	7.571	26.961	35.885	44.416	34.521	34.517	1.70	50.97	2.54	35.10	0.00			494	222222255
13	748.4	6.139	6.071	27.169	36.164	44.761	34.526	34.523	1.90	65.78	2.69	37.20	0.00		0.026	742	222222252
12	997.1	4.948	4.865	27.323	36.377	45.029	34.536	34.537	1.95	86.33	2.80	38.80	0.00	0.009		989	222222225
11	1494.9	2.962	2.855	27.575	36.732	45.481	34.595	34.594	2.30	127.13	2.84	39.40	0.00		0.010	1481	222222252
10	1995.0	2.192	2.053	27.675	36.875	45.664	34.635	34.633	2.64	141.74	2.80	39.00	0.00			1974	222222255
9	2245.8	1.980	1.823	27.701	36.913	45.714	34.645	34.644	2.78	144.76	2.76	38.70	0.00		0.024	2221	222222252
8	2497.7	1.792	1.616	27.726	36.950	45.761	34.657	34.656	2.95	147.28	2.71	38.80	0.00	0.014	0.002	2468	222222222
7	2746.5	1.668	1.472	27.743	36.975	45.793	34.664	34.664	3.16	147.28	2.67	38.30	0.00	-0.011	0.015	2713	222222222
6	2999.3	1.605	1.386	27.753	36.990	45.813	34.670	34.670	3.25	147.08	2.64	38.10	0.00	-0.001	0.009	2961	222222222
5	3399.1	1.546	1.289	27.766	37.008	45.836	34.676	34.676	3.41	146.58	2.60	37.60	0.00			3353	222222255
4	3802.9	1.554	1.255	27.770	37.013	45.844	34.679	34.678	3.42	145.87	2.59	37.50	0.00	0.023	-0.001	3747	222222222
3	4200.3	1.589	1.246	27.771	37.016	45.846	34.680	34.679	3.48	145.87	2.58	37.40	0.00			4135	222222255
2	4605.3	1.635	1.244	27.772	37.016	45.847	34.680		3.44	145.77	2.58	37.40	0.00			4530	252222255

CRUISE: MW 893 STA: 19 DATE (D/M/Y): 13- 2-89 TIME: 1302 LAT: 8 49.98 N LONG: 134 5.05 E

GRAVITY= 9.7815 M/S CORIOLIS= 0.22395E-04 1/S SOUND SPEED= 1500.8 M/S Depth= 4277 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.850	33.900	4.19	28.850	21.291	29.518	37.396	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.850	33.900	4.19	28.849	21.291	29.518	37.396	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.718	33.893	4.92	28.713	21.331	29.562	37.442	0.130	0.1	-17.02	0.818	136.78	4.429	20.0
30	28.591	33.915	4.79	28.584	21.389	29.623	37.506	0.194	0.3	-2.82	4.755	98.62	3.760	30.0
40	28.573	33.950	4.91	28.563	21.423	29.657	37.540	0.258	0.5	0.22	4.074	65.39	3.062	40.0
50	28.592	34.007	4.88	28.580	21.460	29.693	37.575	0.322	0.8	-0.17	3.424	57.50	2.871	50.0
100	26.135	34.667	4.59	26.112	22.749	31.034	38.965	0.617	3.0	-124.59	10.201	1005.96	12.010	100.0
125	22.713	34.823	4.12	22.688	23.890	32.264	40.278	0.728	4.3	-105.49	1.157	640.66	9.584	125.0
150	19.481	34.883	3.90	19.454	24.816	33.284	41.388	0.818	5.6	-116.05	-1.227	661.71	9.741	149.9
200	14.075	34.572	2.94	14.046	25.847	34.504	42.783	0.950	7.9	-81.08	-3.358	324.54	6.822	199.7
250	11.018	34.495	2.07	10.987	26.385	35.161	43.554	1.047	10.1	-44.11	-0.063	180.10	5.082	249.5
300	9.492	34.525	1.54	9.459	26.672	35.513	43.965	1.124	12.3	-13.88	0.544	61.83	2.977	299.2
350	9.005	34.572	1.32	8.966	26.789	35.650	44.122	1.193	14.6	-16.75	0.081	62.49	2.993	349.0
400	8.387	34.561	1.48	8.345	26.877	35.766	44.264	1.257	17.0	-9.10	-0.225	28.29	2.014	398.7
450	7.926	34.546	1.64	7.881	26.935	35.846	44.363	1.317	19.6	-6.33	-0.261	17.52	1.585	448.3
500	7.629	34.540	1.76	7.579	26.974	35.898	44.428	1.376	22.5	-11.60	-0.403	32.60	2.162	498.0
600	6.958	34.536	1.95	6.901	27.067	36.022	44.582	1.488	28.7	-4.84	-0.021	15.70	1.500	597.3
700	6.273	34.525	1.97	6.210	27.151	36.139	44.730	1.593	35.7	-9.15	-0.043	28.75	2.030	696.5
800	5.453	34.533	1.96	5.385	27.259	36.288	44.916	1.689	43.0	-7.13	0.063	23.30	1.828	795.7
900	5.148	34.536	1.95	5.073	27.299	36.343	44.985	1.777	50.7	-5.13	0.074	16.26	1.527	894.8
1000	4.604	34.547	1.99	4.524	27.370	36.441	45.109	1.861	58.8	-3.76	0.124	13.28	1.380	993.9
1200	3.856	34.567	2.08	3.764	27.466	36.575	45.280	2.013	75.8	-4.27	0.119	14.23	1.429	1191.9
1400	3.075	34.591	2.25	2.974	27.561	36.712	45.455	2.145	93.3	-2.83	0.111	9.87	1.190	1389.7
1600	2.681	34.608	2.39	2.569	27.611	36.783	45.546	2.264	111.4	-1.64	0.077	5.92	0.921	1587.2
1800	2.387	34.623	2.50	2.262	27.648	36.837	45.616	2.374	130.6	-1.21	0.056	4.38	0.792	1784.6
2000	2.137	34.635	2.62	1.998	27.679	36.883	45.674	2.480	151.0	-1.18	0.057	4.41	0.795	1981.8
2200	2.024	34.642	2.74	1.870	27.695	36.905	45.703	2.580	172.5	-0.91	0.045	3.45	0.703	2178.8
2400	1.830	34.652	2.91	1.662	27.719	36.941	45.750	2.676	195.1	-0.76	0.040	2.98	0.654	2375.7
2600	1.741	34.658	3.01	1.556	27.732	36.959	45.774	2.770	219.0	-0.41	0.025	1.68	0.491	2572.3
2800	1.656	34.664	3.12	1.454	27.744	36.977	45.797	2.862	244.2	-0.47	0.025	1.93	0.526	2768.8
3000	1.599	34.669	3.24	1.380	27.753	36.990	45.814	2.952	270.9	-0.27	0.020	1.25	0.423	2965.1
3200	1.567	34.673	3.33	1.329	27.760	36.999	45.826	3.042	299.3	-0.25	0.019	1.17	0.409	3161.2
3400	1.548	34.676	3.40	1.291	27.765	37.007	45.835	3.132	329.6	-0.19	0.013	0.91	0.361	3357.1
3600	1.546	34.678	3.43	1.268	27.768	37.011	45.841	3.222	361.8	-0.09	0.008	0.47	0.259	3552.9
3800	1.553	34.679	3.45	1.254	27.770	37.014	45.844	3.313	396.2	-0.05	0.004	0.26	0.194	3748.5
4000	1.572	34.679	3.49	1.251	27.770	37.014	45.845	3.406	433.0	0.00	0.000	0.00	-0.009	3943.9
4200	1.593	34.679	3.50	1.249	27.771	37.015	45.845	3.500	472.4	-0.01	0.002	0.00	0.000	4139.1
4281	1.602	34.679	3.50	1.249	27.771	37.015	45.845	3.539	489.2	-0.01	0.000	0.00	0.000	4218.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
1	5.5	28.737	28.735	21.325	29.556	37.436	33.896	33.894	5.00							5	222555555
24	49.2	28.497	28.486	21.455	29.691	37.576	33.959	33.956	4.99	1.61	0.10	0.10	0.00			48	222222255
23	98.9	26.756	26.733	22.497	30.767	38.685	34.592	34.591	4.51	2.12	0.24	0.20	0.00			98	222222255
22	197.8	15.048	15.019	25.683	34.302	42.548	34.629	34.631	3.08	14.91	1.20	15.69	0.01			196	222222255
21	296.8	9.605	9.571	26.651	35.487	43.934	34.522	34.518	1.60	37.78	2.27	31.99	0.01			294	222222255
20	396.1	8.334	8.293	26.883	35.774	44.274	34.558	34.554	1.52	44.33	2.49	35.29	0.01			393	222222255
19	498.0	7.694	7.644	26.965	35.886	44.414	34.540	34.537	1.66	48.96	2.53	35.90	0.00			494	222222255
18	745.1	6.363	6.294	27.136	36.120	44.707	34.521	34.525	1.92	62.36	2.65	37.60	0.00			739	222222255
17	1001.2	4.657	4.576	27.362	36.431	45.096	34.544	34.546	1.95	92.18	2.82	39.70	0.00			993	222222255
16	1196.9	3.957	3.865	27.452	36.557	45.256	34.563	34.562	2.09	106.48	2.84	40.20	0.00			1186	222222255
15	1395.1	3.130	3.029	27.555	36.703	45.444	34.590	34.591	2.21	123.00	2.84	40.30	0.00			1382	222222255
14	1597.1	2.692	2.579	27.610	36.781	45.544	34.608	34.607	2.37	131.97	2.82	40.20	0.00			1582	222222255
13	1789.8	2.399	2.274	27.649	36.837	45.615	34.625	34.622	2.49	137.11	2.81	39.90	0.00			1772	222222255
12	1993.4	2.113	1.975	27.686	36.890	45.683	34.640	34.636	2.66	142.04	2.77	39.70	0.00			1972	222222255
11	2199.4	1.995	1.842	27.699	36.910	45.710	34.644	34.644	2.75	143.86	2.76	39.40	0.00			2175	222222255
10	2394.4	1.858	1.690	27.718	36.938	45.746	34.654	34.652	2.90	145.87	2.74	39.10	0.00			2367	222222255
9	2597.1	1.753	1.569	27.731	36.958	45.771	34.658	34.658	3.00	146.88	2.71	38.80	0.00			2566	222222255
8	2798.2	1.649	1.448	27.746	36.979	45.799	34.666	34.665	3.15	147.38	2.68	38.40	0.00			2764	222222255
7	3001.0	1.592	1.373	27.754	36.991	45.815	34.669	34.669	3.25	146.68	2.67	38.09	0.01			2963	222222255
6	3246.6	1.560	1.318	27.761	37.001	45.828	34.673	34.674	3.34	146.17	2.63	37.89	0.01			3203	222222255
5	3499.1	1.546	1.279	27.767	37.010	45.839	34.678	34.676	3.39	145.67	2.61	37.79	0.01			3450	222222255
4	3752.7	1.552	1.258	27.770	37.013	45.843	34.679	34.678	3.43	145.07	2.58	37.49	0.01			3698	222222255
3	4001.6	1.571	1.250	27.771	37.015	45.846	34.680	34.678	3.43	145.57	2.60	37.59	0.01			3941	222222255
2	4280.6	1.602	1.249	27.771	37.015	45.845	34.679	34.679	3.50	145.17	2.59	37.49	0.01			4214	222222255

CRUISE: MW 893 STA: 20 DATE (D/M/Y): 13- 2-89 TIME: 1952 LAT: 8 56.29 N LONG: 134 34.80 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22659E-04 1/S SOUND SPEED= 1492.9 M/S Depth= 1776 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.006	33.956	4.04	29.006	21.281	29.504	37.378	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.006	33.956	4.04	29.006	21.281	29.504	37.378	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	29.022	33.949	4.81	29.017	21.272	29.495	37.369	0.130	0.1	-3.88	-1.092	10.46	1.217	20.0
30	28.777	33.908	4.88	28.770	21.323	29.552	37.432	0.195	0.3	-31.82	-3.925	168.49	4.886	30.0
40	28.615	33.915	4.77	28.605	21.383	29.616	37.499	0.260	0.5	-4.08	2.406	69.93	3.148	40.0
50	28.518	33.923	4.75	28.506	21.422	29.657	37.542	0.324	0.8	-10.07	1.091	91.75	3.606	50.0
100	27.779	34.419	4.60	27.756	22.039	30.287	38.183	0.636	3.2	-87.42	19.831	943.77	11.565	100.1
125	24.056	34.884	4.20	24.030	23.547	31.883	39.862	0.765	4.7	-147.17	8.287	1176.37	12.911	125.0
150	20.348	34.905	3.95	20.320	24.606	33.047	41.125	0.864	6.1	-142.64	-1.472	852.60	10.992	150.0
200	14.322	34.596	2.84	14.292	25.814	34.461	42.731	0.999	8.4	-68.92	-2.718	283.95	6.343	199.8
250	11.298	34.498	2.12	11.267	26.337	35.102	43.484	1.098	10.7	-51.67	-0.119	214.66	5.515	249.6
300	9.808	34.531	1.55	9.774	26.624	35.451	43.890	1.177	12.9	-14.26	0.789	68.93	3.125	299.3
350	9.314	34.562	1.33	9.275	26.731	35.579	44.038	1.248	15.3	-8.27	0.337	36.97	2.289	349.0
400	8.700	34.565	1.39	8.657	26.832	35.707	44.192	1.314	17.8	-11.57	-0.077	41.18	2.416	398.7
450	8.259	34.549	1.50	8.212	26.888	35.783	44.286	1.378	20.5	-7.86	-0.088	26.59	1.941	448.4
500	7.863	34.546	1.62	7.812	26.945	35.858	44.379	1.438	23.5	-7.33	0.175	28.78	2.019	498.1
600	7.144	34.540	1.88	7.086	27.045	35.992	44.543	1.554	30.0	-11.16	-0.323	32.49	2.146	597.3
700	6.431	34.523	1.95	6.367	27.129	36.110	44.693	1.660	37.0	-6.55	-0.106	19.51	1.663	696.6
800	5.843	34.522	1.93	5.773	27.204	36.214	44.824	1.759	44.6	-6.28	0.013	19.95	1.681	795.8
900	5.117	34.532	1.94	5.042	27.299	36.345	44.989	1.851	52.6	-6.33	0.127	21.66	1.752	894.9
1000	4.707	34.542	1.94	4.626	27.355	36.421	45.084	1.936	60.8	-3.95	0.109	13.86	1.402	994.0
1200	3.742	34.567	2.04	3.652	27.477	36.593	45.303	2.087	77.7	-3.08	0.098	10.63	1.227	1192.0
1400	3.084	34.592	2.24	2.983	27.561	36.711	45.454	2.220	95.2	-2.64	0.090	9.13	1.138	1389.7
1600	2.701	34.608	2.36	2.588	27.609	36.780	45.542	2.340	113.6	-1.70	0.076	6.21	0.938	1587.3
1769	2.470	34.619	2.44	2.346	27.639	36.823	45.597	2.436	130.1	-1.77	0.079	6.21	0.000	1754.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.9	29.014	29.013	21.266	29.489	37.363	33.939	33.938	4.61	1.91	0.07	0.11	-0.01			4	222222255
23	51.8	28.500	28.488	21.434	29.669	37.555	33.931	33.926	4.61	1.71	0.07	0.11	-0.01			51	222222255
22	70.6	28.487	28.471	21.492	29.727	37.612	34.001	34.001	4.66	1.91	0.10	0.11	-0.01			70	222222255
21	98.9	27.868	27.845	22.003	30.249	38.143	34.410	34.346	4.60	2.12	0.13	0.11	-0.01			98	222222255
20	122.9	23.899	23.873	23.639	31.979	39.962	34.945	34.880	4.17	2.82	0.31	0.98	0.22	1.719	0.843	122	222222222
19	150.9	18.514	18.487	25.243	33.739	41.868	35.119	34.898	3.80	5.14	0.56	5.09	0.01			149	222222255
18	200.1	13.797	13.769	25.908	34.575	42.864	34.576	34.586	2.71	20.05	1.47	19.61	-0.01	1.037		198	222222225
17	249.5	10.531	10.501	26.506	35.302	43.713	34.539	34.509	1.92	32.34	2.09	28.61	-0.01			247	222222255
16	298.5	9.421	9.388	26.712	35.555	44.009	34.561	34.549	1.48	37.78	2.38	32.61	-0.01	0.219	0.102	296	222222222
15	349.7	9.169	9.130	26.764	35.618	44.083	34.575	34.564	1.39	39.79	2.43	33.81	-0.01			347	222222255
14	398.9	8.702	8.659	26.830	35.705	44.189	34.563	34.563	1.45	42.31	2.48	34.70	0.00		0.069	396	222222252
13	449.9	8.174	8.128	26.904	35.803	44.310	34.554	34.550	1.51	45.64	2.53	35.30	0.00			446	222222255
12	496.0	7.716	7.667	26.966	35.886	44.412	34.545	34.543	1.63	48.46	2.57	35.90	0.00	0.039		492	222222225
11	598.2	7.085	7.028	27.050	36.000	44.554	34.537	34.536	1.81	53.29	2.62	36.40	0.00			593	222222255
10	697.2	6.235	6.172	27.151	36.142	44.734	34.520	34.517	1.92	64.47	2.71	37.60	0.00	0.038	0.027	692	222222222
9	895.3	5.087	5.012	27.303	36.350	44.995	34.533	34.531	1.88	84.02	2.83	39.20	0.00			888	222222255
8	999.5	4.618	4.538	27.368	36.438	45.105	34.546	34.543	1.95	93.39	2.87	39.70	0.00			991	222222255
7	1198.5	3.648	3.559	27.491	36.611	45.325	34.572	34.571		113.63	2.89	40.20	0.00			1188	225222255
6	1401.8	3.089	2.988	27.560	36.710	45.453	34.591	34.591	2.26	124.31	2.89	40.10	0.00	0.012	0.013	1389	222222222
5	1500.9	2.916	2.809	27.583	36.742	45.493	34.599	34.598	2.27	127.74	2.91	40.00	0.00			1487	222222255
4	1653.7	2.659	2.542	27.615	36.789	45.554	34.611	34.611	2.36	133.08	2.86	40.00	0.00	0.014	0.000	1637	222222225
3	1727.1	2.611	2.489	27.622	36.798	45.566	34.613	34.613	2.38	133.98	2.85	40.00	0.00			1710	222222255
2	1769.0	2.471	2.347	27.639	36.823	45.597	34.620	34.620	2.47	136.10	2.84	40.00	0.00	0.006	-0.009	1751	222222222
1	1769.0	2.471	2.347	27.639	36.823	45.597	34.620	34.620	2.47	136.10	2.84	40.00	0.00	-0.021	-0.013	1751	222222222

CRUISE: MW 893 STA: 21 DATE (D/M/Y): 13- 2-89 TIME: 2343 LAT: 8 58.19 N LONG: 134 47.21 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22739E-04 1/S SOUND SPEED= 1503.0 M/S Depth= 4589 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.877	33.947	4.76	28.877	21.317	29.543	37.420	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.877	33.947	4.76	28.877	21.317	29.544	37.420	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.906	33.937	4.85	28.902	21.301	29.527	37.403	0.130	0.1	-1.30	-0.466	1.80	0.504	20.0
30	28.810	33.914	4.79	28.803	21.317	29.546	37.424	0.195	0.3	-25.76	-3.917	124.51	4.193	30.0
40	28.605	33.899	4.90	28.596	21.374	29.607	37.491	0.259	0.5	-4.94	0.900	51.33	2.692	40.0
50	28.558	33.913	4.87	28.546	21.401	29.635	37.519	0.323	0.8	-7.66	4.038	123.59	4.178	50.0
100	27.170	34.555	4.64	27.147	22.338	30.599	38.507	0.633	3.2	-102.21	17.925	1014.97	11.972	100.1
125	23.154	34.884	4.04	23.128	23.810	32.171	40.173	0.758	4.6	-221.03	8.738	1678.53	15.396	125.0
150	20.800	34.934	3.84	20.772	24.507	32.934	41.000	0.849	5.9	-33.01	-0.196	188.60	5.161	150.0
200	15.441	34.645	2.94	15.411	25.608	34.214	42.446	0.997	8.5	-77.26	-3.689	329.84	6.825	199.8
250	12.428	34.530	2.34	12.394	26.149	34.868	43.207	1.106	11.0	-60.79	-1.733	239.04	5.810	249.6
300	10.454	34.526	1.72	10.418	26.510	35.310	43.724	1.192	13.4	-27.81	0.208	114.67	4.024	299.3
350	9.097	34.563	1.40	9.059	26.767	35.624	44.092	1.265	15.8	-14.90	1.114	75.24	3.260	349.0
400	8.528	34.542	1.51	8.486	26.841	35.724	44.215	1.330	18.3	-14.44	-1.244	30.60	2.079	398.7
450	7.984	34.536	1.64	7.939	26.919	35.826	44.341	1.392	21.0	-8.41	-0.190	26.38	1.930	448.4
500	7.652	34.541	1.71	7.602	26.972	35.895	44.424	1.451	23.8	-6.68	0.198	26.58	1.937	498.1
600	6.880	34.524	1.85	6.823	27.069	36.028	44.591	1.563	30.1	-7.20	-0.121	22.08	1.766	597.4
700	6.188	34.517	1.95	6.124	27.156	36.148	44.743	1.667	37.0	-7.27	0.005	23.84	1.835	696.6
800	5.624	34.529	1.90	5.555	27.236	36.256	44.876	1.764	44.4	-5.99	-0.006	18.73	1.626	795.8
900	5.137	34.532	1.95	5.062	27.297	36.342	44.985	1.854	52.2	-3.37	0.125	12.38	1.322	894.9
1000	4.609	34.546	1.99	4.528	27.368	36.439	45.107	1.939	60.4	-5.17	0.112	17.60	1.576	994.0
1200	3.822	34.566	2.08	3.731	27.469	36.580	45.286	2.091	77.5	-3.87	0.109	13.14	1.362	1192.0
1400	3.178	34.586	2.23	3.077	27.548	36.693	45.431	2.225	95.2	-2.64	0.099	9.31	1.147	1389.7
1600	2.751	34.603	2.36	2.638	27.601	36.770	45.529	2.347	113.8	-2.19	0.095	7.91	1.057	1587.3
1800	2.387	34.622	2.52	2.262	27.647	36.836	45.615	2.459	133.2	-1.30	0.063	4.87	0.829	1784.7
2000	2.149	34.634	2.65	2.010	27.678	36.880	45.672	2.564	153.5	-1.20	0.058	4.57	0.803	1981.9
2200	1.999	34.642	2.77	1.845	27.697	36.909	45.708	2.664	174.9	-0.63	0.029	2.40	0.582	2178.9
2400	1.852	34.651	2.88	1.684	27.716	36.937	45.745	2.761	197.8	-0.88	0.049	3.59	0.712	2375.8
2600	1.740	34.658	3.00	1.556	27.732	36.959	45.773	2.855	221.8	-0.58	0.033	2.41	0.583	2572.4
2800	1.646	34.664	3.12	1.444	27.745	36.978	45.798	2.947	247.1	-0.54	0.033	2.33	0.574	2768.9
3000	1.593	34.669	3.22	1.374	27.754	36.991	45.815	3.037	273.7	-0.37	0.025	1.67	0.486	2965.1
3200	1.554	34.673	3.31	1.317	27.761	37.001	45.828	3.126	301.9	-0.18	0.013	0.85	0.346	3161.3
3400	1.555	34.675	3.34	1.297	27.764	37.005	45.833	3.216	332.1	-0.07	0.004	0.31	0.210	3357.2
3600	1.562	34.676	3.37	1.284	27.765	37.008	45.836	3.307	364.5	-0.05	0.005	0.27	0.194	3552.9
3800	1.579	34.676	3.38	1.279	27.766	37.009	45.838	3.399	399.3	-0.01	0.002	0.09	0.110	3748.5
4000	1.598	34.677	3.39	1.277	27.767	37.009	45.838	3.493	436.6	-0.01	0.000	0.04	0.079	3943.9
4200	1.618	34.677	3.41	1.274	27.767	37.010	45.839	3.588	476.5	-0.01	0.001	0.07	0.101	4139.2
4400	1.641	34.677	3.42	1.273	27.767	37.010	45.839	3.686	519.2	0.00	0.001	0.02	0.051	4334.3
4585	1.663	34.677	3.41	1.273	27.767	37.010	45.839	3.777	561.2	0.00	0.001	0.02	0.000	4514.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
23	22.7	28.829	28.823	21.311	29.539	37.417	33.915	33.917	4.78	1.81	0.13	0.10	0.00			22	222222255
22	46.9	28.520	28.508	21.426	29.661	37.546	33.930	33.929	4.77	1.81	0.07	0.00	0.00			46	222222255
21	65.5	28.400	28.385	21.593	29.829	37.715	34.098	34.096	4.81	1.81	0.08	0.00	0.00			65	222222255
20	91.6	27.132	27.111	22.352	30.613	38.523	34.558	34.549	4.70	2.01	0.15	-0.09	0.19			91	222222255
19	120.4	24.920	24.894	23.231	31.545	39.504	34.810	34.815	4.43	2.52	0.26	0.72	0.08			119	222222255
18	140.7	21.075	21.048	24.425	32.845	40.902	34.925	34.923	3.94	4.13	0.45	3.89	0.01			139	222222255
17	160.7	17.425	17.399	25.261	33.796	41.962	34.792	34.768	3.62	8.76	0.79	9.59	0.01			159	222222255
16	193.3	15.222	15.193	25.654	34.268	42.507	34.642	34.643	3.03	15.31	1.20	15.79	0.01			192	222222255
15	233.4	10.997	10.968	26.415	35.192	43.585	34.529	34.512	2.13	29.52	1.94	26.90	0.00			231	222222255
14	295.1	9.490	9.457	26.680	35.521	43.973	34.535	34.530	1.60	38.78	2.33	32.60	0.00			293	222222255
13	397.5	8.254	8.213	26.863	35.758	44.262	34.517	34.514	1.62	46.54	2.48	35.10	0.00			394	222222255
12	487.7	7.569	7.521	26.981	35.908	44.441	34.538	34.533	1.64	50.47	2.57	36.20	0.00			484	222222255
11	739.5	6.089	6.022	27.174	36.171	44.770	34.524	34.519	1.80	67.40	2.73	38.30	0.00			734	222222255
10	969.3	4.659	4.581	27.367	36.435	45.100	34.551	34.545	1.95	92.38	2.83	39.90	0.00			961	222222255
9	1496.9	2.873	2.767	27.587	36.749	45.502	34.600	34.598	2.29	128.65	2.85	40.10	0.00			1483	222222255
8	2001.2	2.191	2.052	27.674	36.874	45.663	34.633	34.633	2.64	141.24	2.79	39.70	0.00			1980	222222255
7	2256.8	1.950	1.792	27.705	36.919	45.721	34.647	34.646	2.81	144.96	2.75	39.30	0.00			2232	222222255
6	2507.1	1.821	1.644	27.722	36.945	45.755	34.654	34.654	2.95	146.38	2.71	38.90	0.00			2478	222222255
5	2744.5	1.681	1.485	27.746	36.977	45.795	34.670		3.10	147.08	2.68	38.40	0.00			2711	252222255
4	2994.3	1.610	1.392	27.752	36.988	45.811	34.668	34.668	3.21	146.78	2.63	38.10	0.00			2956	222222255
3	3498.7	1.562	1.295	27.765	37.006	45.834	34.676	34.674	3.37	145.67	2.60	37.60	0.00			3450	222222255
2	4003.2	1.599	1.277	27.766	37.008	45.837	34.676	34.676	3.40	145.67	2.59	37.60	0.00			3943	222222255
1	4585.4	1.663	1.273	27.767	37.010	45.839	34.677	34.676	3.40	145.87	2.61	37.60	0.00			4511	222222255

CRUISE: MW 893 STA: 22 DATE (D/M/Y): 14- 2-89 TIME: 0432 LAT: 9 0.11 N LONG: 134 59.87 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22819E-04 1/S SOUND SPEED= 1497.2 M/S Depth= 3648 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.903	33.946	5.29	28.903	21.308	29.534	37.410	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.903	33.946	5.29	28.903	21.308	29.534	37.410	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.917	33.952	5.09	28.912	21.309	29.535	37.411	0.130	0.1	-2.60	0.739	31.63	2.110	20.0
30	28.820	33.981	5.12	28.813	21.364	29.591	37.469	0.194	0.3	-18.21	4.803	215.29	5.504	30.0
40	28.708	34.007	5.09	28.698	21.421	29.651	37.531	0.258	0.5	-4.34	1.097	50.43	2.664	40.0
50	28.678	34.019	5.08	28.666	21.441	29.671	37.552	0.322	0.8	-1.48	1.004	27.74	1.976	50.0
100	25.790	34.736	4.64	25.768	22.908	31.201	39.140	0.628	3.1	-132.47	19.623	1253.23	13.280	100.1
125	23.531	34.879	4.32	23.505	23.697	32.047	40.040	0.740	4.4	-70.73	0.725	383.74	7.348	125.0
150	20.597	34.905	3.87	20.569	24.539	32.973	41.045	0.837	5.8	-200.09	-8.885	1033.33	12.059	150.0
200	14.353	34.604	2.65	14.323	25.813	34.459	42.728	0.970	8.1	-81.20	-2.949	343.25	6.950	199.8
250	11.811	34.524	2.24	11.779	26.262	35.006	43.368	1.070	10.4	-42.93	-0.814	171.11	4.907	249.5
300	10.680	34.525	1.88	10.644	26.470	35.260	43.665	1.154	12.8	-23.78	0.055	96.62	3.687	299.3
350	8.963	34.536	1.53	8.925	26.767	35.631	44.104	1.228	15.2	-32.08	-0.303	114.77	4.019	349.0
400	8.390	34.533	1.64	8.348	26.855	35.744	44.242	1.293	17.7	-8.07	-0.216	25.23	1.884	398.7
450	7.975	34.518	1.69	7.929	26.906	35.814	44.330	1.355	20.4	-7.34	0.033	26.48	1.930	448.4
500	7.500	34.520	1.82	7.450	26.977	35.907	44.443	1.414	23.3	-6.67	0.314	28.58	2.005	498.0
600	7.003	34.536	1.67	6.946	27.061	36.014	44.572	1.527	29.6	-5.75	0.020	19.76	1.668	597.3
700	6.294	34.523	1.91	6.230	27.146	36.134	44.723	1.632	36.5	-6.97	-0.072	21.50	1.739	696.6
800	5.719	34.531	1.80	5.649	27.226	36.242	44.858	1.730	44.0	-5.65	-0.008	17.76	1.581	795.7
900	5.212	34.533	1.94	5.136	27.289	36.330	44.969	1.822	52.0	-4.88	0.092	16.64	1.530	894.9
1000	4.676	34.542	1.99	4.595	27.358	36.426	45.091	1.907	60.2	-4.83	0.082	16.02	1.501	993.9
1200	3.781	34.567	2.10	3.691	27.473	36.587	45.294	2.059	77.2	-3.89	0.108	13.17	1.361	1191.9
1400	3.126	34.587	2.24	3.025	27.554	36.702	45.442	2.192	94.8	-2.29	0.082	8.02	1.063	1389.7
1600	2.731	34.604	2.36	2.618	27.603	36.773	45.534	2.313	113.3	-2.03	0.088	7.39	1.019	1587.3
1800	2.375	34.622	2.51	2.250	27.648	36.838	45.617	2.424	132.6	-1.35	0.060	5.02	0.840	1784.7
2000	2.136	34.634	2.65	1.998	27.679	36.882	45.674	2.529	153.0	-1.30	0.063	4.96	0.835	1981.9
2200	1.973	34.643	2.76	1.820	27.700	36.913	45.714	2.629	174.3	-0.71	0.038	2.82	0.630	2178.9
2400	1.871	34.649	2.85	1.702	27.713	36.933	45.740	2.726	197.0	-0.82	0.044	3.28	0.680	2375.7
2600	1.722	34.658	3.01	1.538	27.733	36.962	45.777	2.819	220.8	-0.43	0.026	1.82	0.506	2572.4
2800	1.677	34.662	3.10	1.475	27.741	36.973	45.791	2.911	246.1	-0.29	0.017	1.26	0.422	2768.8
3000	1.630	34.666	3.20	1.411	27.749	36.984	45.806	3.003	273.2	-0.19	0.012	0.86	0.348	2965.1
3200	1.587	34.671	3.30	1.349	27.757	36.996	45.821	3.094	302.0	-0.38	0.027	1.80	0.503	3161.2
3400	1.563	34.674	3.38	1.306	27.762	37.003	45.831	3.184	332.4	-0.21	0.013	0.97	0.370	3357.1
3600	1.559	34.675	3.43	1.281	27.765	37.008	45.837	3.275	364.8	-0.05	0.004	0.97	0.000	3552.9
3617	1.560	34.676	3.43	1.281	27.765	37.008	45.837	3.283	367.7	-0.05	0.003	0.97	0.000	3569.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	3.3	28.899	28.898	21.311	29.538	37.414	33.949	33.949	4.64	1.71	0.08	0.11	-0.01			3	222222255
23	76.2	26.952	26.935	22.437	30.702	38.615	34.597	34.391	4.52	2.22	0.14	0.11	-0.01			75	222222255
22	99.3	24.795	24.774	23.288	31.605	39.566	34.836	34.796	4.35	2.42	0.24	0.42	0.08			98	222222255
21	122.6	22.917	22.892	23.889	32.256	40.265	34.898	34.894	4.07	3.73	0.37	2.24	0.16			121	222222255
20	198.7	13.622	13.593	25.990	34.663	42.957	34.635	34.606	2.72	19.34	1.41	19.01	-0.01			197	222222255
19	297.7	9.912	9.878	26.615	35.437	43.872	34.541	34.517	1.77	34.96	2.17	30.31	-0.01			295	222222255
18	396.7	8.143	8.102	26.883	35.783	44.291	34.521	34.515	1.62	47.35	2.49	35.11	-0.01			394	222222255
17	496.7	7.146	7.098	27.031	35.977	44.528	34.525	34.523	1.75	54.30	2.59	36.31	-0.01			493	222222255
16	745.8	5.843	5.777	27.209	36.218	44.828	34.529	34.526	1.74	71.02	2.76	38.70	0.00			740	222222255
15	998.4	4.644	4.564	27.358	36.427	45.093	34.537	34.542	1.93	92.88	2.82	39.50	0.00			990	222222255
14	1195.9	3.867	3.776	27.462	36.571	45.275	34.564	34.563	2.04	108.80	2.86	40.10	0.00			1185	222222255
13	1395.9	3.086	2.986	27.560	36.710	45.452	34.590	34.589	2.19	124.51	2.85	40.20	0.00			1383	222222255
12	1596.1	2.712	2.599	27.606	36.777	45.538	34.605	34.605	2.35	132.07	2.85	40.20	0.00			1581	222222255
11	1797.6	2.364	2.239	27.650	36.840	45.620	34.623	34.622	2.50	138.72	2.80	39.70	0.00			1779	222222255
10	1996.5	2.115	1.977	27.683	36.887	45.680	34.637	34.636	2.67	142.85	2.78	39.60	0.00			1975	222222255
9	2196.2	1.952	1.800	27.703	36.917	45.719	34.646	34.645	2.79	145.17	2.76	39.30	0.00			2172	222222255
8	2396.5	1.816	1.648	27.721	36.943	45.753	34.653	34.652	2.94	145.37	2.73	38.90	0.00			2369	222222255
7	2590.5	1.730	1.547	27.733	36.961	45.776	34.659	34.658	3.02	147.48	2.69	38.60	0.00			2560	222222255
6	2797.6	1.679	1.478	27.741	36.973	45.792	34.663	34.662	3.11	147.48	2.68	38.40	0.00			2763	222222255
5	2998.2	1.631	1.412	27.749	36.985	45.807	34.667	34.667	3.18	147.28	2.65	38.20	0.00			2960	222222255
4	3202.2	1.589	1.351	27.757	36.995	45.820	34.671	34.669	3.29	146.68	2.63	37.80	0.00			3160	222222255
3	3403.5	1.562	1.304	27.763	37.004	45.832	34.675	34.673	3.34	146.48	2.61	37.70	0.00			3357	222222255
2	3610.6	1.560	1.281	27.765	37.008	45.837	34.675	34.674	3.41	146.27	2.59	37.60	0.00			3559	222222255
1	3610.6	1.560	1.281	27.765	37.008	45.837	34.675	34.676	3.38	145.97	2.59	37.60	0.00			3559	222222255

CRUISE: MW 893 STA: 23 DATE (D/M/Y): 14- 2-89 TIME: 0937 LAT: 8 59.72 N LONG: 135 19.88 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22803E-04 1/S SOUND SPEED= 1499.2 M/S Depth= 3977 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.769	33.975	4.71	28.769	21.374	29.602	37.481	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.769	33.975	4.71	28.768	21.374	29.603	37.481	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.796	33.975	4.95	28.791	21.367	29.595	37.473	0.128	0.1	0.54	0.213	-0.41	-0.241	20.0
30	28.799	33.977	4.96	28.792	21.367	29.596	37.474	0.193	0.3	0.06	0.035	0.18	0.159	30.0
40	28.801	33.977	5.03	28.792	21.368	29.596	37.474	0.257	0.5	-0.19	-0.008	1.29	0.426	40.0
50	28.772	33.977	4.92	28.760	21.378	29.607	37.486	0.321	0.8	-18.60	1.729	166.45	4.841	50.0
100	27.101	34.557	4.62	27.078	22.362	30.624	38.534	0.630	3.2	-82.01	15.151	835.84	10.849	100.1
125	24.796	34.758	4.22	24.769	23.230	31.548	39.511	0.757	4.6	-144.15	6.416	984.36	11.774	125.0
150	19.929	34.808	3.48	19.901	24.642	33.098	41.189	0.856	6.0	-136.30	-4.486	723.62	10.095	150.0
200	14.428	34.616	2.59	14.398	25.807	34.449	42.716	0.994	8.4	-70.51	-2.624	301.04	6.511	199.8
250	11.408	34.518	2.08	11.377	26.332	35.093	43.470	1.094	10.7	-57.72	-0.647	233.91	5.739	249.6
300	9.577	34.533	1.53	9.543	26.665	35.501	43.950	1.173	12.9	-20.11	0.275	81.72	3.392	299.3
350	8.688	34.526	1.55	8.651	26.803	35.678	44.164	1.241	15.2	-14.42	-0.347	46.45	2.557	349.0
400	8.194	34.531	1.58	8.153	26.883	35.781	44.287	1.304	17.6	-2.13	1.031	25.57	1.897	398.7
450	7.671	34.506	1.74	7.626	26.941	35.864	44.392	1.364	20.2	-8.69	-0.169	27.45	1.966	448.4
500	7.523	34.541	1.67	7.473	26.991	35.920	44.454	1.423	23.0	-8.52	0.141	31.75	2.114	498.0
600	6.913	34.527	1.83	6.856	27.066	36.024	44.585	1.533	29.2	-3.93	-0.036	12.44	1.324	597.3
700	6.512	34.527	1.93	6.448	27.121	36.098	44.678	1.639	36.2	-5.32	-0.101	15.55	1.480	696.6
800	5.920	34.523	1.89	5.848	27.195	36.201	44.807	1.740	43.9	-5.15	0.130	18.68	1.622	795.7
900	5.305	34.533	1.87	5.228	27.278	36.315	44.950	1.833	52.0	-5.61	0.161	20.33	1.692	894.9
1000	4.678	34.545	1.94	4.597	27.360	36.428	45.092	1.919	60.4	-7.02	0.110	23.37	1.814	993.9
1200	3.807	34.567	2.10	3.716	27.471	36.583	45.290	2.072	77.5	-3.60	0.100	12.31	1.317	1191.9
1400	3.240	34.584	2.22	3.138	27.540	36.683	45.418	2.209	95.6	-2.67	0.096	9.37	1.149	1389.7
1600	2.794	34.603	2.35	2.680	27.597	36.763	45.521	2.331	114.3	-1.83	0.079	6.67	0.969	1587.3
1800	2.438	34.620	2.49	2.312	27.642	36.828	45.604	2.445	134.0	-1.64	0.078	6.19	0.934	1784.7
2000	2.222	34.631	2.60	2.082	27.670	36.868	45.656	2.552	154.7	-1.03	0.053	3.97	0.748	1981.9
2200	2.028	34.641	2.73	1.874	27.694	36.904	45.702	2.654	176.5	-1.03	0.044	3.89	0.740	2178.9
2400	1.864	34.650	2.88	1.695	27.715	36.935	45.742	2.751	199.4	-0.65	0.035	2.65	0.611	2375.7
2600	1.766	34.657	2.99	1.581	27.729	36.955	45.768	2.846	223.6	-0.65	0.038	2.76	0.623	2572.4
2800	1.675	34.663	3.10	1.474	27.741	36.973	45.792	2.939	249.1	-0.56	0.032	2.39	0.580	2768.8
3000	1.629	34.667	3.20	1.409	27.750	36.985	45.807	3.030	276.0	-0.34	0.023	1.55	0.468	2965.1
3200	1.587	34.671	3.28	1.349	27.757	36.996	45.821	3.120	304.6	-0.18	0.015	0.88	0.352	3161.2
3400	1.567	34.674	3.38	1.309	27.762	37.003	45.830	3.211	335.0	-0.14	0.009	0.68	0.309	3357.2
3600	1.565	34.676	3.44	1.286	27.765	37.008	45.836	3.302	367.5	-0.12	0.011	0.63	0.298	3552.9
3800	1.571	34.677	3.46	1.272	27.767	37.010	45.840	3.394	402.2	-0.04	0.004	0.23	0.181	3748.5
3965	1.583	34.677	3.48	1.265	27.768	37.011	45.841	3.470	432.7	-0.03	0.000	0.23	0.000	3909.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	11.0	28.797	28.794	21.414	29.642	37.519	34.040	34.040	5.01	1.71	0.01	0.10	0.00			10	222222255
23	49.8	28.799	28.787	21.415	29.642	37.520	34.037	34.037	5.00	1.71	0.01	0.10	0.00			49	222222255
22	100.8	28.346	28.323	21.641	29.878	37.765	34.135	34.133	5.21	1.91	0.12	0.10	0.00			100	222222255
21	149.9	19.267	19.240	24.800	33.276	41.387	34.790	34.789	3.40	8.46	0.75	9.00	0.00			149	222222255
20	200.2	14.019	13.991	25.880	34.538	42.819	34.599	34.600	2.67	20.05	1.43	19.70	0.00	0.999	0.502	198	222222222
19	249.1	11.323	11.292	26.345	35.109	43.489	34.514	34.513	2.20	29.01	1.88	25.90	0.00			247	222222255
18	299.8	9.508	9.474	26.671	35.511	43.962	34.527	34.528	1.58	38.68	2.29	32.40	0.00	0.241	0.106	297	222222222
17	349.7	8.955	8.917	26.764	35.628	44.102	34.530	34.526	1.52	41.71	2.37	33.50	0.00			347	222222255
16	398.4	8.308	8.267	26.846	35.739	44.241	34.506	34.505	1.61	46.64	2.43	34.50	0.00		0.060	395	222222252
15	499.2	7.601	7.552	26.965	35.890	44.422	34.522	34.521	1.68	50.47	2.50	35.50	0.00			495	222222255
14	596.9	7.041	6.983	27.050	36.002	44.558	34.529	34.526	1.76	55.61	2.57	36.70	0.00	0.072	0.037	592	222222222
13	797.5	5.917	5.846	27.195	36.201	44.808	34.522	34.521	1.80	69.81	2.72	38.40	0.00			791	222222255
12	996.7	4.704	4.623	27.353	36.419	45.083	34.540	34.542	1.90	91.27	2.80	39.70	0.00	0.030		988	222222225
11	1243.3	3.764	3.670	27.476	36.590	45.299	34.567	34.567	2.07	110.31	2.82	39.90	0.00			1232	222222255
10	1493.2	3.112	3.003	27.558	36.707	45.449	34.590	34.590	2.26	123.51	2.83	39.80	0.00	0.018	0.017	1479	222222222
9	1748.1	2.607	2.483	27.621	36.798	45.566	34.612	34.612	2.40	133.88	2.80	39.90	0.00			1731	222222255
8	1994.1	2.216	2.077	27.670	36.869	45.657	34.631	34.632	2.60		2.75	39.40	0.00	0.011	-0.006	1973	222522222
7	2245.5	1.952	1.795	27.704	36.918	45.721	34.646	34.647	2.81	143.45	2.71	38.90	0.00		.	2220	222222255
6	2495.3	1.794	1.618	27.725	36.949	45.760	34.656	34.655	2.98	146.78	2.69	38.70	0.00	-0.001	-0.003	2466	222222222
5	2999.4	1.614	1.395	27.752	36.988	45.811	34.669	34.668	3.22	146.68	2.60	37.90	0.00			2961	222222255
4	3246.4	1.576	1.334	27.759	36.998	45.825	34.672	34.672	3.31	146.07	2.60	37.70	0.00	-0.019	-0.006	3203	222222222
3	3502.6	1.561	1.293	27.764	37.006	45.834	34.675	34.678	3.38	145.27	2.57	37.50	0.00			3454	222222255
2	3904.4	1.577	1.267	27.768	37.011	45.840	34.677	34.680	3.44	145.37	2.56	37.40	0.00			3847	222222255
1	3959.2	1.582	1.265	27.767	37.011	45.840	34.677	34.679	3.41	144.86	2.55	37.40	0.00			3900	222222255

CRUISE: MW 893 STA: 24 DATE (D/M/Y): 14- 2-89 TIME: 1515 LAT: 9 0.03 N LONG: 135 39.83 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22816E-04 1/S SOUND SPEED= 1500.7 M/S Depth= 4217 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.668	34.045	4.72	28.668	21.459	29.690	37.570	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.668	34.045	4.72	28.668	21.459	29.690	37.570	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.729	34.032	4.93	28.724	21.431	29.661	37.540	0.127	0.1	0.54	0.296	0.97	0.370	20.0
30	28.722	34.023	4.98	28.715	21.427	29.657	37.536	0.191	0.3	0.96	1.999	26.40	1.927	30.0
40	28.735	34.081	5.01	28.726	21.468	29.697	37.575	0.255	0.5	-4.64	8.350	174.21	4.952	40.0
50	28.667	34.130	4.99	28.655	21.528	29.758	37.637	0.318	0.8	-5.50	1.586	67.23	3.076	50.0
100	25.884	34.663	4.39	25.862	22.824	31.115	39.053	0.607	3.0	-95.85	8.599	804.04	10.638	100.0
125	23.305	34.842	4.14	23.280	23.734	32.091	40.090	0.722	4.3	-108.20	1.623	660.28	9.640	125.0
150	19.998	34.828	3.73	19.970	24.640	33.093	41.182	0.815	5.6	-121.50	-3.923	620.14	9.342	149.9
200	14.772	34.614	2.82	14.742	25.731	34.361	42.616	0.951	8.0	-52.16	-2.079	223.40	5.607	199.7
250	12.321	34.536	2.29	12.287	26.174	34.898	43.241	1.057	10.4	-64.29	-1.409	260.09	6.050	249.5
300	10.456	34.524	1.78	10.420	26.508	35.308	43.722	1.143	12.8	-25.43	0.641	113.46	3.996	299.3
350	9.287	34.561	1.46	9.248	26.734	35.584	44.044	1.216	15.3	-11.99	0.026	45.80	2.539	349.0
400	8.590	34.557	1.50	8.548	26.843	35.723	44.212	1.282	17.8	-11.83	-0.028	42.61	2.449	398.7
450	8.003	34.537	1.64	7.957	26.917	35.824	44.338	1.344	20.5	-8.57	-0.084	28.99	2.020	448.4
500	7.744	34.554	1.74	7.694	26.969	35.887	44.412	1.403	23.3	-6.57	0.085	24.44	1.855	498.0
600	7.042	34.532	1.84	6.985	27.053	36.004	44.560	1.516	29.7	-6.43	-0.185	18.37	1.608	597.3
700	6.273	34.519	1.86	6.210	27.146	36.134	44.725	1.622	36.7	-7.54	0.000	24.61	1.861	696.5
800	5.713	34.526	1.87	5.643	27.223	36.239	44.855	1.719	44.1	-5.08	0.079	17.26	1.558	795.7
900	5.121	34.535	1.92	5.046	27.301	36.347	44.990	1.810	52.0	-5.12	0.089	17.50	1.569	894.9
1000	4.710	34.544	1.92	4.629	27.356	36.422	45.085	1.894	60.2	-3.93	0.060	12.93	1.349	993.9
1200	3.855	34.566	2.07	3.764	27.465	36.575	45.279	2.050	77.5	-4.12	0.123	14.36	1.422	1191.9
1400	3.243	34.584	2.20	3.140	27.540	36.682	45.417	2.186	95.6	-3.04	0.096	10.45	1.213	1389.7
1600	2.752	34.603	2.33	2.638	27.601	36.769	45.529	2.309	114.4	-1.82	0.088	6.80	0.978	1587.3
1800	2.438	34.619	2.46	2.312	27.641	36.827	45.603	2.422	134.0	-1.36	0.058	4.98	0.837	1784.7
2000	2.209	34.630	2.56	2.070	27.669	36.869	45.657	2.530	154.8	-1.13	0.057	4.36	0.783	1981.9
2200	2.040	34.640	2.71	1.886	27.692	36.901	45.699	2.631	176.6	-0.95	0.055	3.85	0.736	2178.9
2400	1.862	34.650	2.86	1.693	27.715	36.935	45.742	2.729	199.5	-0.62	0.032	2.49	0.591	2375.7
2600	1.746	34.657	2.98	1.562	27.731	36.958	45.772	2.824	223.6	-0.80	0.039	3.23	0.675	2572.4
2800	1.637	34.664	3.12	1.437	27.745	36.979	45.800	2.915	248.8	-0.30	0.017	1.28	0.424	2768.8
3000	1.590	34.669	3.22	1.371	27.753	36.991	45.815	3.006	275.5	-0.42	0.030	1.93	0.522	2965.1
3200	1.559	34.672	3.31	1.321	27.760	37.000	45.827	3.095	303.8	-0.20	0.014	0.93	0.362	3161.2
3400	1.546	34.675	3.38	1.289	27.764	37.006	45.835	3.185	334.0	-0.12	0.009	0.61	0.293	3357.1
3600	1.553	34.676	3.42	1.275	27.766	37.009	45.838	3.275	366.3	-0.06	0.006	0.30	0.207	3552.9
3800	1.567	34.677	3.45	1.268	27.767	37.010	45.840	3.367	400.9	-0.03	0.003	0.15	0.143	3748.5
4000	1.586	34.677	3.48	1.265	27.768	37.011	45.841	3.460	438.1	-0.02	0.001	0.07	0.102	3943.9
4200	1.607	34.677	3.50	1.263	27.768	37.012	45.841	3.555	477.8	-0.01	0.001	0.07	0.000	4139.1
4223	1.609	34.678	3.51	1.262	27.769	37.012	45.842	3.566	482.6	-0.01	0.002	0.07	0.000	4161.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.1	28.724	28.722	21.426	29.656	37.535	34.025	34.022	4.88	1.41	0.10	-0.01	0.01	1.733	0.906	7	222222222
23	52.7	28.720	28.707	21.434	29.663	37.543	34.028	34.030	4.64	1.61	0.47	0.00	0.00	1.823	0.948	52	222222222
22	99.5	25.667	25.645	22.909	31.205	39.147	34.686	34.668	4.29	2.62	0.31	0.67	0.23	1.797	0.866	98	222222222
21	149.9	19.588	19.561	24.735	33.201	41.302	34.813	34.816	3.65	6.55	0.68	7.07	0.03	1.647	0.857	149	222222222
20	199.8	13.783	13.754	25.925	34.502	42.882	34.594	34.579	2.81	19.44	1.42	19.30	0.00	1.044	0.544	198	222222222
19	249.4	11.029	10.998	26.402	35.178	43.569	34.519	34.516	2.10		1.96	27.30	0.00		0.331	247	222522252
18	299.2	10.143	10.108	26.576	35.389	43.814	34.542	34.536	1.67	35.16	2.21	31.00	0.00	0.344	0.165	297	222222222
17	348.9	8.829	8.792	26.788	35.657	44.136	34.535	34.529	1.52	42.61	2.42	34.20	0.00		0.070	346	222222252
16	399.2	8.198	8.157	26.885	35.783	44.288	34.535	34.528	1.58	46.64	2.48	35.30	0.00	0.134	0.086	396	222222222
15	502.4	7.481	7.432	27.000	35.931	44.467	34.545	34.542	1.86	50.57	2.56	36.40	0.00		0.046	498	222222252
14	606.2	6.826	6.768	27.077	36.039	44.605	34.526	34.526	1.86	55.71	2.59	36.70	0.00	0.061		601	222222225
13	796.7	5.717	5.647	27.225	36.241	44.856	34.529	34.528	1.74	73.74	2.79	39.39	0.01	0.004	0.020	790	222222222
12	997.6	4.662	4.582	27.368	36.436	45.101	34.553	34.544	1.90	92.48	2.85	40.19	0.01	-0.008	0.004	989	222222222
11	1259.6	3.651	3.557	27.490	36.610	45.324	34.571	34.569	2.10	112.83	2.85	40.19	0.01	0.037	0.023	1248	222222222
10	1505.2	2.917	2.809	27.579	36.739	45.490	34.595	34.593	2.26	128.44	2.86	40.29	0.01	0.008		1491	222222225
9	1747.3	2.479	2.357	27.636	36.820	45.593	34.617	34.618	2.48	136.91	2.83	40.09	0.01	0.023	-0.006	1730	222222222
8	1996.4	2.227	2.087	27.668	36.867	45.654	34.630	34.631	2.63	141.54	2.79	39.79	0.01	-0.013	-0.003	1975	222222222
7	2248.5	1.988	1.831	27.700	36.912	45.713	34.645	34.645	2.80	143.96	2.74	39.09	0.01	-0.023	-0.006	2223	222222222
6	2498.2	1.825	1.648	27.721	36.943	45.753	34.653	34.655	2.95	147.38	2.73	39.09	0.01	-0.007	0.006	2469	222222222
5	2748.0	1.660	1.464	27.744	36.976	45.795	34.665	34.663	3.11	148.29	2.64	38.39	0.01			2714	222222255
4	3000.1	1.594	1.375	27.754	36.991	45.815	34.670	34.669	3.25	147.38	2.64	38.09	0.01	0.010	-0.006	2962	222222222
3	3249.2	1.553	1.311	27.762	37.003	45.830	34.674	34.674	3.36	147.68	2.61	37.89	0.01	0.006	-0.006	3206	222222222
2	3749.2	1.564	1.270	27.767	37.010	45.839	34.676	34.677	3.43	145.97	2.59	37.59	0.01	0.001	-0.009	3695	222222222
1	4222.5	1.609	1.263	27.768	37.012	45.841	34.678	34.678	3.47	146.27	2.61	37.77	0.03	-0.017	-0.006	4157	222222222

CRUISE: MW 893 STA: 25 DATE (D/M/Y): 14- 2-89 TIME: 2250 LAT: 9 0.07'N LONG: 136 14.93 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22818E-04 1/S SOUND SPEED= 1495.6 M/S Depth= 3360 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.698	34.019	4.88	28.698	21.430	29.660	37.540	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.698	34.019	4.88	28.697	21.430	29.660	37.540	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.705	34.016	4.69	28.700	21.427	29.657	37.537	0.127	0.1	-0.34	0.023	2.88	0.637	20.0
30	28.708	34.016	4.91	28.701	21.427	29.657	37.537	0.191	0.3	1.19	-0.161	-11.50	-1.272	30.0
40	28.688	34.019	4.92	28.678	21.437	29.667	37.548	0.255	0.5	-14.74	2.060	143.34	4.491	40.0
50	28.510	34.049	4.91	28.499	21.519	29.753	37.637	0.318	0.8	-11.97	3.808	151.92	4.624	50.0
100	24.557	34.748	4.09	24.536	23.293	31.617	39.585	0.603	3.0	-137.22	10.110	1096.34	12.421	100.0
125	21.748	34.884	3.93	21.724	24.208	32.608	40.648	0.707	4.1	-82.95	1.188	536.64	8.690	125.0
150	19.221	34.805	3.58	19.194	24.823	33.301	41.413	0.794	5.4	-123.68	-4.951	630.71	9.421	149.9
200	14.520	34.588	3.05	14.491	25.765	34.405	42.669	0.926	7.7	-66.10	-2.962	271.51	6.181	199.7
250	11.851	34.542	2.20	11.819	26.268	35.010	43.370	1.029	10.0	-38.22	-0.181	164.99	4.819	249.5
300	11.052	34.534	1.99	11.015	26.410	35.185	43.576	1.116	12.5	-27.41	0.036	113.55	3.997	299.2
350	9.696	34.548	1.53	9.656	26.657	35.489	43.933	1.193	15.0	-24.83	0.503	104.79	3.840	349.0
400	8.633	34.563	1.47	8.591	26.841	35.719	44.206	1.261	17.6	-11.43	-0.022	41.68	2.422	398.7
450	8.058	34.554	1.61	8.012	26.922	35.826	44.337	1.323	20.3	-14.22	-0.257	46.05	2.546	448.3
500	7.527	34.544	1.71	7.478	26.993	35.921	44.455	1.382	23.2	-4.52	-0.052	14.78	1.442	498.0
600	7.098	34.534	1.76	7.040	27.046	35.995	44.549	1.495	29.5	-7.17	-0.106	22.47	1.778	597.3
700	6.309	34.529	1.77	6.245	27.149	36.136	44.724	1.601	36.6	-7.68	-0.028	24.66	1.863	696.5
800	5.508	34.532	1.83	5.439	27.252	36.278	44.903	1.699	44.0	-8.79	0.078	28.91	2.017	795.7
900	4.883	34.540	1.90	4.809	27.333	36.390	45.044	1.787	51.6	-4.32	0.072	14.37	1.422	894.8
1000	4.575	34.545	1.94	4.495	27.371	36.444	45.113	1.869	59.6	-3.09	0.074	10.52	1.217	993.9
1200	3.877	34.565	2.06	3.786	27.462	36.571	45.274	2.022	76.7	-3.77	0.112	13.07	1.356	1191.9
1400	3.244	34.585	2.19	3.141	27.541	36.683	45.417	2.159	94.8	-2.49	0.083	8.72	1.108	1389.7
1600	2.788	34.602	2.33	2.675	27.597	36.764	45.521	2.283	113.9	-2.76	0.116	10.07	1.191	1587.3
1800	2.441	34.619	2.47	2.315	27.641	36.827	45.603	2.396	133.5	-1.50	0.070	5.64	0.891	1784.6
2000	2.173	34.632	2.60	2.034	27.674	36.875	45.665	2.502	153.9	-1.08	0.052	4.15	0.764	1981.8
2200	2.029	34.640	2.72	1.875	27.693	36.903	45.701	2.603	175.6	-0.82	0.044	3.24	0.675	2178.9
2400	1.885	34.649	2.85	1.716	27.713	36.931	45.737	2.701	198.6	-0.68	0.035	2.72	0.619	2375.7
2600	1.777	34.656	2.97	1.592	27.727	36.953	45.765	2.797	222.9	-0.64	0.033	2.64	0.610	2572.3
2800	1.665	34.663	3.10	1.463	27.742	36.975	45.794	2.889	248.5	-0.70	0.039	2.98	0.647	2768.8
3000	1.593	34.669	3.23	1.374	27.754	36.991	45.815	2.980	275.2	-0.30	0.021	1.37	0.439	2965.1
3200	1.574	34.672	3.29	1.336	27.758	36.998	45.824	3.070	303.6	-0.10	0.009	1.37	0.000	3161.2
3261	1.578	34.672	3.30	1.334	27.759	36.999	45.825	3.097	312.7	-0.06	0.008	1.37	0.000	3221.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	20.1	28.626	28.622	21.454	29.686	37.568	34.018	34.017	4.90	1.80	0.01	0.10	0.00			19	222222255
23	51.7	28.601	28.589	21.462	29.695	37.577	34.014	34.014	4.83	1.80	0.01	0.11	-0.01			51	222222255
22	76.3	28.217	28.199	21.713	29.953	37.842	34.177	34.139	4.84	1.98	0.01	0.10	0.00			75	222222255
21	101.7	26.636	26.613	22.520	30.793	38.714	34.571	34.570	4.55	2.51	0.21	0.35	0.05			101	222222255
20	122.1	23.735	23.710	23.592	31.937	39.926	34.819	34.804	4.08	3.58	0.37	2.54	0.16			121	222222255
19	150.4	17.799	17.774	25.149	33.672	41.827	34.766	34.769	3.50	8.55	0.78	9.28	0.02			149	222222255
18	174.7	15.031	15.005	25.678	34.299	42.545	34.619	34.616	3.21							173	222555555
17	199.7	13.916	13.888	25.877	34.540	42.825	34.568	34.563	3.10	16.90	1.28	17.00	0.00			198	222222255
16	249.8	11.912	11.879	26.264	35.004	43.362	34.551	34.548	2.30							248	222555555
15	298.7	10.279	10.244	26.549	35.356	43.776	34.537	34.534	2.10	34.29	2.17	30.30	0.00			296	222222255
13	393.6	8.562	8.520	26.850	35.731	44.221	34.560	34.558	1.42	43.34	2.49	35.09	0.01			391	222222255
12	498.2	7.493	7.444	26.995	35.925	44.461	34.541	34.540	1.66	50.97	2.56	36.29	0.01			494	222222255
11	747.8	6.110	6.043	27.174	36.170	44.768	34.528	34.525	1.71	68.01	2.73	38.29	0.01			742	222222255
10	996.5	4.539	4.460	27.376	36.450	45.121	34.545	34.547	1.92	95.15	2.85	39.79	0.01			988	222222255
9	1247.1	3.531	3.438	27.505	36.631	45.352	34.575	34.576	2.09	115.91	2.84	40.09	0.01			1236	222222255
8	1498.3	3.046	2.937	27.565	36.718	45.463	34.592	34.594	2.26	125.49	2.83	40.09	0.01			1484	222222255
7	1744.3	2.519	2.397	27.631	36.812	45.584	34.615		2.42	135.60	2.79	40.09	0.01			1727	252222255
6	1996.5	2.176	2.037	27.675	36.876	45.666	34.633	34.633	2.64	142.16	2.76	39.39	0.01			1975	222222255
5	2247.2	1.999	1.841	27.698	36.910	45.710	34.643	34.645	2.75	145.00	2.72	39.29	0.01			2222	222222255
4	2497.1	1.852	1.675	27.720	36.941	45.749	34.654	34.652	2.92	145.88	2.71	38.79	0.01	0.001	-0.001	2468	222222222
3	2748.7	1.690	1.493	27.740	36.971	45.789	34.663	34.662	3.08	146.95	2.65	38.29	0.01	-0.009	-0.005	2715	222222222
2	2998.3	1.596	1.378	27.754	36.991	45.815	34.670	34.671	3.27	146.77	2.62	37.79	0.01			2960	222222255
1	3259.2	1.577	1.334	27.759	36.999	45.825	34.673	34.673	3.29	146.76	2.60	37.59	0.01	-0.016	-0.007	3216	222222222

CRUISE: MW 893 STA: 26 DATE (D/M/Y): 15- 2-89 TIME: 0534 LAT: 8 59.67 N LONG: 136 40.08 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22801E-04 1/S SOUND SPEED= 1501.8 M/S Depth= 4385 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.725	33.991	4.32	28.725	21.400	29.630	37.509	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.725	33.991	4.32	28.725	21.400	29.630	37.509	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.726	34.054	4.58	28.721	21.449	29.678	37.557	0.127	0.1	-1.38	-0.114	8.28	1.080	20.0
30	28.723	34.054	4.61	28.716	21.450	29.679	37.558	0.191	0.3	0.00	-0.008	-0.11	-0.124	30.0
40	28.723	34.053	4.60	28.714	21.451	29.680	37.559	0.254	0.5	-1.51	-0.064	10.11	1.193	40.0
50	28.708	34.053	4.60	28.696	21.456	29.686	37.565	0.318	0.8	-1.02	0.188	10.68	1.227	50.0
100	27.586	34.435	4.33	27.562	22.114	30.366	38.266	0.629	3.2	-96.63	16.407	959.40	11.624	100.1
125	24.122	34.775	3.96	24.096	23.444	31.780	39.759	0.757	4.6	-208.79	7.305	1463.76	14.358	125.0
150	18.574	34.769	3.60	18.548	24.960	33.458	41.590	0.846	5.9	-108.57	-3.567	572.00	8.975	150.0
200	14.191	34.568	2.97	14.162	25.820	34.472	42.747	0.978	8.2	-87.69	-4.141	356.78	7.088	199.8
250	11.132	34.505	2.05	11.101	26.372	35.144	43.532	1.076	10.5	-34.65	0.685	157.16	4.705	249.5
300	10.032	34.537	1.58	9.997	26.591	35.409	43.839	1.156	12.7	-23.45	0.643	103.25	3.813	299.3
350	9.048	34.562	1.37	9.010	26.774	35.634	44.104	1.226	15.0	-15.86	0.119	61.29	2.938	349.0
400	8.380	34.564	1.43	8.338	26.881	35.770	44.267	1.290	17.5	-9.76	-0.073	33.95	2.187	398.7
450	8.092	34.557	1.51	8.046	26.920	35.822	44.332	1.351	20.1	-5.10	-0.176	15.06	1.456	448.4
500	7.951	34.552	1.58	7.900	26.937	35.846	44.363	1.411	23.0	-5.28	-0.212	14.94	1.451	498.0
600	7.143	34.534	1.79	7.085	27.040	35.987	44.538	1.526	29.5	-4.30	0.127	16.75	1.536	597.3
700	6.537	34.529	1.78	6.472	27.120	36.095	44.674	1.635	36.7	-6.83	-0.065	21.78	1.751	696.6
800	6.125	34.528	1.83	6.053	27.173	36.169	44.767	1.737	44.5	-6.21	0.016	20.14	1.684	795.7
900	5.371	34.532	1.82	5.294	27.270	36.303	44.935	1.832	52.7	-5.27	0.027	17.10	1.552	894.9
1000	4.805	34.541	1.87	4.723	27.343	36.404	45.063	1.920	61.2	-8.42	0.177	28.97	2.020	993.9
1200	3.914	34.563	1.99	3.822	27.457	36.564	45.266	2.074	78.5	-3.38	0.090	11.55	1.276	1191.9
1400	3.261	34.583	2.12	3.159	27.538	36.679	45.413	2.212	96.7	-3.21	0.112	11.28	1.260	1389.7
1600	2.794	34.602	2.31	2.681	27.596	36.763	45.520	2.335	115.5	-1.70	0.071	6.17	0.932	1587.3
1800	2.447	34.619	2.46	2.321	27.640	36.826	45.601	2.449	135.3	-1.69	0.071	6.21	0.935	1784.7
2000	2.213	34.630	2.59	2.074	27.669	36.868	45.656	2.556	156.0	-1.03	0.054	3.99	0.749	1981.9
2200	2.011	34.641	2.72	1.858	27.695	36.906	45.705	2.657	177.8	-0.90	0.045	3.50	0.702	2178.9
2400	1.864	34.650	2.88	1.695	27.715	36.935	45.742	2.755	200.6	-0.76	0.043	3.10	0.660	2375.7
2600	1.749	34.658	3.01	1.564	27.731	36.958	45.772	2.849	224.7	-0.53	0.029	2.19	0.556	2572.4
2800	1.672	34.663	3.13	1.471	27.742	36.974	45.793	2.942	250.1	-0.45	0.025	1.93	0.521	2768.9
3000	1.611	34.668	3.23	1.392	27.751	36.988	45.811	3.033	277.1	-0.55	0.034	2.45	0.587	2965.1
3200	1.562	34.672	3.32	1.324	27.760	37.000	45.826	3.123	305.5	-0.27	0.018	1.25	0.420	3161.2
3400	1.549	34.674	3.36	1.291	27.764	37.006	45.834	3.212	335.7	-0.17	0.011	0.78	0.332	3357.2
3600	1.546	34.676	3.39	1.268	27.767	37.010	45.840	3.303	367.9	-0.06	0.005	0.29	0.204	3552.9
3800	1.550	34.678	3.42	1.251	27.769	37.013	45.844	3.394	402.4	-0.16	0.012	0.81	0.339	3748.5
4000	1.535	34.680	3.49	1.215	27.774	37.020	45.852	3.486	439.0	-0.16	0.011	0.81	0.337	3943.9
4200	1.539	34.682	3.54	1.197	27.776	37.023	45.857	3.578	477.6	-0.03	0.002	0.15	0.144	4139.2
4385	1.556	34.682	3.55	1.192	27.777	37.024	45.858	3.665	515.7	-0.03	0.004	0.15	0.000	4319.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	72.8	28.597	28.580	21.572	29.803	37.684	34.156	34.162	4.69	2.01	0.13	9.20				72	222222555
23	125.6	24.637	24.611	23.286	31.608	39.574	34.769	34.766	4.01	3.43	0.35	11.40				124	222222555
22	199.7	13.925	13.897	25.877	34.538	42.823	34.569	34.567	2.93	18.64	1.35	27.20				198	222222555
21	397.9	8.605	8.563	26.846	35.725	44.213	34.564	34.560	1.40	43.32	2.46	44.00				395	222222555
20	697.8	6.252	6.188	27.154	36.143	44.735	34.526	34.525	1.78	65.08	2.70	46.90				692	222222555
19	896.4	5.272	5.196	27.280	36.318	44.955	34.531	34.532	1.77	81.40	2.79	48.30				889	222222555
18	1097.0	4.241	4.155	27.415	36.504	45.190	34.553	34.555	1.98		2.84	48.90				1087	222522555
17	1294.7	3.593	3.497	27.494	36.618	45.335	34.569	34.572	2.08	114.84	2.87	49.20				1283	222222555
16	1493.4	2.975	2.868	27.575	36.731	45.480	34.596	34.596	2.30	127.23	2.86	49.20				1479	222222555
15	1695.4	2.623	2.503	27.618	36.794	45.560	34.610	34.610	2.36	133.38	2.83	49.00				1679	222222555
14	1898.0	2.296	2.164	27.660	36.854	45.638	34.627	34.626	2.55	140.13	2.78	48.60				1878	222222555
13	2094.2	2.090	1.944	27.687	36.893	45.687	34.639	34.636	2.66	143.66	2.76	48.40				2072	222222555
12	2295.0	1.972	1.811	27.702	36.916	45.717	34.645	34.644	2.78	145.57	2.76	48.20				2269	222222555
11	2496.1	1.788	1.612	27.726	36.951	45.762	34.657	34.656	2.94	147.18	2.68	47.80				2467	222222555
9	2898.6	1.643	1.433	27.748	36.982	45.803	34.667	34.666	3.13	147.99	2.67	47.20				2862	222222555
8	3100.3	1.575	1.347	27.758	36.996	45.822	34.672	34.671	3.31	146.98	2.63	47.00				3060	222222555
7	3298.8	1.551	1.304	27.763	37.004	45.831	34.674	34.673	3.34	146.78	2.58	46.60				3254	222222555
6	3499.6	1.541	1.274	27.767	37.010	45.839	34.677	34.676	3.40	146.17	2.60	46.50				3451	222222555
5	3700.0	1.551	1.263	27.768	37.011	45.841	34.677	34.676	3.42	145.87	2.56	46.50				3647	222222555
4	3902.2	1.542	1.233	27.772	37.017	45.848	34.679	34.679	3.48	145.47	2.53	46.20		0.003	0.010	3844	222222522
3	4105.8	1.530	1.199	27.777	37.023	45.856	34.682	34.680	3.51	144.26	2.57	45.90		-0.009	0.001	4043	222222522
2	4384.9	1.556	1.193	27.777	37.025	45.858	34.683	34.683	3.56	143.86	2.57	46.00				4315	222222555

CRUISE: MW 893 STA: 27 DATE (D/M/Y): 15- 2-89 TIME: 1019 LAT: 9 1.99 N LONG: 136 38.45 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22898E-04 1/S SOUND SPEED= 1501.8 M/S Depth= 4380 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.683	34.051	4.72	28.683	21.460	29.690	37.569	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.683	34.051	4.72	28.682	21.460	29.690	37.569	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.686	34.055	4.32	28.681	21.463	29.693	37.572	0.127	0.1	-0.08	0.328	6.16	0.929	20.0
30	28.686	34.057	4.43	28.679	21.465	29.695	37.575	0.190	0.3	-0.24	0.212	5.38	0.869	30.0
40	28.687	34.059	4.40	28.677	21.467	29.697	37.577	0.253	0.5	0.08	0.063	0.50	0.264	40.0
50	28.691	34.060	4.48	28.679	21.468	29.698	37.577	0.317	0.8	-0.07	0.240	4.53	0.797	50.0
100	26.484	34.627	3.93	26.461	22.609	30.886	38.809	0.618	3.1	-94.05	11.845	859.90	10.981	100.0
125	23.743	34.798	3.74	23.717	23.574	31.919	39.907	0.738	4.5	-145.35	5.300	1089.26	12.359	125.0
150	20.702	34.830	3.50	20.674	24.454	32.886	40.955	0.835	5.8	-133.15	-2.855	783.62	10.483	150.0
200	16.436	34.683	3.06	16.404	25.412	33.982	42.182	0.984	8.5	-89.57	-4.216	389.80	7.393	199.8
250	12.364	34.500	2.34	12.331	26.138	34.861	43.202	1.094	11.0	-40.91	-1.341	161.43	4.758	249.6
300	10.598	34.521	1.65	10.562	26.481	35.275	43.683	1.185	13.5	-31.23	0.806	143.42	4.485	299.3
350	9.296	34.561	1.30	9.257	26.733	35.582	44.041	1.260	16.0	-26.48	0.568	110.87	3.943	349.0
400	8.489	34.561	1.36	8.446	26.862	35.746	44.239	1.325	18.5	-12.13	-0.141	41.55	2.414	398.7
450	7.974	34.550	1.51	7.928	26.931	35.839	44.354	1.386	21.1	-7.06	-0.251	20.54	1.697	448.4
500	7.364	34.523	1.72	7.315	26.999	35.935	44.477	1.445	24.0	-6.07	-0.054	19.93	1.672	498.1
600	6.808	34.530	1.76	6.752	27.083	36.045	44.611	1.555	30.1	-4.63	-0.050	14.65	1.433	597.3
700	6.371	34.527	1.78	6.307	27.139	36.123	44.709	1.659	37.1	-5.70	-0.012	18.37	1.605	696.6
800	5.742	34.528	1.76	5.672	27.221	36.235	44.850	1.758	44.6	-6.85	0.032	22.27	1.767	795.8
900	5.153	34.533	1.84	5.078	27.296	36.340	44.982	1.848	52.4	-5.44	0.084	18.06	1.591	894.9
1000	4.519	34.547	1.92	4.439	27.379	36.455	45.127	1.932	60.5	-4.34	0.106	15.21	1.461	994.0
1200	3.734	34.568	2.06	3.644	27.479	36.595	45.305	2.084	77.6	-3.73	0.112	12.97	1.349	1191.9
1400	3.202	34.586	2.18	3.100	27.545	36.690	45.426	2.219	95.4	-2.67	0.096	9.41	1.148	1389.7
1600	2.757	34.604	2.34	2.644	27.601	36.770	45.529	2.341	114.1	-1.54	0.066	5.64	0.889	1587.3
1800	2.495	34.617	2.45	2.368	27.635	36.818	45.591	2.456	133.9	-1.76	0.083	6.64	0.965	1784.7
2000	2.224	34.630	2.60	2.084	27.669	36.867	45.655	2.563	154.7	-1.19	0.057	4.56	0.800	1981.9
2200	2.057	34.640	2.72	1.903	27.691	36.899	45.696	2.665	176.6	-0.87	0.044	3.46	0.696	2178.9
2400	1.923	34.647	2.85	1.753	27.708	36.925	45.729	2.764	199.9	-1.03	0.056	4.22	0.769	2375.7
2600	1.757	34.658	3.02	1.572	27.730	36.957	45.770	2.859	224.1	-0.56	0.031	2.37	0.576	2572.4
2800	1.696	34.662	3.12	1.494	27.740	36.970	45.788	2.952	249.6	-0.43	0.023	1.84	0.508	2768.9
3000	1.629	34.667	3.21	1.410	27.749	36.985	45.807	3.044	276.7	-0.39	0.022	1.70	0.488	2965.1
3200	1.580	34.671	3.29	1.343	27.757	36.997	45.822	3.134	305.4	-0.32	0.018	1.42	0.447	3161.3
3400	1.549	34.675	3.38	1.292	27.764	37.006	45.834	3.224	335.7	-0.17	0.011	0.80	0.334	3357.2
3600	1.549	34.676	3.42	1.271	27.766	37.009	45.839	3.315	368.0	-0.09	0.007	0.46	0.255	3552.9
3800	1.543	34.678	3.47	1.244	27.770	37.014	45.845	3.406	402.5	-0.14	0.010	0.71	0.317	3748.5
4000	1.546	34.679	3.50	1.226	27.772	37.018	45.849	3.498	439.1	-0.13	0.009	0.66	0.305	3943.9
4200	1.537	34.681	3.57	1.195	27.776	37.023	45.856	3.591	477.9	-0.08	0.006	0.45	0.250	4139.2
4389	1.556	34.682	3.57	1.192	27.777	37.024	45.858	3.680	516.8	-0.01	0.002	0.45	0.000	4323.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.653	28.654	21.486	29.716	37.596	34.072	34.075	4.94	1.81	0.11	9.00				1	222222555
23	71.7	28.281	28.264	21.719	29.957	37.845	34.214	34.210	4.66	2.12	0.14	9.00				71	222222555
22	122.7	21.379	21.356	24.464	32.872	40.920	35.087	34.848	3.76	4.84	0.49	13.40				121	222222555
21	197.7	14.066	14.037	25.852	34.508	42.788	34.575	34.576	2.94	17.93	1.33	26.70				196	222222555
20	397.3	8.801	8.758	26.814	35.684	44.165	34.562	34.563	1.40	42.11	2.45	43.60				394	222222555
19	697.3	6.307	6.244	27.147	36.134	44.722	34.526	34.526	1.75	64.37	2.71	46.90				692	222222555
18	898.6	5.262	5.186	27.282	36.321	44.958	34.532	34.531	1.84	81.40	2.80	48.10				891	222222555
17	1098.6	4.318	4.231	27.405	36.491	45.173	34.551	34.551	1.93	100.03	2.83	48.90				1089	222222555
16	1296.4	3.592	3.495	27.497	36.621	45.338	34.572	34.573	2.08	114.94	2.85	49.10				1285	222222555
15	1499.5	2.963	2.856	27.576	36.733	45.482	34.596	34.596	2.26	127.74	2.84	48.90				1485	222222555
14	1699.3	2.619	2.499	27.619	36.795	45.562	34.611	34.613	2.40	134.39	2.82	48.40				1682	222222555
13	1900.9	2.296	2.164	27.660	36.854	45.638	34.627	34.627	2.53	140.03	2.79	48.40				1881	222222555
12	2100.7	2.067	1.921	27.689	36.896	45.692	34.639	34.640	2.67	144.16	2.75	48.40				2078	222222555
11	2300.4	1.936	1.775	27.707	36.922	45.725	34.647	34.649	2.79	145.87	2.73	47.60				2274	222222555
10	2501.1	1.784	1.608	27.726	36.950	45.762	34.656	34.658	2.98	147.28	2.70	47.40				2472	222222555
9	2699.4	1.698	1.505	27.739	36.969	45.786	34.662	34.662	3.10	147.28	2.67	47.30				2667	222222555
8	2902.4	1.639	1.429	27.747	36.982	45.803	34.666	34.667	3.18	147.48	2.63	47.00				2866	222222555
7	3115.5	1.575	1.346	27.757	36.996	45.822	34.671	34.671	3.23	147.48	2.62	46.80				3075	222222555
6	3301.4	1.554	1.307	27.763	37.004	45.831	34.674	34.674	3.32	146.98	2.61	46.60				3257	222222555
5	3504.4	1.543	1.276	27.766	37.009	45.838	34.676	34.677	3.38	146.38	2.60	46.40				3456	222222555
4	3703.3	1.544	1.256	27.769	37.012	45.842	34.677	34.676	3.42	145.67	2.58	46.00				3650	222222555
3	3903.3	1.546	1.237	27.771	37.016	45.847	34.679	34.679	3.50	144.76	2.57	45.90				3845	222222555
2	4104.7	1.541	1.210	27.774	37.020	45.852	34.679	34.681	3.55	144.46	2.58	45.90				4042	222222555
1	4390.9	1.556	1.192	27.776	37.023	45.856	34.681	34.684	3.54	143.86	2.56	45.80				4321	222222555

CRUISE: MW 893 STA: 28 DATE (D/M/Y): 15- 2-89 TIME: 1756 LAT: 9 0.15 N LONG: 137 14.87 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22821E-04 1/S SOUND SPEED= 1497.1 M/S Depth= 3608 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.663	34.045	5.03	28.663	21.462	29.692	37.572	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.663	34.045	5.03	28.663	21.462	29.692	37.572	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.701	34.049	4.80	28.697	21.453	29.683	37.563	0.127	0.1	0.06	0.126	1.68	0.487	20.0
30	28.703	34.049	4.72	28.696	21.453	29.683	37.562	0.190	0.3	0.00	0.118	1.98	0.528	30.0
40	28.706	34.053	4.67	28.696	21.456	29.686	37.565	0.254	0.5	-0.09	0.185	3.78	0.729	40.0
50	28.706	34.057	4.65	28.694	21.460	29.690	37.569	0.317	0.8	-0.60	0.914	19.78	1.668	50.0
100	26.773	34.566	4.36	26.750	22.472	30.742	38.660	0.620	3.1	-138.36	12.474	1164.54	12.801	100.0
125	22.540	34.845	3.90	22.515	23.956	32.335	40.354	0.733	4.4	-118.76	1.012	781.81	10.488	125.0
150	19.696	34.808	3.62	19.669	24.703	33.166	41.264	0.823	5.7	-143.73	-4.741	716.16	10.038	149.9
200	14.385	34.587	2.98	14.356	25.793	34.438	42.707	0.957	8.0	-100.33	-4.312	408.14	7.578	199.8
250	10.618	34.519	1.72	10.588	26.475	35.267	43.675	1.051	10.2	-34.22	0.740	153.80	4.652	249.5
300	9.883	34.545	1.42	9.848	26.623	35.447	43.883	1.128	12.3	-21.84	0.110	86.63	3.491	299.2
350	8.854	34.560	1.34	8.817	26.803	35.671	44.149	1.197	14.6	-8.69	0.522	41.32	2.411	349.0
400	8.489	34.571	1.31	8.447	26.869	35.754	44.247	1.261	17.1	-8.42	0.035	31.18	2.094	398.7
450	7.938	34.553	1.51	7.892	26.939	35.849	44.365	1.322	19.7	-8.23	-0.342	23.18	1.806	448.3
500	7.596	34.545	1.60	7.546	26.984	35.909	44.440	1.381	22.6	-10.61	-0.287	31.69	2.112	498.0
600	6.856	34.532	1.69	6.799	27.078	36.038	44.602	1.491	28.7	-5.12	-0.071	15.91	1.496	597.3
700	6.313	34.523	1.70	6.249	27.144	36.131	44.719	1.596	35.7	-4.54	0.028	15.46	1.475	696.5
800	5.904	34.530	1.66	5.833	27.202	36.209	44.816	1.696	43.3	-6.20	0.033	20.63	1.704	795.7
900	5.222	34.532	1.83	5.146	27.287	36.327	44.966	1.788	51.3	-5.12	0.042	16.79	1.537	894.8
1000	4.742	34.541	1.87	4.661	27.350	36.415	45.076	1.875	59.7	-5.90	0.123	19.91	1.674	993.9
1200	3.760	34.568	2.01	3.669	27.476	36.591	45.300	2.026	76.6	-3.01	0.087	10.34	1.206	1191.9
1400	3.173	34.587	2.15	3.071	27.549	36.695	45.433	2.161	94.5	-2.69	0.100	9.55	1.159	1389.7
1600	2.815	34.603	2.25	2.701	27.595	36.761	45.517	2.284	113.2	-2.22	0.091	8.01	1.062	1587.3
1800	2.522	34.616	2.39	2.395	27.632	36.814	45.586	2.397	133.0	-1.18	0.055	4.38	0.785	1784.6
2000	2.243	34.630	2.55	2.103	27.667	36.865	45.651	2.506	153.9	-1.32	0.067	5.12	0.848	1981.8
2200	2.064	34.640	2.67	1.909	27.690	36.898	45.695	2.608	175.8	-0.81	0.039	3.12	0.662	2178.9
2400	1.887	34.650	2.83	1.718	27.713	36.931	45.738	2.707	199.0	-0.92	0.049	3.74	0.726	2375.7
2600	1.750	34.658	2.99	1.565	27.731	36.958	45.772	2.801	223.1	-0.78	0.043	3.24	0.675	2572.3
2800	1.651	34.665	3.14	1.450	27.745	36.978	45.798	2.893	248.3	-0.32	0.019	1.38	0.440	2768.8
3000	1.598	34.670	3.23	1.379	27.754	36.991	45.815	2.983	275.1	-0.41	0.023	1.80	0.504	2965.1
3200	1.557	34.673	3.31	1.320	27.761	37.001	45.828	3.073	303.4	-0.25	0.015	1.12	0.398	3161.2
3400	1.541	34.675	3.38	1.284	27.765	37.007	45.836	3.162	333.5	-0.16	0.010	0.77	0.329	3357.1
3600	1.537	34.677	3.41	1.259	27.768	37.012	45.842	3.252	365.7	-0.14	0.010	0.77	0.000	3552.9
3609	1.535	34.678	3.42	1.257	27.769	37.013	45.843	3.257	367.2	-0.15	0.011	0.77	0.000	3561.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.8	28.685	28.683	21.462	29.692	37.572	34.055	34.054	4.68	1.81	0.10	9.00		1.807	0.875	7	222222522
23	47.3	28.633	28.621	21.532	29.763	37.643	34.121	34.112	4.68	1.81	0.11	9.00		1.802	0.877	47	222222522
22	71.9	27.576	27.559	22.141	30.393	38.293	34.470	34.473	4.77	2.01	0.19	9.10			0.839	71	222222552
21	97.8	26.299	26.277	22.655	30.937	38.865	34.611	34.599	4.36	2.72	0.25	9.50		1.612	0.811	97	222222522
20	120.9	23.051	23.027	23.810	32.174	40.179	34.845	34.850	3.88	3.83	0.45	12.60				120	222222555
19	146.8	18.688	18.663	25.161	33.652	41.777	35.070	34.817	3.62	6.85	0.67	16.00		1.571	0.821	145	222222522
18	196.6	14.143	14.114	25.859	34.512	42.788	34.605	34.609	3.13	15.82	1.18	24.80		1.303	0.656	195	222222522
17	296.9	9.736	9.702	26.643	35.473	43.915	34.539	34.545	1.39	36.57	2.34	41.40		0.260	0.127	295	222222522
16	396.8	8.574	8.532	26.857	35.738	44.227	34.572	34.570	1.34	43.32	2.51	43.80		0.106	0.044	394	222222522
15	593.9	6.919	6.863	27.072	36.029	44.591	34.536	34.531	1.67	57.12	2.64	46.10			0.037	589	222222552
14	744.6	6.064	5.998	27.186	36.184	44.784	34.535	34.527	1.67	68.40	2.81	47.80			0.010	739	222222552
13	896.2	5.007	4.933	27.315	36.366	45.015	34.536	34.536	1.84	86.13	2.82	47.90		-0.001		889	222222525
12	1097.3	4.116	4.031	27.433	36.529	45.220	34.559	34.556	1.98	103.26	2.83	48.80		-0.007		1088	222222525
11	1397.5	3.208	3.106	27.546	36.690	45.426	34.587	34.585	2.15	121.79	2.84	49.00				1384	222222555
9	1999.0	2.279	2.138	27.663	36.859	45.644	34.629	34.628	2.55	140.63	2.79	48.70		0.034	0.019	1978	222222522
8	2199.6	2.075	1.920	27.689	36.897	45.693	34.640	34.639	2.69	143.96	2.77	48.30		-0.010	0.004	2175	222222522
7	2400.4	1.923	1.753	27.709	36.926	45.730	34.649	34.648	2.83	145.67	2.72	48.00		-0.008	0.017	2373	222222522
6	2602.4	1.780	1.595	27.728	36.953	45.766	34.657	34.658	2.98	146.68	2.68	47.50		-0.014	-0.008	2571	222222522
5	2801.0	1.666	1.465	27.745	36.977	45.796	34.666	34.664	3.13		2.67	47.10		0.012	-0.005	2766	222522522
4	3002.1	1.621	1.402	27.752	36.987	45.810	34.669	34.668	3.23	146.88	2.62	46.90		0.018	-0.008	2964	222222522
3	3203.4	1.556	1.319	27.761	37.002	45.828	34.674	34.673	3.32	146.58	2.60	46.40		0.010	0.002	3161	222222522
2	3406.1	1.542	1.285	27.766	37.008	45.836	34.676	34.677	3.40	146.27	2.58	46.40		0.001	-0.008	3359	222222522
1	3613.0	1.535	1.257	27.768	37.012	45.842	34.677	34.677	3.42	145.77	2.57	46.20		0.011		3562	222222525

CRUISE: MW 893 STA: 29 DATE (D/M/Y): 16- 2-89 TIME: 0051 LAT: 9 0.16 N LONG: 137 50.10 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22821E-04 1/S SOUND SPEED= 1492.6 M/S Depth= 1970 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.701	34.064	5.26	28.701	21.463	29.693	37.572	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.701	34.064	5.26	28.701	21.463	29.693	37.572	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.704	34.059	4.91	28.699	21.460	29.689	37.568	0.127	0.1	-0.94	-0.116	5.04	0.842	20.0
30	28.700	34.059	4.79	28.693	21.462	29.691	37.571	0.190	0.3	0.46	0.112	-1.50	-0.459	30.0
40	28.699	34.059	4.94	28.690	21.463	29.693	37.572	0.254	0.5	-0.83	0.331	11.68	1.282	40.0
50	28.696	34.073	4.86	28.684	21.476	29.705	37.585	0.317	0.8	-1.67	4.053	80.27	3.361	50.0
100	27.251	34.509	4.59	27.228	22.277	30.536	38.444	0.622	3.1	-92.74	12.329	862.97	11.019	100.0
125	24.314	34.774	4.17	24.287	23.387	31.717	39.692	0.749	4.6	-110.27	5.055	802.96	10.629	125.0
150	21.447	34.871	3.93	21.418	24.283	32.692	40.740	0.851	6.0	-179.61	-3.525	992.74	11.819	150.0
200	13.468	34.512	3.27	13.440	25.926	34.606	42.908	0.988	8.4	-73.44	-3.892	287.31	6.358	199.8
250	11.112	34.455	2.31	11.081	26.337	35.110	43.499	1.086	10.7	-39.29	-0.061	165.52	4.826	249.6
300	10.115	34.503	1.78	10.080	26.551	35.365	43.793	1.169	13.0	-16.30	1.985	98.97	3.732	299.3
350	9.049	34.557	1.40	9.011	26.770	35.630	44.099	1.241	15.4	-16.66	0.612	73.01	3.205	349.0
400	8.501	34.563	1.43	8.459	26.861	35.745	44.238	1.305	17.8	-5.97	-0.024	21.24	1.729	398.7
450	8.182	34.559	1.47	8.136	26.908	35.806	44.312	1.367	20.5	-6.89	-0.082	23.15	1.805	448.4
500	7.767	34.549	1.56	7.716	26.962	35.880	44.404	1.427	23.4	-10.01	-0.241	30.77	2.081	498.0
600	7.104	34.536	1.67	7.046	27.047	35.995	44.549	1.539	29.7	-5.64	-0.101	17.24	1.558	597.3
700	6.363	34.527	1.72	6.299	27.141	36.125	44.711	1.646	36.8	-8.66	-0.017	28.42	2.000	696.6
800	5.766	34.530	1.71	5.696	27.220	36.233	44.847	1.744	44.2	-5.26	0.084	17.80	1.583	795.7
900	5.075	34.537	1.88	5.000	27.309	36.356	45.002	1.835	52.1	-7.49	0.115	25.16	1.882	894.9
1000	4.569	34.549	1.95	4.489	27.375	36.448	45.118	1.917	60.1	-4.41	0.093	14.93	1.450	993.9
1200	3.748	34.570	2.08	3.657	27.479	36.594	45.304	2.067	76.9	-3.34	0.094	11.37	1.265	1191.9
1400	3.259	34.585	2.19	3.156	27.539	36.681	45.415	2.201	94.6	-2.81	0.101	9.86	1.178	1389.7
1600	2.777	34.605	2.34	2.664	27.600	36.767	45.526	2.322	113.2	-1.35	0.058	4.95	0.834	1587.3
1800	2.673	34.610	2.41	2.544	27.614	36.788	45.552	2.439	133.4	-1.12	0.049	4.15	0.764	1784.7
1939	2.503	34.619	2.48	2.365	27.637	36.820	45.593	2.518	148.4	-0.85	0.042	4.15	0.000	1921.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.711	28.712	21.465	29.694	37.573	34.071	34.070	4.93	1.41	0.10	9.00				1	222222555
23	21.1	28.697	28.691	21.470	29.699	37.578	34.069	34.069	4.72	1.61	0.10	9.00				20	222222555
22	47.4	28.478	28.466	21.636	29.870	37.753	34.191	34.190	4.96	1.61	0.13	9.00				47	222222555
21	71.5	28.356	28.339	21.717	29.953	37.838	34.243	34.243	4.89	1.61	0.19	9.00				71	222222555
20	97.4	26.330	26.308	22.674	30.954	38.881	34.649	34.630	4.44	2.22	0.30	9.50				96	222222555
19	120.4	24.251	24.226	23.403	31.735	39.711	34.771	34.781	4.03	3.32	0.44	11.90				119	222222555
18	147.0	22.094	22.065	24.113	32.504	40.534	34.885	34.869	4.05	4.33	0.50	13.30				146	222222555
17	172.5	18.375	18.344	25.007	33.512	41.649	34.764	34.770	3.64	7.96	0.77	17.50				171	222222555
16	197.7	14.756	14.726	25.717	34.348	42.604	34.591	34.591	3.56	13.00	1.06	22.50				196	222222555
15	247.7	11.814	11.782	26.230	34.975	43.337	34.484	34.493	2.56	25.49	1.75	32.40				246	222222555
14	297.9	10.163	10.128	26.541	35.353	43.779	34.501	34.499	1.85	34.65	2.15	38.80				296	222222555
13	397.5	8.487	8.445	26.862	35.747	44.240	34.562	34.560	1.39	44.12	2.50	44.30				394	222222555
12	498.2	7.578	7.529	26.985	35.911	44.443	34.544	34.544	1.56	50.57	2.57	45.40				494	222222555
11	747.0	5.910	5.844	27.197	36.203	44.810	34.524	34.527	1.70	70.82	2.76	47.80				741	222222555
10	999.0	4.444	4.365	27.390	36.469	45.145	34.550	34.551	1.98	96.71	2.83	48.80				990	222222555
9	1099.5	4.194	4.108	27.422	36.515	45.202	34.557	34.556	2.02	102.05	2.84	48.80				1090	222222555
8	1199.8	3.921	3.829	27.459	36.566	45.267	34.567	34.564	2.09	107.49	2.84	48.90				1189	222222555
7	1300.3	3.497	3.401	27.510	36.639	45.361	34.577	34.577	2.13	116.46	2.84	49.10				1288	222222555
6	1401.5	3.290	3.187	27.536	36.676	45.408	34.585	34.585	2.21	120.69	2.84	49.00				1388	222222555
5	1501.4	2.928	2.821	27.581	36.740	45.491	34.599	34.598	2.30	127.54	2.83	49.00				1487	222222555
4	1601.4	2.774	2.660	27.600	36.767	45.526	34.604	34.606	2.38	130.56	2.82	48.80				1586	222222555
3	1696.5	2.702	2.581	27.610	36.781	45.544	34.608	34.611	2.40		2.80	48.80				1680	222522555
2	1904.7	2.498	2.362	27.636	36.819	45.593	34.618	34.621	2.50	136.30	2.79	48.80				1885	222222555
1	1946.5	2.501	2.362	27.636	36.820	45.593	34.618	34.619	2.48	135.90	2.78	48.70				1926	222222555

CRUISE: MW 893 STA: 30 DATE (D/M/Y): 16- 2-89 TIME: 0347 LAT: 8 59.20 N LONG: 138 0.48 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22781E-04 1/S SOUND SPEED= 1497.8 M/S Depth= 3704 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.788	33.550	4.92	28.788	21.049	29.282	37.164	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.788	33.550	4.92	28.787	21.049	29.282	37.164	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.774	34.127	4.83	28.769	21.488	29.715	37.592	0.127	0.1	-2.64	-0.264	15.11	1.459	20.0
30	28.741	34.125	4.84	28.734	21.498	29.726	37.604	0.190	0.3	-2.01	-0.151	12.30	1.317	30.0
40	28.734	34.124	4.89	28.724	21.500	29.728	37.607	0.253	0.5	-0.78	-0.092	4.22	0.771	40.0
50	28.726	34.124	4.86	28.714	21.503	29.732	37.610	0.316	0.8	-1.08	0.224	11.74	1.286	50.0
100	27.059	34.540	4.61	27.036	22.362	30.625	38.537	0.624	3.1	-87.42	12.527	829.40	10.812	100.1
125	24.338	34.774	4.03	24.311	23.379	31.709	39.683	0.752	4.6	-133.82	7.798	1088.67	12.388	125.0
150	22.141	34.860	3.91	22.111	24.082	32.471	40.501	0.857	6.1	-124.67	1.536	784.50	10.516	150.0
200	14.895	34.589	3.34	14.865	25.685	34.311	42.562	1.008	8.7	-107.79	-5.660	441.90	7.892	199.8
250	11.709	34.452	2.55	11.677	26.225	34.974	43.341	1.112	11.1	-57.78	-1.398	222.23	5.597	249.6
300	9.884	34.477	1.83	9.849	26.570	35.394	43.831	1.194	13.4	-12.77	1.527	76.27	3.279	299.3
350	9.352	34.525	1.58	9.313	26.696	35.543	44.001	1.267	15.8	-15.86	0.208	63.52	2.992	349.0
400	8.571	34.558	1.43	8.529	26.846	35.727	44.217	1.334	18.4	-17.41	0.256	67.72	3.090	398.7
450	7.937	34.547	1.56	7.891	26.934	35.844	44.361	1.396	21.1	-11.50	-0.481	32.05	2.125	448.4
500	7.462	34.528	1.76	7.413	26.989	35.921	44.458	1.454	23.9	-7.29	-0.048	24.25	1.849	498.1
600	6.825	34.517	1.89	6.768	27.071	36.032	44.598	1.565	30.1	-3.25	-0.013	10.81	1.234	597.4
700	6.338	34.520	1.86	6.274	27.138	36.124	44.711	1.671	37.2	-7.69	0.037	25.94	1.912	696.6
800	5.706	34.528	1.80	5.636	27.225	36.241	44.858	1.770	44.7	-5.43	0.086	18.64	1.621	795.8
900	5.133	34.538	1.79	5.058	27.302	36.347	44.990	1.861	52.6	-6.49	0.098	21.77	1.752	894.9
1000	4.567	34.544	1.96	4.487	27.372	36.445	45.114	1.945	60.7	-4.32	0.065	14.30	1.420	994.0
1200	3.802	34.568	2.10	3.711	27.472	36.585	45.292	2.098	77.8	-4.12	0.119	14.21	1.415	1192.0
1400	3.271	34.585	2.20	3.168	27.538	36.679	45.412	2.233	95.7	-2.66	0.103	9.46	1.155	1389.7
1600	2.764	34.606	2.37	2.650	27.602	36.770	45.529	2.355	114.4	-2.01	0.090	7.37	1.019	1587.3
1800	2.473	34.619	2.51	2.346	27.639	36.823	45.597	2.469	134.1	-1.13	0.051	4.19	0.768	1784.7
2000	2.259	34.630	2.63	2.119	27.666	36.862	45.648	2.577	155.1	-1.48	0.067	5.60	0.889	1981.9
2200	2.054	34.640	2.75	1.899	27.692	36.900	45.697	2.679	177.0	-0.95	0.045	3.65	0.718	2178.9
2400	1.850	34.651	2.92	1.681	27.717	36.937	45.745	2.778	200.0	-0.90	0.047	3.63	0.715	2375.8
2600	1.727	34.659	3.04	1.543	27.734	36.962	45.777	2.872	224.1	-0.72	0.043	3.03	0.654	2572.4
2800	1.637	34.666	3.17	1.436	27.746	36.980	45.801	2.963	249.2	-0.25	0.014	1.08	0.390	2768.9
3000	1.620	34.667	3.21	1.401	27.751	36.986	45.809	3.054	276.0	-0.27	0.015	1.20	0.411	2965.2
3200	1.575	34.672	3.29	1.337	27.758	36.998	45.824	3.144	304.6	-0.37	0.022	1.64	0.481	3161.3
3400	1.539	34.675	3.39	1.282	27.765	37.008	45.836	3.234	334.8	-0.16	0.013	0.80	0.335	3357.2
3600	1.548	34.676	3.43	1.271	27.767	37.010	45.839	3.324	367.0	-0.19	0.014	0.80	0.000	3553.0
3693	1.522	34.679	3.48	1.235	27.771	37.016	45.847	3.366	382.7	-0.40	0.030	0.80	0.000	3643.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.7	28.796	28.795	21.486	29.713	37.589	34.137	34.139	4.84	1.71		9.00				0	222252555
23	71.4	27.514	27.498	22.155	30.408	38.309	34.461	34.451	4.64	2.42		10.20				70	222252555
22	204.7	23.074	23.032	23.756	32.121	40.127	34.776	34.800	3.73	4.73		13.90				203	222252555
21	155.1	18.878	18.850	24.904	33.393	41.515	34.796	34.804	3.67	7.45		16.70				154	222252555
20	197.3	13.990	13.961	25.857	34.516	42.799	34.561	34.553	3.29	16.42		25.20				196	222252555
19	295.4	9.896	9.862	26.563	35.387	43.824	34.472	34.469	1.92	35.86		38.60				293	222252555
18	402.6	8.521	8.479	26.846	35.729	44.221	34.547	34.542	1.51	44.63		43.60				399	222252555
17	498.0	7.432	7.383	27.003	35.936	44.474	34.540	34.526	1.74	52.18		44.70				494	222252555
16	603.8	6.769	6.713	27.077	36.042	44.610	34.516	34.516	1.89	58.73		45.50				599	222252555
15	746.9	6.094	6.026	27.170	36.167	44.766	34.519	34.518	1.99	67.70		46.60				741	222252555
14	896.9	5.108	5.033	27.305	36.350	44.995	34.537	34.538	1.81	84.72		48.40				889	222252555
13	1198.8	3.791	3.700	27.473	36.586	45.293	34.568	34.567	2.05	111.52		48.90				1188	222252555
12	1398.8	3.192	3.090	27.548	36.692	45.430	34.588	34.585	2.21	123.91		48.90				1386	222252555
11	1598.0	2.747	2.634	27.604	36.773	45.533	34.607	34.606	2.37	132.07		48.10				1582	222252555
10	1796.6	2.483	2.357	27.636	36.820	45.594	34.618	34.620	2.51	137.31		48.40				1778	222252555
9	1996.7	2.249	2.109	27.667	36.864	45.650	34.630	34.630	2.60	141.34		48.30				1976	222252555
8	2199.1	2.035	1.881	27.694	36.904	45.702	34.642	34.641	2.75	145.57		48.10				2175	222252555
7	2400.3	1.835	1.667	27.719	36.941	45.749	34.653	34.652	2.94	147.89		47.80				2373	222252555
6	2599.3	1.709	1.525	27.736	36.965	45.781	34.661	34.660	3.04	149.60		47.10				2568	222252555
5	2800.9	1.635	1.434	27.747	36.981	45.802	34.666	34.665	3.16	149.60		47.00				2766	222252555
4	3002.0	1.619	1.400	27.751	36.986	45.809	34.667	34.667	3.23	149.40		46.80				2964	222252555
3	3204.7	1.580	1.342	27.758	36.997	45.823	34.672	34.672	3.28	149.40		46.60				3162	222252555
2	3404.9	1.536	1.279	27.766	37.008	45.837	34.676	34.675	3.42	148.49		46.40				3358	222252555
1	3697.2	1.520	1.233	27.771	37.016	45.847	34.678	34.679	3.48	147.38		45.30				3644	222252555

CRUISE: MW 893 STA: 31 DATE (D/M/Y): 16- 2-89 TIME: 0800 LAT: 8 59.86 N LONG: 138 11.72 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22809E-04 1/S SOUND SPEED= 1502.6 M/S Depth= 4557 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.680	34.136	5.32	28.680	21.524	29.753	37.632	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.680	34.136	5.32	28.680	21.524	29.753	37.632	0.019	0.0	-0.48	0.000	0.00	0.000	3.0
20	28.690	34.136	4.88	28.685	21.522	29.751	37.630	0.125	0.1	0.46	0.086	-1.94	-0.522	20.0
30	28.692	34.136	4.98	28.685	21.522	29.751	37.630	0.188	0.3	-0.81	-0.309	0.82	0.340	30.0
40	28.677	34.130	4.84	28.667	21.524	29.753	37.632	0.251	0.5	-4.50	-1.296	11.55	1.275	40.0
50	28.641	34.122	4.90	28.629	21.530	29.760	37.641	0.314	0.8	-2.51	-0.333	12.94	1.350	50.0
100	27.392	34.482	4.51	27.369	22.212	30.468	38.372	0.625	3.2	-85.28	15.575	869.02	11.061	100.1
125	24.449	34.747	4.09	24.422	23.326	31.654	39.625	0.756	4.7	-138.04	9.143	1169.39	12.831	125.0
150	21.320	34.849	3.78	21.291	24.301	32.714	40.766	0.862	6.1	-169.59	0.905	1105.79	12.477	150.0
200	15.984	34.644	3.49	15.953	25.485	34.072	42.286	1.012	8.8	-113.71	-6.558	459.82	8.046	199.8
250	11.618	34.464	2.42	11.586	26.251	35.004	43.374	1.117	11.2	-50.38	1.045	231.65	5.711	249.6
300	9.973	34.524	1.55	9.938	26.591	35.411	43.844	1.199	13.5	-18.05	1.431	95.76	3.672	299.3
350	8.905	34.562	1.38	8.867	26.796	35.662	44.138	1.269	15.8	-22.21	-0.952	65.78	3.043	349.0
400	8.195	34.533	1.54	8.154	26.884	35.782	44.288	1.333	18.3	-11.53	0.094	42.74	2.453	398.7
450	7.772	34.532	1.65	7.727	26.947	35.864	44.388	1.393	20.9	-6.87	0.071	25.21	1.884	448.4
500	7.551	34.533	1.69	7.502	26.980	35.908	44.441	1.451	23.7	-8.92	-0.284	25.71	1.902	498.1
600	6.807	34.523	1.76	6.751	27.077	36.040	44.607	1.562	29.9	-6.29	-0.082	19.33	1.650	597.4
700	6.030	34.517	1.90	5.968	27.176	36.176	44.777	1.665	36.7	-7.97	0.012	26.03	1.914	696.6
800	5.486	34.530	1.81	5.417	27.254	36.281	44.907	1.760	44.0	-5.06	0.185	19.25	1.646	795.8
900	5.131	34.538	1.78	5.055	27.303	36.347	44.991	1.849	51.7	-3.99	0.060	13.29	1.368	894.9
1000	4.786	34.544	1.93	4.704	27.348	36.410	45.069	1.934	59.9	-3.90	0.079	13.26	1.366	994.0
1200	3.808	34.569	2.09	3.717	27.472	36.585	45.291	2.089	77.3	-4.94	0.139	16.93	1.544	1192.0
1400	3.116	34.589	2.22	3.015	27.556	36.705	45.445	2.222	94.9	-2.36	0.075	8.08	1.066	1389.7
1600	2.736	34.607	2.36	2.623	27.605	36.774	45.535	2.343	113.3	-1.60	0.075	5.97	0.917	1587.3
1800	2.540	34.616	2.48	2.413	27.631	36.811	45.582	2.457	133.1	-1.73	0.076	6.39	0.949	1784.7
2000	2.230	34.630	2.61	2.090	27.668	36.866	45.654	2.565	154.0	-1.05	0.047	3.96	0.747	1981.9
2200	2.037	34.641	2.74	1.883	27.693	36.903	45.700	2.667	175.9	-1.12	0.044	4.18	0.767	2178.9
2400	1.871	34.648	2.85	1.702	27.713	36.932	45.739	2.765	198.9	-0.81	0.044	3.29	0.680	2375.8
2600	1.757	34.656	2.98	1.573	27.729	36.956	45.769	2.860	223.0	-0.53	0.033	2.28	0.566	2572.4
2800	1.670	34.663	3.08	1.469	27.742	36.974	45.793	2.952	248.5	-0.45	0.025	1.92	0.519	2768.9
3000	1.615	34.667	3.19	1.396	27.751	36.987	45.810	3.043	275.4	-0.28	0.016	1.22	0.415	2965.1
3200	1.575	34.671	3.26	1.337	27.758	36.997	45.823	3.134	303.9	-0.33	0.021	1.50	0.460	3161.3
3400	1.542	34.674	3.35	1.285	27.764	37.007	45.835	3.223	334.2	-0.17	0.010	0.76	0.327	3357.2
3600	1.521	34.677	3.42	1.244	27.770	37.014	45.845	3.313	366.3	-0.21	0.014	1.01	0.376	3552.9
3800	1.510	34.680	3.51	1.213	27.774	37.020	45.852	3.403	400.3	-0.18	0.012	0.90	0.355	3748.5
4000	1.497	34.682	3.58	1.178	27.778	37.026	45.860	3.494	436.3	-0.12	0.007	0.58	0.285	3943.9
4200	1.492	34.684	3.65	1.151	27.781	37.031	45.866	3.585	474.4	-0.15	0.009	0.75	0.326	4139.2
4400	1.486	34.686	3.72	1.122	27.785	37.036	45.873	3.676	514.5	-0.20	0.014	1.04	0.383	4334.2
4547	1.474	34.687	3.81	1.094	27.788	37.040	45.879	3.744	545.3	-0.16	0.012	1.04	0.000	4477.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	28.675	28.673	21.544	29.773	37.652	34.159	34.160	5.22	1.81	0.13	9.10				6	222222555
23	47.0	28.627	28.615	21.550	29.780	37.660	34.142	34.143	4.88	1.81	0.13	9.10				46	222222555
22	96.7	28.126	28.103	21.858	30.099	37.988	34.328	34.379	4.73	2.22	0.21	9.20				96	222222555
21	147.6	20.855	20.827	24.442	32.869	40.933	34.869	34.867	3.77	5.44	0.59	14.60				146	222222555
20	245.4	12.052	12.020	26.155	34.891	43.244	34.445	34.452	2.99	22.36	1.55	29.80				243	222222555
19	296.3	10.127	10.092	26.555	35.368	43.795	34.511	34.507	1.73	34.96	2.26	39.80				294	222222555
18	344.2	8.941	8.904	26.796	35.660	44.134	34.569	34.567	1.31	41.71	2.49	44.20				341	222222555
17	396.3	8.282	8.241	26.873	35.767	44.269	34.535	34.535	1.54	46.54	2.50	44.60				393	222222555
16	498.4	7.616	7.567	26.965	35.890	44.421	34.525	34.531	1.68	51.08	2.53	45.20				495	222222555
15	596.9	6.796	6.740	27.071	36.035	44.602	34.513	34.515	1.87	58.63	2.63	46.20				592	222222555
14	740.4	5.798	5.733	27.210	36.222	44.834	34.524	34.523	1.81	73.14	2.77	48.10				734	222222555
13	1001.0	4.691	4.610	27.359	36.426	45.090	34.546	34.547	1.91	93.79	2.87	49.40				992	222222555
12	1247.3	3.572	3.479	27.502	36.626	45.344	34.576	34.576	2.11	116.05	2.89	49.60				1236	222222555
11	1497.2	2.918	2.811	27.581	36.740	45.491	34.597	34.598	2.25	130.66	2.90	49.70				1483	222222555
10	1998.0	2.237	2.097	27.669	36.866	45.653	34.631	34.632		142.65	2.80	49.10				1977	225222555
9	2501.8	1.802	1.625	27.723	36.946	45.757	34.653	34.653	2.93	150.20	2.73	48.20				2472	222222555
8	3002.0	1.625	1.406	27.750	36.986	45.808	34.667	34.667	3.24	150.40	2.68	47.60				2964	222222555
7	3504.8	1.534	1.267	27.767	37.010	45.840	34.676	34.676	3.38	150.20	2.64	47.20				3456	222222555
6	3704.8	1.514	1.227	27.772	37.017	45.849	34.679	34.679	3.47	149.30	2.64	46.90				3652	222222555
5	3903.1	1.504	1.196	27.776	37.023	45.857	34.681	34.682	3.53	147.79	2.58	46.60				3845	222222555
4	4105.9	1.499	1.169	27.778	37.027	45.862	34.682	34.683	3.64	147.68	2.57	46.70				4043	222222555
3	4306.6	1.490	1.138	27.783	37.033	45.869	34.685	34.687	3.68	146.17	2.55	46.10				4239	222222555
2	4406.0	1.485	1.122	27.785	37.036	45.873	34.686	34.687	3.82	144.36	2.53	45.90				4336	222222555
1	4550.1	1.474	1.094	27.787	37.040	45.879	34.687	34.688	3.74	142.95	2.51	45.80				4476	222222555

CRUISE: MW 893 STA: 32 DATE (D/M/Y): 16- 2-89 TIME: 1232 LAT: 8 59.62 N LONG: 138 23.28 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22799E-04 1/S SOUND SPEED= 1499.8 M/S Depth= 4049 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.655	34.146	5.27	28.655	21.540	29.769	37.649	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.655	34.146	5.27	28.655	21.540	29.769	37.649	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.666	34.162	4.82	28.661	21.550	29.779	37.658	0.125	0.1	-0.13	0.055	1.88	0.515	20.0
30	28.671	34.162	4.90	28.663	21.549	29.778	37.658	0.188	0.3	0.33	0.036	-1.85	-0.511	30.0
40	28.673	34.164	4.90	28.664	21.550	29.780	37.659	0.250	0.5	-0.08	0.145	3.04	0.655	40.0
50	28.670	34.172	4.89	28.658	21.558	29.787	37.666	0.313	0.8	-0.21	0.285	6.29	0.942	50.0
100	28.165	34.340	4.66	28.141	21.854	30.094	37.982	0.623	3.2	-63.23	11.263	643.90	9.523	100.0
125	25.880	34.659	4.34	25.852	22.824	31.115	39.053	0.760	4.7	-110.21	9.206	891.31	11.204	125.0
150	22.277	34.830	3.76	22.247	24.021	32.407	40.433	0.872	6.3	-189.47	0.449	1209.50	13.052	150.0
200	16.222	34.662	3.48	16.190	25.445	34.023	42.230	1.025	9.0	-90.12	-4.970	382.94	7.344	199.8
250	12.844	34.506	2.83	12.810	26.049	34.753	43.077	1.140	11.6	-72.31	-3.378	269.31	6.159	249.6
300	10.503	34.484	1.89	10.468	26.469	35.267	43.680	1.229	14.1	-28.27	2.025	149.19	4.584	299.4
350	9.576	34.552	1.44	9.536	26.680	35.517	43.966	1.304	16.6	-18.28	0.581	80.04	3.358	349.1
400	8.573	34.537	1.56	8.531	26.830	35.711	44.201	1.371	19.2	-12.32	-0.730	32.28	2.132	398.8
450	8.007	34.535	1.63	7.961	26.914	35.821	44.335	1.434	21.9	-9.49	-0.010	33.49	2.172	448.4
500	7.654	34.528	1.71	7.604	26.962	35.885	44.414	1.493	24.8	-8.95	-0.248	26.80	1.943	498.1
600	6.853	34.519	1.86	6.797	27.068	36.028	44.593	1.606	31.1	-8.64	-0.020	28.09	1.989	597.4
700	5.949	34.525	1.79	5.887	27.192	36.196	44.801	1.708	37.8	-6.40	0.154	23.10	1.804	696.6
800	5.434	34.532	1.81	5.366	27.261	36.291	44.919	1.801	44.9	-4.46	0.030	14.45	1.426	795.8
900	5.031	34.539	1.88	4.957	27.315	36.364	45.012	1.889	52.6	-4.21	0.131	15.10	1.458	894.9
1000	4.619	34.548	1.98	4.538	27.369	36.440	45.107	1.972	60.6	-3.94	0.093	13.41	1.375	994.0
1200	3.787	34.569	2.12	3.697	27.474	36.587	45.295	2.124	77.7	-4.16	0.118	14.20	1.414	1192.0
1400	3.175	34.589	2.23	3.074	27.550	36.696	45.434	2.257	95.3	-1.71	0.053	5.87	0.910	1389.8
1600	2.833	34.601	2.32	2.718	27.592	36.757	45.512	2.381	114.2	-2.11	0.089	7.67	1.039	1587.4
1800	2.484	34.619	2.48	2.357	27.637	36.821	45.595	2.496	134.0	-1.22	0.067	4.74	0.817	1784.7
2000	2.287	34.629	2.59	2.146	27.662	36.858	45.642	2.605	155.1	-0.99	0.045	3.74	0.726	1981.9
2200	2.097	34.639	2.73	1.942	27.687	36.893	45.688	2.709	177.5	-1.21	0.043	4.47	0.793	2179.0
2400	1.922	34.645	2.82	1.752	27.707	36.923	45.728	2.809	200.8	-0.86	0.046	3.49	0.701	2375.8
2600	1.768	34.655	2.97	1.583	27.728	36.953	45.767	2.905	225.3	-0.69	0.051	3.11	0.662	2572.4
2800	1.670	34.663	3.13	1.468	27.742	36.974	45.793	2.997	250.8	-0.53	0.031	2.29	0.568	2768.9
3000	1.616	34.667	3.19	1.397	27.751	36.987	45.810	3.088	277.7	-0.33	0.015	1.39	0.442	2965.2
3200	1.575	34.671	3.28	1.337	27.758	36.997	45.823	3.178	306.2	-0.24	0.016	1.11	0.395	3161.3
3400	1.547	34.674	3.37	1.290	27.764	37.006	45.834	3.268	336.5	-0.23	0.016	1.10	0.394	3357.2
3600	1.524	34.677	3.46	1.247	27.769	37.014	45.844	3.358	368.6	-0.22	0.016	1.07	0.388	3553.0
3800	1.508	34.680	3.54	1.210	27.774	37.020	45.853	3.448	402.6	-0.19	0.013	0.94	0.364	3748.6
4000	1.497	34.682	3.61	1.178	27.778	37.026	45.860	3.539	438.5	-0.13	0.009	0.94	0.000	3944.0
4051	1.502	34.682	3.62	1.178	27.778	37.026	45.860	3.562	448.0	-0.12	0.010	0.94	0.000	3993.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.651	28.651	21.549	29.778	37.658	34.156	34.157	4.99	2.12	0.12	9.10				1	222222555
23	46.0	28.658	28.647	21.555	29.784	37.664	34.162	34.170	4.90	2.12	0.11	9.10				45	222222555
22	97.1	27.254	27.232	22.272	30.531	38.439	34.504	34.489	4.65	2.62	0.20	9.10				96	222222555
21	146.6	21.563	21.535	24.200	32.606	40.652	34.804	34.833	3.71	5.64	0.54	14.70				145	222222555
20	194.4	15.521	15.491	25.494	34.098	42.329	34.519	34.662	3.63	11.08	0.93	20.80				193	222222555
19	245.2	11.971	11.939	26.183	34.922	43.278	34.462	34.458	2.89	23.17	1.57	30.50				243	222222555
18	296.4	10.539	10.503	26.476	35.273	43.683	34.501	34.498	1.89	33.14	2.12	38.50				294	222222555
17	394.4	8.624	8.582	26.824	35.702	44.190	34.539	34.537	1.51	44.63	2.48	44.20				391	222222555
16	495.5	7.682	7.633	26.962	35.884	44.411	34.534	34.530	1.69	51.08	2.56	45.30				492	222222555
15	597.4	6.777	6.720	27.079	36.043	44.611	34.520	34.515	1.88	58.93	2.61	46.40				593	222222555
14	748.3	5.642	5.577	27.233	36.252	44.871	34.529	34.527	1.81	75.56	2.80	48.80				742	222222555
13	996.6	4.672	4.591	27.361	36.429	45.094	34.545	34.544	1.89	93.99	2.85	49.40				988	222222555
12	1246.3	3.656	3.562	27.491	36.611	45.325	34.573	34.572	2.12	114.64	2.88	49.90				1235	222222555
11	1497.2	3.070	2.961	27.563	36.714	45.458	34.591	34.590	2.23	127.44	2.87	50.00				1483	222222555
10	1749.7	2.591	2.467	27.624	36.801	45.570	34.613	34.611	2.43	136.50	2.84	49.60				1732	222222555
9	1999.2	2.290	2.149	27.663	36.858	45.642	34.629	34.627	2.63	142.35	2.81	49.20				1978	222222555
8	2249.8	2.097	1.938	27.688	36.894	45.689	34.640	34.638	2.74	145.27	2.78	48.90				2225	222222555
7	2499.2	1.859	1.682	27.716	36.936	45.745	34.650	34.649	2.86	151.11	2.78	48.60				2470	222222555
6	2751.4	1.695	1.498	27.739	36.970	45.787	34.662	34.661	3.13	151.11	2.70	47.90				2718	222222555
5	3002.6	1.615	1.396	27.752	36.988	45.811	34.669	34.667	3.20	151.82	2.69	47.70				2964	222222555
4	3248.2	1.566	1.324	27.761	37.001	45.827	34.673	34.673	3.31	151.21	2.64	47.30				3205	222222555
3	3504.9	1.524	1.257	27.769	37.012	45.842	34.677	34.676	3.41	149.90	2.60	47.00				3456	222222555
2	3756.0	1.517	1.224	27.773	37.018	45.850	34.679	34.679	3.50	149.10	2.58	46.70				3702	222222555
1	4052.5	1.502	1.178	27.777	37.026	45.860	34.681	34.684	3.59	147.68	2.57	46.50				3991	222222555

CRUISE: MW 893 STA: 33 DATE (D/M/Y): 16- 2-89 TIME: 1717 LAT: 8 58.83 N LONG: 138 40.73 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22766E-04 1/S SOUND SPEED= 1502.4 M/S Depth= 4482 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.647	33.946	4.38	28.647	21.392	29.624	37.506	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.647	33.946	4.38	28.647	21.393	29.624	37.506	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.673	34.111	4.71	28.668	21.509	29.739	37.619	0.126	0.1	-0.04	0.003	0.36	0.225	20.0
30	28.675	34.112	4.63	28.668	21.510	29.739	37.619	0.189	0.3	0.02	0.021	0.21	0.172	30.0
40	28.677	34.112	4.67	28.667	21.510	29.740	37.619	0.252	0.5	0.08	-0.013	-0.82	-0.341	40.0
50	28.677	34.112	4.59	28.665	21.511	29.740	37.620	0.315	0.8	-0.17	-0.007	1.11	0.395	50.0
100	27.288	34.509	4.37	27.265	22.265	30.523	38.430	0.622	3.1	-79.05	12.231	766.43	10.397	100.0
125	24.872	34.716	3.96	24.845	23.176	31.492	39.453	0.752	4.6	-98.95	6.359	765.74	10.393	125.0
150	22.445	34.825	3.71	22.415	23.969	32.350	40.372	0.861	6.2	-117.01	1.386	745.66	10.256	150.0
200	16.495	34.695	3.41	16.463	25.407	33.976	42.173	1.022	9.0	-92.06	-4.692	400.43	7.515	199.8
250	12.872	34.520	2.74	12.838	26.054	34.757	43.079	1.136	11.6	-32.07	-1.068	127.11	4.234	249.6
300	11.225	34.477	2.28	11.187	26.335	35.104	43.488	1.231	14.3	-50.22	0.005	209.66	5.438	299.4
350	9.728	34.542	1.47	9.688	26.647	35.478	43.920	1.310	16.9	-29.42	0.212	116.43	4.052	349.1
400	8.501	34.530	1.56	8.459	26.836	35.720	44.213	1.377	19.4	-12.79	0.006	46.43	2.559	398.8
450	8.052	34.529	1.62	8.006	26.904	35.808	44.320	1.440	22.1	-9.52	0.098	35.23	2.229	448.5
500	7.630	34.542	1.58	7.580	26.976	35.900	44.430	1.499	25.0	-7.09	-0.159	21.75	1.752	498.1
600	7.125	34.539	1.61	7.067	27.047	35.994	44.546	1.612	31.4	-8.11	-0.178	24.37	1.854	597.4
700	6.327	34.528	1.67	6.263	27.146	36.132	44.720	1.718	38.3	-8.07	-0.039	25.55	1.898	696.6
800	5.484	34.530	1.84	5.415	27.254	36.281	44.907	1.814	45.7	-6.28	0.073	20.96	1.719	795.8
900	4.895	34.540	1.90	4.822	27.331	36.387	45.041	1.902	53.3	-6.02	0.085	19.72	1.668	894.9
1000	4.389	34.548	1.98	4.311	27.394	36.476	45.154	1.983	61.2	-4.35	0.147	15.45	1.476	994.0
1200	3.690	34.572	2.09	3.600	27.486	36.604	45.316	2.130	77.6	-3.49	0.090	11.65	1.282	1192.0
1400	3.152	34.588	2.20	3.051	27.552	36.699	45.438	2.262	95.1	-2.21	0.079	7.74	1.045	1389.8
1600	2.766	34.604	2.33	2.653	27.600	36.768	45.527	2.384	113.8	-1.88	0.088	6.98	0.993	1587.4
1800	2.527	34.617	2.45	2.400	27.632	36.814	45.585	2.498	133.6	-1.27	0.061	4.77	0.820	1784.7
2000	2.273	34.629	2.58	2.132	27.664	36.860	45.645	2.607	154.7	-1.14	0.057	4.37	0.785	1982.0
2200	2.074	34.640	2.72	1.919	27.689	36.897	45.693	2.711	176.8	-0.86	0.042	3.38	0.690	2179.0
2400	1.911	34.648	2.85	1.741	27.710	36.927	45.732	2.810	200.2	-1.02	0.042	3.92	0.743	2375.8
2600	1.760	34.656	2.97	1.575	27.729	36.955	45.768	2.905	224.4	-0.75	0.041	3.10	0.662	2572.4
2800	1.642	34.665	3.14	1.441	27.746	36.979	45.800	2.997	249.7	-0.47	0.033	2.11	0.545	2768.9
3000	1.603	34.669	3.24	1.384	27.753	36.990	45.813	3.087	276.4	-0.23	0.014	1.02	0.380	2965.2
3200	1.575	34.672	3.31	1.337	27.759	36.998	45.824	3.177	304.8	-0.23	0.014	1.02	0.380	3161.3
3400	1.538	34.675	3.38	1.281	27.765	37.008	45.836	3.267	335.1	-0.23	0.016	1.12	0.397	3357.2
3600	1.524	34.678	3.45	1.247	27.769	37.014	45.844	3.357	367.1	-0.12	0.005	0.51	0.269	3553.0
3800	1.520	34.679	3.50	1.222	27.773	37.018	45.850	3.447	401.3	-0.29	0.019	1.41	0.446	3748.6
4000	1.477	34.684	3.63	1.158	27.781	37.030	45.865	3.537	437.1	-0.18	0.012	0.88	0.353	3944.0
4200	1.465	34.686	3.71	1.125	27.785	37.036	45.873	3.627	474.7	-0.17	0.011	0.85	0.347	4139.2
4400	1.463	34.688	3.79	1.101	27.788	37.040	45.878	3.718	514.3	-0.08	0.007	0.85	0.000	4334.3
4485	1.460	34.689	3.84	1.088	27.790	37.043	45.882	3.756	531.8	-0.15	0.014	0.85	0.000	4417.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	28.663	28.661	21.508	29.738	37.617	34.106	34.106	4.80	6.68	0.05	9.00		1.663	0.828	6	222222522
23	57.5	28.652	28.638	21.536	29.766	37.646	34.134	34.135	4.77	6.65	0.07	9.10		1.727	0.862	57	222222522
22	97.7	27.427	27.405	22.212	30.467	38.370	34.498	34.496	4.74	7.05	0.15	9.10		1.740	0.813	97	222222522
20	147.2	20.305	20.278	24.402	32.848	40.931	34.623	34.842	3.69	9.87	0.54	15.10		1.589	0.818	146	222222522
19	198.2	15.580	15.549	25.572	34.173	42.400	34.638	34.642	3.46	17.63	1.01	22.40			0.725	196	222222552
18	296.6	9.860	9.826	26.620	35.444	43.881	34.536	34.513	1.64	40.30	2.22	40.20		0.367	0.164	294	222222522
17	397.5	8.016	7.976	26.907	35.813	44.327	34.528	34.531	1.60	52.89	2.50	44.70		0.103		394	222222525
16	497.2	7.407	7.359	27.010	35.944	44.484	34.545	34.543	1.57		2.63	46.50			-0.001	493	222522552
15	597.1	6.835	6.779	27.081	36.042	44.607	34.533	34.533	1.61	64.17	2.68	46.90			0.014	592	222222552
14	695.5	6.195	6.133	27.160	36.152	44.746	34.524	34.526	1.70	72.84	2.75	47.80			0.005	690	222222552
13	797.1	5.483	5.414	27.254	36.281	44.907	34.530	34.528	1.82	83.92	2.77	48.50		0.000		791	222222555
12	898.6	4.978	4.904	27.320	36.372	45.023	34.538	34.537	1.87	92.78	2.82	49.20		0.000	0.022	891	222222552
11	997.7	4.545	4.465	27.375	36.449	45.120	34.545	34.545	1.93	101.34	2.84	49.30		0.027	0.009	989	222222522
10	1297.0	3.544	3.447	27.504	36.631	45.350	34.576	34.575	2.13	117.97	2.85	49.60		0.001	-0.001	1285	222222522
9	1497.2	3.009	2.901	27.570	36.724	45.471	34.593	34.592	2.24	128.54	2.85	49.60		0.023	0.022	1483	222222522
8	1748.6	2.616	2.492	27.621	36.798	45.565	34.613	34.612	2.43	136.60	2.83	49.30		0.011	0.024	1731	222222522
7	1998.0	2.285	2.145	27.663	36.858	45.643	34.629	34.628	2.60	142.55	2.80	49.10			0.001	1977	222222552
6	2498.5	1.820	1.643	27.721	36.944	45.754	34.653	34.653	2.92	151.31	2.74	48.40		-0.012	0.011	2469	222222522
5	3002.1	1.594	1.375	27.755	36.992	45.816	34.671	34.669	3.27	149.80	2.65	47.40		0.003	0.016	2964	222222522
4	3502.6	1.534	1.267	27.767	37.010	45.840	34.676	34.676	3.41	148.59	2.60	46.90		0.014	-0.001	3454	222222522
3	4028.7	1.480	1.159	27.780	37.029	45.864	34.683	34.684	3.63	146.78	2.55	46.20		-0.002	-0.010	3968	222222522
2	4312.2	1.461	1.109	27.786	37.038	45.876	34.686	34.689	3.72	144.86	2.52	45.90		0.005	-0.008	4244	222222522
1	4472.4	1.460	1.090	27.788	37.042	45.880	34.688		3.87	143.15	2.51	45.60		-0.015	-0.011	4401	252222522

CRUISE: MW 893 STA: 34 DATE (D/M/Y): 16- 2-89 TIME: 2345 LAT: 8 59.56 N LONG: 139 10.24 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22796E-04 1/S SOUND SPEED= 1497.9 M/S Depth= 3699 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.658	34.097	5.20	28.658	21.502	29.732	37.612	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.658	34.097	5.20	28.658	21.502	29.732	37.612	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.658	34.089	4.85	28.653	21.498	29.728	37.608	0.126	0.1	-0.49	-0.094	2.06	0.539	20.0
30	28.658	34.089	4.79	28.651	21.499	29.729	37.609	0.189	0.3	-0.22	-0.010	1.42	0.447	30.0
40	28.659	34.090	4.80	28.650	21.499	29.730	37.610	0.252	0.5	-0.17	0.126	3.35	0.687	40.0
50	28.661	34.091	4.75	28.649	21.500	29.731	37.611	0.315	0.8	-0.19	0.187	4.55	0.800	50.0
100	27.409	34.495	4.43	27.386	22.216	30.471	38.375	0.625	3.2	-74.94	13.731	765.38	10.383	100.1
125	25.194	34.705	4.00	25.167	23.069	31.378	39.331	0.756	4.7	-83.80	6.056	666.14	9.687	125.0
150	22.989	34.823	3.87	22.958	23.813	32.179	40.187	0.870	6.3	-112.87	2.774	723.77	10.097	150.0
200	15.488	34.629	3.05	15.457	25.586	34.190	42.421	1.031	9.1	-137.69	-5.708	596.50	9.166	199.8
250	11.261	34.515	2.06	11.230	26.356	35.123	43.506	1.130	11.4	-27.88	0.407	124.71	4.191	249.6
300	9.907	34.537	1.47	9.873	26.612	35.435	43.870	1.211	13.6	-27.09	0.868	121.08	4.130	299.3
350	8.913	34.576	1.27	8.875	26.807	35.672	44.147	1.280	15.9	-13.06	0.238	52.52	2.720	349.0
400	8.462	34.580	1.27	8.420	26.881	35.766	44.260	1.343	18.3	-6.16	-0.008	22.24	1.770	398.7
450	8.035	34.569	1.38	7.989	26.937	35.842	44.354	1.404	21.0	-11.52	-0.323	35.30	2.230	448.4
500	7.699	34.559	1.47	7.649	26.980	35.900	44.427	1.463	23.8	-5.94	-0.167	17.81	1.584	498.1
600	6.968	34.539	1.57	6.910	27.068	36.023	44.582	1.575	30.1	-6.88	-0.116	21.36	1.735	597.4
700	6.231	34.532	1.63	6.168	27.161	36.152	44.744	1.680	37.0	-7.53	-0.034	23.96	1.837	696.6
800	5.562	34.532	1.79	5.493	27.246	36.269	44.892	1.776	44.4	-5.51	0.041	18.05	1.594	795.8
900	5.163	34.536	1.85	5.088	27.297	36.340	44.982	1.866	52.2	-5.31	0.052	17.03	1.549	894.9
1000	4.574	34.549	1.91	4.494	27.374	36.447	45.116	1.950	60.3	-4.83	0.114	16.63	1.531	994.0
1200	3.786	34.570	2.10	3.696	27.475	36.588	45.296	2.101	77.3	-3.71	0.085	12.34	1.319	1192.0
1400	3.135	34.588	2.21	3.034	27.553	36.701	45.441	2.236	95.1	-3.02	0.111	10.63	1.224	1389.7
1600	2.692	34.607	2.35	2.579	27.609	36.781	45.543	2.356	113.5	-2.19	0.096	7.97	1.060	1587.3
1800	2.413	34.621	2.49	2.288	27.645	36.833	45.610	2.467	132.7	-1.10	0.055	4.14	0.763	1784.7
2000	2.227	34.632	2.63	2.088	27.670	36.868	45.655	2.574	153.3	-0.79	0.041	3.07	0.658	1981.9
2200	2.096	34.639	2.72	1.941	27.687	36.893	45.688	2.677	175.4	-0.97	0.051	3.82	0.733	2178.9
2400	1.886	34.650	2.89	1.717	27.714	36.932	45.738	2.775	198.5	-0.84	0.036	3.23	0.674	2375.8
2600	1.769	34.656	3.00	1.584	27.728	36.954	45.767	2.870	222.7	-0.68	0.039	2.85	0.634	2572.4
2800	1.662	34.664	3.14	1.461	27.743	36.976	45.795	2.962	248.1	-0.46	0.027	1.98	0.529	2768.9
3000	1.618	34.668	3.23	1.398	27.751	36.987	45.810	3.053	274.9	-0.19	0.011	0.82	0.341	2965.2
3200	1.600	34.670	3.28	1.362	27.756	36.993	45.818	3.144	303.6	-0.23	0.013	1.02	0.379	3161.3
3400	1.586	34.673	3.35	1.328	27.760	37.000	45.826	3.235	334.3	-0.10	0.006	0.49	0.263	3357.2
3600	1.594	34.673	3.38	1.315	27.761	37.002	45.829	3.327	367.2	-0.07	0.005	0.33	0.216	3553.0
3713	1.600	34.674	3.40	1.309	27.762	37.003	45.830	3.380	386.8	-0.07	0.006	0.33	0.000	3663.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	23.4	28.662	28.656	21.499	29.730	37.609	34.093	34.090	4.95	1.61	0.10	9.00				23	222222555
23	47.3	28.669	28.657	21.502	29.732	37.612	34.097	34.096	4.68	1.61	0.10	9.00				47	222222555
22	71.4	28.573	28.556	21.550	29.782	37.664	34.115	34.099	4.87	1.61	0.11	9.00				70	222222555
21	96.2	26.326	26.304	22.635	30.916	38.844	34.596	34.566	4.48	2.22	0.22	9.30				95	222222555
20	122.9	24.250	24.224	23.427	31.758	39.734	34.802	34.786	4.01	3.53	0.39	12.20				122	222222555
19	147.2	19.768	19.742	24.762	33.221	41.316	34.910	34.838	3.70	5.84	0.61	15.50				146	222222555
18	171.8	16.404	16.376	25.415	33.987	42.187	34.679	34.678	3.24	12.89	1.06	22.70				170	222222555
17	196.7	14.095	14.066	25.826	34.482	42.761	34.550	34.587	3.14	16.32	1.32	25.60				195	222222555
16	246.7	11.230	11.199	26.364	35.132	43.516	34.518	34.512	2.21	28.71	1.89	35.10				245	222222555
15	294.3	9.828	9.794	26.637	35.463	43.901	34.551	34.535	1.53	36.37	2.29	41.00				292	222222555
14	398.3	8.348	8.307	26.894	35.785	44.284	34.576	34.580	1.32	44.12	2.55	45.00				395	222222555
13	498.2	7.641	7.592	26.987	35.910	44.439	34.558	34.556	1.44	49.87	2.61	45.90				494	222222555
12	633.2	6.643	6.584	27.109	36.079	44.653	34.535	34.535	1.58	60.14	2.72	47.20				628	222222555
11	768.3	5.583	5.516	27.243	36.265	44.887	34.532	34.528	1.74	72.43	2.78	48.10				762	222222555
10	873.6	5.190	5.116	27.293	36.335	44.975	34.535	34.533	1.79	82.61	2.83	48.60				866	222222555
9	997.0	4.503	4.423	27.385	36.461	45.134	34.552	34.549	1.88	95.60	2.85	49.20				989	222222555
8	1497.8	2.904	2.797	27.584	36.744	45.496	34.599	34.597	2.29	128.75	2.84	49.30				1484	222222555
7	2000.2	2.220	2.080	27.672	36.870	45.658	34.634	34.632	2.61	141.64	2.78	48.70				1979	222222555
6	2251.0	2.011	1.853	27.699	36.910	45.709	34.645	34.645	2.82	144.46	2.75	48.30				2226	222222555
5	2502.1	1.814	1.637	27.724	36.947	45.757	34.656	34.655	2.96	147.89	2.72	47.80				2473	222222555
4	2752.3	1.677	1.480	27.743	36.975	45.793	34.666	34.663	3.17	147.89	2.67	47.40				2719	222222555
3	3004.1	1.619	1.399	27.752	36.987	45.810	34.669	34.668	3.24	148.49	2.63	47.10				2966	222222555
2	3505.8	1.593	1.324	27.760	37.000	45.826	34.672	34.673	3.36	147.99	2.62	46.90				3457	222222555
1	3716.6	1.601	1.310	27.762	37.002	45.830	34.673	34.672	3.36	147.58	2.61	46.80				3663	222222555

CRUISE: MW 893 STA: 35 DATE (D/M/Y): 17- 2-89 TIME: 0507 LAT: 8 59.52 N LONG: 139 34.79 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22795E-04 1/S SOUND SPEED= 1497.6 M/S Depth= 3679 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.974	34.094	4.92	28.974	21.395	29.618	37.491	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.974	34.094	4.92	28.974	21.395	29.618	37.491	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.733	34.105	4.54	28.728	21.485	29.713	37.592	0.127	0.1	-1.34	0.000	9.88	1.180	20.0
30	28.725	34.105	4.59	28.717	21.488	29.717	37.595	0.190	0.3	-1.17	-0.041	7.93	1.057	30.0
40	28.718	34.105	4.63	28.709	21.491	29.720	37.598	0.253	0.5	-0.56	0.001	4.13	0.763	40.0
50	28.716	34.105	4.49	28.704	21.493	29.722	37.601	0.316	0.8	-0.41	0.118	5.04	0.842	50.0
100	27.493	34.525	4.17	27.470	22.211	30.464	38.366	0.629	3.2	-87.93	16.602	906.51	11.300	100.1
125	25.135	34.730	3.74	25.108	23.107	31.416	39.371	0.759	4.7	-84.26	3.696	588.52	9.105	125.0
150	21.490	34.805	3.29	21.461	24.221	32.630	40.677	0.868	6.2	-145.89	0.524	938.22	11.496	150.0
200	15.103	34.628	2.69	15.073	25.670	34.288	42.531	1.014	8.8	-71.19	-2.696	310.40	6.613	199.8
250	12.780	34.545	2.25	12.746	26.091	34.797	43.123	1.122	11.2	-41.59	-1.132	166.22	4.839	249.6
300	10.450	34.531	1.59	10.414	26.515	35.315	43.729	1.211	13.7	-42.92	0.025	173.67	4.946	299.3
350	9.097	34.544	1.36	9.058	26.752	35.610	44.078	1.283	16.1	-19.41	0.721	85.88	3.478	349.0
400	8.468	34.563	1.42	8.426	26.866	35.751	44.245	1.349	18.6	-12.44	-0.154	42.65	2.451	398.7
450	7.818	34.550	1.58	7.773	26.955	35.870	44.391	1.410	21.3	-9.71	-0.178	31.01	2.090	448.4
500	7.481	34.541	1.63	7.431	26.996	35.927	44.464	1.468	24.1	-5.19	0.004	17.98	1.591	498.1
600	6.726	34.537	1.54	6.670	27.099	36.065	44.635	1.578	30.2	-9.20	-0.117	28.28	1.996	597.4
700	5.863	34.531	1.66	5.802	27.207	36.215	44.824	1.677	36.8	-5.79	0.015	18.65	1.621	696.6
800	5.369	34.531	1.82	5.301	27.268	36.301	44.933	1.770	43.9	-3.77	0.005	11.90	1.295	795.8
900	5.009	34.537	1.85	4.935	27.316	36.367	45.016	1.858	51.6	-4.85	0.043	15.58	1.481	894.9
1000	4.503	34.547	1.92	4.423	27.381	36.457	45.130	1.941	59.6	-6.05	0.103	19.75	1.668	994.0
1200	3.653	34.574	2.08	3.563	27.491	36.612	45.326	2.087	75.9	-2.97	0.107	10.39	1.210	1191.9
1400	3.105	34.591	2.20	3.004	27.558	36.707	45.449	2.217	93.2	-2.31	0.065	7.74	1.044	1389.7
1600	2.723	34.604	2.29	2.610	27.604	36.774	45.535	2.338	111.6	-1.34	0.055	4.81	0.823	1587.3
1800	2.501	34.616	2.41	2.374	27.633	36.816	45.589	2.451	131.3	-1.27	0.071	4.94	0.834	1784.7
2000	2.295	34.628	2.55	2.154	27.662	36.856	45.640	2.560	152.3	-1.07	0.054	4.08	0.758	1981.9
2200	2.021	34.643	2.75	1.867	27.696	36.906	45.705	2.662	174.3	-1.02	0.052	3.97	0.747	2178.9
2400	1.858	34.652	2.89	1.689	27.717	36.937	45.745	2.759	197.0	-0.52	0.025	2.04	0.536	2375.7
2600	1.772	34.657	3.00	1.587	27.729	36.955	45.767	2.854	221.1	-0.47	0.025	1.94	0.523	2572.4
2800	1.690	34.663	3.08	1.488	27.740	36.971	45.789	2.947	246.7	-0.59	0.037	2.59	0.604	2768.9
3000	1.618	34.668	3.21	1.398	27.751	36.987	45.810	3.038	273.6	-0.21	0.010	0.90	0.355	2965.1
3200	1.583	34.672	3.28	1.345	27.758	36.997	45.822	3.128	302.2	-0.20	0.013	0.93	0.362	3161.3
3400	1.587	34.673	3.33	1.329	27.760	37.000	45.826	3.219	332.8	-0.04	0.001	0.16	0.151	3357.2
3600	1.598	34.673	3.36	1.319	27.761	37.001	45.828	3.311	365.7	-0.08	0.004	0.16	0.000	3552.9
3683	1.602	34.674	3.39	1.315	27.762	37.002	45.829	3.350	380.1	-0.06	0.003	0.16	0.000	3634.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	28.750	28.748	21.467	29.695	37.573	34.090	34.090	4.66	1.51	0.10	9.00		1.701	0.848	6	222222522
23	72.6	28.217	28.199	21.847	30.085	37.972	34.355	34.341	4.51	1.91	0.16	9.00		1.798	0.838	72	222222522
22	96.6	25.975	25.953	22.811	31.100	39.035	34.684	34.676	4.12	2.12	0.28	10.50		1.685	0.802	96	222222522
21	121.0	24.217	24.192	23.402	31.735	39.712	34.757	34.752	3.80	4.13	0.45	12.90		1.530	0.780	120	222222522
20	147.2	20.703	20.676	24.431	32.863	40.933	34.801	34.814	3.53	6.65	0.66	16.40		1.525	0.783	146	222222522
19	172.4	16.982	16.953	25.329	33.880	42.061	34.742	34.721	3.44	10.48	0.93	20.30			0.749	171	222222552
18	197.1	13.504	13.476	25.966	34.643	42.943	34.572	34.572	2.71	21.05	1.50	29.50		0.968	0.469	195	222222522
17	247.0	11.354	11.323	26.346	35.109	43.488	34.523	34.525	2.18	28.81	1.91	35.30		0.619	0.302	245	222222522
16	297.4	9.732	9.698	26.640	35.471	43.913	34.535	34.535	1.59	37.07	2.29	41.10		0.281	0.132	295	222222522
15	397.2	8.470	8.428	26.867	35.752	44.246	34.565	34.561	1.48	43.82	2.51	44.50			0.054	394	222222552
14	496.8	7.655	7.606	26.976	35.899	44.428	34.547	34.546	1.64	49.66	2.56	45.30		0.079	0.037	493	222222522
13	599.1	7.116	7.059	27.049	35.997	44.550	34.541	34.541	1.54	55.31	2.69	46.70		0.016		594	222222525
12	697.2	6.356	6.292	27.146	36.131	44.717	34.533	34.532	1.59	64.57	2.77	47.70		0.006		692	222222525
11	796.7	5.569	5.500	27.246	36.268	44.891	34.533	34.533	1.72	76.26	2.81	48.60			0.013	790	222222552
10	897.1	4.988	4.914	27.320	36.371	45.021	34.539	34.538	1.87	86.64	2.84	48.80		0.012	0.008	890	222222522
9	997.9	4.552	4.472	27.375	36.448	45.119	34.546	34.546	1.93	95.60	2.84	48.90		0.026	0.029	989	222222522
8	1501.2	2.871	2.764	27.586	36.748	45.501	34.599	34.597	2.28	130.16	2.85	49.20		-0.014	0.002	1487	222222522
7	2000.0	2.274	2.134	27.665	36.861	45.646	34.631	34.629	2.59	141.14	2.78	48.90		0.008	0.008	1979	222222522
6	2500.6	1.828	1.651	27.723	36.945	45.754	34.655	34.655	2.98	146.78	2.70	47.80		-0.003	0.011	2471	222222522
5	2752.7	1.688	1.491	27.741	36.972	45.790	34.664	34.663	3.11	148.49	2.68	47.40		0.012	-0.004	2719	222222522
4	3000.5	1.619	1.400	27.751	36.987	45.809	34.668	34.669	3.22	148.49	2.63	47.10		0.004	0.005	2962	222222522
3	3252.4	1.585	1.342	27.758	36.997	45.823	34.672	34.672	3.30	148.39	2.61	46.90		0.010	0.008	3209	222222522
2	3504.9	1.596	1.327	27.760	37.000	45.826	34.673	34.673	3.33	148.39	2.61	46.90		0.011	-0.007	3456	222222522
1	3686.1	1.603	1.315	27.761	37.002	45.829	34.673	34.674	3.35	148.39	2.60	46.80		-0.016		3633	222222525

CRUISE: MW 893 STA: 36 DATE (D/M/Y): 17- 2-89 TIME: 1029 LAT: 8 59.47 N LONG: 139 59.98 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.22793E-04 1/S SOUND SPEED= 1497.3 M/S Depth= 3583 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.796	34.106	4.47	28.796	21.463	29.690	37.567	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.796	34.106	4.47	28.795	21.463	29.690	37.567	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.805	34.106	4.72	28.800	21.462	29.688	37.565	0.127	0.1	-0.06	0.198	3.77	0.729	20.0
30	28.801	34.110	4.79	28.794	21.467	29.693	37.570	0.190	0.3	-2.75	1.078	38.36	2.325	30.0
40	28.783	34.117	4.79	28.774	21.479	29.706	37.583	0.253	0.5	-1.49	0.271	15.56	1.481	40.0
50	28.772	34.119	4.74	28.760	21.485	29.712	37.589	0.317	0.8	-0.81	0.076	7.27	1.012	50.0
100	27.196	34.531	4.25	27.173	22.311	30.572	38.480	0.622	3.1	-99.22	11.504	888.17	11.186	100.0
125	23.517	34.744	3.67	23.491	23.599	31.951	39.946	0.747	4.6	-135.25	1.964	965.67	11.664	125.0
150	20.641	34.778	3.48	20.613	24.431	32.865	40.937	0.846	5.9	-120.95	0.862	767.02	10.395	150.0
200	15.476	34.609	3.13	15.445	25.573	34.178	42.409	0.998	8.6	-134.97	-5.768	582.54	9.059	199.8
250	11.331	34.488	2.20	11.299	26.323	35.087	43.467	1.098	10.9	-35.30	-0.017	150.86	4.610	249.6
300	10.389	34.518	1.77	10.353	26.515	35.318	43.734	1.182	13.3	-27.98	0.733	124.48	4.188	299.3
350	9.398	34.556	1.38	9.359	26.713	35.557	44.013	1.255	15.7	-15.11	0.675	69.24	3.123	349.0
400	8.741	34.572	1.36	8.699	26.831	35.704	44.187	1.322	18.2	-9.12	0.180	36.83	2.278	398.7
450	8.229	34.573	1.33	8.182	26.911	35.807	44.311	1.384	21.0	-8.16	-0.176	26.27	1.924	448.4
500	7.780	34.558	1.45	7.730	26.967	35.883	44.407	1.444	23.8	-8.69	-0.256	26.03	1.915	498.1
600	7.098	34.540	1.56	7.040	27.051	36.000	44.554	1.557	30.2	-7.40	-0.105	22.92	1.797	597.4
700	6.307	34.529	1.76	6.243	27.150	36.136	44.725	1.662	37.1	-4.68	-0.043	14.53	1.431	696.6
800	5.717	34.531	1.80	5.647	27.226	36.242	44.858	1.760	44.6	-6.27	0.051	20.98	1.719	795.8
900	5.201	34.536	1.74	5.125	27.293	36.334	44.974	1.852	52.6	-6.15	0.084	20.29	1.691	894.9
1000	4.633	34.547	1.86	4.552	27.367	36.436	45.103	1.936	60.7	-3.97	0.078	13.47	1.377	994.0
1200	3.813	34.565	2.01	3.722	27.469	36.581	45.287	2.088	77.8	-4.45	0.100	14.69	1.439	1192.0
1400	3.132	34.586	2.18	3.031	27.552	36.700	45.440	2.221	95.4	-2.17	0.091	7.81	1.049	1389.7
1600	2.723	34.605	2.32	2.610	27.604	36.775	45.536	2.343	113.9	-2.00	0.094	7.41	1.022	1587.3
1800	2.461	34.619	2.48	2.335	27.639	36.824	45.599	2.455	133.4	-1.13	0.055	4.24	0.773	1784.7
2000	2.238	34.632	2.63	2.098	27.669	36.866	45.653	2.563	154.2	-1.01	0.053	3.95	0.746	1981.9
2200	2.088	34.640	2.75	1.933	27.688	36.895	45.690	2.665	176.2	-0.88	0.044	3.45	0.697	2178.9
2400	1.929	34.649	2.88	1.759	27.709	36.925	45.730	2.765	199.5	-0.84	0.042	3.36	0.688	2375.8
2600	1.814	34.656	3.01	1.628	27.724	36.948	45.759	2.861	224.0	-0.72	0.039	2.99	0.650	2572.4
2800	1.678	34.664	3.17	1.476	27.742	36.974	45.793	2.954	249.7	-0.69	0.035	2.87	0.636	2768.9
3000	1.628	34.668	3.24	1.408	27.750	36.986	45.808	3.045	276.6	-0.22	0.012	0.95	0.367	2965.2
3200	1.592	34.671	3.32	1.353	27.757	36.995	45.820	3.136	305.4	-0.25	0.015	1.14	0.401	3161.3
3400	1.576	34.674	3.37	1.318	27.761	37.002	45.828	3.227	335.9	-0.09	0.006	0.43	0.247	3357.2
3583	1.591	34.674	3.38	1.314	27.762	37.002	45.829	3.311	365.8	-0.03	0.000	0.43	0.000	3536.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.781	28.782	21.474	29.701	37.578	34.113	34.112	4.99	1.61	0.16	9.00				1	222222555
23	71.4	28.754	28.736	21.496	29.724	37.602	34.123	34.124	4.85	1.61	0.17	9.00				70	222222555
22	97.7	27.771	27.748	22.048	30.296	38.192	34.427	34.395	4.60	1.81	0.24	9.20				97	222222555
21	121.3	24.825	24.799	23.201	31.519	39.481	34.732	34.718	3.96	3.32	0.44	12.10				120	222222555
20	147.6	20.483	20.456	24.490	32.928	41.004	34.800	34.789	3.54	6.75	0.72	16.60				146	222222555
19	170.5	17.645	17.616	25.203	33.731	41.891	34.785	34.734	3.29	10.88	0.98	20.80				169	222222555
18	195.7	13.646	13.618	25.913	34.586	42.881	34.542	34.549	2.96	18.84	1.42	27.60				194	222222555
17	246.4	11.139	11.108	26.362	35.134	43.522	34.494	34.487	2.23	28.71	1.93	34.90				244	222222555
16	296.6	10.232	10.197	26.557	35.366	43.788	34.536	34.523	1.81	34.15	2.20	38.90				294	222222555
15	396.4	8.914	8.871	26.800	35.665	44.141	34.567	34.567	1.38	41.50	2.49	43.70				393	222222555
14	497.5	8.048	7.997	26.925	35.829	44.341	34.554	34.572	1.36	46.64	2.59	45.50				494	222222555
13	597.3	7.168	7.110	27.044	35.989	44.540	34.543	34.544	1.57	52.59	2.63	45.60				593	222222555
12	697.2	6.344	6.280	27.142	36.127	44.715	34.526	34.528	1.68	64.47	2.76	47.30				692	222222555
11	794.7	5.677	5.607	27.236	36.253	44.871	34.537	34.531	1.77	74.14	2.78	48.10				788	222222555
10	896.9	5.108	5.033	27.306	36.352	44.996	34.539	34.537	1.75	84.72	2.86	49.20				889	222222555
9	996.3	4.551	4.471	27.376	36.450	45.121	34.548	34.546	1.86	94.39	2.88	49.30				988	222222555
8	1248.9	3.586	3.493	27.495	36.619	45.337	34.570	34.568	2.05	115.75	2.86	49.30				1238	222222555
7	1493.9	2.942	2.835	27.577	36.735	45.485	34.595	34.594	2.24	128.85	2.86	49.30				1480	222222555
6	1748.1	2.544	2.421	27.629	36.809	45.580	34.615	34.615	2.45	136.40	2.84	49.00				1731	222222555
5	1999.0	2.224	2.084	27.671	36.870	45.657	34.633	34.632	2.63	141.84	2.79	48.70				1978	222222555
3	3003.3	1.624	1.404	27.751	36.987	45.809	34.669	34.670	3.24	147.99	2.64	47.00				2965	222222555
2	3506.8	1.584	1.315	27.761	37.001	45.828	34.673	34.673	3.35	148.19	2.61	46.80				3458	222222555
1	3585.0	1.590	1.313	27.762	37.002	45.829	34.674	34.674	3.36	147.79	2.62	46.80				3534	222222555

CRUISE: MW 893 STA: 37 DATE (D/M/Y): 17- 2-89 TIME: 1602 LAT: 9 5.09 N LONG: 140 24.37 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.23028E-04 1/S SOUND SPEED= 1494.8 M/S Depth= 2989 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.724	34.022	5.13	28.724	21.424	29.654	37.533	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.724	34.022	5.13	28.724	21.424	29.654	37.533	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.737	34.065	4.81	28.732	21.454	29.683	37.561	0.127	0.1	-0.05	0.007	0.47	0.256	20.0
30	28.738	34.066	4.84	28.731	21.455	29.684	37.562	0.190	0.3	-0.48	0.050	4.45	0.787	30.0
40	28.738	34.067	4.80	28.728	21.456	29.685	37.563	0.254	0.5	-0.32	-0.026	1.94	0.520	40.0
50	28.739	34.066	4.78	28.727	21.456	29.685	37.564	0.317	0.8	0.03	0.003	-0.15	-0.144	50.0
100	27.004	34.586	4.24	26.981	22.414	30.678	38.590	0.629	3.2	-116.00	16.437	1103.17	12.403	100.1
125	23.820	34.736	3.75	23.794	23.504	31.848	39.836	0.751	4.6	-89.22	2.341	658.16	9.580	125.0
150	22.188	34.748	3.58	22.158	23.983	32.373	40.402	0.856	6.1	-97.95	1.409	635.08	9.411	150.0
200	17.575	34.710	3.38	17.541	25.163	33.695	41.858	1.023	9.0	-59.92	-2.256	294.73	6.411	199.8
250	12.802	34.504	2.75	12.768	26.055	34.761	43.086	1.148	11.8	-98.73	-3.233	397.01	7.440	249.6
300	10.189	34.506	1.65	10.154	26.541	35.352	43.776	1.234	14.3	-27.48	1.754	140.86	4.432	299.4
350	9.203	34.578	1.21	9.164	26.762	35.614	44.077	1.306	16.6	-15.57	0.864	74.67	3.227	349.1
400	8.692	34.580	1.28	8.649	26.845	35.720	44.205	1.372	19.1	-9.15	-0.057	33.01	2.145	398.8
450	8.204	34.571	1.36	8.157	26.914	35.811	44.316	1.434	21.9	-11.47	-0.335	35.76	2.233	448.4
500	7.960	34.563	1.44	7.909	26.944	35.853	44.368	1.494	24.8	-1.39	-0.047	4.14	0.760	498.1
600	7.246	34.543	1.56	7.188	27.033	35.975	44.522	1.610	31.3	-10.00	-0.196	30.99	2.079	597.4
700	6.192	34.530	1.63	6.129	27.165	36.157	44.751	1.716	38.3	-8.28	-0.037	26.40	1.919	696.6
800	5.603	34.530	1.71	5.534	27.239	36.260	44.881	1.812	45.6	-3.36	0.039	11.23	1.251	795.8
900	5.219	34.536	1.72	5.143	27.291	36.331	44.970	1.903	53.5	-4.02	0.060	13.68	1.381	894.9
1000	4.761	34.543	1.88	4.679	27.350	36.413	45.074	1.989	61.8	-6.41	0.105	21.65	1.737	994.0
1200	3.828	34.561	2.01	3.737	27.464	36.575	45.281	2.143	79.0	-4.79	0.113	16.07	1.497	1192.0
1400	3.164	34.585	2.16	3.063	27.548	36.694	45.433	2.275	96.6	-2.24	0.089	8.05	1.060	1389.8
1600	2.771	34.601	2.32	2.658	27.598	36.765	45.524	2.397	115.2	-1.96	0.104	7.54	1.025	1587.4
1800	2.393	34.621	2.50	2.267	27.647	36.835	45.614	2.510	134.7*	-1.74	0.096	6.81	0.974	1784.8
2000	2.154	34.635	2.68	2.015	27.678	36.880	45.671	2.614	154.9	-1.03	0.059	4.13	0.759	1982.0
2200	2.010	34.645	2.79	1.856	27.698	36.909	45.708	2.714	176.4	-0.85	0.044	3.38	0.686	2179.0
2400	1.840	34.655	2.97	1.672	27.720	36.941	45.750	2.811	199.1	-0.91	0.046	3.70	0.718	2375.8
2600	1.731	34.661	3.08	1.547	27.734	36.962	45.777	2.904	222.8	-0.82	0.040	3.33	0.681	2572.4
2800	1.618	34.667	3.23	1.418	27.749	36.984	45.806	2.994	247.7	-0.24	0.015	1.06	0.385	2768.9
3000	1.589	34.671	3.28	1.370	27.755	36.993	45.817	3.084	274.1	-0.19	0.011	1.06	0.000	2965.2
3005	1.589	34.671	3.28	1.369	27.756	36.993	45.817	3.086	274.8	-0.18	0.010	1.06	0.000	2970.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.719	28.719	21.459	29.688	37.567	34.067	34.067	4.91	1.71	0.12	9.20				1	222222555
23	46.8	28.730	28.718	21.459	29.688	37.567	34.066	34.067	4.86	1.41	0.10	9.00				46	222222555
22	97.5	27.279	27.257	22.336	30.593	38.499	34.599	34.585	4.37	2.52	0.22	9.50				96	222222555
21	120.6	25.861	25.835	22.861	31.152	39.090	34.701	34.700	4.11	3.22	0.36	11.80				119	222222555
20	146.0	21.488	21.460	24.160	32.570	40.619	34.725	34.759	3.70	5.54	0.57	15.30				145	222222555
19	171.9	17.775	17.746	25.113	33.638	41.795	34.710	34.737	3.48	9.47	0.83	19.30				170	222222555
18	195.1	16.087	16.056	25.490	34.072	42.283	34.680	34.668	3.40	12.09	1.01	22.10				193	222222555
17	246.0	12.200	12.167	26.210	34.938	43.285	34.552	34.499	2.74	22.67	1.62	30.60				244	222222555
16	297.3	10.206	10.171	26.539	35.349	43.773	34.508	34.502	1.79	34.35	2.17	39.50				295	222222555
15	395.4	8.664	8.622	26.849	35.725	44.211	34.579	34.577	1.27	43.42	2.54	45.20				392	222222555
14	496.5	7.779	7.729	26.967	35.884	44.407	34.558	34.557	1.49	49.46	2.58	45.90				493	222222555
13	598.5	6.956	6.899	27.069	36.024	44.584	34.538	34.538	1.56	57.82	2.70	47.10				594	222222555
12	683.5	6.207	6.146	27.163	36.155	44.748	34.531	34.529	1.59	67.29	2.79	48.30		-0.003	0.001	678	222222522
11	796.6	5.603	5.534	27.240	36.261	44.882	34.531	34.530	1.64	77.67	2.86	49.30				790	222222555
10	895.6	5.193	5.117	27.295	36.336	44.977	34.537	34.537	1.77	84.12	2.87	49.40				888	222222555
9	996.0	4.674	4.593	27.356	36.424	45.088	34.539	34.544	1.91	93.59	2.85	49.30				988	222222555
8	1248.4	3.426	3.335	27.512	36.644	45.369	34.572	34.571	2.07	121.19	2.91	50.10				1237	222222555
7	1497.9	2.962	2.855	27.572	36.729	45.478	34.591	34.590	2.22	129.95	2.87	49.60				1484	222222555
6	1748.7	2.445	2.323	27.642	36.827	45.603	34.621	34.617	2.48	140.13	2.85	49.60				1731	222222555
5	1999.2	2.150	2.011	27.680	36.882	45.673	34.637	34.636	2.67	144.56	2.82	49.10				1978	222222555
4	2250.7	1.937	1.780	27.708	36.923	45.726	34.649	34.648	2.87	146.38	2.75	48.50		-0.007	-0.010	2226	222222522
3	2502.4	1.783	1.607	27.728	36.953	45.764	34.658	34.658	3.03	148.09	2.71	48.00				2473	222222555
2	2752.0	1.624	1.428	27.748	36.983	45.804	34.667	34.667	3.28	150.00	2.67	47.70				2718	222222555
1	3010.9	1.589	1.369	27.755	36.993	45.817	34.671	34.671	3.31	149.80	2.63	47.30				2972	222222555

CRUISE: MW 893 STA: 38 DATE (D/M/Y): 18- 2-89 TIME: 0030 LAT: 9 7.51 N LONG: 141 16.02 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.23129E-04 1/S SOUND SPEED= 1493.6 M/S Depth= 1742 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.716	34.114	4.78	28.716	21.496	29.724	37.603	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.716	34.114	4.78	28.716	21.496	29.724	37.603	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.704	34.119	4.74	28.699	21.505	29.734	37.612	0.126	0.1	-0.21	0.091	3.11	0.657	20.0
30	28.705	34.119	4.79	28.697	21.506	29.735	37.613	0.189	0.3	-0.11	0.044	1.59	0.470	30.0
40	28.706	34.120	4.64	28.697	21.506	29.735	37.614	0.252	0.5	-0.07	0.027	0.97	0.368	40.0
50	28.707	34.120	4.70	28.695	21.507	29.736	37.614	0.315	0.8	-0.05	0.009	0.53	0.270	50.0
100	27.549	34.598	4.75	27.526	22.248	30.499	38.399	0.624	3.2	-68.34	13.393	724.91	10.032	100.0
125	25.246	34.681	4.08	25.219	23.035	31.342	39.295	0.756	4.7	-175.95	-1.561	1158.92	12.684	125.0
150	21.123	34.749	3.50	21.094	24.279	32.699	40.757	0.862	6.1	-128.38	1.605	855.95	10.901	150.0
200	14.943	34.603	2.97	14.913	25.686	34.310	42.559	1.007	8.7	-69.51	-2.859	303.31	6.489	199.8
250	11.329	34.508	2.01	11.298	26.339	35.103	43.483	1.113	11.1	-76.27	-0.964	320.57	6.671	249.6
300	10.043	34.533	1.52	10.008	26.586	35.403	43.833	1.193	13.4	-9.17	0.397	43.75	2.465	299.3
350	9.467	34.563	1.33	9.427	26.707	35.548	44.001	1.266	15.8	-16.81	0.730	78.09	3.293	349.0
400	8.847	34.579	1.25	8.804	26.820	35.689	44.167	1.333	18.4	-9.62	0.050	37.17	2.272	398.7
450	8.229	34.569	1.44	8.182	26.908	35.804	44.308	1.397	21.1	-12.28	-0.251	40.59	2.374	448.4
500	7.975	34.571	1.54	7.923	26.949	35.857	44.372	1.457	24.0	-5.20	-0.235	14.58	1.423	498.1
600	7.302	34.550	1.59	7.244	27.030	35.970	44.514	1.574	30.6	-8.61	-0.207	26.23	1.908	597.4
700	6.441	34.533	1.66	6.377	27.135	36.116	44.699	1.681	37.7	-5.53	-0.053	17.70	1.568	696.6
800	5.868	34.534	1.72	5.798	27.210	36.218	44.827	1.781	45.3	-4.03	0.015	13.52	1.370	795.8
900	5.376	34.537	1.79	5.299	27.273	36.306	44.937	1.875	53.5	-6.49	0.062	21.97	1.746	894.9
1000	4.893	34.543	1.79	4.810	27.335	36.391	45.046	1.963	62.0	-6.24	0.114	20.92	1.704	994.0
1200	4.065	34.561	2.00	3.971	27.440	36.539	45.233	2.118	79.3	-1.96	0.045	6.60	0.958	1192.0
1400	3.296	34.584	2.15	3.193	27.535	36.674	45.407	2.259	98.0	-4.10	0.137	14.54	1.421	1389.8
1600	2.752	34.604	2.30	2.639	27.601	36.770	45.530	2.381	116.7	-1.65	0.075	6.14	0.924	1587.3
1739	2.519	34.616	2.43	2.397	27.632	36.814	45.585	2.460	130.2	-1.68	0.083	6.14	0.000	1724.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.759	28.761	21.491	29.718	37.595	34.126	34.123	4.78	1.21	0.11	9.10		1.616	0.840	1	222222522
23	21.4	28.718	28.712	21.504	29.733	37.611	34.124	34.121	4.80	1.21	0.11	9.10		1.673	0.857	21	222222522
22	48.0	28.717	28.705	21.506	29.735	37.613	34.123	34.122	4.94	1.31	0.12	9.10		1.746	0.842	47	222222522
21	72.4	28.407	28.389	21.765	29.999	37.882	34.329	34.135	4.78	1.31	0.12	9.10				71	222222555
20	96.2	27.004	26.983	22.488	30.751	38.662	34.684	34.664	4.78	1.31	0.19	9.20		1.687	0.896	95	222222522
19	121.9	23.349	23.324	23.568	31.927	39.927	34.640	34.693	3.89	4.23	0.46	13.10		2.051	0.964	121	222222522
18	148.3	19.951	19.924	24.600	33.055	41.146	34.760	34.760	3.49	7.76	0.75	17.70		1.405	0.741	147	222222522
17	170.4	17.159	17.130	25.235	33.781	41.958	34.676	34.700	3.22	11.59	1.00	21.70		1.406	0.687	169	222222522
16	195.9	15.189	15.159	25.643	34.258	42.499	34.618	34.616	3.10	14.61	1.20	24.80		1.289	0.690	194	222222522
15	245.8	11.264	11.233	26.354	35.120	43.503	34.512	34.509	2.08	28.71	1.93	35.80			0.336	244	222222552
14	299.1	9.996	9.961	26.594	35.413	43.845	34.533	34.530	1.54	35.56	2.25	40.70		0.350	0.179	297	222222522
13	397.5	8.882	8.839	26.801	35.668	44.145	34.562	34.574	1.26	41.00	2.50	44.30		0.092		394	222222525
12	497.7	8.002	7.951	26.946	35.852	44.366	34.573	34.568	1.50	45.64	2.54	45.30		0.042	0.025	494	222222522
11	749.6	6.260	6.191	27.159	36.149	44.740	34.533	34.530	1.63	65.48	2.74	47.80				744	222222555
10	899.5	5.339	5.262	27.278	36.313	44.946	34.538	34.535	1.78	79.08	2.79	48.50		-0.003		892	222222525
9	997.8	4.883	4.800	27.335	36.392	45.047	34.542	34.541	1.76	88.45	2.85	49.00		-0.008		989	222222525
8	1098.7	4.177	4.091	27.417	36.510	45.199	34.548	34.557	1.99	102.15	2.85	49.20		-0.017		1089	222222525
7	1199.9	4.044	3.951	27.443	36.543	45.238	34.562	34.559	1.98	105.07	2.85	49.10		-0.008	0.012	1189	222222522
6	1300.9	3.698	3.599	27.485	36.603	45.316	34.570	34.571	2.02	113.03	2.87	49.20		-0.007		1289	222222525
5	1403.0	3.234	3.132	27.543	36.686	45.421	34.586	34.584	2.16	122.20	2.86	48.90		0.018	-0.003	1390	222222522
3	1602.5	2.748	2.635	27.602	36.771	45.531	34.605	34.602	2.32	132.07	2.82	49.20		0.027		1587	222222525
2	1705.7	2.563	2.443	27.626	36.805	45.575	34.614	34.614	2.40	135.29	2.81	49.00			-0.001	1689	222222552
1	1743.9	2.517	2.395	27.632	36.813	45.585	34.616	34.614	2.45	135.50	2.79	48.90		0.002	0.003	1726	222222522

CRUISE: MW 893 STA: 39 DATE (D/M/Y): 18- 2-89 TIME: 0425 LAT: 9 11.81 N LONG: 141 37.10 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.23309E-04 1/S SOUND SPEED= 1496.5 M/S Depth= 3323 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.738	34.144	4.67	28.738	21.511	29.738	37.616	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.738	34.144	4.67	28.738	21.511	29.739	37.616	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.723	34.140	4.62	28.718	21.514	29.742	37.620	0.126	0.1	-0.74	0.068	6.78	0.967	20.0
30	28.716	34.141	4.63	28.709	21.518	29.746	37.625	0.189	0.3	-1.61	0.115	14.14	1.396	30.0
40	28.707	34.142	4.63	28.697	21.523	29.751	37.630	0.251	0.5	-0.35	0.302	7.80	1.037	40.0
50	28.708	34.145	4.61	28.696	21.525	29.754	37.632	0.314	0.8	-0.17	0.742	13.99	1.388	50.0
100	26.980	34.622	4.38	26.957	22.449	30.714	38.626	0.617	3.1	-108.92	12.359	990.79	11.683	100.0
125	23.413	34.773	3.72	23.387	23.651	32.006	40.003	0.737	4.5	-157.06	-4.238	967.09	11.542	125.0
150	20.553	34.730	3.36	20.525	24.418	32.855	40.930	0.833	5.8	-101.76	-0.921	565.18	8.824	150.0
200	15.771	34.644	2.86	15.740	25.534	34.128	42.349	0.982	8.5	-70.96	-2.044	341.90	6.863	199.8
250	12.785	34.545	2.43	12.751	26.090	34.796	43.122	1.096	11.0	-61.65	-1.441	257.72	5.958	249.6
300	10.366	34.538	1.62	10.330	26.535	35.338	43.755	1.182	13.5	-24.23	0.586	109.67	3.887	299.3
350	9.248	34.578	1.29	9.209	26.754	35.605	44.066	1.255	15.9	-15.25	0.198	62.62	2.937	349.0
400	8.831	34.576	1.31	8.788	26.820	35.689	44.168	1.321	18.4	-8.05	0.104	32.16	2.105	398.7
450	8.363	34.577	1.38	8.316	26.894	35.784	44.282	1.384	21.1	-6.87	-0.094	23.75	1.809	448.4
500	7.956	34.566	1.48	7.905	26.947	35.856	44.372	1.444	24.1	-5.40	-0.172	16.59	1.512	498.1
600	7.264	34.549	1.58	7.205	27.035	35.976	44.522	1.560	30.5	-5.61	-0.109	17.86	1.569	597.4
700	6.671	34.537	1.54	6.606	27.108	36.078	44.650	1.669	37.8	-6.08	-0.068	19.63	1.644	696.6
800	6.098	34.533	1.72	6.026	27.180	36.177	44.776	1.772	45.6	-8.23	0.040	27.78	1.956	795.8
900	5.238	34.538	1.75	5.162	27.290	36.330	44.968	1.865	53.6	-5.50	0.054	18.68	1.604	894.9
1000	4.916	34.543	1.88	4.834	27.332	36.388	45.041	1.951	62.0	-4.79	0.067	16.06	1.488	994.0
1200	3.945	34.562	1.98	3.853	27.453	36.558	45.258	2.109	79.7	-4.89	0.120	17.00	1.530	1192.0
1400	3.232	34.585	2.14	3.130	27.542	36.684	45.420	2.245	97.7	-2.35	0.058	8.01	1.050	1389.7
1600	2.770	34.600	2.26	2.656	27.597	36.765	45.524	2.369	116.7	-2.16	0.112	8.42	1.077	1587.3
1800	2.399	34.620	2.45	2.274	27.645	36.833	45.611	2.483	136.4	-1.73	0.101	7.01	0.983	1784.7
2000	2.175	34.634	2.64	2.036	27.676	36.877	45.667	2.588	156.8	-1.17	0.054	4.54	0.791	1981.9
2200	2.030	34.642	2.73	1.876	27.695	36.904	45.703	2.689	178.4	-0.70	0.040	2.88	0.630	2178.9
2400	1.920	34.649	2.87	1.750	27.710	36.927	45.731	2.788	201.5	-0.56	0.034	2.40	0.575	2375.8
2600	1.879	34.653	2.94	1.692	27.717	36.937	45.745	2.885	226.3	-0.15	0.008	0.65	0.299	2572.4
2800	1.865	34.655	2.98	1.660	27.721	36.943	45.752	2.982	253.2	-0.19	0.010	0.83	0.338	2768.9
3000	1.857	34.656	3.00	1.633	27.725	36.948	45.758	3.081	282.3	-0.07	0.004	0.34	0.216	2965.2
3200	1.862	34.657	3.01	1.617	27.726	36.950	45.762	3.181	313.8	-0.05	0.004	0.27	0.192	3161.3
3327	1.873	34.657	3.03	1.616	27.727	36.951	45.762	3.245	335.1	0.00	-0.001	0.27	0.000	3285.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.737	28.737	21.488	29.716	37.594	34.113	34.109	4.60	1.41	0.11	9.00				1	222222555
23	67.8	28.535	28.518	21.675	29.907	37.788	34.267	34.263	4.52	1.41	0.14	9.00				67	222222555
22	97.4	27.271	27.249	22.323	30.581	38.487	34.578	34.568	4.41	1.81	0.21	9.20				96	222222555
21	120.8	24.093	24.068	23.444	31.780	39.760	34.763	34.832	4.00	3.32	0.37	11.60				120	222222555
20	147.3	20.560	20.533	24.407	32.844	40.919	34.718	34.732	3.39	7.56	0.74	17.30				146	222222555
19	172.0	16.098	16.070	25.458	34.041	42.251	34.644	34.661	3.02	14.00	1.14	23.80				170	222222555
18	196.6	15.067	15.037	25.675	34.295	42.540	34.625	34.624	2.84	16.72	1.31	26.40				195	222222555
17	247.2	11.603	11.571	26.310	35.062	43.432	34.536	34.522	2.12	28.11	1.91	35.20				245	222222555
16	297.6	9.731	9.697	26.665	35.495	43.937	34.567	34.555	1.45	36.47	2.32	41.40				295	222222555
15	396.0	8.826	8.783	26.820	35.689	44.168	34.575	34.572	1.34	41.81	2.50	44.10				393	222222555
14	597.8	7.317	7.259	27.030	35.968	44.512	34.551	34.547	1.53	52.99	2.64	46.50				593	222222555
13	747.9	6.249	6.181	27.160	36.149	44.741	34.532	34.530	1.66	65.98	2.75	47.80				742	222222555
12	899.5	5.262	5.186	27.288	36.326	44.963	34.539	34.536	1.74	81.60	2.83	48.90				892	222222555
11	1097.2	4.521	4.432	27.386	36.461	45.134	34.554	34.548	1.86	95.30	2.86	49.30				1088	222222555
10	1399.9	3.251	3.149	27.541	36.682	45.417	34.586	34.583	2.13	122.30	2.87	49.50				1387	222222555
9	1697.0	2.622	2.502	27.618	36.794	45.560	34.610	34.608	2.35	134.69	2.82	49.20				1680	222222555
8	1897.4	2.291	2.159	27.661	36.855	45.639	34.628	34.625	2.54	140.53	2.79	49.00				1878	222222555
7	2101.2	2.097	1.951	27.687	36.892	45.687	34.639	34.636	2.67	144.16	2.77	48.60				2078	222222555
6	2300.9	1.978	1.816	27.703	36.916	45.717	34.646	34.646	2.84	145.77	2.76	48.30				2275	222222555
5	2501.2	1.892	1.714	27.716	36.935	45.741	34.653	34.651	2.91	145.97	2.73	48.10				2472	222222555
4	2701.3	1.874	1.678	27.720	36.941	45.749	34.655	34.653	2.94	145.77	2.70	47.80				2668	222222555
3	2903.6	1.857	1.642	27.724	36.947	45.757	34.657	34.655	2.99	146.27	2.70	47.70				2867	222222555
2	3106.4	1.861	1.626	27.725	36.949	45.759	34.656	34.654	3.03	146.07	2.69	47.80				3066	222222555
1	3330.4	1.874	1.616	27.726	36.950	45.762	34.657	34.655	3.03	146.38	2.70	47.70				3285	222222555

CRUISE: MW 893 STA: 40 DATE (D/M/Y): 18- 2-89 TIME: 1028 LAT: 9 13.50 N LONG: 142 12.17 E

GRAVITY= 9.7816 M/S CORIOLIS= 0.23380E-04 1/S SOUND SPEED= 1493.0 M/S Depth= 2239 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.674	34.102	5.11	28.674	21.500	29.730	37.609	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.674	34.102	5.11	28.674	21.501	29.730	37.610	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.726	34.149	4.82	28.722	21.520	29.748	37.626	0.126	0.1	0.51	-0.159	-6.60	-0.952	20.0
30	28.730	34.152	4.83	28.723	21.522	29.750	37.627	0.188	0.3	-0.04	0.225	4.17	0.757	30.0
40	28.730	34.155	4.86	28.720	21.525	29.753	37.631	0.251	0.5	-0.32	0.382	9.00	1.112	40.0
50	28.729	34.156	4.84	28.717	21.527	29.755	37.633	0.314	0.8	-0.57	0.036	4.96	0.826	50.0
100	26.850	34.644	4.76	26.827	22.507	30.774	38.689	0.616	3.1	-74.08	6.420	650.05	9.449	100.0
125	25.103	34.656	4.25	25.076	23.060	31.371	39.327	0.744	4.6	-134.33	4.287	900.30	11.120	125.0
150	20.866	34.827	3.86	20.838	24.408	32.835	40.899	0.849	6.0	-113.94	2.937	751.44	10.159	150.0
200	15.135	34.617	4.05	15.104	25.654	34.271	42.514	0.991	8.5	-84.76	-5.794	327.47	6.706	199.8
250	11.129	34.518	1.95	11.098	26.383	35.155	43.543	1.093	10.8	-48.57	1.118	229.33	5.612	249.6
300	9.829	34.555	1.45	9.795	26.639	35.465	43.903	1.170	13.0	-20.27	0.665	92.60	3.566	299.3
350	9.037	34.577	1.23	8.999	26.787	35.647	44.117	1.239	15.3	-11.70	0.014	45.17	2.491	349.0
400	8.516	34.566	1.33	8.474	26.861	35.745	44.236	1.304	17.8	-10.05	-0.138	35.06	2.194	398.7
450	8.065	34.555	1.44	8.019	26.922	35.825	44.337	1.365	20.4	-9.23	-0.277	28.70	1.985	448.4
500	7.671	34.546	1.51	7.621	26.974	35.896	44.424	1.424	23.3	-3.85	0.039	14.50	1.411	498.0
600	7.284	34.546	1.50	7.225	27.030	35.970	44.515	1.539	29.7	-5.77	-0.115	18.14	1.579	597.3
700	6.672	34.533	1.58	6.606	27.105	36.074	44.647	1.648	37.0	-5.78	-0.022	19.50	1.636	696.6
800	6.100	34.531	1.64	6.028	27.179	36.176	44.774	1.751	44.8	-7.93	-0.005	26.45	1.906	795.8
900	5.285	34.538	1.77	5.208	27.285	36.322	44.958	1.845	53.0	-7.20	0.064	24.58	1.837	894.9
1000	4.796	34.545	1.85	4.714	27.347	36.409	45.068	1.932	61.4	-5.88	0.111	20.39	1.674	994.0
1200	3.872	34.569	2.03	3.780	27.466	36.575	45.278	2.086	78.6	-3.52	0.113	12.70	1.321	1191.9
1400	3.275	34.584	2.14	3.173	27.537	36.678	45.411	2.223	96.8	-3.10	0.080	10.73	1.214	1389.7
1600	2.818	34.603	2.30	2.703	27.595	36.760	45.516	2.347	115.8	-2.30	0.088	8.42	1.075	1587.3
1800	2.462	34.619	2.44	2.336	27.639	36.824	45.599	2.461	135.5	-1.16	0.060	4.56	0.791	1784.7
2000	2.252	34.629	2.56	2.112	27.665	36.862	45.648	2.569	156.3	-0.75	0.038	2.95	0.636	1981.9
2200	1.987	34.644	2.76	1.834	27.699	36.912	45.712	2.671	178.3	-1.61	0.085	2.95	0.000	2178.9
2241	1.963	34.645	2.75	1.806	27.702	36.916	45.718	2.692	182.9	-1.38	0.071	2.95	0.000	2219.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	21.9	28.724	28.718	21.524	29.752	37.630	34.153	34.155	4.81	1.51	0.11	-0.15	0.15	1.704	0.860	21	222222222
23	47.5	28.717	28.705	21.531	29.759	37.637	34.156	34.154	4.86	1.51	0.11	-0.14	0.14	1.577	0.838	47	222222222
22	71.7	28.199	28.182	21.883	30.121	38.008	34.395	34.350	4.81	1.71	0.16	-0.14	0.14		0.854	71	222222252
21	96.2	26.257	26.235	22.692	30.974	38.903	34.642	34.638	4.51	2.52	0.25	0.28	0.22	1.611	0.825	95	222222222
20	122.0	24.482	24.456	23.273	31.600	39.571	34.690	34.679	4.03	3.22	0.36	1.68	0.42	1.588	0.854	121	222222222
19	149.4	21.413	21.385	24.198	32.610	40.660	34.748	34.774	3.76	5.14	0.55	4.89	0.21		0.818	148	222222252
18	172.2	17.684	17.655	25.222	33.749	41.907	34.824	34.824	4.13	5.54	0.57	6.33	0.17			171	222222255
17	196.9	15.049	15.019	25.696	34.316	42.561	34.647	34.622	4.21	9.27	0.79	10.07	0.13	1.889	0.975	195	222222222
16	247.0	11.159	11.128	26.374	35.145	43.531	34.514	34.511	2.03	28.91	1.97	27.07	0.13			245	222222255
15	296.9	9.774	9.740	26.649	35.477	43.918	34.556	34.556	2.05	37.27	2.36	32.77	0.13	0.297	0.130	295	222222222
14	397.9	8.600	8.558	26.851	35.730	44.218	34.569	34.565	1.36	43.62	2.53	35.37	0.13			395	222222255
13	497.7	7.688	7.639	26.969	35.890	44.418	34.544	34.543	1.53	50.37	2.59	36.37	0.13	0.036		494	222222225
12	595.0	7.332	7.274	27.019	35.957	44.500	34.541	34.544	1.49	53.80	2.68	37.47	0.13	0.015		590	222222225
11	697.0	6.667	6.601	27.106	36.076	44.648	34.534	34.532	1.59	61.05	2.75	38.17	0.13			691	222222255
10	797.5	6.056	5.984	27.185	36.184	44.785	34.532	34.532	1.67	68.70	2.78	38.87	0.13	0.026	0.011	791	222222222
9	898.8	5.273	5.196	27.286	36.323	44.960	34.537	34.538	1.75	81.50	2.83	39.67	0.13	-0.003	0.009	891	222222222
8	998.5	4.828	4.746	27.343	36.403	45.060	34.544	34.545	1.90	89.36	2.84	39.97	0.13	-0.008	0.009	990	222222222
7	1199.8	4.016	3.923	27.449	36.551	45.248	34.567	34.563	2.01	105.58	2.86	40.17	0.13	-0.014		1189	222222225
6	1398.4	3.263	3.161	27.540	36.681	45.414	34.586	34.585	2.18	122.00	2.85	40.27	0.13	0.003	-0.001	1385	222222222
5	1600.7	2.801	2.687	27.597	36.763	45.520	34.604	34.603	2.32	131.57	2.84	39.97	0.13	0.008		1585	222222225
4	1802.2	2.451	2.325	27.640	36.826	45.601	34.619	34.620	2.48	138.32	2.82	39.97	0.13	0.012		1784	222222225
3	2002.7	2.252	2.112	27.665	36.862	45.649	34.629	34.628	2.57	142.24	2.78	39.77	0.13	0.011		1981	222222225
2	2206.5	1.981	1.827	27.699	36.912	45.712	34.643	34.645	2.73	146.78	2.76	39.17	0.13	0.010	-0.007	2182	222222222
1	2245.6	1.961	1.804	27.702	36.916	45.718	34.644	34.645	2.79	146.98	2.75	39.16	0.14	-0.004	-0.009	2221	222222222

CRUISE: MW 893 STA: 41 DATE (D/M/Y): 18- 2-89 TIME: 1613 LAT: 9 17.02 N LONG: 142 50.38 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.23528E-04 1/S SOUND SPEED= 1498.8 M/S Depth= 3856 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.719	34.260	5.58	28.719	21.604	29.831	37.708	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.719	34.260	5.58	28.719	21.604	29.831	37.708	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.739	34.252	5.05	28.734	21.593	29.820	37.696	0.124	0.1	0.20	0.096	0.10	0.116	20.0
30	28.743	34.252	5.06	28.736	21.593	29.819	37.696	0.186	0.3	-0.11	-0.139	-1.55	-0.460	30.0
40	28.746	34.252	5.09	28.736	21.593	29.819	37.696	0.248	0.5	0.25	0.216	1.82	0.499	40.0
50	28.757	34.258	5.06	28.745	21.594	29.820	37.697	0.311	0.8	0.66	0.348	0.96	0.362	50.0
100	25.693	34.702	4.65	25.671	22.912	31.208	39.149	0.608	3.0	-130.22	14.325	1177.60	12.678	100.0
125	23.062	35.014	4.47	23.036	23.935	32.297	40.300	0.719	4.3	-37.76	11.055	473.29	8.037	125.0
150	21.073	34.964	4.19	21.044	24.456	32.875	40.932	0.815	5.7	-162.32	-8.089	858.40	10.824	149.9
200	16.579	34.743	4.28	16.547	25.424	33.989	42.183	0.957	8.2	-52.96	-4.396	204.34	5.281	199.8
250	12.533	34.495	2.65	12.500	26.101	34.817	43.153	1.073	10.8	-77.49	-0.768	347.48	6.887	249.5
300	10.134	34.493	1.75	10.099	26.540	35.354	43.780	1.159	13.2	-29.19	-0.141	117.71	4.008	299.3
350	9.457	34.541	1.41	9.418	26.692	35.534	43.987	1.233	15.7	-11.07	0.922	60.13	2.865	349.0
400	8.811	34.566	1.36	8.768	26.815	35.685	44.165	1.300	18.2	-10.53	0.075	41.68	2.385	398.7
450	8.347	34.574	1.37	8.300	26.894	35.785	44.284	1.364	21.0	-7.60	0.073	29.74	2.015	448.4
500	8.005	34.565	1.48	7.954	26.940	35.846	44.360	1.425	24.0	-8.20	-0.143	27.61	1.941	498.0
600	7.198	34.546	1.51	7.139	27.042	35.986	44.535	1.540	30.4	-8.66	-0.220	26.57	1.904	597.3
700	6.375	34.531	1.54	6.311	27.142	36.125	44.711	1.646	37.5	-7.74	-0.020	25.81	1.877	696.6
800	5.631	34.532	1.61	5.562	27.237	36.257	44.877	1.743	44.9	-5.52	0.028	18.50	1.589	795.7
900	5.122	34.535	1.84	5.047	27.301	36.346	44.990	1.834	52.7	-5.35	0.073	18.16	1.574	894.9
1000	4.593	34.547	1.90	4.513	27.371	36.443	45.111	1.918	60.8	-4.69	0.073	15.81	1.469	993.9
1200	3.867	34.567	2.03	3.776	27.465	36.574	45.277	2.069	77.8	-3.36	0.096	11.85	1.272	1191.9
1400	3.202	34.586	2.17	3.100	27.546	36.690	45.427	2.204	95.7	-2.95	0.093	10.45	1.194	1389.7
1600	2.754	34.603	2.31	2.641	27.600	36.769	45.528	2.326	114.3	-1.56	0.073	5.96	0.902	1587.3
1800	2.450	34.618	2.45	2.324	27.640	36.825	45.601	2.440	133.9	-1.51	0.087	6.12	0.914	1784.7
2000	2.206	34.631	2.58	2.066	27.671	36.870	45.659	2.546	154.6	-0.99	0.047	3.87	0.727	1981.9
2200	2.036	34.641	2.70	1.882	27.693	36.903	45.701	2.648	176.4	-0.96	0.048	3.89	0.729	2178.9
2400	1.885	34.650	2.83	1.716	27.714	36.932	45.738	2.746	199.3	-0.67	0.039	2.87	0.625	2375.7
2600	1.780	34.657	2.94	1.595	27.728	36.953	45.766	2.841	223.6	-0.57	0.029	2.41	0.574	2572.4
2800	1.688	34.663	3.06	1.486	27.740	36.972	45.790	2.934	249.2	-0.41	0.022	1.78	0.493	2768.8
3000	1.622	34.668	3.16	1.402	27.750	36.986	45.809	3.025	276.3	-0.41	0.025	1.90	0.510	2965.1
3200	1.585	34.671	3.25	1.347	27.757	36.996	45.821	3.116	304.9	-0.22	0.014	1.03	0.374	3161.2
3400	1.553	34.674	3.32	1.295	27.764	37.005	45.833	3.206	335.3	-0.31	0.019	1.51	0.453	3357.1
3600	1.530	34.677	3.41	1.253	27.769	37.013	45.843	3.296	367.5	-0.16	0.013	0.85	0.340	3552.9
3800	1.504	34.681	3.52	1.206	27.775	37.021	45.854	3.386	401.5	-0.28	0.018	0.85	0.000	3748.5
3867	1.491	34.682	3.55	1.186	27.777	37.025	45.858	3.417	413.3	-0.34	0.022	0.85	0.000	3814.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	28.750	28.748	21.594	29.820	37.696	34.259	34.260	4.61	1.11	0.20	9.20				6	222222555
23	95.0	25.674	25.653	22.901	31.197	39.140	34.680	34.682	4.35	2.32	0.32	9.90				94	222222555
22	125.7	23.319	23.294	23.869	32.223	40.220	35.025	35.024	4.23	2.22	0.35	10.90				124	222222555
21	157.7	18.951	18.923	24.955	33.440	41.559	34.887	34.877	4.05	4.63	0.59	14.80				156	222222555
20	187.8	16.583	16.552	25.425	33.990	42.183	34.745	34.744	4.24	6.35	0.68	16.70				186	222222555
19	207.2	14.836	14.805	25.707	34.335	42.588	34.601	34.600	3.87	11.08	0.99	21.00				205	222222555
18	247.5	11.585	11.554	26.305	35.058	43.428	34.525	34.525	2.09	27.90	1.98	35.40				245	222222555
17	296.9	9.717	9.683	26.625	35.456	43.899	34.512	34.501	1.56	36.57	2.34	40.80				295	222222555
16	395.9	8.606	8.564	26.843	35.722	44.210	34.560	34.564	1.35	43.32	2.56	44.40				393	222222555
15	495.6	7.870	7.820	26.960	35.872	44.392	34.566	34.564	1.42	48.25	2.65	45.70				492	222222555
14	595.8	7.247	7.189	27.038	35.980	44.527	34.550	34.548	1.46	54.30	2.74	46.80				591	222222555
13	797.8	5.824	5.753	27.213	36.223	44.834	34.530	34.530	1.54	73.14	2.84	48.80				791	222222555
12	997.6	4.794	4.712	27.346	36.408	45.067	34.544	34.542	1.82	90.57	2.82	49.10				989	222222555
11	1196.7	3.897	3.805	27.460	36.568	45.270	34.565	34.564	1.98	108.60	2.83	49.30				1186	222222555
10	1395.4	3.150	3.049	27.552	36.699	45.438	34.588	34.585	2.16	124.51	2.82	49.40				1382	222222555
9	1599.8	2.740	2.627	27.603	36.772	45.533	34.605	34.603	2.29	132.98	2.82	49.10				1584	222222555
8	1804.2	2.459	2.332	27.640	36.825	45.600	34.620	34.617	2.41	138.52	2.79	49.10				1786	222222555
7	2001.8	2.207	2.067	27.671	36.871	45.659	34.632	34.630	2.56	143.25	2.75	48.80				1981	222222555
6	2199.4	2.030	1.876	27.696	36.906	45.704	34.644	34.641	2.72	146.48	2.74	48.40				2175	222222555
5	2398.2	1.884	1.715	27.715	36.933	45.740	34.652	34.649	2.81	148.79	2.70	48.20				2371	222222555
4	2600.7	1.768	1.583	27.730	36.956	45.769	34.658	34.656	2.92	149.20	2.67	47.80				2570	222222555
3	2800.5	1.694	1.492	27.740	36.971	45.789	34.663	34.660	3.06	150.20	2.64	47.70				2766	222222555
2	3301.5	1.574	1.326	27.760	37.000	45.826	34.673	34.672	3.25	150.10	2.61	47.10				3257	222222555
1	3870.0	1.491	1.187	27.776	37.024	45.858	34.681	34.680	3.53	145.57	2.53	46.00				3813	222222555

CRUISE: MW 893 STA: 42 DATE (D/M/Y): 19- 2-89 TIME: 0023 LAT: 9 22.09 N LONG: 143 41.83 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.23740E-04 1/S SOUND SPEED= 1503.7 M/S Depth= 4716 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.562	34.078	4.56	28.562	21.520	29.752	37.634	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.562	34.078	4.56	28.562	21.520	29.752	37.634	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.534	34.071	4.79	28.529	21.525	29.758	37.641	0.126	0.1	-0.57	0.039	5.07	0.828	20.0
30	28.532	34.071	4.76	28.525	21.527	29.760	37.643	0.188	0.3	-0.02	-0.037	-0.48	-0.255	30.0
40	28.534	34.071	4.80	28.524	21.527	29.760	37.643	0.251	0.5	-0.26	-0.024	1.63	0.470	40.0
50	28.533	34.071	4.80	28.521	21.528	29.761	37.644	0.314	0.8	-0.18	0.118	3.40	0.678	50.0
100	27.818	34.414	4.80	27.795	22.023	30.269	38.165	0.622	3.1	-66.90	16.445	784.01	10.298	100.0
125	25.029	34.868	4.65	25.002	23.242	31.553	39.509	0.753	4.7	-141.70	10.019	1127.59	12.350	125.0
150	21.324	35.057	4.23	21.295	24.458	32.869	40.918	0.854	6.1	-74.91	0.960	472.29	7.993	150.0
200	15.863	34.668	4.21	15.832	25.531	34.121	42.339	1.005	8.7	-118.49	-9.369	464.57	7.927	199.8
250	11.333	34.484	2.16	11.301	26.319	35.083	43.463	1.111	11.1	-50.28	0.921	242.09	5.722	249.6
300	9.826	34.507	1.61	9.791	26.602	35.429	43.868	1.192	13.4	-25.72	0.893	121.16	4.048	299.3
350	9.025	34.572	1.25	8.987	26.785	35.646	44.116	1.263	15.8	-11.32	0.614	55.20	2.733	349.0
400	8.549	34.579	1.29	8.507	26.866	35.748	44.238	1.327	18.2	-11.37	-0.148	40.49	2.340	398.7
450	8.059	34.568	1.41	8.013	26.933	35.837	44.348	1.388	20.9	-9.55	-0.287	30.13	2.019	448.4
500	7.681	34.557	1.49	7.631	26.980	35.902	44.429	1.447	23.7	-5.67	-0.195	17.05	1.519	498.1
600	6.944	34.539	1.49	6.886	27.071	36.027	44.588	1.559	30.0	-6.61	-0.125	21.05	1.688	597.3
700	6.302	34.528	1.57	6.238	27.149	36.136	44.725	1.664	36.9	-6.34	0.050	22.22	1.734	696.6
800	5.658	34.531	1.61	5.588	27.233	36.252	44.870	1.761	44.4	-5.89	0.040	20.07	1.648	795.8
900	5.164	34.536	1.75	5.089	27.297	36.340	44.981	1.851	52.2	-5.05	0.094	17.79	1.551	894.9
1000	4.623	34.546	1.90	4.542	27.367	36.438	45.105	1.935	60.3	-4.64	0.074	15.77	1.461	994.0
1200	3.693	34.559	1.96	3.603	27.476	36.594	45.306	2.087	77.2	-3.65	0.138	13.58	1.355	1191.9
1400	3.095	34.581	2.09	2.995	27.551	36.701	45.443	2.220	94.9	-2.58	0.119	9.90	1.157	1389.7
1600	2.750	34.604	2.29	2.636	27.602	36.771	45.530	2.341	113.4	-1.80	0.082	6.86	0.963	1587.3
1800	2.424	34.620	2.44	2.298	27.643	36.830	45.607	2.454	132.9	-1.54	0.064	5.81	0.887	1784.7
2000	2.142	34.634	2.61	2.004	27.678	36.881	45.672	2.559	153.4	-1.06	0.062	4.40	0.772	1981.9
2200	1.998	34.643	2.73	1.844	27.698	36.910	45.709	2.659	174.8	-0.79	0.051	3.40	0.679	2178.9
2400	1.848	34.652	2.85	1.679	27.717	36.938	45.746	2.756	197.6	-0.76	0.034	3.09	0.646	2375.7
2600	1.749	34.658	2.96	1.564	27.731	36.958	45.772	2.851	221.6	-0.63	0.033	2.70	0.604	2572.4
2800	1.655	34.664	3.09	1.453	27.744	36.977	45.797	2.942	246.8	-0.47	0.029	2.13	0.536	2768.8
3000	1.587	34.670	3.20	1.368	27.755	36.992	45.816	3.032	273.4	-0.33	0.021	1.55	0.457	2965.1
3200	1.541	34.674	3.30	1.304	27.762	37.004	45.831	3.121	301.6	-0.33	0.023	1.61	0.467	3161.2
3400	1.517	34.677	3.39	1.261	27.768	37.012	45.841	3.210	331.4	-0.12	0.007	0.56	0.275	3357.1
3600	1.515	34.678	3.43	1.238	27.771	37.015	45.846	3.299	363.3	-0.12	0.008	0.59	0.282	3552.9
3800	1.514	34.680	3.48	1.216	27.773	37.019	45.852	3.389	397.2	-0.10	0.006	0.49	0.259	3748.5
4000	1.508	34.682	3.54	1.189	27.777	37.024	45.858	3.480	433.4	-0.18	0.013	0.95	0.358	3943.9
4200	1.491	34.685	3.64	1.151	27.782	37.031	45.867	3.571	471.4	-0.17	0.010	0.87	0.343	4139.1
4400	1.472	34.687	3.73	1.109	27.787	37.039	45.876	3.662	511.5	-0.32	0.022	1.75	0.486	4334.2
4600	1.453	34.691	3.85	1.068	27.792	37.046	45.886	3.753	553.3	-0.16	0.013	0.94	0.357	4529.1
4721	1.454	34.692	3.91	1.054	27.794	37.049	45.890	3.809	579.5	-0.15	0.014	0.94	0.000	4646.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.606	28.606	21.503	29.734	37.616	34.075	34.073	4.86	1.31	0.10	9.10		1.637	0.857	1	222222522
23	21.7	28.546	28.540	21.524	29.757	37.639	34.074	34.073	4.84	1.31	0.10	9.10		1.645	0.858	21	222222522
22	50.0	28.334	28.322	21.691	29.927	37.813	34.201	34.197	4.83	1.31	0.12	9.10		1.741	0.881	49	222222522
21	69.1	28.265	28.248	21.730	29.968	37.856	34.221	34.221	4.85	1.41	0.12	9.10		1.635	0.826	68	222222522
20	95.3	26.683	26.661	22.605	30.876	38.794	34.705	34.648	4.89	1.61	0.17	9.10		1.692	0.887	94	222222522
19	122.2	24.139	24.114	23.551	31.884	39.861	34.923	34.953	4.43	2.01	0.24	9.60		2.225	0.942	121	222222522
18	145.4	20.997	20.970	24.551	32.971	41.030	35.063	35.043	4.28	3.02	0.33	11.70		1.873	0.960	144	222222522
17	170.5	18.331	18.302	25.173	33.677	41.814	34.967	34.981	4.10	3.73	0.42	13.30		1.904	1.005	169	222222522
16	195.6	15.142	15.112	25.369	33.990	42.237	34.249	34.651	4.22	8.36	0.74	18.30		1.924	0.927	194	222222522
15	247.6	11.666	11.634	26.256	35.006	43.374	34.481	34.479	2.38	25.79	1.81	33.50			0.395	246	222222552
14	297.0	9.901	9.867	26.583	35.407	43.843	34.499	34.496	1.62	36.47	2.27	40.50		0.350	0.198	295	222222522
13	498.6	7.739	7.689	26.976	35.894	44.419	34.562	34.559	1.44	49.56	2.60	45.90		0.027		495	222222525
12	743.5	5.919	5.853	27.198	36.204	44.810	34.528	34.528	1.52	72.13	2.85	49.00		0.000	0.010	737	222222552
11	997.6	4.565	4.485	27.377	36.451	45.120	34.551	34.547	1.88	95.60	2.87	49.40			0.010	989	222222552
10	1246.9	3.514	3.422	27.505	36.633	45.354	34.574	34.572	2.11	117.97	2.86	49.60		0.008	0.012	1236	222222522
9	1498.3	2.889	2.783	27.585	36.746	45.498	34.599	34.599	2.25	130.86	2.85	49.90		-0.006		1484	222222525
8	1999.7	2.131	1.993	27.679	36.883	45.675	34.634	34.634	2.61	145.87	2.80	49.10		-0.010	0.013	1978	222222522
7	2500.2	1.807	1.630	27.724	36.948	45.758	34.656	34.655	2.91	150.71	2.72	48.30		0.007	0.010	2471	222222522
6	3000.4	1.597	1.378	27.754	36.991	45.814	34.669	34.668	3.19	152.02	2.67	47.70		-0.005	0.000	2962	222222525
5	3503.6	1.519	1.252	27.770	37.014	45.844	34.678	34.677	3.42	149.60	2.59	47.00		0.008	-0.002	3455	222222522
4	3905.5	1.513	1.204	27.776	37.022	45.855	34.682	34.680	3.49	147.48	2.55	46.50		0.008	0.004	3848	222222522
3	4205.5	1.492	1.151	27.782	37.032	45.867	34.685	34.684	3.63	145.67	2.53	46.20		0.002	0.009	4140	222222522
2	4507.9	1.459	1.085	27.790	37.043	45.882	34.689	34.690	3.81	142.24	2.47	45.50		-0.002	0.000	4435	222222525
1	4721.2	1.453	1.054	27.794	37.049	45.889	34.691	34.692	3.91	139.63	2.46	45.20				4643	222222555

CRUISE: MW 893 STA: 43 DATE (D/M/Y): 19- 2-89 TIME: 0907 LAT: 9 26.89 N LONG: 144 30.16 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.23941E-04 1/S SOUND SPEED= 1501.4 M/S Depth= 4389 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.653	34.067	3.74	28.653	21.481	29.712	37.592	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.653	34.067	3.74	28.653	21.481	29.712	37.592	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.610	34.063	4.67	28.605	21.494	29.726	37.607	0.126	0.1	-2.34	-0.241	13.86	1.363	20.0
30	28.572	34.061	4.78	28.565	21.506	29.738	37.621	0.189	0.3	-0.48	0.117	5.74	0.878	30.0
40	28.573	34.062	4.83	28.564	21.507	29.739	37.622	0.252	0.5	-0.25	0.114	3.95	0.728	40.0
50	28.573	34.064	4.84	28.561	21.509	29.741	37.624	0.315	0.8	-0.36	0.194	6.16	0.909	50.0
100	27.254	34.676	4.93	27.231	22.402	30.659	38.565	0.619	3.1	-75.55	15.961	844.45	10.643	100.0
125	24.877	34.902	4.61	24.850	23.314	31.629	39.588	0.745	4.6	-172.83	5.832	1278.23	13.094	125.0
150	19.695	34.897	3.99	19.668	24.771	33.233	41.330	0.840	5.9	-139.58	-4.111	805.07	10.392	150.0
200	14.461	34.567	3.59	14.432	25.762	34.404	42.670	0.973	8.2	-66.11	-4.032	263.48	5.945	199.8
250	11.791	34.494	2.23	11.759	26.242	34.988	43.351	1.075	10.6	-32.53	0.726	161.26	4.651	249.5
300	10.434	34.532	1.60	10.398	26.518	35.319	43.733	1.160	13.0	-33.39	-0.364	133.91	4.238	299.3
350	9.458	34.547	1.35	9.418	26.696	35.538	43.991	1.234	15.4	-10.78	1.033	62.12	2.886	349.0
400	9.013	34.578	1.23	8.970	26.793	35.654	44.125	1.302	18.0	-9.88	0.169	41.86	2.370	398.7
450	8.463	34.578	1.29	8.416	26.880	35.765	44.259	1.366	20.8	-8.14	-0.259	26.48	1.885	448.4
500	8.112	34.571	1.35	8.060	26.928	35.830	44.339	1.428	23.8	-10.54	-0.275	34.52	2.152	498.0
600	6.952	34.531	1.64	6.895	27.064	36.020	44.579	1.542	30.2	-8.09	-0.089	27.20	1.910	597.3
700	6.288	34.522	1.72	6.224	27.146	36.134	44.724	1.647	37.1	-5.82	-0.064	18.53	1.577	696.6
800	5.707	34.530	1.64	5.637	27.227	36.243	44.859	1.745	44.6	-5.97	0.095	21.60	1.702	795.7
900	5.160	34.539	1.77	5.084	27.300	36.344	44.985	1.835	52.4	-5.69	0.108	20.40	1.654	894.9
1000	4.639	34.545	1.85	4.558	27.364	36.434	45.100	1.919	60.6	-5.14	0.068	17.41	1.528	993.9
1200	3.743	34.566	2.03	3.652	27.477	36.592	45.302	2.070	77.4	-2.84	0.083	10.18	1.168	1191.9
1400	3.166	34.584	2.12	3.065	27.547	36.693	45.432	2.204	95.2	-3.02	0.117	11.24	1.228	1389.7
1600	2.648	34.609	2.32	2.536	27.614	36.789	45.553	2.324	113.6	-2.08	0.088	7.86	1.027	1587.3
1800	2.360	34.625	2.47	2.235	27.652	36.843	45.623	2.434	132.6	-1.14	0.046	4.31	0.761	1784.7
2000	2.190	34.635	2.61	2.051	27.675	36.875	45.664	2.539	152.9	-0.97	0.046	3.85	0.719	1981.9
2200	2.005	34.644	2.71	1.851	27.698	36.909	45.708	2.640	174.5	-0.88	0.039	3.52	0.687	2178.9
2400	1.859	34.652	2.83	1.691	27.717	36.937	45.744	2.737	197.2	-0.75	0.040	3.16	0.651	2375.7
2600	1.747	34.658	2.96	1.562	27.732	36.958	45.773	2.831	221.2	-0.65	0.033	2.77	0.610	2572.3
2800	1.661	34.664	3.06	1.460	27.744	36.976	45.796	2.923	246.5	-0.36	0.019	1.60	0.463	2768.8
3000	1.605	34.669	3.16	1.386	27.753	36.989	45.813	3.013	273.3	-0.39	0.026	1.85	0.499	2965.1
3200	1.569	34.672	3.24	1.331	27.759	36.999	45.825	3.103	301.7	-0.18	0.012	0.87	0.342	3161.2
3400	1.535	34.676	3.34	1.278	27.766	37.009	45.838	3.193	331.9	-0.26	0.018	1.32	0.420	3357.1
3600	1.512	34.678	3.42	1.236	27.771	37.016	45.847	3.282	363.8	-0.20	0.013	1.01	0.368	3552.9
3800	1.500	34.681	3.50	1.203	27.775	37.022	45.855	3.372	397.6	-0.16	0.011	0.84	0.336	3748.4
4000	1.480	34.684	3.58	1.162	27.781	37.030	45.865	3.462	433.4	-0.21	0.015	1.11	0.387	3943.9
4200	1.476	34.686	3.66	1.135	27.784	37.034	45.870	3.552	471.1	-0.19	0.012	1.03	0.371	4139.1
4351	1.449	34.689	3.76	1.093	27.789	37.042	45.881	3.620	500.8	-0.34	0.025	1.03	0.000	4286.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.603	28.604	21.501	29.733	37.614	34.071	34.070	4.86	1.01	0.10	0.10	0.00			1	222222255
23	46.8	28.576	28.564	21.511	29.744	37.626	34.068	34.068	4.85	1.01	0.10	0.10	0.00			46	222222255
22	73.1	28.320	28.302	21.727	29.964	37.850	34.241	34.213	5.29	1.01	0.13	0.09	0.01			72	222222255
21	122.4	25.454	25.427	23.111	31.410	39.356	34.865	34.856	4.60	1.21	0.19	0.19	0.01			121	222222255
20	171.6	18.483	18.454	25.033	33.534	41.667	34.834	34.858	3.90	5.04	0.60	6.49	0.01			170	222222255
19	246.7	11.708	11.676	26.263	35.011	43.377	34.500	34.489	2.30	24.78	1.80	24.49	0.01			245	222222255
18	296.9	9.978	9.944	26.615	35.434	43.867	34.556	34.529	1.49	34.55	2.26	31.59	0.01			295	222222255
17	414.4	8.619	8.575	26.864	35.742	44.230	34.589	34.582	1.25	42.31	2.54	35.89	0.01			411	222222255
16	497.7	7.861	7.811	26.963	35.876	44.396	34.568	34.563	1.38	48.15	2.60	36.89	0.01			494	222222255
15	696.8	6.258	6.194	27.150	36.139	44.730	34.522	34.519	1.72	65.98	2.72	38.49	0.01			691	222222255
14	795.7	5.688	5.618	27.229	36.246	44.863	34.530	34.526	1.64	75.05	2.80	39.59	0.01			789	222222255
13	897.4	5.173	5.097	27.296	36.338	44.979	34.535	34.534	1.78	83.21	2.83	39.80	0.00			890	222222255
12	1096.8	4.173	4.088	27.424	36.518	45.206	34.556	34.553	1.92	103.16	2.85	40.41	-0.01			1087	222222255
11	1247.5	3.601	3.508	27.494	36.617	45.334	34.570	34.570	2.04	115.65	2.86	40.51	-0.01			1236	222222255
10	1496.2	2.886	2.780	27.586	36.747	45.499	34.600	34.599	2.25	129.55	2.85	40.51	-0.01			1482	222222255
9	1750.1	2.418	2.296	27.645	36.832	45.609	34.622	34.621	2.46	138.11	2.82	40.01	-0.01			1732	222222255
8	1998.8	2.146	2.007	27.682	36.884	45.675	34.639	34.637	2.63	143.45	2.77	39.81	-0.01			1978	222222255
7	2500.3	1.783	1.607	27.727	36.951	45.763	34.657	34.656	2.99	149.70	2.72	48.10				2471	222222555
6	3002.8	1.607	1.388	27.753	36.990	45.813	34.670	34.668	3.16	150.91	2.64	38.42	-0.02			2964	222222255
5	3502.3	1.520	1.253	27.769	37.013	45.843	34.678	34.678	3.40	149.10	2.59	37.80	0.00			3453	222222255
4	3751.8	1.500	1.208	27.775	37.021	45.854	34.681	34.680	3.49	147.28	2.57	37.51	-0.01			3697	222222255
3	4005.2	1.478	1.159	27.781	37.030	45.865	34.684	34.684	3.60	145.27	2.54	37.13	-0.03			3945	222222255
2	4206.8	1.474	1.133	27.784	37.034	45.871	34.685	34.686	3.69	144.36	2.52		-0.03			4142	222225255
1	4354.6	1.448	1.091	27.789	37.042	45.880	34.688	34.690	3.69	144.16	2.53	36.82	-0.02			4286	222222255

CRUISE: MW 893 STA: 44 DATE (D/M/Y): 19-. 2-89 TIME: 1734 LAT: 9 29.51 N LONG: 145 19.71 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24050E-04 1/S SOUND SPEED= 1500.7 M/S Depth= 4181 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.384	34.129	4.15	28.384	21.616	29.852	37.738	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.384	34.129	4.15	28.384	21.616	29.852	37.738	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.403	34.131	4.70	28.398	21.613	29.849	37.734	0.124	0.1	-0.01	0.081	1.54	0.454	20.0
30	28.405	34.131	4.74	28.398	21.613	29.849	37.734	0.186	0.3	0.20	-0.018	-1.84	-0.496	30.0
40	28.408	34.131	4.75	28.399	21.613	29.849	37.734	0.248	0.5	0.08	-0.013	-0.83	-0.333	40.0
50	28.410	34.131	4.83	28.398	21.613	29.849	37.734	0.310	0.8	-0.27	0.010	2.25	0.549	50.0
100	27.086	34.578	4.75	27.063	22.382	30.644	38.555	0.614	3.1	-106.13	17.458	1094.76	12.090	100.0
125	23.520	34.949	4.38	23.494	23.753	32.103	40.095	0.735	4.5	-156.53	6.908	1201.55	12.666	125.0
150	20.334	34.962	4.12	20.306	24.653	33.094	41.172	0.828	5.8	-129.07	-4.529	682.65	9.547	149.9
200	15.014	34.601	3.93	14.983	25.669	34.290	42.537	0.964	8.2	-79.90	-6.563	294.66	6.272	199.8
250	11.524	34.499	2.14	11.493	26.296	35.052	43.425	1.067	10.6	-41.72	2.402	231.78	5.563	249.5
300	10.227	34.560	1.43	10.192	26.576	35.384	43.807	1.149	12.8	-16.58	0.871	85.56	3.380	299.3
350	9.465	34.590	1.22	9.426	26.729	35.570	44.022	1.221	15.2	-12.41	0.179	53.58	2.675	349.0
400	8.880	34.592	1.23	8.836	26.825	35.692	44.168	1.289	17.8	-13.53	-0.158	50.11	2.587	398.7
450	8.409	34.584	1.29	8.362	26.893	35.780	44.277	1.352	20.5	-6.41	-0.063	23.33	1.765	448.4
500	7.848	34.566	1.36	7.798	26.964	35.877	44.398	1.412	23.5	-8.58	-0.198	28.20	1.940	498.0
600	7.027	34.544	1.51	6.969	27.064	36.016	44.573	1.525	29.8	-8.63	-0.183	27.52	1.917	597.3
700	6.323	34.532	1.59	6.259	27.150	36.135	44.724	1.630	36.8	-6.22	-0.034	21.01	1.675	696.5
800	5.844	34.534	1.63	5.774	27.213	36.222	44.832	1.729	44.3	-5.13	0.016	17.54	1.530	795.7
900	5.266	34.539	1.72	5.190	27.288	36.325	44.962	1.821	52.3	-5.80	0.065	20.31	1.647	894.8
1000	4.833	34.545	1.82	4.751	27.343	36.403	45.060	1.907	60.6	-3.83	0.067	13.37	1.336	993.9
1200	3.910	34.566	2.00	3.818	27.460	36.567	45.268	2.064	78.2	-4.07	0.106	14.71	1.402	1191.9
1400	3.287	34.587	2.13	3.184	27.538	36.678	45.411	2.202	96.4	-3.07	0.105	11.35	1.231	1389.7
1600	2.847	34.604	2.23	2.732	27.593	36.757	45.512	2.326	115.4	-1.98	0.072	7.41	0.995	1587.3
1800	2.544	34.615	2.36	2.417	27.629	36.810	45.581	2.441	135.4	-1.50	0.070	5.94	0.891	1784.7
2000	2.268	34.630	2.48	2.128	27.665	36.861	45.647	2.550	156.4	-1.37	0.063	5.46	0.854	1981.9
2200	2.049	34.641	2.66	1.894	27.692	36.901	45.698	2.652	178.3	-1.02	0.048	4.16	0.745	2178.9
2400	1.890	34.650	2.80	1.721	27.713	36.931	45.737	2.750	201.4	-0.72	0.037	3.06	0.639	2375.7
2600	1.759	34.658	2.92	1.575	27.730	36.956	45.770	2.845	225.6	-0.81	0.045	3.57	0.691	2572.3
2800	1.665	34.664	3.06	1.463	27.743	36.976	45.795	2.937	250.9	-0.41	0.025	1.86	0.499	2768.8
3000	1.605	34.669	3.17	1.385	27.753	36.989	45.813	3.028	277.7	-0.35	0.020	1.62	0.466	2965.1
3200	1.571	34.672	3.25	1.333	27.759	36.999	45.825	3.118	306.1	-0.25	0.014	1.17	0.395	3161.2
3400	1.542	34.675	3.33	1.285	27.765	37.007	45.836	3.207	336.3	-0.24	0.015	1.18	0.398	3357.1
3600	1.522	34.678	3.41	1.245	27.770	37.014	45.845	3.297	368.3	-0.20	0.013	1.00	0.365	3552.9
3800	1.502	34.681	3.50	1.204	27.775	37.022	45.855	3.387	402.2	-0.15	0.010	0.78	0.322	3748.5
4000	1.497	34.683	3.57	1.178	27.778	37.027	45.861	3.477	438.1	-0.17	0.012	0.89	0.345	3943.9
4191	1.459	34.687	3.70	1.121	27.786	37.037	45.874	3.563	474.2	-0.40	0.029	0.89	0.000	4130.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	20.6	28.388	28.383	21.625	29.861	37.747	34.140	34.139	4.74	1.41	0.11	9.10		1.678	0.852	20	222222522
23	46.5	28.395	28.383	21.625	29.861	37.746	34.140	34.140	4.63	1.41	0.11	9.10		1.818	0.926	46	222222522
22	72.3	28.298	28.280	21.693	29.931	37.818	34.186	34.181	4.73	1.41	0.13	9.10			0.874	71	222222552
21	96.5	26.726	26.704	22.558	30.829	38.746	34.661	34.599	4.68	1.61	0.19	9.10		1.722		95	222222525
20	121.8	22.905	22.881	23.993	32.358	40.366	35.031	34.938	4.40	2.01	0.26	9.30		1.783	0.941	121	222222522
19	197.3	15.365	15.334	25.613	34.222	42.456	34.629	34.644	4.08	8.87	0.79	18.80		2.091	0.942	196	222222522
18	247.0	11.491	11.460	26.305	35.062	43.436	34.503	34.493	2.14							245	222555555
17	297.1	10.247	10.212	26.575	35.383	43.805	34.564	34.549	1.49	33.55	2.23	40.20		0.369	0.226	295	222222522
16	397.8	8.823	8.780	26.835	35.704	44.183	34.594	34.586	1.27	41.71	2.53	44.80				395	222222555
15	495.7	7.827	7.777	26.968	35.883	44.404	34.569	34.564	1.37	48.25	2.61	46.00		0.085	0.041	492	222222522
14	611.0	6.953	6.895	27.075	36.030	44.590	34.545	34.544	1.50							606	222555555
13	747.1	6.049	5.982	27.191	36.190	44.790	34.539	34.532	1.59	69.21	2.78	48.40		0.014	0.020	741	222222522
12	864.8	5.452	5.377	27.264	36.293	44.921	34.537	34.536	1.71	78.27	2.80	48.80		0.003		858	222222525
11	997.0	4.819	4.737	27.345	36.406	45.064	34.546	34.544	1.80	89.96	2.84	49.30				989	222222555
10	1498.4	3.003	2.895	27.577	36.732	45.479	34.603	34.595	2.20							1484	222555555
9	2000.3	2.273	2.132	27.664	36.860	45.645	34.630	34.629	2.50	142.75	2.80	49.10		0.020	0.026	1979	222222522
8	2250.8	1.993	1.835	27.702	36.914	45.714	34.647	34.642	2.72	147.28	2.73	48.60		-0.001	-0.002	2226	222222522
7	2501.2	1.827	1.650	27.721	36.943	45.753	34.654	34.653	2.88	150.00	2.70	48.30		-0.011	0.001	2472	222222522
6	2751.2	1.685	1.488	27.741	36.972	45.790	34.664	34.663	3.06	151.11	2.65	47.80				2717	222222555
5	3001.9	1.607	1.388	27.754	36.990	45.813	34.670	34.668	3.18	150.91	2.62	47.40		0.012	0.005	2963	222222522
4	3301.2	1.556	1.309	27.763	37.004	45.831	34.675	34.673	3.30	149.60	2.60	47.00		0.008	0.005	3257	222222522
3	3603.8	1.521	1.244	27.771	37.015	45.846	34.679	34.677	3.43	147.99	2.56	46.60		0.001	-0.002	3553	222222522
2	3904.8	1.498	1.190	27.777	37.024	45.858	34.682	34.683	3.50	146.27	2.52	46.20				3847	222222555
1	4191.6	1.459	1.120	27.786	37.037	45.874	34.687	34.687	3.69					-0.007	-0.002	4127	222555522

CRUISE: MW 893 STA: 45 DATE (D/M/Y): 19- 2-89 TIME: 2347 LAT: 9 29.88 N LONG: 145 50.01 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24066E-04 1/S SOUND SPEED= 1495.4 M/S Depth= 3190 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.404	34.123	4.11	28.404	21.605	29.841	37.726	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.404	34.123	4.11	28.404	21.605	29.841	37.726	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.409	34.118	4.77	28.405	21.602	29.837	37.722	0.124	0.1	-0.93	-0.015	6.93	0.962	20.0
30	28.404	34.118	4.68	28.397	21.604	29.840	37.725	0.186	0.3	-0.21	-0.043	0.88	0.343	30.0
40	28.405	34.118	4.63	28.396	21.604	29.840	37.725	0.248	0.5	-0.03	-0.010	0.02	0.049	40.0
50	28.407	34.119	4.69	28.395	21.605	29.841	37.726	0.310	0.8	-0.07	0.093	2.22	0.545	50.0
100	26.364	34.682	4.68	26.341	22.689	30.968	38.893	0.606	3.0	-129.96	10.716	1127.05	12.263	100.0
125	21.788	34.801	4.01	21.763	24.134	32.534	40.574	0.719	4.3	-189.96	-1.480	1251.41	12.922	125.0
150	18.385	34.842	3.86	18.359	25.064	33.567	41.703	0.802	5.5	-70.44	1.338	474.53	7.957	149.9
200	14.875	34.597	4.18	14.845	25.696	34.323	42.574	0.935	7.8	-65.03	-5.412	245.19	5.720	199.7
250	12.253	34.428	3.95	12.220	26.104	34.832	43.178	1.043	10.3	-40.41	-1.391	161.22	4.638	249.5
300	10.039	34.512	1.56	10.005	26.571	35.388	43.819	1.130	12.7	-19.54	2.211	122.87	4.049	299.2
350	9.150	34.575	1.22	9.111	26.768	35.623	44.088	1.202	15.1	-12.68	0.486	59.42	2.816	349.0
400	8.683	34.578	1.25	8.641	26.844	35.720	44.205	1.267	17.6	-8.55	0.101	35.01	2.161	398.7
450	8.331	34.581	1.31	8.284	26.902	35.794	44.293	1.330	20.3	-6.63	-0.226	21.10	1.678	448.3
500	7.973	34.568	1.39	7.922	26.947	35.855	44.370	1.390	23.3	-7.32	-0.210	23.60	1.774	498.0
600	7.357	34.551	1.49	7.297	27.024	35.961	44.503	1.506	29.7	-6.71	-0.175	21.16	1.680	597.3
700	6.559	34.538	1.55	6.494	27.123	36.098	44.675	1.614	36.9	-7.79	-0.051	25.85	1.857	696.5
800	5.821	34.536	1.60	5.751	27.218	36.228	44.839	1.714	44.5	-5.87	0.020	20.20	1.642	795.7
900	5.287	34.540	1.72	5.131	27.296	36.337	44.976	1.805	52.4	-5.86	0.088	20.87	1.669	894.8
1000	4.721	34.549	1.79	4.640	27.359	36.424	45.086	1.890	60.7	-4.86	0.088	17.24	1.517	993.9
1200	3.889	34.568	1.97	3.797	27.463	36.571	45.274	2.045	78.0	-3.60	0.105	13.13	1.324	1191.9
1400	3.296	34.586	2.11	3.194	27.537	36.676	45.408	2.182	96.1	-3.42	0.088	12.09	1.270	1389.7
1600	2.778	34.602	2.25	2.665	27.598	36.765	45.523	2.305	114.9	-1.87	0.095	7.44	0.997	1587.3
1800	2.469	34.620	2.39	2.342	27.640	36.824	45.599	2.418	134.6	-1.46	0.062	5.66	0.869	1784.6
2000	2.239	34.631	2.52	2.099	27.668	36.866	45.653	2.525	155.3	-0.99	0.052	4.06	0.736	1981.8
2200	2.018	34.644	2.65	1.864	27.697	36.908	45.706	2.627	177.1	-1.08	0.055	4.48	0.774	2178.9
2400	1.899	34.651	2.78	1.729	27.713	36.931	45.736	2.725	200.0	-0.73	0.032	2.98	0.631	2375.7
2600	1.794	34.657	2.91	1.608	27.727	36.951	45.763	2.820	224.2	-0.32	0.017	1.40	0.431	2572.3
2800	1.720	34.661	3.00	1.518	27.737	36.966	45.783	2.914	250.1	-0.68	0.034	3.00	0.633	2768.8
3000	1.649	34.667	3.13	1.429	27.748	36.982	45.803	3.006	277.4	-0.35	0.020	1.60	0.462	2965.1
3177	1.591	34.672	3.23	1.355	27.757	36.995	45.820	3.087	302.8	-0.53	0.034	1.60	0.000	3138.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.433	28.433	21.592	29.827	37.711	34.117	34.116	4.83	1.41	0.11	9.10				1	222222555
23	49.3	28.416	28.404	21.601	29.836	37.722	34.117	34.116	4.83	1.41	0.11	9.10				49	222222555
22	73.8	28.416	28.398	21.605	29.840	37.726	34.120	34.117	4.83	1.51	0.11	9.10				73	222222555
21	98.9	26.559	26.536	22.598	30.873	38.794	34.643	34.668	4.89	1.71	0.21	9.10				98	222222555
20	148.8	18.938	18.911	24.889	33.375	41.496	34.796	34.797	3.79	5.74	0.64	15.60				147	222222555
19	200.1	14.574	14.544	25.747	34.385	42.647	34.579	34.593	4.25	9.77	0.78	19.30				198	222222555
18	296.7	10.016	9.982	26.577	35.396	43.827	34.516	34.510	1.56	35.46	2.28	40.70				294	222222555
17	367.8	9.035	8.995	26.789	35.649	44.119	34.578	34.573	1.21	40.80	2.51	44.20				365	222222555
16	397.4	8.702	8.660	26.841	35.716	44.200	34.577	34.575	1.27	42.41	2.53	44.70				394	222222555
15	447.2	8.398	8.351	26.892	35.780	44.277	34.581	34.578		43.92	2.58	45.30				444	225222555
14	496.9	7.964	7.913	26.947	35.855	44.370	34.567	34.568	1.41	46.84	2.58	45.70				493	222222555
13	596.5	7.387	7.329	27.021	35.956	44.497	34.553	34.549	1.49	52.59	2.65	46.50				592	222222555
12	697.7	6.569	6.503	27.122	36.096	44.673	34.538	34.534	1.51	62.26	2.75	47.80				692	222222555
11	798.0	5.842	5.771	27.215	36.224	44.834	34.535	34.534	1.59	72.63	2.81	48.80				791	222222555
10	897.6	5.229	5.153	27.293	36.333	44.972	34.541	34.538	1.71	82.41	2.84	49.20				890	222222555
9	997.0	4.710	4.629	27.360	36.425	45.088	34.549	34.547	1.82	91.37	2.86	49.30				989	222222555
8	1097.3	4.239	4.153	27.418	36.508	45.194	34.558	34.558	1.91	101.04	2.88	49.60				1088	222222555
7	1197.1	3.854	3.763	27.467	36.577	45.282	34.569	34.565	1.98	109.50	2.88	49.60				1186	222222555
6	1398.3	3.284	3.181	27.539	36.679	45.412	34.588	34.586	2.12	121.59	2.87	49.60				1385	222222555
5	1598.3	2.779	2.665	27.598	36.765	45.524	34.603	34.601	2.26	132.57	2.85	49.60				1583	222222555
4	1800.9	2.471	2.345	27.641	36.825	45.599	34.622	34.619	2.37	138.82	2.82	49.40				1783	222222555
3	2200.3	2.021	1.867	27.697	36.907	45.706	34.644	34.643	2.64	146.88	2.76	48.70				2176	222222555
2	2703.9	1.777	1.582	27.731	36.956	45.770	34.659	34.657	2.91	150.20	2.73	48.20				2671	222222555
1	3180.6	1.590	1.354	27.757	36.995	45.820	34.671	34.671	3.24	150.00	2.63	47.30				3139	222222555

CRUISE: MW 893 STA: 46 DATE (D/M/Y): 20- 2-89 TIME: 0516 LAT: 9 29.74 N LONG: 146 19.75 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24060E-04 1/S SOUND SPEED= 1500.6 M/S Depth= 4186 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.669	34.054	4.93	28.669	21.466	29.696	37.576	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.669	34.054	4.93	28.669	21.466	29.696	37.576	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.586	34.046	4.56	28.582	21.489	29.721	37.603	0.126	0.1	-3.93	-0.021	30.19	2.007	20.0
30	28.572	34.047	4.61	28.564	21.495	29.728	37.610	0.190	0.3	-0.78	0.031	6.64	0.941	30.0
40	28.567	34.047	4.62	28.557	21.498	29.730	37.613	0.253	0.5	-0.48	-0.025	3.27	0.661	40.0
50	28.564	34.047	4.59	28.552	21.499	29.732	37.615	0.316	0.8	-0.40	0.016	3.36	0.670	50.0
100	28.023	34.278	4.59	28.000	21.854	30.097	37.990	0.629	3.2	-80.99	18.155	928.82	11.134	100.1
125	24.908	34.792	4.49	24.881	23.222	31.537	39.496	0.761	4.7	-96.42	6.144	785.86	10.241	125.0
150	20.322	34.851	3.91	20.294	24.572	33.015	41.094	0.867	6.2	-228.18	-2.376	1482.03	14.064	150.0
200	13.508	34.486	3.93	13.480	25.898	34.577	42.877	1.001	8.5	-74.00	-5.485	272.85	6.035	199.8
250	10.855	34.397	2.90	10.824	26.338	35.123	43.523	1.100	10.8	-29.01	3.600	193.47	5.081	249.6
300	10.132	34.544	1.48	10.097	26.580	35.393	43.819	1.181	13.1	-27.10	0.628	124.49	4.076	299.3
350	9.295	34.574	1.18	9.256	26.744	35.592	44.052	1.252	15.4	-11.93	0.569	58.02	2.783	349.0
400	8.767	34.586	1.18	8.724	26.838	35.710	44.191	1.318	17.9	-9.36	0.007	36.47	2.206	398.7
450	8.341	34.583	1.26	8.294	26.902	35.793	44.292	1.380	20.6	-7.34	-0.180	24.66	1.814	448.4
500	7.945	34.571	1.33	7.893	26.953	35.862	44.378	1.441	23.6	-5.63	-0.160	18.15	1.557	498.1
600	7.046	34.542	1.45	6.989	27.060	36.011	44.567	1.555	30.0	-9.52	-0.298	28.79	1.960	597.3
700	6.311	34.529	1.52	6.247	27.149	36.135	44.724	1.660	36.9	-7.14	-0.015	24.49	1.808	696.6
800	5.722	34.534	1.57	5.652	27.228	36.243	44.859	1.758	44.4	-5.59	0.092	20.64	1.660	795.8
900	5.286	34.538	1.68	5.210	27.285	36.321	44.957	1.849	52.3	-4.03	0.095	15.03	1.416	894.9
1000	4.913	34.544	1.77	4.830	27.334	36.389	45.043	1.936	60.7	-3.29	0.047	11.55	1.241	994.0
1200	4.051	34.562	1.94	3.958	27.442	36.542	45.237	2.096	78.6	-4.11	0.093	14.63	1.397	1191.9
1400	3.316	34.583	2.08	3.213	27.533	36.671	45.402	2.236	97.2	-3.94	0.132	14.55	1.394	1389.7
1600	2.729	34.609	2.24	2.616	27.607	36.777	45.538	2.358	115.8	-2.23	0.115	8.93	1.092	1587.3
1800	2.435	34.622	2.36	2.309	27.644	36.830	45.606	2.470	135.2	-1.26	0.052	4.82	0.802	1784.7
2000	2.189	34.633	2.51	2.050	27.674	36.874	45.664	2.576	155.7	-1.13	0.055	4.56	0.780	1981.9
2200	2.023	34.643	2.62	1.869	27.696	36.906	45.705	2.677	177.3	-0.86	0.042	3.51	0.684	2178.9
2400	1.884	34.652	2.78	1.715	27.715	36.933	45.739	2.774	200.2	-0.65	0.033	2.75	0.606	2375.7
2600	1.758	34.659	2.92	1.573	27.731	36.957	45.771	2.869	224.3	-0.51	0.027	2.21	0.544	2572.4
2800	1.697	34.663	3.00	1.495	27.740	36.971	45.788	2.961	249.8	-0.50	0.025	2.18	0.540	2768.8
3000	1.630	34.667	3.10	1.411	27.750	36.985	45.807	3.053	276.9	-0.37	0.021	1.69	0.475	2965.1
3200	1.575	34.672	3.21	1.337	27.759	36.998	45.824	3.143	305.5	-0.31	0.019	1.49	0.446	3161.2
3400	1.542	34.676	3.31	1.285	27.765	37.008	45.836	3.233	335.7	-0.21	0.014	1.04	0.373	3357.1
3600	1.533	34.678	3.37	1.256	27.769	37.013	45.843	3.323	367.8	-0.10	0.006	0.50	0.257	3552.9
3800	1.516	34.680	3.44	1.219	27.773	37.019	45.851	3.413	401.9	-0.14	0.010	0.76	0.318	3748.5
4000	1.476	34.685	3.56	1.158	27.781	37.030	45.866	3.504	437.9	-0.40	0.028	2.17	0.538	3943.9
4191	1.440	34.689	3.72	1.102	27.789	37.041	45.879	3.589	473.5	-0.50	0.039	2.17	0.000	4130.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.7	28.618	28.617	21.481	29.713	37.594	34.051	34.050	4.74	1.61	0.10	9.10		1.721	0.847	4	222222522
23	47.4	28.563	28.551	21.501	29.734	37.616	34.049	34.050	4.59	1.61	0.11	9.10		1.801	0.907	47	222222522
22	96.7	27.187	27.164	22.312	30.572	38.481	34.528	34.526	4.59	1.61	0.19	9.20		1.797	0.829	96	222222522
21	146.6	22.089	22.060	24.098	32.488	40.519	34.862	34.861	4.02	3.73	0.43	12.00		1.745	0.835	145	222222522
20	196.8	14.718	14.688	25.724	34.357	42.614	34.590	34.581		14.71	1.18	24.30		1.405	0.660	195	225222522
19	247.2	10.948	10.918	26.293	35.075	43.472	34.361	34.351	3.18	24.78	1.58	30.70			0.485	245	222222552
18	297.0	10.123	10.088	26.586	35.400	43.826	34.551	34.547	1.42	35.16	2.30	40.90			0.125	295	222222552
17	346.5	9.164	9.126	26.772	35.626	44.090	34.583	34.576	1.15	39.99	2.49	43.90		0.119	0.046	344	222222522
16	396.2	8.544	8.502	26.872	35.754	44.244	34.586	34.583	1.25	43.12	2.56	45.20			0.012	393	222222552
15	496.0	7.925	7.875	26.955	35.865	44.382	34.570	34.567	1.35	47.55	2.61	45.80			0.023	492	222222552
14	596.2	7.018	6.961	27.062	36.015	44.572	34.541	34.540	1.49	56.72	2.71	47.10		0.051	0.017	591	222222522
13	697.7	6.308	6.245	27.150	36.137	44.725	34.530	34.526	1.52	65.68	2.79	48.00		0.009		692	222222525
12	798.8	5.764	5.694	27.221	36.234	44.848	34.531	34.528	1.57	73.74	2.84	48.80		0.007		792	222222525
11	998.3	4.881	4.798	27.339	36.397	45.052	34.547	34.543	1.77	88.55	2.88	49.20			0.004	990	222222552
10	1201.4	4.175	4.080	27.429	36.522	45.211	34.561	34.548	1.85		2.87	49.10		0.005	-0.006	1191	222522522
9	1400.7	3.341	3.238	27.531	36.668	45.398	34.584	34.580	2.10	120.08	2.89	49.50		0.003	0.024	1388	222222522
8	1599.0	2.795	2.681	27.601	36.768	45.525	34.609	34.603	2.25	131.37	2.86	49.50		-0.014	-0.005	1583	222222522
7	1798.6	2.468	2.342	27.641	36.825	45.600	34.621	34.617	2.38	138.22	2.84	49.30		-0.014	0.004	1780	222222522
6	1999.2	2.251	2.111	27.668	36.865	45.651	34.632	34.629	2.53	142.45	2.82	49.00		-0.007	-0.006	1978	222222522
5	2501.2	1.817	1.640	27.724	36.946	45.756	34.656	34.653	2.83	149.40	2.72	48.20		0.009	-0.008	2472	222222522
4	3001.6	1.623	1.404	27.751	36.986	45.809	34.668			149.30	2.71	48.10		0.011	-0.008	2963	255222522
3	3501.2	1.531	1.264	27.768	37.011	45.841	34.677	34.675	3.35	148.79	2.61	46.60		0.016		3452	222222525
2	4006.5	1.474	1.155	27.782	37.031	45.866	34.685	34.684	3.60	145.47	2.53	46.00		0.003	0.000	3946	222222525
1	4194.2	1.440	1.102	27.788	37.041	45.879	34.689	34.688	3.71	142.35	2.50	45.60		-0.012		4129	222222525

CRUISE: MW 893 STA: 47 DATE (D/M/Y): 20- 2-89 TIME: 1234 LAT: 9 29.88 N LONG: 146 59.77 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24066E-04 1/S SOUND SPEED= 1504.3 M/S Depth= 4773 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.452	34.527	5.54	28.452	21.893	30.123	38.003	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.452	34.527	5.54	28.452	21.893	30.123	38.003	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.484	34.097	5.01	28.479	21.561	29.795	37.679	0.123	0.1	0.38	0.074	-1.62	-0.464	20.0
30	28.488	34.097	4.99	28.481	21.561	29.795	37.678	0.186	0.3	0.10	-0.008	-0.93	-0.353	30.0
40	28.490	34.097	5.00	28.481	21.561	29.795	37.679	0.248	0.5	0.08	0.015	-0.35	-0.217	40.0
50	28.491	34.097	4.95	28.479	21.561	29.795	37.679	0.311	0.8	-0.74	-0.076	4.44	0.770	50.0
100	27.950	34.331	5.00	27.926	21.918	30.162	38.056	0.623	3.2	-75.65	17.349	876.62	10.815	100.0
125	25.035	34.754	4.66	25.008	23.155	31.467	39.423	0.755	4.7	-128.70	7.338	1043.98	11.803	125.0
150	21.651	34.840	4.20	21.621	24.203	32.607	40.650	0.862	6.2	-215.21	-2.584	1265.20	12.993	150.0
200	13.682	34.493	4.22	13.654	25.868	34.540	42.834	0.999	8.6	-83.76	-6.730	300.19	6.329	199.8
250	10.607	34.332	2.85	10.577	26.331	35.127	43.537	1.099	10.9	-45.33	0.650	208.60	5.276	249.6
300	9.575	34.551	1.26	9.541	26.679	35.516	43.964	1.178	13.1	-14.75	2.865	112.57	3.876	299.3
350	9.150	34.596	1.13	9.111	26.784	35.639	44.104	1.246	15.3	-9.28	-0.136	34.21	2.136	349.0
400	8.627	34.591	1.21	8.585	26.864	35.742	44.229	1.311	17.8	-10.94	0.106	44.21	2.429	398.7
450	8.219	34.585	1.27	8.172	26.923	35.819	44.323	1.372	20.5	-5.05	-0.049	18.24	1.560	448.4
500	7.875	34.575	1.33	7.824	26.967	35.879	44.398	1.432	23.4	-8.86	-0.231	28.76	1.959	498.0
600	7.197	34.552	1.46	7.139	27.047	35.991	44.540	1.545	29.7	-7.82	-0.106	26.05	1.864	597.3
700	6.548	34.543	1.47	6.483	27.129	36.104	44.682	1.651	36.8	-6.77	-0.102	21.77	1.704	696.6
800	5.772	34.537	1.61	5.702	27.224	36.237	44.850	1.750	44.3	-6.67	-0.012	22.50	1.733	795.7
900	5.287	34.541	1.70	5.211	27.287	36.324	44.960	1.842	52.3	-4.58	0.050	16.09	1.465	894.9
1000	4.871	34.546	1.81	4.789	27.339	36.397	45.053	1.929	60.7	-5.55	0.082	19.51	1.613	993.9
1200	4.006	34.564	2.00	3.913	27.449	36.551	45.248	2.087	78.4	-4.35	0.113	15.71	1.448	1191.9
1400	3.298	34.586	2.14	3.195	27.537	36.676	45.408	2.225	96.6	-2.72	0.088	9.97	1.153	1389.7
1600	2.918	34.601	2.24	2.803	27.585	36.745	45.496	2.350	115.8	-1.92	0.086	7.49	1.000	1587.3
1800	2.548	34.618	2.42	2.421	27.631	36.811	45.582	2.466	135.9	-1.54	0.070	6.07	0.900	1784.7
2000	2.292	34.628	2.51	2.151	27.661	36.856	45.640	2.576	157.1	-1.57	0.068	6.20	0.909	1981.9
2200	2.087	34.640	2.63	1.932	27.689	36.895	45.690	2.679	179.2	-0.76	0.041	3.18	0.652	2178.9
2400	1.955	34.647	2.76	1.785	27.706	36.921	45.724	2.779	202.7	-0.85	0.043	3.58	0.691	2375.7
2600	1.799	34.656	2.91	1.614	27.726	36.950	45.761	2.875	227.3	-0.65	0.028	2.72	0.602	2572.4
2800	1.718	34.661	3.02	1.516	27.737	36.967	45.783	2.969	253.1	-0.56	0.034	2.56	0.584	2768.8
3000	1.645	34.667	3.15	1.425	27.748	36.983	45.804	3.061	280.4	-0.34	0.019	1.56	0.456	2965.1
3200	1.597	34.671	3.24	1.359	27.756	36.994	45.819	3.153	309.2	-0.37	0.024	1.83	0.494	3161.2
3400	1.559	34.675	3.34	1.301	27.763	37.005	45.832	3.243	339.6	-0.32	0.020	1.59	0.461	3357.2
3600	1.526	34.678	3.44	1.249	27.770	37.014	45.844	3.333	371.8	-0.20	0.013	1.00	0.366	3552.9
3800	1.511	34.681	3.52	1.213	27.774	37.020	45.853	3.423	405.8	-0.19	0.014	1.02	0.368	3748.5
4000	1.489	34.683	3.60	1.171	27.779	37.028	45.863	3.513	441.7	-0.24	0.016	1.28	0.414	3943.9
4200	1.477	34.686	3.69	1.137	27.784	37.034	45.871	3.604	479.4	-0.12	0.009	0.66	0.297	4139.1
4400	1.468	34.689	3.77	1.105	27.788	37.040	45.878	3.694	519.2	-0.14	0.010	0.77	0.320	4334.2
4600	1.466	34.690	3.85	1.080	27.791	37.045	45.884	3.785	561.0	-0.08	0.007	0.48	0.254	4529.1
4777	1.463	34.692	3.91	1.057	27.794	37.049	45.889	3.867	599.9	-0.15	0.011	0.48	0.000	4701.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
23	0.5	28.484	28.483	21.561	29.795	37.678	34.099	34.098	4.90	1.41	0.08	9.00				0	222222555
22	70.9	28.468	28.451	21.574	29.809	37.693	34.102	34.100	4.86	1.51	0.08	9.00				70	222222555
21	97.5	27.784	27.761	22.024	30.272	38.168	34.401	34.245	4.95	1.51	0.12	9.10				96	222222555
20	121.2	23.539	23.514	23.649	31.999	39.993	34.819	34.824	4.50	2.52	0.27	9.50				120	222222555
19	148.5	18.500	18.473	25.024	33.523	41.657	34.828	34.809	3.86	5.64	0.61	15.50				147	222222555
18	207.3	12.336	12.309	26.045	34.771	43.115	34.375	34.393	4.08	15.92	1.10	23.90				206	222222555
17	320.3	9.524	9.488	26.688	35.527	43.978	34.552	34.547	1.27	38.38	2.40	42.50				318	222222555
16	497.8	8.087	8.036	26.939	35.841	44.351	34.580	34.577	1.33	46.74	2.58	45.80				494	222222555
15	671.4	6.714	6.650	27.107	36.074	44.644	34.543	34.543	1.44	61.15	2.76	47.90				666	222222555
14	799.3	5.989	5.917	27.199	36.202	44.805	34.540	34.535	1.58	70.82	2.80	48.70				793	222222555
13	999.1	4.812	4.730	27.346	36.407	45.065	34.546	34.549	1.82	90.67	2.85	49.20				991	222222555
12	1196.5	4.020	3.927	27.445	36.546	45.243	34.562	34.563	1.97	105.78	2.87	49.20				1186	222222555
11	1398.2	3.265	3.163	27.542	36.683	45.416	34.588	34.589	2.14	122.60	2.86	49.50				1385	222222555
10	1599.1	2.764	2.651	27.604	36.772	45.531	34.609	34.605	2.27	132.88	2.85	49.50				1584	222222555
9	1800.5	2.481	2.355	27.639	36.823	45.597	34.621	34.619	2.42	138.01	2.81	49.10				1782	222222555
8	1998.9	2.281	2.141	27.663	36.859	45.643	34.629	34.627	2.48	143.15	2.81	49.00				1978	222222555
7	2248.0	2.037	1.879	27.695	36.905	45.703	34.643	34.640	2.68	147.28	2.76	48.80				2223	222222555
6	2500.0	1.869	1.691	27.718	36.938	45.745	34.654	34.650	2.82	150.10	2.74	48.20				2471	222222555
5	3001.2	1.630	1.411	27.750	36.986	45.808	34.668	34.667	3.15	151.30	2.71	47.30				2963	222222555
3	4004.1	1.487	1.168	27.780	37.028	45.863	34.683	34.684	3.59	145.07	2.53	46.00				3944	222222555
2	4503.7	1.463	1.089	27.789	37.042	45.881	34.689	34.688	3.82	141.54		45.40				4431	222252555
1	4779.4	1.464	1.058	27.793	37.048	45.888	34.691	34.690	3.89	140.03	2.48	45.20				4699	222222555

CRUISE: MW 893 STA: 48 DATE (D/M/Y): 20- 2-89 TIME: 1935 LAT: 9 30.09 N LONG: 147 37.17 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24075E-04 1/S SOUND SPEED= 1498.8 M/S Depth= 3861 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.503	34.080	4.73	28.503	21.540	29.774	37.657	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
13	28.503	34.080	4.73	28.500	21.541	29.775	37.658	0.081	0.1	-0.48	0.000	0.00	0.000	13.0
20	28.503	34.079	4.76	28.498	21.542	29.775	37.659	0.125	0.2	0.29	-0.034	-2.84	-0.615	20.0
30	28.507	34.079	4.80	28.499	21.541	29.775	37.658	0.188	0.3	0.06	0.270	4.28	0.756	30.0
40	28.512	34.083	4.74	28.502	21.543	29.777	37.660	0.250	0.6	0.14	0.021	-0.71	-0.307	40.0
50	28.515	34.086	4.71	28.503	21.545	29.778	37.662	0.313	0.9	0.01	1.009	17.73	1.538	50.0
100	27.050	34.611	4.74	27.027	22.418	30.681	38.592	0.620	3.2	-102.90	16.471	1056.79	11.873	100.0
125	23.788	34.788	4.44	23.762	23.553	31.897	39.884	0.743	4.6	-148.35	5.191	1154.36	12.409	125.0
150	20.584	34.828	4.02	20.555	24.485	32.920	40.992	0.840	6.0	-134.91	-2.829	802.10	10.343	150.0
200	15.261	34.624	4.41	15.230	25.632	34.244	42.483	0.982	8.5	-91.31	-7.598	338.06	6.715	199.8
250	11.114	34.322	3.74	11.083	26.233	35.008	43.399	1.085	10.8	-42.32	-0.297	180.91	4.912	249.5
300	9.672	34.525	1.58	9.638	26.642	35.475	43.920	1.168	13.1	-19.44	4.254	157.53	4.584	299.3
350	9.141	34.584	1.21	9.102	26.776	35.631	44.097	1.237	15.4	-13.74	-0.014	53.93	2.682	349.0
400	8.454	34.575	1.29	8.412	26.878	35.764	44.258	1.301	17.9	-9.45	-0.162	33.18	2.104	398.7
450	8.150	34.573	1.33	8.103	26.923	35.823	44.330	1.362	20.5	-2.91	-0.114	8.87	1.088	448.4
500	7.871	34.558	1.43	7.821	26.953	35.866	44.386	1.422	23.4	-6.62	-0.514	15.21	1.424	498.0
600	7.470	34.554	1.42	7.410	27.010	35.942	44.479	1.539	29.9	-5.48	-0.130	17.75	1.539	597.3
700	6.902	34.535	1.52	6.835	27.076	36.034	44.597	1.650	37.3	-6.20	-0.198	18.28	1.561	696.6
800	5.973	34.530	1.56	5.901	27.194	36.197	44.802	1.755	45.3	-12.67	0.076	44.65	2.440	795.7
900	5.106	34.538	1.70	5.031	27.306	36.351	44.996	1.846	53.2	-5.23	0.046	17.79	1.540	894.9
1000	4.674	34.549	1.77	4.593	27.364	36.431	45.096	1.930	61.3	-3.65	0.093	13.43	1.338	993.9
1200	3.889	34.568	2.02	3.797	27.463	36.572	45.274	2.084	78.6	-3.21	0.108	12.00	1.265	1191.9
1400	3.333	34.585	2.15	3.229	27.533	36.670	45.401	2.223	97.0	-2.90	0.089	10.56	1.187	1389.7
1600	2.882	34.601	2.25	2.767	27.587	36.749	45.503	2.348	116.2	-1.99	0.074	7.47	0.998	1587.3
1800	2.592	34.614	2.36	2.464	27.625	36.803	45.571	2.466	136.5	-1.42	0.062	5.58	0.863	1784.7
2000	2.294	34.628	2.53	2.153	27.662	36.856	45.640	2.575	157.8	-1.07	0.051	4.36	0.762	1981.9
2200	2.084	34.640	2.66	1.929	27.689	36.896	45.691	2.680	180.2	-1.41	0.071	5.89	0.886	2178.9
2400	1.915	34.650	2.80	1.745	27.711	36.928	45.733	2.779	203.4	-0.94	0.048	3.95	0.726	2375.7
2600	1.771	34.658	2.94	1.586	27.729	36.955	45.768	2.874	227.7	-0.69	0.036	2.98	0.631	2572.4
2800	1.652	34.665	3.11	1.451	27.745	36.978	45.798	2.966	253.0	-0.56	0.030	2.50	0.577	2768.8
3000	1.601	34.669	3.20	1.382	27.753	36.990	45.814	3.056	279.7	-0.25	0.015	1.15	0.391	2965.1
3200	1.556	34.673	3.30	1.318	27.761	37.001	45.828	3.146	308.1	-0.31	0.019	1.50	0.448	3161.2
3400	1.552	34.675	3.32	1.294	27.764	37.006	45.834	3.236	338.2	-0.18	0.011	0.88	0.343	3357.2
3600	1.522	34.678	3.40	1.245	27.770	37.015	45.845	3.326	370.4	-0.27	0.017	1.36	0.426	3552.9
3800	1.501	34.681	3.47	1.204	27.775	37.022	45.855	3.416	404.3	-0.19	0.014	1.36	0.000	3748.5
3863	1.497	34.682	3.50	1.193	27.777	37.024	45.858	3.444	415.3	-0.17	0.012	1.36	0.000	3810.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.3	28.496	28.494	21.549	29.783	37.666	34.087	34.087	4.73	1.31	0.11	9.20				5	222222555
23	48.6	28.508	28.496	21.555	29.789	37.672	34.097	34.095	4.69	1.61	0.12	9.20				48	222222555
22	97.4	27.416	27.393	22.250	30.505	38.408	34.543	34.532	4.95	1.51	0.20	9.20				96	222222555
21	146.2	19.296	19.270	24.817	33.292	41.402	34.822	34.801	3.82	5.44	0.64	15.40				145	222222555
20	197.1	14.636	14.606	25.735	34.371	42.631	34.581	34.578	4.39	9.47	0.77	19.00				195	222222555
19	248.6	10.443	10.413	26.380	35.182	43.599	34.358	34.354	2.52	29.32	1.90	34.40				247	222222555
18	297.5	9.437	9.404	26.696	35.538	43.992	34.544	34.540	1.32	38.99	2.44	42.60				295	222222555
17	347.9	8.996	8.958	26.804	35.665	44.137	34.590	34.586	1.15	40.60	2.53	44.60				345	222222555
16	397.4	8.474	8.432	26.876	35.761	44.254	34.576	34.574	1.28	43.82	2.56	45.10				394	222222555
15	497.0	7.849	7.799	26.957	35.870	44.391	34.558	34.557	1.41	48.66	2.62	45.70				493	222222555
14	596.3	7.320	7.262	27.028	35.967	44.510	34.550	34.550	1.40	53.59	2.69	46.80				592	222222555
13	696.7	6.813	6.747	27.085	36.048	44.614	34.532	34.531	1.54	59.03	2.73	47.10				691	222222555
12	798.7	5.831	5.760	27.212	36.222	44.833	34.530	34.530	1.55	72.63	2.84	48.60		0.003	-0.001	792	222222522
11	896.7	5.021	4.946	27.315	36.365	45.013	34.537	34.537	1.72	86.54	2.88	49.20				889	222222555
10	997.7	4.604	4.524	27.373	36.444	45.112	34.551	34.549	1.78	93.99	2.91	49.60				989	222222555
9	1197.5	3.804	3.713	27.474	36.587	45.293	34.571	34.569	2.05	110.01	2.87	49.20				1187	222222555
8	1398.2	3.240	3.138	27.543	36.685	45.420	34.587	34.584	2.15	122.60	2.89	49.50		0.003	0.008	1385	222222522
7	1600.7	2.832	2.718	27.594	36.759	45.514	34.604	34.602	2.27	131.16	2.86	49.40				1585	222222555
6	1798.6	2.495	2.368	27.636	36.819	45.592	34.618	34.616	2.38	138.62	2.85	49.30				1780	222222555
5	1999.9	2.378	2.236	27.652	36.843	45.622	34.625	34.622	2.45	141.24	2.84	49.10				1979	222222555
4	2500.9	1.827	1.650	27.723	36.945	45.755	34.656	34.653	2.86	149.80	2.72	48.10		0.003	-0.004	2472	222222522
3	2999.5	1.596	1.377	27.755	36.992	45.816	34.671	34.668	3.18	150.00	2.63	47.20				2961	222222555
2	3505.5	1.538	1.271	27.767	37.010	45.839	34.677	34.675	3.37	149.50	2.59	46.80				3457	222222555
1	3866.4	1.496	1.192	27.777	37.024	45.858	34.682	34.681	3.51	147.08	2.56	46.20		-0.002	-0.007	3809	222222522

CRUISE: MW 893 STA: 49 DATE (D/M/Y): 21- 2-89 TIME: 0157 LAT: 9 29.99 N LONG: 148 5.23 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1494.6 M/S Depth= 3024 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.515	34.092	4.90	28.515	21.545	29.779	37.662	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.515	34.092	4.90	28.515	21.545	29.779	37.662	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.492	34.081	4.92	28.487	21.546	29.780	37.664	0.125	0.1	-1.09	0.050	9.35	1.117	20.0
30	28.487	34.080	4.95	28.480	21.548	29.783	37.667	0.188	0.3	-0.53	-0.027	3.60	0.693	30.0
40	28.485	34.080	4.93	28.475	21.550	29.784	37.668	0.250	0.5	-0.46	-0.035	2.96	0.628	40.0
50	28.483	34.080	4.93	28.471	21.551	29.785	37.669	0.313	0.8	-0.03	-0.009	0.04	0.076	50.0
100	26.439	34.703	4.90	26.416	22.681	30.958	38.882	0.616	3.1	-102.81	14.694	1022.93	11.682	100.0
125	24.382	34.775	4.66	24.355	23.367	31.696	39.669	0.735	4.5	-77.14	3.022	534.28	8.443	125.0
150	21.062	34.853	4.20	21.033	24.374	32.795	40.854	0.838	5.9	-184.35	-2.839	1127.72	12.266	150.0
200	13.891	34.511	4.43	13.862	25.838	34.502	42.789	0.973	8.3	-64.05	-5.235	228.51	5.521	199.8
250	10.884	34.328	3.44	10.854	26.279	35.063	43.463	1.075	10.6	-53.07	-0.460	225.67	5.487	249.5
300	10.114	34.461	1.91	10.079	26.518	35.333	43.761	1.158	12.9	-8.63	3.335	96.85	3.594	299.3
350	9.290	34.562	1.30	9.251	26.735	35.584	44.044	1.231	15.4	-13.64	0.677	67.09	2.992	349.0
400	8.817	34.581	1.25	8.774	26.826	35.696	44.175	1.298	17.9	-8.00	0.181	34.49	2.145	398.7
450	8.170	34.568	1.37	8.123	26.916	35.815	44.322	1.361	20.6	-14.65	-0.480	46.88	2.501	448.4
500	7.806	34.562	1.42	7.756	26.966	35.882	44.404	1.420	23.5	-6.90	-0.047	24.74	1.817	498.0
600	7.150	34.541	1.49	7.092	27.045	35.991	44.542	1.534	29.9	-7.50	-0.218	22.61	1.737	597.3
700	6.311	34.525	1.68	6.247	27.146	36.132	44.721	1.640	36.9	-7.16	0.015	24.89	1.822	696.6
800	5.614	34.526	1.72	5.545	27.235	36.256	44.876	1.737	44.3	-5.64	0.065	20.00	1.633	795.7
900	5.082	34.533	1.83	5.008	27.304	36.351	44.997	1.827	52.1	-4.23	0.163	16.81	1.497	894.9
1000	4.740	34.548	1.76	4.658	27.356	36.420	45.082	1.911	60.3	-4.00	0.091	14.16	1.374	993.9
1200	3.949	34.567	2.01	3.857	27.457	36.562	45.262	2.066	77.6	-3.59	0.102	13.02	1.318	1191.9
1400	3.182	34.591	2.19	3.080	27.551	36.697	45.434	2.203	95.7	-3.16	0.108	11.69	1.249	1389.7
1600	2.789	34.605	2.30	2.675	27.599	36.766	45.523	2.325	114.4	-2.08	0.076	7.71	1.014	1587.3
1800	2.453	34.621	2.45	2.327	27.642	36.827	45.602	2.438	133.9	-1.26	0.057	4.95	0.812	1784.7
2000	2.260	34.628	2.53	2.119	27.664	36.861	45.647	2.545	154.7	-1.14	0.058	4.63	0.786	1981.9
2200	2.052	34.641	2.69	1.898	27.692	36.901	45.698	2.647	176.6	-0.97	0.050	4.01	0.731	2178.9
2400	1.855	34.653	2.85	1.686	27.718	36.938	45.746	2.745	199.5	-0.84	0.046	3.61	0.694	2375.7
2600	1.746	34.660	2.99	1.561	27.733	36.960	45.774	2.839	223.4	-0.41	0.021	1.79	0.488	2572.3
2800	1.657	34.665	3.11	1.456	27.745	36.978	45.797	2.931	248.8	-0.67	0.036	2.99	0.632	2768.8
3000	1.592	34.670	3.23	1.374	27.755	36.992	45.816	3.021	275.5	-0.39	0.024	2.99	0.000	2965.1
3025	1.583	34.671	3.25	1.362	27.756	36.994	45.818	3.032	278.9	-0.41	0.025	2.99	0.000	2989.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	20.9	28.493	28.488	21.548	29.782	37.665	34.083	34.082	4.78	1.41	0.10	9.00		1.652	0.837	20	222222522
23	47.0	28.484	28.472	21.552	29.786	37.670	34.082	34.082	4.71	1.41	0.10	9.00		1.689	0.874	46	222222522
22	72.1	28.469	28.451	21.567	29.802	37.686	34.092	34.090	4.83	1.41	0.11	9.10		1.709	0.918	71	222222522
21	94.8	26.427	26.406	22.682	30.959	38.883	34.700	34.707	4.73	1.81	0.19	9.10		1.691	0.874	94	222222522
20	119.9	23.229	23.205	23.725	32.085	40.086	34.801	34.821	4.34	2.72	0.36	10.20		1.743	0.890	119	222222522
19	147.8	18.198	18.173	25.052	33.562	41.705	34.767	34.785	3.83	6.15	0.68	16.30			0.881	146	222222552
18	172.4	15.106	15.080	25.662	34.279	42.523	34.619	34.625	4.36	8.16	0.72	18.10				171	222222555
17	194.5	13.907	13.879	25.838	34.501	42.787	34.515	34.514	4.25	11.28	0.92	20.70		1.797	0.851	193	222222522
16	247.8	10.744	10.714	26.305	35.095	43.500	34.330	34.327	3.09	25.79	1.71	31.50				246	222222555
15	299.5	9.848	9.814	26.595	35.421	43.859	34.502	34.501	1.53	36.27	2.32	40.80			0.146	297	222222552
14	398.8	8.679	8.637	26.850	35.726	44.211	34.584	34.583	1.26	42.51	2.55	45.10				396	222222555
13	496.2	7.773	7.723	26.972	35.889	44.413	34.564	34.561	1.42	48.96	2.63	46.00		0.033		492	222222525
12	747.6	5.881	5.815	27.203	36.211	44.819	34.528	34.527	1.62	71.32	2.82	48.40		-0.005		742	222222525
11	897.7	5.201	5.125	27.291	36.332	44.972	34.534	34.530	1.77	82.71	2.84	48.90			0.028	890	222222552
10	996.7	4.680	4.599	27.361	36.428	45.093	34.546	34.544	1.79	92.58	2.87	49.40		0.032	0.023	988	222222522
9	1118.4	4.162	4.075	27.429	36.523	45.212	34.561	34.559	1.92	102.15	2.88	49.50		0.007	0.017	1109	222222522
8	1247.5	3.808	3.713	27.475	36.587	45.294	34.571	34.569	2.04	109.81	2.89	49.50		0.002	-0.001	1236	222222522
7	1499.7	2.999	2.891	27.575	36.730	45.477	34.599	34.596	2.20	127.03	2.88	49.50			-0.001	1485	222222552
6	1750.4	2.486	2.364	27.636	36.819	45.593	34.618	34.614	2.41	138.01	2.88	49.40		0.003	-0.006	1733	222222522
5	1999.3	2.198	2.059	27.672	36.872	45.661	34.632	34.631	2.53	143.96	2.81	49.10		0.011	-0.007	1978	222222522
4	2251.3	1.981	1.823	27.701	36.914	45.714	34.645	34.643	2.69	147.28	2.77	48.60		-0.002	0.012	2226	222222522
3	2550.2	1.743	1.563	27.734	36.960	45.775	34.661	34.659	2.95	150.00	2.71	48.00		0.024	-0.007	2520	222222522
2	2754.1	1.685	1.488	27.741	36.972	45.790	34.664	34.660	3.04	150.40	2.69	47.80		0.015	-0.006	2720	222222522
1	3030.0	1.578	1.357	27.756	36.994	45.819	34.670	34.669	3.21	150.30	2.64	47.30			-0.007	2991	222222552

CRUISE: MW 893 STA: 50 DATE (D/M/Y): 21- 2-89 TIME: 0628 LAT: 9 30.06 N LONG: 148 25.39 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24073E-04 1/S SOUND SPEED= 1499.3 M/S Depth= 3983 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.620	34.079	5.31	28.620	21.501	29.732	37.613	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.620	34.079	5.31	28.620	21.501	29.732	37.613	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.569	34.093	5.01	28.564	21.530	29.762	37.644	0.126	0.1	-5.14	-0.532	30.57	2.019	20.0
30	28.541	34.090	5.00	28.534	21.538	29.771	37.654	0.188	0.3	-0.85	-0.067	5.39	0.848	30.0
40	28.535	34.090	4.99	28.525	21.541	29.774	37.657	0.251	0.5	-0.36	0.090	4.35	0.762	40.0
50	28.534	34.090	4.94	28.522	21.542	29.775	37.658	0.314	0.8	-0.03	0.095	1.90	0.504	50.0
100	26.813	34.640	4.92	26.790	22.515	30.784	38.700	0.618	3.1	-97.46	15.236	994.44	11.517	100.0
125	24.062	34.797	4.67	24.036	23.479	31.815	39.796	0.739	4.5	-137.82	2.884	1014.87	11.635	125.0
150	20.880	34.868	4.25	20.852	24.435	32.861	40.925	0.838	5.9	-118.88	-1.461	775.62	10.172	150.0
200	15.797	34.653	4.30	15.765	25.535	34.128	42.348	0.986	8.5	-98.61	-6.812	404.87	7.349	199.8
250	11.871	34.346	4.00	11.839	26.112	34.856	43.218	1.095	11.0	-72.04	-2.962	269.65	5.997	249.6
300	9.631	34.377	2.10	9.597	26.533	35.370	43.819	1.180	13.4	-21.56	2.125	126.39	4.106	299.3
350	9.070	34.570	1.35	9.032	26.777	35.635	44.104	1.251	15.7	-1.44	2.541	52.35	2.643	349.0
400	8.566	34.558	1.44	8.524	26.847	35.728	44.218	1.316	18.2	-9.77	0.276	42.72	2.387	398.7
450	8.106	34.570	1.39	8.060	26.927	35.829	44.338	1.378	20.9	-7.50	0.245	32.70	2.088	448.4
500	7.745	34.561	1.43	7.695	26.975	35.893	44.418	1.437	23.8	-8.01	-0.247	24.94	1.824	498.0
600	6.703	34.531	1.56	6.647	27.098	36.066	44.636	1.548	30.0	-7.71	-0.132	24.92	1.823	597.3
700	6.077	34.526	1.65	6.014	27.176	36.174	44.773	1.650	36.7	-5.27	-0.026	17.50	1.528	696.6
800	5.515	34.531	1.70	5.446	27.251	36.276	44.901	1.746	44.1	-5.72	0.156	22.20	1.721	795.7
900	5.105	34.543	1.63	5.030	27.309	36.355	44.999	1.835	51.8	-4.56	0.062	15.91	1.457	894.9
1000	4.606	34.540	1.85	4.526	27.364	36.436	45.104	1.919	59.9	-4.45	0.118	16.29	1.474	993.9
1200	3.849	34.569	2.01	3.758	27.468	36.578	45.283	2.071	76.9	-3.34	0.097	12.04	1.267	1191.9
1400	3.252	34.586	2.11	3.150	27.541	36.683	45.417	2.206	94.8	-2.12	0.083	7.99	1.032	1389.7
1600	2.883	34.602	2.24	2.768	27.588	36.750	45.503	2.331	113.9	-1.96	0.062	7.17	0.978	1587.3
1800	2.502	34.619	2.37	2.375	27.636	36.819	45.591	2.446	133.9	-1.65	0.098	6.94	0.962	1784.7
2000	2.236	34.632	2.51	2.096	27.669	36.867	45.654	2.554	154.8	-1.11	0.058	4.60	0.783	1981.9
2200	2.047	34.643	2.63	1.893	27.694	36.903	45.700	2.657	176.7	-1.11	0.056	4.61	0.784	2178.9
2400	1.900	34.651	2.76	1.731	27.713	36.931	45.736	2.755	199.7	-0.76	0.038	3.18	0.651	2375.7
2600	1.768	34.658	2.93	1.582	27.730	36.955	45.769	2.850	223.9	-0.62	0.029	2.64	0.594	2572.4
2800	1.671	34.665	3.07	1.469	27.744	36.976	45.795	2.942	249.3	-0.45	0.024	2.03	0.520	2768.8
3000	1.618	34.669	3.17	1.399	27.752	36.988	45.810	3.033	276.2	-0.27	0.015	1.24	0.407	2965.1
3200	1.584	34.672	3.25	1.345	27.758	36.997	45.822	3.123	304.8	-0.26	0.015	1.24	0.407	3161.2
3400	1.560	34.675	3.31	1.303	27.763	37.004	45.832	3.213	335.1	-0.24	0.015	1.16	0.393	3357.1
3600	1.514	34.679	3.44	1.237	27.771	37.016	45.847	3.303	367.2	-0.18	0.012	0.92	0.350	3552.9
3800	1.502	34.681	3.51	1.205	27.775	37.022	45.855	3.393	401.1	-0.25	0.017	1.30	0.416	3748.5
3989	1.470	34.684	3.63	1.153	27.781	37.031	45.866	3.478	434.7	-0.26	0.018	1.30	0.000	3933.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.1	28.575	28.573	21.533	29.765	37.647	34.101	34.101	5.00	1.41	0.11	9.00				7	222222555
23	47.0	28.544	28.532	21.545	29.778	37.661	34.099	34.099	4.93	1.61	0.12	9.10				46	222222555
22	71.7	28.329	28.312	21.711	29.948	37.834	34.224	34.220	4.99	1.61	0.13	9.10				71	222222555
21	97.4	27.121	27.098	22.397	30.658	38.567	34.612	34.528	4.95	1.81	0.19	9.10				96	222222555
20	147.3	19.876	19.849	24.675	33.132	41.224	34.833	34.856	3.88	4.73	0.57	14.20				146	222222555
19	196.7	14.661	14.632	25.714	34.349	42.608	34.560	34.590	4.28	9.27	0.77	19.00				195	222222555
18	247.2	12.070	12.038	26.090	34.826	43.180	34.365	34.367	3.99	17.83	1.22	25.30				245	222222555
17	297.3	10.170	10.135	26.418	35.232	43.659	34.345	34.343	2.44	31.23	2.03	35.40				295	222222555
16	348.4	8.884	8.847	26.712	35.580	44.058	34.450	34.447	1.47	42.92	2.43	42.60				346	222222555
15	396.7	8.594	8.552	26.839	35.719	44.208	34.554	34.551	1.41	43.82	2.52	44.40				394	222222555
14	496.9	7.859	7.809	26.959	35.872	44.392	34.562	34.561	1.45	48.36	2.62	45.90				493	222222555
13	596.7	7.025	6.968	27.059	36.012	44.568	34.538	34.536	1.48	56.92	2.77	47.20				592	222222555
12	698.0	6.177	6.115	27.166	36.159	44.754	34.529	34.524	1.60	66.39	2.79	48.00				692	222222555
11	795.7	5.615	5.546	27.235	36.255	44.876	34.526	34.526	1.68	75.86	2.83	48.70				789	222222555
10	997.6	4.604	4.524	27.366	36.437	45.105	34.542	34.540	1.87	95.20	2.88	49.30				989	222222555
9	1197.8	3.779	3.688	27.477	36.590	45.298	34.571	34.570	2.03	110.61	2.91	49.60				1187	222222555
8	1398.5	3.183	3.082	27.550	36.695	45.433	34.590	34.589	2.13	123.91	2.91	49.90				1385	222222555
7	1597.3	2.859	2.745	27.592	36.755	45.510	34.604	34.602	2.22	130.66	2.89	49.70				1582	222222555
6	1798.5	2.438	2.312	27.644	36.830	45.606	34.623	34.620	2.42	139.42	2.87	49.40				1780	222222555
5	1998.3	2.219	2.079	27.672	36.871	45.659	34.634	34.633	2.50	144.06	2.83	49.30				1977	222222555
3	3005.0	1.616	1.396	27.752	36.988	45.811	34.669	34.668	3.17	151.31		47.50				2966	222252555
2	3508.5	1.528	1.260	27.767	37.011	45.841	34.676	34.677	3.38	149.50		47.00				3460	222252555

CRUISE: MW 893 STA: 51 DATE (D/M/Y): 21- 2-89 TIME: 1125 LAT: 9 29.83 N LONG: 148 45.35 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1506.0 M/S Depth= 5070 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.482	34.094	4.69	28.482	21.558	29.792	37.675	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.482	34.094	4.69	28.482	21.558	29.792	37.675	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.498	34.089	4.96	28.493	21.550	29.784	37.668	0.125	0.1	-0.41	0.110	5.17	0.830	20.0
30	28.496	34.089	4.82	28.489	21.552	29.786	37.669	0.187	0.3	-0.81	0.007	6.42	0.925	30.0
40	28.498	34.089	4.86	28.489	21.552	29.786	37.670	0.250	0.5	0.71	-0.038	-6.17	-0.907	40.0
50	28.503	34.089	4.78	28.491	21.551	29.785	37.669	0.313	0.8	0.04	-0.008	-0.42	-0.237	50.0
100	27.792	34.397	4.75	27.768	22.019	30.266	38.162	0.621	3.1	-42.01	13.094	551.26	8.577	100.0
125	26.255	34.732	4.75	26.226	22.763	31.044	38.972	0.760	4.7	-121.81	12.102	994.37	11.519	125.0
150	20.749	34.882	4.01	20.720	24.481	32.911	40.978	0.868	6.2	-166.16	-2.982	1055.61	11.869	150.0
200	14.174	34.531	4.14	14.145	25.795	34.448	42.724	1.006	8.7	-78.08	-6.109	287.15	6.190	199.8
250	11.086	34.304	3.81	11.055	26.224	35.001	43.393	1.109	11.0	-48.97	-1.488	188.22	5.012	249.6
300	9.527	34.363	2.09	9.493	26.540	35.381	43.834	1.193	13.4	-18.97	1.619	106.68	3.773	299.3
350	8.756	34.449	1.48	8.718	26.732	35.606	44.089	1.266	15.8	-14.88	1.325	81.93	3.306	349.0
400	8.485	34.562	1.37	8.443	26.863	35.747	44.241	1.331	18.3	-7.53	0.888	44.62	2.440	398.7
450	7.819	34.504	1.66	7.774	26.918	35.833	44.356	1.393	21.0	-5.99	0.393	29.30	1.977	448.4
500	7.558	34.544	1.57	7.508	26.988	35.915	44.449	1.452	23.8	-4.72	0.368	23.91	1.786	498.1
600	6.828	34.503	1.74	6.772	27.059	36.021	44.587	1.563	30.1	-6.95	-0.026	23.80	1.782	597.3
700	6.228	34.532	1.48	6.164	27.162	36.153	44.745	1.667	36.9	-4.73	-0.054	15.14	1.421	696.6
800	5.700	34.527	1.75	5.630	27.225	36.241	44.858	1.764	44.4	-6.94	0.096	24.70	1.815	795.8
900	5.034	34.542	1.66	4.959	27.317	36.366	45.014	1.854	52.1	-4.39	0.099	16.03	1.463	894.9
1000	4.481	34.548	1.85	4.402	27.384	36.462	45.136	1.937	60.1	-5.69	0.056	18.94	1.590	994.0
1200	3.675	34.574	1.99	3.585	27.489	36.608	45.321	2.084	76.7	-3.70	0.124	13.60	1.347	1191.9
1400	3.138	34.593	2.17	3.037	27.556	36.704	45.444	2.215	94.0	-2.24	0.076	8.18	1.045	1389.7
1600	2.707	34.605	2.27	2.594	27.606	36.777	45.539	2.336	112.5	-1.81	0.079	6.92	0.961	1587.3
1800	2.367	34.622	2.44	2.242	27.649	36.839	45.619	2.447	131.8	-1.31	0.066	5.26	0.838	1784.7
2000	2.186	34.635	2.56	2.047	27.675	36.876	45.665	2.553	152.2	-1.12	0.078	4.92	0.810	1981.9
2200	1.974	34.646	2.72	1.821	27.702	36.915	45.716	2.653	173.6	-0.79	0.038	3.20	0.654	2178.9
2400	1.832	34.655	2.86	1.664	27.721	36.942	45.751	2.749	196.1	-0.58	0.031	2.50	0.578	2375.7
2600	1.775	34.659	2.95	1.590	27.730	36.955	45.768	2.842	220.0	-0.49	0.024	2.10	0.529	2572.3
2800	1.667	34.665	3.10	1.465	27.744	36.976	45.795	2.935	245.5	-0.51	0.027	2.27	0.551	2768.8
3000	1.585	34.671	3.24	1.366	27.756	36.993	45.818	3.025	272.2	-0.54	0.032	2.51	0.579	2965.1
3200	1.541	34.675	3.35	1.304	27.763	37.004	45.832	3.114	300.3	-0.24	0.015	1.13	0.389	3161.2
3400	1.517	34.677	3.43	1.261	27.768	37.012	45.842	3.203	330.1	-0.13	0.008	0.65	0.294	3357.1
3600	1.514	34.679	3.47	1.237	27.771	37.016	45.847	3.292	361.9	-0.18	0.012	0.92	0.350	3552.9
3800	1.513	34.681	3.52	1.215	27.774	37.020	45.852	3.382	395.8	-0.09	0.007	0.49	0.257	3748.5
4000	1.513	34.682	3.56	1.193	27.777	37.024	45.857	3.472	431.9	-0.14	0.010	0.77	0.321	3943.9
4200	1.494	34.685	3.66	1.153	27.782	37.032	45.867	3.563	470.0	-0.21	0.015	1.13	0.389	4139.1
4400	1.475	34.688	3.75	1.112	27.787	37.039	45.877	3.655	510.1	-0.33	0.022	1.81	0.492	4334.2
4600	1.455	34.691	3.89	1.070	27.792	37.047	45.886	3.745	551.7	-0.10	0.006	0.56	0.273	4529.1
4800	1.456	34.693	3.95	1.047	27.796	37.051	45.892	3.837	595.6	-0.15	0.011	0.88	0.343	4723.8
5000	1.459	34.695	4.01	1.026	27.798	37.055	45.897	3.929	641.7	-0.08	0.006	0.88	0.000	4918.3
5089	1.464	34.695	4.04	1.020	27.799	37.056	45.898	3.971	663.0	-0.06	0.006	0.88	0.000	5004.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.475	28.475	21.556	29.790	37.674	34.088	34.088	5.08	1.11	0.07	9.10				1	222222555
23	45.3	28.478	28.467	21.558	29.792	37.676	34.087	34.090	4.90	1.21	0.07	9.20				45	222222555
22	97.5	26.563	26.541	22.650	30.924	38.845	34.715	34.709	4.83	1.41	0.14	9.30				96	222222555
21	145.1	21.271	21.243	24.335	32.749	40.802	34.876	34.889	4.02	3.63	0.43	12.60				144	222222555
20	196.4	15.980	15.949	25.507	34.093	42.307	34.671	34.681	4.17	7.66	0.68	18.00				195	222222555
19	270.7	10.421	10.389	26.361	35.165	43.582	34.328	34.312	3.02	27.50	1.70	32.40				268	222222555
18	356.0	8.364	8.327	26.811	35.702	44.201	34.473	34.468	1.20	47.25	2.54	44.30				353	222222555
17	396.2	8.182	8.141	26.880	35.778	44.285	34.525	34.524	1.53	47.15	2.48	44.20				393	222222555
16	497.2	7.252	7.204	27.011	35.953	44.499	34.519	34.516	1.64	54.50	2.57	45.50				493	222222555
15	597.0	6.588	6.532	27.089	36.063	44.639	34.501	34.502	1.72	62.56	2.65	46.60				592	222222555
14	696.0	6.194	6.132	27.165	36.158	44.751	34.531	34.529	1.51	67.60	2.78	48.40				690	222222555
13	795.8	5.620	5.551	27.235	36.256	44.876	34.528	34.525	1.74	75.66	2.77	48.30				789	222222555
12	998.0	4.693	4.612	27.360	36.427	45.091	34.547	34.546	1.78	92.78	2.87	49.40				989	222222555
11	1198.3	3.820	3.729	27.470	36.582	45.288	34.568	34.567	1.95	110.61	2.87	49.40				1188	222222555
10	1397.4	3.135	3.034	27.556	36.704	45.444	34.592	34.590	2.18	124.92	2.86	49.60				1384	222222555
9	1599.8	2.687	2.575	27.610	36.782	45.545	34.608		2.26	134.39	2.84	49.30				1584	252222555
8	1796.8	2.340	2.216	27.652	36.844	45.625	34.623	34.623		141.74	2.81	49.00				1779	225222555
7	1998.6	2.160	2.021	27.678	36.880	45.671	34.636	34.634	2.55	145.07	2.80	48.30				1977	222222555
6	2500.2	1.806	1.630	27.726	36.949	45.760	34.658	34.656	2.88	150.40	2.72	48.10				2471	222222555
5	3001.9	1.598	1.379	27.755	36.992	45.816	34.671	34.669	3.18	150.51	2.64	47.20				2963	222222555
3	4003.0	1.507	1.188	27.777	37.025	45.858	34.682	34.683	3.53	146.58	2.54	46.00				3943	222222555
2	4508.9	1.451	1.077	27.792	37.045	45.885	34.691	34.689	3.88	140.94	2.49	45.20				4436	222222555
1	5091.1	1.464	1.020	27.799	37.055	45.898	34.694	34.694		137.71	2.44	44.70				5002	225222555

CRUISE: MW 893 STA: 52 DATE (D/M/Y): 21- 2-89 TIME: 1726 LAT: 9 29.51 N LONG: 149 10.02 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24050E-04 1/S SOUND SPEED= 1506.8 M/S Depth= 5181 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.479	34.122	3.33	28.479	21.580	29.814	37.697	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.479	34.122	3.33	28.479	21.580	29.814	37.697	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.495	34.107	4.68	28.490	21.565	29.798	37.682	0.125	0.1	-0.98	-0.010	7.44	0.997	20.0
30	28.497	34.106	4.69	28.490	21.565	29.798	37.682	0.187	0.3	0.74	-0.001	-5.74	-0.875	30.0
40	28.508	34.106	4.70	28.498	21.562	29.795	37.678	0.249	0.5	-0.22	-0.012	1.48	0.444	40.0
50	28.509	34.106	4.78	28.497	21.562	29.796	37.679	0.312	0.8	0.14	-0.021	-1.42	-0.435	50.0
100	28.061	34.393	4.71	28.037	21.928	30.170	38.060	0.624	3.2	-79.36	17.603	907.41	11.007	100.0
125	24.657	34.783	4.46	24.630	23.291	31.612	39.578	0.756	4.7	-169.05	9.070	1404.29	13.693	125.0
150	21.299	34.922	4.08	21.270	24.362	32.775	40.827	0.857	6.1	-94.98	-0.672	637.01	9.222	150.0
200	14.849	34.584	4.06	14.819	25.691	34.319	42.572	1.007	8.7	-102.86	-7.386	412.34	7.420	199.8
250	11.572	34.362	3.49	11.540	26.180	34.936	43.309	1.112	11.2	-50.61	-2.928	174.02	4.820	249.6
300	9.747	34.353	2.25	9.712	26.496	35.328	43.772	1.199	13.6	-17.54	1.648	101.83	3.687	299.3
350	8.972	34.444	1.58	8.934	26.693	35.558	44.032	1.274	16.1	-15.18	1.313	83.36	3.336	349.0
400	8.624	34.555	1.33	8.582	26.836	35.714	44.202	1.341	18.6	-8.30	1.504	59.28	2.813	398.7
450	8.034	34.547	1.46	7.988	26.920	35.825	44.338	1.403	21.3	-10.43	-0.478	30.28	2.011	448.4
500	7.656	34.545	1.52	7.606	26.975	35.897	44.426	1.462	24.2	-8.16	-0.249	25.34	1.839	498.1
600	6.860	34.521	1.64	6.804	27.068	36.029	44.593	1.574	30.4	-7.40	-0.009	25.69	1.852	597.4
700	6.100	34.529	1.61	6.116	27.165	36.158	44.753	1.677	37.3	-6.29	0.032	22.17	1.721	696.6
800	5.683	34.536	1.53	5.614	27.234	36.251	44.868	1.773	44.6	-4.73	0.047	16.53	1.485	795.8
900	5.193	34.535	1.72	5.117	27.293	36.335	44.975	1.864	52.5	-3.41	0.013	11.29	1.228	894.9
1000	4.744	34.535	1.78	4.663	27.345	36.409	45.071	1.950	60.9	-3.85	0.185	15.89	1.456	994.0
1200	3.836	34.568	1.97	3.745	27.469	36.580	45.285	2.106	78.2	-4.21	0.141	15.64	1.445	1192.0
1400	3.207	34.591	2.14	3.105	27.549	36.693	45.429	2.240	96.0	-2.53	0.091	9.37	1.118	1389.7
1600	2.807	34.606	2.25	2.693	27.598	36.764	45.521	2.363	114.8	-2.05	0.074	7.61	1.008	1587.3
1800	2.447	34.621	2.40	2.321	27.642	36.828	45.603	2.476	134.4	-1.81	0.095	7.33	0.989	1784.7
2000	2.171	34.636	2.54	2.032	27.678	36.879	45.669	2.581	154.8	-1.33	0.057	5.23	0.835	1981.9
2200	1.963	34.645	2.69	1.810	27.702	36.916	45.717	2.681	176.1	-1.03	0.039	4.00	0.731	2178.9
2400	1.842	34.653	2.82	1.674	27.719	36.940	45.748	2.777	198.6	-0.72	0.049	3.24	0.658	2375.7
2600	1.720	34.660	2.96	1.536	27.735	36.963	45.779	2.870	222.3	-0.49	0.028	2.15	0.536	2572.4
2800	1.648	34.666	3.07	1.446	27.746	36.979	45.800	2.961	247.4	-0.32	0.019	1.45	0.440	2768.8
3000	1.614	34.669	3.14	1.395	27.753	36.989	45.812	3.051	274.2	-0.31	0.021	1.47	0.443	2965.1
3200	1.564	34.674	3.23	1.326	27.761	37.001	45.827	3.141	302.6	-0.43	0.025	2.02	0.520	3161.2
3400	1.511	34.678	3.37	1.255	27.770	37.013	45.843	3.230	332.5	-0.23	0.014	1.11	0.385	3357.1
3600	1.486	34.681	3.47	1.210	27.775	37.021	45.854	3.318	364.0	-0.21	0.016	1.12	0.387	3552.9
3800	1.468	34.684	3.55	1.171	27.780	37.028	45.863	3.407	397.4	-0.20	0.016	1.10	0.383	3748.5
4000	1.451	34.686	3.65	1.134	27.784	37.035	45.871	3.495	432.6	-0.22	0.014	1.12	0.387	3943.9
4200	1.432	34.689	3.75	1.093	27.790	37.042	45.881	3.584	469.6	-0.19	0.012	1.03	0.371	4139.1
4400	1.431	34.691	3.82	1.070	27.792	37.046	45.886	3.673	508.6	-0.09	0.006	0.52	0.262	4334.2
4600	1.440	34.692	3.88	1.055	27.794	37.049	45.890	3.762	549.8	-0.09	0.006	0.50	0.259	4529.1
4800	1.443	34.694	3.94	1.034	27.797	37.053	45.895	3.853	593.3	-0.07	0.005	0.42	0.238	4723.8
5000	1.454	34.695	3.98	1.021	27.799	37.056	45.898	3.945	639.2	-0.09	0.008	0.56	0.272	4918.4
5195	1.462	34.696	4.02	1.005	27.801	37.058	45.901	4.036	686.3	-0.04	0.004	0.56	0.000	5107.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.2	28.496	28.494	21.567	29.801	37.684	34.112	34.113	4.77	1.31	0.11	9.10		1.661	0.856	6	222222522
23	46.6	28.502	28.490	21.568	29.802	37.685	34.111	34.112	4.76	1.31	0.12	9.10		1.677	0.873	46	222222522
22	96.2	28.228	28.205	21.805	30.043	37.931	34.302	34.165	4.72	1.41	0.13	9.30		1.754	0.861	95	222222522
21	145.9	20.344	20.317	24.645	33.085	41.163	34.955	34.916	3.96	4.03	0.47	13.00		1.746	0.904	145	222222522
20	197.3	15.226	15.196	25.632	34.246	42.485	34.613	34.662	4.05	8.26	0.76	18.50		1.815	0.950	196	222222522
19	247.5	11.769	11.737	26.139	34.888	43.253	34.356	34.355	3.80	19.24	1.30	26.40		1.586	0.719	245	222222522
18	296.3	9.760	9.726	26.485	35.316	43.760	34.342	34.334	2.34	33.85	2.04	36.10		0.590	0.285	294	222222522
17	347.6	8.905	8.868	26.694	35.561	44.039	34.431	34.431	1.53	41.71	2.39	41.70		0.244	0.124	345	222222522
16	395.8	8.585	8.543	26.844	35.724	44.213	34.557	34.555	1.31	43.72	2.53	44.60			0.013	393	222222552
15	448.3	7.828	7.783	26.947	35.862	44.383	34.543	34.526	1.53	49.46	2.55	44.90		0.120	0.059	445	222222522
14	495.8	7.582	7.533	26.982	35.908	44.440	34.541	34.543	1.55	50.87	2.60	45.70		0.066		492	222222525
13	596.6	6.803	6.747	27.078	36.041	44.607	34.523	34.520	1.63	58.93	2.69	46.70		0.020		592	222222525
12	796.8	5.733	5.663	27.228	36.242	44.858	34.535	34.531	1.53	74.65	2.87	49.20		-0.006	0.005	790	222222522
11	999.2	4.736	4.654	27.347	36.412	45.074	34.537	34.535	1.79	92.58	2.88	49.30			0.011	991	222222552
10	1196.7	3.876	3.785	27.466	36.574	45.278	34.569	34.564	1.96	109.00	2.89	49.60		0.000	0.006	1186	222222552
9	1498.2	3.001	2.893	27.574	36.729	45.476	34.597	34.595	2.19	127.64	2.88	49.50		0.000	0.010	1484	222222552
8	1797.0	2.458	2.332	27.641	36.826	45.601	34.621	34.618	2.41	139.32	2.84	49.00		-0.011	-0.001	1779	222222522
7	2199.2	2.015	1.861	27.698	36.909	45.707	34.645	34.643	2.67	147.68	2.79	48.90		-0.013	0.012	2175	222222522
6	2701.0	1.705	1.512	27.737	36.967	45.784	34.661	34.661	2.99	151.92	2.71	47.90		-0.005	0.000	2668	222222525
5	3202.6	1.580	1.342	27.760	36.999	45.824	34.674	34.671	3.22	151.31	2.64	47.30		0.007	-0.007	3160	222222522
3	4205.1	1.437	1.097	27.789	37.041	45.879	34.689	34.687	3.76	142.24	2.52	45.50		0.008	-0.001	4140	222222522
2	4706.4	1.441	1.044	27.795	37.050	45.891	34.692	34.693	3.92	139.12	2.48	45.40		0.007	-0.006	4628	222222522

CRUISE: MW 893 STA: 53 DATE (D/M/Y): 22- 2-89 TIME: 0221 LAT: 9 29.52 N LONG: 149 59.59 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24051E-04 1/S SOUND SPEED= 1505.3 M/S Depth= 4902 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.618	34.186	4.86	28.618	21.582	29.812	37.692	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.618	34.186	4.86	28.617	21.582	29.812	37.692	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.548	34.177	4.54	28.543	21.600	29.832	37.714	0.124	0.1	-1.14	-0.019	8.47	1.063	20.0
30	28.543	34.178	4.57	28.536	21.603	29.835	37.716	0.186	0.3	-0.94	0.065	8.48	1.064	30.0
40	28.540	34.178	4.61	28.531	21.605	29.837	37.719	0.248	0.5	-0.36	0.100	4.59	0.783	40.0
50	28.539	34.179	4.61	28.527	21.607	29.839	37.721	0.310	0.8	-0.09	0.050	1.62	0.466	50.0
100	28.416	34.307	4.52	28.392	21.747	29.981	37.865	0.621	3.2	-45.64	11.393	549.98	8.569	100.0
125	26.385	34.620	4.48	26.357	22.637	30.916	38.842	0.762	4.8	-114.91	6.802	887.85	10.888	125.0
150	22.398	34.831	4.05	22.368	23.988	32.370	40.393	0.877	6.4	-154.18	2.359	1079.61	12.006	150.0
200	14.087	34.541	3.25	14.058	25.821	34.477	42.756	1.030	9.1	-137.12	-6.707	596.36	8.923	199.8
250	11.387	34.484	2.09	11.356	26.310	35.071	43.450	1.127	11.3	-29.98	0.047	133.64	4.224	249.6
300	9.900	34.554	1.37	9.865	26.627	35.450	43.885	1.208	13.6	-24.30	0.791	114.44	3.909	299.3
350	9.249	34.578	1.19	9.210	26.754	35.605	44.066	1.277	15.9	-8.50	0.396	41.09	2.342	349.0
400	8.828	34.597	1.14	8.785	26.837	35.706	44.185	1.343	18.4	-6.96	0.148	30.00	2.001	398.7
450	8.522	34.593	1.19	8.474	26.882	35.765	44.257	1.407	21.1	-9.33	-0.241	31.60	2.054	448.4
500	8.048	34.577	1.27	7.996	26.942	35.847	44.358	1.468	24.1	-8.55	-0.300	26.80	1.892	498.1
600	7.352	34.557	1.33	7.293	27.029	35.966	44.508	1.585	30.6	-7.80	-0.208	24.93	1.824	597.4
700	6.625	34.538	1.35	6.559	27.115	36.086	44.661	1.694	37.9	-8.78	-0.188	27.64	1.921	696.6
800	6.058	34.531	1.40	5.986	27.184	36.183	44.784	1.795	45.6	-5.14	0.038	18.23	1.560	795.8
900	5.420	34.539	1.54	5.342	27.270	36.300	44.930	1.890	53.9	-6.62	0.037	22.71	1.741	894.9
1000	4.848	34.545	1.63	4.766	27.342	36.401	45.057	1.978	62.3	-5.79	0.108	20.60	1.659	994.0
1200	3.899	34.568	1.94	3.807	27.463	36.570	45.272	2.133	79.7	-3.40	0.094	12.37	1.285	1192.0
1400	3.360	34.585	2.08	3.257	27.530	36.666	45.395	2.272	98.1	-2.71	0.099	10.18	1.166	1389.8
1600	2.868	34.604	2.20	2.753	27.591	36.754	45.508	2.397	117.3	-1.98	0.076	7.49	1.000	1587.3
1800	2.518	34.618	2.31	2.391	27.634	36.816	45.588	2.513	137.4	-1.86	0.079	7.22	0.982	1784.7
2000	2.290	34.630	2.46	2.150	27.663	36.858	45.642	2.622	158.4	-0.96	0.057	4.07	0.737	1981.9
2200	2.086	34.642	2.60	1.931	27.690	36.897	45.692	2.725	180.6	-0.96	0.048	4.00	0.730	2179.0
2400	1.932	34.649	2.74	1.762	27.709	36.925	45.729	2.825	203.9	-0.67	0.040	2.91	0.623	2375.8
2600	1.815	34.655	2.86	1.629	27.724	36.947	45.758	2.921	228.5	-0.78	0.031	3.20	0.654	2572.4
2800	1.701	34.663	3.01	1.499	27.740	36.970	45.788	3.015	254.2	-0.53	0.033	2.44	0.571	2768.9
3000	1.623	34.668	3.13	1.404	27.751	36.987	45.809	3.106	281.2	-0.50	0.029	2.32	0.556	2965.2
3200	1.546	34.674	3.28	1.309	27.763	37.003	45.831	3.196	309.5	-0.34	0.019	1.58	0.459	3161.3
3400	1.516	34.677	3.38	1.259	27.768	37.012	45.842	3.284	339.4	-0.23	0.015	1.13	0.388	3357.2
3600	1.504	34.679	3.45	1.227	27.772	37.018	45.849	3.373	371.2	-0.17	0.011	0.86	0.339	3553.0
3800	1.495	34.682	3.51	1.198	27.776	37.023	45.856	3.463	404.9	-0.18	0.012	0.93	0.353	3748.5
4000	1.482	34.684	3.59	1.164	27.781	37.030	45.864	3.552	440.6	-0.20	0.014	1.08	0.379	3943.9
4200	1.465	34.687	3.70	1.125	27.786	37.037	45.874	3.642	478.2	-0.19	0.012	1.00	0.365	4139.2
4400	1.461	34.689	3.77	1.099	27.789	37.041	45.880	3.732	517.7	-0.07	0.004	0.36	0.218	4334.2
4600	1.447	34.692	3.86	1.062	27.794	37.048	45.888	3.823	559.4	-0.30	0.022	1.73	0.480	4529.1
4800	1.443	34.694	3.96	1.034	27.797	37.053	45.895	3.914	602.9	-0.05	0.004	0.30	0.200	4723.9
4907	1.451	34.694	3.97	1.030	27.798	37.054	45.896	3.963	627.2	-0.03	0.004	0.30	0.000	4828.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.2	28.665	28.664	21.564	29.793	37.671	34.182	34.182	4.84	1.11	0.10	9.00				0	222222555
23	47.3	28.544	28.532	21.608	29.840	37.721	34.182	34.183	4.83	1.11	0.09	9.10				47	222222555
22	97.6	28.093	28.069	21.924	30.164	38.054	34.401	34.406	4.82	1.31	0.15	9.20				97	222222555
21	145.9	20.614	20.587	24.547	32.980	41.051	34.922	34.863	3.86	4.43	0.52	13.90				145	222222555
20	221.6	12.500	12.470	26.105	34.823	43.159	34.493	34.492	2.65	21.16	1.61	30.60				220	222222555
19	322.4	9.743	9.706	26.654	35.484	43.925	34.554	34.556	1.27	36.47	2.37	41.50				320	222222555
18	396.6	8.786	8.743	26.843	35.713	44.194	34.596	34.598	1.16	41.40	2.55	44.40				393	222222555
17	497.2	7.973	7.922	26.954	35.861	44.376	34.577	34.575	1.26	47.05	2.63	45.40				493	222222555
16	596.0	7.163	7.106	27.052	35.997	44.548	34.552	34.552	1.33	55.00	2.72	46.80				591	222222555
15	747.0	6.048	5.981	27.186	36.186	44.786	34.533	34.532	1.36	69.61	2.86	48.50				741	222222555
14	897.9	5.089	5.014	27.310	36.357	45.002	34.541	34.541	1.57	84.82	2.91	49.40				890	222222555
13	1098.9	4.184	4.098	27.427	36.520	45.208	34.561	34.560	1.88	101.34	2.89	49.20				1089	222222555
12	1299.4	3.584	3.487	27.503	36.627	45.345	34.579	34.574	2.03	114.64	2.88	49.20				1288	222222555
11	1501.0	3.011	2.903	27.573	36.727	45.474	34.598	34.599	2.13	126.43	2.88	49.10				1487	222222555
10	1700.1	2.681	2.560	27.614	36.787	45.550	34.611	34.610	2.27	134.49	2.87	49.00				1683	222222555
9	1898.8	2.376	2.243	27.633	36.823	45.603	34.602	34.624	2.40	140.63	2.83	48.70				1879	222222555
8	2097.2	2.169	2.022	27.679	36.881	45.671	34.637	34.635	2.54	145.07	2.81	48.40				2074	222222555
7	2299.3	2.017	1.855	27.700	36.911	45.710	34.647	34.645	2.65	147.99	2.78	48.20				2273	222222555
6	2503.4	1.872	1.694	27.719	36.939	45.746	34.655	34.652	2.81	149.80	2.75	48.30				2474	222222555
5	3003.6	1.631	1.411	27.751	36.987	45.809	34.670	34.667	3.11	151.51	2.67	47.70				2965	222222555
3	4005.3	1.482	1.163	27.781	37.030	45.865	34.684	34.683	3.60	145.27	2.56	46.10				3945	222222555
1	4911.1	1.452	1.030	27.797	37.053	45.895	34.693	34.692	3.96	137.61	2.47	45.10				4827	222222555

CRUISE: MW 893 STA: 54 DATE (D/M/Y): 22- 2-89 TIME: 1110 LAT: 9 29.41 N LONG: 150 49.64 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24046E-04 1/S SOUND SPEED= 1509.2 M/S Depth= 5483 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.602	34.282	5.08	28.602	21.660	29.889	37.768	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.602	34.282	5.08	28.601	21.660	29.889	37.768	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.610	34.281	4.81	28.605	21.658	29.887	37.766	0.123	0.1	0.31	0.025	-1.95	-0.510	20.0
30	28.613	34.281	4.86	28.606	21.657	29.887	37.766	0.184	0.3	-0.04	-0.022	-0.10	-0.116	30.0
40	28.614	34.281	4.81	28.605	21.658	29.887	37.766	0.246	0.5	-0.13	0.029	1.55	0.455	40.0
50	28.616	34.281	4.81	28.604	21.658	29.887	37.767	0.308	0.8	-0.03	-0.002	0.24	0.177	50.0
100	28.402	34.351	4.77	28.378	21.785	30.019	37.902	0.615	3.1	-87.01	12.338	872.48	10.794	100.0
125	24.726	34.773	4.64	24.699	23.263	31.582	39.547	0.747	4.6	-147.68	5.156	1157.75	12.434	125.0
150	20.288	34.848	4.04	20.260	24.578	33.022	41.103	0.848	6.1	-183.19	0.940	1199.15	12.654	150.0
200	13.581	34.488	3.80	13.553	25.885	34.560	42.858	0.979	8.4	-63.70	-2.656	268.22	5.985	199.8
250	11.650	34.538	1.98	11.619	26.303	35.054	43.421	1.077	10.6	-41.02	-0.084	181.49	4.923	249.5
300	10.031	34.555	1.39	9.996	26.605	35.422	43.852	1.158	12.9	-18.76	1.876	112.28	3.872	299.3
350	9.360	34.610	1.11	9.321	26.762	35.607	44.063	1.228	15.2	-10.50	0.654	54.25	2.692	349.0
400	8.958	34.614	1.10	8.914	26.830	35.693	44.166	1.294	17.7	-5.56	0.004	22.03	1.715	398.7
450	8.644	34.605	1.16	8.596	26.873	35.750	44.236	1.358	20.5	-8.37	-0.438	24.49	1.809	448.4
500	8.206	34.584	1.24	8.154	26.924	35.822	44.327	1.420	23.5	-8.98	-0.498	25.10	1.831	498.0
600	7.338	34.556	1.45	7.279	27.031	35.968	44.511	1.536	30.0	-5.30	0.098	20.99	1.674	597.3
700	6.605	34.542	1.38	6.540	27.120	36.093	44.668	1.645	37.2	-7.17	-0.157	22.16	1.720	696.6
800	5.995	34.535	1.43	5.924	27.195	36.197	44.801	1.746	44.9	-5.88	-0.018	19.60	1.618	795.7
900	5.346	34.533	1.67	5.270	27.274	36.308	44.941	1.839	53.0	-5.18	0.040	17.90	1.546	894.9
1000	4.872	34.545	1.65	4.789	27.339	36.397	45.052	1.927	61.5	-4.20	0.128	15.90	1.457	993.9
1200	4.083	34.563	1.91	3.990	27.440	36.538	45.231	2.086	79.3	-3.28	0.082	11.81	1.256	1191.9
1400	3.406	34.582	2.06	3.302	27.523	36.657	45.384	2.228	98.1	-3.21	0.109	11.97	1.264	1389.7
1600	2.926	34.600	2.18	2.810	27.583	36.743	45.494	2.355	117.5	-2.10	0.083	8.02	1.035	1587.3
1800	2.587	34.616	2.30	2.459	27.626	36.804	45.573	2.472	137.8	-1.70	0.064	6.46	0.929	1784.7
2000	2.288	34.629	2.47	2.147	27.662	36.857	45.642	2.582	159.0	-1.21	0.063	4.97	0.814	1981.9
2200	2.075	34.641	2.60	1.920	27.691	36.898	45.694	2.685	181.2	-1.02	0.054	4.28	0.756	2178.9
2400	1.949	34.650	2.72	1.779	27.708	36.923	45.726	2.784	204.5	-0.74	0.043	3.21	0.655	2375.7
2600	1.818	34.658	2.87	1.632	27.726	36.949	45.760	2.881	229.0	-0.55	0.027	2.35	0.561	2572.4
2800	1.714	34.664	3.00	1.512	27.740	36.969	45.786	2.974	254.8	-0.51	0.024	2.22	0.544	2768.8
3000	1.652	34.668	3.11	1.432	27.749	36.983	45.804	3.067	282.1	-0.45	0.023	2.05	0.523	2965.1
3200	1.592	34.672	3.22	1.353	27.758	36.996	45.821	3.157	310.9	-0.35	0.019	1.64	0.469	3161.2
3400	1.549	34.676	3.34	1.292	27.765	37.007	45.835	3.248	341.2	-0.30	0.015	1.40	0.433	3357.2
3600	1.513	34.679	3.44	1.236	27.771	37.016	45.847	3.337	373.2	-0.24	0.017	1.23	0.405	3552.9
3800	1.486	34.683	3.55	1.189	27.778	37.025	45.859	3.426	406.9	-0.25	0.017	1.30	0.416	3748.5
4000	1.467	34.686	3.65	1.149	27.783	37.032	45.868	3.516	442.3	-0.20	0.014	1.06	0.376	3943.9
4200	1.458	34.688	3.73	1.119	27.786	37.038	45.875	3.605	479.7	-0.14	0.011	0.79	0.325	4139.1
4400	1.446	34.690	3.83	1.084	27.791	37.044	45.883	3.695	519.1	-0.17	0.011	0.92	0.350	4334.2
4600	1.440	34.692	3.92	1.055	27.794	37.049	45.890	3.785	560.4	-0.14	0.010	0.81	0.328	4529.1
4800	1.443	34.694	3.99	1.034	27.797	37.053	45.895	3.876	604.0	-0.09	0.007	0.54	0.270	4723.8
5000	1.455	34.695	4.04	1.022	27.799	37.055	45.898	3.967	649.8	-0.04	0.003	0.22	0.172	4918.4
5200	1.467	34.696	4.09	1.009	27.800	37.058	45.901	4.061	698.3	-0.06	0.005	0.38	0.224	5112.8
5400	1.486	34.697	4.12	1.002	27.802	37.059	45.903	4.155	749.3	-0.02	0.004	0.38	0.000	5307.0
5483	1.495	34.697	4.12	1.001	27.802	37.060	45.903	4.195	771.3	-0.02	0.003	0.38	0.000	5387.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	21.7	28.607	28.601	21.669	29.898	37.777	34.294	34.293	4.95	1.61	0.13	9.00		1.672	0.845	21	222222522
23	48.6	28.613	28.601	21.669	29.898	37.777	34.294	34.298	4.77	1.61	0.13	9.00		1.695	0.868	48	222222522
22	71.1	28.609	28.592	21.672	29.901	37.780	34.294	34.295	4.97	1.61	0.13	9.00				70	222222555
21	96.8	27.287	27.264	22.334	30.591	38.497	34.600	34.550	4.86	1.81	0.17	9.00		1.690	0.849	96	222222522
20	116.8	25.120	25.095	23.137	31.447	39.401	34.766	34.781	4.73	1.81	0.22	9.00		1.738	0.922	116	222222522
19	137.0	22.748	22.721	23.888	32.261	40.274	34.833	34.836	4.14	3.53	0.42	11.60		2.009	0.876	136	222222522
18	172.1	14.728	14.702	25.717	34.349	42.605	34.584	34.602	3.96	9.87	0.86	19.90				171	222222555
17	195.7	12.805	12.778	26.066	34.771	43.096	34.520	34.517	2.57	21.46	1.62	30.60		0.994	0.473	194	222222522
16	247.0	10.716	10.686	26.454	35.243	43.646	34.514	34.516	1.64	31.63	2.19	38.80				245	222222555
15	296.7	9.691	9.657	26.687	35.518	43.961	34.586	34.584	1.10	37.27	2.47	43.30		0.187	0.083	294	222222522
14	398.8	8.958	8.915	26.830	35.692	44.165	34.614	34.613	1.05	40.40	2.58	45.40				396	222222555
13	496.5	8.387	8.335	26.906	35.795	44.292	34.595	34.597	1.20	43.82	2.63	45.90		0.033		493	222222525
12	747.9	6.492	6.423	27.133	36.111	44.692	34.538	34.536	1.39	63.57	2.86	48.60		-0.008		742	222222525
11	998.1	4.751	4.669	27.352	36.416	45.077	34.545	34.546		90.97	2.94	49.90			0.025	990	225222552
10	1491.6	2.993	2.886	27.574	36.730	45.477	34.597	34.598	2.16	127.84	2.89	49.60				1477	222222555
9	1999.6	2.220	2.080	27.671	36.870	45.657	34.633	34.632	2.49	143.45	2.82	49.00		0.005	0.017	1978	222222522
8	2249.7	1.975	1.818	27.703	36.916	45.717	34.647	34.647	2.70	148.19	2.81	48.80		-0.007	-0.001	2225	222222522
7	2499.7	1.829	1.652	27.724	36.946	45.755	34.657	34.656	2.85	150.20	2.76	48.30		-0.018	-0.004	2470	222222522
6	2751.7	1.722	1.524	27.738	36.967	45.784	34.664	34.664		151.01	2.71	47.90				2718	225222555
5	3001.6	1.647	1.427	27.749	36.984	45.805	34.668	34.667	3.12	151.01	2.68	47.60		0.001	-0.007	2963	222222522
4	3754.1	1.498	1.206	27.776	37.022	45.855	34.682	34.683	3.52	146.88	2.59	46.40		-0.004	-0.007	3700	222222522
3	4506.2	1.446	1.072	27.792	37.046	45.886	34.691	34.690	3.85	140.23	2.50	45.30		-0.004	-0.007	4433	222222522
2	5007.4	1.456	1.023	27.798	37.055	45.897	34.694	34.695	4.01	136.50	2.46	44.80				4921	222222555

CRUISE: MW 893 STA: 55 DATE (D/M/Y): 22- 2-89 TIME: 2015 LAT: 9 29.22 N LONG: 151 40.31 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24038E-04 1/S SOUND SPEED= 1506.5 M/S Depth= 5091 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.240	34.268	4.49	28.240	21.769	30.006	37.894	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.240	34.268	4.49	28.239	21.769	30.006	37.894	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.261	34.259	5.18	28.256	21.756	29.993	37.880	0.121	0.1	-0.05	-0.044	-0.40	-0.232	20.0
30	28.264	34.258	5.21	28.257	21.755	29.993	37.880	0.182	0.3	0.27	-0.030	-2.59	-0.589	30.0
40	28.267	34.258	5.17	28.258	21.755	29.992	37.879	0.242	0.5	-0.01	0.015	0.32	0.207	40.0
50	28.269	34.259	5.05	28.258	21.755	29.993	37.880	0.303	0.8	-0.10	0.037	1.46	0.442	50.0
100	27.986	34.326	5.10	27.962	21.903	30.146	38.039	0.606	3.1	-44.60	11.253	537.38	8.473	100.0
125	26.369	34.680	4.83	26.341	22.687	30.966	38.892	0.743	4.7	-140.40	4.419	1036.77	11.768	125.0
150	21.343	34.792	4.24	21.314	24.251	32.665	40.716	0.852	6.2	-175.67	4.623	1229.46	12.816	150.0
200	14.878	34.585	3.60	14.848	25.686	34.313	42.565	0.996	8.7	-92.35	-5.075	391.91	7.236	199.8
250	11.291	34.421	2.48	11.260	26.278	35.045	43.428	1.099	11.1	-52.24	1.340	260.14	5.895	249.6
300	9.987	34.586	1.11	9.952	26.637	35.456	43.887	1.180	13.3	-21.61	1.414	115.93	3.935	299.3
350	9.418	34.628	0.80	9.379	26.766	35.608	44.062	1.249	15.6	-8.52	-0.019	33.91	2.128	349.0
400	8.950	34.615	0.83	8.906	26.832	35.695	44.169	1.315	18.1	-8.27	-0.283	27.50	1.916	398.7
450	8.652	34.605	0.91	8.604	26.872	35.749	44.235	1.378	20.9	-7.93	-0.318	25.00	1.827	448.4
500	8.258	34.591	0.93	8.205	26.922	35.817	44.319	1.440	23.9	-8.26	-0.360	24.93	1.825	498.1
600	7.269	34.552	1.03	7.210	27.037	35.978	44.524	1.557	30.5	-9.24	-0.317	27.75	1.925	597.3
700	6.453	34.533	1.25	6.388	27.133	36.113	44.695	1.665	37.6	-7.45	-0.050	25.03	1.829	696.6
800	5.844	34.532	1.28	5.773	27.212	36.221	44.831	1.764	45.1	-5.35	0.050	19.02	1.594	795.8
900	5.344	34.537	1.33	5.267	27.277	36.311	44.944	1.857	53.2	-5.41	0.069	19.05	1.595	894.9
1000	4.841	34.545	1.53	4.758	27.342	36.402	45.059	1.944	61.6	-5.08	0.086	18.05	1.553	994.0
1200	3.978	34.564	1.86	3.885	27.451	36.555	45.253	2.100	79.1	-4.37	0.138	16.10	1.466	1191.9
1400	3.212	34.587	2.05	3.110	27.546	36.689	45.426	2.236	97.1	-2.56	0.082	9.29	1.114	1389.7
1600	2.737	34.605	2.22	2.624	27.603	36.773	45.533	2.358	115.8	-1.88	0.085	7.32	0.989	1587.3
1800	2.463	34.619	2.33	2.337	27.639	36.824	45.599	2.471	135.4	-1.38	0.064	5.43	0.852	1784.7
2000	2.231	34.632	2.42	2.091	27.670	36.868	45.655	2.579	156.2	-1.30	0.068	5.33	0.844	1981.9
2200	2.031	34.644	2.58	1.877	27.696	36.906	45.704	2.680	177.9	-0.85	0.049	3.63	0.696	2178.9
2400	1.908	34.652	2.69	1.739	27.713	36.930	45.736	2.778	200.9	-0.68	0.035	2.88	0.621	2375.7
2600	1.792	34.659	2.83	1.606	27.729	36.953	45.765	2.873	225.2	-0.60	0.024	2.45	0.572	2572.4
2800	1.698	34.664	2.96	1.495	27.741	36.972	45.789	2.966	250.8	-0.52	0.032	2.41	0.567	2768.8
3000	1.622	34.670	3.09	1.402	27.752	36.988	45.811	3.058	277.8	-0.45	0.026	2.09	0.528	2965.1
3200	1.565	34.674	3.21	1.328	27.761	37.001	45.827	3.148	306.2	-0.40	0.022	1.85	0.498	3161.2
3400	1.515	34.678	3.35	1.258	27.769	37.013	45.843	3.236	336.2	-0.29	0.019	1.46	0.441	3357.2
3600	1.492	34.681	3.45	1.216	27.774	37.020	45.853	3.325	367.7	-0.19	0.011	0.95	0.357	3552.9
3800	1.477	34.684	3.54	1.180	27.779	37.027	45.861	3.413	401.2	-0.16	0.014	0.89	0.345	3748.5
4000	1.460	34.687	3.63	1.142	27.784	37.034	45.870	3.502	436.5	-0.18	0.012	0.96	0.357	3943.9
4200	1.448	34.689	3.72	1.108	27.788	37.040	45.878	3.591	473.7	-0.20	0.010	1.00	0.366	4139.1
4400	1.435	34.691	3.81	1.073	27.792	37.046	45.885	3.681	512.9	-0.12	0.008	0.67	0.300	4334.2
4600	1.430	34.693	3.89	1.046	27.795	37.051	45.892	3.770	554.1	-0.13	0.011	0.77	0.322	4529.1
4800	1.439	34.694	3.94	1.030	27.798	37.054	45.896	3.861	597.4	-0.06	0.005	0.36	0.221	4723.8
5000	1.448	34.695	3.99	1.015	27.799	37.057	45.899	3.952	643.2	-0.08	0.008	0.53	0.267	4918.4
5107	1.453	34.696	4.01	1.007	27.801	37.059	45.902	4.002	668.7	-0.07	0.007	0.53	0.000	5022.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
23	47.2	28.256	28.244	21.764	30.002	37.889	34.264	34.262	4.63	1.21	0.14	9.00		1.665	0.873	46	222222522
22	97.2	26.524	26.501	22.633	30.908	38.830	34.674	34.658	4.55	1.81	0.24	9.10		1.783	0.914	96	222222522
21	148.2	18.791	18.764	24.938	33.429	41.554	34.812	34.838	3.74	5.44	0.66	15.80		1.763	0.880	147	222222522
20	197.6	13.103	13.076	25.991	34.685	43.000	34.501	34.517	2.83	17.43	1.45	27.90		1.213	0.609	196	222222522
19	247.8	10.788	10.758	26.460	35.245	43.646	34.538	34.535	1.30	30.83	2.26	39.60			0.208	246	222222552
18	296.7	9.795	9.761	26.699	35.525	43.964	34.624	34.621	0.75	36.37	2.55	44.50		0.093	0.051	294	222222522
17	347.0	9.275	9.237	26.787	35.636	44.096	34.626	34.626	0.77	38.99	2.60	45.40		0.060		344	222222525
16	396.8	8.888	8.845	26.838	35.704	44.180	34.610	34.616	0.85	41.00	2.64	45.90		0.045		394	222222525
15	498.4	8.169	8.118	26.932	35.830	44.337	34.586	34.584	1.20	46.74	2.73	47.00			0.036	494	222222552
14	597.7	7.296	7.238	27.034	35.973	44.518	34.553	34.551	1.05	55.10	2.80	48.00		0.030	0.007	593	222222522
13	697.2	6.534	6.469	27.124	36.100	44.679	34.535	34.533	1.23	63.57	2.87	48.80		0.007		692	222222525
12	797.5	5.904	5.833	27.204	36.211	44.818	34.532	34.529	1.29	72.63	2.93	49.70		-0.005	0.018	791	222222522
11	996.6	4.771	4.689	27.351	36.413	45.074	34.546	34.543	1.55	91.47	2.97	50.40			0.027	988	222222552
10	1197.1	3.976	3.884	27.451	36.555	45.253	34.564	34.566	1.91	107.19	2.92	49.70		-0.006		1186	222222525
9	1401.2	3.234	3.132	27.543	36.685	45.420	34.586	34.584	2.05	122.90	2.91	49.70		0.015		1388	222222525
8	1798.0	2.476	2.350	27.637	36.821	45.595	34.618	34.618	2.34	139.52	2.85	49.50		-0.014	0.000	1780	222222525
7	2001.5	2.247	2.107	27.668	36.865	45.651	34.631	34.633	2.43	144.56	2.85	49.30		-0.014	0.006	1980	222222522
6	2503.5	1.854	1.676	27.721	36.941	45.750	34.656	34.656	2.78	151.31	2.77	48.40		-0.013	0.013	2474	222222522
5	3044.1	1.611	1.388	27.754	36.991	45.814	34.671	34.672	3.12	151.92	2.67	47.50		0.005	0.000	3005	222222525
4	3533.1	1.501	1.232	27.773	37.018	45.849	34.681	34.680	3.44	147.68	2.60	46.50			0.000	3484	222222555
3	4012.9	1.460	1.141	27.785	37.035	45.871	34.687	34.686	3.65	143.86	2.53	45.80		0.004	0.000	3952	222222525
2	4506.6	1.434	1.061	27.793	37.048	45.888	34.691	34.694	3.86	140.13	2.48	45.20		-0.002	0.001	4434	222222522
1	5108.2	1.453	1.007	27.800	37.058	45.901	34.696	34.697	4.03	136.40	2.45	44.80		0.008	0.000	5019	222222525

CRUISE: MW 893 STA: 56 DATE (D/M/Y): 23- 2-89 TIME: 0514 LAT: 9 29.58 N LONG: 152 30.25 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24053E-04 1/S SOUND SPEED= 1507.2 M/S Depth= 5214 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.359	34.201	4.61	28.359	21.678	29.914	37.799	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.359	34.201	4.61	28.359	21.678	29.914	37.799	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.217	34.276	5.12	28.212	21.783	30.021	37.909	0.121	0.1	-6.17	-0.080	46.18	2.483	20.0
30	28.197	34.276	5.07	28.189	21.790	30.029	37.917	0.182	0.3	-1.34	0.049	11.23	1.224	30.0
40	28.180	34.280	5.18	28.171	21.800	30.039	37.927	0.242	0.5	-8.91	5.133	159.42	4.613	40.0
50	28.058	34.352	5.05	28.046	21.895	30.136	38.027	0.302	0.8	-12.97	2.730	147.98	4.445	50.0
100	27.794	34.481	4.99	27.771	22.081	30.328	38.223	0.595	3.0	-46.91	10.154	530.88	8.419	100.0
125	25.132	34.831	4.96	25.104	23.184	31.492	39.446	0.730	4.6	-175.55	5.898	1383.88	13.592	125.0
150	20.317	34.813	4.15	20.289	24.544	32.987	41.067	0.833	6.0	-195.02	1.772	1334.72	13.349	150.0
200	14.061	34.520	4.02	14.032	25.816	34.468	42.748	0.968	8.4	-78.56	-5.439	298.17	6.309	199.8
250	11.006	34.367	2.94	10.975	26.288	35.067	43.461	1.068	10.7	-40.14	1.630	204.99	5.231	249.5
300	9.727	34.503	1.55	9.693	26.616	35.447	43.890	1.148	12.9	-15.91	1.851	99.15	3.638	299.3
350	9.076	34.564	1.17	9.038	26.771	35.629	44.098	1.218	15.2	-5.78	1.217	45.38	2.461	349.0
400	8.882	34.614	0.98	8.839	26.842	35.708	44.184	1.283	17.7	-10.60	-0.334	35.38	2.173	398.7
450	8.401	34.601	1.05	8.354	26.907	35.795	44.292	1.345	20.4	-7.11	-0.343	20.96	1.673	448.4
500	8.055	34.582	1.17	8.003	26.946	35.850	44.361	1.406	23.3	-9.80	-0.781	22.45	1.731	498.0
600	7.204	34.543	1.43	7.146	27.038	35.982	44.531	1.521	29.8	-8.47	-0.365	24.00	1.790	597.3
700	6.536	34.534	1.28	6.471	27.123	36.099	44.678	1.629	36.9	-6.42	-0.039	21.64	1.700	696.5
800	5.848	34.531	1.38	5.777	27.210	36.219	44.829	1.729	44.6	-5.89	0.029	20.46	1.653	795.7
900	5.336	34.535	1.51	5.260	27.276	36.311	44.945	1.822	52.6	-5.36	0.049	18.63	1.577	894.8
1000	4.913	34.541	1.70	4.830	27.331	36.387	45.040	1.909	61.1	-3.71	0.068	13.16	1.326	993.9
1200	4.175	34.560	1.78	4.081	27.428	36.521	45.210	2.070	79.1	-3.64	0.094	13.22	1.328	1191.9
1400	3.486	34.579	1.98	3.381	27.513	36.643	45.366	2.214	98.1	-3.19	0.088	11.49	1.239	1389.7
1600	2.874	34.599	2.18	2.759	27.586	36.749	45.502	2.342	117.7	-2.50	0.094	9.41	1.121	1587.3
1800	2.476	34.617	2.37	2.350	27.637	36.821	45.595	2.457	137.7	-1.75	0.075	6.80	0.953	1784.7
2000	2.217	34.630	2.53	2.078	27.669	36.868	45.656	2.565	158.5	-1.17	0.070	4.97	0.815	1981.9
2200	2.034	34.641	2.64	1.879	27.693	36.903	45.701	2.667	180.4	-0.91	0.049	3.82	0.714	2178.9
2400	1.902	34.649	2.76	1.732	27.711	36.929	45.734	2.765	203.4	-0.73	0.044	3.20	0.654	2375.7
2600	1.783	34.658	2.88	1.598	27.729	36.954	45.766	2.860	227.7	-0.63	0.031	2.70	0.600	2572.4
2800	1.690	34.665	3.01	1.488	27.742	36.973	45.791	2.953	253.2	-0.52	0.026	2.26	0.550	2768.8
3000	1.621	34.669	3.13	1.401	27.752	36.988	45.810	3.044	280.1	-0.36	0.017	1.60	0.462	2965.1
3200	1.574	34.674	3.24	1.336	27.760	36.999	45.825	3.134	308.6	-0.35	0.021	1.65	0.470	3161.2
3400	1.522	34.677	3.36	1.265	27.768	37.011	45.841	3.223	338.6	-0.31	0.024	1.59	0.461	3357.1
3600	1.483	34.681	3.51	1.207	27.775	37.022	45.854	3.312	370.2	-0.28	0.018	1.39	0.431	3552.9
3800	1.465	34.685	3.61	1.169	27.781	37.029	45.864	3.400	403.5	-0.19	0.013	1.01	0.367	3748.5
4000	1.452	34.687	3.70	1.135	27.785	37.035	45.872	3.488	438.7	-0.17	0.011	0.91	0.349	3943.9
4200	1.438	34.689	3.80	1.099	27.789	37.042	45.880	3.577	475.7	-0.15	0.009	0.82	0.330	4139.1
4400	1.436	34.691	3.87	1.075	27.792	37.046	45.886	3.666	514.8	-0.13	0.008	0.68	0.301	4334.2
4600	1.433	34.693	3.95	1.048	27.795	37.050	45.891	3.756	556.0	-0.13	0.008	0.71	0.307	4529.1
4800	1.437	34.694	4.00	1.029	27.798	37.054	45.896	3.846	599.4	-0.09	0.006	0.53	0.265	4723.8
5000	1.445	34.695	4.06	1.012	27.799	37.057	45.900	3.938	645.1	-0.06	0.005	0.38	0.226	4918.4
5200	1.462	34.696	4.09	1.005	27.801	37.059	45.902	4.030	693.3	-0.02	0.004	0.38	0.000	5112.7
5209	1.464	34.696	4.08	1.005	27.801	37.059	45.902	4.035	695.6	-0.02	0.003	0.38	0.000	5121.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	11.7	28.245	28.242	21.780	30.018	37.904	34.285	34.284	5.17	1.51	0.13	9.00		1.697	0.905	11	222222522
23	97.5	27.806	27.784	22.030	30.277	38.173	34.419	34.421	5.00	1.51	0.16	9.00		1.719	0.933	96	222222522
22	148.0	21.989	21.960	24.041	32.436	40.471	34.750	34.768	4.08	4.13	0.48	12.50		1.746	0.905	147	222222522
21	197.4	15.519	15.488	25.577	34.180	42.410	34.627	34.626	3.53	11.18	1.01	21.90		1.544	0.760	196	222222522
20	247.2	11.001	10.971	26.320	35.098	43.492	34.407	34.403	2.43	27.10	1.86	34.20		0.800	0.389	245	222222522
19	296.7	9.631	9.597	26.626	35.461	43.907	34.495	34.492	1.50	37.68	2.33	41.30			0.132	294	222222552
18	395.3	8.819	8.776	26.848	35.717	44.196	34.609	34.607	1.01	41.30	2.57	45.50		0.041	0.013	392	222222522
17	495.7	8.110	8.059	26.942	35.843	44.352	34.588	34.585	1.08	46.04	2.67	46.70		0.030	0.011	492	222222522
16	597.6	7.271	7.213	27.033	35.973	44.519	34.547	34.550	1.37	54.20	2.71	47.20		0.026	0.012	593	222222522
15	747.3	6.278	6.209	27.154	36.143	44.733	34.529	34.528	1.34	66.89	2.84	48.90			0.024	741	222222552
14	897.8	5.384	5.307	27.266	36.298	44.930	34.529	34.530	1.73	79.79	2.83	48.80			-0.005	890	222222552
13	1099.2	4.469	4.381	27.389	36.467	45.142	34.551	34.551	1.70	97.31	2.93	50.10		-0.008	0.018	1090	222222522
12	1298.6	3.689	3.591	27.489	36.608	45.321	34.575	34.573	1.95	112.73	2.91	50.10				1287	222222555
11	1495.5	3.129	3.020	27.556	36.704	45.445	34.590	34.589	2.08	125.42	2.89	50.00				1481	222222555
10	1695.1	2.706	2.585	27.608	36.780	45.542	34.607	34.607	2.24	134.49	2.86	49.50				1678	222222555
9	1899.5	2.374	2.241	27.650	36.840	45.620	34.623	34.620	2.43	141.14	2.88	49.20				1880	222222555
8	2098.6	2.138	1.991	27.680	36.883	45.676	34.635	34.638	2.58	145.67	2.81	48.90				2076	222222555
7	2401.3	1.889	1.720	27.713	36.931	45.737	34.650	34.653	2.76	150.10	2.75	48.50				2374	222222555
6	2702.1	1.717	1.524	27.738	36.967	45.783	34.663		2.97	152.22	2.71	48.20				2669	252222555
5	3203.8	1.554	1.316	27.763	37.003	45.830	34.675	34.677	3.26	151.11		46.90				3161	222252555
4	3704.6	1.466	1.180	27.779	37.027	45.861	34.683	34.684	3.56	146.07	2.56	46.20				3651	222222555
3	4205.9	1.437	1.097	27.789	37.042	45.880	34.689	34.690	3.76	141.34	2.50	45.60				4141	222222555
2	4705.0	1.434	1.037	27.796	37.051	45.893	34.692	34.693	3.97	138.32	2.46	45.20				4627	222222555
1	5214.6	1.464	1.005	27.800	37.057	45.901	34.695	34.697	4.03	136.30	2.45	44.90				5122	222222555

CRUISE: MW 893 STA: 57 DATE (D/M/Y): 23- 2-89 TIME: 1410 LAT: 9 29.81 N LONG: 153 19.61 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24063E-04 1/S SOUND SPEED= 1508.7 M/S Depth= 5406 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.894	34.389	5.10	27.894	21.972	30.217	38.110	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.894	34.389	5.10	27.894	21.972	30.217	38.110	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.902	34.381	4.92	27.897	21.965	30.209	38.103	0.117	0.1	0.00	0.055	0.96	0.358	20.0
30	27.904	34.381	4.93	27.897	21.965	30.210	38.103	0.176	0.3	-0.10	0.014	1.04	0.373	30.0
40	27.906	34.381	4.85	27.896	21.965	30.210	38.104	0.234	0.5	-0.01	-0.043	-0.71	-0.307	40.0
50	27.909	34.381	4.80	27.897	21.965	30.210	38.103	0.293	0.7	-0.02	-0.008	0.00	-0.021	50.0
100	27.865	34.445	4.79	27.842	22.031	30.276	38.170	0.587	3.0	-26.05	9.691	369.00	7.017	100.0
125	26.308	34.755	4.76	26.279	22.763	31.043	38.969	0.725	4.6	-119.45	5.940	972.77	11.394	125.0
150	23.485	34.898	4.39	23.454	23.726	32.078	40.072	0.841	6.2	-164.31	1.573	1064.25	11.917	150.0
200	14.411	34.542	3.62	14.382	25.754	34.398	42.666	0.995	8.9	-115.61	-7.081	473.83	7.952	199.8
250	11.026	34.376	2.84	10.995	26.291	35.069	43.463	1.096	11.2	-39.01	0.941	188.22	5.012	249.6
300	9.791	34.472	1.71	9.756	26.581	35.410	43.851	1.177	13.5	-16.79	2.022	105.96	3.760	299.3
350	9.234	34.556	1.29	9.195	26.739	35.591	44.053	1.249	15.9	-9.02	1.039	54.97	2.708	349.0
400	8.841	34.578	1.24	8.797	26.820	35.689	44.167	1.315	18.4	-6.22	0.115	26.46	1.879	398.7
450	8.510	34.577	1.29	8.462	26.872	35.755	44.247	1.379	21.2	-7.43	-0.144	25.99	1.862	448.4
500	8.143	34.569	1.34	8.091	26.922	35.822	44.330	1.441	24.2	-8.41	-0.240	27.42	1.913	498.1
600	7.408	34.543	1.51	7.349	27.010	35.944	44.484	1.559	30.8	-5.95	0.031	22.33	1.726	597.3
700	6.705	34.528	1.61	6.639	27.096	36.064	44.635	1.669	38.1	-6.60	-0.076	22.00	1.713	696.6
800	6.128	34.533	1.29	6.056	27.177	36.172	44.770	1.773	46.0	-6.20	0.025	21.68	1.701	795.8
900	5.471	34.534	1.44	5.393	27.259	36.287	44.915	1.868	54.3	-5.83	0.058	20.44	1.652	894.9
1000	4.878	34.543	1.55	4.795	27.337	36.394	45.049	1.957	62.9	-5.96	0.106	21.36	1.688	994.0
1200	4.020	34.563	1.77	3.927	27.446	36.548	45.244	2.115	80.5	-3.85	0.093	13.74	1.354	1192.0
1400	3.352	34.583	2.01	3.249	27.529	36.665	45.395	2.254	99.0	-2.70	0.080	9.77	1.142	1389.7
1600	2.900	34.599	2.15	2.785	27.585	36.746	45.498	2.380	118.2	-1.95	0.081	7.49	1.000	1587.3
1800	2.555	34.616	2.26	2.427	27.629	36.809	45.579	2.497	138.4	-1.48	0.070	5.90	0.887	1784.7
2000	2.310	34.629	2.40	2.169	27.661	36.854	45.638	2.606	159.7	-1.17	0.059	4.78	0.799	1981.9
2200	2.103	34.640	2.55	1.948	27.688	36.893	45.688	2.711	182.0	-1.01	0.051	4.18	0.747	2178.9
2400	1.953	34.650	2.69	1.782	27.708	36.923	45.726	2.810	205.4	-0.76	0.034	3.14	0.647	2375.8
2600	1.821	34.657	2.83	1.635	27.725	36.948	45.758	2.907	230.1	-0.69	0.037	3.02	0.635	2572.4
2800	1.719	34.663	2.96	1.516	27.739	36.968	45.785	3.001	255.9	-0.55	0.033	2.51	0.578	2768.9
3000	1.660	34.668	3.07	1.440	27.748	36.981	45.802	3.093	283.2	-0.42	0.023	1.90	0.504	2965.2
3200	1.590	34.673	3.20	1.352	27.759	36.997	45.822	3.184	311.9	-0.39	0.023	1.87	0.499	3161.3
3400	1.540	34.677	3.32	1.283	27.767	37.009	45.838	3.274	342.1	-0.33	0.016	1.54	0.453	3357.2
3600	1.502	34.680	3.43	1.225	27.773	37.019	45.850	3.363	374.0	-0.32	0.017	1.55	0.454	3552.9
3800	1.473	34.684	3.55	1.176	27.780	37.028	45.862	3.452	407.4	-0.21	0.016	1.14	0.389	3748.5
4000	1.452	34.687	3.66	1.135	27.785	37.035	45.872	3.540	442.7	-0.20	0.014	1.05	0.375	3943.9
4200	1.441	34.689	3.74	1.102	27.789	37.041	45.879	3.629	479.8	-0.15	0.010	0.81	0.329	4139.2
4400	1.436	34.691	3.82	1.074	27.792	37.046	45.886	3.718	518.9	-0.15	0.010	0.83	0.332	4334.2
4600	1.435	34.693	3.89	1.050	27.795	37.050	45.891	3.808	560.0	-0.09	0.006	0.53	0.265	4529.1
4800	1.442	34.694	3.93	1.033	27.797	37.053	45.895	3.898	603.5	-0.07	0.005	0.41	0.234	4723.8
5000	1.452	34.695	3.97	1.019	27.799	37.056	45.898	3.990	649.3	-0.06	0.004	0.36	0.218	4918.4
5200	1.467	34.696	4.00	1.009	27.800	37.058	45.901	4.083	697.7	-0.04	0.005	0.27	0.190	5112.8
5400	1.489	34.697	4.01	1.006	27.801	37.059	45.902	4.178	748.8	-0.01	0.004	0.27	0.000	5307.0
5405	1.490	34.697	4.01	1.006	27.801	37.059	45.902	4.180	750.1	-0.01	0.004	0.27	0.000	5311.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	1.6	27.903	27.902	21.966	30.211	38.104	34.385	34.385	4.81	1.41	0.13	9.00		1.731	0.879	1	222222522
23	45.4	27.906	27.896	21.969	30.213	38.107	34.386	34.386	4.82	1.41	0.14	9.00				45	222222555
22	96.6	27.531	27.509	22.317	30.567	38.466	34.681	34.678	4.77	1.71	0.20	9.00		1.746	0.880	96	222222522
21	145.3	19.854	19.827	24.657	33.115	41.208	34.802	34.807	3.75	5.34	0.62	15.30		1.716	0.860	144	222222522
20	196.5	12.990	12.963	25.970	34.669	42.989	34.444	34.448	3.55	16.02	1.21	25.30		1.478	0.728	195	222222522
19	244.1	10.836	10.806	26.365	35.150	43.550	34.428	34.428	2.10	29.21	1.98	35.90				242	222222555
18	295.0	9.445	9.412	26.611	35.455	43.910	34.437	34.436	1.45	38.78	2.36	41.30		0.265	0.135	293	222222522
17	401.4	8.653	8.610	26.856	35.733	44.219	34.586	34.586	1.13	42.51	2.56	45.30		0.066	0.025	398	222222522
16	498.3	7.829	7.779	26.959	35.873	44.395	34.557	34.557	1.40	48.56	2.58	45.70		0.025	0.020	494	222222522
15	696.0	6.451	6.386	27.129	36.109	44.691	34.527	34.527	1.50	63.97	2.75	47.80			0.020	690	222222552
14	896.7	5.363	5.286	27.274	36.307	44.940	34.536	34.537	1.36	81.40	2.91	50.70		0.021	-0.005	889	222222522
13	1196.6	4.005	3.912	27.448	36.550	45.247	34.563	34.563	1.70	107.19	2.96	50.80		-0.003		1186	222222525
12	1490.9	3.070	2.962	27.564	36.715	45.459	34.593	34.590	2.06	127.03	2.90	50.20		-0.015	0.006	1477	222222522
11	1800.1	2.487	2.360	27.638	36.821	45.595	34.620	34.617	2.28	140.03	2.86	49.50			0.019	1782	222222552
10	2101.1	2.144	1.997	27.681	36.884	45.676	34.637	34.636	2.49	146.68	2.82	49.30		0.002	0.019	2078	222222522
9	2400.3	1.900	1.731	27.713	36.931	45.736	34.651	34.650	2.73	150.40	2.77	48.70		0.002	0.012	2373	222222522
8	2703.2	1.739	1.545	27.735	36.962	45.778	34.661	34.659	2.96	152.12	2.73	48.10		-0.011	0.000	2670	222222525
7	3000.1	1.627	1.408	27.752	36.987	45.809	34.669	34.672	3.12	152.32	2.68	47.70		-0.018	-0.006	2962	222222522
6	3501.4	1.502	1.236	27.771	37.016	45.847	34.679	34.679	3.41	149.20	2.60	46.60		-0.017	-0.005	3453	222222522
5	4000.5	1.445	1.128	27.785	37.036	45.872	34.687	34.686	3.71	142.85	2.52	45.80		0.004	-0.006	3940	222222522
4	4505.2	1.432	1.059	27.794	37.048	45.889	34.692	34.691	3.88	138.82	2.48	45.10		-0.001	-0.006	4432	222222522
3	4752.5	1.440	1.038	27.796	37.052	45.893	34.693	34.693	3.92	137.61	2.46	45.00			0.000	4673	222222555
2	4997.1	1.452	1.020	27.798	37.055	45.897	34.694	34.693	3.99	137.11	2.46	44.90		0.005	-0.005	4911	222222522
1	5409.0	1.490	1.005	27.801	37.058	45.902	34.696	34.696	4.04	136.50	2.42	44.90		-0.002	0.000	5311	222222525

CRUISE: MW 893 STA: 58 DATE (D/M/Y): 23- 2-89 TIME: 2241 LAT: 9 30.28 N LONG: 154 9.62 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24083E-04 1/S SOUND SPEED= 1508.9 M/S Depth= 5497 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.271	34.349	4.27	28.271	21.819	30.055	37.941	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.271	34.349	4.27	28.271	21.819	30.055	37.941	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.277	34.338	4.68	28.272	21.810	30.046	37.932	0.120	0.1	-0.32	0.037	3.13	0.646	20.0
30	28.274	34.338	4.73	28.266	21.812	30.049	37.935	0.180	0.3	-1.13	-0.025	8.30	1.052	30.0
40	28.174	34.342	4.73	28.164	21.848	30.087	37.975	0.240	0.5	-43.18	3.502	394.67	7.254	40.0
50	27.901	34.367	4.69	27.890	21.957	30.202	38.095	0.299	0.8	-3.33	1.077	44.61	2.439	50.0
100	27.079	34.704	4.68	27.056	22.479	30.740	38.649	0.588	3.0	-97.18	7.052	841.17	10.591	100.0
125	23.706	34.805	4.35	23.680	23.590	31.936	39.925	0.709	4.3	-87.03	1.120	648.06	9.296	125.0
150	20.747	34.809	3.90	20.718	24.426	32.857	40.925	0.810	5.8	-196.22	-4.015	1224.99	12.780	149.9
200	13.961	34.516	3.49	13.932	25.828	34.489	42.773	0.948	8.2	-96.16	-5.005	393.99	7.248	199.7
250	10.887	34.399	2.26	10.856	26.334	35.117	43.516	1.045	10.4	-41.47	1.590	210.16	5.294	249.5
300	9.545	34.570	1.19	9.511	26.699	35.536	43.986	1.122	12.6	-12.89	1.864	86.54	3.397	299.2
350	9.121	34.617	0.86	9.082	26.806	35.661	44.127	1.189	14.8	-6.93	0.270	32.38	2.078	348.9
400	8.701	34.602	1.06	8.658	26.861	35.735	44.219	1.253	17.2	-8.86	-0.327	28.43	1.947	398.6
450	8.285	34.592	0.94	8.238	26.918	35.811	44.313	1.315	19.9	-8.52	-0.407	25.02	1.827	448.3
500	7.929	34.566	1.28	7.878	26.952	35.861	44.378	1.375	22.8	-11.56	-0.837	27.73	1.923	498.0
600	7.134	34.548	1.16	7.076	27.052	35.999	44.551	1.489	29.2	-7.42	-0.198	23.10	1.755	597.3
700	6.431	34.533	1.29	6.367	27.136	36.117	44.701	1.595	36.3	-7.17	-0.088	23.33	1.764	696.5
800	5.722	34.532	1.36	5.652	27.226	36.241	44.857	1.694	43.8	-6.88	0.026	23.73	1.779	795.7
900	5.135	34.537	1.53	5.059	27.301	36.345	44.988	1.785	51.7	-5.59	0.117	20.24	1.643	894.8
1000	4.586	34.550	1.58	4.506	27.374	36.446	45.115	1.869	59.8	-5.04	0.138	18.60	1.575	993.9
1200	3.805	34.572	1.92	3.714	27.475	36.587	45.294	2.020	76.7	-3.44	0.096	12.42	1.287	1191.9
1400	3.257	34.589	2.05	3.155	27.543	36.684	45.418	2.154	94.5	-2.11	0.070	7.76	1.017	1389.6
1600	2.859	34.602	2.19	2.745	27.590	36.754	45.508	2.279	113.6	-1.90	0.070	7.13	0.975	1587.2
1800	2.538	34.616	2.33	2.411	27.630	36.811	45.582	2.395	133.7	-1.52	0.068	6.00	0.894	1784.6
2000	2.290	34.629	2.42	2.149	27.662	36.857	45.641	2.504	154.9	-1.21	0.058	4.88	0.806	1981.8
2200	2.080	34.640	2.59	1.925	27.690	36.897	45.692	2.608	177.1	-0.98	0.055	4.19	0.748	2178.8
2400	1.930	34.650	2.72	1.760	27.710	36.926	45.730	2.707	200.4	-0.73	0.039	3.11	0.644	2375.7
2600	1.821	34.657	2.84	1.635	27.725	36.948	45.759	2.804	224.9	-0.65	0.039	2.94	0.626	2572.3
2800	1.730	34.664	2.98	1.527	27.738	36.967	45.783	2.897	250.8	-0.58	0.032	2.58	0.587	2768.8
3000	1.644	34.669	3.12	1.424	27.750	36.984	45.806	2.989	277.9	-0.41	0.020	1.81	0.492	2965.0
3200	1.590	34.673	3.24	1.351	27.758	36.997	45.822	3.080	306.6	-0.33	0.018	1.54	0.453	3161.2
3400	1.543	34.677	3.35	1.286	27.766	37.008	45.837	3.170	336.9	-0.34	0.020	1.64	0.468	3357.1
3600	1.507	34.681	3.46	1.230	27.773	37.018	45.850	3.259	368.8	-0.25	0.017	1.29	0.415	3552.8
3800	1.484	34.684	3.56	1.187	27.778	37.026	45.860	3.348	402.4	-0.23	0.015	1.17	0.395	3748.4
4000	1.468	34.686	3.66	1.150	27.783	37.033	45.868	3.437	437.8	-0.17	0.011	0.91	0.347	3943.8
4200	1.459	34.688	3.74	1.119	27.787	37.038	45.875	3.527	475.1	-0.15	0.010	0.83	0.332	4139.1
4400	1.450	34.690	3.82	1.088	27.791	37.044	45.882	3.616	514.5	-0.14	0.009	0.76	0.318	4334.1
4600	1.450	34.692	3.89	1.065	27.793	37.048	45.888	3.707	556.0	-0.13	0.009	0.74	0.315	4529.0
4800	1.448	34.694	3.96	1.040	27.797	37.052	45.894	3.798	599.6	-0.11	0.007	0.61	0.286	4723.7
5000	1.455	34.695	4.01	1.022	27.799	37.055	45.898	3.890	645.6	-0.07	0.005	0.39	0.229	4918.3
5200	1.471	34.696	4.04	1.013	27.800	37.057	45.900	3.983	694.0	-0.04	0.004	0.25	0.183	5112.7
5400	1.491	34.697	4.06	1.007	27.801	37.059	45.902	4.078	745.2	-0.04	0.005	0.25	0.000	5306.9
5473	1.498	34.697	4.06	1.004	27.801	37.059	45.902	4.112	764.5	-0.04	0.006	0.25	0.000	5377.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.2	28.332	28.331	21.796	30.031	37.915	34.345	34.347	4.93	1.61	0.15	-0.01	0.01			4	222222255
23	95.6	25.486	25.465	23.049	31.349	39.294	34.799	34.784	4.87	1.81	0.22	0.19	0.01			95	222222255
22	149.1	18.487	18.462	24.947	33.449	41.583	34.724	34.735	3.59	7.25	0.76	8.19	0.01			148	222222255
21	197.7	12.877	12.850	26.071	34.773	43.095	34.545	34.487	2.89	18.54	1.46	19.19	0.01			196	222222255
20	247.0	10.651	10.621	26.431	35.223	43.630	34.471	34.393	2.35	27.90	1.90	25.59	0.01			245	222222255
19	298.4	9.588	9.554	26.688	35.524	43.971	34.565	34.555	1.18	37.68	2.43	33.89	0.01			296	222222255
18	397.8	8.787	8.744	26.849	35.719	44.199	34.604	34.602	1.06	41.50	2.60	35.99	0.01			395	222222255
17	498.3	7.734	7.684	26.960	35.879	44.405	34.541	34.553	1.40	48.76	2.61	36.79	0.01			494	222222255
16	599.1	6.939	6.882	27.072	36.029	44.589	34.539	34.540	1.19	58.73	2.82	39.39	0.01			594	222222255
15	743.6	5.796	5.730	27.222	36.234	44.846	34.539	34.528	1.34	73.14	2.92	40.69	0.01			738	222222255
14	896.4	5.040	4.965	27.317	36.366	45.013	34.543	34.538	1.49	85.63	2.95	41.39	0.01	0.007	-0.005	889	222222222
13	1098.3	4.165	4.079	27.426	36.520	45.209	34.558	34.556	1.80	102.65	2.92	41.09	0.01	0.004		1089	222222225
12	1298.7	3.491	3.395	27.513	36.642	45.364	34.581	34.578	1.97	116.56	2.91	41.09	0.01	-0.019		1287	222222225
11	1498.6	3.032	2.924	27.570	36.723	45.468	34.596	34.594	2.09	127.03	2.89	41.09	0.01			1484	222222255
10	1698.2	2.640	2.520	27.617	36.792	45.558	34.611	34.609	2.23	135.90	2.88	40.99	0.01	0.009	0.021	1681	222222222
9	1901.7	2.378	2.244	27.650	36.840	45.620	34.624	34.623	2.38	140.83	2.85	40.49	0.01	0.002		1882	222222225
7	2498.2	1.876	1.698	27.718	36.938	45.745	34.654	34.652	2.76	149.70	2.77	39.59	0.01			2469	222222255
6	3005.0	1.655	1.434	27.749	36.982	45.803	34.668	34.668	3.08	150.71	2.68	38.79	0.01			2966	222222255
5	3503.8	1.531	1.264	27.769	37.013	45.842	34.679	34.677	3.38	148.29	2.60	37.89	0.01			3455	222222255
3	4505.4	1.451	1.077	27.791	37.045	45.884	34.690	34.691	3.85	138.92	2.50	36.29	0.01			4433	222222255
2	5004.8	1.456	1.023	27.798	37.054	45.897	34.694	34.695	3.96	135.90	2.47	35.89	0.01			4918	222222255
1	5475.2	1.498	1.005	27.801	37.058	45.901	34.696	34.695	4.00	135.19	2.45	35.79	0.01			5375	222222255

CRUISE: MW 893 STA: 59 DATE (D/M/Y): 24- 2-89 TIME: 0802 LAT: 9 29.37 N LONG: 154 59.74 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24045E-04 1/S SOUND SPEED= 1508.4 M/S Depth= 5404 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.029	34.362	4.85	28.029	21.908	30.149	38.040	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.029	34.362	4.85	28.029	21.908	30.150	38.040	0.018	0.0	-0.47	0.000	0.00	0.000	3.0
20	28.032	34.356	4.61	28.027	21.904	30.145	38.036	0.118	0.1	-2.72	-0.189	17.50	1.529	20.0
30	28.006	34.353	4.63	27.999	21.911	30.154	38.045	0.177	0.3	-1.90	-0.174	11.51	1.240	30.0
40	27.989	34.352	4.62	27.980	21.916	30.159	38.051	0.236	0.5	-2.46	-0.145	16.32	1.476	40.0
50	27.973	34.350	4.63	27.961	21.921	30.165	38.057	0.295	0.8	-0.68	-0.078	3.82	0.714	50.0
100	27.643	34.434	4.52	27.620	22.094	30.345	38.244	0.591	3.0	-78.33	10.749	772.45	10.157	100.0
125	24.286	34.743	4.34	24.260	23.372	31.703	39.679	0.719	4.5	-137.86	2.695	1033.49	11.748	125.0
150	20.743	34.755	3.92	20.715	24.386	32.817	40.886	0.821	5.9	-182.36	-0.829	1099.99	12.120	149.9
200	12.677	34.464	2.91	12.650	26.047	34.758	43.088	0.950	8.2	-85.37	-3.895	335.66	6.695	199.7
250	10.507	34.563	1.30	10.477	26.529	35.326	43.737	1.037	10.2	-24.11	3.165	159.72	4.618	249.5
300	9.605	34.625	0.84	9.572	26.731	35.566	44.012	1.109	12.2	-8.05	0.155	35.47	2.176	299.2
350	9.165	34.624	0.82	9.127	26.803	35.657	44.121	1.176	14.4	-6.77	-0.058	25.87	1.859	348.9
400	8.791	34.613	0.84	8.748	26.855	35.725	44.205	1.241	16.9	-10.08	-0.335	33.13	2.103	398.6
450	8.281	34.591	0.93	8.234	26.918	35.811	44.313	1.302	19.5	-9.49	-0.564	25.72	1.853	448.3
500	7.848	34.566	1.16	7.797	26.963	35.877	44.397	1.362	22.4	-7.93	-0.567	19.05	1.595	498.0
600	7.116	34.548	1.17	7.058	27.055	36.003	44.555	1.476	28.8	-6.38	-0.050	21.98	1.713	597.3
700	6.397	34.531	1.32	6.333	27.140	36.122	44.707	1.582	35.8	-6.91	-0.056	22.95	1.751	696.5
800	5.730	34.531	1.39	5.660	27.225	36.240	44.855	1.680	43.3	-5.94	0.057	21.02	1.675	795.7
900	5.276	34.536	1.44	5.200	27.284	36.322	44.958	1.772	51.3	-4.50	0.083	16.21	1.471	894.8
1000	4.751	34.544	1.67	4.669	27.352	36.415	45.077	1.858	59.6	-4.70	0.094	16.84	1.500	993.9
1200	3.836	34.568	1.82	3.744	27.468	36.579	45.285	2.012	76.9	-3.86	0.115	14.09	1.372	1191.9
1400	3.281	34.588	2.02	3.179	27.539	36.680	45.412	2.148	95.0	-2.60	0.093	9.65	1.135	1389.6
1600	2.817	34.605	2.14	2.703	27.596	36.762	45.518	2.272	113.9	-2.00	0.071	7.41	0.995	1587.2
1800	2.475	34.619	2.29	2.349	27.638	36.822	45.596	2.386	133.6	-1.43	0.062	5.54	0.860	1784.6
2000	2.248	34.631	2.40	2.108	27.668	36.865	45.651	2.494	154.5	-1.14	0.061	4.69	0.791	1981.8
2200	2.046	34.643	2.55	1.892	27.694	36.903	45.700	2.596	176.4	-0.96	0.052	4.05	0.736	2178.8
2400	1.908	34.653	2.68	1.738	27.714	36.931	45.736	2.694	199.4	-0.67	0.037	2.90	0.622	2375.6
2600	1.804	34.659	2.82	1.618	27.728	36.952	45.763	2.790	223.7	-0.51	0.024	2.16	0.537	2572.3
2800	1.717	34.664	2.95	1.514	27.740	36.969	45.786	2.883	249.4	-0.55	0.030	2.47	0.574	2768.8
3000	1.635	34.670	3.08	1.416	27.751	36.986	45.808	2.975	276.6	-0.42	0.022	1.88	0.502	2965.0
3200	1.575	34.674	3.20	1.337	27.760	37.000	45.825	3.065	305.1	-0.35	0.019	1.63	0.466	3161.1
3400	1.533	34.678	3.32	1.277	27.767	37.010	45.839	3.154	335.2	-0.26	0.014	1.23	0.405	3357.1
3600	1.506	34.681	3.42	1.229	27.773	37.018	45.850	3.244	367.0	-0.24	0.017	1.23	0.406	3552.8
3800	1.488	34.684	3.51	1.190	27.778	37.026	45.859	3.333	400.6	-0.15	0.010	0.80	0.327	3748.4
4000	1.476	34.686	3.58	1.158	27.782	37.031	45.866	3.422	436.1	-0.17	0.011	0.89	0.345	3943.8
4200	1.464	34.688	3.66	1.124	27.786	37.037	45.874	3.512	473.6	-0.18	0.011	0.97	0.361	4139.0
4400	1.452	34.690	3.75	1.090	27.790	37.043	45.882	3.601	513.0	-0.16	0.011	0.89	0.344	4334.1
4600	1.450	34.692	3.82	1.065	27.794	37.048	45.888	3.692	554.5	-0.14	0.010	0.79	0.326	4529.0
4800	1.446	34.694	3.90	1.038	27.797	37.053	45.894	3.783	598.2	-0.12	0.007	0.67	0.298	4723.7
5000	1.452	34.695	3.95	1.019	27.799	37.056	45.898	3.875	644.0	-0.07	0.005	0.43	0.239	4918.3
5200	1.469	34.696	3.98	1.011	27.800	37.058	45.901	3.968	692.4	-0.04	0.004	0.23	0.176	5112.7
5400	1.489	34.697	4.00	1.006	27.801	37.059	45.902	4.062	743.5	-0.02	0.006	0.23	0.000	5306.9
5413	1.491	34.697	3.99	1.006	27.802	37.059	45.902	4.068	746.9	-0.02	0.005	0.23	0.000	5319.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	23.1	27.996	27.990	21.917	30.159	38.051	34.357	34.357	5.13	1.31	0.13	0.01	-0.01	1.697	0.869	22	222222222
23	46.4	27.980	27.970	21.921	30.164	38.056	34.354	34.355	4.76	1.31	0.14	0.01	-0.01	1.720	0.891	46	222222222
22	72.2	27.962	27.945	21.928	30.172	38.065	34.353	34.351	5.20	1.51	0.15	0.01	-0.01	1.727	0.859	71	222222222
21	97.6	24.809	24.788	23.203	31.521	39.484	34.730	34.737	4.46	2.62	0.31	0.59	0.01	1.640	0.861	97	222222222
20	123.6	22.224	22.200	23.999	32.387	40.415	34.784	34.782	4.14	3.73	0.45	2.91	0.29	1.688	0.882	122	222222222
19	147.8	19.852	19.825	24.622	33.080	41.174	34.755	34.754	3.75	6.04	0.68	6.43	0.07		0.847	146	222222252
18	171.8	16.782	16.753	25.337	33.895	42.083	34.692	34.701	3.48	9.97	0.95	11.18	0.02			170	222222255
17	197.6	14.029	14.000	25.848	34.506	42.787	34.560	34.538	3.33	14.41	1.20	15.31	-0.01	1.411	0.689	196	222222222
16	248.0	10.677	10.647	26.485	35.275	43.680	34.546	34.542	1.28	32.14	2.30	31.11	-0.01			246	222222255
15	297.9	9.585	9.551	26.735	35.570	44.017	34.625	34.624	0.75	37.88	2.58	35.71	-0.01	0.086	0.035	296	222222222
14	396.8	8.846	8.803	26.846	35.714	44.192	34.613	34.614	0.87	41.81	2.67	36.91	-0.01			394	222222255
13	496.5	7.974	7.924	26.952	35.860	44.375	34.575	34.573	1.08	48.15	2.73	37.61	-0.01	0.010	0.015	493	222222222
12	748.6	6.074	6.006	27.179	36.177	44.776	34.527	34.527	1.39	69.71	2.88	39.91	-0.01	-0.001	0.017	743	222222222
11	996.8	4.690	4.609	27.359	36.426	45.090	34.545	34.544	1.68	92.88	2.92	40.70	0.00		0.031	988	222222252
10	1498.4	3.002	2.894	27.573	36.728	45.475	34.596	34.595	2.11	127.94	2.90	40.70	0.00	-0.002	0.001	1484	222222222
9	1748.3	2.518	2.395	27.633	36.815	45.586	34.617	34.617	2.28	138.01	2.87	40.70	0.00	0.002		1731	222222225
7	2399.1	1.915	1.745	27.712	36.929	45.734	34.652	34.652	2.69	149.70	2.79	39.60	0.00	-0.017	0.000	2372	222222225
6	2910.5	1.686	1.474	27.744	36.976	45.795	34.666	34.666	3.05	150.81	2.70	38.60	0.00	-0.009	0.001	2874	222222222
5	3404.0	1.544	1.287	27.766	37.008	45.837	34.677	34.680	3.36	148.59	2.62	37.60	0.00	0.000	0.000	3357	222222255
3	4405.9	1.454	1.091	27.790	37.042	45.881	34.689	34.690		139.93	2.50	36.20	0.00	0.007	0.000	4336	225222225
2	4906.1	1.450	1.029	27.797	37.053	45.895	34.693	34.691	3.79	140.83	2.49	36.10	0.00	0.006	-0.005	4823	222222222
1	5414.0	1.491	1.006	27.800	37.058	45.901	34.695	34.698	4.04	135.70	2.45	35.50	0.00	-0.007	-0.006	5316	222222222

CRUISE: MW 893 STA: 60 DATE (D/M/Y): 24- 2-89 TIME: 1809 LAT: 9 30.17 N LONG: 155 48.42 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24078E-04 1/S SOUND SPEED= 1507.7 M/S Depth= 5327 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S. 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.073	34.254	4.99	28.073	21.812	30.054	37.945	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
11	28.073	34.254	4.99	28.070	21.813	30.055	37.946	0.066	0.1	-0.47	0.000	0.00	0.000	11.0
20	28.072	34.253	4.92	28.067	21.814	30.056	37.947	0.120	0.2	0.01	0.020	0.28	0.194	20.0
30	28.077	34.254	4.92	28.070	21.813	30.055	37.946	0.180	0.3	0.38	0.134	-0.57	-0.277	30.0
40	28.081	34.255	4.99	28.072	21.813	30.055	37.946	0.240	0.5	0.11	-0.019	-1.18	-0.396	40.0
50	28.083	34.256	5.03	28.072	21.814	30.056	37.947	0.300	0.8	0.02	0.439	7.64	1.010	50.0
100	27.700	34.626	5.05	27.676	22.221	30.468	38.364	0.597	3.1	-60.81	12.817	683.12	9.545	100.0
125	25.251	34.867	4.93	25.224	23.174	31.479	39.430	0.727	4.5	-84.27	3.912	684.38	9.554	125.0
150	20.965	34.912	4.32	20.937	24.446	32.869	40.930	0.834	6.0	-214.96	-3.781	1365.78	13.496	150.0
200	14.224	34.556	3.17	14.195	25.803	34.454	42.729	0.973	8.5	-97.26	-4.056	419.41	7.479	199.8
250	11.152	34.515	1.78	11.121	26.376	35.147	43.534	1.070	10.7	-32.86	1.863	179.03	4.886	249.5
300	9.841	34.598	0.96	9.807	26.671	35.496	43.933	1.147	12.9	-22.20	0.359	97.95	3.614	299.3
350	9.171	34.611	0.94	9.132	26.793	35.646	44.110	1.215	15.1	-4.05	0.690	28.86	1.962	349.0
400	8.908	34.623	0.87	8.865	26.845	35.710	44.185	1.280	17.6	-7.55	-0.336	23.56	1.773	398.7
450	8.406	34.592	0.97	8.359	26.899	35.787	44.283	1.343	20.3	-7.91	-0.327	24.38	1.803	448.3
500	8.060	34.580	1.00	8.008	26.943	35.847	44.358	1.404	23.3	-9.82	-0.404	29.52	1.984	498.0
600	7.151	34.547	1.15	7.093	27.049	35.995	44.546	1.518	29.7	-7.28	-0.150	23.43	1.768	597.3
700	6.418	34.538	1.15	6.354	27.142	36.123	44.707	1.624	36.7	-7.47	-0.033	25.30	1.837	696.5
800	5.714	34.533	1.25	5.644	27.228	36.244	44.860	1.722	44.2	-5.75	-0.019	18.79	1.583	795.7
900	5.196	34.537	1.40	5.120	27.294	36.336	44.976	1.813	52.1	-5.62	0.066	19.63	1.618	894.8
1000	4.671	34.548	1.53	4.590	27.363	36.431	45.096	1.898	60.3	-4.43	0.099	15.90	1.456	993.9
1200	3.764	34.569	1.81	3.674	27.477	36.591	45.300	2.050	77.3	-4.06	0.105	14.44	1.388	1191.9
1400	3.184	34.589	2.01	3.083	27.550	36.695	45.433	2.183	94.9	-2.21	0.079	8.17	1.044	1389.7
1600	2.755	34.605	2.19	2.642	27.602	36.771	45.530	2.305	113.6	-2.03	0.087	7.79	1.019	1587.3
1800	2.422	34.621	2.31	2.296	27.644	36.831	45.608	2.417	133.1	-1.40	0.067	5.55	0.868	1784.6
2000	2.193	34.635	2.44	2.053	27.675	36.875	45.664	2.523	153.6	-0.99	0.065	4.30	0.758	1981.8
2200	2.039	34.644	2.58	1.885	27.696	36.905	45.703	2.625	175.3	-0.77	0.045	3.31	0.665	2178.8
2400	1.922	34.652	2.69	1.752	27.712	36.928	45.733	2.723	198.4	-0.67	0.035	2.86	0.618	2375.7
2600	1.833	34.657	2.79	1.646	27.724	36.947	45.756	2.819	222.9	-0.56	0.029	2.42	0.568	2572.3
2800	1.743	34.663	2.92	1.540	27.737	36.965	45.780	2.914	248.9	-0.54	0.030	2.44	0.570	2768.8
3000	1.657	34.669	3.05	1.436	27.749	36.983	45.804	3.006	276.2	-0.49	0.024	2.21	0.542	2965.1
3200	1.590	34.674	3.19	1.352	27.759	36.998	45.823	3.097	304.9	-0.42	0.023	1.98	0.513	3161.2
3400	1.536	34.678	3.32	1.279	27.768	37.010	45.839	3.186	335.0	-0.35	0.020	1.69	0.475	3357.1
3600	1.500	34.682	3.45	1.224	27.774	37.020	45.852	3.275	366.7	-0.23	0.017	1.21	0.401	3552.9
3800	1.473	34.684	3.55	1.177	27.780	37.028	45.862	3.364	400.2	-0.20	0.013	1.06	0.375	3748.4
4000	1.462	34.687	3.63	1.144	27.784	37.034	45.870	3.452	435.5	-0.18	0.013	0.99	0.364	3943.8
4200	1.447	34.689	3.72	1.107	27.788	37.040	45.878	3.541	472.7	-0.19	0.010	0.96	0.357	4139.1
4400	1.436	34.691	3.81	1.074	27.792	37.046	45.886	3.631	511.8	-0.15	0.009	0.80	0.326	4334.1
4600	1.437	34.693	3.87	1.052	27.795	37.050	45.891	3.720	553.0	-0.10	0.006	0.54	0.269	4529.0
4800	1.440	34.694	3.92	1.032	27.798	37.054	45.896	3.811	596.4	-0.09	0.006	0.52	0.263	4723.8
5000	1.452	34.695	3.96	1.019	27.799	37.056	45.898	3.903	642.3	-0.06	0.004	0.32	0.208	4918.3
5200	1.468	34.696	3.98	1.011	27.800	37.058	45.901	3.996	690.6	-0.02	0.004	0.19	0.159	5112.7
5321	1.483	34.697	4.00	1.009	27.801	37.058	45.901	4.053	721.2	-0.01	0.003	0.19	0.000	5230.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
7	2301.3	2.004	1.842	27.702	36.913	45.713	34.648	34.648	2.59	148.99		39.70	0.00			2275	222252255
6	2800.3	1.744	1.541	27.738	36.966	45.781	34.664	34.663	2.93	151.01		38.70	0.00			2766	222252255
5	3303.5	1.557	1.309	27.765	37.006	45.833	34.678	34.677	3.27	149.70		37.80	0.00			3259	222252255
4	3802.1	1.472	1.175	27.779	37.028	45.862	34.684	34.684	3.58	144.76		36.80	0.00			3747	222252255
3	4304.1	1.441	1.090	27.790	37.043	45.882	34.690	34.692	3.79	140.23		36.10	0.00			4236	222252255
2	4804.8	1.443	1.034	27.796	37.053	45.894	34.693	34.694	3.94	137.51		35.70	0.00			4724	222252255
1	5322.7	1.483	1.010	27.800	37.058	45.901	34.696	34.697	4.01	136.10		35.50	0.00			5227	222252255

CRUISE: MW 893 STA: 61 DATE (D/M/Y): 25- 2-89 TIME: 0404 LAT: 9 29.46 N LONG: 156 39.81 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24048E-04 1/S SOUND SPEED= 1507.7 M/S Depth= 5277 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 ,10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.872	34.355	4.59	27.872	21.954	30.199	38.094	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.872	34.355	4.59	27.872	21.954	30.199	38.094	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.878	34.356	4.80	27.873	21.954	30.199	38.094	0.117	0.1	-0.57	0.317	9.97	1.154	20.0
30	27.876	34.359	4.83	27.869	21.957	30.203	38.097	0.176	0.3	0.01	0.681	11.95	1.263	30.0
40	27.879	34.364	4.96	27.870	21.961	30.207	38.101	0.235	0.5	-0.39	0.214	6.76	0.950	40.0
50	27.878	34.366	4.92	27.866	21.964	30.209	38.104	0.293	0.7	-0.14	0.050	1.98	0.514	50.0
100	26.992	34.744	4.85	26.969	22.537	30.800	38.711	0.581	2.9	-116.84	16.775	1148.02	12.381	100.0
125	22.780	35.123	4.38	22.755	24.099	32.467	40.477	0.693	4.2	-114.02	-1.107	799.71	10.334	125.0
150	20.737	35.061	4.24	20.709	24.620	33.048	41.114	0.782	5.5	-79.24	-4.422	422.97	7.515	149.9
200	15.652	34.670	4.49	15.621	25.581	34.179	42.404	0.927	8.0	-91.64	-7.844	348.60	6.823	199.7
250	11.726	34.386	3.62	11.694	26.170	34.920	43.287	1.035	10.5	-47.55	-0.977	200.87	5.179	249.5
300	10.271	34.498	1.69	10.236	26.520	35.328	43.749	1.123	13.0	-29.32	4.832	212.16	5.323	299.2
350	9.457	34.623	0.83	9.418	26.755	35.596	44.049	1.194	15.3	-11.50	-0.257	41.64	2.358	349.0
400	8.827	34.606	0.93	8.784	26.845	35.713	44.192	1.260	17.8	-13.17	-0.481	42.74	2.389	398.6
450	8.283	34.588	0.98	8.236	26.915	35.808	44.310	1.322	20.5	-12.93	-0.542	39.07	2.284	448.3
500	7.747	34.566	1.04	7.697	26.978	35.896	44.421	1.381	23.4	-8.95	-0.307	27.39	1.913	498.0
600	7.050	34.541	1.25	6.992	27.059	36.010	44.565	1.493	29.7	-5.54	-0.153	16.96	1.505	597.3
700	6.404	34.530	1.33	6.340	27.137	36.119	44.704	1.600	36.7	-9.79	-0.095	32.25	2.075	696.5
800	5.598	34.535	1.31	5.529	27.244	36.265	44.887	1.697	44.1	-7.17	0.151	26.60	1.885	795.7
900	5.059	34.543	1.38	4.985	27.315	36.363	45.009	1.785	51.8	-4.03	0.035	13.55	1.345	894.8
1000	4.676	34.548	1.58	4.595	27.363	36.431	45.095	1.869	59.9	-3.65	0.081	13.10	1.323	993.9
1200	3.843	34.568	1.82	3.752	27.468	36.578	45.283	2.022	77.0	-3.98	0.114	14.41	1.387	1191.9
1400	3.189	34.591	2.00	3.087	27.550	36.695	45.433	2.156	94.8	-2.72	0.095	10.05	1.158	1389.6
1600	2.759	34.608	2.11	2.646	27.604	36.772	45.531	2.277	113.3	-1.84	0.073	6.96	0.964	1587.2
1800	2.459	34.621	2.25	2.332	27.641	36.826	45.601	2.390	132.9	-1.38	0.064	5.44	0.853	1784.6
2000	2.259	34.632	2.39	2.118	27.668	36.864	45.650	2.497	153.7	-1.15	0.062	4.73	0.795	1981.8
2200	2.053	34.645	2.56	1.898	27.695	36.904	45.701	2.599	175.5	-0.70	0.043	3.06	0.639	2178.8
2400	1.941	34.653	2.68	1.771	27.711	36.927	45.730	2.698	198.6	-0.65	0.031	2.70	0.600	2375.6
2600	1.841	34.658	2.80	1.654	27.724	36.946	45.755	2.794	223.2	-0.63	0.030	2.69	0.600	2572.3
2800	1.753	34.663	2.92	1.550	27.736	36.964	45.779	2.888	249.1	-0.48	0.024	2.12	0.532	2768.8
3000	1.675	34.668	3.04	1.455	27.747	36.980	45.800	2.981	276.6	-0.42	0.023	1.91	0.505	2965.0
3200	1.619	34.673	3.16	1.380	27.756	36.993	45.817	3.073	305.6	-0.41	0.022	1.91	0.505	3161.1
3400	1.550	34.678	3.31	1.293	27.766	37.008	45.836	3.163	336.0	-0.34	0.020	1.65	0.469	3357.1
3600	1.516	34.681	3.44	1.239	27.773	37.018	45.849	3.253	367.9	-0.27	0.017	1.36	0.427	3552.8
3800	1.482	34.684	3.55	1.186	27.779	37.027	45.861	3.342	401.6	-0.26	0.015	1.32	0.420	3748.4
4000	1.468	34.687	3.66	1.150	27.783	37.033	45.869	3.431	436.9	-0.22	0.014	1.13	0.388	3943.8
4200	1.451	34.689	3.77	1.111	27.788	37.040	45.878	3.520	474.1	-0.16	0.010	0.84	0.334	4139.1
4400	1.441	34.692	3.85	1.079	27.792	37.046	45.885	3.609	513.3	-0.14	0.010	0.76	0.319	4334.1
4600	1.437	34.693	3.93	1.052	27.795	37.050	45.891	3.699	554.5	-0.17	0.010	0.91	0.349	4529.0
4800	1.435	34.695	4.00	1.027	27.798	37.055	45.897	3.789	597.9	-0.10	0.007	0.59	0.280	4723.7
5000	1.452	34.696	4.03	1.019	27.799	37.056	45.899	3.881	643.6	-0.05	0.004	0.29	0.197	4918.3
5200	1.470	34.696	4.06	1.012	27.800	37.058	45.900	3.974	691.9	-0.01	0.002	0.11	0.120	5112.7
5305	1.483	34.697	4.07	1.011	27.801	37.058	45.901	4.023	718.4	-0.01	0.002	0.11	0.000	5214.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.1	27.857	27.855	21.961	30.207	38.101	34.357	34.356	4.88	1.31	0.15	0.00	0.00	1.709	0.882	6	222222222
22	96.7	26.552	26.531	22.743	31.016	38.936	34.834	34.823	4.92	1.41	0.17	0.10	0.00	1.790	0.898	96	222222222
21	146.9	19.222	19.196	24.917	33.392	41.503	34.927	34.962	4.09	4.03	0.45	4.40	0.00	1.895	0.947	146	222222222
20	197.0	14.471	14.442	25.762	34.403	42.669	34.570	34.571	4.32	9.87	0.80	10.30	0.00	1.911	0.938	195	222222222
19	246.7	12.295	12.262	26.078	34.805	43.150	34.406	34.413	3.90	16.32	1.18	15.40	0.00	1.763	0.769	245	222222222
18	296.1	10.023	9.989	26.615	35.432	43.862	34.565	34.525	1.29	34.35	2.34	32.00	0.00	0.292	0.136	294	222222222
17	346.4	9.448	9.409	26.765	35.606	44.059	34.634	34.625	0.73	37.98	2.59	35.90	0.00	0.068	0.030	344	222222222
16	396.5	8.879	8.836	26.844	35.710	44.187	34.616	34.616	0.89	41.10	2.62	36.70	0.00		0.019	393	222222252
15	496.2	7.987	7.937	26.950	35.857	44.372	34.576	34.576	1.01	48.36	2.72	37.60	0.00		0.019	492	222222252
13	696.6	6.253	6.190	27.156	36.146	44.737	34.529	34.528	1.36	66.89	2.86	39.60	0.00	0.012	0.001	691	222222222
12	795.6	5.724	5.654	27.228	36.243	44.858	34.534	34.536	1.28	74.95	2.96	41.00	0.00	-0.015	0.007	789	222222222
11	998.6	4.766	4.684	27.352	36.415	45.075	34.547	34.549	1.54	91.27	2.96	41.10	0.00		-0.005	990	222222252
10	1196.5	3.832	3.741	27.469	36.580	45.286	34.568	34.569	1.86	110.21	2.93	41.10	0.00	0.014	0.017	1186	222222222
9	1597.9	2.734	2.621	27.606	36.776	45.537	34.609	34.607	2.13	133.88	2.90	40.90	0.00	0.004	0.007	1582	222222222
8	1798.2	2.435	2.309	27.644	36.830	45.607	34.623	34.622	2.26	140.63	2.88	40.60	0.00	-0.011	-0.005	1780	222222222
7	2300.3	1.970	1.808	27.705	36.919	45.720	34.649	34.651	2.63	148.59	2.79	39.70	0.00	-0.019	-0.005	2274	222222222
6	2802.0	1.732	1.529	27.738	36.967	45.783	34.664	34.668	2.95	151.51	2.72	38.90	0.00	-0.006	-0.005	2767	222222222
5	3302.5	1.559	1.312	27.765	37.005	45.832	34.677		3.26	149.90	2.64	38.00	0.00	0.004	-0.005	3258	252222222
4	3804.3	1.471	1.174	27.781	37.029	45.863	34.685	34.685	3.60	144.96	2.59	36.90	0.00			3749	222222255
3	4304.3	1.442	1.091	27.790	37.043	45.882	34.690	34.693	3.81	140.03	2.51	36.20	0.00	-0.004	0.001	4237	222222222
2	4802.7	1.437	1.029	27.798	37.054	45.896	34.694	34.696	3.98	137.11	2.48	35.80	0.00	-0.002	-0.005	4722	222222222
1	5307.5	1.483	1.012	27.801	37.058	45.901	34.696		3.99	136.30	2.46	35.60	0.00	-0.006	0.001	5213	252222222

CRUISE: MW 893 STA: 62 DATE (D/M/Y): 25- 2-89 TIME: 1429 LAT: 9 29.07 N LONG: 157 29.77 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24032E-04 1/S SOUND SPEED= 1507.0 M/S Depth= 5209 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.984	34.310	4.48	27.984	21.883	30.127	38.019	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.984	34.310	4.48	27.983	21.884	30.127	38.019	0.018	0.0	-0.47	0.000	0.00	0.000	3.0
20	28.000	34.298	4.76	27.996	21.870	30.113	38.006	0.119	0.1	0.48	-0.061	-4.74	-0.796	20.0
30	28.004	34.298	4.77	27.997	21.870	30.113	38.005	0.178	0.3	0.07	0.012	-0.30	-0.201	30.0
40	28.006	34.298	4.76	27.996	21.870	30.113	38.005	0.238	0.5	0.02	-0.006	-0.27	-0.189	40.0
50	28.007	34.298	4.76	27.995	21.871	30.114	38.006	0.297	0.8	-0.18	-0.019	1.05	0.374	50.0
100	25.592	34.876	4.70	25.570	23.075	31.371	39.313	0.578	2.9	-88.03	10.425	823.75	10.491	100.0
125	23.323	35.054	4.31	23.297	23.890	32.244	40.241	0.690	4.2	-72.10	8.334	665.52	9.430	125.0
150	20.743	35.040	4.05	20.715	24.603	33.031	41.096	0.785	5.5	-135.19	-7.137	780.98	10.215	149.9
200	14.370	34.554	3.91	14.340	25.771	34.417	42.687	0.926	8.0	-84.33	-5.907	332.35	6.664	199.7
250	11.321	34.509	1.72	11.290	26.341	35.105	43.486	1.027	10.3	-43.39	1.221	215.78	5.370	249.5
300	9.887	34.577	1.01	9.853	26.647	35.470	43.905	1.106	12.5	-17.94	1.780	106.61	3.774	299.2
350	9.247	34.607	0.89	9.208	26.777	35.627	44.088	1.175	14.8	-9.21	-0.005	36.81	2.218	348.9
400	8.906	34.611	0.88	8.862	26.836	35.701	44.176	1.240	17.3	-10.70	-0.432	34.00	2.132	398.6
450	8.372	34.586	1.06	8.325	26.900	35.789	44.287	1.303	20.0	-10.49	-0.576	29.50	1.985	448.3
500	7.995	34.577	1.01	7.944	26.950	35.857	44.371	1.364	22.9	-5.67	-0.084	19.70	1.623	498.0
600	7.159	34.537	1.50	7.101	27.040	35.986	44.537	1.478	29.4	-8.27	-0.279	24.49	1.809	597.3
700	6.423	34.527	1.46	6.359	27.133	36.114	44.698	1.585	36.4	-5.45	-0.021	18.47	1.571	696.5
800	5.839	34.526	1.55	5.768	27.208	36.217	44.828	1.685	44.1	-6.21	0.048	21.73	1.704	795.7
900	5.228	34.532	1.70	5.152	27.287	36.327	44.965	1.777	52.1	-4.79	0.070	17.00	1.507	894.8
1000	4.637	34.542	1.78	4.557	27.363	36.432	45.099	1.863	60.4	-6.11	0.195	23.34	1.766	993.9
1200	3.900	34.564	1.86	3.808	27.459	36.567	45.269	2.016	77.6	-3.66	0.096	13.03	1.319	1191.9
1400	3.172	34.586	2.00	3.071	27.548	36.694	45.432	2.152	95.5	-2.75	0.089	9.98	1.155	1389.6
1600	2.758	34.603	2.11	2.645	27.600	36.768	45.528	2.275	114.2	-1.82	0.088	7.15	0.978	1587.2
1800	2.404	34.621	2.29	2.278	27.646	36.834	45.611	2.387	133.7	-1.60	0.077	6.32	0.919	1784.6
2000	2.167	34.635	2.44	2.028	27.677	36.879	45.669	2.492	154.0	-0.96	0.055	4.03	0.734	1981.8
2200	2.003	34.644	2.59	1.849	27.699	36.910	45.709	2.592	175.5	-0.90	0.053	3.83	0.715	2178.8
2400	1.868	34.655	2.73	1.699	27.719	36.938	45.745	2.689	198.2	-0.65	0.031	2.70	0.601	2375.6
2600	1.773	34.660	2.85	1.588	27.731	36.957	45.770	2.783	222.2	-0.49	0.027	2.14	0.534	2572.3
2800	1.694	34.666	2.97	1.492	27.743	36.973	45.791	2.876	247.6	-0.45	0.023	1.99	0.516	2768.7
3000	1.640	34.670	3.08	1.420	27.751	36.986	45.808	2.967	274.6	-0.36	0.020	1.64	0.469	2965.0
3200	1.579	34.674	3.19	1.341	27.760	36.999	45.825	3.057	303.2	-0.34	0.019	1.59	0.461	3161.1
3400	1.544	34.678	3.30	1.287	27.767	37.009	45.837	3.146	333.3	-0.26	0.015	1.27	0.412	3357.1
3600	1.514	34.681	3.41	1.237	27.773	37.018	45.849	3.236	365.2	-0.31	0.020	1.58	0.459	3552.8
3800	1.480	34.684	3.52	1.183	27.779	37.027	45.861	3.325	398.7	-0.24	0.015	1.24	0.407	3748.4
4000	1.455	34.688	3.63	1.138	27.785	37.035	45.872	3.413	434.0	-0.21	0.015	1.13	0.389	3943.8
4200	1.451	34.689	3.72	1.112	27.788	37.040	45.877	3.502	471.1	-0.16	0.010	0.83	0.334	4139.0
4400	1.441	34.691	3.80	1.079	27.792	37.046	45.885	3.591	510.3	-0.14	0.010	0.78	0.323	4334.1
4600	1.436	34.693	3.87	1.052	27.795	37.051	45.891	3.681	551.5	-0.15	0.010	0.81	0.329	4529.0
4800	1.438	34.695	3.94	1.030	27.798	37.054	45.896	3.772	594.9	-0.10	0.007	0.58	0.277	4723.7
5000	1.449	34.696	3.98	1.017	27.800	37.057	45.899	3.863	640.6	-0.06	0.004	0.36	0.219	4918.3
5200	1.466	34.696	3.99	1.009	27.801	37.058	45.901	3.956	688.9	-0.02	0.003	0.36	0.000	5112.7
5213	1.468	34.696	3.99	1.008	27.801	37.058	45.901	3.962	692.2	-0.02	0.003	0.36	0.000	5125.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.7	27.979	27.979	21.878	30.122	38.014	34.301	34.304	4.82	1.51	0.11	0.10	0.00			0	222222255
23	146.3	19.601	19.574	24.855	33.319	41.418	34.975	34.993	4.04	3.93	0.42	4.10	0.00			145	222222255
21	196.9	14.115	14.086	25.806	34.462	42.740	34.530	34.578	3.99	10.68	0.86	11.40	0.00			195	222222255
20	298.4	9.806	9.772	26.664	35.490	43.929	34.581	34.581	0.95	36.67	2.46	34.30	0.00			296	222222255
19	394.3	8.850	8.807	26.842	35.710	44.187	34.608	34.606	0.93	41.30	2.56	36.50	0.00			391	222222255
17	495.7	7.837	7.787	26.973	35.886	44.407	34.576	34.571	1.00	49.26	2.72	38.10	0.00			492	222222255
16	598.4	6.965	6.908	27.071	36.026	44.585	34.542	34.539	1.24	58.43	2.79	39.00	0.00			594	222222255
15	748.4	6.017	5.950	27.185	36.186	44.788	34.527	34.525	1.57	69.41	2.81	39.20	0.00			742	222222255
14	895.6	5.196	5.120	27.292	36.334	44.974	34.534	34.532	1.72	82.71	2.84	40.00	0.00			888	222222255
13	1098.4	4.280	4.193	27.411	36.499	45.183	34.554	34.554	1.81	100.94	2.89	40.40	0.00			1089	222222255
11	1498.6	2.918	2.811	27.580	36.739	45.490	34.596	34.595	2.04	130.96	2.90	41.20	0.00			1484	222222255
9	2001.1	2.211	2.071	27.672	36.871	45.659	34.633	34.631	2.43	144.66	2.83	40.20	0.00			1980	222222255
7	2600.6	1.788	1.603	27.730	36.955	45.767	34.660	34.660	2.82	151.41	2.74	39.00	0.00	-0.017	-0.005	2570	222222222
6	3001.5	1.654	1.434	27.750	36.984	45.804	34.669	34.671	3.06	151.61	2.65	38.50	0.00	-0.008	-0.005	2963	222222222
5	3400.0	1.552	1.295	27.766	37.008	45.836	34.678	34.678	3.31	149.70	2.62	37.80	0.00	-0.001	-0.005	3353	222222222
4	3804.0	1.492	1.195	27.777	37.024	45.858	34.683	34.682	3.52	145.67	2.56	37.10	0.00	-0.001	-0.005	3748	222222222
3	4203.7	1.455	1.115	27.787	37.039	45.876	34.688	34.689	3.70	142.04	2.53	36.50	0.00	-0.001	-0.005	4139	222222222
2	4704.7	1.439	1.042	27.796	37.052	45.893	34.693	34.694	3.91	137.71	2.50	35.80	0.00	-0.002	-0.005	4627	222222222
1	5216.4	1.468	1.008	27.800	37.058	45.901	34.696	34.696	3.99	136.50	2.45	35.50	0.00	-0.003	-0.005	5124	222222222

CRUISE: MW 893 STA: 63 DATE (D/M/Y): 25- 2-89 TIME: 2331 . LAT: 9 28.97 N LONG: 158 19.43 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24028E-04 1/S SOUND SPEED= 1506.8 M/S Depth= 5273 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.102	34.221	5.00	28.102	21.778	30.019	37.910	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.102	34.221	5.00	28.102	21.778	30.019	37.910	0.018	0.0	-0.47	0.000	0.00	0.000	3.0
20	28.104	34.235	5.02	28.099	21.789	30.031	37.922	0.120	0.1	-0.03	0.084	1.74	0.482	20.0
30	28.106	34.236	4.94	28.099	21.790	30.032	37.922	0.181	0.3	-0.04	0.019	0.67	0.299	30.0
40	28.108	34.236	4.92	28.098	21.790	30.032	37.923	0.241	0.5	-0.06	0.050	1.37	0.428	40.0
50	28.109	34.237	4.94	28.097	21.791	30.033	37.923	0.301	0.8	0.00	-0.018	-0.29	-0.196	50.0
100	25.360	34.807	4.86	25.338	23.094	31.397	39.345	0.585	2.9	-109.65	10.945	982.58	11.459	100.0
125	22.393	34.998	4.40	22.368	24.115	32.495	40.516	0.694	4.2	-138.33	3.902	969.51	11.383	125.0
150	18.873	34.924	4.29	18.846	25.004	33.490	41.611	0.780	5.4	-116.53	-6.996	604.00	8.984	149.9
200	14.229	34.532	4.14	14.200	25.784	34.435	42.710	0.910	7.7	-87.83	-7.117	312.49	6.462	199.7
250	11.163	34.359	3.29	11.132	26.253	35.026	43.414	1.009	9.9	-30.01	3.654	198.27	5.148	249.5
300	9.588	34.544	1.36	9.555	26.671	35.507	43.955	1.089	12.2	-25.80	0.920	120.79	4.018	299.2
350	8.742	34.547	1.47	8.704	26.811	35.684	44.166	1.157	14.4	-7.05	0.720	40.44	2.325	348.9
400	8.369	34.553	1.48	8.327	26.873	35.763	44.261	1.220	16.8	-8.75	-0.111	31.15	2.040	398.6
450	8.013	34.552	1.51	7.967	26.927	35.833	44.347	1.281	19.5	-6.41	-0.042	23.10	1.757	448.3
500	7.664	34.542	1.60	7.614	26.971	35.894	44.422	1.341	22.4	-8.04	0.037	30.18	2.008	497.9
600	6.925	34.535	1.56	6.868	27.071	36.028	44.589	1.453	28.6	-8.06	-0.210	24.59	1.813	597.2
700	6.269	34.520	1.75	6.205	27.147	36.136	44.727	1.557	35.5	-5.45	-0.005	18.50	1.572	696.5
800	5.738	34.523	1.77	5.668	27.217	36.232	44.847	1.655	43.0	-5.85	-0.002	19.45	1.612	795.6
900	5.173	34.531	1.72	5.097	27.292	36.335	44.976	1.747	51.0	-5.51	0.191	21.40	1.691	894.8
1000	4.653	34.545	1.66	4.572	27.363	36.432	45.097	1.832	59.2	-4.04	0.117	15.06	1.419	993.8
1200	3.961	34.567	1.71	3.869	27.455	36.559	45.259	1.986	76.5	-3.58	0.082	12.66	1.301	1191.8
1400	3.212	34.588	1.93	3.110	27.546	36.690	45.426	2.124	94.8	-3.50	0.110	12.71	1.304	1389.6
1600	2.716	34.607	2.14	2.604	27.607	36.777	45.539	2.246	113.3	-1.99	0.083	7.55	1.004	1587.2
1800	2.401	34.622	2.34	2.275	27.646	36.835	45.612	2.357	132.6	-1.28	0.065	5.12	0.827	1784.6
2000	2.165	34.636	2.48	2.026	27.678	36.880	45.670	2.462	153.0	-1.26	0.066	5.18	0.832	1981.8
2200	1.971	34.648	2.63	1.817	27.704	36.917	45.718	2.562	174.3	-0.84	0.058	3.75	0.707	2178.8
2400	1.855	34.656	2.77	1.686	27.721	36.941	45.748	2.657	196.7	-0.51	0.035	2.30	0.555	2375.6
2600	1.771	34.661	2.88	1.586	27.732	36.958	45.770	2.751	220.7	-0.48	0.026	2.09	0.529	2572.3
2800	1.693	34.666	3.00	1.491	27.743	36.974	45.792	2.844	246.1	-0.48	0.025	2.12	0.532	2768.7
3000	1.630	34.671	3.11	1.410	27.752	36.988	45.810	2.935	273.0	-0.44	0.024	2.01	0.518	2965.0
3200	1.577	34.675	3.23	1.339	27.761	37.000	45.826	3.024	301.4	-0.32	0.018	1.51	0.450	3161.1
3400	1.534	34.678	3.35	1.277	27.768	37.011	45.840	3.114	331.5	-0.28	0.017	1.37	0.428	3357.0
3600	1.494	34.682	3.47	1.217	27.775	37.021	45.853	3.202	363.2	-0.24	0.015	1.22	0.404	3552.8
3800	1.478	34.685	3.56	1.181	27.780	37.028	45.862	3.291	396.6	-0.21	0.014	1.11	0.384	3748.4
4000	1.460	34.688	3.66	1.142	27.785	37.035	45.871	3.380	431.8	-0.20	0.013	1.06	0.376	3943.8
4200	1.449	34.689	3.75	1.109	27.788	37.040	45.878	3.468	469.0	-0.14	0.009	0.76	0.319	4139.0
4400	1.447	34.691	3.83	1.085	27.792	37.045	45.884	3.558	508.2	-0.15	0.010	0.82	0.332	4334.1
4600	1.442	34.693	3.91	1.057	27.795	37.050	45.890	3.648	549.5	-0.12	0.008	0.69	0.303	4529.0
4800	1.440	34.695	3.98	1.032	27.798	37.054	45.896	3.739	593.0	-0.13	0.010	0.77	0.320	4723.7
5000	1.453	34.696	4.04	1.020	27.800	37.056	45.899	3.830	638.7	-0.02	0.002	0.13	0.132	4918.2
5200	1.475	34.696	4.06	1.017	27.800	37.057	45.900	3.923	687.1	-0.01	0.002	0.13	0.000	5112.6
5207	1.475	34.697	4.06	1.016	27.800	37.058	45.900	3.926	688.9	-0.01	0.002	0.13	0.000	5119.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.7	28.143	28.142	21.772	30.012	37.902	34.230	34.230	5.06	1.41	0.10	0.00	0.00	1.648	0.859	0	222222222
23	48.1	28.131	28.119	21.779	30.020	37.910	34.230	34.234	5.10	1.41	0.10	0.00	0.00	1.649	0.883	47	222222222
22	67.6	28.099	28.083	21.805	30.047	37.938	34.249	34.235	4.93	1.51	0.12	0.00	0.00	1.747	0.876	67	222222222
21	86.1	27.663	27.642	22.098	30.348	38.246	34.448	34.438	5.07	1.71	0.16	0.00	0.00	1.676	0.871	85	222222222
19	197.5	15.368	15.337	25.622	34.230	42.465	34.642	34.684	4.11	8.10	0.72	8.80	0.00	2.141	0.966	196	222222222
18	297.8	9.662	9.628	26.641	35.474	43.920	34.521	34.484	1.49	36.97	2.33	32.00	0.00	0.252		295	222222225
17	398.6	8.475	8.433	26.860	35.745	44.238	34.556	34.553	1.36	44.22	2.52	35.50	0.00	0.084	0.035	395	222222222
16	496.5	7.712	7.662	26.974	35.894	44.421	34.555	34.545	1.52	49.06	2.58	36.40	0.00	0.060	0.030	493	222222222
15	598.0	6.863	6.807	27.078	36.038	44.602	34.534	34.531	1.50	58.33	2.73	38.00	0.00	0.070	0.028	593	222222222
13	998.3	4.707	4.626	27.355	36.421	45.084	34.542	34.541	1.60	92.78	2.94	41.20	0.00	0.020		990	222222225
12	1198.8	3.862	3.770	27.468	36.577	45.281	34.570	34.568	1.68	109.91	3.01	41.90	0.00	-0.015		1188	222222225
11	1398.7	3.183	3.082	27.549	36.694	45.432	34.588	34.587	1.91	125.22	2.94	41.50	0.00		0.001	1386	222222252
10	1589.1	2.722	2.610	27.608	36.778	45.539	34.609	34.605	2.12	135.09	2.91	41.10	0.00	0.000	0.007	1574	222222252
9	1800.5	2.348	2.223	27.653	36.844	45.625	34.625	34.625	2.32	142.14	2.86	40.50	0.00	0.010		1782	222222225
8	2001.8	2.151	2.012	27.681	36.883	45.674	34.638	34.635	2.48	146.38	2.81	40.20	0.00	0.000	-0.005	1981	222222252
7	2499.5	1.817	1.640	27.726	36.949	45.759	34.659	34.657	2.78	151.01	2.73	39.30	0.00	-0.011	-0.005	2470	222222222
6	2999.7	1.644	1.424	27.752	36.986	45.807	34.671	34.669	3.10	151.41	2.67	38.60	0.00	-0.006	-0.004	2961	222222222
5	3504.1	1.523	1.256	27.771	37.014	45.844	34.680	34.678	3.42	148.39	2.58	37.70	0.00	0.004	-0.005	3455	222222222
4	4003.4	1.466	1.148	27.783	37.033	45.869	34.686	34.685	3.65	143.76	2.52	36.80	0.00	0.001	-0.005	3943	222222222
3	4504.8	1.444	1.070	27.793	37.047	45.886	34.691	34.691	3.89	138.92	2.47	36.20	0.00	0.008	-0.005	4432	222222222
2	5006.8	1.454	1.021	27.799	37.056	45.898	34.695	34.697	4.00	136.40	2.48	35.70	0.00	0.008	-0.004	4920	222222222
1	5209.1	1.475	1.016	27.800	37.057	45.900	34.696	34.695	3.96	135.80	2.43	35.60	0.00	0.000	-0.005	5117	222222252

CRUISE: MW 893 STA: 64 DATE (D/M/Y): 26- 2-89 TIME: 0919 LAT: 9 29.35 N LONG: 159 9.94 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24044E-04 1/S SOUND SPEED= 1506.4 M/S Depth= 5262 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.125	34.286	4.10	28.125	21.819	30.060	37.949	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.125	34.286	4.10	28.124	21.820	30.060	37.949	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.137	34.278	4.76	28.132	21.811	30.051	37.940	0.120	0.1	0.15	0.135	1.24	0.407	20.0
30	28.140	34.278	4.77	28.133	21.811	30.051	37.941	0.180	0.3	-0.10	-0.221	-3.18	-0.651	30.0
40	28.141	34.278	4.77	28.131	21.811	30.051	37.940	0.240	0.5	-0.05	0.191	3.76	0.708	40.0
50	28.142	34.280	4.70	28.130	21.813	30.053	37.942	0.300	0.8	-0.36	-0.163	-0.11	-0.123	50.0
100	26.887	34.612	4.71	26.864	22.471	30.738	38.652	0.595	3.0	-87.11	11.084	840.89	10.597	100.0
125	23.759	34.881	4.38	23.733	23.632	31.976	39.963	0.719	4.4	-201.21	7.955	1522.72	14.261	125.0
150	20.069	34.889	3.99	20.041	24.668	33.118	41.204	0.812	5.7	-103.37	-3.082	582.90	8.823	149.9
200	13.593	34.492	3.72	13.565	25.885	34.560	42.858	0.945	8.1	-85.73	-5.439	326.93	6.608	199.7
250	10.820	34.410	2.48	10.789	26.355	35.141	43.542	1.041	10.3	-20.61	1.761	122.36	4.042	249.5
300	9.958	34.514	1.42	9.923	26.586	35.407	43.841	1.122	12.5	-22.20	2.219	132.02	4.199	299.2
350	8.917	34.556	1.30	8.879	26.790	35.655	44.130	1.192	14.8	-13.71	-0.091	51.93	2.634	348.9
400	8.506	34.561	1.29	8.464	26.859	35.743	44.235	1.256	17.3	-9.93	-0.307	32.16	2.073	398.6
450	8.046	34.560	1.21	8.000	26.928	35.833	44.345	1.317	20.0	-8.23	-0.367	24.01	1.791	448.3
500	7.561	34.524	1.41	7.511	26.972	35.899	44.432	1.376	22.8	-10.00	-0.457	28.06	1.936	498.0
600	6.913	34.530	1.31	6.856	27.068	36.026	44.588	1.488	29.1	-8.12	-0.353	22.36	1.728	597.3
700	6.143	34.518	1.51	6.080	27.162	36.157	44.753	1.592	36.0	-7.48	0.024	26.06	1.866	696.5
800	5.594	34.528	1.52	5.525	27.239	36.260	44.882	1.688	43.3	-4.92	0.022	16.71	1.494	795.7
900	5.083	34.534	1.59	5.008	27.305	36.352	44.997	1.778	51.1	-5.47	0.119	19.94	1.632	894.8
1000	4.589	34.545	1.62	4.509	27.370	36.442	45.111	1.861	59.2	-4.44	0.180	17.45	1.527	993.9
1200	3.843	34.566	1.76	3.752	27.466	36.577	45.282	2.013	76.2	-3.42	0.075	11.93	1.262	1191.9
1400	3.255	34.584	1.97	3.152	27.539	36.681	45.415	2.150	94.3	-2.82	0.089	10.20	1.167	1389.6
1600	2.763	34.606	2.12	2.650	27.602	36.770	45.529	2.272	113.0	-1.83	0.073	6.86	0.958	1587.2
1800	2.405	34.622	2.29	2.280	27.646	36.834	45.612	2.385	132.5	-1.42	0.075	5.74	0.876	1784.6
2000	2.160	34.637	2.44	2.021	27.679	36.881	45.672	2.490	152.8	-1.13	0.071	4.83	0.804	1981.8
2200	2.005	34.647	2.57	1.851	27.701	36.912	45.711	2.589	174.1	-0.57	0.036	2.47	0.574	2178.8
2400	1.904	34.654	2.69	1.735	27.715	36.932	45.738	2.687	196.9	-0.62	0.028	2.57	0.586	2375.6
2600	1.805	34.659	2.79	1.619	27.728	36.952	45.763	2.782	221.2	-0.61	0.033	2.67	0.597	2572.3
2800	1.701	34.666	2.93	1.499	27.743	36.973	45.790	2.874	246.7	-0.43	0.022	1.87	0.500	2768.7
3000	1.639	34.670	3.05	1.419	27.751	36.986	45.808	2.966	273.8	-0.37	0.023	1.76	0.484	2965.0
3200	1.587	34.674	3.17	1.349	27.760	36.998	45.824	3.056	302.4	-0.39	0.022	1.84	0.495	3161.1
3400	1.533	34.679	3.29	1.276	27.768	37.011	45.840	3.146	332.5	-0.33	0.020	1.59	0.461	3357.1
3600	1.498	34.682	3.41	1.221	27.775	37.021	45.853	3.235	364.2	-0.20	0.014	1.04	0.372	3552.8
3800	1.482	34.684	3.50	1.186	27.779	37.027	45.861	3.323	397.7	-0.20	0.013	1.03	0.372	3748.4
4000	1.478	34.686	3.58	1.160	27.782	37.031	45.867	3.412	433.1	-0.10	0.007	0.55	0.270	3943.8
4200	1.468	34.688	3.66	1.128	27.786	37.037	45.874	3.502	470.7	-0.19	0.012	1.00	0.366	4139.0
4400	1.464	34.690	3.74	1.101	27.790	37.042	45.880	3.592	510.2	-0.13	0.009	0.74	0.314	4334.1
4600	1.463	34.692	3.82	1.077	27.793	37.046	45.886	3.683	551.9	-0.13	0.010	0.76	0.318	4529.0
4800	1.464	34.693	3.89	1.055	27.795	37.050	45.891	3.775	595.8	-0.10	0.007	0.61	0.284	4723.7
5000	1.466	34.695	3.97	1.033	27.798	37.054	45.896	3.867	642.0	-0.12	0.008	0.68	0.302	4918.3
5135	1.467	34.696	4.01	1.017	27.800	37.057	45.900	3.930	674.5	-0.15	0.011	0.68	0.000	5049.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.010	28.010	21.875	30.118	38.010	34.310	34.308	4.95	1.51	0.16	0.10	0.00			1	222222255
23	46.0	28.018	28.008	21.874	30.117	38.009	34.309	34.311	4.73	1.61	0.16	0.10	0.00			45	222222255
21	148.1	19.934	19.907	24.710	33.164	41.255	34.899	34.892	3.86	5.14	0.58	5.50	0.00			147	222222255
20	322.3	9.337	9.301	26.730	35.577	44.034	34.566	34.564	1.09	39.89	2.50	34.90	0.00			320	222222255
18	399.2	8.523	8.481	26.846	35.729	44.221	34.548	34.547	1.38	44.43	2.51	35.40	0.00			396	222222255
17	446.0	8.128	8.082	26.903	35.804	44.313	34.544	34.542	1.33	47.55	2.59	36.20	0.00			443	222222255
16	571.5	7.179	7.124	27.040	35.985	44.534	34.540	34.540	1.33	51.18	2.64	37.10	0.00			567	222222255
15	698.8	6.121	6.058	27.167	36.163	44.760	34.521	34.521	1.41	69.21	2.83	39.80	0.00			693	222222255
14	794.9	5.626	5.557	27.235	36.255	44.875	34.528	34.528	1.49	76.66	2.87	40.50	0.00			788	222222255
12	998.3	4.483	4.404	27.383	36.461	45.134	34.547	34.547	1.62	97.72	2.97	41.40	0.00			990	222222255
11	1398.6	3.119	3.018	27.553	36.702	45.443	34.586	34.588	2.01	127.13	2.92	41.20	0.00			1386	222222255
10	1598.9	2.708	2.595	27.609	36.780	45.542	34.609	34.607	2.18	135.09	2.86	40.90	0.00			1583	222222255
8	1801.3	2.401	2.276	27.647	36.835	45.612	34.622		2.39	144.16	2.86	40.50	0.00			1783	252222255
6	2501.1	1.884	1.706	27.718	36.937	45.744	34.655	34.656	2.76	150.81	2.79	39.50	0.00			2472	222222255
5	3005.4	1.669	1.448	27.748	36.981	45.801	34.669	34.669	3.04	151.71	2.71	38.50	0.00			2967	222222255
4	3504.1	1.525	1.258	27.771	37.014	45.844	34.680	34.680	3.38	148.29	2.59	37.60	0.00			3455	222222255
3	4006.9	1.483	1.164	27.781	37.030	45.865	34.685	34.688	3.59	145.17	2.55	37.00	0.00			3947	222222255
2	4517.3	1.464	1.088	27.791	37.044	45.883	34.691	34.694	3.80	140.73	2.52	36.30	0.00			4444	222222255
1	5136.4	1.468	1.018	27.799	37.056	45.898	34.695	34.696	4.04	135.90	2.45	35.70	0.00	-0.005	-0.003	5046	222222222

CRUISE: MW 893 STA: 65 DATE (D/M/Y): 26- 2-89 TIME: 1906 LAT: 9 29.27 N LONG: 159 59.80 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24040E-04 1/S SOUND SPEED= 1506.7 M/S Depth= 5177 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.761	34.388	4.56	27.761	22.014	30.262	38.159	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.761	34.388	4.56	27.761	22.015	30.262	38.159	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.778	34.379	4.66	27.773	22.004	30.251	38.148	0.116	0.1	-0.16	0.043	1.95	0.511	20.0
30	27.779	34.378	4.75	27.772	22.004	30.251	38.148	0.174	0.3	0.08	-0.042	-1.33	-0.421	30.0
40	27.781	34.378	4.71	27.771	22.004	30.251	38.148	0.233	0.5	-0.02	0.042	0.88	0.342	40.0
50	27.783	34.378	4.74	27.772	22.004	30.251	38.148	0.291	0.7	-0.27	0.010	2.22	0.545	50.0
100	25.464	34.733	4.61	25.442	23.006	31.307	39.254	0.567	2.8	-130.67	6.593	1039.35	11.783	100.0
125	21.466	34.792	4.03	21.442	24.216	32.625	40.674	0.672	4.0	-98.53	-4.419	577.92	8.786	124.9
150	19.154	34.765	3.76	19.127	24.810	33.290	41.404	0.759	5.3	-124.13	0.327	774.16	10.169	149.9
200	13.939	34.512	3.40	13.910	25.829	34.491	42.776	0.892	7.6	-85.89	-4.826	348.28	6.821	199.7
250	11.200	34.455	2.25	11.169	26.321	35.091	43.476	0.990	9.9	-42.61	1.273	214.06	5.347	249.5
300	10.085	34.576	1.09	10.050	26.613	35.427	43.855	1.070	12.1	-13.26	0.642	67.26	2.997	299.2
350	9.655	34.637	0.81	9.615	26.734	35.566	44.010	1.141	14.5	-10.00	0.570	51.30	2.618	348.9
400	9.110	34.627	0.81	9.066	26.816	35.672	44.139	1.209	17.0	-17.74	-1.374	45.07	2.454	398.6
450	8.378	34.568	1.20	8.330	26.885	35.774	44.272	1.272	19.8	-8.30	-0.413	24.10	1.794	448.3
500	8.017	34.556	1.27	7.966	26.930	35.836	44.350	1.334	22.7	-10.74	-0.292	34.67	2.152	497.9
600	6.953	34.537	1.28	6.896	27.069	36.024	44.584	1.447	29.1	-8.12	-0.049	28.07	1.936	597.2
700	6.281	34.531	1.31	6.217	27.154	36.142	44.732	1.552	36.0	-6.71	-0.044	22.20	1.722	696.5
800	5.665	34.535	1.28	5.595	27.236	36.254	44.872	1.648	43.4	-5.53	0.056	19.46	1.612	795.6
900	5.075	34.538	1.48	5.000	27.309	36.356	45.002	1.738	51.2	-5.86	0.114	21.00	1.675	894.8
1000	4.627	34.551	1.49	4.546	27.371	36.441	45.108	1.821	59.3	-3.27	0.048	11.09	1.217	993.8
1200	3.802	34.567	1.80	3.711	27.471	36.584	45.291	1.974	76.3	-4.28	0.100	15.04	1.417	1191.8
1400	3.107	34.591	1.98	3.006	27.558	36.707	45.448	2.107	93.9	-2.87	0.107	10.64	1.192	1389.6
1600	2.685	34.608	2.13	2.573	27.611	36.783	45.546	2.226	112.1	-1.59	0.070	6.10	0.903	1587.2
1800	2.411	34.621	2.28	2.285	27.645	36.833	45.610	2.337	131.5	-1.33	0.061	5.18	0.832	1784.6
2000	2.192	34.635	2.40	2.052	27.675	36.875	45.664	2.443	151.9	-1.06	0.058	4.38	0.765	1981.8
2200	2.010	34.646	2.54	1.856	27.700	36.910	45.709	2.544	173.5	-0.93	0.054	3.99	0.730	2178.8
2400	1.881	34.654	2.67	1.712	27.717	36.936	45.742	2.641	196.3	-0.71	0.038	3.02	0.635	2375.6
2600	1.770	34.661	2.81	1.585	27.732	36.958	45.771	2.735	220.3	-0.54	0.029	2.36	0.562	2572.2
2800	1.707	34.666	2.92	1.504	27.742	36.972	45.789	2.828	245.8	-0.49	0.026	2.16	0.537	2768.7
3000	1.630	34.671	3.06	1.410	27.753	36.988	45.810	2.919	272.8	-0.45	0.024	2.03	0.521	2965.0
3200	1.572	34.675	3.18	1.334	27.761	37.001	45.827	3.009	301.1	-0.31	0.018	1.44	0.438	3161.1
3400	1.523	34.679	3.30	1.266	27.770	37.013	45.842	3.098	331.1	-0.33	0.018	1.57	0.458	3357.0
3600	1.496	34.682	3.41	1.219	27.775	37.021	45.853	3.186	362.7	-0.23	0.013	1.13	0.388	3552.8
3800	1.472	34.685	3.52	1.175	27.780	37.029	45.863	3.275	396.1	-0.24	0.016	1.24	0.406	3748.3
4000	1.461	34.687	3.61	1.143	27.785	37.035	45.871	3.363	431.3	-0.10	0.007	0.52	0.264	3943.7
4200	1.449	34.690	3.70	1.110	27.789	37.040	45.878	3.452	468.5	-0.15	0.010	0.81	0.328	4139.0
4400	1.442	34.691	3.79	1.080	27.792	37.046	45.885	3.542	507.7	-0.15	0.009	0.78	0.323	4334.0
4600	1.441	34.693	3.87	1.056	27.795	37.050	45.890	3.631	549.0	-0.11	0.007	0.62	0.288	4528.9
4800	1.443	34.695	3.94	1.035	27.798	37.054	45.896	3.722	592.4	-0.09	0.006	0.48	0.254	4723.7
5000	1.441	34.697	4.02	1.009	27.801	37.059	45.902	3.813	638.1	-0.09	0.007	0.55	0.271	4918.2
5183	1.456	34.698	4.05	1.001	27.803	37.060	45.904	3.898	682.0	-0.03	0.001	0.55	0.000	5096.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	21.9	27.795	27.790	21.990	30.238	38.134	34.369	34.368	4.57	1.41	0.14	-0.01	0.01	1.634	0.858	21	222222222
23	46.1	27.799	27.789	21.991	30.238	38.134	34.368	34.368	4.63	1.41	0.15	-0.01	0.01	1.682	0.886	45	222222222
22	70.1	27.802	27.786	21.992	30.239	38.135	34.369	34.368	4.60	1.41	0.19	-0.01	0.01	1.751	0.868	69	222222222
21	98.7	26.740	26.718	22.513	30.784	38.701	34.607	34.836	4.22	2.52	0.33	1.27	0.13	1.730	0.876	98	222222222
20	121.8	23.136	23.111	23.790	32.151	40.155	34.851	34.837	4.20	2.72	0.35	1.38	0.12	1.722	0.890	121	222222222
19	148.4	19.278	19.252	24.746	33.222	41.333	34.722	34.725	3.84	7.35	0.76	9.20	0.00	1.981	0.899	147	222222222
18	174.1	16.949	16.921	25.320	33.873	42.055	34.722	34.725	3.82	7.56	0.78	9.30	0.00			173	222222255
17	198.1	14.407	14.378	25.754	34.398	42.667	34.542	34.536		28.71	2.23	29.00	0.00	0.491	0.219	196	225222222
16	248.6	11.213	11.182	26.387	35.155	43.539	34.543	34.527	1.56	28.70	2.16	28.60	0.00			247	222222255
14	396.9	9.039	8.996	26.825	35.684	44.154	34.625	34.624	0.82	40.60	2.67	36.70	0.00			394	222222255
12	997.1	4.765	4.683	27.350	36.413	45.073	34.544	34.544	1.47	91.98	3.01	41.40	0.00	-0.006	0.001	989	222222222
11	1498.1	3.032	2.924	27.567	36.720	45.466	34.592	34.593	1.99	128.65	2.94	41.00	0.00			1484	222222255
9	1999.4	2.239	2.099	27.669	36.867	45.653	34.632	34.634	2.41	144.66	2.85	40.10	0.00	0.011	-0.005	1978	222222222
7	2501.0	1.848	1.671	27.722	36.943	45.752	34.657	34.657	2.77	151.01	2.78	39.10	0.00	-0.010	-0.005	2472	222222222
6	2754.1	1.730	1.532	27.739	36.967	45.783	34.665	34.667	2.94	151.71	2.75	38.70	0.00			2720	222222255
5	3002.2	1.645	1.425	27.751	36.985	45.807	34.670	34.671	3.09	151.11	2.70	38.20	0.00	0.020	-0.005	2964	222222222
4	3504.9	1.515	1.248	27.771	37.015	45.845	34.679	34.681	3.41	147.58	2.62	37.40	0.00	0.010	-0.005	3456	222222222
3	4004.2	1.458	1.140	27.785	37.035	45.871	34.687	34.688	3.66	143.15	2.55	36.50	0.00	0.015	-0.005	3944	222222222
2	4806.8	1.443	1.034	27.797	37.053	45.895	34.694	34.695	3.97	136.91	2.49	35.60	0.00			4726	222222255
1	5183.9	1.456	1.001	27.801	37.059	45.903	34.696	34.698	4.06	134.69	2.45	34.90	0.00	0.004	-0.005	5093	222222222

CRUISE: MW 893 STA: 66 DATE (D/M/Y): 27- 2-89 TIME: 0505 LAT: 9 24.46 N LONG: 160 49.94 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.23839E-04 1/S SOUND SPEED= 1504.1 M/S Depth= 4737 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.056	34.249	4.89	28.056	21.814	30.056	37.948	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.056	34.249	4.89	28.055	21.814	30.057	37.948	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.067	34.288	4.74	28.062	21.842	30.083	37.974	0.119	0.1	-1.20	0.014	9.38	1.124	20.0
30	28.050	34.288	4.70	28.043	21.848	30.090	37.981	0.179	0.3	-1.89	-0.050	13.52	1.349	30.0
40	28.035	34.288	4.71	28.026	21.853	30.096	37.987	0.239	0.5	-0.75	0.022	6.12	0.908	40.0
50	28.032	34.288	4.69	28.020	21.855	30.098	37.990	0.299	0.8	-0.25	0.047	2.74	0.607	50.0
100	26.346	34.713	4.77	26.323	22.718	30.997	38.923	0.587	3.0	-80.45	12.648	808.70	10.437	100.0
125	24.079	34.959	4.52	24.052	23.596	31.931	39.909	0.706	4.3	-106.35	6.875	866.19	10.802	125.0
150	21.310	34.921	4.08	21.281	24.358	32.771	40.822	0.805	5.7	-170.98	-13.024	782.03	10.264	149.9
200	12.772	34.423	3.54	12.745	25.997	34.704	43.032	0.939	8.0	-96.23	-5.165	370.19	7.061	199.7
250	10.487	34.441	2.18	10.458	26.437	35.236	43.650	1.030	10.1	-19.44	2.346	124.70	4.098	249.5
300	9.778	34.549	1.32	9.744	26.644	35.472	43.912	1.107	12.3	-11.76	1.258	70.58	3.083	299.2
350	9.305	34.583	1.05	9.266	26.749	35.597	44.056	1.178	14.6	-4.86	1.495	46.61	2.506	348.9
400	8.936	34.597	0.98	8.892	26.820	35.684	44.158	1.244	17.2	-9.87	-0.241	34.57	2.158	398.6
450	8.640	34.612	1.02	8.591	26.879	35.757	44.243	1.308	20.0	-8.70	-0.356	27.10	1.911	448.3
500	8.261	34.593	1.06	8.209	26.923	35.818	44.320	1.370	22.9	-5.40	-0.299	15.02	1.423	498.0
600	7.599	34.568	1.02	7.538	27.002	35.928	44.459	1.489	29.6	-7.93	-0.275	24.33	1.810	597.3
700	7.099	34.549	1.08	7.031	27.060	36.009	44.563	1.602	37.1	-6.40	-0.212	18.81	1.592	696.5
800	6.257	34.533	1.23	6.184	27.160	36.150	44.741	1.708	45.2	-9.12	-0.107	29.66	1.999	795.7
900	5.521	34.531	1.46	5.444	27.251	36.277	44.902	1.805	53.6	-7.14	0.042	24.52	1.818	894.8
1000	4.836	34.543	1.57	4.754	27.341	36.401	45.058	1.893	62.2	-6.70	0.155	24.46	1.815	993.9
1200	3.951	34.565	1.78	3.859	27.455	36.559	45.259	2.050	79.7	-4.02	0.100	14.25	1.386	1191.9
1400	3.288	34.586	1.96	3.185	27.537	36.677	45.410	2.188	97.9	-3.22	0.114	11.89	1.265	1389.7
1600	2.815	34.604	2.12	2.701	27.596	36.761	45.518	2.311	116.9	-1.98	0.079	7.45	1.002	1587.3
1800	2.487	34.619	2.27	2.361	27.637	36.821	45.594	2.426	136.6	-1.30	0.058	5.04	0.824	1784.7
2000	2.229	34.632	2.42	2.089	27.670	36.868	45.655	2.533	157.5	-1.16	0.062	4.72	0.797	1981.9
2200	2.037	34.644	2.57	1.883	27.696	36.905	45.703	2.635	179.3	-0.83	0.044	3.45	0.681	2178.9
2400	1.931	34.652	2.69	1.761	27.711	36.927	45.731	2.733	202.4	-0.56	0.032	2.38	0.567	2375.7
2600	1.823	34.659	2.80	1.637	27.726	36.949	45.759	2.829	226.8	-0.62	0.033	2.66	0.599	2572.3
2800	1.729	34.664	2.93	1.526	27.739	36.968	45.784	2.923	252.7	-0.46	0.025	2.04	0.524	2768.8
3000	1.667	34.668	3.05	1.446	27.748	36.981	45.801	3.016	280.0	-0.48	0.024	2.14	0.537	2965.1
3200	1.605	34.673	3.18	1.367	27.757	36.995	45.819	3.107	308.8	-0.33	0.017	1.53	0.453	3161.2
3400	1.555	34.677	3.30	1.298	27.765	37.007	45.835	3.197	339.3	-0.32	0.018	1.54	0.456	3357.1
3600	1.521	34.680	3.41	1.244	27.772	37.016	45.847	3.287	371.3	-0.32	0.020	1.61	0.465	3552.9
3800	1.466	34.685	3.56	1.169	27.781	37.029	45.864	3.376	404.9	-0.32	0.021	1.65	0.472	3748.5
4000	1.452	34.687	3.68	1.134	27.785	37.036	45.872	3.464	440.0	-0.22	0.016	1.18	0.398	3943.9
4200	1.434	34.690	3.78	1.095	27.790	37.043	45.881	3.553	477.0	-0.15	0.012	0.85	0.338	4139.1
4400	1.428	34.692	3.86	1.067	27.794	37.048	45.888	3.642	516.0	-0.16	0.011	0.85	0.339	4334.2
4600	1.424	34.694	3.94	1.039	27.797	37.053	45.894	3.731	557.0	-0.12	0.009	0.68	0.304	4529.1
4735	1.429	34.695	3.98	1.028	27.798	37.055	45.897	3.792	585.9	-0.08	0.005	0.68	0.000	4660.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	28.035	28.033	21.853	30.095	37.987	34.291	34.288	4.84	1.41	0.13	0.00	0.00	1.674	0.872	6	222222222
23	46.3	28.045	28.034	21.851	30.093	37.985	34.288	34.288	4.73	1.41	0.15	0.10	0.00	1.724	0.890	46	222222222
21	148.0	18.029	18.004	25.050	33.567	41.715	34.710	34.713	3.52	7.45	0.80	8.88	0.12	1.602	0.807	147	222222222
19	246.7	10.431	10.402	26.454	35.255	43.671	34.450	34.446	1.84	30.93	2.11	28.40	0.00		0.267	245	222222252
17	346.2	8.950	8.913	26.791	35.655	44.129	34.564	34.562	1.02	41.61	2.55	35.50	0.00	0.094	0.058	343	222222222
16	394.6	8.546	8.504	26.881	35.762	44.252	34.597	34.598	0.98	43.42	2.64	36.80	0.00	0.053	0.018	392	222222222
14	496.0	7.795	7.745	26.956	35.873	44.395	34.547	34.581	0.87	49.46	2.78	38.60	0.00		0.002	492	222222252
13	596.3	7.233	7.175	27.046	35.988	44.536	34.557	34.555	0.96	55.71	2.86	39.20	0.00	0.021	0.017	592	222222222
12	696.8	6.366	6.303	27.151	36.135	44.721	34.541	34.533	1.12	65.98	2.91	40.30	0.00	-0.004	0.001	691	222222222
11	796.3	5.735	5.665	27.223	36.237	44.852	34.529	34.529	1.41	74.45	2.90	40.09	0.01	0.021	-0.005	790	222222222
10	999.3	4.544	4.464	27.379	36.453	45.124	34.550	34.549	1.64	95.50	2.94	41.19	0.01	0.008	0.014	991	222222222
9	1248.7	3.744	3.649	27.480	36.596	45.306	34.570	34.568	1.86	112.02	2.92	40.89	0.01		-0.005	1237	222222252
8	1497.3	2.986	2.878	27.574	36.730	45.478	34.597	34.596	2.03	128.75	2.91	40.89	0.01	-0.004	-0.005	1483	222222222
7	2000.6	2.212	2.072	27.673	36.872	45.660	34.635	34.633	2.42	145.07	2.83	40.09	0.01	-0.008	-0.005	1979	222222222
6	2502.9	1.878	1.700	27.719	36.939	45.746	34.656	34.655	2.74	150.71	2.77	39.29	0.01	0.002	-0.004	2474	222222222
5	3002.9	1.678	1.457	27.748	36.980	45.800	34.669			152.02	2.69	38.59	0.01	0.005	-0.005	2964	255222222
4	3503.1	1.535	1.268	27.770	37.013	45.842	34.680			148.29	2.59	37.39	0.01	0.014	-0.005	3454	255222222
3	4006.7	1.453	1.135	27.785	37.036	45.872	34.688		3.67	142.45	2.51	36.49	0.01		-0.005	3946	252222252
1	4736.7	1.428	1.028	27.798	37.054	45.896	34.694	34.696	3.99	136.00	2.45	35.59	0.01	0.000	-0.005	4658	222222252

CRUISE: MW 893 STA: 67 DATE (D/M/Y): 27- 2-89 TIME: 1442 LAT: 9 29.54 N LONG: 161 39.12 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1505.1 M/S Depth= 4916 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.500	34.451	3.99	27.500	22.146	30.399	38.301	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.500	34.451	3.99	27.500	22.146	30.400	38.301	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.519	34.443	4.78	27.514	22.135	30.388	38.290	0.114	0.1	-0.60	0.103	6.40	0.925	20.0
30	27.518	34.443	4.86	27.511	22.137	30.390	38.291	0.171	0.3	0.03	-0.032	-0.80	-0.328	30.0
40	27.522	34.443	4.80	27.513	22.136	30.389	38.291	0.228	0.5	0.04	-0.010	-0.46	-0.248	40.0
50	27.526	34.443	4.78	27.514	22.135	30.388	38.290	0.285	0.7	0.23	-0.001	-1.75	-0.483	50.0
100	27.535	34.466	4.82	27.512	22.154	30.407	38.308	0.570	2.9	-32.50	6.187	352.45	6.860	100.0
125	25.587	34.779	4.79	25.560	23.005	31.302	39.245	0.707	4.5	-172.20	16.017	1488.70	14.098	125.0
150	21.161	35.005	4.28	21.132	24.463	32.879	40.933	0.808	5.9	-143.68	-8.180	743.33	9.962	149.9
200	13.027	34.454	3.19	13.000	25.971	34.668	42.986	0.942	8.2	-77.49	-1.707	346.21	6.799	199.7
250	10.887	34.557	1.51	10.857	26.457	35.238	43.634	1.033	10.3	-25.26	2.205	149.52	4.468	249.5
300	9.904	34.597	0.98	9.870	26.660	35.482	43.917	1.108	12.4	-14.72	0.462	69.18	3.039	299.2
350	9.377	34.632	0.86	9.338	26.776	35.620	44.075	1.177	14.7	-9.70	0.007	39.02	2.282	348.9
400	8.799	34.615	0.88	8.756	26.856	35.726	44.205	1.242	17.2	-8.62	-0.340	27.43	1.914	398.6
450	8.437	34.604	0.90	8.390	26.904	35.790	44.285	1.304	19.9	-7.72	-0.231	25.44	1.843	448.3
500	8.145	34.590	0.93	8.094	26.938	35.838	44.346	1.365	22.8	-6.76	-0.344	19.31	1.606	498.0
600	7.430	34.555	1.11	7.370	27.017	35.950	44.489	1.482	29.4	-7.01	-0.252	21.03	1.676	597.3
700	6.721	34.539	1.17	6.655	27.103	36.070	44.641	1.591	36.7	-7.81	-0.129	25.34	1.839	696.5
800	6.057	34.527	1.35	5.985	27.181	36.180	44.781	1.694	44.5	-8.03	0.053	28.17	1.939	795.7
900	5.271	34.536	1.42	5.195	27.285	36.323	44.959	1.787	52.6	-6.50	0.020	21.75	1.704	894.8
1000	4.771	34.547	1.54	4.689	27.352	36.415	45.075	1.873	60.9	-3.93	0.087	14.18	1.376	993.9
1200	4.034	34.564	1.83	3.941	27.445	36.546	45.242	2.029	78.4	-3.61	0.093	12.99	1.317	1191.9
1400	3.283	34.588	2.00	3.181	27.539	36.679	45.412	2.168	96.8	-3.13	0.105	11.55	1.242	1389.7
1600	2.713	34.609	2.16	2.600	27.609	36.780	45.541	2.291	115.5	-2.06	0.085	7.90	1.027	1587.2
1800	2.508	34.619	2.27	2.381	27.635	36.817	45.590	2.404	135.2	-1.28	0.059	5.02	0.818	1784.6
2000	2.207	34.635	2.43	2.067	27.674	36.873	45.661	2.512	155.9	-1.03	0.058	4.33	0.761	1981.8
2200	2.058	34.643	2.55	1.904	27.693	36.901	45.698	2.614	177.9	-1.02	0.051	4.22	0.751	2178.8
2400	1.901	34.653	2.68	1.732	27.715	36.932	45.738	2.712	200.9	-0.66	0.041	2.95	0.628	2375.7
2600	1.775	34.661	2.83	1.590	27.732	36.957	45.770	2.807	225.2	-0.63	0.033	2.74	0.605	2572.3
2800	1.726	34.665	2.92	1.523	27.740	36.969	45.785	2.901	250.8	-0.42	0.022	1.85	0.497	2768.8
3000	1.673	34.668	3.02	1.453	27.748	36.980	45.800	2.993	278.2	-0.47	0.024	2.10	0.529	2965.1
3200	1.603	34.673	3.12	1.365	27.758	36.995	45.820	3.084	307.0	-0.41	0.022	1.89	0.502	3161.2
3400	1.538	34.678	3.28	1.281	27.767	37.010	45.838	3.174	337.3	-0.32	0.017	1.53	0.452	3357.1
3600	1.508	34.681	3.38	1.231	27.773	37.018	45.850	3.263	369.1	-0.28	0.017	1.38	0.430	3552.8
3800	1.474	34.684	3.49	1.177	27.780	37.028	45.862	3.352	402.6	-0.25	0.016	1.28	0.413	3748.4
4000	1.452	34.687	3.60	1.134	27.785	37.036	45.872	3.440	437.8	-0.19	0.013	1.01	0.368	3943.8
4200	1.437	34.690	3.68	1.098	27.790	37.042	45.880	3.529	474.9	-0.29	0.019	1.56	0.457	4139.1
4400	1.416	34.693	3.80	1.054	27.795	37.050	45.890	3.617	513.6	-0.09	0.006	0.51	0.262	4334.1
4600	1.420	34.694	3.85	1.036	27.797	37.053	45.895	3.707	554.5	-0.14	0.010	0.81	0.328	4529.0
4800	1.418	34.696	3.91	1.011	27.801	37.058	45.901	3.796	597.5	-0.12	0.009	0.70	0.305	4723.7
4907	1.421	34.697	3.94	1.001	27.802	37.060	45.903	3.845	621.4	-0.10	0.009	0.70	0.000	4827.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
23	96.5	26.225	26.203	22.743	31.025	38.954	34.696	34.679	4.79	1.71	0.19	0.10	0.00			95	222222255
21	197.1	12.653	12.626	26.049	34.760	43.092	34.459	34.463	2.72	19.95	1.54	20.40	0.00			195	222222255
20	245.9	10.781	10.751	26.485	35.271	43.671	34.570	34.593	0.85	36.47	2.49	34.50	0.00			244	222222255
19	297.4	9.875	9.841	26.671	35.494	43.930	34.605	34.610	0.80	42.51	2.65	37.20	0.00			295	222222255
17	497.4	7.882	7.832	26.963	35.875	44.394	34.572	34.576	0.97	49.06	2.73	38.10	0.00			494	222222255
16	745.9	5.937	5.870	27.201	36.206	44.811	34.534	34.528	1.36	71.12	2.87	40.10	0.00	0.013	-0.004	740	222222222
15	998.2	4.603	4.523	27.374	36.445	45.113	34.552	34.551	1.61	94.09	2.94	41.30	0.00	0.020	0.020	990	222222222
14	1248.2	3.594	3.501	27.502	36.626	45.343	34.580	34.574	1.89	115.25	2.89	40.90	0.00	0.014	0.017	1237	222222222
13	1497.9	2.840	2.734	27.593	36.757	45.512	34.604	34.599	2.06	131.77	2.90	41.00	0.00		-0.005	1484	222222252
12	1998.9	2.227	2.087	27.671	36.869	45.656	34.633	34.632	2.38	145.77	2.82	40.30	0.00	-0.001	0.001	1978	222222222
11	2247.9	2.035	1.877	27.696	36.906	45.704	34.644	34.644	2.52	149.70	2.80	39.90	0.00	0.022	0.007	2223	222222222
10	2502.6	1.876	1.698	27.718	36.938	45.745	34.655	34.655	2.70	152.42	2.75	39.50	0.00	0.013	-0.004	2473	222222222
9	2752.0	1.749	1.551	27.736	36.963	45.778	34.663	34.662	2.88	152.82	2.70	39.10	0.00	0.023	-0.005	2718	222222222
8	3004.6	1.683	1.462	27.746	36.979	45.798	34.668	34.668	3.01	152.42	2.68	38.70	0.00	-0.007	0.001	2966	222222222
7	3253.5	1.588	1.345	27.760	36.999	45.824	34.674	34.673	3.16	152.42	2.63	38.20	0.00	-0.006	-0.005	3210	222222222
6	3503.7	1.528	1.261	27.770	37.014	45.843	34.680	34.680	3.34	150.40	2.59	37.70	0.00	0.000	0.002	3455	222222252
5	3753.5	1.484	1.192	27.778	37.025	45.859	34.683	34.682	3.51	146.78	2.53	37.00	0.00	0.009	-0.005	3699	222222222
4	4004.1	1.447	1.129	27.785	37.036	45.872	34.687	34.687	3.68	143.05	2.49	36.60	0.00	0.010	-0.005	3944	222222222
3	4405.5	1.417	1.056	27.794	37.049	45.889	34.692	34.693	3.88	138.42	2.45	35.90	0.00	0.020	-0.005	4335	222222222
2	4909.1	1.421	1.000	27.801	37.059	45.902	34.696	34.696		134.79	2.40	35.40	0.00	0.011	-0.005	4825	225222222

CRUISE: MW 893 STA: 68 DATE (D/M/Y): 27- 2-89 TIME: 2337 LAT: 9 29.68 N LONG: 162 30.01 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24057E-04 1/S SOUND SPEED= 1505.4 M/S Depth= 4967 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.448	34.491	4.79	27.448	22.193	30.447	38.349	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.448	34.491	4.79	27.448	22.193	30.447	38.349	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.459	34.505	4.84	27.455	22.202	30.455	38.357	0.113	0.1	-0.07	0.068	1.69	0.475	20.0
30	27.459	34.506	4.85	27.452	22.203	30.457	38.359	0.169	0.3	-0.72	-0.103	3.68	0.700	30.0
40	27.456	34.505	4.75	27.446	22.204	30.458	38.361	0.225	0.5	-0.50	0.013	4.04	0.734	40.0
50	27.456	34.505	4.78	27.445	22.205	30.459	38.361	0.282	0.7	0.21	0.008	-1.44	-0.438	50.0
100	27.376	34.520	4.75	27.353	22.246	30.502	38.406	0.564	2.9	-96.48	11.722	907.31	11.005	100.0
125	22.164	35.004	4.39	22.139	24.183	32.570	40.597	0.685	4.3	-224.43	5.097	1728.32	15.189	125.0
150	19.255	34.839	3.94	19.228	24.841	33.317	41.427	0.771	5.5	-203.74	-15.389	886.09	10.875	149.9
200	12.120	34.400	3.38	12.093	26.106	34.839	43.191	0.889	7.6	-68.28	-2.971	264.76	5.945	199.7
250	10.418	34.596	1.23	10.388	26.570	35.370	43.785	0.977	9.5	-16.75	5.177	165.53	4.700	249.4
300	9.726	34.650	0.68	9.692	26.731	35.560	44.001	1.048	11.5	-9.86	0.129	42.63	2.385	299.2
350	9.341	34.647	0.64	9.302	26.793	35.639	44.095	1.115	13.8	-7.95	-0.294	26.50	1.881	348.9
400	8.948	34.632	0.69	8.904	26.846	35.709	44.182	1.180	16.2	-9.84	-0.434	30.70	2.024	398.6
450	8.503	34.612	0.74	8.456	26.901	35.784	44.276	1.242	18.9	-6.55	-0.283	20.02	1.635	448.2
500	8.137	34.594	0.79	8.085	26.942	35.842	44.350	1.303	21.9	-8.74	-0.429	25.16	1.833	497.9
600	7.251	34.554	0.99	7.192	27.041	35.983	44.529	1.418	28.3	-9.14	-0.241	28.62	1.955	597.2
700	6.399	34.529	1.28	6.334	27.137	36.120	44.704	1.524	35.4	-5.74	-0.189	16.53	1.485	696.4
800	5.858	34.529	1.40	5.787	27.208	36.216	44.826	1.624	43.0	-5.00	0.090	18.61	1.576	795.6
900	5.344	34.536	1.31	5.268	27.276	36.310	44.943	1.717	51.1	-4.79	0.023	16.31	1.476	894.7
1000	4.872	34.540	1.55	4.789	27.335	36.393	45.048	1.805	59.6	-4.77	0.101	17.40	1.524	993.8
1200	3.986	34.563	1.70	3.894	27.450	36.553	45.251	1.963	77.2	-3.49	0.094	12.65	1.299	1191.8
1400	3.407	34.579	1.87	3.303	27.521	36.654	45.381	2.103	95.8	-2.77	0.074	9.92	1.151	1389.6
1600	2.864	34.601	2.04	2.749	27.589	36.752	45.506	2.230	115.2	-2.76	0.122	10.70	1.195	1587.2
1800	2.431	34.621	2.25	2.305	27.643	36.830	45.606	2.344	134.9	-1.46	0.073	5.86	0.885	1784.6
2000	2.189	34.634	2.42	2.050	27.675	36.875	45.664	2.449	155.4	-0.95	0.051	3.95	0.726	1981.8
2200	2.050	34.644	2.56	1.895	27.695	36.903	45.700	2.551	177.1	-0.82	0.053	3.61	0.694	2178.8
2400	1.922	34.652	2.69	1.752	27.712	36.929	45.733	2.649	200.1	-0.60	0.030	2.51	0.579	2375.6
2600	1.804	34.659	2.81	1.619	27.728	36.952	45.763	2.745	224.5	-0.46	0.024	1.98	0.514	2572.2
2800	1.720	34.665	2.93	1.517	27.740	36.969	45.786	2.838	250.3	-0.53	0.028	2.35	0.561	2768.7
3000	1.653	34.669	3.07	1.433	27.750	36.984	45.805	2.930	277.6	-0.43	0.024	1.97	0.513	2965.0
3200	1.593	34.673	3.20	1.355	27.758	36.997	45.822	3.021	306.2	-0.30	0.016	1.39	0.431	3161.1
3400	1.532	34.678	3.30	1.275	27.768	37.010	45.839	3.111	336.5	-0.40	0.022	1.92	0.506	3357.0
3600	1.503	34.681	3.44	1.226	27.773	37.019	45.851	3.200	368.3	-0.23	0.013	1.10	0.382	3552.8
3800	1.482	34.683	3.54	1.185	27.778	37.026	45.860	3.289	401.8	-0.13	0.008	0.65	0.295	3748.4
4000	1.477	34.685	3.61	1.158	27.782	37.031	45.866	3.378	437.4	-0.21	0.013	1.08	0.379	3943.8
4200	1.448	34.688	3.73	1.108	27.788	37.040	45.877	3.468	474.8	-0.23	0.016	1.22	0.403	4139.0
4400	1.419	34.692	3.87	1.058	27.794	37.049	45.889	3.557	513.8	-0.25	0.017	1.38	0.430	4334.1
4600	1.400	34.695	4.01	1.016	27.799	37.056	45.899	3.645	554.4	-0.16	0.010	0.89	0.345	4529.0
4800	1.386	34.698	4.11	0.979	27.804	37.063	45.907	3.734	596.9	-0.13	0.009	0.75	0.315	4723.7
4975	1.390	34.699	4.17	0.962	27.806	37.066	45.911	3.812	635.7	-0.08	0.006	0.75	0.000	4893.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	27.507	27.506	22.187	30.439	38.340	34.507	34.507	4.86	1.31	0.15	-0.01	0.01			1	222222255
23	49.6	27.455	27.444	22.206	30.460	38.362	34.506	34.510	4.84	1.31	0.16	-0.01	0.01			49	222222255
22	71.9	27.445	27.429	22.214	30.469	38.371	34.511	34.509	4.81	1.41	0.19	-0.01	0.01			71	222222255
20	146.0	20.181	20.154	24.675	33.121	41.203	34.938	34.950	3.93	4.40	0.52	4.67	0.03			145	222222255
19	221.1	11.922	11.893	26.139	34.881	43.240	34.394			36.17	2.55	35.80	0.00			219	255222255
18	319.2	9.880	9.843	26.704	35.526	43.961	34.648	34.637	0.73	39.79	2.64	37.10	0.00			317	222222255
16	498.1	8.430	8.378	26.910	35.797	44.292	34.610	34.607	0.79	44.83	2.73	38.30	0.00			494	222222255
15	597.1	7.574	7.515	27.005	35.931	44.464	34.566	34.566	0.93	52.89	2.82	39.20	0.00			592	222222255
14	732.2	6.277	6.210	27.156	36.145	44.735	34.532	34.530	1.27	67.29	2.88	40.40	0.00			726	222222255
13	837.6	5.622	5.549	27.239	36.260	44.880	34.532	34.530	1.30	77.07	2.94	41.40	0.00			831	222222255
12	998.1	4.866	4.784	27.336	36.394	45.050	34.541	34.540	1.55	90.46	2.94	41.40	0.00			990	222222255
11	1199.4	3.899	3.807	27.468	36.575	45.277	34.575	34.563	1.68	109.40	2.99	42.00	0.00			1189	222222255
10	1399.5	3.273	3.171	27.537	36.678	45.411	34.584	34.584	1.94	123.91	2.94	41.60	0.00			1386	222222255
9	1597.4	2.739	2.626	27.604	36.773	45.534	34.606	34.604	2.10	134.99	2.91	41.40	0.00			1582	222222255
8	1800.3	2.397	2.272	27.647	36.835	45.613	34.622	34.620	2.27	143.05	2.90	41.20	0.00			1782	222222255
7	2000.4	2.175	2.036	27.676	36.877	45.667	34.635	34.634	2.44	147.28	2.85	40.60	0.00			1979	222222255
6	2499.6	1.860	1.683	27.721	36.941	45.749	34.656	34.655	2.73	152.72	2.78	39.80	0.00			2470	222222255
5	3005.1	1.641	1.421	27.752	36.986	45.808	34.671	34.668	3.08	152.02	2.70	38.90	0.00			2967	222222255
4	3506.1	1.515	1.248	27.770	37.015	45.845	34.679	34.678	3.38	149.80	2.62	37.90	0.00			3457	222222255
3	4004.3	1.476	1.158	27.782	37.031	45.866	34.685	34.684	3.61	145.47	2.55	37.10	0.00			3944	222222255
2	4505.7	1.407	1.034	27.797	37.053	45.894	34.693	34.690	3.93	137.31	2.49	36.20	0.00			4433	222222255
1	4976.6	1.390	0.962	27.805	37.065	45.910	34.697	34.697	4.16	132.47	2.42	35.40	0.00			4891	222222255

CRUISE: MW 893 STA: 69 DATE (D/M/Y): 28- 2-89 TIME: 0825 LAT: 9 29.46 N LONG: 163 19.99 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24048E-04 1/S SOUND SPEED= 1506.5 M/S Depth= 5172 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.844	34.265	4.54	27.844	21.895	30.142	38.038	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.844	34.265	4.54	27.844	21.895	30.142	38.038	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.866	34.378	4.47	27.861	21.975	30.220	38.115	0.117	0.1	0.12	-0.174	-3.95	-0.726	20.0
30	27.867	34.378	4.46	27.860	21.975	30.220	38.115	0.175	0.3	0.14	-0.072	-2.31	-0.556	30.0
40	27.872	34.378	4.47	27.862	21.974	30.219	38.114	0.234	0.5	-0.41	-0.049	2.23	0.546	40.0
50	27.863	34.377	4.48	27.851	21.976	30.222	38.117	0.292	0.7	-0.48	-0.081	2.24	0.547	50.0
100	26.782	34.541	4.47	26.760	22.451	30.721	38.638	0.583	3.0	-98.67	11.359	924.17	11.109	100.0
125	23.241	34.882	4.27	23.215	23.783	32.142	40.142	0.704	4.3	-149.71	11.509	1222.57	12.777	125.0
150	18.614	34.781	3.83	18.588	24.959	33.456	41.586	0.794	5.6	-175.36	-11.751	894.30	10.928	149.9
200	13.286	34.489	2.93	13.258	25.946	34.633	42.941	0.920	7.8	-74.09	-2.697	313.32	6.468	199.7
250	10.699	34.472	1.99	10.668	26.424	35.214	43.619	1.012	9.9	-31.76	0.123	139.06	4.309	249.5
300	9.632	34.555	1.22	9.598	26.673	35.507	43.953	1.089	12.1	-11.42	1.210	69.03	3.036	299.2
350	9.431	34.640	0.87	9.392	26.773	35.615	44.068	1.159	14.4	-8.03	0.724	45.64	2.469	348.9
400	8.982	34.629	0.82	8.938	26.837	35.699	44.171	1.224	16.9	-9.64	-0.471	29.42	1.982	398.6
450	8.693	34.620	0.81	8.645	26.877	35.752	44.236	1.288	19.7	-7.67	-0.226	25.63	1.850	448.3
500	8.142	34.593	0.87	8.090	26.941	35.841	44.348	1.349	22.6	-8.55	-0.179	29.12	1.972	498.0
600	7.135	34.547	1.07	7.077	27.051	35.998	44.550	1.464	29.0	-7.25	-0.119	23.64	1.777	597.2
700	6.451	34.533	1.20	6.387	27.134	36.113	44.696	1.570	36.1	-6.21	-0.028	21.08	1.678	696.5
800	5.764	34.538	1.19	5.694	27.226	36.239	44.853	1.668	43.6	-6.32	-0.007	21.21	1.683	795.7
900	5.186	34.538	1.38	5.110	27.296	36.338	44.979	1.759	51.5	-5.79	0.121	21.19	1.682	894.8
1000	4.670	34.546	1.45	4.589	27.362	36.430	45.095	1.844	59.7	-5.35	0.065	18.18	1.558	993.9
1200	3.837	34.569	1.67	3.746	27.469	36.580	45.285	1.996	76.7	-3.76	0.110	13.62	1.349	1191.8
1400	3.174	34.589	1.94	3.073	27.550	36.696	45.434	2.130	94.4	-2.80	0.085	10.07	1.159	1389.6
1600	2.756	34.606	2.07	2.643	27.602	36.771	45.530	2.251	113.0	-2.06	0.088	7.89	1.027	1587.2
1800	2.401	34.623	2.25	2.276	27.647	36.835	45.613	2.363	132.4	-1.33	0.066	5.32	0.842	1784.6
2000	2.191	34.635	2.38	2.052	27.675	36.875	45.664	2.469	152.9	-1.04	0.059	4.37	0.764	1981.8
2200	2.052	34.644	2.49	1.898	27.694	36.903	45.700	2.570	174.6	-0.81	0.042	3.39	0.673	2178.8
2400	1.926	34.651	2.61	1.756	27.711	36.928	45.732	2.669	197.7	-0.65	0.041	2.91	0.623	2375.6
2600	1.821	34.659	2.76	1.635	27.727	36.950	45.760	2.765	222.1	-0.61	0.034	2.66	0.596	2572.3
2800	1.720	34.665	2.92	1.517	27.740	36.970	45.786	2.858	247.9	-0.54	0.029	2.41	0.567	2768.7
3000	1.624	34.671	3.07	1.404	27.753	36.989	45.811	2.950	275.0	-0.51	0.027	2.31	0.555	2965.0
3200	1.575	34.674	3.18	1.337	27.760	37.000	45.826	3.040	303.4	-0.23	0.012	1.04	0.374	3161.1
3400	1.555	34.677	3.27	1.298	27.765	37.007	45.835	3.129	333.6	-0.28	0.015	1.32	0.419	3357.0
3600	1.519	34.680	3.39	1.242	27.772	37.016	45.847	3.219	365.5	-0.29	0.017	1.42	0.435	3552.8
3800	1.470	34.684	3.52	1.174	27.780	37.028	45.863	3.308	399.1	-0.39	0.024	1.98	0.514	3748.4
4000	1.430	34.689	3.72	1.113	27.788	37.039	45.877	3.396	434.1	-0.23	0.016	1.21	0.401	3943.8
4200	1.414	34.692	3.86	1.075	27.793	37.046	45.886	3.483	470.7	-0.17	0.012	0.94	0.354	4139.0
4400	1.404	34.694	3.96	1.043	27.796	37.052	45.893	3.571	509.3	-0.16	0.011	0.87	0.342	4334.1
4600	1.394	34.696	4.08	1.011	27.800	37.058	45.901	3.659	549.7	-0.14	0.007	0.74	0.314	4529.0
4800	1.394	34.697	4.16	0.988	27.803	37.062	45.906	3.748	592.2	-0.12	0.007	0.68	0.301	4723.7
5000	1.388	34.700	4.24	0.958	27.807	37.067	45.913	3.837	636.8	-0.17	0.012	1.00	0.366	4918.3
5155	1.387	34.701	4.30	0.938	27.809	37.071	45.917	3.907	672.7	-0.08	0.005	1.00	0.000	5068.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.7	27.876	27.876	21.972	30.217	38.111	34.381	34.385	4.86	1.51	0.14	0.09	0.01	1.668	0.891	2	222222222
23	46.7	27.881	27.870	21.973	30.218	38.112	34.380	34.380	4.70	1.51	0.16	0.09	0.01	1.682	0.918	46	222222222
21	146.7	18.073	18.048	25.111	33.625	41.771	34.804	34.779	3.63	6.75	0.76	8.36	0.04	1.672	0.846	145	222222222
19	248.8	10.778	10.748	26.404	35.191	43.593	34.464	34.461	1.84	29.72	2.08	28.29	0.01		0.285	247	222222252
17	348.8	9.377	9.338	26.785	35.629	44.085	34.644	34.648	0.72	38.08	2.60	36.69	0.01	0.052	0.029	346	222222222
15	497.5	7.903	7.853	26.973	35.883	44.401	34.588	34.585	0.77	49.77	2.81	39.09	0.01	0.034	0.027	494	222222222
14	598.9	6.996	6.939	27.065	36.019	44.577	34.541	34.543	1.17	58.33	2.80	39.29	0.01	0.031	0.025	594	222222222
13	799.2	5.586	5.517	27.246	36.268	44.890	34.536	34.536	1.28	77.07	2.94	41.59	0.01		0.034	793	222222252
12	997.0	4.567	4.487	27.375	36.448	45.118	34.548	34.549	1.51	96.11	2.96	42.09	0.01	-0.009	-0.004	989	222222222
11	1198.0	3.925	3.833	27.457	36.563	45.264	34.565	34.564	1.68	109.30	2.95	41.79	0.01	0.027	0.029	1187	222222222
9	1599.8	2.858	2.743	27.591	36.754	45.509	34.603	34.600	2.07	132.78	2.91	41.19	0.01		0.002	1584	222222252
8	1797.9	2.486	2.360	27.638	36.821	45.595	34.619	34.619	2.23	140.83	2.87	40.99	0.01	0.002	-0.004	1780	222222222
7	2002.2	2.257	2.117	27.667	36.863	45.649	34.631	34.632	2.37	145.67	2.84	40.59	0.01	-0.013	-0.004	1981	222222222
6	2502.1	1.861	1.683	27.722	36.942	45.750	34.658	34.657	2.75	153.12	2.76	39.69	0.01	-0.004	0.002	2473	222222222
5	3001.4	1.613	1.394	27.754	36.990	45.813	34.671	34.673	3.12	153.33	2.67	38.60	0.00		0.002	2963	222222252
4	3504.8	1.521	1.254	27.771	37.015	45.845	34.680	34.680	3.35	150.61	2.58	37.80	0.00	0.008	-0.004	3456	222222222
3	4007.2	1.428	1.110	27.787	37.039	45.877	34.688	34.689	3.72	143.45	2.50	36.70	0.00	0.011	-0.004	3947	222222222
2	4507.1	1.393	1.021	27.799	37.056	45.898	34.695	34.697	4.04	136.10	2.41	35.80	0.00	0.005	0.002	4434	222222222
1	5151.5	1.388	0.939	27.808	37.070	45.916	34.700	34.705	4.26	130.76	2.37	35.10	0.00	-0.005	-0.004	5061	222222222

CRUISE: MW 893 STA: 70 DATE (D/M/Y): 28- 2-89 TIME: 1724 LAT: 9 29.16 N LONG: 164 10.03 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24036E-04 1/S SOUND SPEED= 1506.3 M/S Depth= 5141 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.166	34.334	4.57	28.166	21.842	30.081	37.969	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.166	34.334	4.57	28.166	21.842	30.081	37.969	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.165	34.328	4.48	28.160	21.839	30.078	37.967	0.119	0.1	0.23	0.151	0.87	0.342	20.0
30	28.166	34.328	4.49	28.159	21.839	30.078	37.967	0.179	0.3	-0.02	-0.122	-1.98	-0.515	30.0
40	28.170	34.328	4.45	28.160	21.839	30.078	37.966	0.239	0.5	-0.12	-0.025	0.47	0.251	40.0
50	28.171	34.328	4.48	28.159	21.840	30.079	37.967	0.299	0.8	-0.19	0.772	15.11	1.421	50.0
100	26.110	34.773	4.26	26.087	22.837	31.121	39.052	0.582	2.9	-115.67	2.831	887.17	10.887	100.0
125	21.937	34.824	4.12	21.912	24.110	32.505	40.540	0.695	4.2	-233.26	-4.675	1515.69	14.230	125.0
150	18.284	34.718	3.47	18.258	24.994	33.502	41.643	0.777	5.3	-97.95	-4.359	445.66	7.716	149.9
200	13.542	34.508	2.88	13.514	25.909	34.586	42.885	0.902	7.6	-70.13	-2.382	298.57	6.316	199.7
250	10.311	34.423	2.17	10.282	26.453	35.260	43.681	0.995	9.7	-35.66	1.841	185.02	4.972	249.5
300	9.597	34.560	1.09	9.563	26.683	35.518	43.966	1.069	11.8	-12.61	1.354	75.61	3.178	299.2
350	8.993	34.579	1.10	8.955	26.796	35.658	44.130	1.137	14.0	-7.42	0.501	38.34	2.263	348.9
400	8.623	34.582	1.12	8.580	26.857	35.736	44.223	1.202	16.5	-7.10	-0.055	26.44	1.879	398.6
450	8.350	34.589	1.05	8.303	26.905	35.796	44.294	1.264	19.2	-9.69	-0.278	31.67	2.057	448.3
500	7.727	34.550	1.06	7.676	26.968	35.888	44.413	1.324	22.1	-10.22	-0.772	23.58	1.775	497.9
600	7.019	34.542	1.11	6.962	27.064	36.016	44.573	1.437	28.4	-8.94	-0.117	29.46	1.984	597.2
700	6.075	34.532	1.10	6.012	27.182	36.179	44.779	1.540	35.2	-8.64	-0.031	28.70	1.958	696.5
800	5.350	34.538	1.29	5.282	27.276	36.310	44.942	1.633	42.3	-5.59	0.091	19.96	1.633	795.6
900	4.960	34.545	1.32	4.886	27.328	36.381	45.032	1.719	49.8	-3.32	0.076	12.00	1.266	894.7
1000	4.592	34.550	1.43	4.511	27.374	36.445	45.114	1.801	57.8	-3.44	0.043	11.75	1.253	993.8
1200	3.930	34.567	1.65	3.838	27.458	36.564	45.265	1.954	74.9	-3.42	0.097	12.43	1.288	1191.8
1400	3.355	34.585	1.85	3.251	27.530	36.667	45.396	2.092	93.2	-2.61	0.076	9.40	1.121	1389.6
1600	2.894	34.600	2.04	2.779	27.585	36.747	45.499	2.218	112.5	-2.24	0.089	8.49	1.065	1587.2
1800	2.492	34.617	2.23	2.366	27.635	36.819	45.592	2.334	132.5	-1.42	0.073	5.74	0.876	1784.6
2000	2.233	34.632	2.39	2.093	27.670	36.868	45.655	2.442	153.4	-1.26	0.059	5.07	0.823	1981.8
2200	2.061	34.642	2.53	1.907	27.693	36.901	45.697	2.545	175.4	-0.85	0.051	3.69	0.702	2178.8
2400	1.946	34.650	2.66	1.775	27.709	36.924	45.727	2.643	198.6	-0.62	0.035	2.66	0.596	2375.6
2600	1.838	34.657	2.79	1.652	27.724	36.946	45.755	2.740	223.1	-0.54	0.026	2.31	0.556	2572.2
2800	1.750	34.663	2.90	1.547	27.736	36.964	45.779	2.834	249.2	-0.53	0.027	2.34	0.559	2768.7
3000	1.667	34.667	3.01	1.447	27.747	36.980	45.801	2.927	276.7	-0.52	0.027	2.36	0.561	2965.0
3200	1.604	34.672	3.13	1.365	27.757	36.994	45.819	3.019	305.6	-0.45	0.023	2.05	0.523	3161.1
3400	1.533	34.677	3.29	1.276	27.767	37.009	45.838	3.109	335.9	-0.36	0.019	1.71	0.478	3357.0
3600	1.491	34.680	3.44	1.215	27.774	37.020	45.852	3.198	367.7	-0.30	0.017	1.45	0.441	3552.8
3800	1.459	34.683	3.57	1.163	27.780	37.029	45.864	3.286	401.0	-0.28	0.018	1.45	0.439	3748.4
4000	1.430	34.687	3.71	1.113	27.786	37.038	45.875	3.374	436.0	-0.19	0.016	1.06	0.377	3943.8
4200	1.411	34.690	3.84	1.073	27.792	37.045	45.885	3.462	472.8	-0.27	0.019	1.47	0.443	4139.0
4400	1.380	34.694	4.01	1.020	27.798	37.055	45.898	3.549	511.1	-0.14	0.009	0.78	0.323	4334.1
4600	1.382	34.696	4.09	0.999	27.801	37.059	45.902	3.637	551.2	-0.09	0.006	0.49	0.255	4528.9
4800	1.385	34.697	4.14	0.978	27.803	37.063	45.907	3.725	593.6	-0.15	0.010	0.84	0.334	4723.7
5000	1.378	34.699	4.22	0.948	27.807	37.068	45.914	3.814	638.1	-0.12	0.010	0.75	0.317	4918.2
5143	1.386	34.700	4.25	0.938	27.809	37.070	45.917	3.878	671.2	-0.06	0.006	0.75	0.000	5057.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	28.132	28.133	21.847	30.087	37.976	34.326	34.327	4.70	1.71	0.13	0.10	0.00			1	222222255
22	97.6	26.100	26.078	22.836	31.121	39.052	34.768	34.772	4.48	2.20	0.27	0.90	0.20			97	222222255
20	196.0	13.309	13.281	25.938	34.624	42.931	34.485	34.482	2.96	17.20	1.40	18.50	0.00			194	222222255
18	297.9	9.678	9.644	26.672	35.504	43.948	34.564	34.567	1.04	37.70	2.47	34.30	0.00			296	222222255
16	394.9	8.901	8.858	26.830	35.696	44.171	34.603	34.601	0.91	41.70	2.61	36.60	0.00			392	222222255
14	596.6	7.016	6.959	27.050	36.003	44.560	34.525	34.524		58.70	2.75	38.50	0.00			592	225222255
13	748.1	5.938	5.871	27.198	36.203	44.809	34.531	34.528	1.13	73.00	2.96	41.40	0.00			742	222222255
12	896.7	5.100	5.025	27.309	36.355	45.000	34.542	34.541	1.38	85.20	2.98	42.00	0.00			889	222222255
11	1096.4	4.266	4.180	27.415	36.504	45.188	34.557	34.556	1.50	101.50	2.99	42.40	0.00			1087	222222255
9	1495.9	3.112	3.003	27.558	36.708	45.449	34.591	34.591	1.98	126.80	2.92	41.30	0.00			1482	222222255
8	1799.4	2.560	2.432	27.629	36.809	45.579	34.617	34.613	2.19	139.40	2.89	41.20	0.00	-0.008	-0.004	1781	222222222
7	2199.3	2.073	1.918	27.692	36.900	45.695	34.643	34.640	2.50	148.10	2.80	40.11	-0.01			2175	222222255
6	2701.1	1.802	1.607	27.729	36.954	45.765	34.660	34.659	2.84	153.20	2.79	39.41	-0.01	-0.003	-0.004	2668	222222222
5	3202.4	1.584	1.346	27.759	36.998	45.823	34.673	34.672	3.16	154.10	2.67	38.41	-0.01			3160	222222255
4	3504.8	1.510	1.243	27.770	37.015	45.846	34.679	34.678	3.38	151.00	2.59	37.81	-0.01			3456	222222255
3	4202.5	1.405	1.067	27.791	37.046	45.885	34.689	34.691	3.85	140.00	2.48	36.21	-0.01			4137	222222255
2	4704.6	1.385	0.990	27.801	37.060	45.904	34.695			134.10	2.45	35.70	0.00			4627	255222255
1	5146.4	1.386	0.938	27.808	37.069	45.916	34.699	34.700	4.23	130.80	2.39	34.90	0.00			5056	222222255

CRUISE: MW 893 STA: 71 DATE (D/M/Y): 1- 3-89 TIME: 0222 LAT: 9 29.54 N LONG: 165 0.07 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1506.5 M/S Depth= 5122 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.235	34.502	3.61	28.235	21.945	30.181	38.066	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.235	34.502	3.61	28.235	21.945	30.181	38.066	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.232	34.530	5.03	28.228	21.969	30.204	38.089	0.117	0.1	-0.49	-0.088	2.22	0.544	20.0
30	28.215	34.529	5.01	28.208	21.975	30.210	38.096	0.175	0.3	-1.27	0.024	10.23	1.169	30.0
40	28.210	34.529	5.06	28.201	21.977	30.213	38.098	0.234	0.5	-0.47	-0.097	1.97	0.512	40.0
50	28.209	34.528	5.02	28.198	21.978	30.214	38.099	0.293	0.7	0.06	0.216	3.32	0.665	50.0
100	27.445	34.798	4.65	27.422	22.432	30.684	38.584	0.582	3.0	-79.32	5.729	694.88	9.632	100.0
125	24.729	34.820	4.66	24.702	23.297	31.616	39.580	0.708	4.4	-97.80	0.791	732.46	9.889	125.0
150	21.629	34.804	4.18	21.600	24.181	32.586	40.630	0.814	5.9	-148.29	-0.109	967.46	11.365	149.9
200	13.500	34.520	3.00	13.472	25.926	34.604	42.905	0.957	8.4	-92.61	-3.203	402.60	7.332	199.8
250	11.107	34.564	1.39	11.076	26.423	35.195	43.583	1.050	10.5	-30.53	2.198	172.91	4.805	249.5
300	9.855	34.636	0.74	9.821	26.698	35.522	43.958	1.124	12.6	-14.41	0.214	63.03	2.901	299.2
350	9.239	34.637	0.69	9.200	26.802	35.652	44.113	1.192	14.8	-8.79	-0.270	30.23	2.009	348.9
400	8.925	34.620	0.75	8.882	26.839	35.704	44.178	1.257	17.3	-5.01	-0.261	14.95	1.413	398.6
450	8.776	34.621	0.74	8.727	26.865	35.736	44.216	1.321	20.1	-6.47	-0.059	24.21	1.798	448.3
500	8.222	34.598	0.70	8.170	26.933	35.829	44.333	1.383	23.1	-12.26	-0.573	36.24	2.200	498.0
600	7.297	34.554	0.94	7.238	27.035	35.974	44.519	1.499	29.6	-9.01	-0.240	28.17	1.939	597.3
700	6.325	34.535	1.00	6.261	27.152	36.137	44.725	1.606	36.7	-9.02	-0.069	29.60	1.988	696.5
800	5.478	34.535	1.18	5.410	27.259	36.286	44.912	1.702	44.0	-6.02	0.113	21.94	1.711	795.7
900	4.935	34.543	1.39	4.861	27.329	36.384	45.036	1.789	51.6	-5.24	0.071	18.12	1.555	894.8
1000	4.403	34.555	1.48	4.324	27.398	36.479	45.156	1.870	59.4	-4.51	0.098	16.16	1.469	993.9
1200	3.875	34.569	1.63	3.784	27.466	36.575	45.278	2.019	76.1	-2.59	0.080	9.45	1.123	1191.9
1400	3.332	34.588	1.77	3.228	27.535	36.672	45.403	2.156	94.3	-2.37	0.075	8.68	1.077	1389.6
1600	2.945	34.601	1.99	2.830	27.582	36.741	45.491	2.283	113.6	-2.20	0.073	8.14	1.043	1587.2
1800	2.549	34.616	2.19	2.421	27.630	36.810	45.581	2.400	133.8	-1.82	0.087	7.26	0.984	1784.6
2000	2.266	34.630	2.36	2.126	27.665	36.862	45.647	2.508	154.9	-1.20	0.061	4.93	0.811	1981.8
2200	2.092	34.641	2.50	1.937	27.689	36.896	45.691	2.611	177.0	-0.94	0.054	4.02	0.732	2178.8
2400	1.953	34.650	2.64	1.783	27.708	36.923	45.726	2.711	200.2	-0.60	0.032	2.56	0.584	2375.7
2600	1.860	34.656	2.75	1.673	27.721	36.942	45.751	2.808	225.0	-0.50	0.026	2.16	0.537	2572.3
2800	1.760	34.662	2.88	1.557	27.735	36.962	45.777	2.903	251.1	-0.51	0.025	2.24	0.547	2768.8
3000	1.688	34.667	3.01	1.467	27.745	36.977	45.796	2.996	278.8	-0.54	0.026	2.41	0.567	2965.1
3200	1.637	34.671	3.11	1.398	27.753	36.989	45.812	3.088	307.9	-0.49	0.025	2.25	0.548	3161.2
3400	1.544	34.677	3.28	1.287	27.766	37.008	45.837	3.179	338.4	-0.36	0.019	1.70	0.477	3357.1
3600	1.505	34.680	3.40	1.229	27.773	37.018	45.849	3.268	370.2	-0.23	0.012	1.12	0.386	3552.8
3800	1.477	34.682	3.49	1.181	27.778	37.026	45.860	3.357	403.8	-0.24	0.014	1.20	0.401	3748.4
4000	1.450	34.686	3.63	1.132	27.784	37.034	45.871	3.446	439.2	-0.33	0.025	1.79	0.488	3943.8
4200	1.429	34.689	3.80	1.090	27.790	37.043	45.881	3.534	476.2	-0.25	0.015	1.31	0.418	4139.1
4400	1.384	34.694	4.00	1.024	27.798	37.055	45.897	3.622	514.6	-0.28	0.022	1.58	0.459	4334.1
4600	1.367	34.697	4.13	0.985	27.803	37.062	45.906	3.709	554.6	-0.18	0.011	0.97	0.360	4529.0
4800	1.369	34.698	4.22	0.962	27.805	37.066	45.911	3.797	596.6	-0.06	0.004	0.33	0.209	4723.7
5000	1.383	34.699	4.25	0.952	27.807	37.067	45.913	3.885	640.9	-0.07	0.005	0.41	0.233	4918.3
5123	1.389	34.700	4.28	0.943	27.808	37.069	45.916	3.940	669.4	-0.07	0.005	0.41	0.000	5037.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	22.1	28.226	28.220	21.979	30.214	38.099	34.540	34.538	5.10	1.71	0.14	9.00		1.625	0.876	21	222222522
23	48.2	28.214	28.202	21.982	30.218	38.103	34.537	34.537	4.95	1.71	0.16	9.00		1.685	0.874	47	222222522
22	72.4	28.211	28.193	21.987	30.223	38.108	34.539	34.537	5.09	1.81	0.16	9.00		1.713	0.865	71	222222522
20	122.6	24.018	23.993	23.545	31.883	39.863	34.868	34.823	4.57	2.22	0.30	10.30		1.682	0.907	121	222222522
18	172.8	17.041	17.012	25.268	33.817	41.997	34.681	34.680	3.37	9.37	0.96	20.30				171	222222555
16	246.0	11.186	11.155	26.398	35.167	43.552	34.550	34.551	1.33	29.21	2.23	39.00				244	222222555
14	396.6	9.103	9.059	26.819	35.675	44.142	34.629	34.630	0.77	40.40	2.65	46.00				393	222222555
13	498.6	8.085	8.034	26.945	35.848	44.358	34.588	34.588	0.72	48.25	2.82	47.60			0.055	495	222222552
12	747.1	5.871	5.805	27.210	36.218	44.827	34.535	34.532	1.03	73.54	3.04	50.90		-0.007	0.008	741	222222522
11	997.9	4.489	4.410	27.387	36.464	45.137	34.553	34.552	1.43	96.91	3.05	51.40		0.025	0.008	989	222222522
10	1398.0	3.326	3.223	27.536	36.674	45.405	34.589	34.588	1.80	121.90	3.01	51.20		0.016	-0.004	1385	222222522
9	1797.2	2.500	2.374	27.636	36.818	45.591	34.618		2.22	140.00	2.91	49.90			-0.004	1779	252222552
8	2198.5	2.071	1.916	27.692	36.900	45.696	34.643	34.642	2.51	148.79	2.83	49.20		-0.006	0.002	2174	222222522
7	2600.4	1.839	1.653	27.724	36.946	45.756	34.658	34.660	2.76	152.62	2.76	48.40		-0.005	-0.004	2569	222222522
6	3001.8	1.677	1.456	27.747	36.980	45.799	34.668	34.672	3.01	152.62	2.71	47.70		-0.002		2963	222222525
5	3403.9	1.530	1.273	27.768	37.010	45.840	34.677	34.679	3.32	151.61	2.62	46.90			-0.004	3357	222222552
4	3805.7	1.470	1.173	27.779	37.027	45.862	34.683		3.48	149.10	2.57	46.20		0.019	0.002	3750	252222522
3	4305.8	1.402	1.052	27.794	37.049	45.890	34.691	34.695	3.89	138.72	2.47	44.80		0.012	-0.004	4238	222222522
2	4705.1	1.364	0.970	27.803	37.063	45.908	34.696	34.700	4.16	132.17	2.43	44.20		0.002	0.008	4627	222222522
1	5125.5	1.389	0.943	27.807	37.069	45.915	34.699	34.703	4.27	130.76	2.40	43.90		0.001	0.020	5036	222222522

CRUISE: MW 893 STA: 72 DATE (D/M/Y): 1- 3-89 TIME: 1026 LAT: 9 33.24 N LONG: 165 44.90 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24206E-04 1/S SOUND SPEED= 1503.4 M/S Depth= 4645 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.877	34.410	4.73	27.877	21.993	30.238	38.132	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.877	34.410	4.73	27.877	21.993	30.238	38.132	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.901	34.398	4.67	27.896	21.978	30.222	38.116	0.117	0.1	0.05	0.146	2.19	0.539	20.0
30	27.903	34.399	4.65	27.896	21.979	30.223	38.116	0.175	0.3	-0.13	-0.052	0.06	0.092	30.0
40	27.903	34.398	4.65	27.894	21.979	30.223	38.117	0.234	0.5	-0.26	-0.134	-0.36	-0.219	40.0
50	27.900	34.396	4.64	27.888	21.979	30.224	38.117	0.292	0.7	-0.40	-0.154	0.31	0.203	50.0
100	27.875	34.391	4.55	27.852	21.987	30.233	38.127	0.585	3.0	-92.79	7.982	826.70	10.472	100.0
125	23.123	34.796	4.29	23.097	23.753	32.115	40.119	0.715	4.5	-173.36	11.809	1511.39	14.160	125.0
150	19.787	34.860	3.87	19.760	24.719	33.178	41.273	0.808	5.8	-131.23	-4.302	764.89	10.073	149.9
200	13.186	34.490	2.86	13.159	25.966	34.657	42.969	0.939	8.1	-85.54	-2.768	369.47	7.001	199.7
250	10.761	34.557	1.46	10.731	26.479	35.266	43.667	1.029	10.1	-24.57	2.284	148.35	4.436	249.5
300	10.019	34.643	0.80	9.985	26.676	35.492	43.922	1.104	12.2	-7.62	0.634	43.46	2.401	299.2
350	9.484	34.649	0.61	9.445	26.771	35.610	44.061	1.173	14.5	-6.82	0.123	30.17	2.000	348.9
400	9.183	34.642	0.55	9.138	26.816	35.669	44.132	1.239	17.0	-9.58	-0.481	29.61	1.982	398.6
450	8.738	34.623	0.58	8.690	26.872	35.745	44.227	1.303	19.8	-8.62	-0.377	26.99	1.892	448.3
500	8.310	34.603	0.64	8.257	26.924	35.816	44.316	1.365	22.8	-10.03	-0.514	29.05	1.963	498.0
600	7.347	34.554	0.92	7.288	27.027	35.964	44.507	1.481	29.3	-7.15	-0.265	21.12	1.674	597.3
700	6.589	34.539	0.90	6.524	27.121	36.094	44.670	1.590	36.5	-8.96	-0.097	29.49	1.978	696.5
800	5.707	34.537	0.93	5.637	27.232	36.248	44.865	1.688	44.1	-6.76	0.032	23.34	1.760	795.7
900	4.997	34.537	1.36	4.923	27.317	36.369	45.018	1.778	51.8	-5.87	0.123	21.53	1.690	894.8
1000	4.578	34.553	1.37	4.498	27.378	36.450	45.119	1.861	59.8	-4.42	0.089	15.77	1.446	993.9
1200	3.779	34.572	1.63	3.688	27.478	36.591	45.299	2.011	76.6	-3.33	0.095	12.07	1.265	1191.9
1400	3.205	34.591	1.83	3.103	27.549	36.693	45.430	2.144	94.3	-2.64	0.086	9.67	1.132	1389.6
1600	2.840	34.604	2.03	2.725	27.594	36.758	45.513	2.267	113.0	-1.51	0.066	5.82	0.879	1587.2
1800	2.509	34.618	2.21	2.382	27.634	36.817	45.589	2.382	132.9	-1.27	0.055	4.99	0.814	1784.6
2000	2.274	34.631	2.36	2.133	27.665	36.861	45.646	2.490	154.0	-1.10	0.050	4.41	0.765	1981.8
2200	2.084	34.641	2.49	1.929	27.690	36.897	45.692	2.594	176.1	-0.91	0.056	3.98	0.727	2178.8
2400	1.957	34.650	2.63	1.787	27.708	36.923	45.725	2.693	199.5	-0.67	0.038	2.93	0.623	2375.6
2600	1.844	34.657	2.76	1.657	27.723	36.945	45.754	2.790	224.2	-0.58	0.029	2.51	0.577	2572.3
2800	1.750	34.663	2.89	1.547	27.736	36.964	45.779	2.885	250.3	-0.50	0.027	2.25	0.547	2768.7
3000	1.679	34.668	3.03	1.458	27.747	36.979	45.799	2.978	277.9	-0.40	0.020	1.80	0.488	2965.0
3200	1.620	34.672	3.13	1.381	27.755	36.992	45.816	3.070	306.9	-0.45	0.024	2.09	0.527	3161.1
3400	1.567	34.676	3.25	1.310	27.764	37.004	45.832	3.161	337.5	-0.33	0.014	1.50	0.447	3357.1
3600	1.512	34.680	3.38	1.235	27.772	37.017	45.848	3.251	369.5	-0.43	0.024	2.10	0.528	3552.8
3800	1.468	34.684	3.54	1.171	27.780	37.028	45.863	3.339	403.0	-0.32	0.020	1.62	0.463	3748.4
4000	1.437	34.687	3.68	1.120	27.786	37.037	45.874	3.427	438.0	-0.15	0.009	0.78	0.322	3943.8
4200	1.402	34.691	3.83	1.064	27.793	37.047	45.887	3.515	474.8	-0.31	0.024	1.75	0.482	4139.0
4400	1.389	34.694	3.99	1.029	27.798	37.054	45.896	3.603	513.1	-0.14	0.010	0.80	0.326	4334.1
4600	1.388	34.696	4.06	1.005	27.800	37.058	45.901	3.690	553.4	-0.12	0.010	0.80	0.000	4529.0
4649	1.390	34.696	4.07	1.001	27.801	37.059	45.902	3.712	563.6	-0.11	0.009	0.80	0.000	4576.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	27.847	27.848	21.987	30.232	38.127	34.388	34.387	4.98	1.51	0.12	0.04	-0.04			1	222222255
23	47.4	27.862	27.851	21.985	30.231	38.126	34.389	34.387	4.93	1.51	0.10	0.04	-0.04			47	222222255
22	72.2	27.864	27.847	21.987	30.232	38.127	34.388	34.387	4.85	1.51	0.12	0.04	-0.04			71	222222255
21	96.5	26.712	26.691	22.445	30.718	38.637	34.505	34.471	4.91	1.71	0.17	0.05	-0.05			95	222222255
20	120.4	22.077	22.054	24.093	32.484	40.515	34.853	34.843	4.25	3.43	0.40	2.57	0.13			119	222222255
19	145.9	19.135	19.109	24.875	33.355	41.469	34.844	34.848	3.81	5.64	0.60	6.35	0.05			145	222222255
18	172.0	15.272	15.245	25.594	34.207	42.445	34.579		3.48	10.98	1.00	12.55	-0.05			170	252222255
17	197.0	12.713	12.686	26.041	34.750	43.080	34.465		2.67	20.25	1.57	20.85	-0.05			195	252222255
16	246.3	10.695	10.665	26.507	35.296	43.699	34.578	34.560	1.08	32.34	2.33	31.95	-0.05			244	222222255
15	296.4	10.039	10.005	26.670	35.486	43.914	34.639	34.636	0.66	36.17	2.54	35.45	-0.05			294	222222255
14	396.6	9.216	9.172	26.812	35.663	44.125	34.644	34.641	0.63	40.09	2.64	37.25	-0.05			393	222222255
13	496.7	8.345	8.293	26.918	35.808	44.307	34.603	34.601	0.72	46.54	2.78	38.35	-0.05			493	222222255
12	747.2	6.035	5.968	27.185	36.185	44.786	34.529	34.531	1.13	71.73	2.97	41.25	-0.05			741	222222255
11	978.8	4.768	4.688	27.351	36.414	45.074	34.546	34.547	1.31	91.98	3.06	42.66	-0.06			970	222222255
10	1399.6	3.300	3.197	27.537	36.676	45.408	34.587	34.586	1.88	122.60	2.97	50.70				1387	222222555
9	1799.5	2.525	2.398	27.635	36.816	45.588	34.620	34.616	2.23	139.22	2.89	50.00				1781	222222555
8	2201.5	2.048	1.894	27.695	36.904	45.701	34.644	34.644	2.55	149.50	2.82	49.20				2177	222222555
7	2601.8	1.819	1.633	27.727	36.950	45.761	34.660	34.659	2.77	152.12	2.76	48.50				2571	222222555
6	3001.5	1.666	1.446	27.749	36.982	45.802	34.669	34.668	3.05	152.82	2.69	47.80		-0.004	-0.004	2963	222222522
5	3404.8	1.566	1.308	27.764	37.004	45.832	34.675	34.676	3.22	152.82	2.63	47.20			-0.004	3358	222222552
4	3806.2	1.467	1.170	27.781	37.029	45.864	34.685	34.686	3.53	148.29	2.58	37.10	0.00			3751	222222255
3	4105.9	1.430	1.102	27.788	37.041	45.879	34.688	34.688	3.71	145.07	2.52	36.60	0.00			4043	222222255
2	4505.2	1.390	1.018	27.799	37.056	45.898	34.694	34.694	4.00	136.91	2.45	35.50	0.00			4432	222222255
1	4651.1	1.390	1.001	27.801	37.059	45.902	34.695	34.697	4.08	136.20	2.44	35.51	-0.01	-0.006	0.002	4574	222222222

CRUISE: MW 893 STA: 73 DATE (D/M/Y): 1- 3-89 TIME: 1740 LAT: 9 36.76 N LONG: 166 24.98 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24354E-04 1/S SOUND SPEED= 1503.1 M/S Depth= 4594 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.820	34.433	4.00	27.820	22.029	30.275	38.170	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.820	34.433	4.00	27.819	22.029	30.275	38.170	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.826	34.425	4.62	27.822	22.022	30.268	38.163	0.116	0.1	0.91	0.111	-5.07	-0.817	20.0
30	27.831	34.425	4.60	27.824	22.022	30.268	38.163	0.174	0.3	-0.12	0.035	1.57	0.455	30.0
40	27.831	34.426	4.65	27.822	22.023	30.269	38.164	0.232	0.5	-0.17	0.025	1.79	0.485	40.0
50	27.833	34.427	4.62	27.821	22.024	30.270	38.165	0.290	0.7	0.10	0.019	-0.45	-0.244	50.0
100	27.804	34.426	4.58	27.781	22.037	30.284	38.180	0.581	3.0	-30.25	7.259	360.95	6.899	100.0
125	25.943	34.807	4.18	25.915	22.916	31.204	39.139	0.720	4.6	-139.37	6.690	1134.89	12.233	125.0
150	20.791	34.875	4.10	20.762	24.465	32.893	40.960	0.828	6.1	-148.97	6.148	1137.38	12.246	149.9
200	14.127	34.523	3.27	14.098	25.798	34.453	42.731	0.970	8.6	-107.44	-6.039	447.43	7.681	199.8
250	11.180	34.493	2.03	11.149	26.354	35.124	43.510	1.069	10.8	-40.78	2.751	234.46	5.560	249.5
300	10.228	34.614	0.94	10.192	26.618	35.426	43.848	1.148	13.0	-14.73	0.786	77.09	3.188	299.3
350	9.663	34.647	0.73	9.623	26.740	35.572	44.016	1.218	15.4	-5.03	0.528	30.63	2.010	349.0
400	9.181	34.637	0.71	9.137	26.812	35.665	44.129	1.285	17.9	-11.23	-0.520	35.88	2.175	398.7
450	8.749	34.621	0.76	8.700	26.869	35.742	44.223	1.350	20.7	-9.82	-0.369	32.10	2.057	448.4
500	8.212	34.597	0.76	8.160	26.934	35.831	44.335	1.412	23.7	-11.18	-0.587	32.20	2.061	498.0
600	7.313	34.540	1.16	7.254	27.021	35.960	44.504	1.528	30.3	-7.22	-0.063	25.15	1.821	597.3
700	6.416	34.530	1.01	6.352	27.136	36.118	44.702	1.636	37.4	-9.69	-0.259	29.35	1.967	696.5
800	5.705	34.531	1.21	5.635	27.228	36.244	44.861	1.734	44.9	-6.51	0.058	23.10	1.745	795.7
900	5.034	34.540	1.32	4.959	27.316	36.365	45.013	1.824	52.7	-5.51	0.123	20.39	1.640	894.8
1000	4.609	34.551	1.39	4.528	27.373	36.444	45.112	1.907	60.7	-4.09	0.077	14.52	1.384	993.9
1200	3.946	34.568	1.62	3.853	27.458	36.563	45.263	2.059	77.7	-3.25	0.070	11.42	1.227	1191.9
1400	3.258	34.585	1.85	3.155	27.540	36.681	45.415	2.196	95.8	-2.72	0.090	10.10	1.154	1389.7
1600	2.798	34.603	2.00	2.684	27.596	36.763	45.520	2.319	114.7	-2.07	0.081	7.91	1.021	1587.3
1800	2.439	34.619	2.16	2.313	27.641	36.827	45.603	2.433	134.4	-1.47	0.074	5.96	0.886	1784.6
2000	2.218	34.632	2.32	2.079	27.671	36.870	45.657	2.540	155.1	-1.01	0.062	4.37	0.759	1981.8
2200	2.045	34.643	2.45	1.891	27.694	36.903	45.701	2.641	176.9	-0.78	0.052	3.53	0.682	2178.9
2400	1.940	34.651	2.60	1.769	27.710	36.926	45.729	2.740	200.0	-0.56	0.029	2.43	0.566	2375.7
2600	1.836	34.657	2.71	1.650	27.724	36.946	45.756	2.837	224.7	-0.63	0.035	2.83	0.610	2572.3
2800	1.749	34.663	2.85	1.546	27.736	36.964	45.779	2.931	250.7	-0.45	0.024	2.03	0.517	2768.8
3000	1.683	34.667	2.97	1.462	27.746	36.978	45.798	3.024	278.2	-0.41	0.021	1.87	0.496	2965.1
3200	1.623	34.671	3.09	1.384	27.755	36.992	45.815	3.116	307.3	-0.42	0.021	1.96	0.508	3161.2
3400	1.560	34.676	3.23	1.303	27.764	37.005	45.833	3.207	337.9	-0.45	0.025	2.18	0.537	3357.1
3600	1.494	34.681	3.41	1.217	27.774	37.020	45.852	3.297	369.8	-0.47	0.029	2.39	0.561	3552.9
3800	1.450	34.685	3.60	1.154	27.782	37.031	45.867	3.385	403.0	-0.12	0.010	0.68	0.299	3748.4
4000	1.432	34.688	3.73	1.115	27.787	37.038	45.876	3.473	438.0	-0.23	0.016	1.25	0.406	3943.8
4200	1.409	34.690	3.84	1.070	27.791	37.045	45.885	3.560	474.8	-0.24	0.015	1.30	0.415	4139.1
4400	1.389	34.694	4.01	1.029	27.797	37.054	45.896	3.648	513.2	-0.27	0.022	1.57	0.454	4334.1
4595	1.351	34.698	4.22	0.970	27.805	37.064	45.909	3.733	552.1	-0.26	0.021	1.57	0.000	4524.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	3.8	27.781	27.781	22.039	30.286	38.181	34.429	34.430	4.78	1.71	0.14	9.10		1.643	0.871	3	222222522
23	47.0	27.791	27.780	22.038	30.285	38.181	34.427	34.428	4.74	1.71	0.15	9.10		1.658	0.877	46	222222522
22	96.9	27.688	27.665	22.090	30.339	38.237	34.447	34.431	4.89	1.71	0.19	9.20		1.691	0.874	96	222222522
21	146.9	19.702	19.676	24.788	33.249	41.346	34.922	34.927	3.93	4.23	0.54	13.90		1.791	0.916	146	222222522
20	199.4	12.848	12.821	26.003	34.708	43.032	34.451	34.455	2.91	18.13	1.47	28.20		1.226	0.619	198	222222522
19	249.0	10.901	10.870	26.434	35.215	43.611	34.531	34.525	1.35	29.92	2.21	39.10		0.475	0.212	247	222222522
18	296.7	9.940	9.906	26.675	35.495	43.928	34.625	34.623	0.73	35.76	2.53	44.50		0.102	0.050	294	222222522
17	346.7	9.504	9.465	26.770	35.609	44.059	34.652	34.650	0.63	37.58	2.60	45.70		0.058	0.028	344	222222522
16	396.2	9.037	8.994	26.830	35.689	44.158	34.630	34.629	0.74	40.50	2.64	46.20		0.058		393	222222525
15	497.4	8.128	8.077	26.941	35.842	44.350	34.591	34.594	0.76	47.15	2.79	47.50		0.031	0.026	494	222222522
14	598.2	7.256	7.198	27.040	35.982	44.528	34.554	34.553	0.94	55.81	2.85	48.50		0.025	0.014	593	222222522
13	696.7	6.273	6.210	27.159	36.147	44.737	34.536	34.526	1.17	67.29	2.91	49.30				691	222222555
12	797.9	5.644	5.574	27.236	36.255	44.874	34.532	34.530	1.24	76.66	2.96	50.50		-0.005	0.020	791	222222522
11	996.8	4.700	4.619	27.362	36.428	45.091	34.550	34.549	1.35	92.98	3.06	51.50		0.007	0.008	988	222222522
10	1251.0	3.772	3.677	27.476	36.590	45.299	34.568	34.570	1.73	112.53	2.98	50.90		0.003	0.015	1240	222222522
9	1494.5	3.016	2.908	27.570	36.724	45.470	34.594	34.591	2.00	128.85	2.94	50.40			-0.004	1480	222222552
8	1748.5	2.471	2.349	27.637	36.821	45.595	34.617	34.616	2.21	141.54	2.90	49.90		-0.005	-0.004	1731	222222522
7	1999.2	2.209	2.070	27.673	36.872	45.660	34.634	34.632	2.38	146.48	2.85	49.50		-0.012	-0.004	1978	222222522
6	2297.1	1.972	1.811	27.706	36.919	45.720	34.650	34.649	2.60	150.61	2.81	49.00		-0.002	-0.003	2271	222222522
5	2702.5	1.766	1.572	27.733	36.960	45.773	34.662	34.662	2.84	153.23	2.74	48.40			-0.004	2670	222222552
4	3103.0	1.631	1.402	27.753	36.989	45.811	34.671	34.670	3.08	153.43	2.68	47.60		0.007	-0.004	3062	222222522
3	3604.3	1.470	1.194	27.777	37.024	45.857	34.682	34.681	3.45	150.00	2.62	46.50			0.002	3553	222222552
2	4105.4	1.421	1.093	27.789	37.042	45.880	34.688	34.688	3.74	143.25	2.52	45.50		0.000	0.002	4043	222222552
1	4596.0	1.351	0.970	27.804	37.064	45.909	34.698	34.697	4.16	132.98	2.42	44.30		-0.006	0.013	4521	222222522

CRUISE: MW 893 STA: 74 DATE (D/M/Y): 2- 3-89 TIME: 0154 LAT: 9 35.49 N LONG: 167 14.71 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24301E-04 1/S SOUND SPEED= 1501.2 M/S Depth= 4303 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3.	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.911	34.427	4.83	27.911	21.995	30.238	38.131	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.911	34.427	4.83	27.911	21.995	30.238	38.131	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.839	34.419	4.76	27.834	22.014	30.260	38.154	0.116	0.1	-1.72	0.278	18.26	1.553	20.0
30	27.823	34.423	4.81	27.816	22.023	30.269	38.164	0.174	0.3	-2.83	0.867	37.34	2.221	30.0
40	27.785	34.437	4.75	27.776	22.047	30.294	38.189	0.232	0.5	-3.88	1.307	53.36	2.655	40.0
50	27.754	34.446	4.75	27.743	22.064	30.312	38.208	0.290	0.7	-5.96	1.514	73.05	3.107	50.0
100	27.026	34.698	4.76	27.003	22.492	30.754	38.665	0.572	2.9	-91.54	5.493	772.64	10.104	100.0
125	23.288	34.794	4.39	23.262	23.704	32.062	40.062	0.693	4.3	-155.21	3.599	1107.71	12.099	125.0
150	18.982	34.774	3.95	18.955	24.861	33.346	41.465	0.785	5.6	-145.58	-2.786	845.01	10.567	149.9
200	13.175	34.452	3.08	13.148	25.939	34.631	42.944	0.912	7.8	-81.20	-2.827	343.34	6.736	199.7
250	10.529	34.579	1.41	10.499	26.537	35.333	43.743	1.002	9.8	-24.53	3.536	172.26	4.771	249.5
300	10.105	34.629	0.86	10.070	26.650	35.463	43.890	1.076	11.9	-10.60	0.608	55.73	2.714	299.2
350	9.682	34.654	0.66	9.642	26.743	35.574	44.017	1.146	14.2	-4.83	0.014	20.17	1.633	348.9
400	9.289	34.641	0.66	9.244	26.798	35.646	44.105	1.213	16.8	-7.82	-0.289	26.46	1.870	398.6
450	8.992	34.634	0.62	8.942	26.841	35.702	44.174	1.278	19.6	-8.34	-0.214	29.48	1.974	448.3
500	8.581	34.616	0.63	8.527	26.892	35.772	44.261	1.342	22.7	-10.45	-0.711	27.85	1.918	497.9
600	7.562	34.562	0.80	7.502	27.003	35.930	44.463	1.462	29.4	-11.49	-0.479	33.64	2.108	597.2
700	6.441	34.540	0.87	6.376	27.140	36.121	44.703	1.570	36.6	-9.16	-0.119	30.13	1.995	696.5
800	5.672	34.538	1.02	5.602	27.237	36.255	44.873	1.668	44.1	-5.76	-0.019	18.83	1.577	795.7
900	5.124	34.542	1.20	5.049	27.307	36.352	44.995	1.758	51.9	-5.36	0.093	19.15	1.591	894.8
1000	4.654	34.552	1.23	4.573	27.369	36.437	45.103	1.841	60.0	-4.79	0.096	17.07	1.502	993.9
1200	3.750	34.574	1.63	3.660	27.482	36.597	45.306	1.992	76.8	-3.46	0.100	12.63	1.292	1191.8
1400	3.196	34.591	1.85	3.094	27.550	36.695	45.432	2.126	94.6	-2.81	0.079	10.07	1.153	1389.6
1600	2.731	34.606	2.08	2.618	27.605	36.775	45.535	2.247	113.1	-1.78	0.079	6.95	0.958	1587.2
1800	2.449	34.621	2.24	2.323	27.642	36.827	45.603	2.360	132.6	-1.49	0.071	5.93	0.885	1784.6
2000	2.195	34.635	2.39	2.056	27.675	36.875	45.664	2.466	153.1	-0.96	0.050	3.95	0.723	1981.8
2200	2.055	34.644	2.51	1.901	27.694	36.902	45.699	2.567	174.9	-0.67	0.040	2.91	0.621	2178.8
2400	1.933	34.652	2.64	1.763	27.711	36.927	45.731	2.666	198.1	-0.71	0.040	3.11	0.642	2375.6
2600	1.834	34.658	2.76	1.648	27.725	36.947	45.757	2.762	222.6	-0.59	0.029	2.55	0.581	2572.3
2800	1.710	34.665	2.90	1.507	27.741	36.970	45.787	2.856	248.5	-0.62	0.033	2.78	0.606	2768.7
3000	1.647	34.669	3.03	1.427	27.750	36.984	45.806	2.948	275.6	-0.36	0.018	1.61	0.461	2965.0
3200	1.604	34.672	3.14	1.365	27.757	36.994	45.819	3.039	304.4	-0.42	0.021	1.93	0.506	3161.1
3400	1.541	34.677	3.29	1.284	27.767	37.009	45.837	3.129	334.7	-0.33	0.018	1.58	0.457	3357.0
3600	1.485	34.681	3.44	1.209	27.775	37.021	45.854	3.218	366.4	-0.29	0.018	1.47	0.441	3552.8
3800	1.453	34.684	3.56	1.157	27.781	37.030	45.866	3.306	399.6	-0.24	0.014	1.20	0.399	3748.4
4000	1.422	34.687	3.70	1.105	27.787	37.039	45.877	3.394	434.6	-0.29	0.020	1.56	0.454	3943.8
4200	1.386	34.692	3.88	1.048	27.795	37.050	45.891	3.481	471.0	-0.26	0.018	1.42	0.433	4139.0
4305	1.376	34.694	3.95	1.027	27.797	37.054	45.896	3.526	490.8	-0.16	0.012	1.42	0.000	4241.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.5	27.912	27.911	21.987	30.230	38.123	34.416	34.417	4.76	1.71	0.14	9.10				2	222222555
23	97.8	27.145	27.122	22.460	30.719	38.627	34.706	34.695	4.71	1.51	0.16	9.10				97	222222555
22	148.4	18.625	18.599	24.930	33.426	41.557	34.746	34.776	3.64	6.45	0.73	17.00				147	222222555
21	194.9	13.630	13.602	25.878	34.552	42.848	34.492	34.492	3.00	15.61	1.37	26.70				193	222222555
20	243.9	10.717	10.688	26.470	35.258	43.662	34.535	34.531	1.26	31.03	2.29	40.20				242	222222555
19	298.4	10.012	9.977	26.674	35.490	43.920	34.638	34.638	0.65	35.56	2.53	44.60				296	222222555
18	398.2	9.223	9.179	26.813	35.664	44.126	34.647	34.645	0.59	39.49	2.67	46.80				395	222222555
17	496.4	8.272	8.220	26.920	35.814	44.316	34.592	34.594	0.72	46.54	2.76	47.40				493	222222555
16	593.6	7.349	7.291	27.028	35.965	44.507	34.556	34.557	0.78	56.11	2.90	49.00				589	222222555
15	695.3	6.220	6.157	27.167	36.158	44.751	34.538	34.536	0.91	69.31	3.01	51.00				690	222222555
14	799.8	5.626	5.556	27.244	36.264	44.884	34.539	34.538	0.97	77.67	3.05	51.90				793	222222555
13	1000.2	4.491	4.411	27.389	36.466	45.139	34.556	34.554	1.26	97.62	3.09	52.30				992	222222555
12	1198.3	3.810	3.719	27.473	36.585	45.292	34.570	34.570	1.62	111.92	3.01	51.40				1188	222222555
11	1399.6	3.279	3.176	27.541	36.681	45.414	34.589	34.588	1.82	123.41	2.99	51.20				1387	222222555
10	1597.9	2.731	2.618	27.606	36.775	45.536	34.607	34.606	2.09	135.29	2.92	50.40				1582	222222555
9	1900.9	2.313	2.180	27.659	36.852	45.635	34.627	34.628	2.30	144.46	2.87	50.00				1881	222222555
8	2181.9	2.108	1.954	27.688	36.893	45.687	34.641	34.641	2.47	148.69	2.82	49.30				2158	222222555
7	2501.5	1.902	1.724	27.717	36.935	45.740	34.655	34.655	2.68	152.32	2.78	48.80				2472	222222555
6	2802.6	1.723	1.520	27.740	36.969	45.785	34.665	34.665	2.91	154.54	2.73	48.10				2768	222222555
5	3102.2	1.632	1.403	27.754	36.989	45.812	34.672	34.670	3.09	153.63	2.69	47.50				3062	222222555
4	3403.1	1.549	1.292	27.765	37.007	45.835	34.676	34.677	3.26	152.72	2.63	46.90				3356	222222555
3	3703.9	1.470	1.184	27.778	37.026	45.860	34.683	34.682	3.50	148.69	2.59	46.20				3651	222222555
2	4006.5	1.417	1.100	27.787	37.040	45.878	34.687	34.688	3.72	144.26	2.52	45.60				3946	222222555
1	4307.8	1.376	1.027	27.796	37.053	45.895	34.693	34.693	3.95	137.71	2.45	44.80				4240	222222555

CRUISE: MW 893 STA: 75 DATE (D/M/Y): 2- 3-89 TIME: 0850 LAT: 9 36.03 N LONG: 167 56.91 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24323E-04 1/S SOUND SPEED= 1502.6 M/S Depth= 4507 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.875	34.465	2.71	27.875	22.035	30.279	38.172	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.875	34.465	2.71	27.875	22.035	30.279	38.173	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.752	34.416	4.64	27.747	22.040	30.288	38.185	0.116	0.1	-12.89	-1.854	66.24	2.957	20.0
30	27.636	34.405	4.69	27.629	22.070	30.320	38.220	0.174	0.3	-2.19	0.083	18.33	1.556	30.0
40	27.627	34.405	4.73	27.618	22.074	30.325	38.224	0.231	0.5	-0.76	0.030	6.38	0.918	40.0
50	27.622	34.405	4.73	27.610	22.076	30.327	38.227	0.289	0.7	-0.63	-0.011	4.70	0.787	50.0
100	27.207	34.553	4.75	27.184	22.325	30.584	38.492	0.576	2.9	-59.46	9.395	614.36	9.006	100.0
125	24.406	34.784	4.64	24.379	23.367	31.695	39.667	0.705	4.4	-253.73	2.447	1775.75	15.311	125.0
150	18.535	34.746	3.85	18.509	24.952	33.452	41.585	0.797	5.7	-156.32	-5.395	853.95	10.618	149.9
200	12.339	34.442	2.75	12.312	26.096	34.820	43.164	0.915	7.8	-42.87	0.039	202.28	5.168	199.7
250	10.652	34.525	1.50	10.622	26.473	35.265	43.671	1.003	9.8	-21.15	3.008	147.27	4.409	249.5
300	10.033	34.653	0.73	9.998	26.681	35.497	43.926	1.076	11.8	-8.13	0.409	41.65	2.345	299.2
350	9.557	34.659	0.58	9.517	26.767	35.603	44.051	1.146	14.1	-9.65	-0.163	36.62	2.199	348.9
400	9.058	34.627	0.63	9.014	26.824	35.683	44.151	1.212	16.7	-6.86	-0.498	18.41	1.559	398.6
450	8.904	34.621	0.65	8.855	26.845	35.710	44.186	1.276	19.5	-4.50	-0.146	15.22	1.418	448.3
500	8.375	34.598	0.69	8.322	26.910	35.799	44.297	1.339	22.5	-12.02	-0.540	36.77	2.203	497.9
600	7.343	34.556	0.80	7.284	27.029	35.966	44.509	1.456	29.1	-10.52	-0.292	32.88	2.084	597.2
700	6.258	34.538	0.86	6.194	27.163	36.152	44.743	1.561	36.0	-5.09	-0.043	17.05	1.500	696.5
800	5.916	34.537	0.93	5.845	27.207	36.213	44.819	1.660	43.5	-2.86	0.047	10.82	1.195	795.7
900	5.661	34.540	0.92	5.582	27.241	36.260	44.878	1.755	51.8	-5.87	0.009	19.71	1.613	894.8
1000	4.961	34.544	1.17	4.878	27.328	36.382	45.033	1.844	60.4	-4.83	0.072	17.44	1.517	993.9
1200	3.973	34.558	1.55	3.880	27.447	36.551	45.250	2.003	78.3	-4.72	0.096	16.72	1.486	1191.8
1400	3.258	34.588	1.84	3.155	27.542	36.683	45.417	2.140	96.4	-2.87	0.121	11.10	1.210	1389.6
1600	2.767	34.607	2.03	2.654	27.602	36.770	45.529	2.262	115.0	-1.70	0.066	6.47	0.925	1587.2
1800	2.480	34.619	2.19	2.354	27.638	36.822	45.596	2.376	134.7	-1.77	0.075	6.92	0.956	1784.6
2000	2.236	34.632	2.35	2.096	27.669	36.867	45.654	2.482	155.3	-0.97	0.055	4.05	0.731	1981.8
2200	2.015	34.645	2.51	1.862	27.698	36.909	45.708	2.584	177.0	-0.84	0.049	3.63	0.693	2178.8
2400	1.909	34.653	2.63	1.740	27.714	36.931	45.736	2.681	199.9	-0.60	0.033	2.62	0.588	2375.6
2600	1.810	34.659	2.76	1.624	27.728	36.951	45.762	2.777	224.2	-0.49	0.026	2.17	0.535	2572.3
2800	1.741	34.663	2.87	1.538	27.737	36.965	45.781	2.870	250.1	-0.34	0.017	1.52	0.448	2768.7
3000	1.688	34.667	2.97	1.467	27.746	36.978	45.797	2.964	277.6	-0.38	0.019	1.73	0.478	2965.0
3200	1.639	34.671	3.09	1.400	27.753	36.989	45.812	3.056	306.8	-0.36	0.018	1.67	0.470	3161.1
3400	1.582	34.675	3.21	1.324	27.762	37.002	45.828	3.148	337.6	-0.35	0.018	1.66	0.468	3357.1
3600	1.542	34.678	3.32	1.265	27.768	37.012	45.841	3.238	370.0	-0.45	0.024	2.18	0.537	3552.8
3800	1.464	34.683	3.50	1.167	27.780	37.028	45.863	3.328	403.7	-0.35	0.023	1.84	0.493	3748.4
4000	1.434	34.687	3.66	1.117	27.786	37.037	45.875	3.416	438.8	-0.24	0.017	1.30	0.414	3943.8
4200	1.400	34.690	3.82	1.062	27.792	37.047	45.887	3.503	475.5	-0.28	0.018	1.52	0.449	4139.0
4400	1.359	34.696	4.02	1.000	27.801	37.059	45.902	3.590	513.6	-0.26	0.019	1.49	0.444	4334.1
4529	1.344	34.698	4.12	0.970	27.804	37.064	45.909	3.646	538.9	-0.24	0.019	1.49	0.000	4459.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
12	2.0	27.854	27.855	22.031	30.276	38.170	34.450	34.450	4.89	1.81	0.15	0.00	0.00	1.661	0.905	1	222222222
11	48.1	27.621	27.609	22.078	30.329	38.229	34.407	34.407	4.89	1.71	0.15	0.00	0.00	1.672	0.883	47	222222222
10	72.4	27.604	27.588	22.087	30.339	38.239	34.410	34.409	4.65	1.51	0.20	0.00	0.00	1.629	0.874	71	222222222
9	97.2	25.607	25.585	23.120	31.415	39.356	34.942	34.747	4.82	1.91	0.21	0.20	0.00	1.819	0.902	96	222222222
8	147.2	16.492	16.468	25.400	33.968	42.165	34.687	34.693	3.36	9.47	0.95	11.10	0.00	1.526	0.778	146	222222222
7	196.3	12.305	12.279	26.094	34.820	43.164	34.431	34.442	2.52	20.95	1.67	21.90	0.00	1.014	0.510	195	222222222
6	248.3	10.499	10.469	26.530	35.327	43.738	34.563	34.562	0.99	33.14	2.39	32.50	0.00	0.262	0.134	246	222222222
5	295.7	9.973	9.939	26.699	35.517	43.948	34.663	34.663	0.52	35.76	2.58	36.20	0.00		0.033	293	222222252
4	398.7	8.998	8.955	26.832	35.693	44.164	34.624	34.623	0.60	41.10	2.70	37.40	0.00		-0.004	396	222222252
3	497.4	8.413	8.361	26.905	35.793	44.289	34.600	34.598	0.66	46.34	2.78	38.30	0.00		0.008	494	222222252
2	598.3	7.221	7.163	27.042	35.985	44.533	34.550	34.551	0.83	55.51	2.89	39.70	0.00	0.013	-0.004	594	222222222
1	698.2	6.260	6.196	27.163	36.152	44.743	34.539	34.538	0.83	69.21	3.04	42.00	0.00	-0.006	-0.004	693	222222222
24	798.1	5.880	5.809	27.212	36.219	44.828	34.538	34.537	0.88	74.35	3.07	42.80	0.00	0.004	-0.004	792	222222222
23	999.2	4.810	4.728	27.348	36.409	45.067	34.548	34.549	1.23	91.37	3.07	42.80	0.00	0.005	0.002	991	222222222
22	1198.0	3.858	3.767	27.460	36.570	45.274	34.560	34.560	1.62	112.22	3.00	42.00	0.00	0.023	-0.004	1187	222222222
21	1401.0	3.169	3.068	27.553	36.699	45.437	34.592	34.590	1.89	125.72	2.95	41.80	0.00	-0.011	-0.004	1388	222222222
20	1599.6	2.744	2.631	27.606	36.775	45.535	34.608	34.608	2.06	134.99	2.94	41.30	0.00	0.002	0.002	1584	222222222
19	1798.0	2.485	2.359	27.637	36.821	45.594	34.619	34.621	2.20	140.94	2.89	41.00	0.00		-0.004	1780	222222252
18	2000.4	2.266	2.126	27.666	36.863	45.648	34.631	34.632	2.37	146.27	2.85	40.60	0.00	-0.007	0.002	1979	222222222
17	2502.1	1.883	1.705	27.718	36.937	45.743	34.654	34.655	2.69	152.82	2.77	39.70	0.00	0.006	0.008	2473	222222222
16	3001.5	1.701	1.480	27.744	36.976	45.794	34.667	34.670	2.99	154.33	2.70	39.10	0.00	0.000	0.002	2963	222222252
15	3504.6	1.562	1.294	27.765	37.007	45.835	34.677	34.679		152.02	2.63	38.20	0.00	0.020	0.002	3456	225222222
14	4005.8	1.434	1.117	27.786	37.037	45.875	34.687	34.688	3.71	145.57	2.52	36.60	0.00	0.007	0.008	3945	222222222
13	4531.9	1.343	0.969	27.804	37.064	45.909	34.697	34.700	4.14	133.48	2.41	35.40	0.00			4458	222222255

CRUISE: MW 893 STA: 76 DATE (D/M/Y): 2- 3-89 TIME: 1542 LAT: 9 34.96 N LONG: 168 36.27 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24278E-04 1/S SOUND SPEED= 1502.8 M/S Depth= 4583 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.887	34.468	4.12	27.887	22.034	30.278	38.171	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.887	34.468	4.12	27.886	22.034	30.278	38.171	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.899	34.452	5.13	27.894	22.020	30.264	38.156	0.116	0.1	-0.29	-0.012	2.01	0.516	20.0
30	27.900	34.452	5.05	27.893	22.020	30.264	38.157	0.174	0.3	0.01	-0.029	-0.59	-0.280	30.0
40	27.903	34.452	5.10	27.894	22.019	30.263	38.156	0.232	0.5	-0.42	-0.112	1.24	0.405	40.0
50	27.900	34.451	5.01	27.889	22.020	30.264	38.158	0.290	0.7	-2.46	-0.387	12.08	1.264	50.0
100	25.471	34.742	4.68	25.449	23.011	31.312	39.258	0.571	2.9	-125.73	7.976	1054.14	11.808	100.0
125	21.804	34.828	3.87	21.779	24.150	32.549	40.588	0.680	4.1	-200.12	-3.575	1273.31	12.977	125.0
150	17.863	34.711	3.35	17.838	25.092	33.614	41.767	0.761	5.3	-115.20	-5.263	560.52	8.610	149.9
200	12.070	34.515	1.85	12.044	26.205	34.938	43.290	0.876	7.3	-51.30	1.201	261.36	5.880	199.7
250	10.592	34.604	0.98	10.562	26.546	35.338	43.746	0.959	9.2	-16.05	0.939	86.23	3.377	249.4
300	9.795	34.630	0.72	9.761	26.704	35.530	43.968	1.032	11.2	-6.77	0.918	45.11	2.443	299.1
350	9.476	34.647	0.60	9.437	26.771	35.611	44.062	1.101	13.5	-7.32	-0.343	23.60	1.767	348.9
400	9.118	34.614	0.72	9.073	26.805	35.661	44.127	1.167	16.0	-5.91	-0.132	21.32	1.679	398.6
450	8.768	34.618	0.63	8.719	26.864	35.735	44.216	1.232	18.8	-7.57	-0.374	23.11	1.748	448.2
500	8.403	34.607	0.50	8.350	26.912	35.800	44.297	1.294	21.9	-10.07	-0.556	28.80	1.952	497.9
600	7.421	34.560	0.70	7.361	27.022	35.955	44.494	1.413	28.5	-10.05	-0.368	30.63	2.013	597.2
700	6.535	34.538	0.85	6.470	27.127	36.102	44.681	1.521	35.7	-8.98	-0.074	30.31	2.002	696.4
800	5.768	34.537	0.92	5.698	27.225	36.238	44.851	1.619	43.2	-5.78	0.066	20.90	1.663	795.6
900	5.280	34.541	1.03	5.203	27.288	36.325	44.961	1.711	51.1	-4.45	0.005	14.77	1.398	894.7
1000	4.794	34.547	1.22	4.712	27.349	36.411	45.070	1.797	59.5	-5.07	0.175	19.78	1.617	993.8
1200	3.865	34.563	1.63	3.774	27.462	36.571	45.275	1.951	76.7	-3.87	0.061	13.23	1.323	1191.8
1400	3.233	34.589	1.85	3.130	27.545	36.688	45.423	2.087	94.7	-2.65	0.087	9.78	1.137	1389.6
1600	2.789	34.604	2.04	2.676	27.598	36.765	45.523	2.210	113.5	-1.85	0.083	7.27	0.981	1587.2
1800	2.473	34.619	2.22	2.347	27.638	36.823	45.597	2.324	133.3	-1.46	0.070	5.87	0.881	1784.5
2000	2.221	34.633	2.37	2.081	27.671	36.869	45.657	2.431	154.0	-1.13	0.066	4.79	0.796	1981.7
2200	2.022	34.646	2.55	1.868	27.698	36.908	45.707	2.532	175.7	-0.84	0.048	3.62	0.692	2178.7
2400	1.904	34.653	2.67	1.734	27.714	36.932	45.737	2.630	198.6	-0.66	0.033	2.81	0.610	2375.6
2600	1.815	34.658	2.79	1.630	27.726	36.950	45.760	2.725	222.9	-0.49	0.026	2.14	0.532	2572.2
2800	1.733	34.663	2.90	1.530	27.738	36.967	45.782	2.819	248.7	-0.46	0.023	2.02	0.517	2768.7
3000	1.651	34.668	3.03	1.431	27.749	36.983	45.804	2.911	276.0	-0.43	0.022	1.97	0.510	2965.0
3200	1.587	34.673	3.16	1.349	27.759	36.997	45.822	3.002	304.7	-0.47	0.024	2.18	0.537	3161.1
3400	1.517	34.678	3.32	1.260	27.769	37.012	45.842	3.092	334.8	-0.39	0.022	1.89	0.499	3357.0
3600	1.473	34.682	3.47	1.197	27.776	37.023	45.856	3.180	366.3	-0.26	0.015	1.27	0.411	3552.7
3800	1.451	34.684	3.58	1.155	27.781	37.030	45.865	3.268	399.5	-0.23	0.015	1.19	0.397	3748.3
4000	1.423	34.687	3.71	1.106	27.787	37.039	45.877	3.355	434.4	-0.24	0.016	1.27	0.411	3943.7
4200	1.400	34.690	3.83	1.062	27.792	37.047	45.887	3.443	470.9	-0.23	0.017	1.28	0.411	4139.0
4400	1.377	34.694	3.97	1.017	27.798	37.055	45.898	3.530	509.2	-0.19	0.015	1.10	0.382	4334.0
4581	1.363	34.697	4.08	0.983	27.803	37.062	45.906	3.609	545.3	-0.23	0.016	1.10	0.000	4510.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.7	27.855	27.854	22.020	30.265	38.159	34.436	34.436	4.78	1.81	0.17	9.10				6	222222555
23	96.9	26.690	26.667	22.605	30.875	38.793	34.707	34.699	4.53	2.42	0.29	9.80				96	222222555
22	145.0	18.739	18.713	24.916	33.409	41.535	34.765	34.773	3.57	6.65	0.75	16.80				144	222222555
21	196.5	12.938	12.911	26.049	34.749	43.069	34.532	34.504	2.36	20.45	1.67	30.80				195	222222555
20	246.1	10.678	10.648	26.529	35.319	43.722	34.603	34.600	0.89	32.74	2.43	41.90				244	222222555
19	295.0	9.774	9.740	26.715	35.541	43.981	34.639	34.636	0.61	36.67	2.59	44.90				293	222222555
18	396.4	9.021	8.978	26.838	35.697	44.167	34.637	34.635	0.65	40.70	2.69	46.50				393	222222555
17	494.4	7.884	7.834	26.970	35.882	44.400	34.581	34.581	0.64	50.87	2.89	48.20				491	222222555
16	596.1	7.076	7.019	27.062	36.012	44.566	34.550	34.550	0.76	59.13	3.01	49.20				591	222222555
15	698.5	6.294	6.231	27.157	36.144	44.734	34.537	34.537	0.88	68.50	3.03	50.80				693	222222555
14	796.5	5.688	5.618	27.225	36.242	44.859	34.524	34.523	1.29	76.97	2.95	50.00				790	222222555
13	997.8	4.747	4.666	27.350	36.414	45.076	34.542	34.540	1.39	93.18	3.05	51.00				989	222222555
12	1296.3	3.480	3.384	27.514	36.643	45.366	34.580	34.577	1.76	118.87	3.00	50.90				1284	222222555
11	1599.3	2.771	2.658	27.600	36.768	45.526	34.604	34.603	2.04	134.99	2.96	50.40				1584	222222555
10	1897.2	2.353	2.220	27.655	36.846	45.626	34.626	34.624	2.30	143.45	2.88	49.70				1877	222222555
9	2200.0	2.034	1.880	27.697	36.907	45.705	34.646	34.643	2.51	150.20	2.83	49.20				2176	222222555
8	2498.8	1.851	1.674	27.721	36.942	45.750	34.656	34.656	2.70	152.92	2.81	48.60				2470	222222555
7	2801.5	1.731	1.528	27.739	36.968	45.784	34.665	34.663	2.88	154.13	2.74	48.00				2767	222222555
6	3101.8	1.614	1.385	27.754	36.991	45.814	34.671	34.671	3.09	154.13	2.69	47.60				3061	222222555
5	3403.6	1.516	1.260	27.769	37.013	45.843	34.678	34.677	3.32	151.51	2.65	46.90				3357	222222555
4	3704.8	1.460	1.174	27.779	37.027	45.861	34.683	34.683	3.51	148.39	2.59	46.20				3651	222222555
3	4006.3	1.422	1.105	27.787	37.039	45.877	34.687	34.687	3.70	143.25	2.57	45.40				3946	222222555
2	4307.2	1.388	1.039	27.795	37.051	45.892	34.692	34.692	3.91	138.92	2.51	44.90				4239	222222555
1	4582.7	1.364	0.984	27.802	37.061	45.905	34.696	34.697	4.09	134.19	2.44	44.30				4508	222222555

CRUISE: MW 893 STA: 77 DATE (D/M/Y): 3- 3-89 TIME: 2305 LAT: 9 36.72 N LONG: 169 16.77 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24352E-04 1/S SOUND SPEED= 1499.9 M/S Depth= 4084 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.477	34.427	4.65	27.477	22.136	30.390	38.292	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.477	34.427	4.65	27.477	22.136	30.390	38.292	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.488	34.403	4.98	27.484	22.115	30.369	38.272	0.114	0.1	-1.51	-0.262	6.93	0.956	20.0
30	27.480	34.400	5.02	27.473	22.117	30.371	38.274	0.171	0.3	-0.79	-0.205	2.40	0.562	30.0
40	27.461	34.395	4.99	27.452	22.119	30.374	38.278	0.228	0.5	-2.97	-0.604	11.98	1.257	40.0
50	27.451	34.393	5.00	27.440	22.122	30.378	38.281	0.286	0.7	-0.18	0.085	2.89	0.618	50.0
100	25.366	34.833	4.66	25.344	23.112	31.414	39.362	0.565	2.9	-118.09	16.328	1155.03	12.341	100.0
125	22.570	34.977	4.16	22.544	24.049	32.424	40.441	0.671	4.1	-127.29	-4.690	790.18	10.208	124.9
150	18.825	34.795	3.67	18.798	24.917	33.406	41.530	0.758	5.3	-130.40	-7.550	644.38	9.218	149.9
200	13.173	34.477	2.87	13.145	25.959	34.650	42.963	0.886	7.5	-75.64	-3.789	308.06	6.374	199.7
250	11.044	34.487	1.57	11.013	26.374	35.150	43.541	0.982	9.7	-23.18	1.825	137.93	4.265	249.4
300	10.312	34.627	0.81	10.276	26.614	35.418	43.836	1.062	12.0	-14.61	1.424	88.97	3.425	299.2
350	9.772	34.644	0.70	9.732	26.720	35.547	43.987	1.134	14.4	-9.86	-0.042	40.29	2.305	348.9
400	9.312	34.642	0.63	9.267	26.795	35.642	44.100	1.201	16.9	-8.38	-0.329	28.02	1.922	398.6
450	8.890	34.623	0.63	8.841	26.848	35.714	44.190	1.267	19.8	-7.83	0.000	31.34	2.033	448.3
500	8.467	34.612	0.60	8.413	26.907	35.792	44.286	1.330	22.8	-13.37	-0.665	39.90	2.294	497.9
600	7.152	34.551	0.71	7.093	27.053	35.999	44.550	1.446	29.3	-9.78	-0.248	31.05	2.024	597.2
700	6.409	34.536	0.85	6.345	27.142	36.124	44.708	1.551	36.3	-6.81	-0.084	19.25	1.593	696.5
800	5.738	34.538	0.87	5.668	27.229	36.244	44.859	1.649	43.8	-4.88	0.046	17.50	1.519	795.6
900	5.272	34.539	1.05	5.196	27.287	36.325	44.961	1.741	51.7	-4.92	0.025	16.87	1.492	894.8
1000	4.690	34.546	1.27	4.609	27.359	36.426	45.090	1.827	60.1	-6.21	0.177	23.55	1.762	993.8
1200	3.871	34.569	1.55	3.779	27.466	36.575	45.278	1.981	77.3	-4.32	0.110	15.61	1.435	1191.8
1400	3.194	34.589	1.84	3.092	27.548	36.693	45.430	2.116	95.2	-3.11	0.098	11.42	1.227	1389.6
1600	2.736	34.606	2.06	2.623	27.605	36.774	45.535	2.237	113.8	-2.25	0.101	8.79	1.076	1587.2
1800	2.361	34.624	2.28	2.236	27.652	36.842	45.622	2.348	133.0	-1.56	0.076	6.27	0.909	1784.6
2000	2.129	34.638	2.45	1.991	27.683	36.886	45.678	2.452	153.1	-0.99	0.061	4.28	0.751	1981.8
2200	2.002	34.646	2.57	1.848	27.700	36.911	45.710	2.552	174.4	-0.75	0.040	3.18	0.648	2178.8
2400	1.910	34.652	2.68	1.741	27.713	36.930	45.735	2.649	197.2	-0.42	0.024	1.83	0.492	2375.6
2600	1.824	34.657	2.79	1.638	27.725	36.948	45.758	2.745	221.6	-0.51	0.027	2.27	0.547	2572.2
2800	1.740	34.663	2.91	1.537	27.737	36.965	45.781	2.839	247.7	-0.52	0.027	2.33	0.554	2768.7
3000	1.665	34.668	3.04	1.444	27.747	36.981	45.801	2.932	275.1	-0.48	0.024	2.20	0.539	2965.0
3200	1.607	34.672	3.16	1.368	27.756	36.994	45.818	3.023	304.0	-0.27	0.015	1.27	0.409	3161.1
3400	1.563	34.675	3.27	1.306	27.763	37.004	45.832	3.114	334.6	-0.34	0.018	1.64	0.465	3357.0
3600	1.524	34.678	3.38	1.247	27.770	37.014	45.845	3.204	366.7	-0.35	0.019	1.72	0.476	3552.8
3800	1.473	34.683	3.54	1.176	27.778	37.027	45.861	3.293	400.4	-0.26	0.015	1.34	0.420	3748.3
4000	1.426	34.687	3.69	1.109	27.786	37.038	45.876	3.382	435.6	-0.34	0.021	1.34	0.000	3943.8
4085	1.419	34.688	3.75	1.093	27.788	37.041	45.880	3.419	451.0	-0.22	0.014	1.34	0.000	4026.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
12	1.0	27.570	27.570	22.101	30.353	38.253	34.421	34.425	4.93	1.11	0.19	0.00	0.00	1.708		0	222222225
11	46.7	27.492	27.481	22.124	30.378	38.281	34.414	34.415	4.94	1.21	0.17	0.00	0.00	1.616		46	222222225
10	70.9	27.492	27.475	22.129	30.383	38.286	34.418	34.419	4.90	1.31	0.21	0.00	0.00	1.640		70	222222225
9	96.4	26.785	26.763	22.480	30.750	38.667	34.581	34.583	4.86	1.51	0.23	0.17	0.03	1.737	0.876	95	222222222
8	147.6	19.031	19.005	24.878	33.361	41.478	34.813	34.803	3.72	5.64	0.71	6.90	0.20	1.700	0.902	146	222222222
7	196.3	12.435	12.409	26.094	34.814	43.153	34.463	34.459	2.68	20.45	1.63	21.20	0.00	1.083	0.532	195	222222222
6	246.9	10.806	10.776	26.480	35.264	43.663	34.568	34.562	1.12	30.93	2.35	31.50	0.00	0.319	0.152	245	222222222
5	296.4	10.074	10.040	26.676	35.490	43.917	34.655	34.653	0.66	34.96	2.54	35.40	0.00		0.046	294	222222252
4	346.4	9.667	9.628	26.737	35.569	44.013	34.644	34.646	0.56	36.77	2.63	36.40	0.00	0.064	0.033	344	222222222
3	397.5	9.227	9.183	26.809	35.660	44.122	34.643	34.641	0.53	39.19	2.70	37.50	0.00	0.033	0.008	394	222222222
2	497.1	8.463	8.410	26.902	35.787	44.281	34.605	34.608	0.65	44.63	2.79	38.30	0.00	0.016	0.014	493	222222222
1	597.2	7.636	7.576	26.997	35.920	44.450	34.568	34.568	0.73	52.89	2.89	39.30	0.00	0.006	-0.003	592	222222222
24	697.0	6.716	6.651	27.107	36.075	44.645	34.544	34.544	0.81	62.46	3.01	41.40	0.00	0.002	-0.003	691	222222222
23	798.5	5.984	5.912	27.196	36.199	44.803	34.535	34.536	0.91	72.63	3.06	42.20	0.00	0.005	0.002	792	222222222
22	898.2	5.356	5.279	27.276	36.310	44.943	34.538	34.539	1.08	81.40	3.09	42.70	0.00	0.013	0.002	891	222222222
21	1097.0	4.301	4.214	27.413	36.499	45.182	34.559	34.558	1.32	101.04	3.12	43.00	0.00	-0.009	-0.003	1087	222222222
20	1297.1	3.476	3.380	27.514	36.644	45.367	34.580	34.579	1.76	118.37	3.04	42.00	0.00	-0.003		1285	222222225
19	1497.0	3.015	2.907	27.571	36.726	45.472	34.596	34.597	1.94	128.65	2.96	41.50	0.00		-0.003	1483	222222252
18	1749.2	2.475	2.353	27.638	36.822	45.595	34.619	34.618	2.23	140.53	2.92	40.70	0.00	-0.006	-0.003	1732	222222222
17	2249.7	1.992	1.834	27.702	36.914	45.714	34.647	34.646	2.57	150.51	2.83	40.00	0.00	0.002	0.014	2225	222222222
16	2751.1	1.768	1.569	27.735	36.962	45.775	34.664	34.663	2.86	153.23	2.76	39.20	0.00	-0.004	-0.003	2717	222222222
15	3255.3	1.595	1.351	27.759	36.997	45.822	34.673	34.672	3.18	150.61	2.65	38.20	0.00	0.002	0.008	3212	222222222
14	3756.3	1.478	1.186	27.777	37.025	45.859	34.682	34.682	3.51	148.89	2.57	37.20	0.00	0.005		3702	222222225
13	4088.8	1.417	1.091	27.788	37.041	45.880	34.687	34.692	3.77	142.14	2.54	36.50	0.00			4026	222222255

CRUISE: MW 893 STA: 78 DATE (D/M/Y): 3- 3-89 TIME: 0441 LAT: 9 39.84 N LONG: 169 45.08 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24482E-04 1/S SOUND SPEED= 1492.7 M/S Depth= 2413 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.577	34.408	4.47	27.577	22.089	30.341	38.241	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.577	34.408	4.47	27.577	22.089	30.341	38.241	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.443	34.396	5.05	27.439	22.124	30.379	38.283	0.114	0.1	-1.36	0.222	14.51	1.379	20.0
30	27.437	34.397	5.07	27.430	22.128	30.383	38.287	0.171	0.3	-0.84	0.019	6.82	0.946	30.0
40	27.431	34.396	5.07	27.422	22.130	30.386	38.290	0.229	0.5	-0.47	0.052	4.54	0.772	40.0
50	27.427	34.397	5.07	27.416	22.133	30.388	38.293	0.286	0.7	-1.38	-0.001	10.62	1.180	50.0
100	25.436	34.897	4.78	25.414	23.139	31.439	39.384	0.565	2.9	-99.30	16.838	1038.55	11.671	100.0
125	23.432	35.037	4.43	23.406	23.846	32.197	40.190	0.675	4.1	-109.19	-1.802	678.46	9.433	124.9
150	18.562	34.763	3.57	18.536	24.959	33.458	41.590	0.765	5.4	-158.02	-6.935	880.61	10.747	149.9
200	12.906	34.449	3.04	12.879	25.991	34.693	43.015	0.892	7.6	-97.87	-4.177	404.41	7.283	199.7
250	10.640	34.528	1.60	10.610	26.478	35.270	43.676	0.981	9.6	-18.62	3.118	139.04	4.270	249.4
300	9.930	34.645	1.00	9.895	26.693	35.513	43.946	1.055	11.7	-7.62	1.359	57.42	2.744	299.2
350	9.364	34.653	0.79	9.325	26.794	35.639	44.095	1.124	14.0	-9.99	-0.050	40.11	2.294	348.9
400	8.872	34.627	0.76	8.829	26.854	35.720	44.197	1.188	16.5	-8.93	-0.328	29.63	1.971	398.6
450	8.419	34.609	0.65	8.372	26.911	35.798	44.293	1.251	19.2	-9.25	-0.524	26.43	1.862	448.3
500	8.033	34.595	0.75	7.982	26.959	35.864	44.376	1.311	22.1	-10.20	-0.328	32.90	2.077	497.9
600	7.051	34.551	0.72	6.993	27.067	36.017	44.573	1.424	28.4	-7.54	-0.233	23.32	1.749	597.2
700	6.373	34.539	0.79	6.309	27.149	36.132	44.718	1.529	35.4	-7.39	-0.073	24.94	1.809	696.4
800	5.718	34.536	0.92	5.648	27.230	36.245	44.861	1.627	42.9	-5.84	0.030	20.83	1.653	795.6
900	5.335	34.544	0.92	5.258	27.284	36.318	44.952	1.719	50.8	-6.46	0.086	23.07	1.739	894.7
1000	4.688	34.551	1.14	4.607	27.364	36.431	45.095	1.804	59.0	-3.42	0.069	12.47	1.279	993.8
1200	3.854	34.570	1.57	3.763	27.468	36.578	45.282	1.958	76.3	-3.95	0.098	14.37	1.373	1191.8
1400	3.205	34.587	1.83	3.104	27.546	36.690	45.427	2.094	94.3	-2.70	0.092	10.14	1.153	1389.6
1600	2.789	34.603	2.04	2.675	27.597	36.764	45.522	2.217	113.1	-2.39	0.093	9.14	1.095	1587.2
1800	2.399	34.620	2.23	2.273	27.646	36.834	45.612	2.330	132.6	-1.59	0.082	6.49	0.923	1784.5
2000	2.140	34.637	2.43	2.002	27.681	36.884	45.675	2.434	152.8	-0.63	0.040	2.76	0.602	1981.7
2200	1.993	34.646	2.54	1.839	27.701	36.913	45.712	2.534	174.3	-0.84	0.045	3.60	0.687	2178.7
2400	1.924	34.651	2.60	1.754	27.711	36.927	45.732	2.631	197.1	-0.42	0.024	3.60	0.000	2375.6
2417	1.919	34.652	2.60	1.748	27.712	36.929	45.733	2.640	199.2	-0.40	0.022	3.60	0.000	2392.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	27.469	27.467	22.114	30.369	38.272	34.395	34.394	4.78	1.51	0.16	0.01	-0.01			7	222222255
23	98.1	26.862	26.840	22.446	30.714	38.629	34.569	34.513	4.76	1.51	0.21	0.01	-0.01			97	222222255
22	147.2	17.791	17.765	25.132	33.656	41.812	34.741	34.742	3.63	6.85	0.75	8.48	0.02			146	222222255
21	198.0	12.296	12.270	26.099	34.825	43.170	34.435	34.433	2.77	20.75	1.56	20.91	-0.01			196	222222255
20	297.9	9.955	9.921	26.685	35.504	43.936	34.640	34.637	0.62	35.56	2.54	35.31	-0.01			296	222222255
18	496.7	8.244	8.192	26.932	35.827	44.330	34.601	34.598	0.61	47.55	2.79	38.81	-0.01			493	222222255
17	596.7	7.165	7.108	27.053	35.999	44.549	34.554	34.554	0.69	58.63	2.94	39.81	-0.01			592	222222255
16	700.0	6.444	6.380	27.138	36.118	44.701	34.538	34.538	0.81	66.79	2.96	41.81	-0.01			694	222222255
15	797.1	5.724	5.654	27.230	36.245	44.860	34.536	34.535	0.94	76.66	2.99	42.81	-0.01			791	222222255
14	898.1	5.299	5.222	27.289	36.325	44.960	34.545	34.543	0.93	82.81	3.16	43.61	-0.01			891	222222255
13	996.6	4.746	4.665	27.357	36.421	45.082	34.550	34.549	1.13	93.18	3.16	43.50	0.00			988	222222255
12	1098.0	4.327	4.240	27.410	36.495	45.176	34.558	34.558	1.34	100.94	3.13	43.00	0.00			1088	222222255
11	1198.9	3.835	3.744	27.471	36.582	45.287	34.571	34.569	1.56	111.52	3.07	42.40	0.00			1188	222222255
10	1298.2	3.538	3.441	27.506	36.632	45.352	34.577	34.577	1.70	117.97	3.06	42.10	0.00			1286	222222255
9	1398.8	3.225	3.123	27.545	36.688	45.424	34.589	34.585	1.78	124.51	3.03	42.10	0.00			1386	222222255
8	1499.1	3.012	2.904	27.572	36.726	45.473	34.596	34.598	1.89	129.45	2.99	42.00	0.00			1485	222222255
7	1599.7	2.738	2.625	27.601	36.771	45.531	34.602	34.609	2.02	135.09	2.99	41.30	0.00			1584	222222255
6	1699.4	2.518	2.399	27.631	36.812	45.584	34.615	34.616	2.17	140.53	2.94	41.40	0.00			1682	222222255
5	1800.1	2.366	2.241	27.649	36.839	45.619	34.622		2.21	144.46	2.92	41.10	0.00			1782	252222255
4	1900.7	2.202	2.071	27.672	36.872	45.660	34.633	34.630	2.34	146.68	2.90	40.40	0.00			1881	222222255
3	2001.4	2.128	1.990	27.684	36.887	45.679	34.639	34.638	2.42	147.79	2.86	40.40	0.00			1980	222222255
2	2204.0	1.982	1.829	27.701	36.914	45.714	34.646	34.648	2.55	151.11	2.83	40.30	0.00			2180	222222255
1	2421.6	1.916	1.745	27.712	36.929	45.733	34.651	34.652	2.64	152.32	2.83	40.00	0.00			2394	222222255

CRUISE: MW 893 STA: 79 DATE (D/M/Y): 3- 3-89 TIME: 0805 LAT: 9 44.96 N LONG: 170 0.03 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24697E-04 1/S SOUND SPEED= 1500.0 M/S Depth= 4099 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.399	34.386	4.30	27.399	22.130	30.386	38.291	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.399	34.386	4.30	27.399	22.130	30.387	38.291	0.017	0.0	-0.46	0.000	0.00	0.000	3.0
20	27.393	34.384	4.88	27.388	22.132	30.388	38.293	0.114	0.1	-6.93	0.338	59.99	2.793	20.0
30	27.353	34.396	4.90	27.346	22.154	30.412	38.317	0.171	0.3	-3.64	0.618	39.54	2.267	30.0
40	27.330	34.396	4.90	27.321	22.162	30.420	38.327	0.228	0.5	-1.46	0.077	12.74	1.287	40.0
50	27.316	34.395	4.88	27.305	22.167	30.426	38.332	0.284	0.7	-1.52	-0.143	9.17	1.092	50.0
100	26.087	34.836	4.75	26.065	22.891	31.175	39.106	0.556	2.8	-73.77	6.707	672.93	9.354	100.0
125	23.536	35.038	4.02	23.510	23.816	32.165	40.156	0.671	4.1	-99.31	6.654	864.16	10.600	124.9
150	20.209	34.842	3.51	20.181	24.595	33.041	41.124	0.766	5.4	-161.71	-11.810	846.41	10.491	149.9
200	14.737	34.563	3.10	14.708	25.700	34.332	42.588	0.905	7.9	-82.81	-5.089	344.65	6.694	199.7
250	10.886	34.471	1.56	10.855	26.390	35.173	43.571	1.006	10.2	-48.27	2.949	275.00	5.980	249.5
300	9.936	34.628	0.93	9.902	26.679	35.499	43.932	1.082	12.3	-10.58	0.924	62.31	2.846	299.2
350	9.550	34.641	0.79	9.511	26.754	35.591	44.039	1.151	14.6	-7.49	-0.040	30.47	1.990	348.9
400	9.051	34.627	0.74	9.007	26.825	35.684	44.153	1.218	17.2	-9.94	-0.245	35.96	2.162	398.6
450	8.592	34.610	0.72	8.544	26.885	35.764	44.252	1.281	19.9	-9.13	-0.457	27.86	1.903	448.3
500	8.266	34.595	0.71	8.213	26.924	35.818	44.321	1.343	22.9	-7.38	-0.329	22.70	1.718	497.9
600	7.095	34.556	0.67	7.037	27.064	36.013	44.567	1.458	29.3	-7.97	-0.223	25.12	1.807	597.2
700	6.272	34.538	0.79	6.208	27.161	36.150	44.740	1.563	36.3	-8.02	-0.121	26.14	1.843	696.5
800	5.689	34.537	0.88	5.619	27.235	36.252	44.869	1.659	43.6	-4.37	0.026	15.32	1.411	795.6
900	5.092	34.545	1.00	5.017	27.313	36.359	45.004	1.749	51.4	-5.58	0.094	20.45	1.631	894.8
1000	4.648	34.546	1.27	4.567	27.365	36.434	45.100	1.832	59.5	-4.45	0.076	15.95	1.440	993.8
1200	3.913	34.570	1.45	3.821	27.463	36.569	45.271	1.986	76.7	-3.20	0.095	12.00	1.249	1191.8
1400	3.261	34.587	1.75	3.158	27.541	36.682	45.416	2.123	94.9	-3.24	0.088	11.89	1.243	1389.6
1600	2.728	34.606	2.00	2.615	27.605	36.775	45.536	2.246	113.7	-2.43	0.116	9.79	1.128	1587.2
1800	2.363	34.625	2.22	2.238	27.652	36.842	45.622	2.357	132.8	-1.54	0.084	6.44	0.915	1784.6
2000	2.122	34.638	2.42	1.984	27.683	36.887	45.679	2.460	152.8	-0.73	0.043	3.14	0.639	1981.8
2200	1.986	34.647	2.55	1.833	27.702	36.914	45.714	2.559	174.1	-0.70	0.041	3.09	0.634	2178.8
2400	1.884	34.653	2.66	1.714	27.716	36.935	45.741	2.656	196.8	-0.64	0.034	2.80	0.604	2375.6
2600	1.813	34.658	2.75	1.627	27.727	36.950	45.761	2.751	221.0	-0.36	0.018	1.59	0.454	2572.2
2800	1.730	34.664	2.88	1.527	27.738	36.967	45.783	2.845	246.9	-0.52	0.029	2.39	0.558	2768.7
3000	1.685	34.667	2.98	1.464	27.745	36.978	45.797	2.938	274.3	-0.22	0.009	0.96	0.353	2965.0
3200	1.608	34.672	3.10	1.370	27.756	36.994	45.818	3.030	303.5	-0.54	0.028	2.60	0.582	3161.1
3400	1.534	34.677	3.27	1.277	27.767	37.009	45.838	3.120	333.9	-0.50	0.025	2.38	0.556	3357.0
3600	1.464	34.682	3.45	1.188	27.777	37.024	45.858	3.208	365.4	-0.32	0.019	1.62	0.459	3552.8
3800	1.416	34.685	3.59	1.121	27.784	37.036	45.873	3.296	398.3	-0.31	0.017	1.61	0.457	3748.3
4000	1.402	34.688	3.71	1.085	27.789	37.042	45.881	3.382	432.8	-0.19	0.013	1.01	0.363	3943.7
4105	1.395	34.689	3.76	1.067	27.791	37.045	45.885	3.428	451.6	-0.20	0.012	1.01	0.000	4046.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	21.6	27.365	27.361	22.156	30.413	38.318	34.404	34.398	4.93	1.91	0.16	0.00	0.00			21	222222255
23	45.6	27.337	27.327	22.167	30.425	38.331	34.405	34.403	4.74	1.91	0.17	0.00	0.00			45	222222255
22	69.8	27.183	27.167	22.378	30.637	38.545	34.617	34.623	4.96	1.91	0.15	0.00	0.00			69	222222255
21	96.0	26.327	26.306	22.788	31.067	38.992	34.799	34.796	4.80	1.91	0.15	0.00	0.00			95	222222255
20	122.5	23.877	23.852	23.703	32.042	40.025	35.021	35.012	4.49	2.12	0.25	0.17	0.13			121	222222255
18	173.2	16.890	16.861	25.315	33.869	42.054	34.696	34.699	3.66	8.06	0.82	9.60	0.00			172	222222255
17	197.9	13.468	13.440	25.913	34.593	42.894	34.494	34.488	2.85	17.13	1.45	18.50	0.00			196	222222255
16	247.6	10.485	10.455	26.520	35.318	43.730	34.547	34.549	1.10	33.14	2.39	32.30	0.00			246	222222255
15	297.9	9.851	9.817	26.696	35.519	43.955	34.631	34.630	0.65	36.57	2.59	35.80	0.00			296	222222255
14	397.4	8.843	8.800	26.857	35.725	44.202	34.625	34.626	0.66	42.21	2.74	37.70	0.00			394	222222255
13	496.3	7.971	7.920	26.959	35.867	44.382	34.584	34.585	0.62	50.17	2.88	39.10	0.00			492	222222255
12	621.5	6.687	6.628	27.112	36.080	44.652	34.546	34.545	0.75	63.47	3.05	41.50	0.00			617	222222255
11	749.1	5.746	5.680	27.227	36.241	44.855	34.537	34.536	0.92	76.16	3.10	42.70	0.00			743	222222255
10	872.3	5.227	5.153	27.295	36.335	44.973	34.543	34.543	1.00	84.22	3.15	43.60	0.00			865	222222255
9	995.0	4.638	4.558	27.367	36.436	45.103	34.548	34.547	1.31	95.20	3.10	42.60	0.00			987	222222255
8	1499.8	3.040	2.932	27.568	36.721	45.466	34.594	34.593	1.91	129.15	2.98	41.80	0.00			1485	222222255
7	2000.3	2.149	2.010	27.680	36.883	45.674	34.637	34.638	2.42	146.98	2.85	40.30	0.00			1979	222222255
6	2250.3	1.998	1.840	27.701	36.913	45.713	34.647	34.649	2.59	150.00	2.84	40.10	0.00			2225	222222255
5	2502.9	1.851	1.673	27.722	36.943	45.751	34.657	34.657	2.72	153.63	2.80	39.80	0.00			2474	222222255
4	2752.7	1.765	1.566	27.734	36.961	45.774	34.662	34.663	2.84	154.13	2.74	39.20	0.00			2719	222222255
3	3003.6	1.684	1.463	27.746	36.978	45.798	34.667	34.669	2.98	153.43	2.72	38.90	0.00			2965	222222255
2	3508.2	1.492	1.225	27.772	37.018	45.850	34.679	34.681	3.38	151.41	2.62	37.80	0.00			3459	222222255
1	4107.0	1.395	1.068	27.791	37.045	45.885	34.689	34.691	3.79	143.05	2.54	36.39	0.01			4044	222222255

CRUISE: MW 893 STA: 80 DATE (D/M/Y): 3- 3-89 TIME: 1334 LAT: 9 36.82 N LONG: 170 24.98 E

GRAVITY= 9.7818 M/S CORIOLIS= 0.24356E-04 1/S SOUND SPEED= 1500.5 M/S Depth= 4231 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.556	34.476	4.03	27.556	22.147	30.398	38.299	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.556	34.476	4.03	27.556	22.147	30.398	38.299	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.608	34.460	5.01	27.603	22.120	30.371	38.270	0.114	0.1	0.06	-0.080	-1.92	-0.503	20.0
30	27.610	34.460	4.99	27.603	22.120	30.370	38.270	0.171	0.3	-0.70	-0.148	2.73	0.600	30.0
40	27.608	34.459	4.97	27.598	22.120	30.371	38.271	0.228	0.5	-0.68	-0.098	3.51	0.681	40.0
50	27.578	34.454	4.95	27.567	22.127	30.378	38.278	0.285	0.7	-3.30	-0.428	17.79	1.531	50.0
100	26.967	34.743	4.84	26.944	22.544	30.808	38.719	0.567	2.9	-81.90	13.612	852.74	10.603	100.0
125	23.953	35.021	4.45	23.927	23.681	32.018	39.999	0.684	4.2	-115.08	2.361	808.73	10.326	125.0
150	19.697	34.790	3.59	19.670	24.690	33.152	41.250	0.778	5.5	-178.96	-12.307	878.27	10.761	149.9
200	13.437	34.453	3.66	13.409	25.887	34.569	42.872	0.908	7.8	-94.71	-5.168	371.15	6.995	199.7
250	10.582	34.536	1.42	10.552	26.494	35.289	43.697	1.000	9.9	-29.22	3.538	192.02	5.032	249.5
300	9.814	34.642	0.89	9.780	26.710	35.535	43.973	1.073	12.0	-10.56	0.220	48.15	2.520	299.2
350	9.431	34.652	0.74	9.391	26.782	35.624	44.077	1.141	14.2	-8.10	-0.252	28.41	1.935	348.9
400	8.948	34.631	0.64	8.904	26.845	35.708	44.182	1.206	16.7	-14.00	-0.844	40.23	2.303	398.6
450	8.420	34.602	0.67	8.373	26.905	35.792	44.287	1.268	19.4	-12.03	-0.551	36.36	2.190	448.3
500	7.857	34.577	0.68	7.807	26.971	35.884	44.404	1.328	22.3	-9.80	-0.367	30.13	1.993	497.9
600	6.897	34.550	0.68	6.840	27.086	36.044	44.606	1.440	28.5	-8.23	-0.143	26.77	1.879	597.2
700	5.937	34.540	0.80	5.875	27.205	36.209	44.814	1.541	35.3	-9.58	-0.002	32.97	2.085	696.5
800	5.339	34.541	0.85	5.271	27.280	36.314	44.947	1.633	42.3	-4.84	0.018	16.36	1.469	795.6
900	4.894	34.545	1.14	4.820	27.335	36.392	45.046	1.719	49.8	-4.92	0.113	18.07	1.544	894.7
1000	4.463	34.556	1.18	4.384	27.393	36.471	45.145	1.800	57.6	-3.41	0.077	12.38	1.277	993.8
1200	3.836	34.573	1.48	3.745	27.472	36.583	45.288	1.950	74.4	-3.26	0.079	11.68	1.241	1191.8
1400	3.292	34.588	1.76	3.189	27.539	36.679	45.411	2.086	92.5	-3.09	0.108	11.51	1.232	1389.6
1600	2.673	34.609	2.03	2.561	27.612	36.785	45.548	2.208	111.0	-2.09	0.094	8.18	1.038	1587.1
1800	2.370	34.625	2.25	2.245	27.652	36.842	45.621	2.318	130.1	-1.51	0.088	6.33	0.913	1784.5
2000	2.111	34.640	2.45	1.973	27.686	36.890	45.683	2.421	150.1	-0.95	0.052	3.97	0.723	1981.7
2200	1.984	34.649	2.58	1.830	27.703	36.916	45.716	2.521	171.3	-0.70	0.039	3.01	0.630	2178.7
2400	1.902	34.654	2.68	1.732	27.715	36.933	45.738	2.617	194.0	-0.50	0.026	2.14	0.531	2375.6
2600	1.821	34.659	2.80	1.635	27.727	36.950	45.760	2.712	218.3	-0.41	0.020	1.76	0.482	2572.2
2800	1.765	34.662	2.89	1.562	27.735	36.962	45.776	2.807	244.3	-0.34	0.016	1.50	0.445	2768.7
3000	1.708	34.666	2.98	1.487	27.743	36.974	45.792	2.900	272.0	-0.38	0.017	1.70	0.473	2964.9
3200	1.646	34.670	3.10	1.407	27.752	36.988	45.810	2.993	301.3	-0.68	0.035	3.17	0.647	3161.1
3400	1.527	34.678	3.32	1.270	27.768	37.011	45.840	3.084	331.7	-0.55	0.028	2.64	0.590	3357.0
3600	1.470	34.681	3.46	1.194	27.776	37.023	45.857	3.172	363.2	-0.36	0.016	1.71	0.475	3552.7
3800	1.410	34.686	3.63	1.115	27.785	37.037	45.874	3.259	396.1	-0.30	0.019	1.56	0.454	3748.3
4000	1.390	34.689	3.78	1.074	27.790	37.044	45.884	3.345	430.3	-0.19	0.012	0.99	0.361	3943.7
4200	1.370	34.692	3.88	1.032	27.796	37.052	45.894	3.431	466.4	-0.21	0.015	0.99	0.000	4138.9
4241	1.367	34.693	3.90	1.025	27.797	37.053	45.895	3.449	474.0	-0.18	0.013	0.99	0.000	4178.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	27.576	27.574	22.127	30.379	38.279	34.458	34.461	4.80	1.61	0.19	0.10	0.00			6	222222255
23	97.2	26.806	26.783	22.639	30.906	38.820	34.801	34.757	4.81	1.71	0.20	0.10	0.00			96	222222255
22	145.5	20.278	20.251	24.570	33.014	41.095	34.833	34.929	3.88	4.33	0.51	4.40	0.10			144	222222255
21	197.4	13.890	13.861	25.818	34.482	42.769	34.484	34.527	3.52	12.79	1.11	14.00	0.00			196	222222255
20	247.7	10.560	10.530	26.502	35.297	43.706	34.541	34.515	1.37	30.83	2.25	30.30	0.00			246	222222255
19	297.5	9.771	9.737	26.720	35.547	43.986	34.645	34.642	0.63	36.97	2.58	36.00	0.00			295	222222255
18	396.9	9.001	8.958	26.841	35.702	44.173	34.637	34.637	0.60	40.90	2.73	37.70	0.00			394	222222255
17	498.0	8.103	8.052	26.942	35.844	44.353	34.587	34.589	0.64	48.66	2.82	38.50	0.00			494	222222255
16	621.2	6.845	6.787	27.093	36.053	44.618	34.549	34.548	0.70	62.26	3.00	41.00	0.00			616	222222255
15	747.8	5.855	5.789	27.211	36.220	44.829	34.534	34.541	0.86	74.65	3.11	42.80	0.00			742	222222255
14	995.7	4.584	4.504	27.373	36.445	45.114	34.548	34.551	1.27	96.11	3.08	42.70	0.00			987	222222255
13	1249.0	3.715	3.621	27.484	36.601	45.312	34.572	34.573	1.57	113.74	3.07	42.60	0.00			1238	222222255
12	1498.8	2.958	2.851	27.577	36.735	45.484	34.597	34.596	1.91	130.36	2.96	41.60	0.00			1485	222222255
11	1748.2	2.396	2.275	27.647	36.835	45.613	34.622	34.621	2.20	143.15	2.88	40.70	0.00			1731	222222255
9	2249.6	1.960	1.803	27.708	36.922	45.723	34.652	34.650	2.57	152.12	2.83	40.00	0.00			2224	222222255
8	2501.2	1.843	1.666	27.723	36.945	45.753	34.658	34.659	2.72	153.02	2.78	39.20	0.00			2472	222222255
7	2752.7	1.770	1.571	27.734	36.961	45.774	34.663	34.662	2.84	153.93	2.77	39.00	0.00			2719	222222255
6	3003.3	1.696	1.475	27.745	36.977	45.795	34.667	34.668	2.96	154.33	2.75	38.70	0.00			2965	222222255
5	3253.4	1.580	1.337	27.761	37.000	45.826	34.675	34.676	3.18	152.52	2.69	38.10	0.00		-0.003	3210	222222252
4	3505.4	1.488	1.222	27.773	37.019	45.851	34.680	34.682	3.42	150.30	2.62	37.50	0.00	0.004	0.014	3456	222222222
3	3752.9	1.417	1.127	27.784	37.035	45.872	34.685	34.686	3.61	147.28		36.90	0.00	0.016	0.014	3698	222252222
2	4006.4	1.388	1.072	27.791	37.045	45.885	34.690	34.690	3.77	143.35	2.57	36.00	0.00	0.006	0.000	3946	222222225
1	4242.0	1.367	1.026	27.796	37.052	45.895	34.692	34.694	3.90	139.93	2.48	35.90	0.00	-0.008	0.002	4176	222222222

CRUISE: MW 893 STA: 81 DATE (D/M/Y): 3- 3-89 TIME: 1853 LAT: 9 29.79 N LONG: 170 50.00 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24062E-04 1/S SOUND SPEED= 1497.4 M/S Depth= 3693 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.577	34.525	4.42	27.577	22.177	30.428	38.327	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.577	34.525	4.42	27.577	22.177	30.428	38.327	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.603	34.510	5.18	27.598	22.159	30.409	38.308	0.113	0.1	-0.57	-0.340	-1.70	-0.476	20.0
30	27.602	34.508	5.19	27.595	22.158	30.409	38.308	0.170	0.3	0.19	0.072	-0.19	-0.161	30.0
40	27.609	34.510	5.19	27.599	22.158	30.408	38.307	0.227	0.5	0.02	-0.019	-0.48	-0.254	40.0
50	27.613	34.510	5.19	27.601	22.158	30.408	38.307	0.284	0.7	-0.61	-0.079	3.27	0.661	50.0
100	26.132	34.849	4.49	26.109	22.887	31.170	39.100	0.559	2.8	-100.14	5.927	833.13	10.544	100.0
125	22.978	34.964	4.30	22.953	23.922	32.286	40.293	0.673	4.1	-118.68	0.003	828.91	10.518	124.9
150	19.617	34.873	3.80	19.590	24.774	33.238	41.338	0.766	5.4	-176.30	-10.876	942.66	11.216	149.9
200	13.581	34.475	3.32	13.553	25.875	34.551	42.849	0.897	7.7	-121.91	-7.561	451.19	7.760	199.7
250	10.277	34.509	1.40	10.248	26.526	35.333	43.754	0.987	9.8	-2.28	7.470	146.54	4.422	249.4
300	9.698	34.643	0.91	9.664	26.730	35.560	44.002	1.060	11.8	-13.07	0.862	69.22	3.039	299.2
350	9.172	34.637	0.77	9.133	26.812	35.666	44.129	1.126	14.0	-9.19	-0.428	28.75	1.959	348.9
400	8.740	34.618	0.71	8.697	26.867	35.740	44.222	1.190	16.5	-9.32	-0.516	26.90	1.895	398.6
450	8.364	34.598	0.72	8.317	26.911	35.800	44.298	1.252	19.2	-10.57	-0.457	31.97	2.066	448.3
500	7.933	34.580	0.71	7.882	26.962	35.872	44.388	1.312	22.1	-9.39	-0.355	28.54	1.952	497.9
600	6.902	34.549	0.71	6.845	27.085	36.043	44.605	1.424	28.3	-10.33	-0.206	32.81	2.093	597.2
700	5.946	34.540	0.77	5.884	27.204	36.207	44.812	1.525	35.0	-7.79	-0.008	26.32	1.874	696.4
800	5.318	34.543	0.93	5.251	27.284	36.319	44.953	1.617	42.1	-6.59	0.154	24.29	1.800	795.6
900	4.758	34.550	1.12	4.685	27.355	36.418	45.078	1.702	49.4	-3.26	0.081	11.82	1.256	894.7
1000	4.439	34.556	1.30	4.360	27.395	36.474	45.150	1.782	57.1	-3.85	0.072	13.25	1.330	993.8
1200	3.780	34.571	1.60	3.689	27.477	36.590	45.298	1.930	73.7	-3.30	0.106	12.11	1.271	1191.8
1400	3.118	34.590	1.89	3.018	27.557	36.705	45.446	2.063	91.3	-2.63	0.082	9.49	1.125	1389.5
1600	2.687	34.609	2.10	2.575	27.611	36.783	45.545	2.183	109.7	-1.94	0.086	7.48	0.999	1587.1
1800	2.358	34.625	2.30	2.233	27.652	36.843	45.623	2.295	129.0	-1.70	0.085	6.78	0.951	1784.5
2000	2.165	34.638	2.47	2.026	27.680	36.881	45.672	2.399	149.2	-1.02	0.049	4.09	0.738	1981.7
2200	1.982	34.648	2.59	1.829	27.703	36.915	45.716	2.498	170.5	-0.69	0.040	2.95	0.627	2178.7
2400	1.893	34.656	2.72	1.724	27.717	36.935	45.741	2.594	193.1	-0.45	0.031	2.03	0.521	2375.5
2600	1.817	34.660	2.82	1.631	27.728	36.951	45.762	2.689	217.3	-0.41	0.017	1.69	0.474	2572.2
2800	1.761	34.663	2.94	1.558	27.736	36.963	45.777	2.784	243.2	-0.33	0.018	1.47	0.442	2768.7
3000	1.693	34.667	3.01	1.472	27.745	36.977	45.795	2.877	270.9	-0.53	0.024	2.32	0.557	2964.9
3200	1.615	34.672	3.16	1.377	27.755	36.993	45.816	2.969	300.0	-0.46	0.027	2.19	0.540	3161.0
3400	1.523	34.678	3.38	1.267	27.768	37.012	45.841	3.059	330.3	-0.52	0.028	2.49	0.576	3357.0
3600	1.480	34.681	3.52	1.204	27.775	37.022	45.855	3.148	361.9	-0.24	0.013	1.16	0.394	3552.7
3703	1.463	34.683	3.55	1.177	27.778	37.027	45.861	3.193	378.8	-0.35	0.019	1.16	0.000	3653.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.0	27.605	27.607	22.160	30.410	38.308	34.514	34.513	4.98	2.01	0.20	-0.01	0.01			1	222222255
23	44.6	27.600	27.589	22.164	30.414	38.313	34.513	34.512	4.77	2.01	0.23	-0.01	0.01			44	222222255
22	71.7	27.240	27.223	22.559	30.814	38.718	34.882	34.871	4.50	2.72	0.38	1.99	0.31			71	222222255
21	95.6	23.801	23.781	23.663	32.005	39.991	34.942	34.947	4.33	2.42	0.31	0.59	0.11			95	222222255
20	146.1	18.097	18.071	25.111	33.624	41.770	34.812	34.792	3.55	6.65	0.78	8.29	0.01			145	222222255
19	197.8	12.322	12.296	26.043	34.769	43.113	34.369	34.389	3.60	17.23	1.32	16.79	0.01			196	222222255
18	249.1	10.304	10.275	26.598	35.403	43.821	34.607	34.568	0.94	33.65	2.46	32.99	0.01			247	222222255
17	297.0	9.650	9.616	26.741	35.573	44.017	34.646	34.643	0.59	37.27	2.62	36.29	0.01			295	222222255
16	347.5	9.265	9.227	26.799	35.648	44.108	34.639	34.647	0.59	39.39	2.69	37.09	0.01			345	222222255
15	398.6	8.908	8.865	26.848	35.713	44.188	34.628	34.624	0.62	41.91	2.75	37.69	0.01			395	222222255
14	496.5	7.962	7.911	26.959	35.867	44.382	34.582	34.580	0.69	50.17	2.85	38.79	0.01	0.032	0.023	493	222222222
13	597.0	6.966	6.910	27.076	36.031	44.590	34.549	34.547	0.69	60.95	3.00	40.89	0.01	-0.009	0.008	592	222222222
12	696.3	5.960	5.898	27.200	36.203	44.807	34.537	34.536	0.78	73.24	3.13	42.89	0.01	-0.008	-0.003	691	222222222
11	797.4	5.238	5.171	27.292	36.331	44.969	34.542	34.543	0.98	83.61	3.13	43.29	0.01		0.003	791	222222252
10	898.5	4.626	4.554	27.372	36.441	45.108	34.553	34.550	1.18	94.70	3.14	43.39	0.01	0.004	-0.003	891	222222222
9	998.9	4.239	4.161	27.419	36.509	45.194	34.560	34.559	1.40	102.25	3.12	42.89	0.01		-0.003	990	222222252
8	1196.4	3.751	3.661	27.482	36.597	45.307	34.575	34.573	1.59		3.09	42.49	0.01	-0.008	-0.003	1186	222522222
7	1399.3	3.046	2.946	27.567	36.720	45.464	34.596	34.597	1.88	128.95	2.99	41.79	0.01	-0.011	-0.003	1386	222222222
6	1600.9	2.653	2.541	27.615	36.789	45.553	34.610	34.611	2.09	137.91	2.94	41.39	0.01	-0.005	-0.003	1585	222222222
5	1747.3	2.472	2.350	27.639	36.823	45.597	34.620	34.618	2.18	141.84	2.89	41.09	0.01			1730	222222255
4	2252.5	1.967	1.810	27.705	36.919	45.720	34.649	34.648	2.56	152.62	2.82	40.10	0.00			2227	222222255
3	2751.4	1.778	1.579	27.734	36.959	45.773	34.662	34.661	2.82	154.03	2.75	39.30	0.00			2718	222222255
2	3254.6	1.591	1.348	27.758	36.997	45.823	34.673	34.674	3.16	154.23	2.64	38.30	0.00			3211	222222255
1	3706.8	1.463	1.177	27.777	37.026	45.860	34.681	34.683	3.56	149.50	2.58	37.20	0.00			3653	222222255

CRUISE: MW 893 STA: 82 DATE (D/M/Y): 4- 3-89 TIME: 0100 LAT: 9 29.30 N LONG: 171 19.90 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24042E-04 1/S SOUND SPEED= 1503.8 M/S Depth= 4786 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.793	33.847	4.56	27.793	21.597	29.850	37.751	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.793	33.847	4.56	27.793	21.597	29.850	37.751	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.678	34.448	5.22	27.674	22.088	30.337	38.235	0.116	0.1	-2.11	0.047	16.87	1.501	20.0
30	27.669	34.449	5.24	27.662	22.092	30.342	38.240	0.173	0.3	-0.28	0.021	2.47	0.574	30.0
40	27.669	34.449	5.21	27.660	22.093	30.343	38.241	0.231	0.5	-0.43	0.027	3.74	0.707	40.0
50	27.666	34.450	5.20	27.654	22.096	30.345	38.244	0.288	0.7	-0.78	0.556	15.74	1.450	50.0
100	23.919	34.813	4.08	23.898	23.531	31.872	39.856	0.540	2.6	-79.06	5.382	648.00	9.303	100.0
125	22.072	35.048	3.55	22.047	24.243	32.632	40.661	0.641	3.8	-116.68	-6.112	656.52	9.364	124.9
150	18.709	34.796	2.83	18.682	24.947	33.441	41.568	0.726	5.0	-153.57	-10.741	722.13	9.821	149.8
200	12.875	34.421	2.48	12.848	25.975	34.679	43.002	0.848	7.1	-70.07	-3.092	276.78	6.080	199.6
250	10.153	34.358	1.40	10.124	26.430	35.245	43.672	0.940	9.2	-21.18	3.369	151.23	4.494	249.4
300	9.609	34.508	1.03	9.575	26.639	35.475	43.923	1.017	11.4	-10.10	2.718	91.09	3.488	299.1
350	8.790	34.582	0.88	8.752	26.831	35.701	44.181	1.085	13.7	-19.00	-0.724	60.40	2.840	348.8
400	8.289	34.571	0.88	8.247	26.900	35.793	44.294	1.148	16.0	-3.21	0.897	28.66	1.956	398.5
450	7.954	34.559	1.02	7.908	26.941	35.850	44.366	1.208	18.6	-11.20	-1.017	23.04	1.754	448.2
500	7.429	34.543	1.08	7.380	27.005	35.938	44.477	1.266	21.5	-11.53	-0.135	39.25	2.290	497.9
600	6.705	34.549	0.59	6.649	27.112	36.079	44.650	1.374	27.5	-7.77	-0.148	24.30	1.801	597.2
700	6.003	34.542	0.86	5.941	27.198	36.199	44.802	1.474	34.1	-5.96	0.032	20.51	1.655	696.4
800	5.418	34.539	1.11	5.350	27.269	36.299	44.928	1.567	41.2	-5.43	0.079	19.13	1.598	795.6
900	4.862	34.548	1.24	4.789	27.341	36.399	45.054	1.653	48.7	-5.22	0.065	17.80	1.542	894.7
1000	4.396	34.555	1.41	4.317	27.399	36.481	45.158	1.733	56.4	-4.39	0.128	15.95	1.459	993.7
1200	3.667	34.576	1.63	3.577	27.492	36.612	45.325	1.878	72.7	-3.11	0.098	11.20	1.223	1191.7
1400	3.102	34.595	1.86	3.002	27.562	36.711	45.453	2.008	89.9	-2.22	0.084	8.24	1.049	1389.5
1600	2.743	34.610	2.04	2.630	27.607	36.776	45.536	2.128	108.2	-1.62	0.066	6.10	0.903	1587.1
1800	2.423	34.624	2.21	2.297	27.647	36.834	45.610	2.240	127.6	-1.30	0.067	5.24	0.837	1784.5
2000	2.213	34.634	2.35	2.074	27.672	36.871	45.659	2.346	148.2	-0.96	0.052	3.99	0.730	1981.7
2200	2.076	34.645	2.49	1.921	27.693	36.900	45.696	2.448	170.0	-0.97	0.054	4.11	0.741	2178.7
2400	1.910	34.654	2.62	1.741	27.714	36.932	45.737	2.546	193.1	-0.73	0.035	3.05	0.638	2375.5
2600	1.808	34.660	2.76	1.623	27.728	36.952	45.763	2.641	217.3	-0.38	0.018	1.62	0.465	2572.1
2800	1.746	34.664	2.87	1.543	27.738	36.966	45.781	2.735	243.2	-0.38	0.019	1.68	0.473	2768.6
3000	1.702	34.667	2.97	1.480	27.745	36.976	45.794	2.829	270.8	-0.26	0.012	1.14	0.390	2964.9
3200	1.641	34.671	3.08	1.401	27.753	36.989	45.812	2.921	300.1	-0.26	0.012	1.18	0.397	3161.0
3400	1.608	34.674	3.19	1.349	27.759	36.998	45.823	3.013	331.1	-0.38	0.020	1.80	0.490	3356.9
3600	1.559	34.678	3.33	1.281	27.767	37.010	45.838	3.104	363.6	-0.22	0.011	1.06	0.377	3552.7
3800	1.503	34.681	3.45	1.206	27.775	37.022	45.855	3.195	397.9	-0.51	0.031	2.57	0.586	3748.3
4000	1.436	34.686	3.64	1.119	27.785	37.037	45.874	3.284	433.3	-0.37	0.020	1.87	0.499	3943.7
4200	1.395	34.691	3.84	1.057	27.793	37.048	45.888	3.372	469.9	-0.23	0.016	1.26	0.410	4138.9
4400	1.385	34.693	3.95	1.025	27.797	37.053	45.896	3.459	508.2	-0.13	0.008	0.68	0.302	4334.0
4600	1.389	34.694	4.02	1.005	27.799	37.057	45.900	3.547	548.6	-0.16	0.010	0.86	0.338	4528.9
4797	1.353	34.697	4.16	0.948	27.806	37.067	45.913	3.634	590.2	-0.37	0.022	0.86	0.000	4720.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.2	27.711	27.709	22.086	30.334	38.231	34.460	34.460	5.00	2.01	0.23	0.10	0.00			6	222222255
23	95.6	22.860	22.841	23.909	32.277	40.287	34.905	34.902	4.04	4.03	0.50	3.82	0.18			95	222222255
22	145.9	17.215	17.191	25.251	33.794	41.968	34.715	34.716	3.49	8.06	0.87	10.17	0.03			145	222222255
21	196.6	11.847	11.822	26.159	34.903	43.265	34.402	34.401	2.83	21.86	1.65	21.40	0.00			195	222222255
20	245.9	10.147	10.118	26.525	35.338	43.764	34.478	34.477	1.37	34.05	2.34	31.30	0.00			244	222222255
19	296.4	9.443	9.410	26.724	35.566	44.019	34.581	34.578	0.80	39.09	2.59	35.40	0.00			294	222222255
18	398.7	8.159	8.118	26.925	35.824	44.331	34.578	34.575	0.85	47.75	2.79	38.00	0.00			396	222222255
17	497.1	7.261	7.213	27.027	35.968	44.514	34.540	34.541	1.00	56.72	2.85	39.00	0.00			493	222222255
16	617.2	6.260	6.204	27.163	36.151	44.742	34.540	34.537	0.89	68.10	3.03	41.70	0.00			612	222222255
15	746.8	5.441	5.377	27.261	36.290	44.918	34.534	34.532	1.17	80.59	3.07	42.20	0.00			741	222222255
14	998.8	4.335	4.257	27.409	36.493	45.174	34.560	34.557	1.35	100.44	3.09	42.90	0.00	0.014	0.006	990	222222222
13	1249.0	3.420	3.329	27.525	36.657	45.383	34.587	34.580	1.69	119.28	3.04	42.30	0.00		0.027	1238	222222252
12	1497.3	2.875	2.769	27.586	36.748	45.501	34.599	34.602	1.98	131.37	2.96	41.50	0.00	-0.012	0.008	1483	222222222
11	1798.4	2.438	2.312	27.646	36.832	45.608	34.625	34.622	2.22	141.84	2.91	41.00	0.00			1780	222222255
10	2102.0	2.142	1.995	27.685	36.888	45.680	34.641	34.640	2.45	147.79	2.86	40.30	0.00	0.000		2079	222222255
9	2400.2	1.930	1.760	27.713	36.929	45.733	34.654	34.653	2.63	152.02	2.80	39.80	0.00			2373	222222255
8	2703.1	1.794	1.599	27.732	36.957	45.769	34.662	34.662	2.82	153.93	2.75	39.40	0.00	0.003	0.014	2670	222222222
7	3006.4	1.704	1.482	27.745	36.976	45.794	34.668	34.668	2.98	153.33	2.73	38.90	0.00	-0.005	-0.003	2968	222222222
6	3301.3	1.630	1.381	27.756	36.993	45.817	34.673	34.672	3.16	153.12	2.68	38.60	0.00	-0.002	0.014	3257	222222222
5	3604.4	1.550	1.272	27.768	37.011	45.840	34.678	34.678	3.34	150.30	2.62	37.90	0.00		0.009	3553	222222252
4	3905.4	1.456	1.149	27.783	37.032	45.868	34.686	34.684	3.56	147.38	2.58	37.00	0.00	0.005	0.020	3847	222222222
3	4203.8	1.394	1.056	27.793	37.048	45.888	34.690	34.691	3.82	141.24	2.49	36.10	0.00	0.010		4139	222222225
2	4505.9	1.382	1.010	27.799	37.056	45.899	34.694	34.695	3.97	138.22	2.47	35.80	0.00	0.006	0.003	4433	222222222
1	4799.0	1.355	0.950	27.805	37.066	45.912	34.697	34.698	4.13	133.98	2.44	35.19	0.01	0.006		4718	222222225

CRUISE: MW 893 STA: 85 DATE (D/M/Y): 9- 3-89 TIME: 1440 LAT: 9 32.16 N LONG: 171 21.13 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24161E-04 1/S SOUND SPEED= 1503.9 M/S Depth= 4832 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.637	34.328	5.70	27.637	22.009	30.260	38.160	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.637	34.328	5.70	27.637	22.009	30.261	38.160	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.667	34.377	5.15	27.663	22.038	30.288	38.187	0.116	0.1	0.54	0.306	1.33	0.421	20.0
30	27.670	34.378	4.97	27.663	22.039	30.289	38.188	0.174	0.3	-0.07	0.022	0.94	0.353	30.0
40	27.673	34.379	4.93	27.664	22.039	30.289	38.188	0.231	0.5	-0.17	0.064	2.47	0.573	40.0
50	27.677	34.382	4.83	27.665	22.041	30.291	38.189	0.289	0.7	0.46	0.499	5.34	0.842	50.0
100	25.042	34.858	4.68	25.020	23.230	31.540	39.496	0.568	2.8	-133.60	7.729	1096.45	12.072	100.0
125	21.753	34.792	4.02	21.728	24.137	32.538	40.579	0.673	4.1	-133.33	-1.356	824.67	10.469	124.9
150	17.846	34.788	3.43	17.820	25.155	33.677	41.830	0.757	5.2	-183.97	-12.952	825.32	10.473	149.9
200	11.703	34.386	2.79	11.677	26.174	34.924	43.292	0.870	7.2	-62.71	-2.551	240.33	5.652	199.7
250	10.212	34.437	1.61	10.183	26.481	35.292	43.717	0.956	9.2	-15.78	3.506	130.12	4.159	249.4
300	9.507	34.573	0.80	9.473	26.707	35.546	43.997	1.030	11.3	-14.73	0.020	59.80	2.819	299.1
350	8.735	34.556	0.83	8.697	26.818	35.692	44.175	1.097	13.5	-14.12	-0.067	53.52	2.667	348.9
400	8.106	34.549	0.96	8.065	26.910	35.812	44.321	1.159	15.9	-11.67	-0.516	34.22	2.133	398.5
450	7.502	34.536	1.10	7.457	26.989	35.919	44.454	1.218	18.4	-9.42	0.133	36.76	2.210	448.2
500	7.100	34.536	1.11	7.053	27.046	35.994	44.547	1.274	21.1	-10.16	-0.046	35.08	2.159	497.9
600	6.310	34.538	0.87	6.256	27.155	36.141	44.729	1.377	26.9	-7.33	-0.012	24.98	1.822	597.2
700	5.753	34.541	0.86	5.692	27.229	36.242	44.856	1.472	33.2	-5.16	0.006	17.32	1.517	696.4
800	5.176	34.537	1.29	5.110	27.296	36.338	44.978	1.562	40.1	-5.96	0.074	20.73	1.660	795.6
900	4.683	34.551	1.29	4.611	27.363	36.430	45.094	1.646	47.3	-4.72	0.092	16.64	1.487	894.7
1000	4.266	34.561	1.41	4.188	27.417	36.505	45.189	1.724	54.9	-3.97	0.099	14.10	1.369	993.7
1200	3.534	34.580	1.77	3.446	27.508	36.634	45.354	1.867	70.8	-3.05	0.095	11.07	1.213	1191.7
1400	3.084	34.596	1.99	2.983	27.564	36.715	45.457	1.996	88.0	-2.50	0.095	9.35	1.115	1389.5
1600	2.730	34.610	2.20	2.617	27.608	36.778	45.539	2.115	106.1	-1.46	0.059	5.52	0.856	1587.1
1800	2.451	34.623	2.35	2.325	27.644	36.829	45.604	2.227	125.6	-1.43	0.067	5.65	0.867	1784.4
2000	2.231	34.635	2.48	2.091	27.672	36.870	45.657	2.333	146.2	-0.92	0.045	3.69	0.700	1981.6
2200	2.055	34.645	2.66	1.901	27.695	36.904	45.701	2.435	168.0	-0.60	0.035	2.62	0.590	2178.7
2400	1.973	34.651	2.70	1.802	27.707	36.921	45.723	2.534	191.2	-0.68	0.033	2.84	0.614	2375.5
2600	1.878	34.657	2.81	1.691	27.721	36.940	45.748	2.631	216.0	-0.35	0.022	1.58	0.459	2572.1
2800	1.805	34.662	2.92	1.601	27.731	36.956	45.768	2.727	242.5	-0.38	0.018	1.65	0.469	2768.6
3000	1.745	34.665	2.99	1.523	27.740	36.969	45.785	2.822	270.6	-0.41	0.019	1.84	0.494	2964.9
3200	1.698	34.669	3.10	1.457	27.747	36.980	45.800	2.917	300.4	-0.43	0.019	1.91	0.503	3161.0
3400	1.614	34.673	3.22	1.355	27.759	36.997	45.822	3.010	331.6	-0.37	0.019	1.77	0.485	3356.9
3600	1.553	34.677	3.33	1.275	27.767	37.010	45.839	3.101	364.4	-0.41	0.019	1.93	0.506	3552.7
3800	1.500	34.681	3.49	1.203	27.775	37.022	45.855	3.192	398.6	-0.42	0.022	2.09	0.527	3748.3
4000	1.451	34.685	3.66	1.133	27.783	37.034	45.870	3.281	434.1	-0.37	0.024	1.95	0.509	3943.7
4200	1.395	34.690	3.86	1.057	27.793	37.048	45.888	3.369	470.9	-0.33	0.023	1.81	0.490	4138.9
4400	1.369	34.693	4.01	1.010	27.798	37.056	45.899	3.456	509.1	-0.21	0.014	1.15	0.391	4334.0
4600	1.352	34.696	4.13	0.970	27.803	37.063	45.908	3.543	549.0	-0.28	0.016	1.52	0.450	4528.8
4800	1.306	34.700	4.32	0.902	27.811	37.074	45.923	3.630	590.4	-0.43	0.025	1.52	0.000	4723.6
4839	1.296	34.701	4.36	0.887	27.812	37.077	45.926	3.646	598.6	-0.48	0.025	1.52	0.000	4761.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.8	27.678	27.677	22.056	30.306	38.204	34.407	34.211	4.93	1.91	0.13	0.00	0.00			7	222222255
23	48.0	27.687	27.675	22.060	30.309	38.208	34.411	34.408	4.93	1.91	0.19	0.00	0.00			47	222222255
22	98.4	24.178	24.158	23.534	31.866	39.842	34.917		4.54	2.11	0.24	0.46	0.04			97	252222255
21	145.9	17.382	17.357	25.224	33.762	41.930	34.732	34.756	3.59	7.15	0.78	9.27	0.03			145	222222255
20	196.2	12.528	12.502	26.026	34.743	43.080	34.398	34.419	2.86	19.03	1.48	20.20	0.00			195	222222255
19	245.3	10.541	10.512	26.341	35.140	43.553	34.331	34.329	2.69	27.59	1.79	24.40	0.00			243	222222255
18	296.6	9.642	9.608	26.651	35.485	43.931	34.529	34.523	1.16	36.95	2.43	33.40	0.00			294	222222255
17	346.5	8.915	8.878	26.803	35.669	44.144	34.573	34.570	0.85	42.19	2.59	36.20	0.00			344	222222255
16	396.2	8.452	8.410	26.875	35.761	44.255	34.571	34.576	0.91	45.61	2.67	37.10	0.00			393	222222255
15	496.2	7.443	7.395	27.001	35.933	44.471	34.540	34.542		47.93	2.69	38.10	0.00			492	225222255
13	797.0	5.334	5.266	27.279	36.313	44.946	34.540	34.539	1.06	81.46	3.02	43.40	0.00			790	222222255
12	996.8	4.244	4.166	27.419	36.508	45.193	34.560	34.556	1.43	103.01	3.12	43.20	0.00			988	222222255
11	1246.7	3.383	3.292	27.525	36.659	45.387	34.583	34.582	1.81	121.43	2.98	42.60	0.00			1235	222222255
10	1494.8	2.885	2.779	27.587	36.748	45.501	34.601	34.600	2.07	132.61	3.04	41.90	0.00			1481	222222255
9	1999.6	2.198	2.059	27.677	36.876	45.665	34.638	34.636	2.46	147.41	2.85	41.00	0.00			1978	222222255
8	2499.1	1.904	1.726	27.717	36.935	45.741	34.656	34.656	2.74	153.05	2.81	40.00	0.00			2470	222222255
7	3001.8	1.738	1.516	27.742	36.971	45.787	34.667	34.664	2.98	153.25	2.76	39.30	0.00			2963	222222255
6	3551.7	1.572	1.299	27.765	37.006	45.834	34.676	34.675	3.32	153.96	2.66	38.50	0.00			3502	222222255
5	3754.1	1.515	1.222	27.774	37.019	45.851	34.681	34.680	3.49	150.93	2.62	37.60	0.00			3700	222222255
4	4003.2	1.451	1.133	27.783	37.034	45.870	34.685	34.683	3.65	147.91	2.55	37.20	0.00			3943	222222255
3	4254.5	1.385	1.041	27.794	37.050	45.891	34.691	34.691	3.94	141.37	2.50	36.30	0.00			4188	222222255
2	4506.7	1.361	0.990	27.801	37.059	45.903	34.695	34.696	4.02	136.94	2.48	35.69	0.01			4434	222222255
1	4840.4	1.295	0.887	27.812	37.077	45.926	34.701	34.701		130.70	2.43	34.69	0.01			4759	225222255

CRUISE: MW 893 STA: 86 DATE (D/M/Y): 9- 3-89 TIME: 2302 LAT: 9 29.55 N LONG: 172 0.01 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1504.5 M/S Depth= 4924 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.707	34.436	3.98	27.707	22.068	30.316	38.214	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.707	34.436	3.98	27.707	22.068	30.316	38.214	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.691	34.432	4.68	27.687	22.071	30.320	38.218	0.115	0.1	-0.60	-0.007	4.44	0.770	20.0
30	27.690	34.432	4.68	27.683	22.073	30.322	38.220	0.173	0.3	-0.25	0.022	2.28	0.552	30.0
40	27.691	34.432	4.69	27.682	22.073	30.322	38.220	0.230	0.5	-0.05	0.071	1.62	0.466	40.0
50	27.693	34.433	4.63	27.681	22.074	30.323	38.221	0.288	0.7	-0.02	0.135	2.51	0.579	50.0
100	23.842	34.868	4.34	23.822	23.596	31.938	39.923	0.553	2.7	-113.63	4.746	883.32	10.860	100.0
125	21.452	34.825	3.72	21.427	24.246	32.655	40.703	0.652	3.9	-122.07	-5.893	658.58	9.377	124.9
150	17.774	34.731	3.22	17.749	25.129	33.653	41.810	0.735	5.0	-165.64	-9.206	822.55	10.479	149.9
200	12.535	34.460	1.92	12.509	26.072	34.789	43.124	0.855	7.1	-83.95	-3.696	329.61	6.634	199.6
250	10.408	34.497	1.06	10.379	26.494	35.296	43.712	0.943	9.2	-19.00	3.077	135.85	4.259	249.4
300	9.748	34.554	0.86	9.714	26.652	35.481	43.923	1.018	11.3	-10.93	0.386	51.60	2.625	299.1
350	9.039	34.592	0.75	9.001	26.799	35.658	44.128	1.088	13.6	-15.27	-0.250	56.48	2.746	348.8
400	8.563	34.581	0.84	8.521	26.866	35.747	44.237	1.152	16.0	-13.66	-0.731	39.14	2.286	398.5
450	7.927	34.558	0.96	7.881	26.945	35.855	44.372	1.212	18.6	-11.79	-0.814	28.96	1.966	448.2
500	7.495	34.537	1.08	7.445	26.992	35.922	44.458	1.270	21.5	-7.49	0.004	27.18	1.905	497.9
600	6.544	34.530	1.08	6.489	27.118	36.093	44.671	1.379	27.5	-7.99	-0.019	27.49	1.916	597.2
700	5.724	34.525	1.13	5.663	27.220	36.235	44.850	1.478	34.1	-7.20	0.054	25.12	1.831	696.4
800	5.292	34.537	1.17	5.224	27.282	36.318	44.954	1.569	41.0	-5.28	0.096	18.63	1.577	795.6
900	4.677	34.544	1.42	4.605	27.358	36.426	45.090	1.653	48.3	-5.38	0.128	19.41	1.610	894.7
1000	4.277	34.557	1.49	4.199	27.413	36.500	45.184	1.731	55.9	-4.00	0.109	14.35	1.384	993.7
1200	3.585	34.578	1.69	3.496	27.501	36.625	45.342	1.875	72.0	-3.36	0.102	12.03	1.267	1191.7
1400	3.056	34.597	1.88	2.956	27.567	36.719	45.463	2.003	89.0	-2.26	0.077	8.18	1.045	1389.5
1600	2.658	34.609	2.09	2.546	27.613	36.787	45.551	2.121	107.0	-1.87	0.063	6.79	0.952	1587.1
1800	2.349	34.628	2.28	2.224	27.655	36.846	45.627	2.231	126.0	-1.30	0.080	5.44	0.852	1784.4
2000	2.128	34.639	2.39	1.990	27.683	36.887	45.679	2.334	146.0	-0.94	0.050	3.83	0.715	1981.6
2200	1.980	34.650	2.55	1.827	27.705	36.917	45.718	2.433	167.2	-0.63	0.047	2.88	0.620	2178.7
2400	1.874	34.656	2.65	1.705	27.719	36.938	45.745	2.529	189.7	-0.52	0.024	2.14	0.535	2375.5
2600	1.788	34.662	2.76	1.603	27.731	36.956	45.768	2.623	213.8	-0.46	0.022	1.95	0.510	2572.1
2800	1.723	34.666	2.86	1.521	27.741	36.970	45.786	2.716	239.4	-0.44	0.022	1.93	0.507	2768.6
3000	1.657	34.670	3.01	1.437	27.750	36.984	45.804	2.808	266.6	-0.42	0.020	1.87	0.500	2964.9
3200	1.607	34.673	3.11	1.368	27.758	36.995	45.819	2.899	295.3	-0.26	0.013	1.18	0.397	3161.0
3400	1.570	34.676	3.23	1.313	27.764	37.004	45.832	2.990	325.8	-0.28	0.014	1.30	0.417	3356.9
3600	1.532	34.679	3.36	1.255	27.770	37.014	45.844	3.080	358.0	-0.30	0.016	1.46	0.442	3552.7
3800	1.499	34.682	3.45	1.201	27.776	37.023	45.856	3.170	391.9	-0.26	0.013	1.30	0.416	3748.2
4000	1.460	34.686	3.61	1.142	27.783	37.033	45.869	3.259	427.4	-0.31	0.018	1.61	0.464	3943.6
4200	1.429	34.689	3.76	1.090	27.789	37.042	45.881	3.348	464.5	-0.19	0.011	1.01	0.367	4138.9
4400	1.407	34.691	3.88	1.047	27.794	37.050	45.891	3.436	503.4	-0.23	0.015	1.26	0.410	4333.9
4600	1.396	34.694	4.01	1.013	27.798	37.056	45.898	3.525	544.1	-0.19	0.012	1.04	0.373	4528.8
4800	1.371	34.697	4.19	0.965	27.804	37.064	45.909	3.614	586.6	-0.38	0.023	2.10	0.530	4723.6
4933	1.337	34.700	4.35	0.916	27.810	37.073	45.920	3.672	615.5	-0.37	0.024	2.10	0.000	4853.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.4	27.774	27.773	22.059	30.306	38.201	34.452	34.451	5.06	2.11	0.19	0.10	0.00	1.587	0.849	6	222222222
23	45.3	27.691	27.681	22.091	30.340	38.237	34.455	34.849	4.88	2.11	0.21	0.40	0.00	1.619	0.875	45	222222222
22	97.1	22.854	22.835	23.934	32.302	40.312	34.936	34.970	4.19	3.22	0.40	2.36	0.14	1.704	0.882	96	222222222
21	145.8	16.167	16.143	25.438	34.018	42.226	34.639	34.647	3.37	9.87	1.04	12.30	0.00	1.599	0.806	144	222222222
20	199.1	10.999	10.975	26.269	35.049	43.444	34.344	34.584	2.69	25.68	1.81	24.00	0.00	0.977	0.543	197	222222222
19	247.7	10.050	10.021	26.621	35.437	43.866	34.581	34.584	0.89	35.34	2.54	34.30	0.00	0.188	0.082	246	222222222
18	295.2	9.468	9.435	26.764	35.604	44.056	34.638	34.632	0.66	38.77	2.63	37.30	0.00	0.043		293	222222225
17	345.0	8.717	8.680	26.850	35.723	44.206	34.592	34.604	0.80	43.60	2.68	37.40	0.00			342	222222255
16	398.4	8.095	8.054	26.921	35.823	44.333	34.561	34.562	0.96	48.33	2.72	37.70	0.00	0.034		395	222222225
15	495.9	7.164	7.117	27.034	35.979	44.529	34.531	34.532	1.13	57.49	2.84	39.00	0.00	0.015	0.008	492	222222222
14	596.5	6.338	6.283	27.143	36.128	44.715	34.528	34.527	1.09	67.56	2.95	41.10	0.00	0.007	0.008	592	222222222
13	798.3	5.242	5.175	27.291	36.329	44.967	34.541	34.540	1.08	83.67	3.09	43.00	0.00			792	222222255
12	1001.4	4.239	4.161	27.419	36.509	45.194	34.560	34.559	1.43	102.50	3.08	43.00	0.00	-0.013	-0.005	993	222222222
11	1246.7	3.500	3.408	27.512	36.640	45.361	34.580	34.579	1.73	118.21	3.02	42.40	0.00		0.001	1235	222222252
10	1499.5	2.891	2.784	27.588	36.749	45.501	34.603		2.04	132.21	2.97	41.70	0.00	0.004	-0.004	1485	252222222
9	1999.4	2.125	1.987	27.683	36.887	45.679	34.638	34.636	2.43	149.22	2.85	40.60	0.00		-0.005	1978	222222252
8	2500.8	1.841	1.664	27.725	36.946	45.755	34.660		2.75	153.75	2.78	39.50	0.00	-0.003	0.001	2471	252222222
7	2999.8	1.656	1.436	27.750	36.984	45.805	34.670	34.669	3.09	152.95	2.69	38.80	0.00	-0.016	-0.005	2961	222222222
6	3504.6	1.560	1.292	27.766	37.007	45.836	34.677	34.678	3.36	152.04	2.65	38.10	0.00	0.017	0.007	3456	222222222
5	4005.2	1.455	1.137	27.784	37.034	45.870	34.686		3.64	148.32	2.58	37.10	0.00		0.001	3945	252222252
4	4255.0	1.429	1.084	27.790	37.044	45.883	34.689	34.689	3.79	144.69	2.54	36.70	0.00	0.014	0.006	4189	222222222
3	4501.7	1.403	1.031	27.795	37.052	45.894	34.692	34.693	3.96	140.06	2.47	36.10	0.00		0.006	4429	222222252
2	4752.7	1.379	0.979	27.802	37.061	45.906	34.695	34.697	4.11	135.93	2.46	35.70	0.00			4673	222222255
1	4933.8	1.337	0.916	27.809	37.072	45.920	34.699		4.28	132.41	2.42	35.10	0.00	0.009		4849	252222225

CRUISE: MW 893 STA: 87 DATE (D/M/Y): 10- 3-89 TIME: 0656 LAT: 9 29.58 N LONG: 172 40.04 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24053E-04 1/S SOUND SPEED= 1504.6 M/S Depth= 4940 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.648	34.434	5.32	27.648	22.086	30.336	38.234	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.648	34.434	5.32	27.648	22.086	30.336	38.235	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.660	34.423	5.11	27.656	22.075	30.325	38.224	0.115	0.1	-0.39	0.162	5.85	0.884	20.0
30	27.661	34.423	5.07	27.654	22.076	30.326	38.224	0.172	0.3	-0.18	0.001	1.38	0.428	30.0
40	27.663	34.423	5.13	27.654	22.075	30.325	38.224	0.230	0.5	-0.94	0.172	10.18	1.166	40.0
50	27.643	34.434	5.15	27.631	22.091	30.341	38.240	0.287	0.7	2.73	4.440	57.73	2.776	50.0
100	23.558	34.866	4.61	23.537	23.678	32.027	40.020	0.543	2.6	-100.86	4.570	777.00	10.185	100.0
125	21.044	35.006	4.24	21.020	24.494	32.914	40.971	0.639	3.8	-159.73	-5.624	915.89	11.058	124.9
150	17.498	34.760	3.74	17.473	25.218	33.751	41.915	0.717	4.8	-163.98	-13.683	666.83	9.435	149.8
200	11.232	34.336	3.02	11.207	26.221	34.991	43.377	0.826	6.8	-41.79	0.688	197.82	5.139	199.6
250	10.256	34.504	1.44	10.226	26.527	35.335	43.756	0.910	8.7	-1.53	5.647	109.90	3.830	249.4
300	9.919	34.636	0.94	9.884	26.687	35.508	43.942	0.983	10.7	-16.23	-0.450	58.55	2.796	299.1
350	9.138	34.610	1.02	9.099	26.797	35.652	44.117	1.052	13.0	-4.04	1.301	39.99	2.311	348.8
400	8.850	34.627	0.91	8.806	26.858	35.725	44.202	1.116	15.5	-13.56	-1.023	34.11	2.134	398.5
450	8.188	34.560	1.26	8.142	26.907	35.806	44.311	1.178	18.1	-8.54	-0.276	27.12	1.903	448.2
500	7.712	34.569	1.16	7.662	26.985	35.905	44.431	1.237	21.0	-11.22	-0.480	32.47	2.082	497.8
600	6.766	34.530	1.40	6.710	27.088	36.053	44.621	1.348	27.2	-9.07	-0.395	24.94	1.825	597.1
700	6.105	34.539	1.18	6.042	27.183	36.180	44.777	1.450	34.0	-7.04	0.228	27.86	1.929	696.4
800	5.407	34.544	1.24	5.339	27.274	36.304	44.934	1.543	41.1	-3.97	-0.035	12.45	1.289	795.5
900	4.974	34.545	1.54	4.900	27.326	36.378	45.028	1.630	48.7	-5.35	0.074	18.61	1.576	894.7
1000	4.513	34.547	1.75	4.433	27.380	36.456	45.128	1.713	56.6	-4.81	0.093	16.82	1.499	993.7
1200	3.712	34.573	1.95	3.622	27.485	36.602	45.313	1.861	73.3	-3.23	0.076	11.27	1.227	1191.7
1400	3.169	34.590	2.13	3.067	27.552	36.698	45.436	1.994	90.8	-2.63	0.083	9.49	1.126	1389.5
1600	2.678	34.609	2.31	2.566	27.611	36.784	45.547	2.114	109.2	-1.89	0.097	7.55	1.004	1587.1
1800	2.366	34.626	2.48	2.241	27.652	36.842	45.622	2.225	128.4	-1.46	0.069	5.75	0.876	1784.4
2000	2.141	34.637	2.61	2.002	27.681	36.884	45.675	2.329	148.5	-1.01	0.062	4.30	0.758	1981.6
2200	1.988	34.647	2.73	1.835	27.702	36.914	45.714	2.428	169.8	-0.85	0.053	3.71	0.703	2178.6
2400	1.857	34.656	2.87	1.688	27.720	36.940	45.748	2.524	192.2	-0.58	0.031	2.48	0.576	2375.5
2600	1.782	34.662	2.96	1.596	27.732	36.957	45.769	2.617	216.1	-0.40	0.021	1.73	0.481	2572.1
2800	1.697	34.667	3.09	1.495	27.743	36.974	45.791	2.710	241.6	-0.55	0.029	2.44	0.571	2768.6
3000	1.627	34.672	3.25	1.407	27.753	36.989	45.811	2.801	268.5	-0.34	0.016	1.50	0.447	2964.9
3200	1.566	34.675	3.33	1.328	27.762	37.002	45.828	2.891	296.9	-0.41	0.021	1.92	0.506	3161.0
3400	1.522	34.679	3.43	1.265	27.769	37.012	45.842	2.980	326.9	-0.36	0.017	1.64	0.467	3356.9
3600	1.474	34.682	3.58	1.198	27.777	37.024	45.857	3.068	358.4	-0.34	0.019	1.64	0.468	3552.6
3800	1.422	34.686	3.74	1.127	27.784	37.035	45.872	3.155	391.3	-0.28	0.014	1.37	0.428	3748.2
4000	1.398	34.689	3.87	1.082	27.790	37.043	45.882	3.242	425.7	-0.22	0.014	1.16	0.393	3943.6
4200	1.374	34.692	4.02	1.036	27.795	37.051	45.893	3.328	461.9	-0.21	0.015	1.15	0.392	4138.9
4400	1.371	34.694	4.13	1.012	27.799	37.056	45.899	3.415	499.8	-0.08	0.005	0.41	0.233	4333.9
4600	1.373	34.695	4.22	0.990	27.801	37.060	45.904	3.502	539.9	-0.16	0.009	0.86	0.338	4528.8
4800	1.329	34.699	4.37	0.924	27.808	37.071	45.918	3.589	581.8	-0.40	0.023	2.20	0.542	4723.5
4943	1.300	34.701	4.52	0.879	27.813	37.078	45.928	3.651	612.5	-0.43	0.022	2.20	0.000	4862.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	27.645	27.643	22.083	30.333	38.232	34.428	34.427	5.39	0.91	0.15	0.00	0.00			7	222222255
23	47.8	27.697	27.685	22.134	30.382	38.279	34.514	34.511	5.31	0.91	0.20	0.00	0.00			47	222222255
22	96.4	23.076	23.057	23.823	32.185	40.190	34.873	34.872	4.40	2.72	0.38	2.27	0.33			95	222222255
21	145.9	18.353	18.327	25.075	33.580	41.717	34.848	34.835	3.94	6.24	0.71	7.58	0.02			145	222222255
20	195.9	11.648	11.623	26.149	34.902	43.272	34.342	34.342	3.74	20.64	1.43	18.90	0.00			194	222222255
19	246.6	10.415	10.386	26.453	35.255	43.671	34.445	34.478	1.96	32.12	2.24	30.00	0.00			245	222222255
18	295.5	10.142	10.107	26.653	35.464	43.889	34.640	34.631	1.12	35.54	2.54	35.20	0.00			293	222222255
17	347.4	9.329	9.290	26.767	35.613	44.071	34.611	34.610	1.07	39.97	2.61	36.60	0.00			345	222222255
16	398.5	9.025	8.981	26.832	35.691	44.161	34.630	34.629	0.67	41.79	2.70	37.80	0.00			395	222222255
15	496.6	7.843	7.793	26.973	35.886	44.407	34.577	34.574	1.21	50.95	2.82	38.90	0.00			493	222222255
13	795.8	5.409	5.341	27.272	36.302	44.932	34.542	34.539	1.11	82.67	3.12	43.70	0.00			789	222222255
12	998.7	4.421	4.342	27.392	36.472	45.149	34.549	34.548		100.39	3.04	42.50	0.00			990	225222255
11	1248.1	3.525	3.432	27.507	36.634	45.354	34.577	34.575	1.83	118.81	3.00	42.00	0.00			1237	222222255
10	1495.9	2.921	2.814	27.581	36.740	45.491	34.598	34.598		132.81	2.97	41.60	0.00			1482	225222255
9	1999.7	2.126	1.988	27.684	36.888	45.680	34.640	34.639	2.50	149.63	2.86	40.50	0.00			1978	222222255
8	2499.3	1.818	1.641	27.726	36.949	45.759	34.659	34.658	2.84	155.36	2.78	39.60	0.00			2470	222222255
7	3016.3	1.624	1.403	27.754	36.990	45.812	34.672	34.671		155.47	2.69	38.60	0.00			2977	225222255
6	3529.0	1.492	1.223	27.774	37.019	45.851	34.681	34.680		152.04	2.69	37.60	0.00			3480	225222255
5	4004.4	1.394	1.078	27.790	37.043	45.883	34.688	34.688	3.94	145.20	2.57	36.40	0.00			3944	222222255
4	4255.0	1.368	1.025	27.797	37.054	45.896	34.693	34.695	4.10	140.06	2.53	36.00	0.00			4189	222222255
3	4508.3	1.370	0.998	27.799	37.057	45.901	34.693	34.694	4.23	138.45	2.54	35.80	0.00			4435	222222255
2	4753.4	1.360	0.960	27.805	37.065	45.910	34.697	34.697	4.23	135.73	2.44	35.40	0.00			4674	222222255
1	4945.1	1.299	0.878	27.814	37.078	45.928	34.702	34.701	4.45	130.09	2.40	34.60	0.00			4860	222222255

CRUISE: MW 893 STA: 88 DATE (D/M/Y): 10- 3-89 TIME: 1442 LAT: 9 29.19 N LONG: 173 19.96 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24037E-04 1/S SOUND SPEED= 1506.8 M/S Depth= 5213 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.921	34.522	4.10	27.921	22.063	30.306	38.197	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.921	34.522	4.10	27.921	22.063	30.306	38.197	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.953	34.511	5.19	27.948	22.046	30.288	38.179	0.115	0.1	0.23	-0.047	-2.63	-0.592	20.0
30	27.957	34.511	5.12	27.950	22.045	30.287	38.178	0.173	0.3	-0.16	-0.016	0.97	0.360	30.0
40	27.958	34.511	5.18	27.949	22.046	30.288	38.179	0.231	0.5	-0.28	-0.023	1.77	0.486	40.0
50	27.960	34.510	5.11	27.948	22.045	30.287	38.179	0.289	0.7	0.47	-0.048	-4.46	-0.772	50.0
100	24.906	34.906	5.08	24.885	23.307	31.620	39.578	0.569	2.9	-137.78	13.177	1225.32	12.794	100.0
125	21.703	35.024	4.36	21.679	24.327	32.727	40.766	0.674	4.1	-174.48	-4.222	1060.25	11.901	124.9
150	16.415	34.680	3.56	16.391	25.412	33.983	42.183	0.752	5.1	-184.64	-14.380	811.08	10.409	149.9
200	12.146	34.521	1.79	12.120	26.195	34.926	43.275	0.860	7.1	-31.09	3.514	207.41	5.264	199.7
250	11.029	34.690	0.43	10.999	26.535	35.308	43.697	0.944	9.0	-21.40	1.291	116.76	3.950	249.4
300	9.947	34.682	0.53	9.913	26.719	35.538	43.970	1.017	11.0	-18.36	-0.405	68.61	3.028	299.1
350	9.313	34.661	0.52	9.274	26.808	35.655	44.113	1.084	13.2	-8.53	-0.346	27.98	1.933	348.8
400	8.972	34.644	0.51	8.928	26.851	35.713	44.185	1.149	15.7	-7.14	-0.374	21.37	1.690	398.5
450	8.698	34.630	0.58	8.649	26.884	35.759	44.242	1.212	18.4	-6.99	-0.376	20.32	1.648	448.2
500	8.304	34.612	1.09	8.252	26.932	35.824	44.324	1.273	21.4	-6.60	-0.316	19.46	1.613	497.9
600	7.551	34.575	0.91	7.491	27.015	35.942	44.476	1.391	28.0	-7.28	-0.156	23.84	1.785	597.2
700	6.591	34.549	0.84	6.526	27.128	36.101	44.677	1.500	35.2	-9.83	-0.271	29.77	1.994	696.4
800	5.801	34.540	0.87	5.730	27.223	36.235	44.846	1.599	42.8	-6.77	-0.021	22.52	1.735	795.6
900	5.226	34.534	1.31	5.150	27.288	36.328	44.967	1.690	50.7	-5.30	0.091	19.06	1.596	894.7
1000	4.777	34.546	1.42	4.696	27.350	36.413	45.073	1.776	59.0	-3.99	0.044	13.76	1.356	993.8
1200	3.958	34.565	1.73	3.866	27.454	36.559	45.258	1.932	76.5	-4.13	0.082	14.42	1.388	1191.8
1400	3.294	34.584	1.91	3.191	27.536	36.675	45.407	2.070	94.8	-2.92	0.095	10.70	1.196	1389.6
1600	2.745	34.604	2.08	2.632	27.602	36.771	45.531	2.194	113.7	-2.31	0.099	8.85	1.088	1587.1
1800	2.375	34.622	2.29	2.250	27.649	36.838	45.617	2.306	133.1	-1.62	0.080	6.43	0.927	1784.5
2000	2.126	34.638	2.47	1.988	27.682	36.886	45.678	2.409	153.2	-1.00	0.062	4.24	0.752	1981.7
2200	1.961	34.648	2.62	1.808	27.705	36.918	45.720	2.508	174.4	-0.84	0.051	3.65	0.698	2178.7
2400	1.837	34.657	2.74	1.668	27.723	36.944	45.752	2.604	196.7	-0.67	0.038	2.88	0.620	2375.6
2600	1.726	34.662	2.89	1.542	27.736	36.964	45.779	2.696	220.4	-0.50	0.036	2.34	0.559	2572.2
2800	1.661	34.669	3.01	1.459	27.747	36.980	45.799	2.787	245.4	-0.47	0.029	2.16	0.537	2768.7
3000	1.588	34.674	3.14	1.369	27.758	36.995	45.819	2.877	272.0	-0.40	0.019	1.80	0.491	2964.9
3200	1.532	34.677	3.30	1.295	27.766	37.008	45.836	2.966	300.0	-0.40	0.021	1.86	0.499	3161.0
3400	1.477	34.681	3.44	1.222	27.774	37.020	45.852	3.053	329.4	-0.31	0.013	1.41	0.434	3357.0
3600	1.438	34.684	3.58	1.163	27.781	37.030	45.865	3.140	360.4	-0.29	0.015	1.39	0.431	3552.7
3800	1.407	34.687	3.71	1.112	27.787	37.039	45.876	3.226	393.0	-0.29	0.016	1.44	0.439	3748.3
4000	1.368	34.691	3.90	1.053	27.794	37.049	45.889	3.312	427.1	-0.22	0.015	1.19	0.399	3943.7
4200	1.357	34.693	3.98	1.020	27.798	37.055	45.897	3.397	462.8	-0.18	0.011	0.93	0.353	4138.9
4400	1.349	34.695	4.10	0.990	27.801	37.060	45.904	3.483	500.5	-0.17	0.011	0.94	0.354	4334.0
4600	1.341	34.697	4.19	0.959	27.805	37.065	45.910	3.569	540.0	-0.17	0.011	0.93	0.353	4528.9
4800	1.328	34.699	4.30	0.923	27.809	37.071	45.918	3.656	581.4	-0.20	0.012	1.12	0.386	4723.6
5000	1.315	34.701	4.39	0.887	27.813	37.077	45.926	3.742	624.6	-0.14	0.008	0.79	0.325	4918.2
5200	1.322	34.703	4.47	0.869	27.815	37.080	45.931	3.829	669.8	-0.06	0.003	0.79	0.000	5112.5
5213	1.323	34.703	4.47	0.868	27.815	37.081	45.931	3.835	672.9	-0.06	0.003	0.79	0.000	5125.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.4	27.948	27.946	22.050	30.292	38.183	34.515	34.516	5.02	1.51	0.17	0.00	0.00			6	222222255
23	47.4	27.955	27.944	22.051	30.293	38.184	34.516	34.515	4.99	1.51	0.22	0.00	0.00			47	222222255
22	97.2	25.694	25.672	22.992	31.286	39.226	34.808	34.806	4.77	1.51	0.25	0.10	0.00			96	222222255
21	147.3	18.204	18.178	25.111	33.620	41.762	34.846	34.834	3.77	5.74	0.75	7.56	0.04			146	222222255
20	198.3	12.214	12.188	26.185	34.913	43.259	34.525	34.518	2.81	23.46	1.92	25.20	0.00			197	222222255
19	246.1	11.077	11.047	26.520	35.292	43.679	34.682	34.682	0.50	31.72	2.52	34.40	0.00			244	222222255
18	298.3	10.026	9.991	26.703	35.519	43.948	34.679	34.676	0.64	35.04	2.58	36.30	0.00			296	222222255
17	398.2	9.177	9.133	26.826	35.678	44.142	34.653	34.650	0.52	39.97	2.75	38.10	0.00			395	222222255
16	497.3	8.542	8.489	26.900	35.782	44.272	34.619	34.619	0.74	43.70	2.78	38.20	0.00			493	222222255
15	598.6	7.683	7.623	26.997	35.918	44.446	34.576	34.575	0.81	52.06	2.88	39.60	0.00			594	222222255
14	698.4	6.861	6.795	27.099	36.060	44.623	34.559	34.561	0.96	59.41	2.96	41.10	0.00			693	222222255
13	798.0	5.969	5.897	27.203	36.206	44.811	34.541	34.540	0.85	73.71	3.12	43.20	0.00			791	222222255
12	997.8	4.937	4.854	27.334	36.388	45.041	34.548	34.547	1.02	90.52	3.16	44.20	0.00			989	222222255
11	1244.1	3.860	3.765	27.462	36.572	45.276	34.562	34.563	1.57	113.07	3.03	42.70	0.00			1233	222222255
10	1497.7	2.982	2.875	27.572	36.728	45.476	34.593	34.591	1.91	132.41	2.97	42.00	0.00			1483	222222255
9	1997.3	2.119	1.981	27.683	36.887	45.679	34.637	34.634	2.49	151.14	2.86	40.70	0.00			1976	222222255
8	2499.4	1.799	1.623	27.728	36.952	45.763	34.660	34.658	2.81	156.77	2.77	39.70	0.00			2470	222222255
7	3001.8	1.603	1.384	27.756	36.993	45.816	34.673	34.671	3.17	156.07	2.68	38.70	0.00			2963	222222255
6	3501.4	1.459	1.194	27.777	37.024	45.858	34.682	34.680	3.49	151.24	2.60	37.50	0.00			3453	222222255
5	4001.7	1.368	1.053	27.793	37.048	45.889	34.690	34.690	3.91	142.48	2.49	36.40	0.00			3941	222222255
4	4503.3	1.341	0.971	27.803	37.062	45.907	34.695	34.694	4.17	136.64	2.42	35.60	0.00			4431	222222255
3	4751.3	1.328	0.929	27.808	37.070	45.917	34.699	34.696	4.29	133.41	2.42	35.10	0.00			4672	222222255
2	5006.3	1.313	0.884	27.813	37.077	45.927	34.701	34.701	4.41	129.99	2.40	34.70	0.00			4928	222222255
1	5216.5	1.323	0.868	27.815	37.080	45.930	34.702	34.700	4.44	129.99	2.37	34.60	0.00			5124	222222255

CRUISE: MW 893 STA: 89 DATE (D/M/Y): 10- 3-89 TIME: 2228 LAT: 9 29.16 N LONG: 173 59.99 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24036E-04 1/S SOUND SPEED= 1508.3 M/S Depth= 5399 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.951	34.609	5.12	27.951	22.119	30.360	38.250	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.951	34.609	5.12	27.951	22.119	30.360	38.250	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.925	34.598	4.82	27.920	22.121	30.363	38.254	0.114	0.1	-0.50	0.015	4.09	0.739	20.0
30	27.922	34.599	4.85	27.915	22.123	30.365	38.256	0.171	0.3	-0.50	0.006	3.90	0.722	30.0
40	27.921	34.599	4.79	27.912	22.124	30.366	38.257	0.228	0.5	-0.15	0.029	1.64	0.468	40.0
50	27.922	34.599	4.84	27.910	22.125	30.367	38.258	0.285	0.7	-0.08	0.092	2.22	0.545	50.0
100	24.417	34.783	4.57	24.396	23.361	31.688	39.660	0.560	2.8	-151.37	6.541	1191.37	12.616	100.0
125	21.484	34.915	3.83	21.460	24.305	32.712	40.759	0.660	4.0	-86.67	3.440	619.99	9.101	124.9
150	19.126	34.892	3.75	19.099	24.914	33.393	41.507	0.744	5.1	-158.72	-10.991	710.83	9.745	149.9
200	13.357	34.501	2.65	13.330	25.941	34.625	42.930	0.867	7.3	-66.87	0.463	331.13	6.651	199.7
250	11.002	34.670	0.47	10.971	26.524	35.299	43.689	0.956	9.3	-18.64	0.955	98.88	3.635	249.4
300	10.381	34.691	0.52	10.346	26.652	35.452	43.867	1.030	11.4	-12.14	-0.081	49.83	2.580	299.1
350	9.786	34.679	0.48	9.746	26.745	35.571	44.009	1.101	13.7	-9.25	-0.307	32.51	2.084	348.9
400	9.451	34.667	0.44	9.406	26.792	35.633	44.085	1.168	16.3	-7.00	-0.292	23.05	1.755	398.6
450	9.085	34.649	0.43	9.035	26.838	35.695	44.163	1.234	19.2	-8.86	-0.466	26.88	1.895	448.2
500	8.658	34.626	0.45	8.604	26.888	35.765	44.250	1.298	22.3	-9.53	-0.496	28.17	1.940	497.9
600	7.522	34.572	0.48	7.463	27.017	35.946	44.480	1.417	29.0	-10.34	-0.389	30.90	2.032	597.2
700	6.631	34.549	0.65	6.566	27.123	36.094	44.668	1.526	36.2	-7.77	-0.146	24.62	1.814	696.4
800	5.892	34.541	0.81	5.821	27.213	36.220	44.828	1.626	43.8	-6.62	-0.031	21.96	1.713	795.6
900	5.357	34.543	0.98	5.280	27.280	36.314	44.946	1.719	51.8	-5.64	0.051	19.50	1.614	894.7
1000	4.821	34.549	1.12	4.739	27.348	36.408	45.066	1.805	60.2	-4.41	0.093	15.89	1.457	993.8
1200	4.028	34.568	1.52	3.935	27.449	36.550	45.246	1.962	77.8	-3.82	0.076	13.37	1.337	1191.8
1400	3.385	34.562	1.88	3.281	27.526	36.660	45.388	2.102	96.4	-2.82	0.100	10.54	1.187	1389.6
1600	2.872	34.599	2.06	2.757	27.587	36.749	45.503	2.229	115.7	-2.46	0.097	9.36	1.118	1587.2
1800	2.466	34.619	2.26	2.339	27.639	36.823	45.598	2.344	135.7	-1.81	0.089	7.22	0.982	1784.6
2000	2.183	34.634	2.44	2.044	27.675	36.875	45.665	2.450	156.3	-1.22	0.066	5.02	0.819	1981.8
2200	2.001	34.646	2.59	1.847	27.700	36.911	45.711	2.551	177.8	-0.90	0.049	3.78	0.710	2178.8
2400	1.874	34.655	2.72	1.705	27.718	36.937	45.744	2.648	200.4	-0.72	0.040	3.10	0.644	2375.6
2600	1.746	34.662	2.88	1.561	27.735	36.961	45.776	2.741	224.4	-0.62	0.036	2.74	0.605	2572.2
2800	1.665	34.669	3.01	1.463	27.747	36.979	45.798	2.833	249.5	-0.40	0.024	1.83	0.495	2768.7
3000	1.605	34.673	3.14	1.385	27.756	36.993	45.816	2.923	276.2	-0.48	0.023	2.12	0.533	2965.0
3200	1.533	34.678	3.29	1.296	27.766	37.007	45.835	3.011	304.2	-0.40	0.020	1.83	0.495	3161.1
3400	1.471	34.682	3.46	1.216	27.775	37.021	45.853	3.099	333.6	-0.35	0.017	1.63	0.467	3357.0
3600	1.438	34.685	3.58	1.163	27.781	37.030	45.865	3.185	364.5	-0.32	0.016	1.55	0.455	3552.8
3800	1.408	34.687	3.71	1.113	27.787	37.038	45.876	3.272	397.0	-0.19	0.011	0.94	0.354	3748.3
4000	1.403	34.689	3.80	1.087	27.790	37.043	45.882	3.358	431.4	-0.15	0.009	0.75	0.316	3943.7
4200	1.384	34.691	3.92	1.047	27.794	37.050	45.891	3.445	467.7	-0.18	0.013	0.99	0.363	4139.0
4400	1.380	34.693	4.00	1.020	27.797	37.054	45.897	3.532	505.8	-0.19	0.011	1.00	0.366	4334.0
4600	1.355	34.696	4.11	0.973	27.803	37.062	45.907	3.619	545.8	-0.29	0.017	1.56	0.456	4528.9
4800	1.324	34.700	4.27	0.920	27.809	37.072	45.919	3.705	587.3	-0.23	0.013	1.26	0.410	4723.7
5000	1.318	34.701	4.36	0.889	27.813	37.077	45.926	3.792	630.5	-0.11	0.007	0.61	0.286	4918.2
5200	1.325	34.703	4.42	0.872	27.815	37.080	45.930	3.879	675.8	-0.06	0.003	0.32	0.207	5112.6
5400	1.346	34.703	4.45	0.867	27.815	37.081	45.931	3.967	723.5	-0.01	0.002	0.32	0.000	5306.8
5405	1.346	34.703	4.45	0.867	27.816	37.081	45.931	3.969	724.8	-0.01	0.002	0.32	0.000	5311.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	2.4	27.954	27.953	22.101	30.342	38.232	34.586	34.584	5.05	1.61	0.20	-0.01	0.01	1.557	0.821	2	222222222
23	46.8	27.917	27.907	22.121	30.363	38.254	34.592	34.593	4.94	1.61	0.22	-0.01	0.01	1.552	0.821	46	222222222
22	96.4	25.147	25.126	23.159	31.467	39.420	34.807	34.815	4.66	2.01	0.28	0.29	0.01	1.728	0.917	95	222222222
21	145.8	16.612	16.588	25.354	33.918	42.112	34.663	34.770	3.42	8.56	0.93	10.39	0.01	1.559	0.790	144	222222222
20	195.0	11.915	11.890	26.286	35.025	43.382	34.582	34.581	0.94	27.29	2.30	30.09	0.01	0.439	0.230	193	222222222
19	246.2	10.758	10.728	26.573	35.358	43.757	34.676	34.669	0.47	32.42	2.57	34.49	0.01	0.130	0.065	244	222222222
18	297.2	10.158	10.123	26.688	35.497	43.921	34.688	34.687	0.46	34.94	2.61	36.09	0.01	0.033		295	222222225
17	395.8	9.313	9.269	26.806	35.653	44.111	34.657	34.656	0.42	38.97	2.75	37.49	0.01	0.017		393	222222225
16	498.5	8.366	8.314	26.920	35.810	44.308	34.610	34.608	0.45	47.53	2.89	38.69	0.01	0.007	0.007	495	222222222
15	598.8	7.419	7.360	27.028	35.962	44.501	34.568	34.573	0.52	56.79	3.05	40.29	0.01	0.007	-0.004	594	222222222
14	696.7	6.478	6.414	27.153	36.131	44.712	34.562	34.541	0.68	67.16	3.10	42.19	0.01	-0.001	-0.004	691	222222222
13	798.5	5.820	5.749	27.221	36.232	44.843	34.540	34.539	0.77	76.02	3.15	43.10	0.00	-0.015	0.001	792	222222222
12	996.9	4.801	4.719	27.350	36.411	45.070	34.549	34.546	1.05	92.53	3.17	43.50	0.00	-0.010	-0.005	988	222222222
11	1247.9	3.843	3.747	27.469	36.580	45.285	34.569	34.567	1.60	111.67	3.05	42.30	0.00		0.001	1237	222222252
9	2000.3	2.173	2.034	27.676	36.877	45.667	34.634	34.636	2.39	149.32	2.87	40.40	0.00			1979	222222255
8	2501.4	1.793	1.617	27.729	36.953	45.764	34.660	34.659	2.77	155.47	2.79	39.30	0.00			2472	222222255
7	3000.5	1.597	1.378	27.756	36.993	45.817	34.673	34.676	3.13	155.06	2.68	38.20	0.00			2962	222222255
6	3501.0	1.461	1.196	27.777	37.024	45.858	34.683	34.681	3.49	150.33	2.61	37.10	0.00			3452	222222255
5	4004.7	1.406	1.089	27.788	37.042	45.880	34.688	34.690	3.78	144.69	2.53	36.30	0.00			3944	222222255
4	4503.3	1.370	0.999	27.800	37.058	45.901	34.694	34.695	4.03	137.74	2.41	35.20	0.00			4431	222222255
3	4752.7	1.334	0.935	27.807	37.069	45.915	34.698	34.700	4.26	133.51	2.37	35.00	0.00			4673	222222255
2	5006.6	1.315	0.886	27.812	37.076	45.926	34.700	34.705	4.35	130.59	2.37	34.40	0.00	0.013	-0.005	4920	222222222
1	5409.4	1.346	0.867	27.815	37.080	45.931	34.702	34.703	4.46	129.79	2.36	34.31	-0.01			5311	222222255

CRUISE: MW 893 STA: 90 DATE (D/M/Y): 11- 3-89 TIME: 0606 LAT: 9 29.43 N LONG: 174 39.97 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24047E-04 1/S SOUND SPEED= 1509.0 M/S Depth= 5437 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.942	34.512	5.18	27.942	22.049	30.291	38.183	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.942	34.512	5.18	27.941	22.049	30.292	38.183	0.017	0.0	-0.47	0.000	0.00	0.000	3.0
20	27.890	34.498	4.77	27.886	22.056	30.300	38.193	0.115	0.1	-9.35	-1.388	47.01	2.506	20.0
30	27.805	34.487	4.92	27.798	22.077	30.323	38.217	0.173	0.3	-0.67	0.298	10.37	1.177	30.0
40	27.803	34.490	4.88	27.793	22.081	30.326	38.221	0.230	0.5	0.48	1.287	19.12	1.598	40.0
50	27.843	34.583	4.83	27.831	22.138	30.382	38.275	0.288	0.7	5.87	16.243	242.32	5.688	50.0
100	25.368	34.875	3.88	25.346	23.143	31.444	39.392	0.555	2.8	-80.84	1.881	614.83	9.061	100.0
125	22.996	34.859	3.98	22.970	23.837	32.202	40.209	0.666	4.0	-150.21	2.299	1034.12	11.751	124.9
150	18.555	34.787	3.72	18.529	24.979	33.477	41.609	0.754	5.3	-125.46	-5.136	680.75	9.534	149.9
200	12.867	34.460	2.53	12.840	26.007	34.711	43.034	0.880	7.5	-86.63	-1.829	383.52	7.156	199.7
250	10.904	34.672	0.50	10.873	26.543	35.322	43.717	0.967	9.5	-12.97	3.429	118.41	3.976	249.4
300	10.140	34.682	0.56	10.104	26.686	35.497	43.921	1.040	11.5	-8.39	-0.143	32.51	2.084	299.2
350	9.642	34.673	0.53	9.602	26.764	35.597	44.041	1.109	13.8	-11.08	-0.307	39.64	2.301	348.9
400	9.173	34.651	0.57	9.128	26.825	35.678	44.141	1.175	16.3	-10.33	-0.768	27.10	1.902	398.6
450	8.712	34.623	0.60	8.664	26.876	35.750	44.234	1.239	19.1	-12.05	-0.706	33.82	2.125	448.2
500	8.041	34.584	0.81	7.990	26.949	35.854	44.366	1.300	22.1	-9.42	-0.357	28.95	1.966	497.9
600	7.203	34.561	0.64	7.145	27.053	35.997	44.545	1.414	28.5	-9.49	-0.239	29.61	1.989	597.2
700	6.302	34.543	0.79	6.238	27.161	36.148	44.737	1.519	35.4	-7.34	-0.053	24.17	1.796	696.4
800	5.566	34.541	0.97	5.497	27.253	36.276	44.898	1.614	42.7	-5.67	0.020	19.37	1.608	795.6
900	5.098	34.545	1.15	5.022	27.312	36.358	45.002	1.704	50.4	-4.64	0.062	16.28	1.474	894.7
1000	4.709	34.552	1.29	4.628	27.362	36.428	45.091	1.788	58.6	-4.17	0.097	15.05	1.417	993.8
1200	3.974	34.570	1.52	3.881	27.457	36.560	45.259	1.942	75.8	-3.76	0.092	13.43	1.339	1191.8
1400	3.368	34.588	1.87	3.264	27.532	36.667	45.396	2.080	94.1	-2.59	0.085	9.53	1.128	1389.6
1600	2.869	34.604	2.12	2.754	27.591	36.754	45.508	2.206	113.3	-2.48	0.075	8.97	1.095	1587.2
1800	2.474	34.621	2.33	2.348	27.640	36.824	45.598	2.320	133.2	-1.78	0.087	7.09	0.973	1784.5
2000	2.203	34.636	2.48	2.063	27.675	36.875	45.663	2.426	153.7	-1.11	0.054	4.46	0.772	1981.7
2200	2.022	34.646	2.59	1.868	27.698	36.908	45.707	2.527	175.3	-0.94	0.049	3.92	0.724	2178.7
2400	1.893	34.654	2.69	1.724	27.716	36.934	45.740	2.624	198.1	-0.66	0.037	2.85	0.617	2375.6
2600	1.789	34.661	2.80	1.604	27.731	36.955	45.767	2.719	222.2	-0.49	0.028	2.15	0.536	2572.2
2800	1.710	34.666	2.91	1.507	27.742	36.972	45.789	2.812	247.8	-0.52	0.023	2.22	0.544	2768.7
3000	1.636	34.671	3.08	1.417	27.752	36.987	45.809	2.903	274.8	-0.43	0.023	1.94	0.509	2965.0
3200	1.563	34.676	3.25	1.326	27.763	37.003	45.829	2.993	303.2	-0.46	0.022	2.10	0.529	3161.1
3400	1.506	34.680	3.39	1.250	27.771	37.015	45.845	3.082	333.0	-0.42	0.021	1.98	0.514	3357.0
3600	1.441	34.684	3.57	1.166	27.781	37.029	45.864	3.169	364.2	-0.40	0.022	1.97	0.513	3552.7
3800	1.391	34.688	3.72	1.096	27.788	37.041	45.879	3.255	396.7	-0.39	0.022	1.95	0.510	3748.3
4000	1.355	34.692	3.94	1.040	27.795	37.051	45.893	3.340	430.5	-0.21	0.013	1.07	0.379	3943.7
4200	1.352	34.694	4.02	1.016	27.798	37.056	45.898	3.425	466.0	-0.08	0.005	0.43	0.239	4139.0
4400	1.358	34.695	4.08	0.999	27.800	37.058	45.902	3.511	503.6	-0.09	0.005	0.46	0.248	4334.0
4600	1.359	34.696	4.16	0.977	27.803	37.062	45.907	3.597	543.4	-0.14	0.007	0.72	0.311	4528.9
4800	1.352	34.698	4.24	0.947	27.806	37.067	45.913	3.685	585.2	-0.13	0.008	0.74	0.313	4723.6
5000	1.349	34.699	4.31	0.920	27.809	37.072	45.919	3.772	629.1	-0.15	0.009	0.86	0.339	4918.2
5200	1.349	34.701	4.39	0.896	27.812	37.076	45.925	3.861	675.1	-0.13	0.008	0.75	0.317	5112.6
5400	1.356	34.703	4.45	0.877	27.814	37.079	45.929	3.950	723.2	-0.05	0.004	0.29	0.198	5306.8
5527	1.370	34.703	4.41	0.875	27.815	37.080	45.930	4.007	755.1	-0.02	0.003	0.29	0.000	5430.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	20.6	27.819	27.815	22.091	30.336	38.231	34.514	34.513	4.96	1.71	0.17	0.01	-0.01			20	222222255
23	47.5	27.782	27.771	22.232	30.476	38.369	34.682	34.654	5.45	1.91	0.21	0.01	-0.01			47	222222255
22	72.8	25.889	25.873	22.949	31.238	39.173	34.833	34.827	4.26	2.52	0.38	2.61	-0.01			72	222222255
21	97.0	23.639	23.619	23.670	32.017	40.007	34.888	34.864	3.87	4.13	0.53	5.29	0.31			96	222222255
20	122.9	20.397	20.374	24.605	33.044	41.121	34.923	34.860	3.93	4.53	0.58	5.09	0.11			122	222222255
19	147.1	17.542	17.518	25.186	33.718	41.882	34.733	34.736	3.59	7.25	0.81	8.57	0.23			146	222222255
18	173.2	15.154	15.127	25.627	34.244	42.486	34.588	34.573	3.21	11.68	1.16	14.41	-0.01			172	222222255
17	197.6	12.918	12.891	26.057	34.758	43.078	34.538	34.456	2.84	16.71	1.48	19.01	-0.01			196	222222255
16	247.1	10.875	10.845	26.440	35.222	43.619	34.533	34.545	1.17	30.71	2.37	31.51	-0.01			245	222222255
15	297.1	10.303	10.268	26.655	35.459	43.877	34.678	34.682	1.41	33.63	2.54	35.40	0.00			295	222222255
14	396.0	9.334	9.290	26.813	35.659	44.115	34.669	34.660	0.69	37.36	2.67	37.50	0.00			393	222222255
13	497.2	8.257	8.205	26.923	35.818	44.321	34.593	34.592		46.52	2.82	38.20	0.00			493	225222255
12	746.8	5.869	5.803	27.214	36.222	44.830	34.540	34.535	0.87	74.61	3.15	43.20	0.00			741	222222255
11	996.1	4.646	4.565	27.370	36.439	45.105	34.552	34.551	1.27	94.55	3.13	43.60	0.00			988	222222255
10	1496.1	2.991	2.884	27.575	36.731	45.478	34.598	34.596		129.08	2.98	41.80	0.00			1482	225222255
9	1998.8	2.194	2.055	27.676	36.876	45.665	34.636	34.633	2.45	147.21	2.81	40.61	-0.01			1978	222222255
8	2498.0	1.823	1.646	27.725	36.947	45.757	34.658	34.657	2.81	154.86	2.73	40.10	0.00			2469	222222255
7	3001.1	1.619	1.400	27.753	36.989	45.812	34.671	34.670	3.18	154.86	2.62	39.01	-0.01			2963	222222255
6	3503.0	1.456	1.191	27.777	37.025	45.858	34.682	34.680		150.43	2.58	37.70	0.00			3454	225222255
5	4003.7	1.347	1.032	27.796	37.052	45.894	34.692	34.691	3.96	140.16	2.48	36.40	0.00			3943	222222255
4	4504.8	1.356	0.985	27.801	37.060	45.904	34.695	34.696		136.03	2.45	35.90	0.00			4432	225222255
3	5007.2	1.348	0.918	27.808	37.071	45.918	34.698	34.698	4.27	132.11	2.37	35.40	0.00			4921	222222255
2	5253.7	1.349	0.889	27.812	37.076	45.926	34.701	34.701	4.38	129.49	2.34	35.10	0.00			5160	222222255
1	5530.3	1.370	0.874	27.815	37.080	45.930	34.702	34.703	4.39	129.29	2.34	34.90	0.00			5429	222222255

CRUISE: MW 893 STA: 91 DATE (D/M/Y): 11- 3-89 TIME: 1451 LAT: 9 29.55 N LONG: 175 29.95 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1512.2 M/S Depth= 5912 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.145	34.642	3.94	27.145	22.404	30.664	38.571	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.145	34.642	3.94	27.145	22.404	30.664	38.571	0.005	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.168	34.638	4.99	27.163	22.395	30.655	38.562	0.109	0.1	-0.37	-0.009	2.61	0.590	20.0
30	27.164	34.639	5.00	27.157	22.398	30.657	38.564	0.163	0.3	-0.15	0.018	1.45	0.439	30.0
40	27.146	34.643	5.06	27.137	22.408	30.667	38.575	0.218	0.4	-8.02	2.432	103.48	3.717	40.0
50	27.021	34.714	5.03	27.009	22.501	30.763	38.674	0.272	0.7	-27.70	16.673	503.37	8.198	50.0
100	24.912	35.070	4.79	24.890	23.429	31.740	39.697	0.524	2.6	-87.31	5.627	722.80	9.823	99.9
125	22.546	35.187	4.41	22.520	24.215	32.589	40.604	0.628	3.8	-171.59	-0.734	1119.96	12.228	124.9
150	18.150	34.935	4.37	18.125	25.193	33.703	41.845	0.708	4.9	-101.51	-9.162	434.08	7.613	149.8
200	13.713	34.493	4.63	13.684	25.862	34.532	42.825	0.831	7.1	-80.53	-7.305	260.25	5.895	199.6
250	10.558	34.482	1.33	10.528	26.456	35.252	43.662	0.925	9.2	-10.40	5.613	147.17	4.433	249.4
300	9.829	34.595	0.52	9.794	26.671	35.496	43.934	1.002	11.4	-14.82	1.112	81.00	3.288	299.1
350	9.127	34.596	0.51	9.089	26.788	35.643	44.109	1.070	13.7	-13.19	-0.332	46.17	2.483	348.8
400	8.516	34.572	0.78	8.474	26.866	35.749	44.241	1.134	16.1	-11.88	-0.289	40.19	2.316	398.5
450	7.941	34.555	0.96	7.895	26.940	35.850	44.366	1.195	18.8	-11.05	-0.359	34.43	2.144	448.2
500	7.463	34.545	1.04	7.414	27.003	35.934	44.471	1.253	21.6	-8.36	-0.039	29.55	1.986	497.9
600	6.681	34.530	1.12	6.625	27.100	36.068	44.640	1.362	27.7	-6.56	-0.009	22.78	1.744	597.1
700	6.045	34.542	0.72	5.983	27.193	36.192	44.792	1.463	34.3	-5.75	0.027	20.01	1.635	696.4
800	5.448	34.538	1.01	5.379	27.265	36.293	44.921	1.557	41.5	-5.88	0.045	20.24	1.644	795.5
900	4.973	34.547	1.05	4.899	27.328	36.380	45.030	1.644	49.1	-4.78	0.111	17.27	1.519	894.7
1000	4.512	34.557	1.18	4.432	27.388	36.464	45.136	1.726	57.0	-4.22	0.092	15.04	1.417	993.7
1200	3.705	34.579	1.59	3.615	27.490	36.608	45.319	1.874	73.6	-3.42	0.099	12.29	1.281	1191.7
1400	3.149	34.596	1.95	3.047	27.558	36.705	45.444	2.005	91.0	-2.23	0.075	8.14	1.043	1389.5
1600	2.799	34.609	2.11	2.685	27.601	36.767	45.525	2.126	109.5	-1.84	0.072	6.94	0.962	1587.1
1800	2.470	34.623	2.25	2.343	27.642	36.826	45.600	2.239	129.1	-1.61	0.069	6.27	0.915	1784.5
2000	2.242	34.634	2.37	2.101	27.671	36.868	45.655	2.346	149.7	-1.08	0.060	4.51	0.776	1981.7
2200	2.049	34.645	2.49	1.894	27.695	36.904	45.701	2.448	171.5	-0.79	0.045	3.37	0.671	2178.7
2400	1.932	34.654	2.62	1.762	27.713	36.929	45.733	2.546	194.5	-0.62	0.036	2.71	0.601	2375.5
2600	1.825	34.659	2.73	1.638	27.727	36.949	45.760	2.642	218.9	-0.58	0.030	2.50	0.578	2572.1
2800	1.738	34.665	2.84	1.535	27.739	36.967	45.783	2.735	244.8	-0.46	0.026	2.09	0.528	2768.6
3000	1.667	34.670	2.97	1.447	27.749	36.982	45.802	2.828	272.1	-0.39	0.018	1.73	0.480	2964.9
3200	1.600	34.674	3.07	1.361	27.758	36.996	45.821	2.919	300.9	-0.43	0.019	1.95	0.510	3161.0
3400	1.538	34.678	3.22	1.281	27.767	37.009	45.838	3.009	331.1	-0.37	0.017	1.72	0.480	3356.9
3600	1.475	34.682	3.40	1.199	27.777	37.023	45.856	3.097	362.7	-0.39	0.019	1.84	0.495	3552.7
3800	1.429	34.686	3.58	1.133	27.784	37.034	45.871	3.185	395.7	-0.33	0.018	1.60	0.463	3748.2
4000	1.379	34.690	3.79	1.064	27.792	37.046	45.886	3.271	430.0	-0.33	0.019	1.67	0.472	3943.7
4200	1.336	34.694	3.99	0.999	27.800	37.058	45.901	3.356	465.6	-0.26	0.017	1.40	0.433	4138.9
4400	1.311	34.697	4.14	0.953	27.805	37.066	45.912	3.441	502.7	-0.25	0.016	1.38	0.429	4333.9
4600	1.293	34.700	4.29	0.913	27.810	37.073	45.921	3.525	541.4	-0.12	0.007	0.66	0.297	4528.8
4800	1.297	34.700	4.35	0.894	27.812	37.076	45.925	3.609	582.0	-0.05	0.002	0.28	0.194	4723.6
5000	1.315	34.701	4.37	0.887	27.813	37.077	45.926	3.695	624.9	-0.02	0.002	0.12	0.125	4918.1
5200	1.336	34.702	4.38	0.883	27.813	37.078	45.927	3.783	670.4	-0.02	0.002	0.12	0.126	5112.5
5400	1.360	34.702	4.38	0.881	27.814	37.078	45.928	3.872	718.5	0.00	0.002	0.04	0.074	5306.7
5600	1.386	34.702	4.40	0.880	27.814	37.079	45.928	3.962	769.4	0.00	0.002	0.04	0.071	5500.8
5800	1.412	34.703	4.42	0.880	27.814	37.079	45.929	4.055	823.1	0.00	0.002	0.04	0.077	5694.7
6000	1.439	34.703	4.39	0.880	27.815	37.079	45.929	4.149	879.9	0.00	0.003	0.04	0.000	5888.4
6019	1.442	34.703	4.39	0.880	27.815	37.079	45.929	4.158	885.5	-1.63	0.023	0.04	0.000	5906.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.2	27.174	27.173	22.402	30.661	38.568	34.651	34.649	4.84	1.21	0.11	-0.01	0.01			7	222222255
23	47.6	26.848	26.838	22.614	30.879	38.792	34.790	34.782	4.94	1.21	0.12	0.00	0.00			47	222222255
22	97.1	23.667	23.647	23.847	32.190	40.177	35.132	35.136	4.50	1.81	0.20	0.20	0.00			96	222222255
21	146.3	17.913	17.889	25.238	33.756	41.906	34.919	34.912	4.43	4.33	0.44	4.70	0.00			145	222222255
20	197.8	13.388	13.360	25.909	34.593	42.898	34.469	34.456	4.55	11.48	0.88	11.40	0.00			196	222222255
19	247.3	10.291	10.262	26.443	35.251	43.673	34.405		1.99	31.62	2.10	28.40	0.00			245	252222255
18	296.6	9.738	9.704	26.663	35.493	43.934	34.566	34.566	0.78	37.36	2.59	35.10	0.00			294	222222255
17	396.8	8.558	8.516	26.858	35.739	44.230	34.570	34.564	0.84	45.41	2.72	37.40	0.00			394	222222255
16	497.2	7.473	7.424	26.999	35.930	44.467	34.543	34.542	1.05	54.57	2.82	38.90	0.00			493	222222255
15	595.5	6.690	6.635	27.093	36.061	44.633	34.523	34.531	1.07	63.13	2.92	40.30	0.00			591	222222255
14	694.9	5.991	5.929	27.194	36.196	44.799	34.534	34.531	1.06	72.50	3.02	42.00	0.00			689	222222255
13	845.7	5.062	4.992	27.313	36.361	45.007	34.542	34.542	1.18	87.30	3.10	43.20	0.00			839	222222255
12	995.7	4.444	4.365	27.401	36.480	45.155	34.564	34.560	1.26	99.48	3.15	43.80	0.00			987	222222255
11	1497.8	2.944	2.837	27.576	36.734	45.484	34.594	34.601	2.03	129.69	2.98	41.60	0.00			1484	222222255
10	1999.1	2.217	2.077	27.674	36.872	45.660	34.636	34.634	2.42	147.31	2.87	40.80	0.00			1978	222222255
9	2497.4	1.868	1.691	27.721	36.941	45.748	34.657	34.657	2.74	153.85	2.79	39.90	0.00			2468	222222255
8	3000.9	1.669	1.449	27.749	36.982	45.802	34.669	34.669	3.05	156.07	2.70	39.10	0.00			2962	222222255
7	3502.3	1.514	1.247	27.769	37.014	45.844	34.678	34.678	3.37	155.16	2.64	38.10	0.00			3453	222222255
6	4002.7	1.380	1.064	27.791	37.046	45.886	34.689	34.690	3.82	144.39	2.53	36.80	0.00			3942	222222255
5	4502.9	1.294	0.925	27.806	37.068	45.916	34.696	34.704	4.23	133.92	2.43	35.10	0.00			4430	222222255
4	4753.2	1.294	0.896	27.810	37.074	45.923	34.698	34.700	4.34	132.51	2.39	35.00	0.00			4674	222222255
3	5003.2	1.315	0.887	27.812	37.076	45.926	34.700	34.700	4.33	131.40	2.39	35.00	0.00			4917	222222255
2	5504.3	1.374	0.882	27.813	37.077	45.927	34.701	34.701	4.45	131.30	2.39	35.00	0.00			5403	222222255
1	6022.8	1.442	0.879	27.814	37.079	45.929	34.702	34.701	4.37	131.10	2.40	35.10	0.00			5906	222222255

CRUISE: MW 893 STA: 92 DATE (D/M/Y): 12- 3-89 TIME: 0001 LAT: 9 29.82 N LONG: 176 19.56 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24063E-04 1/S SOUND SPEED= 1507.7 M/S Depth= 5347 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.515	34.016	5.13	27.515	21.814	30.072	37.978	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.515	34.016	5.13	27.514	21.814	30.072	37.978	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.429	34.425	4.96	27.424	22.151	30.406	38.310	0.116	0.1	-2.37	3.570	81.20	3.292	20.0
30	27.417	34.461	4.92	27.410	22.182	30.438	38.341	0.173	0.3	-0.62	4.894	91.34	3.491	30.0
40	27.414	34.484	4.87	27.405	22.202	30.457	38.361	0.229	0.5	-0.61	0.424	12.12	1.272	40.0
50	27.411	34.490	4.97	27.399	22.208	30.463	38.367	0.285	0.7	-1.63	1.336	36.05	2.193	50.0
100	24.853	35.150	5.04	24.831	23.507	31.819	39.776	0.546	2.7	-108.04	7.093	889.44	10.895	100.0
125	21.593	35.027	4.29	21.568	24.360	32.763	40.805	0.645	3.8	-141.01	-9.172	761.49	10.081	124.9
150	18.286	34.847	3.89	18.260	25.092	33.598	41.737	0.727	5.0	-122.90	-4.527	648.85	9.305	149.8
200	13.454	34.457	4.13	13.426	25.887	34.568	42.871	0.849	7.1	-79.54	-6.432	268.96	5.991	199.6
250	10.570	34.472	1.31	10.540	26.446	35.242	43.652	0.943	9.3	-24.18	3.106	159.41	4.612	249.4
300	9.851	34.560	0.67	9.816	26.640	35.465	43.902	1.020	11.4	-10.46	2.180	82.82	3.325	299.1
350	9.089	34.589	0.62	9.050	26.788	35.646	44.113	1.089	13.7	-12.01	-0.091	45.80	2.472	348.8
400	8.475	34.569	0.79	8.433	26.870	35.755	44.249	1.153	16.2	-10.92	-0.329	35.82	2.186	398.5
450	7.897	34.552	0.83	7.851	26.944	35.856	44.374	1.214	18.8	-11.42	-0.323	36.48	2.206	448.2
500	7.432	34.542	0.92	7.383	27.005	35.938	44.476	1.272	21.6	-7.68	-0.173	24.61	1.812	497.9
600	6.538	34.523	1.17	6.483	27.113	36.089	44.667	1.380	27.7	-8.33	-0.114	26.58	1.884	597.2
700	5.687	34.525	0.98	5.626	27.224	36.241	44.858	1.479	34.2	-6.65	0.056	23.37	1.766	696.4
800	5.336	34.542	1.04	5.268	27.281	36.315	44.948	1.570	41.2	-4.39	0.168	17.36	1.522	795.6
900	4.887	34.550	1.10	4.814	27.340	36.396	45.051	1.655	48.6	-4.25	0.066	14.72	1.402	894.7
1000	4.416	34.554	1.41	4.337	27.396	36.477	45.153	1.736	56.4	-4.35	0.079	15.05	1.417	993.7
1200	3.685	34.579	1.61	3.595	27.492	36.611	45.323	1.883	72.8	-2.94	0.119	11.19	1.222	1191.7
1400	3.118	34.593	1.94	3.017	27.559	36.707	45.448	2.014	90.2	-2.48	0.075	8.90	1.090	1389.5
1600	2.698	34.610	2.14	2.585	27.611	36.782	45.545	2.135	108.6	-2.04	0.100	8.05	1.037	1587.1
1800	2.379	34.627	2.32	2.253	27.653	36.842	45.621	2.245	127.8	-1.47	0.066	5.72	0.874	1784.5
2000	2.158	34.638	2.43	2.019	27.680	36.882	45.673	2.349	148.0	-1.06	0.051	4.26	0.754	1981.7
2200	2.003	34.648	2.55	1.850	27.701	36.912	45.712	2.449	169.3	-0.69	0.040	2.95	0.627	2178.7
2400	1.897	34.655	2.65	1.728	27.717	36.935	45.740	2.546	192.0	-0.66	0.040	2.90	0.622	2375.5
2600	1.793	34.662	2.77	1.607	27.731	36.955	45.767	2.641	216.2	-0.55	0.027	2.34	0.559	2572.1
2800	1.711	34.667	2.84	1.509	27.743	36.972	45.789	2.733	241.7	-0.48	0.029	2.21	0.543	2768.6
3000	1.643	34.672	3.00	1.423	27.752	36.987	45.808	2.825	268.7	-0.44	0.023	1.98	0.515	2964.9
3200	1.576	34.676	3.16	1.338	27.762	37.001	45.827	2.915	297.2	-0.44	0.019	1.96	0.511	3161.0
3400	1.521	34.679	3.27	1.265	27.770	37.013	45.843	3.004	327.1	-0.37	0.017	1.68	0.474	3356.9
3600	1.462	34.684	3.43	1.187	27.779	37.026	45.860	3.091	358.5	-0.37	0.017	1.75	0.483	3552.7
3800	1.401	34.688	3.62	1.106	27.787	37.039	45.877	3.178	391.1	-0.40	0.022	1.99	0.515	3748.2
4000	1.355	34.692	3.82	1.040	27.795	37.051	45.892	3.263	425.1	-0.35	0.022	1.82	0.493	3943.6
4200	1.323	34.695	4.00	0.987	27.801	37.060	45.904	3.348	460.4	-0.26	0.016	1.38	0.429	4138.9
4400	1.265	34.700	4.23	0.909	27.810	37.073	45.922	3.431	497.0	-0.31	0.019	1.69	0.475	4333.9
4600	1.272	34.701	4.30	0.892	27.812	37.076	45.925	3.514	535.1	-0.07	0.005	0.40	0.230	4528.8
4800	1.287	34.702	4.33	0.884	27.813	37.078	45.927	3.598	575.4	-0.02	0.001	0.11	0.121	4723.5
5000	1.310	34.702	4.34	0.882	27.813	37.078	45.928	3.684	618.2	-0.02	0.002	0.12	0.126	4918.1
5200	1.330	34.702	4.35	0.877	27.814	37.079	45.929	3.771	663.5	-0.03	0.002	0.18	0.154	5112.5
5400	1.349	34.703	4.33	0.871	27.815	37.080	45.930	3.860	711.4	-0.03	0.003	0.18	0.000	5306.7
5407	1.350	34.703	4.32	0.871	27.815	37.080	45.931	3.863	713.1	-0.03	0.004	0.18	0.000	5313.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.6	27.517	27.517	22.167	30.419	38.320	34.485	34.482	5.19	0.40	0.15	0.00	0.00	1.608	0.849	4	222222222
23	47.5	27.392	27.382	22.222	30.477	38.381	34.500	34.491	4.94	0.30	0.16	0.00	0.00	1.595	0.855	47	222222222
22	95.7	24.779	24.759	23.446	31.761	39.721	35.040	35.028	4.93	0.20	0.20	0.00	0.00	1.762	0.913	95	222222222
21	148.4	17.676	17.650	25.223	33.750	41.908	34.823	34.828	3.96	4.13	0.63	7.00	0.00	1.837	0.950	147	222222222
20	198.4	12.844	12.817	25.973	34.678	43.003	34.411	34.417	4.16	11.98	1.04	13.60	0.00	1.753	0.895	197	222222222
19	247.9	10.398	10.369	26.479	35.281	43.698	34.475	34.478	1.34	31.42	2.30	30.80	0.00	0.360	0.180	246	222222222
18	296.3	9.763	9.729	26.673	35.501	43.942	34.584	34.580	0.69	36.15	2.59	35.30	0.00	0.067		294	222222225
17	397.0	8.602	8.560	26.853	35.733	44.221	34.573	34.572	0.74	43.20	2.68	37.30	0.00	0.019		394	222222225
16	496.5	7.396	7.348	27.009	35.944	44.484	34.542	34.541	0.89	53.97	2.83	39.30	0.00	-0.001	0.019	493	222222222
15	597.0	6.570	6.515	27.108	36.081	44.658	34.521	34.522	1.12	62.53	2.87	40.10	0.00	0.000	0.013	592	222222252
14	696.7	5.857	5.795	27.201	36.209	44.819	34.522	34.523	0.94	73.71	3.03	42.20	0.00	0.004	0.019	691	222222222
13	797.1	5.293	5.226	27.276	36.313	44.948	34.530	34.527	1.09	86.59	3.06	42.80	0.00	-0.004	0.007	791	222222222
12	996.9	4.385	4.306	27.401	36.483	45.161	34.556	34.554	1.44	102.30	3.05	42.70	0.00	-0.006	0.001	988	222222222
11	1247.6	3.582	3.489	27.505	36.629	45.346	34.582	34.580	1.65	119.42	3.03	42.80	0.00		-0.005	1236	222222252
10	1498.2	2.987	2.879	27.574	36.730	45.478	34.596	34.595	1.96	132.51	2.95	41.60	0.00	-0.004	0.008	1484	222222222
9	1999.0	2.204	2.065	27.674	36.874	45.662	34.635	34.632	2.38	149.52	2.83	40.50	0.00		-0.005	1978	222222252
8	2500.9	1.854	1.676	27.724	36.944	45.752	34.659	34.656	2.72	156.37	2.77	39.60	0.00	-0.005	-0.005	2472	222222222
7	3003.2	1.659	1.439	27.751	36.985	45.805	34.672	34.669	3.03	157.48	2.66	38.90	0.00	-0.008	-0.005	2965	222222222
6	3502.5	1.501	1.235	27.773	37.018	45.849	34.681	34.679	3.39	154.46	2.58	37.70	0.00	-0.008	-0.004	3454	222222222
5	4005.6	1.357	1.042	27.795	37.050	45.892	34.692	34.690	3.85	145.20	2.48	36.40	0.00	-0.001	-0.005	3945	222222222
4	4505.4	1.267	0.899	27.810	37.074	45.923	34.699	34.702	4.30	133.51	2.36	35.00	0.00	0.001	-0.005	4433	222222222
3	4755.2	1.283	0.885	27.812	37.077	45.926	34.701	34.703	4.33	132.11	2.35	34.60	0.00	0.018	0.019	4676	222222222
2	5006.2	1.311	0.882	27.812	37.077	45.927	34.701	34.702	4.35	132.00	2.35	34.60	0.00	0.013	0.007	4920	222222222
1	5410.1	1.350	0.870	27.814	37.079	45.930	34.701	34.702		132.00	2.35	34.70	0.00	0.000	0.001	5312	225222252

CRUISE: MW 893 STA: 93 DATE (D/M/Y): 12- 3-89 TIME: 0848 LAT: 9 29.87 N LONG: 177 9.97 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1505.0 M/S Depth= 4896 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.497	34.424	5.19	27.497	22.127	30.381	38.283	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.497	34.424	5.19	27.497	22.127	30.381	38.283	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.523	34.416	5.09	27.518	22.114	30.367	38.269	0.114	0.1	-0.05	0.515	9.50	1.126	20.0
30	27.517	34.423	4.91	27.510	22.122	30.375	38.277	0.171	0.3	-1.26	0.459	17.74	1.538	30.0
40	27.504	34.429	4.86	27.495	22.131	30.385	38.287	0.228	0.5	-2.95	1.184	43.34	2.405	40.0
50	27.489	34.438	4.83	27.477	22.144	30.398	38.300	0.285	0.7	-0.49	0.581	14.04	1.369	50.0
100	23.323	34.947	4.61	23.303	23.808	32.163	40.160	0.543	2.7	-142.66	1.200	992.80	11.510	100.0
125	19.492	34.856	3.72	19.469	24.792	33.260	41.363	0.634	3.7	-151.26	-9.320	778.54	10.192	124.9
150	16.632	34.676	3.22	16.608	25.359	33.923	42.115	0.707	4.7	-107.38	-6.849	458.32	7.820	149.8
200	12.091	34.552	1.52	12.064	26.229	34.962	43.312	0.817	6.7	-48.99	1.370	252.85	5.808	199.6
250	10.775	34.657	0.64	10.745	26.555	35.340	43.739	0.900	8.6	-14.09	1.880	95.47	3.569	249.4
300	10.124	34.686	0.52	10.089	26.692	35.503	43.928	0.974	10.6	-12.29	-0.304	45.84	2.473	299.1
350	9.687	34.667	0.67	9.647	26.752	35.583	44.025	1.043	12.9	-7.27	-0.187	26.42	1.878	348.8
400	9.386	34.656	0.73	9.341	26.794	35.638	44.093	1.110	15.5	-8.33	-0.232	29.45	1.982	398.5
450	8.873	34.640	0.37	8.824	26.865	35.731	44.208	1.175	18.3	-9.65	-0.488	29.17	1.973	448.2
500	8.285	34.607	0.45	8.232	26.930	35.824	44.325	1.237	21.3	-13.65	-0.746	38.63	2.270	497.8
600	7.296	34.555	0.81	7.237	27.036	35.975	44.520	1.352	27.8	-8.08	-0.371	22.52	1.734	597.1
700	6.374	34.530	1.08	6.310	27.141	36.125	44.711	1.460	34.9	-8.44	-0.130	27.15	1.903	696.4
800	5.699	34.537	1.00	5.629	27.234	36.250	44.866	1.558	42.4	-6.88	0.047	24.00	1.790	795.5
900	5.055	34.542	1.18	4.980	27.315	36.363	45.010	1.648	50.2	-6.48	0.057	22.08	1.717	894.7
1000	4.538	34.554	1.31	4.459	27.383	36.457	45.128	1.730	58.2	-4.31	0.103	15.51	1.439	993.7
1200	3.791	34.574	1.56	3.700	27.478	36.591	45.298	1.880	74.9	-3.10	0.099	11.33	1.230	1191.7
1400	3.166	34.590	1.85	3.065	27.552	36.698	45.436	2.014	92.6	-2.83	0.074	9.95	1.152	1389.5
1600	2.685	34.608	2.05	2.572	27.610	36.783	45.545	2.134	111.1	-2.30	0.102	8.84	1.086	1587.1
1800	2.337	34.625	2.23	2.212	27.654	36.846	45.627	2.244	130.1	-1.39	0.074	5.58	0.863	1784.5
2000	2.107	34.640	2.41	1.969	27.686	36.890	45.684	2.347	150.0	-0.97	0.057	4.07	0.737	1981.7
2200	1.950	34.651	2.58	1.797	27.708	36.922	45.724	2.445	171.0	-0.81	0.049	3.48	0.681	2178.7
2400	1.828	34.659	2.71	1.660	27.725	36.946	45.755	2.540	193.3	-0.59	0.032	2.55	0.583	2375.5
2600	1.753	34.664	2.78	1.568	27.736	36.962	45.776	2.633	217.0	-0.49	0.027	2.13	0.534	2572.1
2800	1.685	34.670	2.91	1.483	27.746	36.978	45.796	2.724	242.2	-0.40	0.025	1.83	0.494	2768.6
3000	1.631	34.673	3.02	1.411	27.754	36.990	45.812	2.815	269.0	-0.37	0.018	1.65	0.469	2964.9
3200	1.577	34.676	3.14	1.339	27.762	37.001	45.827	2.905	297.4	-0.37	0.016	1.64	0.468	3161.0
3400	1.526	34.680	3.30	1.270	27.770	37.013	45.842	2.994	327.4	-0.42	0.021	1.97	0.513	3356.9
3600	1.467	34.684	3.47	1.191	27.778	37.026	45.859	3.082	358.8	-0.35	0.017	1.67	0.472	3552.7
3800	1.418	34.687	3.62	1.122	27.786	37.037	45.874	3.169	391.6	-0.43	0.022	2.10	0.529	3748.2
4000	1.364	34.691	3.82	1.049	27.794	37.049	45.890	3.255	425.7	-0.33	0.016	1.63	0.467	3943.6
4200	1.332	34.694	3.96	0.996	27.800	37.058	45.902	3.339	461.2	-0.27	0.017	1.43	0.437	4138.9
4400	1.292	34.698	4.15	0.935	27.807	37.069	45.916	3.424	498.1	-0.27	0.016	1.43	0.437	4333.9
4600	1.283	34.700	4.29	0.903	27.811	37.074	45.923	3.507	536.5	-0.09	0.005	0.48	0.252	4528.8
4800	1.293	34.701	4.32	0.890	27.812	37.076	45.926	3.592	577.0	-0.11	0.007	0.62	0.288	4723.5
4977	1.293	34.703	4.33	0.868	27.815	37.080	45.931	3.667	614.6	-0.07	0.004	0.62	0.000	4895.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	5.9	27.473	27.472	22.125	30.380	38.282	34.411	34.410	5.05	1.31	0.17	0.01	-0.01			5	222222255
23	45.9	27.476	27.465	22.143	30.397	38.300	34.432	34.428	5.06	1.41	0.21	0.01	-0.01			45	222222255
22	97.0	22.275	22.256	24.099	32.484	40.508	34.937	34.944	4.62	2.62	0.34	0.67	0.03			96	222222255
21	145.7	16.090	16.066	25.468	34.051	42.261	34.656	34.647	3.24	9.87	1.05	12.40	0.00			144	222222255
20	196.3	12.384	12.358	26.174	34.895	43.235	34.554	34.553	1.91	24.27	1.88	24.90	0.00			195	222222255
19	245.1	10.870	10.840	26.518	35.299	43.695	34.632	34.642	0.67							243	222555555
18	297.3	10.116	10.081	26.691	35.503	43.928	34.683	34.680	0.56	34.23	2.55	35.20	0.00			295	222222255
17	395.4	9.235	9.191	26.819	35.669	44.130	34.657	34.652	0.51	39.27	2.69	37.10	0.00			392	222222255
16	497.1	8.201	8.149	26.940	35.837	44.342	34.603	34.599	0.49	48.13	2.87	38.50	0.00			493	222222255
15	596.5	7.274	7.216	27.039	35.979	44.525	34.556	34.559	0.58	56.99	2.98	39.80	0.00			592	222222255
14	698.3	6.425	6.361	27.137	36.118	44.702	34.533	34.534	0.98	65.65	2.93	40.20	0.00			693	222222255
13	798.4	5.708	5.638	27.231	36.246	44.863	34.535	34.530	1.04	75.92	3.02	41.30	0.00			792	222222255
12	997.9	4.603	4.523	27.373	36.444	45.112	34.551	34.530	1.33	95.76	3.05	41.80	0.00			989	222222255
11	1246.9	3.739	3.645	27.484	36.600	45.310	34.575	34.567	1.59	113.78	3.02	41.60	0.00			1236	222222255
10	1499.1	2.936	2.829	27.579	36.738	45.488	34.597	34.593	1.97	131.70	2.94	40.80	0.00			1485	222222255
9	2001.8	2.142	2.003	27.681	36.884	45.675	34.637	34.633	2.39	149.73	2.84	39.80	0.00			1981	222222255
8	2501.1	1.816	1.639	27.727	36.950	45.760	34.660	34.658	2.76	155.36	2.78	38.90	0.00			2472	222222255
7	3001.9	1.644	1.424	27.754	36.988	45.809	34.674	34.669	3.03	156.07	2.69	38.10	0.00			2963	222222255
6	3502.6	1.509	1.243	27.773	37.017	45.848	34.681	34.680	3.38	152.65	2.60	37.20	0.00			3454	222222255
5	4003.0	1.375	1.059	27.792	37.047	45.887	34.689	34.688	3.79	144.89	2.50	35.70	0.00			3943	222222255
4	4255.1	1.322	0.980	27.802	37.061	45.905	34.695	34.692	4.03	139.35	2.44	35.10	0.00			4189	222222255
3	4505.1	1.285	0.916	27.809	37.072	45.919	34.699	34.701	4.21	133.31	2.39	34.20	0.00			4432	222222255
2	4754.8	1.289	0.891	27.812	37.076	45.925	34.701	34.703	4.30	131.80	2.37	34.09	0.01			4675	222222255
1	4978.9	1.293	0.868	27.815	37.080	45.930	34.702	34.701	4.38	130.59	2.36	33.79	0.01			4893	222222255

CRUISE: MW 893 STA: 94 DATE (D/M/Y): 12- 3-89 TIME: 1700 LAT: 9 29.45 N LONG: 177 59.78 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24048E-04 1/S SOUND SPEED= 1508.3 M/S Depth= 5364 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.421	34.390	4.97	27.421	22.126	30.381	38.286	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.421	34.390	4.97	27.421	22.126	30.382	38.286	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.441	34.387	4.78	27.436	22.119	30.374	38.278	0.114	0.1	0.03	0.034	0.40	0.230	20.0
30	27.444	34.387	4.79	27.437	22.119	30.374	38.278	0.171	0.3	-0.18	0.008	1.54	0.453	30.0
40	27.444	34.387	4.87	27.435	22.119	30.374	38.278	0.228	0.5	0.01	-0.036	-0.71	-0.307	40.0
50	27.446	34.387	4.70	27.434	22.119	30.374	38.278	0.285	0.7	-0.18	0.010	1.53	0.453	50.0
100	21.874	34.856	4.41	21.854	24.151	32.547	40.584	0.542	2.7	-196.68	1.346	1325.30	13.303	100.0
125	17.382	34.774	3.89	17.361	25.255	33.792	41.960	0.623	3.6	-174.46	-12.683	803.81	10.360	124.9
150	14.210	34.524	3.97	14.188	25.780	34.432	42.707	0.684	4.4	-89.36	-7.300	321.41	6.551	149.8
200	11.330	34.635	0.70	11.305	26.436	35.198	43.576	0.778	6.1	-18.96	3.009	138.25	4.297	199.6
250	10.444	34.688	0.56	10.414	26.637	35.435	43.847	0.854	7.8	-11.66	-0.187	45.93	2.477	249.3
300	9.992	34.676	0.66	9.957	26.706	35.524	43.954	0.925	9.8	-7.19	-0.107	27.82	1.927	299.0
350	9.597	34.673	0.64	9.558	26.772	35.606	44.052	0.994	12.1	-9.63	-0.349	32.76	2.092	348.7
400	9.229	34.661	0.50	9.184	26.823	35.674	44.135	1.060	14.6	-6.47	-0.173	22.72	1.742	398.4
450	8.849	34.639	0.59	8.800	26.867	35.735	44.212	1.124	17.4	-8.54	-0.396	26.37	1.877	448.1
500	8.372	34.616	0.65	8.319	26.924	35.813	44.311	1.186	20.4	-10.72	-0.525	31.61	2.054	497.8
600	7.394	34.571	0.64	7.335	27.034	35.969	44.509	1.303	27.0	-10.51	-0.400	30.97	2.033	597.1
700	6.437	34.544	0.93	6.372	27.144	36.125	44.708	1.410	34.0	-7.37	-0.091	23.95	1.788	696.3
800	5.830	34.542	0.99	5.760	27.221	36.231	44.842	1.508	41.5	-5.66	0.001	19.11	1.597	795.5
900	5.230	34.545	1.12	5.154	27.297	36.337	44.975	1.600	49.5	-5.82	0.060	20.18	1.642	894.6
1000	4.709	34.552	1.47	4.628	27.362	36.428	45.091	1.685	57.7	-4.10	0.107	15.15	1.423	993.7
1200	3.916	34.573	1.70	3.824	27.465	36.571	45.273	1.839	75.0	-3.78	0.112	13.90	1.362	1191.7
1400	3.386	34.587	2.01	3.282	27.529	36.664	45.391	1.977	93.2	-2.89	0.080	10.36	1.176	1389.5
1600	2.794	34.609	2.31	2.680	27.601	36.768	45.525	2.102	112.3	-2.66	0.104	10.04	1.158	1587.0
1800	2.425	34.626	2.52	2.299	27.648	36.835	45.611	2.213	131.7	-1.29	0.049	4.86	0.806	1784.4
2000	2.166	34.637	2.65	2.027	27.679	36.880	45.671	2.319	152.1	-1.28	0.069	5.28	0.839	1981.6
2200	1.982	34.649	2.80	1.829	27.704	36.916	45.717	2.418	173.3	-0.79	0.044	3.34	0.668	2178.6
2400	1.864	34.657	2.92	1.695	27.721	36.940	45.748	2.514	195.8	-0.55	0.039	2.50	0.578	2375.5
2600	1.779	34.665	3.03	1.593	27.734	36.959	45.772	2.608	219.7	-0.47	0.023	2.03	0.520	2572.1
2800	1.724	34.668	3.12	1.522	27.742	36.971	45.787	2.700	245.2	-0.28	0.013	1.22	0.404	2768.6
3000	1.670	34.672	3.22	1.450	27.751	36.984	45.804	2.792	272.4	-0.45	0.021	2.00	0.516	2964.8
3200	1.608	34.675	3.34	1.369	27.759	36.996	45.821	2.883	301.2	-0.34	0.017	1.54	0.453	3161.0
3400	1.548	34.680	3.46	1.291	27.768	37.010	45.838	2.973	331.5	-0.38	0.018	1.76	0.485	3356.9
3600	1.509	34.682	3.57	1.233	27.774	37.019	45.851	3.062	363.3	-0.35	0.018	1.68	0.474	3552.6
3800	1.442	34.687	3.72	1.146	27.784	37.034	45.870	3.150	396.6	-0.46	0.025	2.28	0.551	3748.2
4000	1.389	34.690	3.90	1.073	27.792	37.046	45.885	3.237	431.0	-0.31	0.017	1.54	0.454	3943.6
4200	1.337	34.695	4.06	1.001	27.800	37.058	45.901	3.322	466.7	-0.39	0.022	2.03	0.521	4138.9
4400	1.302	34.697	4.21	0.944	27.806	37.067	45.913	3.407	503.7	-0.23	0.015	1.24	0.406	4333.9
4600	1.282	34.700	4.34	0.902	27.811	37.075	45.923	3.491	542.2	-0.20	0.012	1.08	0.379	4528.8
4800	1.292	34.702	4.39	0.889	27.813	37.077	45.926	3.575	582.6	-0.05	0.003	0.29	0.198	4723.5
5000	1.307	34.702	4.41	0.879	27.814	37.079	45.929	3.660	625.4	-0.04	0.003	0.21	0.167	4918.1
5200	1.324	34.703	4.42	0.871	27.815	37.080	45.931	3.747	670.5	-0.04	0.003	0.23	0.176	5112.5
5400	1.345	34.703	4.43	0.867	27.816	37.081	45.932	3.836	718.3	-0.01	0.003	0.23	0.000	5306.7
5451	1.351	34.703	4.40	0.866	27.816	37.081	45.932	3.858	730.9	-0.01	0.003	0.23	0.000	5356.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL PSS78	SALNTY PSS78	OXYGEN ML/L	SILCAT UMOL/L	PHSPHT UMOL/L	NITRAT UMOL/L	NITRIT UMOL/L	CFC-11 PM/KG	CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.8	27.444	27.443	22.120	30.375	38.278	34.391	34.391	4.81	1.81	0.13	0.00	0.00			6	222222255
23	46.7	27.441	27.431	22.126	30.382	38.286	34.395	34.390	4.92	1.81	0.14	0.00	0.00			46	222222255
22	96.5	21.866	21.847	24.229	32.625	40.660	34.956	34.863	4.34	3.22	0.32	0.86	0.04			95	222222255
21	148.5	14.760	14.738	25.709	34.340	42.595	34.584	34.576	3.97	10.07	0.84	10.47	0.03			147	222222255
20	197.5	11.314	11.289	26.438	35.201	43.579	34.634	34.630	0.80	30.01	2.37	32.40	0.00			196	222222255
19	295.9	10.012	9.978	26.710	35.526	43.955	34.685	34.679	0.54	32.32	2.55	35.70	0.00			294	222222255
18	396.5	9.221	9.177	26.818	35.669	44.131	34.653	34.648		39.27	2.66	37.40	0.00			393	225222255
17	496.2	8.320	8.268	26.929	35.821	44.321	34.612	34.607	0.53	47.42	2.83	38.10	0.00			492	222222255
16	593.7	7.558	7.499	27.013	35.940	44.473	34.574	34.573	0.65	55.18	2.97	39.50	0.00			589	222222255
15	796.9	5.979	5.907	27.202	36.204	44.808	34.541	34.535	1.09	72.70	3.04	42.00	0.00			790	222222255
14	997.9	4.746	4.665	27.357	36.421	45.082	34.550	34.546		92.63	3.01	42.00	0.00			989	225222255
13	1248.4	3.733	3.638	27.486	36.602	45.312	34.576	34.571		113.58	2.99	41.70	0.00			1237	225222255
12	1497.6	3.193	3.083	27.554	36.700	45.437	34.595	34.590		124.65	2.93	41.20	0.00			1483	225222255
11	1750.6	2.516	2.393	27.637	36.818	45.590	34.622			139.66	2.86	40.10	0.00			1733	255222255
9	2501.7	1.797	1.620	27.733	36.956	45.768	34.666	34.661		155.06	2.69	38.80	0.00			2472	225222255
8	3002.8	1.640	1.420	27.753	36.988	45.809	34.672	34.669	3.19	154.76	2.63	37.90	0.00			2964	222222255
7	3503.1	1.517	1.250	27.772	37.016	45.847	34.681	34.679		152.65	2.56	37.00	0.00			3454	225222255
6	4004.0	1.388	1.072	27.791	37.045	45.885	34.690	34.690	3.91	145.20	2.47	35.70	0.00			3944	222222255
5	4253.6	1.324	0.982	27.801	37.060	45.905	34.695	34.690	4.04	139.35	2.41	35.10	0.00			4187	222222255
4	4503.0	1.297	0.928	27.807	37.069	45.917	34.698	34.693	4.39	134.72	2.36	34.40	0.00			4430	222222255
3	4753.6	1.289	0.891	27.811	37.075	45.925	34.700	34.697	4.33	131.20	2.32	33.90	0.00			4674	222222255
2	5003.3	1.307	0.879	27.813	37.078	45.928	34.701	34.701	4.41	130.90	2.34	33.90	0.00			4917	222222255
1	5453.7	1.351	0.866	27.816	37.081	45.932	34.703			130.49	2.33	33.80	0.00			5354	255222255

CRUISE: MW 893 STA: 95 DATE (D/M/Y): 13- 3-89 TIME: 0136 LAT: 9 29.55 N LONG: 178 49.63 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1509.2 M/S Depth= 5483 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.610	34.428	4.29	27.610	22.093	30.344	38.244	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.610	34.428	4.29	27.609	22.093	30.344	38.244	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.419	34.423	4.42	27.414	22.153	30.409	38.313	0.114	0.1	-1.56	0.108	13.72	1.353	20.0
30	27.410	34.424	4.38	27.403	22.157	30.413	38.317	0.171	0.3	-0.86	0.037	7.15	0.977	30.0
40	27.405	34.424	4.35	27.396	22.160	30.416	38.320	0.228	0.5	-0.41	0.172	6.11	0.903	40.0
50	27.407	34.428	4.31	27.396	22.163	30.419	38.323	0.284	0.7	-0.34	0.489	11.21	1.223	50.0
100	22.715	34.812	4.27	22.695	23.880	32.254	40.268	0.545	2.7	-157.82	1.794	1108.71	12.166	100.0
125	19.598	34.787	3.52	19.575	24.711	33.177	41.278	0.637	3.7	-176.74	-1.544	1035.17	11.756	124.9
150	15.578	34.639	3.69	15.555	25.571	34.172	42.399	0.704	4.7	-116.54	-10.128	410.54	7.403	149.8
200	11.439	34.558	0.98	11.414	26.356	35.114	43.490	0.805	6.5	-25.09	4.914	201.64	5.189	199.6
250	10.587	34.696	0.54	10.556	26.618	35.410	43.816	0.883	8.2	-13.00	-0.092	53.84	2.681	249.3
300	9.963	34.683	0.58	9.928	26.717	35.535	43.966	0.954	10.2	-11.95	-0.396	42.36	2.378	299.1
350	9.578	34.670	0.54	9.539	26.773	35.608	44.054	1.023	12.5	-5.75	-0.091	21.78	1.705	348.8
400	9.281	34.655	0.52	9.236	26.810	35.659	44.118	1.089	15.0	-8.20	-0.436	24.98	1.826	398.5
450	8.755	34.627	0.53	8.707	26.873	35.745	44.226	1.153	17.8	-11.33	-0.676	32.07	2.069	448.2
500	8.254	34.599	0.63	8.202	26.929	35.824	44.326	1.215	20.8	-10.37	-0.734	26.17	1.869	497.8
600	7.345	34.565	0.60	7.286	27.036	35.973	44.515	1.332	27.4	-10.15	-0.234	32.48	2.082	597.1
700	6.413	34.548	0.73	6.349	27.150	36.132	44.716	1.438	34.4	-6.84	0.000	23.77	1.781	696.3
800	5.675	34.545	1.08	5.605	27.243	36.260	44.877	1.535	41.8	-6.60	0.028	22.77	1.743	795.5
900	5.160	34.548	0.91	5.084	27.307	36.350	44.992	1.625	49.6	-4.99	0.045	17.09	1.510	894.6
1000	4.711	34.552	1.25	4.630	27.362	36.428	45.091	1.709	57.8	-4.10	0.072	14.46	1.389	993.7
1200	3.950	34.572	1.49	3.858	27.460	36.565	45.265	1.864	75.1	-3.44	0.106	12.67	1.301	1191.7
1400	3.313	34.590	1.83	3.210	27.538	36.677	45.408	2.002	93.3	-3.32	0.074	11.57	1.243	1389.5
1600	2.810	34.605	2.08	2.696	27.597	36.762	45.519	2.125	112.2	-2.19	0.093	8.40	1.059	1587.1
1800	2.415	34.623	2.26	2.290	27.647	36.834	45.611	2.238	131.7	-1.77	0.081	6.94	0.963	1784.5
2000	2.184	34.636	2.41	2.044	27.677	36.877	45.667	2.343	152.1	-1.10	0.069	4.71	0.793	1981.7
2200	2.010	34.648	2.56	1.857	27.701	36.912	45.711	2.443	173.5	-0.83	0.049	3.55	0.689	2178.7
2400	1.894	34.657	2.67	1.724	27.718	36.936	45.742	2.540	196.2	-0.53	0.032	2.33	0.558	2375.5
2600	1.796	34.663	2.78	1.610	27.731	36.956	45.767	2.634	220.3	-0.53	0.027	2.31	0.555	2572.1
2800	1.733	34.667	2.88	1.530	27.741	36.969	45.785	2.727	245.9	-0.46	0.021	2.00	0.517	2768.6
3000	1.648	34.673	3.02	1.428	27.753	36.987	45.808	2.819	273.0	-0.49	0.024	2.20	0.541	2964.9
3200	1.578	34.677	3.17	1.340	27.762	37.002	45.827	2.909	301.5	-0.40	0.019	1.83	0.494	3161.0
3400	1.513	34.681	3.32	1.256	27.772	37.015	45.845	2.998	331.4	-0.38	0.018	1.77	0.486	3356.9
3600	1.466	34.685	3.48	1.190	27.779	37.027	45.860	3.086	362.7	-0.37	0.024	1.89	0.502	3552.7
3800	1.420	34.688	3.64	1.125	27.786	37.038	45.874	3.172	395.4	-0.31	0.014	1.48	0.445	3748.2
4000	1.372	34.692	3.81	1.057	27.794	37.049	45.889	3.258	429.6	-0.38	0.019	1.91	0.505	3943.6
4200	1.336	34.695	3.97	1.000	27.801	37.059	45.902	3.343	465.1	-0.24	0.013	1.23	0.405	4138.9
4400	1.309	34.698	4.11	0.951	27.806	37.067	45.913	3.427	502.1	-0.24	0.013	1.27	0.412	4333.9
4600	1.293	34.700	4.22	0.912	27.810	37.073	45.921	3.512	540.7	-0.11	0.006	0.60	0.284	4528.8
4800	1.294	34.701	4.29	0.890	27.813	37.077	45.926	3.596	581.3	-0.13	0.008	0.76	0.318	4723.5
5000	1.295	34.703	4.36	0.867	27.816	37.081	45.931	3.681	623.9	-0.11	0.007	0.65	0.295	4918.1
5200	1.306	34.704	4.41	0.854	27.817	37.083	45.934	3.768	668.7	-0.04	0.003	0.25	0.183	5112.5
5400	1.325	34.705	4.43	0.847	27.818	37.085	45.936	3.855	716.0	-0.03	0.003	0.20	0.162	5306.7
5581	1.346	34.705	4.40	0.844	27.818	37.085	45.937	3.936	761.0	-0.03	0.003	0.20	0.000	5482.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.3	27.448	27.447	22.130	30.385	38.289	34.407	34.407	5.14	1.21	0.14	0.00	0.00	1.635	0.863	8	222222222
23	48.3	27.378	27.366	22.162	30.418	38.324	34.414	34.410	5.14	1.41	0.16	0.00	0.00	1.628	0.866	48	222222222
22	96.6	20.753	20.735	24.586	33.014	41.079	35.025	34.813	4.35	3.02	0.43	1.86	0.14	1.783	0.956	96	222222222
21	145.6	14.743	14.721	25.737	34.368	42.623	34.615	34.601	3.74	10.07	0.94	11.66	0.04	1.732	0.878	144	222222222
20	196.2	11.559	11.534	26.325	35.079	43.450	34.547	34.544	1.16	28.50	2.26	30.00	0.00	0.452	0.260	195	222222222
19	246.9	10.663	10.633	26.608	35.397	43.800	34.700	34.700	0.54	32.72	2.51	35.20	0.00	0.106	0.057	245	222222222
18	295.6	9.984	9.950	26.718	35.535	43.965	34.688	34.685	0.59	35.04	2.55	36.10	0.00	0.042	0.028	293	222222222
17	397.2	9.189	9.145	26.817	35.669	44.132	34.644	34.657	0.49	40.28	2.70	37.60	0.00	0.022		394	222222225
16	496.1	8.263	8.211	26.922	35.816	44.319	34.592	34.598	0.66	48.23	2.83	38.20	0.00	0.013		492	222222225
15	596.7	7.242	7.184	27.049	35.990	44.537	34.562	34.565	0.61	58.80	3.00	40.30	0.00	0.010	0.014	592	222222222
14	696.7	6.426	6.362	27.149	36.130	44.713	34.548	34.545	0.73	67.26	3.05	41.90	0.00	0.010	0.008	691	222222222
13	796.2	5.780	5.710	27.225	36.238	44.851	34.539	34.541	1.00	74.91	3.08	42.60	0.00	0.008		790	222222225
12	996.9	4.746	4.665	27.360	36.424	45.085	34.554	34.552	1.24	92.74	3.10	42.90	0.00	-0.001	0.007	988	222222222
11	1246.6	3.850	3.754	27.473	36.583	45.288	34.575	34.572	1.53	112.07	3.07	42.60	0.00			1235	222222255
10	1497.6	3.078	2.969	27.566	36.717	45.460	34.597	34.594	1.94	129.19	2.96	41.30	0.00			1483	222222255
9	1999.0	2.122	1.984	27.686	36.890	45.682	34.642	34.638	2.47	151.84	2.85	40.20	0.00			1978	222222255
8	2500.3	1.829	1.652	27.727	36.949	45.759	34.661	34.661	2.73	156.98	2.78	39.50	0.00			2471	222222255
7	3001.6	1.639	1.419	27.754	36.989	45.811	34.674	34.676	3.04	158.18	2.68	38.60	0.00			2963	222222255
6	3502.5	1.481	1.215	27.776	37.022	45.854	34.683	34.681	3.44	154.36	2.60	37.30	0.00			3454	222222255
5	4004.9	1.363	1.048	27.795	37.051	45.892	34.693	34.692	3.83	145.40	2.49	36.00	0.00			3945	222222255
4	4505.8	1.293	0.924	27.808	37.070	45.918	34.699	34.700	4.19	135.33	2.39	34.90	0.00			4433	222222255
3	5005.9	1.296	0.868	27.814	37.080	45.930	34.702	34.704	4.36	131.00	2.36	34.30	0.00			4920	222222255
2	5254.4	1.311	0.852	27.817	37.083	45.935	34.704	34.703	4.39	130.80	2.36	34.30	0.00	0.021	0.012	5161	222222222
1	5584.4	1.346	0.844	27.818	37.085	45.936	34.704	34.703	4.40		2.34	34.30	0.00			5481	222522255

CRUISE: MW 893 STA: 96 DATE (D/M/Y): 13- 3-89 TIME: 1035 LAT: 9 29.90 N LONG: 179 39.73 E

GRAVITY= 9.7817 M/S CORIOLIS= 0.24067E-04 1/S SOUND SPEED= 1513.1 M/S Depth= 6037 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.239	34.407	5.03	27.239	22.197	30.457	38.365	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.239	34.407	5.03	27.239	22.197	30.457	38.365	0.017	0.0	-0.46	0.000	0.00	0.000	3.0
20	27.239	34.411	4.88	27.235	22.201	30.461	38.369	0.113	0.1	-1.09	0.067	9.38	1.119	20.0
30	27.243	34.411	4.88	27.236	22.200	30.460	38.369	0.169	0.3	-0.12	-0.029	0.43	0.240	30.0
40	27.219	34.411	4.89	27.210	22.209	30.470	38.379	0.225	0.5	-7.13	0.430	61.37	2.862	40.0
50	27.169	34.424	4.97	27.158	22.236	30.498	38.407	0.281	0.7	-4.45	1.579	61.49	2.864	50.0
100	21.906	34.996	4.63	21.886	24.248	32.642	40.676	0.528	2.6	-147.54	0.274	982.10	11.447	100.0
125	18.488	34.854	4.32	18.466	25.046	33.546	41.679	0.611	3.5	-124.52	-4.589	687.94	9.581	124.9
150	14.948	34.570	3.25	14.926	25.657	34.281	42.531	0.678	4.4	-145.86	-11.070	566.84	8.697	149.8
200	11.356	34.577	0.94	11.331	26.386	35.148	43.526	0.777	6.2	-24.40	5.432	207.76	5.265	199.6
250	10.704	34.688	0.55	10.673	26.591	35.378	43.780	0.856	8.0	-13.58	0.416	65.85	2.964	249.3
300	10.054	34.688	0.63	10.019	26.706	35.520	43.947	0.928	10.0	-9.74	-0.200	37.00	2.222	299.0
350	9.629	34.677	0.65	9.589	26.769	35.602	44.047	0.996	12.3	-7.58	-0.269	26.05	1.864	348.7
400	9.200	34.659	0.44	9.156	26.826	35.678	44.141	1.062	14.8	-9.92	-0.461	31.25	2.042	398.4
450	8.767	34.637	0.39	8.719	26.878	35.750	44.230	1.126	17.6	-8.28	-0.415	24.85	1.821	448.1
500	8.263	34.601	0.69	8.210	26.929	35.823	44.326	1.188	20.6	-12.49	-1.066	28.13	1.937	497.8
600	7.284	34.563	0.64	7.225	27.043	35.983	44.528	1.304	27.1	-10.50	-0.286	32.92	2.096	597.1
700	6.373	34.540	0.87	6.309	27.150	36.133	44.719	1.410	34.1	-7.54	-0.050	25.06	1.829	696.3
800	5.684	34.544	0.90	5.614	27.240	36.257	44.875	1.507	41.5	-5.16	0.032	17.85	1.543	795.5
900	5.229	34.547	1.22	5.153	27.298	36.338	44.976	1.597	49.3	-4.15	0.038	14.29	1.381	894.6
1000	4.809	34.551	1.21	4.727	27.351	36.411	45.070	1.683	57.6	-4.97	0.041	16.84	1.499	993.7
1200	3.996	34.569	1.57	3.903	27.454	36.556	45.254	1.839	75.1	-3.79	0.081	13.34	1.334	1191.7
1400	3.309	34.585	1.84	3.206	27.535	36.674	45.405	1.977	93.4	-3.18	0.094	11.51	1.239	1389.5
1600	2.805	34.604	2.05	2.691	27.597	36.763	45.520	2.101	112.4	-2.53	0.102	9.59	1.131	1587.0
1800	2.382	34.625	2.24	2.257	27.650	36.839	45.618	2.213	131.8	-1.67	0.086	6.70	0.945	1784.4
2000	2.137	34.640	2.41	1.998	27.683	36.887	45.678	2.317	151.9	-1.01	0.060	4.27	0.755	1981.6
2200	1.982	34.649	2.54	1.829	27.704	36.916	45.717	2.416	173.1	-0.72	0.042	3.06	0.639	2178.6
2400	1.879	34.658	2.63	1.710	27.720	36.939	45.745	2.512	195.7	-0.54	0.032	2.38	0.563	2375.5
2600	1.790	34.663	2.72	1.605	27.732	36.957	45.768	2.607	219.7	-0.61	0.034	2.67	0.597	2572.1
2800	1.699	34.669	2.85	1.497	27.745	36.975	45.793	2.699	245.1	-0.45	0.024	2.03	0.520	2768.6
3000	1.625	34.673	2.99	1.405	27.755	36.990	45.813	2.790	272.0	-0.58	0.028	2.60	0.589	2964.8
3200	1.544	34.678	3.18	1.307	27.766	37.007	45.834	2.879	300.1	-0.47	0.023	2.14	0.534	3161.0
3400	1.479	34.683	3.34	1.223	27.775	37.021	45.852	2.966	329.6	-0.41	0.021	1.92	0.506	3356.9
3600	1.429	34.686	3.52	1.154	27.783	37.032	45.867	3.053	360.4	-0.36	0.022	1.78	0.487	3552.6
3800	1.387	34.690	3.69	1.093	27.790	37.043	45.881	3.138	392.6	-0.32	0.017	1.55	0.455	3748.2
4000	1.341	34.694	3.87	1.026	27.797	37.054	45.896	3.223	426.3	-0.31	0.016	1.54	0.453	3943.6
4200	1.304	34.697	4.03	0.969	27.804	37.063	45.908	3.306	461.3	-0.24	0.013	1.25	0.408	4138.8
4400	1.288	34.699	4.15	0.930	27.808	37.070	45.917	3.390	497.9	-0.19	0.010	0.99	0.363	4333.9
4600	1.279	34.701	4.25	0.899	27.812	37.075	45.924	3.473	536.2	-0.11	0.007	0.62	0.288	4528.8
4800	1.288	34.702	4.30	0.885	27.813	37.078	45.927	3.558	576.6	-0.09	0.006	0.51	0.261	4723.5
5000	1.296	34.703	4.36	0.868	27.815	37.081	45.931	3.643	619.2	-0.07	0.005	0.40	0.232	4918.1
5200	1.307	34.704	4.41	0.855	27.817	37.083	45.934	3.729	664.1	-0.07	0.005	0.42	0.238	5112.4
5400	1.321	34.705	4.45	0.843	27.818	37.085	45.937	3.816	711.3	-0.04	0.004	0.24	0.179	5306.7
5600	1.344	34.705	4.48	0.841	27.819	37.086	45.938	3.905	761.2	-0.01	0.003	0.11	0.119	5500.7
5800	1.370	34.706	4.50	0.839	27.819	37.086	45.938	3.996	813.8	0.00	0.002	0.07	0.095	5694.6
6000	1.396	34.706	4.52	0.838	27.820	37.087	45.939	4.088	869.3	-0.01	0.002	0.07	0.095	5888.4
6151	1.416	34.707	4.52	0.837	27.820	37.088	45.939	4.159	913.2	-1.57	0.024	0.07	0.000	6034.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	22.0	27.243	27.237	22.195	30.455	38.363	34.404	34.403	4.92	1.51	0.15	0.00	0.00			21	222222255
23	46.7	27.086	27.075	22.244	30.508	38.419	34.399	34.397	4.97	1.51	0.15	0.00	0.00			46	222222255
22	72.6	26.787	26.770	22.451	30.721	38.639	34.547	34.583	4.86	1.81	0.21	0.00	0.00			72	222222255
21	96.3	23.643	23.623	23.779	32.125	40.113	35.033	35.024	4.65	1.91	0.20	0.00	0.00			95	222222255
20	120.8	19.850	19.827	24.709	33.166	41.259	34.870	34.896	3.94	3.83	0.48	4.15	0.15			120	222222255
19	146.9	16.631	16.607	25.399	33.962	42.155	34.729	34.686	3.37	9.26	0.96	11.49	0.01			146	222222255
18	172.2	12.066	12.043	26.137	34.872	43.225	34.428	34.423	2.76	21.95	1.74	22.79	0.01			171	222222255
17	196.4	11.127	11.103	26.440	35.210	43.597	34.592	34.602	0.76	31.21	2.40	32.25	0.05			195	222222255
16	247.3	10.378	10.349	26.650	35.451	43.865	34.690	34.687	0.54	33.83	2.52	35.20	0.00			245	222222255
15	297.6	9.873	9.839	26.734	35.556	43.991	34.686	34.682	0.61	35.64	2.55	36.10	0.00			295	222222255
14	396.3	9.028	8.985	26.844	35.704	44.174	34.647	34.650	0.50	40.88	2.70	37.60	0.00			393	222222255
13	496.0	7.987	7.937	26.955	35.862	44.377	34.582	34.582	0.76	49.64	2.79	38.10	0.00			492	222222255
12	617.6	6.900	6.842	27.087	36.045	44.607	34.551	34.548	0.69	61.62	2.96	40.70	0.00			613	222222255
11	747.9	5.910	5.843	27.208	36.214	44.821	34.539	34.536	0.81	74.11	3.05	42.50	0.00			742	222222255
10	872.1	5.272	5.198	27.296	36.333	44.969	34.550	34.547	1.10	82.47	3.05	42.90	0.00			865	222222255
9	997.4	4.818	4.736	27.348	36.408	45.066	34.549	34.550	1.07	91.83	3.10	43.20	0.00			989	222222255
8	1499.3	3.091	2.982	27.562	36.712	45.455	34.593	34.590	1.93	128.08	2.91	41.20	0.00			1485	222222255
7	1999.8	2.148	2.009	27.681	36.883	45.675	34.638	34.638	2.41	148.62	2.81	40.10	0.00			1979	222222255
6	2501.4	1.831	1.654	27.726	36.948	45.757	34.660	34.664	2.75	154.76	2.75	39.40	0.00			2472	222222255
5	3002.0	1.649	1.429	27.752	36.986	45.807	34.672	34.670	2.99	156.57	2.66	38.20	0.00			2963	222222255
4	3702.5	1.409	1.125	27.785	37.036	45.873	34.687	34.690	3.60	148.32	2.52	36.60	0.00			3649	222222255
3	4505.2	1.285	0.916	27.808	37.071	45.918	34.697	34.697	4.19	134.72	2.37	34.50	0.00			4432	222222255
2	5305.3	1.315	0.850	27.816	37.082	45.934	34.702		4.43	129.89	2.34	34.00	0.00			5210	252222255

CRUISE: MW 893 STA: 97 DATE (D/M/Y): 13- 3-89 TIME: 1945 LAT: 9 29.78 N LONG: 179 30.22 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24062E-04 1/S SOUND SPEED= 1514.0 M/S Depth= 6147 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.502	34.417	5.51	27.502	22.120	30.374	38.276	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.502	34.417	5.51	27.502	22.120	30.374	38.276	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.521	34.414	5.17	27.516	22.113	30.366	38.268	0.114	0.1	1.22	0.648	2.22	0.544	20.0
30	27.528	34.416	5.05	27.521	22.113	30.366	38.268	0.171	0.3	0.29	0.204	1.45	0.439	30.0
40	27.536	34.420	4.93	27.526	22.114	30.367	38.269	0.228	0.5	-0.57	-0.352	-1.87	-0.500	40.0
50	27.546	34.428	4.96	27.535	22.117	30.370	38.271	0.286	0.7	1.66	1.379	11.80	1.255	50.0
100	21.951	34.871	4.28	21.931	24.141	32.535	40.569	0.528	2.5	-137.40	-2.919	839.88	10.587	100.0
125	17.998	34.775	3.81	17.976	25.106	33.623	41.772	0.610	3.5	-158.19	-11.409	740.38	9.940	124.9
150	13.965	34.496	3.33	13.943	25.810	34.471	42.755	0.674	4.4	-96.47	-4.249	412.99	7.424	149.8
200	10.842	34.597	0.80	10.817	26.495	35.277	43.675	0.769	6.0	-25.51	4.773	199.06	5.154	199.6
250	10.346	34.687	0.49	10.316	26.653	35.455	43.871	0.843	7.7	-9.99	0.031	42.68	2.387	249.3
300	9.885	34.681	0.58	9.850	26.728	35.550	43.984	0.913	9.7	-8.33	-0.153	31.59	2.053	299.0
350	9.495	34.668	0.58	9.456	26.784	35.623	44.073	0.981	12.0	-8.09	-0.265	27.92	1.930	348.7
400	9.133	34.655	0.39	9.089	26.834	35.689	44.154	1.046	14.4	-8.41	-0.460	25.07	1.829	398.4
450	8.692	34.629	0.43	8.644	26.884	35.759	44.243	1.110	17.2	-11.37	-0.718	31.06	2.036	448.1
500	8.172	34.597	0.54	8.120	26.940	35.838	44.345	1.171	20.2	-8.85	-0.481	24.80	1.819	497.8
600	7.151	34.555	0.69	7.093	27.056	36.002	44.553	1.286	26.6	-9.48	-0.269	29.28	1.977	597.1
700	6.286	34.542	0.77	6.223	27.162	36.150	44.739	1.390	33.5	-7.93	-0.035	26.74	1.889	696.3
800	5.655	34.542	0.88	5.585	27.242	36.261	44.879	1.486	40.9	-5.94	0.033	20.45	1.652	795.5
900	5.162	34.548	0.97	5.086	27.307	36.350	44.991	1.576	48.6	-5.39	0.069	18.72	1.580	894.6
1000	4.620	34.557	1.18	4.539	27.376	36.446	45.114	1.659	56.7	-4.43	0.071	15.55	1.441	993.7
1200	3.985	34.571	1.42	3.893	27.456	36.559	45.257	1.813	73.9	-3.28	0.087	11.81	1.255	1191.7
1400	3.366	34.590	1.70	3.262	27.533	36.669	45.398	1.952	92.3	-2.81	0.082	10.20	1.167	1389.4
1600	2.933	34.605	1.99	2.817	27.586	36.746	45.496	2.078	111.6	-2.31	0.082	8.62	1.072	1587.0
1800	2.517	34.621	2.20	2.390	27.636	36.818	45.590	2.194	131.6	-1.69	0.076	6.64	0.941	1784.4
2000	2.225	34.637	2.37	2.085	27.674	36.873	45.660	2.301	152.4	-1.36	0.068	5.54	0.860	1981.6
2200	2.037	34.649	2.52	1.883	27.700	36.909	45.707	2.402	174.0	-0.90	0.046	3.74	0.706	2178.6
2400	1.917	34.657	2.61	1.747	27.717	36.933	45.738	2.499	196.8	-0.65	0.033	2.75	0.606	2375.4
2600	1.812	34.662	2.76	1.626	27.730	36.953	45.764	2.594	221.0	-0.45	0.021	1.91	0.505	2572.1
2800	1.739	34.667	2.85	1.536	27.741	36.969	45.784	2.687	246.8	-0.55	0.027	2.42	0.568	2768.6
3000	1.653	34.672	2.99	1.433	27.752	36.986	45.807	2.779	273.9	-0.41	0.023	1.90	0.503	2964.8
3200	1.591	34.676	3.11	1.353	27.761	36.999	45.824	2.870	302.5	-0.49	0.024	2.23	0.546	3160.9
3400	1.527	34.680	3.26	1.270	27.770	37.013	45.842	2.959	332.4	-0.36	0.016	1.64	0.468	3356.9
3600	1.463	34.684	3.43	1.187	27.779	37.027	45.860	3.047	363.8	-0.45	0.019	2.10	0.529	3552.6
3800	1.402	34.688	3.62	1.107	27.788	37.040	45.877	3.133	396.5	-0.35	0.021	1.77	0.486	3748.2
4000	1.353	34.692	3.82	1.038	27.796	37.051	45.893	3.218	430.3	-0.34	0.019	1.72	0.479	3943.6
4200	1.316	34.696	3.98	0.981	27.802	37.061	45.906	3.302	465.6	-0.30	0.016	1.55	0.455	4138.8
4400	1.287	34.699	4.13	0.930	27.808	37.070	45.917	3.386	502.2	-0.17	0.009	0.91	0.348	4333.9
4600	1.285	34.700	4.19	0.905	27.811	37.074	45.923	3.470	540.6	-0.11	0.006	0.56	0.274	4528.8
4800	1.287	34.702	4.25	0.884	27.813	37.078	45.927	3.554	581.0	-0.08	0.006	0.47	0.250	4723.5
5000	1.298	34.703	4.29	0.870	27.815	37.080	45.930	3.639	623.7	-0.08	0.005	0.44	0.242	4918.0
5200	1.309	34.704	4.33	0.857	27.817	37.083	45.933	3.726	668.6	-0.05	0.005	0.36	0.218	5112.4
5400	1.324	34.705	4.36	0.846	27.818	37.085	45.936	3.813	715.9	-0.04	0.003	0.26	0.188	5306.7
5600	1.345	34.705	4.39	0.841	27.819	37.086	45.938	3.902	765.8	-0.03	0.004	0.19	0.161	5500.7
5800	1.368	34.706	4.39	0.838	27.820	37.087	45.939	3.992	818.3	-0.01	0.003	0.10	0.114	5694.6
6000	1.394	34.706	4.39	0.836	27.820	37.087	45.939	4.085	873.8	-0.01	0.002	0.10	0.114	5888.3
6271	1.430	34.707	4.39	0.834	27.821	37.088	45.940	4.212	953.7	-1.51	0.024	0.10	0.000	6150.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	27.559	27.557	22.091	30.344	38.245	34.403	34.402	5.20	1.51	0.19	0.00	0.00	1.668	0.873	6	222222222
23	46.3	27.538	27.528	22.111	30.364	38.265	34.416	34.416	4.82	1.51	0.22	0.00	0.00	1.651	0.893	46	222222222
22	97.0	23.343	23.323	23.833	32.187	40.184	34.989	34.991	4.80	1.81	0.27	0.30	0.00	1.859	0.965	96	222222222
21	149.2	15.997	15.973	25.496	34.082	42.295	34.664	34.626	3.13	10.47	1.10	13.16	0.04	1.539	0.773	148	222222222
20	198.4	10.991	10.967	26.434	35.210	43.603	34.553	34.531	1.15	29.20	2.28	30.00	0.00	0.423	0.230	197	222222222
19	248.2	10.404	10.375	26.643	35.442	43.855	34.686	34.686	0.47	33.73	2.55	35.10	0.00	0.086	0.050	246	222222222
18	296.7	9.975	9.941	26.718	35.535	43.966	34.686	34.680	0.52	34.94	2.55	35.70	0.00	0.050	0.034	294	222222222
17	396.9	9.135	9.091	26.834	35.689	44.154	34.655	34.654	0.38	39.77	2.73	37.50	0.00	0.024		394	222222225
16	494.6	8.034	7.983	26.965	35.870	44.382	34.604	34.590	0.56	49.34	2.86	38.20	0.00	0.016		491	222222225
15	597.6	7.109	7.052	27.060	36.009	44.561	34.554	34.552	0.69	58.80	2.97	40.10	0.00	0.008	0.007	593	222222222
14	705.1	6.110	6.047	27.184	36.180	44.778	34.541	34.552	0.71	71.10	3.08	51.20		0.003	0.008	699	222222522
13	995.9	4.548	4.468	27.384	36.457	45.128	34.556	34.555	1.20	96.26	3.09	42.80	0.00	0.001		987	222222225
12	1497.2	3.043	2.935	27.573	36.726	45.471	34.601	34.600	1.89	127.27	2.97	41.30	0.00	-0.009	0.001	1483	222222222
11	1998.0	2.221	2.082	27.674	36.873	45.660	34.637	34.637	2.35	146.60	2.84	40.20	0.00		-0.005	1977	222222252
10	2501.2	1.866	1.688	27.722	36.942	45.750	34.658	34.661	2.67	153.75	2.77	39.30	0.00	-0.003	-0.004	2472	222222222
9	2995.2	1.670	1.450	27.750	36.983	45.803	34.671	34.673	3.00	155.06	2.67	38.30	0.00		-0.005	2957	222222252
8	3502.3	1.519	1.252	27.772	37.016	45.846	34.681	34.686	3.32	153.45	2.60	37.40	0.00	-0.003	-0.005	3453	222222222
7	4005.2	1.374	1.058	27.792	37.047	45.887	34.690	34.691	3.77	144.59	2.49	36.00	0.00	-0.006	0.007	3945	222222222
6	4499.7	1.291	0.923	27.807	37.069	45.917	34.697	34.699	4.14	134.72	2.40	34.90	0.00	-0.004	-0.004	4427	222222222
5	5003.5	1.300	0.872	27.813	37.079	45.929	34.701	34.704	4.32	130.80	2.35	34.30	0.00	0.001	0.001	4917	222222222
4	5500.8	1.335	0.844	27.817	37.083	45.935	34.703	34.705	4.39	129.08	2.33	34.00	0.00	0.004	-0.005	5400	222222222
3	5749.2	1.362	0.839	27.819	37.086	45.938	34.705	34.705	4.39	128.68	2.31	34.00	0.00	0.014		5641	222222225
2	6000.8	1.394	0.836	27.819	37.086	45.938	34.704	34.705	4.39	128.68	2.31	34.10	0.00	0.015	0.017	5884	222222222
1	6275.0	1.430	0.834	27.820	37.088	45.940	34.706	34.705	4.39	128.18	2.30	34.00	0.00	-0.001	-0.005	6150	222222222

CRUISE: MW 893 STA: 98 DATE (D/M/Y): 14- 3-89 TIME: 0524 LAT: 9 29.65 N LONG: 178 40.21 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24056E-04 1/S SOUND SPEED= 1512.2 M/S Depth= 6048 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.611	34.337	5.60	27.611	22.025	30.276	38.177	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.611	34.337	5.60	27.611	22.025	30.277	38.177	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.626	34.345	5.29	27.622	22.027	30.278	38.178	0.116	0.1	-0.23	-0.038	1.06	0.376	20.0
30	27.611	34.344	5.14	27.604	22.032	30.284	38.184	0.174	0.3	-4.26	-0.111	30.42	2.015	30.0
40	27.555	34.346	5.13	27.545	22.052	30.306	38.208	0.232	0.5	-5.89	5.291	138.40	4.298	40.0
50	27.413	34.439	5.16	27.402	22.169	30.425	38.329	0.289	0.7	-10.81	5.592	180.93	4.914	50.0
100	21.907	34.804	3.98	21.887	24.101	32.498	40.534	0.531	2.5	-138.96	-2.026	867.51	10.761	100.0
125	17.592	34.714	3.55	17.571	25.159	33.690	41.852	0.616	3.5	-173.43	-6.691	960.35	11.322	124.9
150	14.436	34.544	3.80	14.414	25.748	34.391	42.658	0.680	4.4	-135.80	-8.617	541.84	8.505	149.8
200	10.755	34.542	1.12	10.731	26.467	35.254	43.656	0.775	6.1	-23.79	4.117	178.80	4.885	199.6
250	10.184	34.658	0.60	10.155	26.658	35.467	43.890	0.849	7.8	-13.44	0.136	58.42	2.793	249.3
300	9.617	34.649	0.58	9.583	26.748	35.582	44.027	0.918	9.7	-8.44	-0.360	27.62	1.920	299.0
350	9.372	34.665	0.50	9.333	26.802	35.646	44.102	0.985	11.9	-3.19	0.466	21.37	1.689	348.7
400	8.967	34.638	0.59	8.923	26.847	35.710	44.182	1.050	14.4	-10.00	-0.480	30.56	2.020	398.4
450	8.444	34.613	0.59	8.397	26.910	35.796	44.290	1.112	17.1	-8.65	-0.399	25.91	1.860	448.1
500	7.906	34.584	0.66	7.855	26.969	35.880	44.397	1.172	20.0	-12.49	-0.617	35.50	2.177	497.8
600	6.921	34.552	0.80	6.864	27.084	36.041	44.602	1.284	26.3	-8.86	-0.162	28.69	1.957	597.1
700	6.152	34.540	0.92	6.089	27.178	36.172	44.767	1.386	33.1	-6.91	-0.037	22.98	1.752	696.3
800	5.575	34.544	0.94	5.506	27.254	36.276	44.898	1.481	40.3	-5.70	0.053	19.90	1.630	795.5
900	5.041	34.548	1.11	4.966	27.321	36.370	45.017	1.569	48.0	-4.50	0.065	15.77	1.451	894.6
1000	4.675	34.555	1.17	4.594	27.368	36.436	45.100	1.653	56.0	-3.62	0.058	12.62	1.298	993.7
1200	3.971	34.571	1.54	3.879	27.458	36.562	45.260	1.807	73.3	-3.22	0.089	11.71	1.250	1191.6
1400	3.416	34.587	1.81	3.312	27.527	36.660	45.386	1.946	91.7	-2.48	0.073	9.02	1.098	1389.4
1600	2.940	34.604	2.05	2.824	27.585	36.744	45.494	2.073	111.2	-2.32	0.085	8.73	1.080	1587.0
1800	2.538	34.620	2.27	2.411	27.634	36.815	45.585	2.190	131.4	-1.76	0.072	6.78	0.951	1784.4
2000	2.265	34.633	2.45	2.124	27.667	36.864	45.649	2.298	152.3	-1.19	0.057	4.80	0.801	1981.6
2200	2.087	34.645	2.59	1.931	27.693	36.900	45.695	2.401	174.3	-0.86	0.050	3.70	0.703	2178.6
2400	1.949	34.654	2.73	1.779	27.712	36.927	45.730	2.500	197.5	-0.64	0.036	2.76	0.607	2375.4
2600	1.852	34.661	2.81	1.665	27.726	36.947	45.756	2.596	222.1	-0.53	0.034	2.41	0.567	2572.1
2800	1.769	34.666	2.90	1.565	27.738	36.964	45.778	2.690	248.1	-0.47	0.023	2.04	0.522	2768.6
3000	1.699	34.671	2.99	1.478	27.748	36.979	45.798	2.783	275.6	-0.48	0.023	2.15	0.535	2964.8
3200	1.629	34.675	3.14	1.390	27.758	36.994	45.817	2.875	304.5	-0.40	0.016	1.74	0.482	3160.9
3400	1.572	34.679	3.26	1.314	27.766	37.007	45.834	2.966	335.0	-0.39	0.019	1.83	0.494	3356.9
3600	1.514	34.683	3.41	1.237	27.774	37.019	45.850	3.055	367.0	-0.41	0.018	1.91	0.505	3552.6
3800	1.453	34.687	3.59	1.157	27.783	37.032	45.868	3.143	400.3	-0.42	0.022	2.07	0.526	3748.2
4000	1.386	34.691	3.81	1.070	27.793	37.047	45.886	3.230	434.8	-0.46	0.024	2.31	0.555	3943.6
4200	1.340	34.695	3.99	1.004	27.800	37.058	45.901	3.315	470.4	-0.27	0.014	1.36	0.426	4138.8
4400	1.308	34.698	4.15	0.950	27.806	37.067	45.913	3.400	507.5	-0.26	0.014	1.36	0.425	4333.9
4600	1.287	34.701	4.26	0.907	27.811	37.074	45 922	3.484	546.0	-0.16	0.009	0.86	0.338	4528.8
4800	1.280	34.703	4.35	0.877	27.815	37.079	45.929	3.568	586.5	-0.15	0.009	0.86	0.339	4723.5
5000	1.289	34.704	4.41	0.862	27.816	37.082	45.933	3.653	628.9	-0.09	0.007	0.54	0.269	4918.1
5200	1.300	34.705	4.45	0.848	27.818	37.084	45.936	3.739	673.5	-0.03	0.003	0.18	0.157	5112.5
5400	1.320	34.705	4.47	0.842	27.819	37.086	45.937	3.826	720.6	-0.01	0.002	0.10	0.115	5306.7
5600	1.344	34.706	4.49	0.840	27.820	37.086	45.938	3.915	770.4	-0.01	0.003	0.12	0.126	5500.7
5800	1.369	34.706	4.50	0.838	27.820	37.087	45.939	4.005	823.0	-0.01	0.002	0.07	0.096	5694.6
6000	1.396	34.706	4.47	0.838	27.820	37.087	45.939	4.097	878.4	0.00	0.000	0.07	0.000	5888.4
6013	1.397	34.706	4.48	0.838	27.820	37.087	45.939	4.103	882.1	-1.60	0.027	0.07	0.000	5900.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.0	27.581	27.580	22.043	30.295	38.196	34.348	34.346	5.10	1.61	0.16	0.10	0.00			6	222222255
23	47.7	27.257	27.247	22.225	30.485	38.392	34.448	34.455	5.12	1.61	0.20	0.10	0.00			47	222222255
22	97.1	20.254	20.236	24.535	32.980	41.062	34.783	34.766	3.48	6.75	0.75	8.13	0.17			96	222222255
21	147.0	14.019	13.998	25.810	34.469	42.750	34.510	34.511	3.51	13.39	1.13	14.40	0.00			146	222222255
20	196.7	10.663	10.639	26.477	35.268	43.673	34.534	34.532	1.15	31.62	2.29	31.00	0.00			195	222222255
19	297.5	9.619	9.585	26.767	35.600	44.045	34.674	34.658	0.66	37.05	2.61	36.30	0.00			295	222222255
18	398.0	8.884	8.841	26.858	35.724	44.199	34.635	34.628	0.59	42.19	2.73	37.50	0.00			395	222222255
17	497.2	7.957	7.906	26.962	35.871	44.386	34.585	34.582	0.68	50.55	2.84	38.50	0.00			493	222222255
16	598.6	6.991	6.934	27.076	36.030	44.588	34.553	34.552	0.78	60.62	2.96	40.10	0.00			594	222222255
15	798.3	5.666	5.596	27.240	36.258	44.876	34.540	34.538	1.05	76.93	3.06	42.70	0.00			792	222222255
13	1249.4	3.776	3.681	27.485	36.599	45.307	34.580	34.577	1.54	112.57	3.06	42.60	0.00			1238	222222255
12	1497.6	3.069	2.961	27.568	36.719	45.463	34.598	34.597	1.95	128.08	2.96	41.40	0.00			1483	222222255
11	1999.1	2.243	2.103	27.671	36.868	45.655	34.635	34.632	2.40	145.70	2.85	40.10	0.00			1978	222222255
9	3000.7	1.682	1.461	27.748	36.981	45.800	34.670	34.672	3.00	156.17	2.69	38.20	0.00			2962	222222255
8	3504.1	1.520	1.253	27.771	37.015	45.845	34.680	34.680	3.43	153.96	2.59	37.40	0.00			3455	222222255
7	4004.1	1.368	1.053	27.794	37.049	45.890	34.692	34.692	3.87	144.09	2.48	36.00	0.00			3944	222222255
6	4504.3	1.291	0.922	27.809	37.071	45.918	34.699	34.699	4.24	135.43	2.42	34.90	0.00			4432	222222255
5	5003.9	1.289	0.862	27.815	37.080	45.931	34.701	34.702	4.37	131.60	2.39	34.30	0.00			4918	222222255
4	5253.0	1.305	0.846	27.817	37.084	45.935	34.703	34.702	4.43	129.89	2.35	34.10	0.00			5160	222222255
3	5502.5	1.333	0.842	27.817	37.084	45.936	34.703	34.702	4.44	129.79	2.34	33.90	0.00			5402	222222255
2	5802.6	1.369	0.838	27.820	37.087	45.939	34.706	34.703	4.42	129.79	2.35	33.90	0.00			5693	222222255
1	6016.4	1.398	0.838	27.819	37.086	45.938	34.704		4.46	129.39	2.35	33.80	0.00			5900	252222255

CRUISE: MW 893 STA: 99 DATE (D/M/Y): 14- 3-89 TIME: 1522 LAT: 9 29.40 N LONG: 177 50.16 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24046E-04 1/S SOUND SPEED= 1511.8 M/S Depth= 5906 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.460	34.443	5.32	27.460	22.153	30.407	38.310	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.460	34.443	5.32	27.460	22.153	30.407	38.310	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.483	34.432	5.25	27.478	22.139	30.393	38.295	0.114	0.1	0.59	0.067	-3.31	-0.665	20.0
30	27.486	34.432	5.08	27.479	22.138	30.392	38.295	0.170	0.3	0.05	0.052	0.54	0.269	30.0
40	27.489	34.432	5.01	27.480	22.138	30.392	38.295	0.227	0.5	-0.02	0.029	0.66	0.296	40.0
50	27.491	34.433	5.00	27.479	22.139	30.393	38.295	0.284	0.7	-0.03	-0.031	-0.31	-0.202	50.0
100	23.142	34.972	4.91	23.122	23.879	32.239	40.241	0.547	2.7	-179.66	1.886	1251.17	12.926	100.0
125	18.482	34.733	3.50	18.460	24.955	33.456	41.591	0.636	3.7	-171.53	-11.241	828.19	10.517	124.9
150	14.725	34.552	2.43	14.703	25.692	34.324	42.581	0.703	4.7	-144.14	-5.405	655.21	9.354	149.8
200	11.349	34.622	0.98	11.324	26.423	35.184	43.562	0.800	6.4	-28.86	2.557	175.66	4.843	199.6
250	10.412	34.672	0.82	10.383	26.630	35.429	43.843	0.877	8.1	-15.16	0.146	67.04	2.992	249.3
300	9.959	34.680	0.62	9.924	26.716	35.534	43.965	0.948	10.1	-8.33	-0.089	32.83	2.094	299.1
350	9.567	34.672	0.58	9.527	26.776	35.611	44.058	1.016	12.4	-8.52	-0.267	29.69	1.991	348.8
400	9.099	34.651	0.59	9.055	26.836	35.692	44.159	1.081	14.9	-7.79	-0.348	24.65	1.814	398.5
450	8.677	34.631	0.62	8.629	26.888	35.764	44.248	1.145	17.6	-7.23	-0.352	21.77	1.705	448.1
500	8.318	34.613	0.61	8.266	26.930	35.822	44.322	1.206	20.6	-11.41	-0.733	30.17	2.007	497.8
600	7.268	34.565	0.58	7.209	27.047	35.988	44.534	1.322	27.1	-8.37	-0.244	25.86	1.858	597.1
700	6.377	34.542	0.80	6.313	27.151	36.134	44.719	1.428	34.1	-8.79	-0.142	28.06	1.936	696.3
800	5.689	34.541	0.97	5.620	27.238	36.255	44.872	1.525	41.5	-6.49	0.013	21.96	1.712	795.5
900	5.132	34.548	1.04	5.056	27.310	36.355	44.998	1.615	49.3	-4.71	0.090	16.93	1.503	894.6
1000	4.640	34.556	1.21	4.559	27.373	36.442	45.108	1.698	57.4	-4.09	0.080	14.56	1.394	993.7
1200	3.905	34.574	1.48	3.813	27.467	36.574	45.276	1.851	74.5	-3.75	0.093	13.35	1.335	1191.7
1400	3.301	34.590	1.88	3.198	27.540	36.679	45.411	1.987	92.5	-2.48	0.071	8.88	1.089	1389.5
1600	2.844	34.607	2.12	2.730	27.596	36.760	45.515	2.111	111.5	-2.10	0.079	7.87	1.025	1587.1
1800	2.479	34.621	2.33	2.353	27.639	36.823	45.597	2.225	131.3	-1.59	0.074	6.28	0.915	1784.4
2000	2.186	34.638	2.50	2.047	27.678	36.878	45.667	2.332	151.9	-1.29	0.085	5.61	0.865	1981.6
2200	2.011	34.650	2.62	1.857	27.702	36.913	45.712	2.432	173.3	-0.79	0.044	3.33	0.667	2178.7
2400	1.885	34.657	2.74	1.715	27.719	36.937	45.743	2.528	195.9	-0.62	0.030	2.59	0.588	2375.5
2600	1.795	34.663	2.84	1.609	27.732	36.956	45.768	2.623	219.9	-0.54	0.033	2.43	0.570	2572.1
2800	1.706	34.670	2.96	1.504	27.745	36.975	45.792	2.715	245.4	-0.48	0.024	2.10	0.529	2768.6
3000	1.633	34.674	3.09	1.414	27.755	36.990	45.812	2.806	272.3	-0.43	0.021	1.91	0.505	2964.9
3200	1.581	34.678	3.22	1.343	27.763	37.002	45.827	2.896	300.7	-0.35	0.017	1.59	0.460	3161.0
3400	1.518	34.681	3.33	1.262	27.771	37.015	45.844	2.985	330.6	-0.52	0.024	2.41	0.568	3356.9
3600	1.462	34.685	3.52	1.187	27.780	37.027	45.861	3.072	361.8	-0.35	0.019	1.69	0.475	3552.6
3800	1.410	34.689	3.69	1.115	27.788	37.039	45.877	3.159	394.5	-0.32	0.014	1.52	0.451	3748.2
4000	1.373	34.692	3.85	1.058	27.794	37.049	45.889	3.244	428.5	-0.25	0.015	1.29	0.415	3943.6
4200	1.328	34.696	4.01	0.992	27.801	37.060	45.904	3.329	464.0	-0.29	0.015	1.46	0.441	4138.9
4400	1.301	34.698	4.15	0.943	27.807	37.068	45.914	3.413	500.9	-0.26	0.015	1.40	0.433	4333.9
4600	1.288	34.700	4.25	0.908	27.811	37.074	45.922	3.497	539.5	-0.14	0.008	0.76	0.318	4528.8
4800	1.285	34.702	4.33	0.882	27.814	37.078	45.928	3.582	579.9	-0.12	0.008	0.71	0.307	4723.5
5000	1.288	34.703	4.38	0.861	27.816	37.082	45.933	3.667	622.4	-0.08	0.006	0.49	0.255	4918.1
5200	1.301	34.704	4.43	0.849	27.818	37.084	45.936	3.752	667.1	-0.05	0.004	0.30	0.199	5112.5
5400	1.321	34.705	4.46	0.843	27.819	37.085	45.937	3.840	714.2	-0.02	0.003	0.15	0.141	5306.7
5600	1.344	34.706	4.47	0.840	27.819	37.086	45.938	3.928	764.0	-0.01	0.003	0.13	0.130	5500.7
5800	1.368	34.706	4.48	0.837	27.820	37.087	45.939	4.019	816.6	-0.01	0.003	0.11	0.119	5694.6
5963	1.389	34.707	4.46	0.836	27.820	37.087	45.940	4.094	861.5	-0.01	0.001	0.11	0.000	5852.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.8	27.476	27.475	22.145	30.399	38.301	34.438	34.438	5.02	1.21	0.17	0.00	0.00	1.650	0.864	7	222222222
23	47.5	27.482	27.471	22.148	30.402	38.304	34.440	34.437	5.08	1.41	0.17	0.10	0.00	1.645	0.867	47	222222222
22	96.4	21.731	21.712	24.292	32.692	40.731	34.991	34.944	4.46	1.91	0.29	0.58	0.02	1.878	0.959	95	222222222
21	146.7	12.892	12.872	26.048	34.750	43.071	34.521	34.520	1.54	22.05	1.94	25.59	0.01	0.766	0.378	145	222222222
20	196.0	11.047	11.023	26.510	35.283	43.672	34.664	34.656	0.50	31.31	2.46	33.30	0.00	0.169		194	222222225
19	245.9	10.212	10.183	26.665	35.472	43.893	34.672	34.680	0.50	33.93	2.51	34.90	0.00	0.080	0.036	244	222222222
18	296.0	9.809	9.775	26.737	35.562	43.999	34.675	34.674	0.55	35.74	2.54	35.70	0.00	0.043		294	222222225
17	395.8	9.024	8.981	26.844	35.704	44.174	34.646	34.644		39.47	2.64	36.50	0.00	0.029		393	225222225
16	495.7	8.273	8.221	26.944	35.837	44.339	34.621	34.610	0.58	46.52	2.81	38.00	0.00	0.007		492	222222225
15	748.2	6.012	5.945	27.198	36.199	44.801	34.542	34.540	0.82	71.79	3.06	41.90	0.00	-0.001	0.013	742	222222222
13	1497.2	3.075	2.967	27.565	36.716	45.460	34.595	34.597	1.98	127.47	2.93	40.80	0.00	-0.004	0.001	1483	222222222
12	1998.3	2.203	2.064	27.676	36.876	45.664	34.638	34.636	2.48	146.10	2.81	39.60	0.00	-0.007	-0.005	1977	222222222
11	2749.9	1.731	1.533	27.740	36.969	45.784	34.667	34.664	2.92	155.67	2.70	38.50	0.00			2716	222222255
9	4253.5	1.326	0.984	27.801	37.060	45.905	34.695	34.695	4.05	138.75	2.44	35.10	0.00			4187	222222255
8	5002.6	1.291	0.864	27.815	37.081	45.931	34.702	34.703	4.38	131.30	2.34	34.10	0.00			4916	222222255
7	5202.5	1.302	0.850	27.816	37.083	45.934	34.703	34.702	4.48	129.89	2.34	33.90	0.00			5111	222222255
6	5301.9	1.311	0.846	27.817	37.083	45.935	34.703	34.704	4.44	129.69	2.34	33.90	0.00			5207	222222255
5	5403.0	1.321	0.843	27.818	37.085	45.936	34.704	34.704	4.46	129.49	2.33	33.80	0.00			5305	222222255
4	5502.4	1.332	0.841	27.818	37.085	45.937	34.704	34.708	4.48	128.58	2.32	33.70	0.00			5402	222222255
3	5604.0	1.344	0.840	27.819	37.086	45.938	34.705	34.703	4.49	128.78	2.32	33.80	0.00			5500	222222255
2	5702.9	1.355	0.838	27.820	37.087	45.939	34.706	34.702	4.50	129.08	2.32	33.90	0.00	0.020		5596	222222225
1	5911.5	1.382	0.836	27.819	37.086	45.938	34.705	34.700		128.38	2.32	33.80	0.00			5798	225222255

CRUISE: MW 893 STA: 100 DATE (D/M/Y): 15- 3-89 TIME: 0053 LAT: 9 29.63 N LONG: 177 0.13 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24055E-04 1/S SOUND SPEED= 1511.9 M/S Depth= 5755 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.544	34.473	4.97	27.544	22.148	30.400	38.300	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.544	34.473	4.97	27.544	22.148	30.400	38.301	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.487	34.460	4.91	27.483	22.158	30.412	38.314	0.113	0.1	-4.96	-0.156	34.82	2.156	20.0
30	27.455	34.459	4.85	27.448	22.169	30.423	38.326	0.170	0.3	-1.30	-0.029	9.34	1.117	30.0
40	27.449	34.459	4.82	27.440	22.171	30.426	38.329	0.227	0.5	-0.50	-0.023	3.42	0.676	40.0
50	27.447	34.459	4.89	27.435	22.173	30.428	38.331	0.283	0.7	-0.42	0.049	4.06	0.737	50.0
100	22.840	35.003	4.48	22.820	23.989	32.357	40.366	0.539	2.6	-170.24	0.546	1155.93	12.422	100.0
125	18.781	34.842	3.59	18.759	24.963	33.453	41.578	0.625	3.6	-135.12	-6.667	681.74	9.540	124.9
150	15.490	34.609	2.83	15.467	25.568	34.172	42.403	0.693	4.6	-130.27	-9.029	516.92	8.307	149.8
200	11.921	34.563	0.98	11.895	26.270	35.009	43.366	0.796	6.4	-38.59	3.256	234.95	5.600	199.6
250	10.772	34.680	0.48	10.742	26.574	35.358	43.757	0.876	8.2	-12.59	0.145	56.91	2.756	249.3
300	10.170	34.685	0.62	10.135	26.683	35.492	43.915	0.949	10.3	-11.72	-0.167	46.04	2.479	299.1
350	9.710	34.669	0.63	9.670	26.750	35.579	44.021	1.018	12.6	-6.92	-0.201	24.70	1.816	348.8
400	9.291	34.659	0.49	9.246	26.812	35.660	44.119	1.085	15.1	-9.16	-0.388	29.78	1.994	398.5
450	8.808	34.635	0.48	8.759	26.871	35.740	44.219	1.150	17.9	-9.10	-0.506	26.52	1.881	448.2
500	8.380	34.610	0.53	8.327	26.919	35.808	44.305	1.212	20.9	-9.06	-0.314	29.08	1.970	497.8
600	7.486	34.570	0.60	7.427	27.020	35.951	44.487	1.329	27.5	-8.42	-0.307	25.03	1.828	597.1
700	6.540	34.542	0.84	6.475	27.129	36.105	44.683	1.437	34.7	-8.81	-0.150	27.77	1.925	696.3
800	5.721	34.541	0.91	5.652	27.233	36.248	44.864	1.535	42.2	-5.98	0.035	20.73	1.664	795.5
900	5.162	34.547	1.00	5.086	27.306	36.349	44.991	1.626	50.0	-4.76	0.062	16.61	1.489	894.6
1000	4.744	34.554	1.09	4.662	27.360	36.424	45.086	1.710	58.2	-4.35	0.076	15.27	1.428	993.7
1200	3.932	34.573	1.46	3.840	27.463	36.569	45.269	1.864	75.4	-3.26	0.094	11.92	1.261	1191.7
1400	3.394	34.588	1.76	3.290	27.529	36.663	45.391	2.002	93.7	-2.80	0.077	10.06	1.159	1389.5
1600	2.887	34.605	2.04	2.772	27.590	36.752	45.505	2.128	113.0	-2.25	0.089	8.57	1.069	1587.1
1800	2.481	34.620	2.26	2.355	27.639	36.822	45.596	2.244	133.0	-1.89	0.081	7.35	0.990	1784.5
2000	2.220	34.635	2.40	2.080	27.673	36.872	45.659	2.350	153.6	-1.18	0.065	4.87	0.806	1981.7
2200	2.013	34.648	2.59	1.859	27.701	36.912	45.711	2.451	175.2	-0.95	0.062	4.18	0.747	2178.7
2400	1.876	34.658	2.70	1.707	27.720	36.939	45.746	2.547	197.8	-0.51	0.030	2.24	0.547	2375.5
2600	1.800	34.663	2.80	1.614	27.731	36.955	45.766	2.642	221.8	-0.47	0.026	2.08	0.527	2572.1
2800	1.738	34.668	2.88	1.535	27.741	36.969	45.785	2.735	247.4	-0.42	0.022	1.85	0.497	2768.6
3000	1.676	34.672	2.98	1.455	27.750	36.983	45.802	2.827	274.7	-0.44	0.023	1.98	0.514	2964.9
3200	1.607	34.676	3.12	1.368	27.760	36.997	45.822	2.918	303.5	-0.47	0.023	2.16	0.537	3161.0
3400	1.541	34.681	3.29	1.284	27.769	37.011	45.840	3.007	333.6	-0.36	0.017	1.65	0.469	3356.9
3600	1.480	34.685	3.46	1.204	27.778	37.025	45.857	3.096	365.2	-0.47	0.023	2.24	0.547	3552.7
3800	1.404	34.689	3.67	1.109	27.788	37.040	45.878	3.183	397.9	-0.40	0.019	1.94	0.510	3748.2
4000	1.360	34.693	3.84	1.045	27.795	37.051	45.892	3.268	431.9	-0.30	0.014	1.48	0.444	3943.7
4200	1.319	34.696	3.99	0.984	27.802	37.061	45.906	3.353	467.3	-0.34	0.019	1.74	0.482	4138.9
4400	1.289	34.699	4.13	0.932	27.808	37.070	45.917	3.436	504.0	-0.24	0.012	1.24	0.406	4333.9
4600	1.271	34.701	4.25	0.892	27.812	37.076	45.926	3.520	542.3	-0.15	0.008	0.81	0.329	4528.8
4800	1.272	34.703	4.32	0.870	27.815	37.080	45.930	3.604	582.5	-0.10	0.007	0.56	0.274	4723.5
5000	1.283	34.704	4.38	0.856	27.817	37.083	45.934	3.688	624.8	-0.04	0.003	0.25	0.184	4918.1
5200	1.300	34.704	4.41	0.848	27.818	37.084	45.936	3.774	669.4	-0.02	0.002	0.14	0.136	5112.5
5400	1.324	34.705	4.42	0.846	27.818	37.085	45.936	3.861	716.6	-0.02	0.003	0.14	0.137	5306.7
5600	1.346	34.705	4.43	0.842	27.819	37.086	45.937	3.950	766.5	-0.01	0.003	0.11	0.124	5500.8
5800	1.371	34.706	4.45	0.840	27.819	37.086	45.938	4.041	819.1	-0.02	0.003	0.12	0.128	5694.7
5953	1.389	34.706	4.44	0.838	27.820	37.087	45.939	4.111	861.3	-0.02	0.004	0.12	0.000	5842.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL PSS78	SALNTY PSS78	OXYGEN ML/L	SILCAT UMOL/L	PHSPHT UMOL/L	NITRAT UMOL/L	NITRIT UMOL/L	CFC-11 PM/KG	CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	27.500	27.498	22.155	30.409	38.310	34.462	34.463	4.65	1.31	0.14	0.00	0.00			6	222222255
23	44.5	27.434	27.423	22.192	30.446	38.350	34.479	34.472	5.08	1.51	0.16	0.10	0.00			44	222222255
22	98.0	22.400	22.381	24.109	32.489	40.510	34.996	35.008	4.58	1.81	0.25	0.18	0.02			97	222222255
21	146.3	14.966	14.944	25.664	34.287	42.536	34.584	34.569	2.83	12.89	1.27	16.37	0.03			145	222222255
20	196.6	11.165	11.141	26.484	35.252	43.636	34.657	34.657	0.57	31.31	2.45	33.70	0.00			195	222222255
19	246.4	10.317	10.288	26.654	35.457	43.874	34.682	34.681	0.68	33.73	2.47	35.10	0.00			244	222222255
18	296.5	9.864	9.830	26.729	35.552	43.987	34.677	34.674	0.61	35.74	2.53	36.10	0.00			294	222222255
17	413.5	8.947	8.902	26.853	35.716	44.189	34.640	34.637	0.53	42.09	2.73	37.90	0.00			410	222222255
16	494.7	8.172	8.121	26.944	35.842	44.348	34.602	34.608	0.58	48.63	2.84	38.80	0.00			491	222222255
15	746.6	6.046	5.979	27.195	36.195	44.795	34.544	34.539	0.80	72.09	3.04	42.70	0.00			741	222222255
14	993.6	4.773	4.692	27.355	36.418	45.078	34.552	34.551	1.09	92.13	3.10	43.60	0.00			985	222222255
13	1496.7	3.102	2.993	27.563	36.713	45.455	34.596	34.598	1.94	127.27	2.95	41.70	0.00			1482	222222255
12	1997.5	2.193	2.054	27.676	36.876	45.665	34.636	34.634	2.44	147.01	2.79	40.60	0.00			1976	222222255
11	2751.2	1.770	1.571	27.736	36.962	45.776	34.665	34.665	2.84	154.56	2.66	39.30	0.00			2717	222222255
10	3501.5	1.536	1.269	27.771	37.014	45.843	34.681	34.685	3.38	152.44	2.58	37.90	0.00			3453	222222255
9	4253.8	1.329	0.987	27.800	37.059	45.903	34.694		4.03	139.35	2.43	35.80	0.00			4187	252222255
8	5007.3	1.285	0.857	27.816	37.082	45.933	34.703		4.40	130.29	2.35	34.60	0.00			4921	252222255
7	5203.0	1.301	0.849	27.817	37.083	45.935	34.703	34.704	4.43	129.79	2.34	34.60	0.00			5111	222222255
6	5404.6	1.324	0.846	27.818	37.084	45.936	34.704	34.703	4.44	129.79	2.34	34.59	0.01			5307	222222255
5	5504.6	1.336	0.845	27.817	37.083	45.935	34.703	34.708	4.43	129.59	2.34	34.49	0.01			5404	222222255
4	5603.1	1.347	0.843	27.818	37.085	45.937	34.705	34.702	4.43	129.39	2.33	34.49	0.01			5499	222222255
3	5703.1	1.359	0.842	27.818	37.085	45.937	34.704	34.703	4.43	129.08	2.34	34.49	0.01			5596	222222255
2	5804.4	1.371	0.840	27.819	37.086	45.938	34.706	34.705	4.44	129.59	2.34	34.49	0.01			5694	222222255
1	5955.9	1.389	0.837	27.820	37.087	45.939	34.706		4.42	129.49	2.34	34.49	0.01			5841	252222255

CRUISE: MW 893 STA: 101 DATE (D/M/Y): 15- 3-89 TIME: 1013 LAT: 9 30.04 N LONG: 176 9.89 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24073E-04 1/S SOUND SPEED= 1512.5 M/S Depth= 6044 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.400	34.400	4.86	27.400	22.140	30.396	38.300	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.400	34.400	4.86	27.400	22.140	30.396	38.300	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.417	34.392	5.25	27.412	22.130	30.386	38.290	0.114	0.1	-0.01	0.082	1.50	0.447	20.0
30	27.420	34.392	4.99	27.413	22.130	30.386	38.290	0.171	0.3	0.00	-0.005	-0.10	-0.113	30.0
40	27.416	34.392	5.04	27.407	22.132	30.388	38.292	0.228	0.5	0.26	-0.040	-2.65	-0.595	40.0
50	27.416	34.392	5.04	27.405	22.132	30.388	38.293	0.285	0.7	-3.35	0.003	25.44	1.842	50.0
100	23.731	35.132	4.68	23.710	23.828	32.170	40.155	0.537	2.6	-154.85	-3.225	979.67	11.432	100.0
125	18.627	34.850	3.73	18.605	25.007	33.503	41.632	0.625	3.6	-172.50	-9.377	874.29	10.799	124.9
150	14.855	34.544	2.96	14.833	25.658	34.285	42.538	0.691	4.5	-132.39	-9.506	534.68	8.445	149.8
200	11.480	34.623	0.59	11.454	26.399	35.155	43.528	0.789	6.3	-29.60	2.254	173.94	4.817	199.6
250	10.595	34.679	0.54	10.565	26.604	35.395	43.801	0.867	8.1	-15.48	-0.069	64.58	2.935	249.3
300	9.927	34.675	0.59	9.892	26.717	35.537	43.969	0.939	10.1	-8.46	0.080	36.47	2.206	299.1
350	9.512	34.669	0.48	9.473	26.783	35.620	44.070	1.007	12.3	-10.66	-0.608	32.08	2.069	348.8
400	9.058	34.640	0.52	9.014	26.834	35.692	44.161	1.072	14.8	-6.92	-0.087	25.90	1.859	398.5
450	8.614	34.620	0.51	8.566	26.889	35.767	44.255	1.135	17.6	-10.78	-0.620	30.49	2.017	448.1
500	8.192	34.598	0.54	8.140	26.938	35.835	44.341	1.196	20.5	-7.67	-0.445	20.93	1.671	497.8
600	7.298	34.556	0.71	7.239	27.036	35.975	44.520	1.312	27.0	-7.02	0.038	26.09	1.866	597.1
700	6.438	34.537	0.97	6.373	27.139	36.119	44.702	1.419	34.1	-8.30	-0.098	27.15	1.903	696.3
800	5.706	34.541	0.89	5.636	27.236	36.252	44.868	1.517	41.5	-7.05	0.043	24.54	1.809	795.5
900	5.166	34.545	1.05	5.090	27.305	36.347	44.989	1.607	49.4	-5.67	0.052	19.36	1.607	894.6
1000	4.667	34.553	1.23	4.586	27.368	36.436	45.101	1.691	57.5	-4.22	0.095	15.15	1.421	993.7
1200	3.929	34.572	1.50	3.836	27.463	36.569	45.269	1.844	74.6	-3.29	0.089	11.93	1.261	1191.7
1400	3.349	34.588	1.81	3.246	27.534	36.670	45.400	1.982	92.9	-2.80	0.080	10.12	1.162	1389.5
1600	2.887	34.605	2.02	2.772	27.590	36.752	45.505	2.108	112.2	-2.41	0.088	9.05	1.099	1587.1
1800	2.479	34.620	2.21	2.352	27.639	36.823	45.597	2.223	132.1	-1.62	0.078	6.46	0.928	1784.4
2000	2.237	34.634	2.38	2.097	27.671	36.869	45.655	2.330	152.8	-1.06	0.059	4.40	0.766	1981.6
2200	2.030	34.647	2.55	1.876	27.699	36.909	45.707	2.431	174.6	-0.95	0.058	4.14	0.743	2178.7
2400	1.902	34.656	2.68	1.733	27.717	36.934	45.739	2.529	197.4	-0.58	0.035	2.54	0.582	2375.5
2600	1.799	34.663	2.78	1.613	27.732	36.956	45.767	2.624	221.6	-0.52	0.030	2.30	0.554	2572.1
2800	1.713	34.668	2.89	1.511	27.743	36.973	45.790	2.717	247.2	-0.57	0.028	2.52	0.580	2768.6
3000	1.651	34.673	3.01	1.431	27.753	36.987	45.807	2.808	274.2	-0.42	0.020	1.85	0.497	2964.9
3200	1.586	34.677	3.14	1.348	27.762	37.000	45.826	2.898	302.7	-0.29	0.014	1.29	0.415	3161.0
3400	1.527	34.681	3.29	1.270	27.770	37.013	45.843	2.987	332.8	-0.46	0.023	2.13	0.533	3356.9
3600	1.458	34.685	3.48	1.183	27.780	37.028	45.862	3.075	364.0	-0.35	0.018	1.67	0.473	3552.6
3800	1.412	34.689	3.63	1.117	27.787	37.039	45.876	3.161	396.7	-0.42	0.021	2.04	0.522	3748.2
4000	1.354	34.693	3.84	1.039	27.796	37.052	45.893	3.247	430.6	-0.38	0.021	1.92	0.506	3943.6
4200	1.304	34.697	4.02	0.968	27.804	37.064	45.909	3.330	465.6	-0.26	0.015	1.37	0.427	4138.9
4400	1.282	34.699	4.15	0.925	27.808	37.071	45.918	3.414	502.2	-0.22	0.012	1.17	0.395	4333.9
4600	1.278	34.701	4.24	0.899	27.812	37.075	45.924	3.497	540.5	-0.11	0.007	0.61	0.285	4528.8
4800	1.280	34.702	4.31	0.877	27.814	37.079	45.929	3.581	580.8	-0.09	0.006	0.49	0.256	4723.5
5000	1.290	34.703	4.36	0.863	27.816	37.082	45.932	3.666	623.2	-0.06	0.005	0.38	0.226	4918.1
5200	1.302	34.704	4.40	0.850	27.818	37.084	45.935	3.752	668.0	-0.04	0.004	0.28	0.194	5112.5
5400	1.323	34.705	4.41	0.846	27.818	37.085	45.936	3.839	715.2	-0.01	0.002	0.10	0.113	5306.7
5600	1.347	34.705	4.41	0.843	27.819	37.085	45.937	3.928	765.0	-0.01	0.002	0.09	0.110	5500.7
5800	1.373	34.706	4.42	0.842	27.819	37.086	45.938	4.019	817.7	-0.01	0.003	0.09	0.107	5694.6
6000	1.399	34.706	4.42	0.841	27.820	37.086	45.938	4.111	873.3	-0.01	0.002	0.09	0.000	5888.4
6053	1.406	34.707	4.38	0.840	27.820	37.087	45.939	4.136	888.6	-1.62	0.024	0.09	0.000	5939.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.8	27.399	27.396	22.136	30.392	38.297	34.393	34.392	5.08	1.11	0.19	0.01	-0.01			8	222222255
23	46.6	27.388	27.377	22.144	30.401	38.306	34.395	34.391	4.88	1.11	0.19	0.11	-0.01			46	222222255
22	80.5	24.142	24.125	23.697	32.028	40.002	35.120	35.113	4.90	1.51	0.20	0.11	-0.01			80	222222255
21	146.1	14.155	14.134	25.808	34.462	42.738	34.545	34.519	3.12	13.49	1.27	16.11	-0.01			145	222222255
20	197.5	11.310	11.285	26.440	35.203	43.582	34.636	34.631	0.60	30.41	2.47	33.11	-0.01			196	222222255
19	246.2	10.505	10.476	26.616	35.411	43.821	34.674	34.674	0.60	33.43	2.51	35.11	-0.01			244	222222255
18	296.6	9.886	9.852	26.720	35.542	43.976	34.671	34.671	0.58	35.54	2.59	36.41	-0.01			294	222222255
17	396.6	9.003	8.960	26.841	35.702	44.173	34.638	34.635	0.52	41.08	2.73	38.01	-0.01			393	222222255
16	497.6	8.119	8.068	26.945	35.846	44.355	34.594	34.595	0.54	49.54	2.89	39.11	-0.01			494	222222255
15	697.5	6.392	6.328	27.145	36.128	44.712	34.537	34.537	0.86	67.66	3.02	41.61	-0.01			692	222222255
14	997.3	4.743	4.661	27.359	36.423	45.084	34.552	34.552	1.17	93.14	3.12	43.51	-0.01			989	222222255
13	1499.2	3.112	3.003	27.561	36.711	45.452	34.595	34.594	1.89	127.07	2.98	41.71	-0.01			1485	222222255
12	1999.8	2.217	2.077	27.672	36.871	45.659	34.634	34.633	2.38	147.31	2.85	40.61	-0.01			1979	222222255
11	2751.1	1.722	1.524	27.742	36.971	45.787	34.668	34.667	2.87	156.98	2.73	39.20	0.00			2717	222222255
9	4254.1	1.302	0.961	27.804	37.064	45.909	34.696	34.701	4.08	138.85	2.45	35.70	0.00			4188	222222255
8	5005.9	1.289	0.861	27.815	37.081	45.931	34.702	34.703	4.37	131.10	2.39	34.70	0.00			4920	222222255
7	5205.4	1.302	0.850	27.816	37.083	45.934	34.703	34.704	4.39	130.59	2.36	34.60	0.00			5113	222222255
6	5404.9	1.324	0.846	27.818	37.084	45.936	34.704	34.706	4.40	130.70	2.37	34.60	0.00			5307	222222255
5	5605.6	1.348	0.844	27.818	37.084	45.936	34.704	34.705	4.41	130.59	2.36	34.50	0.00			5502	222222255
4	5703.9	1.360	0.842	27.819	37.086	45.937	34.705	34.705	4.42	130.49	2.36	34.50	0.00			5597	222222255
3	5804.2	1.373	0.842	27.819	37.085	45.937	34.705	34.704	4.41	130.19	2.36	34.60	0.00			5694	222222255
2	5902.3	1.386	0.842	27.818	37.085	45.937	34.704	34.701	4.42	130.19	2.35	34.60	0.00			5789	222222255
1	6054.7	1.406	0.840	27.819	37.086	45.938	34.706		4.54	130.39	2.36	34.60	0.00			5937	252222255

CRUISE: MW 893 STA: 102 DATE (D/M/Y): 15- 3-89 TIME: 1951 LAT: 9 30.14 N LONG: 175 19.12 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24077E-04 1/S SOUND SPEED= 1514.0 M/S Depth= 6121 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.511	34.507	5.37	27.511	22.184	30.437	38.338	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.511	34.507	5.37	27.511	22.184	30.437	38.338	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.521	34.495	5.20	27.516	22.174	30.426	38.327	0.113	0.1	-0.09	-0.064	-0.45	-0.246	20.0
30	27.522	34.495	5.00	27.515	22.174	30.426	38.327	0.170	0.3	-0.06	-0.001	0.44	0.241	30.0
40	27.524	34.494	4.92	27.515	22.174	30.426	38.327	0.226	0.5	-0.04	-0.077	-1.08	-0.379	40.0
50	27.526	34.494	4.97	27.514	22.174	30.427	38.327	0.283	0.7	0.00	0.004	0.08	0.105	50.0
100	22.790	35.021	4.50	22.770	24.018	32.386	40.397	0.537	2.6	-119.00	3.999	887.64	10.881	100.0
125	20.187	34.917	3.88	20.164	24.657	33.103	41.185	0.629	3.7	-111.90	-5.424	622.72	9.113	124.9
150	17.661	34.796	3.61	17.635	25.206	33.734	41.893	0.705	4.7	-113.01	-7.512	525.32	8.370	149.8
200	12.457	34.487	1.56	12.430	26.109	34.828	43.166	0.822	6.8	-60.89	1.656	317.58	6.508	199.6
250	10.549	34.546	0.89	10.520	26.508	35.303	43.713	0.908	8.8	-12.37	3.112	109.83	3.827	249.4
300	10.083	34.652	0.52	10.048	26.673	35.486	43.913	0.983	10.9	-10.25	0.533	52.61	2.649	299.1
350	9.693	34.672	0.50	9.653	26.755	35.585	44.028	1.052	13.2	-9.23	-0.331	31.74	2.057	348.8
400	9.287	34.652	0.47	9.242	26.807	35.655	44.114	1.119	15.7	-8.23	-0.480	24.25	1.798	398.5
450	8.857	34.628	0.54	8.808	26.858	35.725	44.202	1.183	18.5	-7.35	-0.276	23.91	1.786	448.2
500	8.438	34.610	0.49	8.385	26.909	35.796	44.291	1.246	21.6	-11.22	-0.743	29.70	1.990	497.9
600	7.368	34.557	0.74	7.309	27.027	35.963	44.504	1.364	28.2	-9.14	-0.252	28.90	1.963	597.1
700	6.544	34.542	0.79	6.479	27.128	36.104	44.682	1.472	35.3	-7.93	-0.107	25.88	1.858	696.4
800	5.836	34.540	0.82	5.765	27.219	36.228	44.839	1.572	42.9	-7.68	0.037	26.67	1.886	795.6
900	5.189	34.545	1.00	5.113	27.301	36.343	44.983	1.662	50.8	-5.00	0.040	17.11	1.511	894.7
1000	4.725	34.551	1.18	4.644	27.360	36.425	45.087	1.747	59.0	-4.92	0.105	17.75	1.539	993.8
1200	3.899	34.572	1.53	3.808	27.466	36.573	45.275	1.900	76.2	-3.45	0.097	12.53	1.292	1191.7
1400	3.328	34.588	1.79	3.224	27.535	36.673	45.404	2.037	94.3	-2.47	0.076	8.96	1.093	1389.5
1600	2.832	34.603	2.02	2.718	27.594	36.758	45.514	2.162	113.4	-2.54	0.089	9.44	1.122	1587.1
1800	2.411	34.623	2.19	2.286	27.647	36.834	45.611	2.276	133.0	-1.83	0.094	7.37	0.991	1784.5
2000	2.173	34.637	2.40	2.034	27.678	36.880	45.670	2.381	153.4	-1.03	0.058	4.28	0.756	1981.7
2200	2.009	34.649	2.55	1.855	27.701	36.912	45.711	2.481	174.8	-0.79	0.048	3.42	0.675	2178.7
2400	1.891	34.657	2.66	1.722	27.718	36.936	45.742	2.578	197.5	-0.57	0.033	2.49	0.577	2375.5
2600	1.796	34.663	2.76	1.610	27.732	36.956	45.767	2.672	221.6	-0.54	0.030	2.37	0.562	2572.2
2800	1.720	34.668	2.88	1.518	27.743	36.972	45.788	2.765	247.2	-0.54	0.029	2.41	0.567	2768.6
3000	1.643	34.673	3.02	1.423	27.753	36.988	45.809	2.856	274.2	-0.43	0.021	1.91	0.505	2964.9
3200	1.581	34.677	3.15	1.343	27.762	37.001	45.827	2.946	302.6	-0.40	0.019	1.80	0.490	3161.0
3400	1.522	34.681	3.31	1.265	27.771	37.014	45.843	3.035	332.6	-0.40	0.020	1.89	0.501	3356.9
3600	1.461	34.685	3.47	1.186	27.780	37.027	45.861	3.123	364.0	-0.43	0.021	2.07	0.526	3552.7
3800	1.420	34.688	3.61	1.125	27.786	37.037	45.874	3.210	396.7	-0.32	0.016	1.56	0.456	3748.3
4000	1.375	34.692	3.81	1.059	27.794	37.048	45.889	3.296	430.9	-0.40	0.022	2.02	0.519	3943.7
4200	1.324	34.695	4.01	0.988	27.801	37.060	45.904	3.381	466.3	-0.27	0.014	1.39	0.430	4138.9
4400	1.294	34.698	4.15	0.936	27.807	37.069	45.916	3.465	503.2	-0.25	0.013	1.29	0.414	4334.0
4600	1.279	34.700	4.25	0.899	27.811	37.075	45.924	3.548	541.6	-0.12	0.007	0.66	0.298	4528.9
4800	1.280	34.702	4.30	0.877	27.814	37.079	45.928	3.632	581.9	-0.11	0.006	0.61	0.285	4723.6
5000	1.287	34.703	4.36	0.860	27.816	37.082	45.932	3.717	624.4	-0.08	0.007	0.49	0.256	4918.1
5200	1.301	34.704	4.40	0.849	27.817	37.084	45.935	3.803	669.1	-0.03	0.004	0.23	0.174	5112.5
5400	1.323	34.704	4.41	0.845	27.818	37.085	45.936	3.891	716.3	-0.01	0.002	0.11	0.120	5306.7
5600	1.347	34.705	4.42	0.843	27.818	37.085	45.937	3.980	766.2	-0.01	0.003	0.07	0.098	5500.8
5800	1.373	34.705	4.43	0.842	27.819	37.086	45.937	4.070	818.9	0.00	0.002	0.05	0.084	5694.7
6000	1.400	34.705	4.41	0.842	27.819	37.086	45.938	4.163	874.6	0.00	0.002	0.05	0.082	5888.4
6237	1.432	34.706	4.38	0.841	27.819	37.086	45.938	4.275	944.4	-1.58	0.023	0.05	0.000	6117.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	19.4	27.529	27.525	22.172	30.424	38.325	34.496	34.495	4.82	1.21	0.15	0.10	0.00	1.604	0.862	19	222222222
23	47.6	27.528	27.517	22.175	30.427	38.328	34.496	34.494	4.83	1.21	0.15	0.10	0.00	1.627	0.899	47	222222222
22	72.6	27.468	27.451	22.216	30.470	38.372	34.523	34.520	4.87	1.41	0.15	0.10	0.00	1.665	0.847	72	222222222
21	96.0	23.482	23.462	23.840	32.190	40.182	35.052	35.048	4.63	1.51	0.19	0.10	0.00	1.782	0.919	95	222222222
20	122.0	21.132	21.109	24.443	32.861	40.916	34.971	34.972	4.18	3.02	0.37	1.39	0.11	1.868	0.954	121	222222222
18	169.6	13.275	13.251	25.921	34.608	42.917	34.455	34.447	3.36	14.30	1.27	16.40	0.00			168	222222255
17	196.8	11.607	11.582	26.308	35.060	43.429	34.536	34.536	1.17	27.09	2.25	30.10	0.00	0.483	0.235	195	222222222
16	247.3	10.410	10.381	26.585	35.385	43.800	34.614	34.607	0.76	33.73	2.50	34.30	0.00			245	222222255
15	297.4	9.954	9.920	26.701	35.520	43.952	34.661	34.661	0.41	35.74	2.58	36.30	0.00			295	222222255
14	397.9	9.103	9.059	26.827	35.683	44.150	34.640	34.640	0.55	40.18	2.70	38.00	0.00			395	222222255
13	496.1	8.204	8.153	26.934	35.831	44.336	34.596	34.593	0.59	47.93	2.85	38.90	0.00	0.011	0.016	492	222222222
12	696.2	6.345	6.281	27.153	36.138	44.725	34.540	34.538	0.75	67.56	3.06	42.60	0.00	0.026	0.012	691	222222222
11	997.5	4.686	4.605	27.363	36.430	45.094	34.550	34.550	1.23	93.54	3.09	43.40	0.00	0.017	0.001	989	222222222
10	1497.7	3.135	3.026	27.558	36.706	45.446	34.593	34.591	1.91	126.37	2.97	42.00	0.00	0.008		1483	222222225
9	1998.0	2.192	2.053	27.677	36.877	45.666	34.637	34.634	2.40	147.21	2.86	41.00	0.00		0.001	1977	222222252
8	2501.1	1.852	1.674	27.723	36.944	45.752	34.659	34.659	2.71	153.96	2.76	40.10	0.00	-0.003	-0.005	2472	222222222
7	3002.7	1.647	1.427	27.753	36.987	45.808	34.672	34.672	3.04	156.37	2.67	39.30	0.00	-0.005	-0.005	2964	222222222
6	3502.8	1.497	1.231	27.773	37.018	45.850	34.681	34.682	3.41	152.14	2.59	38.00	0.00	0.000	-0.004	3454	222222252
5	4002.7	1.356	1.041	27.794	37.049	45.891	34.690	34.691	3.87	143.48	2.48	36.60	0.00	0.002	-0.005	3942	222222222
4	4503.7	1.283	0.914	27.808	37.071	45.919	34.698	34.702	4.20	134.62	2.41	35.50	0.00	0.002	0.001	4431	222222222
3	5003.9	1.288	0.861	27.814	37.080	45.931	34.701	34.702	4.37	129.29	2.35	34.70	0.00	0.015	0.006	4918	222222222
2	5495.8	1.334	0.844	27.817	37.084	45.936	34.703	34.702	4.39	130.39	2.35	34.90	0.00	-0.002		5395	222222225
1	6239.0	1.432	0.841	27.819	37.086	45.938	34.706		4.40	130.19	2.35	34.90	0.00	0.002	0.012	6115	252222222

CRUISE: MW 893 STA: 103 DATE (D/M/Y): 16- 3-89 TIME: 0459 LAT: 9 29.71 N LONG: 174 29.93 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24059E-04 1/S SOUND SPEED= 1513.1 M/S Depth= 6022 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.563	34.425	5.06	27.563	22.106	30.358	38.259	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.563	34.425	5.06	27.563	22.106	30.358	38.259	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.557	34.428	4.75	27.552	22.112	30.364	38.265	0.114	0.1	-11.38	-0.756	73.04	3.122	20.0
30	27.470	34.422	4.75	27.463	22.136	30.391	38.294	0.171	0.3	-0.89	-0.024	6.31	0.918	30.0
40	27.465	34.422	4.81	27.456	22.138	30.393	38.296	0.228	0.5	-0.43	-0.008	3.15	0.648	40.0
50	27.463	34.422	4.82	27.452	22.140	30.395	38.298	0.285	0.7	-0.40	0.042	3.80	0.712	50.0
100	22.533	35.021	4.51	22.513	24.091	32.467	40.484	0.540	2.6	-169.90	-1.175	1117.95	12.215	100.0
125	18.290	34.796	3.74	18.268	25.051	33.557	41.697	0.625	3.6	-156.51	-9.591	760.59	10.076	124.9
150	15.019	34.585	3.98	14.997	25.654	34.275	42.522	0.691	4.5	-101.41	-7.738	400.82	7.314	149.8
200	11.646	34.576	0.89	11.620	26.332	35.082	43.449	0.794	6.3	-39.46	3.973	251.34	5.792	199.6
250	10.588	34.680	0.54	10.558	26.606	35.398	43.804	0.873	8.2	-16.86	0.850	87.56	3.419	249.3
300	9.957	34.681	0.57	9.922	26.717	35.535	43.967	0.944	10.2	-9.28	-0.315	32.72	2.090	299.1
350	9.548	34.666	0.55	9.509	26.774	35.610	44.059	1.012	12.4	-7.30	-0.329	23.70	1.778	348.8
400	9.219	34.653	0.51	9.175	26.819	35.670	44.131	1.078	14.9	-7.78	-0.335	25.04	1.828	398.5
450	8.809	34.633	0.48	8.761	26.869	35.739	44.218	1.143	17.7	-11.12	-0.601	32.66	2.088	448.1
500	8.224	34.599	0.63	8.172	26.934	35.830	44.334	1.205	20.7	-11.92	-0.775	31.22	2.041	497.8
600	7.338	34.562	0.72	7.279	27.035	35.972	44.515	1.321	27.2	-8.59	-0.216	27.26	1.908	597.1
700	6.436	34.543	0.79	6.371	27.144	36.124	44.707	1.427	34.3	-7.82	-0.109	25.38	1.840	696.3
800	5.803	34.541	0.91	5.732	27.224	36.235	44.847	1.526	41.8	-6.15	0.045	21.54	1.696	795.5
900	5.212	34.545	1.06	5.136	27.299	36.339	44.978	1.617	49.7	-4.82	0.036	16.51	1.485	894.6
1000	4.749	34.551	1.26	4.668	27.357	36.421	45.082	1.702	57.9	-4.48	0.055	15.40	1.434	993.7
1200	4.032	34.567	1.60	3.939	27.448	36.549	45.245	1.858	75.4	-3.52	0.087	12.63	1.299	1191.7
1400	3.435	34.584	1.85	3.331	27.522	36.654	45.380	1.998	94.0	-2.55	0.075	9.27	1.112	1389.5
1600	2.921	34.599	2.06	2.806	27.582	36.742	45.493	2.126	113.6	-2.63	0.096	9.87	1.148	1587.1
1800	2.450	34.621	2.28	2.324	27.642	36.827	45.603	2.242	133.5	-1.85	0.099	7.55	1.004	1784.5
2000	2.201	34.637	2.44	2.061	27.676	36.876	45.664	2.347	154.0	-1.17	0.058	4.75	0.797	1981.7
2200	2.040	34.647	2.58	1.886	27.698	36.907	45.704	2.448	175.6	-0.84	0.050	3.62	0.695	2178.7
2400	1.909	34.656	2.68	1.739	27.716	36.933	45.738	2.546	198.5	-0.65	0.043	2.95	0.628	2375.5
2600	1.814	34.662	2.78	1.628	27.730	36.953	45.764	2.641	222.7	-0.46	0.023	1.96	0.512	2572.1
2800	1.752	34.666	2.87	1.549	27.739	36.966	45.781	2.734	248.5	-0.41	0.019	1.77	0.487	2768.6
3000	1.679	34.671	2.99	1.458	27.749	36.982	45.801	2.827	275.9	-0.48	0.025	2.17	0.538	2964.9
3200	1.616	34.675	3.13	1.377	27.758	36.995	45.819	2.918	304.8	-0.38	0.016	1.69	0.475	3161.0
3400	1.553	34.679	3.27	1.295	27.767	37.009	45.837	3.008	335.1	-0.41	0.024	1.97	0.513	3356.9
3600	1.494	34.683	3.45	1.218	27.776	37.022	45.854	3.097	366.9	-0.43	0.021	2.04	0.522	3552.7
3800	1.434	34.687	3.61	1.138	27.784	37.035	45.871	3.185	400.0	-0.46	0.022	2.23	0.546	3748.3
4000	1.371	34.692	3.81	1.056	27.794	37.049	45.889	3.271	434.2	-0.33	0.017	1.66	0.470	3943.7
4200	1.340	34.694	3.95	1.003	27.799	37.057	45.900	3.356	469.8	-0.29	0.015	1.46	0.441	4138.9
4400	1.300	34.697	4.12	0.943	27.806	37.067	45.914	3.441	506.8	-0.27	0.015	1.41	0.434	4333.9
4600	1.284	34.699	4.22	0.904	27.810	37.074	45.922	3.525	545.4	-0.14	0.007	0.74	0.315	4528.8
4800	1.287	34.701	4.30	0.883	27.813	37.077	45.927	3.609	585.8	-0.09	0.006	0.53	0.265	4723.6
5000	1.293	34.702	4.34	0.866	27.815	37.080	45.931	3.694	628.5	-0.09	0.007	0.55	0.270	4918.1
5200	1.305	34.703	4.39	0.853	27.816	37.083	45.934	3.781	673.3	-0.04	0.004	0.27	0.190	5112.5
5400	1.324	34.704	4.42	0.846	27.817	37.084	45.936	3.868	720.6	-0.03	0.003	0.17	0.151	5306.7
5600	1.348	34.704	4.44	0.844	27.818	37.085	45.936	3.957	770.6	0.00	0.002	0.06	0.086	5500.8
5800	1.373	34.705	4.45	0.843	27.818	37.085	45.937	4.048	823.4	-0.01	0.003	0.09	0.109	5694.7
6000	1.400	34.705	4.46	0.841	27.819	37.085	45.937	4.141	879.1	0.00	0.003	0.07	0.094	5888.4
6127	1.417	34.706	4.44	0.841	27.819	37.086	45.938	4.200	916.0	-1.60	0.024	0.07	0.000	6011.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.4	27.497	27.496	22.132	30.386	38.288	34.431	34.430	5.13	1.81	0.19	0.10	0.00			5	222222255
23	45.9	27.468	27.457	22.141	30.395	38.298	34.426		4.84	1.81	0.19	0.20	0.00			45	252222255
22	96.9	23.325	23.305	23.886	32.240	40.236	35.052	35.061	4.63	2.01	0.22	0.18	0.02			96	222222255
21	147.4	15.497	15.474	25.583	34.186	42.416	34.630	34.619	3.87	9.46	0.92	10.90	0.00			146	222222255
20	197.8	11.808	11.783	26.284	35.028	43.389	34.554	34.554	1.19	27.19	2.28	30.20	0.00			196	222222255
19	246.8	10.755	10.725	26.575	35.360	43.759	34.678	34.654	0.97							245	222555555
18	297.8	10.130	10.095	26.690	35.501	43.926	34.685	34.683	0.61	34.64	2.59	36.30	0.00			295	222222255
17	397.3	9.150	9.106	26.826	35.681	44.145	34.649	34.647	0.51	40.78	2.76	38.00	0.00			394	222222255
16	497.6	8.174	8.123	26.949	35.847	44.353	34.610	34.596	0.58	49.14	2.88	39.20	0.00			494	222222255
15	598.0	7.213	7.155	27.049	35.992	44.541	34.558	34.557	0.69	59.41	2.99	40.10	0.00			593	222222255
14	697.0	6.365	6.302	27.150	36.134	44.720	34.539	34.541	0.79	68.47	3.08	42.60	0.00			691	222222255
13	796.8	5.745	5.675	27.231	36.245	44.859	34.541	34.543	0.87	77.13	3.14	43.50	0.00			790	222222255
12	997.5	4.699	4.618	27.363	36.429	45.093	34.551	34.550	1.26	94.75	3.10	43.40	0.00			989	222222255
11	1497.5	3.068	2.960	27.565	36.717	45.460	34.594	34.593	1.97	130.19	2.97	41.80	0.00			1483	222222255
10	1998.1	2.198	2.059	27.677	36.877	45.666	34.638	34.637	2.49	149.63	2.87	40.80	0.00			1977	222222255
9	2500.2	1.877	1.699	27.721	36.940	45.747	34.658	34.658	2.71	157.38	2.79	40.20	0.00			2471	222222255
8	3002.1	1.692	1.471	27.747	36.978	45.797	34.669	34.670	2.99	159.09	2.72	39.20	0.00			2964	222222255
7	3503.1	1.538	1.271	27.770	37.013	45.842	34.680	34.682	3.34	156.07	2.63	38.10	0.00			3454	222222255
6	4004.9	1.383	1.067	27.791	37.045	45.885	34.689	34.691	3.73	146.60	2.52	36.70	0.00			3945	222222255
5	4501.9	1.293	0.924	27.806	37.069	45.916	34.696	34.699	4.21	137.54	2.44	35.60	0.00			4429	222222255
4	5254.9	1.312	0.853	27.814	37.080	45.932	34.700	34.703	4.39	132.31	2.36	34.90	0.00			5161	222222255
3	5505.5	1.336	0.845	27.816	37.083	45.935	34.702	34.703	4.43	132.11	2.36	34.90	0.00			5405	222222255
2	5801.6	1.374	0.843	27.817	37.084	45.936	34.703	34.703	4.45	132.81	2.37	34.50	0.00			5692	222222255
1	6131.2	1.418	0.842	27.818	37.084	45.936	34.704	34.704	4.45	132.61	2.39	34.89	0.01			6011	222222255

CRUISE: MW 893 STA: 104 DATE (D/M/Y): 16- 3-89 TIME: 1354 LAT: 9 29.56 N LONG: 173 39.99 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1511.1 M/S Depth= 5681 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.218	34.363	5.36	27.218	22.171	30.432	38.341	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.218	34.363	5.36	27.218	22.171	30.432	38.341	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.244	34.351	5.20	27.239	22.155	30.415	38.324	0.113	0.1	0.25	-0.008	-2.00	-0.517	20.0
30	27.248	34.351	5.19	27.241	22.154	30.414	38.323	0.170	0.3	-0.01	-0.011	-0.12	-0.125	30.0
40	27.250	34.351	5.18	27.241	22.154	30.414	38.323	0.227	0.5	-0.07	0.007	0.65	0.295	40.0
50	27.252	34.351	5.11	27.240	22.154	30.415	38.323	0.284	0.7	-0.49	0.065	4.87	0.806	50.0
100	22.164	34.974	4.54	22.144	24.159	32.546	40.574	0.523	2.5	-126.98	-3.287	771.89	10.151	99.9
125	18.392	34.800	3.58	18.371	25.028	33.531	41.668	0.607	3.5	-198.05	-13.304	924.91	11.112	124.9
150	14.699	34.548	3.47	14.676	25.695	34.328	42.586	0.671	4.4	-101.64	-7.707	369.48	7.023	149.8
200	11.166	34.556	0.95	11.141	26.404	35.174	43.559	0.768	6.1	-27.09	4.442	201.01	5.180	199.6
250	10.523	34.695	0.51	10.493	26.629	35.423	43.832	0.844	7.8	-13.19	-0.169	52.90	2.657	249.3
300	10.004	34.685	0.57	9.969	26.712	35.528	43.957	0.915	9.8	-8.43	-0.224	30.88	2.031	299.0
350	9.620	34.672	0.53	9.580	26.767	35.600	44.046	0.984	12.1	-7.50	-0.276	25.52	1.846	348.7
400	9.219	34.654	0.45	9.174	26.819	35.671	44.132	1.050	14.6	-9.33	-0.433	29.35	1.979	398.4
450	8.597	34.616	0.52	8.549	26.889	35.768	44.256	1.113	17.4	-11.10	-0.662	30.95	2.033	448.1
500	8.210	34.605	0.48	8.158	26.940	35.837	44.341	1.174	20.3	-8.69	-0.328	27.00	1.899	497.8
600	7.281	34.566	0.52	7.223	27.046	35.986	44.531	1.290	26.8	-9.62	-0.262	30.07	2.004	597.1
700	6.406	34.548	0.60	6.341	27.152	36.134	44.718	1.395	33.8	-7.70	-0.088	25.11	1.831	696.3
800	5.804	34.543	0.94	5.734	27.225	36.236	44.848	1.493	41.2	-4.58	-0.016	15.22	1.425	795.5
900	5.274	34.546	1.16	5.198	27.292	36.330	44.966	1.585	49.2	-5.78	0.047	20.07	1.637	894.6
1000	4.838	34.549	1.21	4.756	27.345	36.405	45.062	1.671	57.5	-4.80	0.041	16.31	1.475	993.7
1200	4.123	34.566	1.44	4.029	27.438	36.534	45.226	1.829	75.2	-3.36	0.092	12.29	1.281	1191.7
1400	3.536	34.583	1.73	3.431	27.512	36.639	45.359	1.971	94.1	-2.53	0.077	9.31	1.115	1389.5
1600	2.995	34.601	1.99	2.879	27.577	36.733	45.481	2.101	114.0	-2.67	0.094	10.03	1.157	1587.0
1800	2.585	34.618	2.17	2.457	27.628	36.807	45.575	2.219	134.4	-1.61	0.076	6.43	0.927	1784.4
2000	2.294	34.634	2.35	2.153	27.666	36.861	45.645	2.329	155.6	-1.30	0.070	5.41	0.850	1981.6
2200	2.105	34.645	2.49	1.950	27.691	36.897	45.691	2.432	177.8	-0.98	0.055	4.19	0.748	2178.7
2400	1.970	34.653	2.61	1.799	27.710	36.923	45.725	2.532	201.1	-0.66	0.034	2.79	0.610	2375.5
2600	1.862	34.659	2.74	1.675	27.724	36.944	45.752	2.629	225.9	-0.54	0.029	2.36	0.561	2572.1
2800	1.788	34.664	2.81	1.584	27.735	36.960	45.773	2.724	252.1	-0.50	0.022	2.13	0.534	2768.6
3000	1.707	34.670	2.96	1.485	27.746	36.977	45.795	2.818	279.8	-0.47	0.028	2.19	0.540	2964.9
3200	1.637	34.674	3.09	1.397	27.756	36.992	45.815	2.910	308.9	-0.41	0.017	1.83	0.494	3161.0
3400	1.577	34.678	3.22	1.320	27.764	37.005	45.831	3.001	339.6	-0.38	0.018	1.76	0.485	3356.9
3600	1.524	34.681	3.37	1.247	27.772	37.017	45.847	3.091	371.7	-0.41	0.019	1.95	0.510	3552.7
3800	1.464	34.685	3.54	1.167	27.781	37.030	45.865	3.180	405.2	-0.38	0.018	1.85	0.498	3748.2
4000	1.404	34.689	3.73	1.088	27.790	37.043	45.882	3.267	440.0	-0.43	0.021	2.11	0.531	3943.6
4200	1.347	34.693	3.92	1.010	27.798	37.056	45.899	3.353	476.0	-0.42	0.023	2.17	0.538	4138.9
4400	1.309	34.697	4.10	0.951	27.805	37.066	45.912	3.438	513.2	-0.38	0.017	1.59	0.461	4333.9
4600	1.282	34.700	4.25	0.902	27.811	37.074	45.923	3.522	551.8	-0.19	0.012	1.06	0.377	4528.8
4800	1.284	34.701	4.32	0.881	27.813	37.078	45.928	3.606	592.2	-0.09	0.005	0.47	0.251	4723.5
5000	1.293	34.702	4.37	0.865	27.815	37.080	45.931	3.692	634.8	-0.09	0.007	0.56	0.273	4918.1
5200	1.305	34.703	4.42	0.853	27.817	37.083	45.934	3.778	679.6	-0.07	0.006	0.44	0.243	5112.5
5400	1.323	34.704	4.45	0.845	27.818	37.084	45.936	3.865	726.9	-0.01	0.002	0.10	0.114	5306.7
5600	1.348	34.704	4.46	0.844	27.818	37.085	45.936	3.954	776.8	-0.01	0.003	0.07	0.097	5500.8
5800	1.374	34.705	4.44	0.843	27.818	37.085	45.937	4.045	829.6	-0.01	0.004	0.07	0.000	5694.7
5835	1.378	34.705	4.46	0.843	27.819	37.085	45.937	4.061	839.1	-0.01	0.003	0.07	0.000	5728.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.7	27.229	27.227	22.160	30.421	38.330	34.353	34.354	4.65	1.21	0.20	0.00	0.00	1.658	0.904	5	222222222
23	45.7	27.235	27.224	22.162	30.423	38.332	34.354	34.354	4.91	1.31	0.20	0.00	0.00	1.651	0.907	45	222222222
22	95.1	23.426	23.407	23.850	32.201	40.195	35.043	34.995	4.76	1.51	0.26	0.17	0.03	1.860	0.934	94	222222222
21	145.6	14.609	14.587	25.716	34.352	42.613	34.550	34.548	3.67	10.77	1.05	12.60	0.00	1.691	0.838	144	222222222
20	196.1	11.007	10.983	26.464	35.240	43.631	34.596	34.587	0.81	30.61	2.41	32.10	0.00	0.281	0.155	194	222222222
19	246.1	10.466	10.437	26.638	35.435	43.846	34.694	34.692	0.52	33.13	2.54	35.30	0.00	0.086	0.045	244	222222222
18	296.1	10.030	9.996	26.709	35.524	43.952	34.687	34.684	0.61	34.84	2.57	35.90	0.00	0.046		294	222222225
17	396.6	9.282	9.238	26.818	35.666	44.125	34.666	34.657	0.47	39.07	2.70	37.40	0.00	0.020		393	222222225
16	495.3	8.320	8.268	26.925	35.817	44.317	34.607	34.600	0.60	46.62	2.82	38.30	0.00	0.021		491	222222225
15	597.1	7.492	7.433	27.023	35.953	44.489	34.574	34.574	0.52	55.18	2.98	39.90	0.00	0.021	0.015	592	222222222
14	796.6	5.829	5.758	27.222	36.231	44.842	34.542	34.543	0.80	73.91	3.10	43.00	0.00	0.019	0.007	790	222222222
13	995.4	4.892	4.810	27.338	36.395	45.049	34.547	34.549	1.10	89.21	3.08	43.30	0.00	0.005	0.006	987	222222222
12	1247.0	3.902	3.806	27.464	36.572	45.274	34.570	34.573	1.56	109.25	3.02	42.20	0.00	0.018	0.012	1236	222222222
11	1497.1	3.262	3.151	27.544	36.685	45.419	34.590	34.590	1.82	123.45	2.97	41.80	0.00			1483	222222255
10	1997.0	2.301	2.160	27.665	36.860	45.643	34.634	34.634	2.33	146.10	2.84	40.70	0.00			1976	222222255
9	2499.5	1.940	1.761	27.714	36.930	45.734	34.655	34.656	2.66	153.35	2.77	39.70	0.00			2470	222222255
8	3002.5	1.713	1.492	27.745	36.975	45.793	34.668	34.668	2.96	156.57	2.68	39.00	0.00			2964	222222255
7	3501.5	1.552	1.285	27.768	37.010	45.839	34.679	34.679	3.33	153.65	2.58	37.50	0.00			3453	222222255
6	4001.0	1.400	1.084	27.789	37.042	45.882	34.688	34.691	3.78	146.40	2.50	36.39	0.01			3941	222222255
5	4503.1	1.294	0.925	27.807	37.069	45.917	34.697	34.698	4.19	135.43	2.40	35.09	0.01			4430	222222255
4	5002.5	1.292	0.865	27.814	37.080	45.930	34.701	34.702	4.35	131.70	2.33	34.39	0.01			4916	222222255
3	5302.7	1.312	0.847	27.816	37.083	45.934	34.703	34.703	4.44	130.19	2.31	34.29	0.01			5208	222222255
2	5601.9	1.348	0.844	27.818	37.084	45.936	34.704	34.703	4.42	130.59	2.32	34.29	0.01	0.001	0.014	5498	222222222
1	5836.7	1.378	0.842	27.818	37.085	45.937	34.705	34.701	4.40	130.39	2.32	34.09	0.01			5726	222222255

CRUISE: MW 893 STA: 105 DATE (D/M/Y): 16- 3-89 TIME: 2300 LAT: 9 29.51 N LONG: 172 50.23 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24050E-04 1/S SOUND SPEED= 1512.0 M/S Depth= 5880 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.287	34.473	5.26	27.287	22.231	30.489	38.396	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.287	34.473	5.26	27.287	22.231	30.489	38.396	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.240	34.464	4.94	27.236	22.241	30.500	38.408	0.112	0.1	-1.67	-0.008	12.43	1.289	20.0
30	27.228	34.464	4.94	27.221	22.245	30.505	38.413	0.168	0.3	-1.08	-0.086	6.60	0.939	30.0
40	27.224	34.463	4.90	27.214	22.247	30.507	38.415	0.224	0.5	-0.71	-0.068	4.13	0.742	40.0
50	27.217	34.463	5.02	27.206	22.249	30.510	38.418	0.280	0.7	-0.66	0.012	5.20	0.834	50.0
100	24.759	34.839	4.35	24.737	23.301	31.619	39.581	0.551	2.8	-136.69	8.059	1109.56	12.171	100.0
125	21.097	34.825	3.90	21.073	24.343	32.762	40.821	0.655	4.0	-190.41	-1.730	1218.28	12.754	124.9
150	16.432	34.666	3.20	16.408	25.398	33.968	42.168	0.733	5.0	-192.47	-11.390	889.36	10.897	149.8
200	11.466	34.610	0.69	11.440	26.392	35.148	43.522	0.834	6.8	-29.99	2.433	178.96	4.888	199.6
250	10.661	34.688	0.47	10.631	26.599	35.388	43.791	0.913	8.6	-9.80	0.714	55.09	2.712	249.4
300	10.113	34.683	0.51	10.078	26.692	35.504	43.929	0.986	10.7	-9.30	-0.027	38.38	2.264	299.1
350	9.731	34.680	0.50	9.691	26.754	35.583	44.023	1.055	13.0	-10.27	-0.504	32.80	2.093	348.8
400	9.176	34.652	0.45	9.132	26.825	35.678	44.141	1.121	15.5	-7.72	-0.306	25.23	1.836	398.5
450	8.825	34.635	0.43	8.776	26.868	35.737	44.215	1.185	18.3	-9.31	-0.515	27.06	1.901	448.2
500	8.324	34.601	0.58	8.272	26.920	35.812	44.312	1.247	21.3	-12.07	-0.783	31.74	2.058	497.9
600	7.109	34.555	0.70	7.051	27.062	36.010	44.562	1.363	27.7	-10.38	-0.291	32.19	2.073	597.1
700	6.369	34.536	0.90	6.304	27.147	36.131	44.717	1.467	34.7	-5.91	-0.063	19.05	1.595	696.4
800	5.737	34.536	0.99	5.667	27.228	36.242	44.857	1.565	42.2	-6.50	-0.025	21.34	1.688	795.6
900	5.132	34.546	0.98	5.056	27.309	36.353	44.996	1.656	50.0	-5.72	0.088	20.26	1.645	894.7
1000	4.644	34.552	1.26	4.564	27.370	36.439	45.105	1.739	58.1	-4.56	0.078	15.96	1.460	993.7
1200	3.855	34.576	1.46	3.763	27.473	36.583	45.287	1.890	75.0	-2.86	0.072	10.22	1.168	1191.7
1400	3.360	34.590	1.71	3.256	27.534	36.670	45.399	2.027	93.2	-2.55	0.074	9.21	1.109	1389.5
1600	2.901	34.603	2.04	2.786	27.587	36.748	45.500	2.153	112.4	-2.13	0.074	7.91	1.027	1587.1
1800	2.555	34.618	2.20	2.428	27.631	36.811	45.581	2.269	132.5	-1.76	0.082	6.97	0.964	1784.5
2000	2.257	34.633	2.38	2.116	27.668	36.865	45.651	2.377	153.5	-1.19	0.052	4.73	0.795	1981.7
2200	2.078	34.645	2.51	1.923	27.693	36.900	45.696	2.480	175.4	-0.81	0.066	3.84	0.716	2178.7
2400	1.952	34.655	2.60	1.781	27.712	36.927	45.730	2.579	198.6	-0.60	0.032	2.59	0.588	2375.5
2600	1.860	34.660	2.70	1.673	27.725	36.945	45.754	2.676	223.2	-0.55	0.029	2.41	0.568	2572.2
2800	1.781	34.665	2.80	1.577	27.736	36.962	45.775	2.770	249.4	-0.50	0.025	2.20	0.542	2768.6
3000	1.705	34.670	2.92	1.484	27.746	36.977	45.796	2.864	277.1	-0.51	0.027	2.33	0.558	2964.9
3200	1.630	34.674	3.08	1.391	27.757	36.993	45.816	2.956	306.1	-0.46	0.023	2.13	0.533	3161.0
3400	1.564	34.679	3.23	1.307	27.766	37.007	45.835	3.046	336.6	-0.42	0.019	1.93	0.508	3357.0
3600	1.504	34.683	3.38	1.228	27.775	37.020	45.852	3.136	368.5	-0.43	0.022	2.07	0.526	3552.7
3800	1.444	34.686	3.57	1.148	27.783	37.033	45.869	3.224	401.6	-0.39	0.017	1.83	0.494	3748.3
4000	1.383	34.691	3.75	1.067	27.792	37.047	45.887	3.310	436.1	-0.41	0.020	2.03	0.520	3943.7
4200	1.343	34.694	3.92	1.007	27.799	37.057	45.900	3.396	471.7	-0.27	0.015	1.39	0.431	4138.9
4400	1.314	34.697	4.06	0.956	27.805	37.065	45.911	3.480	508.9	-0.22	0.012	1.15	0.392	4334.0
4600	1.296	34.699	4.18	0.916	27.809	37.072	45.920	3.565	547.7	-0.17	0.009	0.90	0.346	4528.9
4800	1.297	34.700	4.25	0.893	27.812	37.076	45.925	3.650	588.4	-0.11	0.006	0.60	0.283	4723.6
5000	1.303	34.702	4.30	0.875	27.814	37.079	45.929	3.735	631.2	-0.08	0.006	0.48	0.254	4918.1
5200	1.313	34.703	4.35	0.860	27.816	37.082	45.932	3.822	676.2	-0.05	0.004	0.30	0.201	5112.5
5400	1.331	34.703	4.38	0.853	27.817	37.083	45.934	3.910	723.7	-0.04	0.004	0.26	0.185	5306.8
5600	1.351	34.704	4.40	0.847	27.818	37.084	45.936	3.999	773.8	-0.02	0.003	0.18	0.154	5500.8
5800	1.374	34.705	4.40	0.843	27.818	37.085	45.937	4.090	826.6	-0.02	0.003	0.14	0.137	5694.7
5953	1.393	34.705	4.37	0.841	27.819	37.086	45.937	4.160	868.9	-0.01	-0.001	0.14	0.000	5842.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	27.261	27.260	22.224	30.483	38.390	34.452	34.446	5.26	1.21	0.16	0.00	0.00			6	222222255
23	46.7	27.221	27.210	22.245	30.505	38.413	34.458	34.458	5.16	1.61	0.19	0.00	0.00			46	222222255
22	96.5	21.144	21.126	24.357	32.775	40.831	34.863	34.831	4.11	3.52	0.49	3.28	0.42			95	222222255
21	147.5	13.549	13.528	25.912	34.588	42.887	34.517	34.537	2.30	16.61	1.61	20.70	0.00			146	222222255
20	196.6	11.411	11.386	26.407	35.166	43.542	34.617	34.619	0.73	29.60	2.43	32.80	0.00			195	222222255
19	247.5	10.635	10.605	26.605	35.394	43.799	34.689	34.684	0.52	32.62	2.53	35.20	0.00			245	222222255
18	295.9	10.106	10.071	26.693	35.505	43.931	34.683	34.687	0.56	34.13	2.56	36.10	0.00			294	222222255
17	346.5	9.772	9.732	26.752	35.579	44.018	34.686	34.681	0.55	35.54	2.60	37.00	0.00			344	222222255
16	398.2	9.301	9.257	26.806	35.653	44.112	34.654	34.662	0.51	39.17	2.69	37.80	0.00			395	222222255
15	498.6	8.627	8.574	26.890	35.768	44.255	34.623	34.624	0.46	45.01	2.84	38.60	0.00			495	222222255
14	597.9	7.398	7.339	27.032	35.967	44.507	34.570	34.560	0.68	55.78	2.94	40.30	0.00			593	222222255
13	799.0	5.751	5.681	27.230	36.243	44.858	34.540	34.540	0.99	76.22	3.04	42.90	0.00			792	222222255
12	996.4	4.706	4.625	27.360	36.426	45.089	34.548	34.549	1.21	93.14	3.08	43.40	0.00			988	222222255
11	1247.0	3.778	3.683	27.483	36.597	45.305	34.578	34.578	1.53	113.78	3.05	43.20	0.00			1236	222222255
10	1498.4	3.146	3.036	27.562	36.709	45.449	34.599	34.598	1.83	127.47	3.00	42.30	0.00			1484	222222255
9	2000.0	2.283	2.142	27.665	36.861	45.645	34.632	34.637	2.35	147.41	2.87	41.00	0.00			1979	222222255
8	2501.3	1.917	1.738	27.717	36.934	45.739	34.657	34.658	2.67	155.97	2.80	40.10	0.00			2472	222222255
7	3001.2	1.718	1.497	27.744	36.975	45.792	34.668	34.668	2.93	158.28	2.71	39.40	0.00			2963	222222255
6	3502.9	1.542	1.275	27.769	37.012	45.841	34.679	34.682	3.34	155.77	2.62	38.20	0.00			3454	222222255
5	4003.5	1.389	1.073	27.790	37.044	45.884	34.689	34.691	3.78	147.41	2.52	36.70	0.00			3943	222222255
4	4505.1	1.304	0.935	27.806	37.068	45.915	34.697	34.696	4.18	138.15	2.43	35.60	0.00			4432	222222255
3	5005.3	1.303	0.875	27.813	37.078	45.928	34.701	34.705	4.33	133.21	2.37	34.90	0.00			4919	222222255
1	5945.8	1.391	0.841	27.818	37.085	45.937	34.704		4.38	132.51	2.36	34.89	0.01			5831	252222255

CRUISE: MW 893 STA: 106 DATE (D/M/Y): 17- 3-89 TIME: 0823 LAT: 9 29.73 N LONG: 172 0.25 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24060E-04 1/S SOUND SPEED= 1509.8 M/S Depth= 5646 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.049	34.419	5.23	27.049	22.267	30.531	38.443	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.049	34.419	5.23	27.049	22.267	30.531	38.443	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.067	34.411	5.07	27.062	22.256	30.520	38.432	0.111	0.1	-0.76	-0.149	3.09	0.642	20.0
30	27.060	34.409	4.94	27.053	22.258	30.522	38.434	0.167	0.3	0.36	0.010	-2.54	-0.582	30.0
40	27.047	34.407	4.85	27.038	22.261	30.526	38.438	0.223	0.5	-5.72	-0.619	31.96	2.065	40.0
50	27.007	34.401	4.87	26.996	22.270	30.536	38.450	0.279	0.7	-1.27	-0.243	5.25	0.837	50.0
100	22.609	34.875	4.62	22.589	23.958	32.334	40.350	0.526	2.6	-129.23	2.314	898.09	10.948	99.9
125	18.974	34.800	3.70	18.952	24.882	33.367	41.486	0.614	3.6	-141.38	-5.876	769.25	10.133	124.9
150	15.622	34.620	2.95	15.598	25.547	34.146	42.373	0.683	4.5	-158.29	-11.689	646.21	9.287	149.8
200	11.486	34.499	1.21	11.461	26.302	35.059	43.433	0.786	6.3	-35.19	4.190	233.88	5.587	199.6
250	10.485	34.674	0.47	10.455	26.619	35.415	43.826	0.865	8.2	-19.97	0.314	90.21	3.470	249.3
300	9.791	34.673	0.50	9.757	26.738	35.564	44.002	0.935	10.1	-6.55	0.047	27.79	1.926	299.0
350	9.348	34.640	0.59	9.309	26.786	35.632	44.088	1.002	12.4	-12.50	-1.074	30.62	2.021	348.8
400	8.890	34.627	0.60	8.846	26.851	35.717	44.192	1.067	14.8	-8.94	-0.692	22.41	1.730	398.4
450	8.484	34.600	0.81	8.436	26.894	35.778	44.271	1.130	17.6	-8.04	-0.412	23.44	1.769	448.1
500	8.034	34.578	0.87	7.983	26.945	35.850	44.363	1.191	20.5	-10.45	-0.460	30.93	2.032	497.8
600	7.172	34.553	0.79	7.114	27.051	35.996	44.546	1.305	26.9	-7.76	-0.217	23.99	1.789	597.1
700	6.360	34.536	0.96	6.296	27.148	36.132	44.719	1.412	34.0	-8.63	-0.137	27.35	1.911	696.3
800	5.717	34.534	1.13	5.648	27.229	36.244	44.860	1.509	41.4	-5.04	0.026	17.36	1.522	795.5
900	5.231	34.542	1.16	5.155	27.294	36.334	44.972	1.600	49.3	-5.52	0.078	19.38	1.608	894.6
1000	4.714	34.549	1.33	4.633	27.360	36.425	45.088	1.685	57.5	-4.09	0.087	14.73	1.402	993.7
1200	3.923	34.571	1.58	3.830	27.462	36.569	45.270	1.840	74.9	-4.04	0.099	14.41	1.387	1191.7
1400	3.267	34.590	1.86	3.165	27.542	36.683	45.417	1.976	92.9	-2.61	0.075	9.37	1.119	1389.5
1600	2.853	34.603	2.08	2.738	27.591	36.755	45.509	2.100	111.9	-1.96	0.077	7.39	0.993	1587.0
1800	2.482	34.621	2.25	2.356	27.639	36.823	45.597	2.215	131.8	-1.77	0.080	6.96	0.964	1784.4
2000	2.202	34.636	2.42	2.063	27.675	36.875	45.663	2.322	152.4	-1.19	0.068	5.01	0.818	1981.6
2200	2.029	34.647	2.54	1.875	27.699	36.909	45.707	2.423	174.1	-0.82	0.048	3.51	0.685	2178.6
2400	1.923	34.654	2.63	1.753	27.714	36.930	45.735	2.521	197.0	-0.64	0.039	2.81	0.613	2375.5
2600	1.826	34.661	2.72	1.640	27.728	36.950	45.761	2.616	221.3	-0.50	0.028	2.20	0.542	2572.1
2800	1.741	34.667	2.85	1.538	27.740	36.968	45.784	2.710	247.2	-0.57	0.030	2.54	0.582	2768.6
3000	1.659	34.672	3.00	1.438	27.751	36.985	45.806	2.802	274.4	-0.40	0.018	1.75	0.484	2964.9
3200	1.593	34.676	3.14	1.355	27.761	36.999	45.824	2.893	303.0	-0.44	0.021	2.03	0.520	3161.0
3400	1.530	34.680	3.31	1.273	27.770	37.012	45.842	2.982	333.1	-0.42	0.020	1.93	0.508	3356.9
3600	1.473	34.683	3.46	1.197	27.778	37.025	45.858	3.070	364.5	-0.35	0.017	1.66	0.471	3552.6
3800	1.419	34.687	3.63	1.124	27.786	37.037	45.874	3.157	397.4	-0.40	0.020	1.95	0.510	3748.2
4000	1.363	34.692	3.81	1.048	27.794	37.050	45.891	3.243	431.5	-0.34	0.018	1.69	0.475	3943.6
4200	1.323	34.695	3.98	0.987	27.801	37.060	45.904	3.328	467.0	-0.32	0.017	1.63	0.466	4138.9
4400	1.294	34.698	4.13	0.936	27.807	37.068	45.915	3.412	503.8	-0.28	0.015	1.48	0.444	4333.9
4600	1.280	34.700	4.25	0.900	27.811	37.074	45.923	3.495	542.3	-0.13	0.007	0.68	0.302	4528.8
4800	1.282	34.701	4.32	0.879	27.813	37.078	45.928	3.580	582.7	-0.10	0.006	0.56	0.272	4723.5
5000	1.290	34.702	4.37	0.862	27.815	37.081	45.932	3.665	625.2	-0.07	0.005	0.40	0.232	4918.1
5200	1.305	34.703	4.40	0.853	27.817	37.083	45.934	3.751	670.0	-0.03	0.003	0.18	0.156	5112.5
5400	1.325	34.704	4.44	0.847	27.818	37.084	45.936	3.838	717.4	-0.03	0.003	0.19	0.157	5306.7
5600	1.348	34.704	4.46	0.844	27.818	37.085	45.936	3.927	767.3	-0.01	0.003	0.19	0.000	5500.7
5677	1.357	34.705	4.47	0.843	27.819	37.085	45.937	3.962	787.3	-0.01	0.005	0.19	0.000	5575.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	7.8	27.031	27.030	22.265	30.530	38.443	34.409	34.408	5.10	1.31	0.17	0.00	0.00			7	222222255
23	47.7	27.028	27.017	22.268	30.533	38.446	34.407	34.404	4.95	1.31	0.17	0.00	0.00			47	222222255
22	97.1	21.632	21.614	24.247	32.650	40.693	34.895	34.893	4.62	2.01	0.29	0.27	0.03			96	222222255
21	148.0	15.089	15.066	25.629	34.248	42.493	34.573	34.557	3.13	11.48	1.18	14.80	0.00			147	222222255
20	196.7	11.762	11.737	26.227	34.974	43.338	34.469	34.463	1.90	24.17	1.93	25.90	0.00			195	222222255
19	295.8	9.988	9.954	26.702	35.519	43.950	34.669	34.671	0.53	34.64	2.54	35.70	0.00			293	222222255
18	397.8	9.154	9.110	26.813	35.667	44.132	34.632	34.631	0.63	38.66	2.63	37.00	0.00			395	222222255
17	496.4	8.335	8.283	26.910	35.802	44.301	34.591	34.593	0.84	45.21	2.69	37.60	0.00			493	222222255
16	597.2	7.311	7.253	27.037	35.976	44.520	34.560	34.555	0.74	55.48	2.87	39.60	0.00			592	222222255
15	698.6	6.552	6.488	27.125	36.100	44.678	34.539	34.538	0.86	64.64	2.96	41.00	0.00			693	222222255
14	797.6	5.698	5.628	27.230	36.247	44.863	34.533	34.545	1.09	75.11	2.97	41.80	0.00			791	222222255
13	997.3	4.647	4.566	27.368	36.437	45.103	34.551	34.549	1.28	93.34	3.04	42.60	0.00			989	222222255
12	1248.4	3.670	3.576	27.492	36.612	45.325	34.577	34.576	1.70	113.78	2.97	41.80	0.00			1237	222222255
11	1498.0	3.033	2.925	27.569	36.723	45.468	34.596	34.595	1.95	127.17	2.91	41.30	0.00			1484	222222255
10	2000.0	2.196	2.057	27.676	36.876	45.665	34.637	34.635	2.41	145.70	2.82	40.20	0.00			1979	222222255
9	2499.5	1.861	1.684	27.723	36.943	45.751	34.659	34.660	2.68	154.26	2.73	39.60	0.00			2470	222222255
8	3002.2	1.651	1.431	27.752	36.986	45.807	34.672	34.672	3.03	155.26	2.67	38.60	0.00			2964	222222255
7	3502.2	1.482	1.216	27.775	37.021	45.853	34.682	34.684	3.44	151.34	2.57	37.10	0.00			3453	222222255
6	4004.5	1.357	1.042	27.794	37.050	45.891	34.690	34.692	3.88	142.38	2.47	36.00	0.00			3944	222222255
5	4504.3	1.282	0.913	27.809	37.072	45.920	34.698	34.701	4.23	133.41	2.39	34.70	0.00			4432	222222255
4	5004.6	1.290	0.862	27.814	37.080	45.931	34.701	34.702	4.34	130.19	2.34	34.40	0.00			4918	222222255
3	5254.4	1.311	0.852	27.816	37.082	45.934	34.702	34.704	4.40	129.79	2.33	34.20	0.00			5161	222222255
2	5503.4	1.336	0.845	27.817	37.084	45.935	34.703	34.703	4.40	129.49	2.32	34.20	0.00			5403	222222255
1	5680.5	1.356	0.842	27.818	37.085	45.937	34.704	34.700	4.44	129.49	2.32	34.20	0.00			5574	222222255

CRUISE: MW 893 STA: 107 DATE (D/M/Y): 17- 3-89 TIME: 1710 LAT: 9 30.47 N LONG: 171 9.84 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24091E-04 1/S SOUND SPEED= 1502.4 M/S Depth= 4542 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP. IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.662	34.326	5.17	26.662	22.320	30.594	38.517	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.662	34.326	5.17	26.662	22.320	30.595	38.517	0.006	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.679	34.327	4.82	26.675	22.316	30.590	38.512	0.110	0.1	-0.02	-0.004	0.06	0.089	20.0
30	26.681	34.326	4.91	26.674	22.316	30.591	38.512	0.165	0.3	0.13	-0.006	-1.06	-0.376	30.0
40	26.683	34.326	4.89	26.674	22.316	30.590	38.512	0.221	0.5	-0.23	0.024	2.14	0.534	40.0
50	26.681	34.327	4.93	26.670	22.317	30.592	38.514	0.276	0.7	-0.41	0.038	3.69	0.702	50.0
100	22.691	34.889	4.62	22.671	23.946	32.319	40.333	0.530	2.6	-164.85	5.300	1194.85	12.620	100.0
125	18.378	34.765	3.56	18.356	25.005	33.509	41.647	0.615	3.6	-171.37	-9.497	826.43	10.496	124.9
150	14.813	34.557	2.87	14.791	25.677	34.306	42.560	0.681	4.5	-104.64	-5.875	422.93	7.508	149.8
200	11.078	34.481	1.37	11.054	26.362	35.136	43.526	0.781	6.3	-43.91	2.084	232.63	5.568	199.6
250	9.869	34.569	0.75	9.840	26.643	35.466	43.902	0.859	8.1	-13.87	1.338	81.43	3.295	249.3
300	9.447	34.621	0.69	9.413	26.755	35.596	44.048	0.928	10.0	-6.00	0.694	36.87	2.217	299.0
350	9.145	34.630	0.69	9.106	26.811	35.666	44.131	0.994	12.2	-6.73	-0.100	24.84	1.820	348.7
400	8.742	34.615	0.75	8.699	26.865	35.737	44.219	1.058	14.6	-8.22	-0.360	25.40	1.840	398.4
450	8.390	34.599	0.77	8.342	26.908	35.796	44.293	1.120	17.3	-7.72	-0.474	20.81	1.665	448.1
500	7.942	34.574	0.85	7.891	26.956	35.865	44.382	1.180	20.2	-7.86	-0.141	26.91	1.894	497.8
600	7.107	34.551	0.79	7.049	27.059	36.007	44.560	1.293	26.6	-7.58	-0.208	23.29	1.762	597.1
700	6.339	34.538	0.94	6.275	27.152	36.137	44.724	1.399	33.5	-7.80	-0.117	24.83	1.819	696.3
800	5.672	34.534	1.18	5.602	27.234	36.252	44.870	1.495	40.9	-6.27	0.008	21.21	1.681	795.5
900	5.147	34.540	1.29	5.072	27.303	36.346	44.989	1.586	48.8	-5.45	0.087	19.42	1.609	894.6
1000	4.700	34.550	1.36	4.619	27.361	36.428	45.091	1.670	56.9	-4.22	0.106	15.49	1.437	993.7
1200	3.874	34.572	1.61	3.783	27.468	36.577	45.280	1.823	74.1	-3.79	0.096	13.57	1.345	1191.7
1400	3.262	34.591	1.86	3.160	27.544	36.685	45.419	1.959	92.1	-2.77	0.081	10.00	1.155	1389.4
1600	2.807	34.605	2.09	2.693	27.597	36.763	45.520	2.083	110.9	-2.05	0.092	7.97	1.031	1587.0
1800	2.449	34.622	2.28	2.323	27.642	36.828	45.603	2.196	130.7	-1.71	0.083	6.82	0.953	1784.4
2000	2.172	34.638	2.43	2.033	27.679	36.880	45.670	2.302	151.2	-1.25	0.073	5.31	0.841	1981.6
2200	2.004	34.648	2.54	1.850	27.702	36.913	45.712	2.402	172.6	-0.95	0.056	4.09	0.738	2178.6
2400	1.892	34.656	2.66	1.722	27.718	36.936	45.742	2.499	195.2	-0.55	0.032	2.40	0.565	2375.4
2600	1.795	34.663	2.79	1.610	27.732	36.956	45.768	2.593	219.3	-0.52	0.031	2.32	0.556	2572.1
2800	1.705	34.669	2.93	1.503	27.745	36.975	45.792	2.686	244.7	-0.44	0.024	1.97	0.512	2768.6
3000	1.641	34.673	3.06	1.421	27.753	36.988	45.809	2.777	271.7	-0.42	0.022	1.91	0.505	2964.8
3200	1.581	34.677	3.20	1.343	27.762	37.001	45.827	2.867	300.1	-0.39	0.018	1.76	0.484	3160.9
3400	1.518	34.680	3.34	1.262	27.771	37.014	45.844	2.955	330.0	-0.39	0.019	1.82	0.493	3356.9
3600	1.464	34.684	3.51	1.188	27.779	37.027	45.860	3.043	361.3	-0.33	0.017	1.59	0.460	3552.6
3800	1.398	34.689	3.69	1.103	27.788	37.040	45.879	3.130	394.0	-0.47	0.022	2.27	0.550	3748.2
4000	1.332	34.693	3.93	1.018	27.797	37.054	45.897	3.214	427.7	-0.38	0.020	1.90	0.503	3943.6
4200	1.298	34.696	4.10	0.963	27.804	37.064	45.909	3.298	462.6	-0.24	0.013	1.23	0.404	4138.8
4400	1.274	34.699	4.23	0.917	27.809	37.072	45.919	3.381	499.0	-0.14	0.008	0.73	0.311	4333.9
4600	1.267	34.701	4.30	0.888	27.812	37.077	45.926	3.464	537.1	-0.17	0.009	0.73	0.000	4528.8
4603	1.267	34.701	4.31	0.888	27.812	37.077	45.926	3.465	537.7	-0.17	0.009	0.73	0.000	4531.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	26.671	26.670	22.316	30.591	38.513	34.325	34.322	4.98	1.21	0.14	0.00	0.00	1.672	0.874	6	222222222
23	45.9	26.639	26.629	22.336	30.612	38.535	34.334	34.325	4.95	1.21	0.15	0.00	0.00	1.713	0.891	45	222222222
22	96.3	22.407	22.388	24.040	32.421	40.442	34.907	34.905	4.64	1.71	0.28	0.18	0.02	1.892	0.955	95	222222222
21	146.0	15.773	15.750	25.524	34.118	42.339	34.634	34.624	3.43	9.16	1.00	12.30	0.00	1.638	0.804	145	222222222
20	195.2	11.475	11.450	26.267	35.025	43.400	34.452	34.441	1.92	25.17	1.98	26.40	0.00	0.725	0.348	194	222222222
19	246.2	10.016	9.988	26.593	35.411	43.842	34.537	34.534	0.99	35.04	2.43	33.40	0.00	0.196	0.105	244	222222222
18	298.0	9.504	9.471	26.738	35.577	44.027	34.612	34.608	0.76	37.86	2.55	36.00	0.00	0.066	0.040	296	222222222
17	345.6	9.146	9.108	26.809	35.663	44.128	34.627	34.626	0.73	39.57	2.59	36.90	0.00	0.036		343	222222225
16	398.4	8.831	8.788	26.855	35.723	44.201	34.620	34.618	0.77	41.48	2.64	37.50	0.00	0.027		395	222222225
15	497.0	7.899	7.849	26.960	35.871	44.389	34.571	34.569		49.64	2.76	38.10	0.00	0.023	0.018	493	225222222
14	599.1	7.199	7.141	27.047	35.991	44.540	34.553	34.554	0.77	57.59	2.91	40.40	0.00	0.012	-0.004	594	222222222
13	697.8	6.367	6.304	27.147	36.131	44.717	34.536	34.535	0.96	66.86	2.96	41.20	0.00	0.002	0.006	692	222222222
12	797.5	5.699	5.629	27.230	36.247	44.863	34.533	34.532	1.14	75.92	2.96	42.00	0.00	0.014	0.012	791	222222222
11	998.4	4.708	4.627	27.362	36.427	45.091	34.551	34.547	1.35	92.84	3.01	42.70	0.00		0.001	990	222222252
10	1247.4	3.733	3.639	27.484	36.600	45.311	34.574	34.574	1.67	113.07	2.98	42.40	0.00	0.011	0.007	1236	222222222
9	1499.1	3.068	2.959	27.563	36.715	45.459	34.592	34.591	1.97	128.18	2.93	41.60	0.00		-0.005	1485	222222252
8	1998.5	2.210	2.071	27.674	36.873	45.661	34.635	34.635	2.39	147.31	2.82	40.50	0.00	-0.008	-0.005	1977	222222222
7	2499.0	1.851	1.674	27.724	36.945	45.753	34.659	34.658	2.69	155.26	2.72	39.90	0.00	-0.010	-0.005	2470	222222222
6	3004.2	1.640	1.420	27.753	36.988	45.810	34.673	34.672	3.07	156.07	2.66	38.80	0.00	-0.003	-0.004	2966	222222222
5	3495.9	1.487	1.222	27.775	37.020	45.852	34.682	34.681	3.45	152.75	2.57	37.70	0.00	-0.005	0.000	3447	222222225
4	3752.6	1.422	1.132	27.785	37.035	45.872	34.687	34.688	3.67	149.02	2.52	37.00	0.00	0.003	-0.005	3698	222222222
3	4005.8	1.332	1.017	27.798	37.055	45.897	34.693	34.692	3.98	141.97	2.44	36.10	0.00	-0.010	-0.005	3945	222222222
2	4256.3	1.288	0.947	27.805	37.066	45.912	34.696	34.696	4.20	137.14	2.41	35.60	0.00	-0.005	-0.005	4190	222222222
1	4605.5	1.267	0.887	27.812	37.076	45.926	34.700	34.697	4.31	133.11	2.36	35.10	0.00	-0.002	0.001	4530	222222222

CRUISE: MW 893 STA: 108 DATE (D/M/Y): 18- 3-89 TIME: 0048 LAT: 9 29.76 N LONG: 170 20.08 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24061E-04 1/S SOUND SPEED= 1505.5 M/S Depth= 5033 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.877	34.321	4.94	26.877	22.247	30.517	38.434	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.877	34.321	4.94	26.876	22.248	30.517	38.434	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	26.719	34.335	4.73	26.715	22.310	30.583	38.504	0.111	0.1	-3.97	0.095	31.26	2.042	20.0
30	26.699	34.336	4.72	26.692	22.317	30.591	38.512	0.166	0.3	-1.03	-0.003	7.64	1.010	30.0
40	26.696	34.336	4.68	26.687	22.319	30.593	38.514	0.221	0.5	-0.31	-0.015	2.06	0.524	40.0
50	26.694	34.335	4.72	26.683	22.320	30.594	38.516	0.277	0.7	-0.30	0.020	2.56	0.584	50.0
100	22.595	34.878	4.47	22.575	23.965	32.341	40.358	0.530	2.6	-157.25	5.689	1149.44	12.386	100.0
125	18.698	34.803	3.57	18.676	24.954	33.447	41.575	0.616	3.6	-167.29	-10.001	793.93	10.294	124.9
150	14.949	34.553	2.84	14.926	25.644	34.269	42.518	0.683	4.5	-101.47	-5.905	411.65	7.412	149.8
200	11.789	34.535	1.15	11.763	26.273	35.018	43.380	0.785	6.3	-33.11	2.513	193.81	5.086	199.6
250	9.896	34.564	0.78	9.867	26.635	35.457	43.892	0.865	8.2	-23.88	1.860	133.35	4.219	249.3
300	9.430	34.635	0.66	9.396	26.769	35.610	44.063	0.934	10.1	-8.93	0.107	37.76	2.245	299.0
350	8.961	34.623	0.72	8.923	26.836	35.698	44.171	0.999	12.3	-7.62	-0.268	25.04	1.828	348.8
400	8.609	34.604	0.80	8.567	26.877	35.756	44.243	1.062	14.7	-8.87	-0.402	26.84	1.893	398.4
450	8.150	34.592	0.63	8.103	26.938	35.838	44.345	1.123	17.3	-8.88	-0.359	26.93	1.896	448.1
500	7.774	34.578	0.63	7.723	26.983	35.900	44.424	1.182	20.1	-8.88	-0.373	25.96	1.861	497.8
600	6.867	34.544	0.91	6.810	27.086	36.045	44.609	1.293	26.4	-8.30	-0.058	28.07	1.935	597.1
700	6.096	34.543	0.80	6.034	27.187	36.184	44.782	1.394	33.1	-6.65	-0.042	21.66	1.700	696.3
800	5.476	34.539	1.05	5.408	27.262	36.289	44.916	1.487	40.2	-5.63	-0.005	18.22	1.559	795.5
900	4.951	34.542	1.34	4.877	27.327	36.380	45.032	1.575	47.8	-4.38	0.099	15.85	1.454	894.6
1000	4.556	34.552	1.39	4.476	27.380	36.453	45.123	1.656	55.7	-3.69	0.078	13.10	1.322	993.7
1200	3.754	34.572	1.66	3.664	27.480	36.595	45.304	1.807	72.6	-4.08	0.114	14.64	1.398	1191.6
1400	3.114	34.593	1.89	3.013	27.559	36.708	45.449	1.939	90.1	-2.66	0.088	9.71	1.139	1389.4
1600	2.705	34.609	2.13	2.593	27.610	36.781	45.543	2.059	108.4	-1.86	0.084	7.20	0.981	1587.0
1800	2.395	34.624	2.31	2.270	27.649	36.837	45.616	2.171	127.7	-1.49	0.083	6.11	0.903	1784.4
2000	2.148	34.639	2.45	2.009	27.682	36.884	45.676	2.275	147.9	-1.03	0.060	4.32	0.759	1981.6
2200	2.020	34.647	2.55	1.866	27.700	36.910	45.708	2.375	169.3	-0.81	0.049	3.47	0.680	2178.6
2400	1.886	34.657	2.67	1.716	27.719	36.937	45.743	2.471	191.9	-0.61	0.037	2.69	0.599	2375.4
2600	1.797	34.663	2.78	1.611	27.732	36.956	45.767	2.566	216.0	-0.49	0.024	2.10	0.529	2572.1
2800	1.727	34.668	2.90	1.524	27.742	36.971	45.787	2.658	241.6	-0.40	0.020	1.76	0.485	2768.5
3000	1.644	34.673	3.05	1.424	27.753	36.988	45.809	2.750	268.7	-0.52	0.026	2.33	0.558	2964.8
3200	1.589	34.676	3.19	1.351	27.761	37.000	45.825	2.840	297.2	-0.37	0.018	1.67	0.472	3160.9
3400	1.532	34.681	3.35	1.275	27.770	37.013	45.842	2.930	327.2	-0.40	0.016	1.77	0.486	3356.8
3600	1.472	34.684	3.50	1.196	27.778	37.025	45.858	3.018	358.6	-0.36	0.016	1.66	0.471	3552.6
3800	1.417	34.688	3.67	1.122	27.786	37.038	45.875	3.105	391.5	-0.36	0.019	1.78	0.488	3748.2
4000	1.377	34.691	3.83	1.062	27.793	37.047	45.888	3.191	425.6	-0.29	0.016	1.47	0.443	3943.6
4200	1.337	34.694	4.00	1.001	27.800	37.058	45.901	3.276	461.3	-0.28	0.014	1.43	0.437	4138.8
4400	1.300	34.697	4.17	0.943	27.806	37.067	45.914	3.360	498.3	-0.20	0.012	1.08	0.380	4333.9
4600	1.294	34.699	4.27	0.914	27.809	37.072	45.920	3.444	536.9	-0.13	0.007	0.70	0.305	4528.8
4800	1.301	34.700	4.33	0.897	27.811	37.075	45.924	3.529	577.6	-0.06	0.004	0.34	0.213	4723.5
5000	1.318	34.701	4.36	0.890	27.812	37.076	45.926	3.615	620.7	-0.05	0.001	0.27	0.189	4918.0
5103	1.321	34.665	4.37	0.880	27.784	37.050	45.900	3.660	643.8	-0.11	-0.042	0.27	0.000	5018.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	14.1	26.712	26.708	22.311	30.585	38.506	34.334	34.336	5.12	1.31	0.15	0.00	0.00			14	222222255
23	44.3	26.691	26.681	22.319	30.594	38.515	34.334	34.336	5.14	1.31	0.16	0.00	0.00			44	222222255
22	71.2	25.493	25.477	22.887	31.188	39.135	34.589	34.528	4.88	1.31	0.17	0.00	0.00			70	222222255
21	96.5	21.071	21.053	24.393	32.813	40.871	34.884	34.887	4.48	2.62	0.32	0.90	0.00			95	222222255
20	121.5	17.566	17.545	25.176	33.708	41.870	34.729	34.724	3.68	6.34	0.75	8.32	0.08			120	222222255
19	145.2	14.275	14.254	25.807	34.455	42.728	34.576	34.522	3.05	13.79	1.26	16.30	0.00			144	222222255
18	170.5	12.224	12.201	26.124	34.853	43.200	34.450	34.444	2.29	21.35	1.75	23.30	0.00			169	222222255
17	195.1	11.239	11.215	26.371	35.138	43.521	34.530	34.528	1.26	28.70	2.25	30.20	0.00			193	222222255
16	245.8	9.914	9.886	26.628	35.450	43.884	34.560	34.568	0.88	35.95	2.47	34.20	0.00			244	222222255
15	295.8	9.502	9.469	26.754	35.592	44.043	34.632	34.632	0.71	37.66	2.56	36.40	0.00			293	222222255
14	395.9	8.735	8.693	26.862	35.734	44.217	34.610	34.614	0.73	42.59	2.67	37.80	0.00			393	222222255
13	497.5	7.785	7.735	26.979	35.896	44.419	34.575	34.576	0.63	52.26	2.86	39.50	0.00			494	222222255
12	622.4	6.696	6.638	27.110	36.077	44.648	34.545	34.542	0.78	63.54	2.97	41.20	0.00			617	222222255
11	747.8	5.808	5.742	27.216	36.227	44.838	34.532	34.540	0.91	75.01	3.05	42.70	0.00			742	222222255
10	869.8	5.068	4.996	27.309	36.357	45.003	34.537	34.539	1.32	86.29	2.99	42.60	0.00			863	222222255
9	991.2	4.649	4.569	27.368	36.437	45.102	34.550	34.555	1.35	94.45	3.03	42.90	0.00			983	222222255
8	1213.1	3.764	3.672	27.476	36.591	45.299	34.568	34.570	1.64	113.07	2.95	42.40	0.00			1202	222222255
7	1999.8	2.140	2.002	27.679	36.882	45.674	34.635	34.641	2.46	149.12	2.81	40.70	0.00			1979	222222255
6	2499.2	1.848	1.671	27.722	36.943	45.751	34.656	34.658	2.72	155.06	2.73	39.90	0.00			2470	222222255
5	3000.9	1.649	1.429	27.749	36.983	45.805	34.668	34.674	3.05	156.47	2.66	39.00	0.00			2962	222222255
4	3754.1	1.439	1.148	27.776	37.026	45.862	34.678	34.686	3.62	148.92	2.55	37.30	0.00			3700	222222255
3	4501.1	1.299	0.930	27.804	37.066	45.913	34.694	34.703	4.25	135.83	2.37	35.50	0.00			4428	222222255
2	5106.4	1.326	0.885	27.806	37.070	45.920	34.692	34.700	4.32	132.41	2.37	35.10	0.00			5017	222222255
1	5106.5	1.325	0.884	27.806	37.071	45.921	34.693		4.32	132.40	2.37	35.10	0.00			5017	252222255

CRUISE: MW 893 STA: 109 DATE (D/M/Y): 18- 3-89 TIME: 0854 LAT: 9 29.71 N LONG: 169 30.23 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24059E-04 1/S SOUND SPEED= 1502.4 M/S Depth= 4572 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.758	34.344	4.85	26.758	22.302	30.575	38.494	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.758	34.344	4.85	26.758	22.302	30.575	38.495	0.006	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.782	34.376	4.95	26.777	22.321	30.592	38.511	0.110	0.1	-0.40	-0.095	1.33	0.421	20.0
30	26.778	34.375	4.91	26.771	22.322	30.593	38.512	0.165	0.3	-0.53	-0.066	2.81	0.612	30.0
40	26.735	34.371	4.97	26.726	22.333	30.606	38.526	0.221	0.5	-5.86	-0.376	37.07	2.224	40.0
50	26.715	34.369	4.94	26.703	22.339	30.612	38.533	0.276	0.7	-0.31	0.002	2.34	0.558	50.0
100	22.735	34.873	4.73	22.715	23.920	32.293	40.306	0.533	2.6	-153.67	8.436	1192.02	12.614	100.0
125	19.027	34.824	3.64	19.005	24.886	33.369	41.486	0.622	3.7	-202.34	-9.080	1077.17	11.990	124.9
150	14.310	34.489	3.01	14.288	25.732	34.380	42.652	0.689	4.6	-144.88	-7.826	620.67	9.102	149.8
200	10.817	34.543	0.88	10.793	26.457	35.241	43.640	0.784	6.3	-26.52	3.912	187.20	4.999	199.6
250	10.028	34.592	0.73	9.999	26.634	35.450	43.880	0.861	8.0	-18.22	-0.249	70.92	3.077	249.3
300	9.480	34.621	0.66	9.446	26.749	35.589	44.040	0.931	10.0	-8.20	0.856	48.69	2.549	299.0
350	9.153	34.644	0.54	9.114	26.822	35.675	44.140	0.996	12.2	-9.15	-0.198	32.51	2.083	348.7
400	8.627	34.618	0.59	8.584	26.885	35.762	44.249	1.060	14.6	-7.38	-0.275	23.49	1.771	398.4
450	8.240	34.595	0.71	8.194	26.927	35.822	44.325	1.121	17.2	-10.09	-0.552	28.05	1.935	448.1
500	7.766	34.567	0.92	7.716	26.976	35.893	44.417	1.180	20.1	-7.29	-0.445	18.73	1.581	497.8
600	7.044	34.549	0.83	6.986	27.066	36.017	44.573	1.292	26.4	-7.04	-0.035	24.16	1.796	597.1
700	6.243	34.541	0.83	6.180	27.167	36.156	44.748	1.396	33.2	-8.19	-0.082	26.66	1.886	696.3
800	5.507	34.540	0.99	5.438	27.259	36.285	44.910	1.490	40.5	-6.87	0.051	23.77	1.781	795.5
900	4.986	34.545	1.13	4.911	27.325	36.376	45.026	1.578	48.1	-5.08	0.058	17.40	1.524	894.6
1000	4.492	34.556	1.33	4.412	27.389	36.466	45.139	1.660	56.0	-4.24	0.130	15.71	1.448	993.7
1200	3.751	34.577	1.61	3.660	27.484	36.599	45.308	1.808	72.7	-3.59	0.101	12.87	1.311	1191.6
1400	3.145	34.595	1.86	3.044	27.558	36.705	45.445	1.941	90.1	-2.52	0.095	9.37	1.118	1389.4
1600	2.723	34.612	2.07	2.610	27.610	36.780	45.541	2.061	108.5	-1.77	0.086	6.97	0.965	1587.0
1800	2.419	34.626	2.24	2.294	27.649	36.836	45.613	2.172	127.8	-1.48	0.077	5.98	0.893	1784.4
2000	2.215	34.639	2.37	2.075	27.677	36.875	45.663	2.277	148.1	-0.94	0.057	3.99	0.730	1981.6
2200	2.042	34.650	2.51	1.887	27.700	36.909	45.707	2.378	169.7	-0.75	0.043	3.22	0.656	2178.6
2400	1.930	34.658	2.63	1.760	27.716	36.932	45.736	2.475	192.6	-0.70	0.039	3.04	0.637	2375.4
2600	1.839	34.663	2.74	1.652	27.729	36.950	45.760	2.571	216.9	-0.44	0.021	1.89	0.502	2572.1
2800	1.778	34.667	2.83	1.574	27.737	36.964	45.777	2.665	242.9	-0.36	0.016	1.55	0.455	2768.5
3000	1.716	34.670	2.94	1.494	27.746	36.977	45.794	2.758	270.5	-0.44	0.019	1.91	0.505	2964.8
3200	1.647	34.674	3.09	1.407	27.755	36.991	45.813	2.851	299.7	-0.45	0.022	2.07	0.526	3160.9
3400	1.584	34.678	3.23	1.326	27.765	37.004	45.831	2.942	330.4	-0.39	0.018	1.78	0.488	3356.9
3600	1.521	34.682	3.39	1.244	27.773	37.018	45.848	3.032	362.4	-0.33	0.015	1.55	0.455	3552.6
3800	1.470	34.686	3.54	1.173	27.782	37.030	45.864	3.121	396.0	-0.43	0.024	2.13	0.534	3748.2
4000	1.425	34.689	3.70	1.109	27.788	37.040	45.878	3.208	430.9	-0.39	0.017	1.89	0.502	3943.6
4200	1.373	34.693	3.88	1.036	27.796	37.052	45.894	3.295	467.1	-0.41	0.021	2.09	0.528	4138.8
4400	1.322	34.697	4.07	0.963	27.804	37.064	45.910	3.380	504.6	-0.36	0.020	1.89	0.502	4333.9
4600	1.295	34.699	4.21	0.915	27.809	37.072	45.920	3.465	543.3	-0.16	0.011	1.89	0.000	4528.8
4607	1.296	34.700	4.23	0.915	27.810	37.072	45.920	3.468	544.7	-0.16	0.010	1.89	0.000	4535.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.0	26.767	26.765	22.328	30.600	38.519	34.380	34.376	4.99	0.91	0.17	0.00	0.00			7	222222255
23	46.4	26.695	26.685	22.346	30.620	38.541	34.371	34.368	4.98	0.91	0.21	0.00	0.00			46	222222255
22	97.9	21.469	21.450	24.259	32.667	40.714	34.851	34.885	4.56	2.11	0.31	0.20	0.00			97	222222255
21	146.6	15.743	15.720	25.508	34.103	42.326	34.605	34.621	3.44	8.76	0.97	11.60	0.00			145	222222255
20	197.8	11.049	11.025	26.383	35.158	43.549	34.501		1.31	28.90	2.22	29.50	0.00			196	252222255
19	247.0	10.026	9.997	26.632	35.449	43.879	34.590		0.75	35.14	2.49	34.00	0.00			245	252222255
18	296.9	9.438	9.405	26.756	35.597	44.050	34.621	34.624	0.69	38.06	2.56	36.20	0.00			295	222222255
17	348.2	9.185	9.147	26.812	35.664	44.127	34.639	34.653	0.51	39.27	2.67	37.00	0.00			345	222222255
16	397.6	8.689	8.647	26.875	35.750	44.234	34.618	34.625	0.57	43.30	2.76	38.10	0.00			394	222222255
15	497.8	7.778	7.728	26.974	35.891	44.414	34.567	34.579	0.89	50.65	2.77	38.60	0.00			494	222222255
14	596.4	6.870	6.814	27.083	36.043	44.606	34.541	34.542	0.90	60.62	2.88	40.30	0.00			592	222222255
13	797.0	5.438	5.370	27.271	36.300	44.928	34.545	34.538	0.95	80.05	3.06	43.00	0.00			790	222222255
12	997.9	4.565	4.485	27.372	36.446	45.116	34.545	34.551	1.24	94.75	3.03	43.00	0.00			989	222222255
11	1247.9	3.700	3.606	27.490	36.608	45.320	34.577	34.575	1.59	113.58	3.00	42.50	0.00			1237	222222255
10	1499.0	3.044	2.936	27.572	36.725	45.470	34.600	34.598	1.85	127.67	2.97	41.80	0.00			1485	222222255
9	2000.6	2.248	2.108	27.672	36.870	45.656	34.637	34.639	2.33	146.20	2.85	40.70	0.00			1979	222222255
8	2549.6	1.861	1.679	27.726	36.947	45.755	34.663	34.662	2.70	154.16	2.77	39.60	0.00			2519	222222255
7	3001.9	1.698	1.477	27.748	36.979	45.798	34.671			155.67	2.70	39.10	0.00			2963	255222255
6	3253.3	1.612	1.368	27.760	36.998	45.822	34.677	34.678	3.13	154.96	2.64	38.20	0.00			3210	222222255
5	3504.0	1.533	1.266	27.771	37.014	45.844	34.681	34.682	3.36	153.25	2.58	37.80	0.00			3455	222222255
4	3754.6	1.488	1.196	27.778	37.025	45.859	34.684	34.684	3.48	151.94	2.55	37.40	0.00			3700	222222255
3	4005.9	1.410	1.093	27.789	37.042	45.880	34.689	34.693	3.74	146.00	2.50	36.60	0.00			3946	222222255
2	4254.7	1.351	1.008	27.800	37.057	45.900	34.695	34.693	3.95	142.17	2.46	36.00	0.00			4188	222222255
1	4610.8	1.295	0.914	27.808	37.071	45.919	34.698		4.25	134.42	2.40	35.00	0.00			4535	252222255

CRUISE: MW 893 STA: 110 DATE (D/M/Y): 18- 3-89 TIME: 1650 LAT: 9 29.68 N LONG: 168 40.27 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24057E-04 1/S SOUND SPEED= 1506.7 M/S Depth= 5213 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.881	34.388	4.95	26.881	22.297	30.566	38.483	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.881	34.388	4.95	26.880	22.297	30.566	38.483	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	26.887	34.389	4.78	26.882	22.297	30.566	38.483	0.111	0.1	0.32	0.002	-2.33	-0.558	20.0
30	26.892	34.391	4.81	26.885	22.298	30.567	38.483	0.166	0.3	2.10	1.479	10.48	1.183	30.0
40	26.958	34.436	4.89	26.949	22.311	30.578	38.492	0.221	0.5	17.72	12.880	95.25	3.566	40.0
50	27.059	34.519	4.76	27.047	22.343	30.606	38.518	0.277	0.7	-3.71	2.038	64.03	2.923	50.0
100	21.856	34.869	4.49	21.836	24.166	32.563	40.600	0.517	2.5	-130.82	0.594	863.75	10.737	99.9
125	18.657	34.789	3.64	18.635	24.954	33.449	41.577	0.601	3.5	-82.07	-2.364	439.14	7.656	124.9
150	15.220	34.558	2.96	15.197	25.588	34.203	42.443	0.670	4.4	-137.49	-9.394	572.73	8.743	149.8
200	11.125	34.488	1.24	11.101	26.359	35.131	43.519	0.770	6.2	-29.45	3.166	188.07	5.010	199.6
250	10.086	34.618	0.65	10.057	26.645	35.458	43.885	0.849	8.0	-19.35	0.563	90.86	3.482	249.3
300	9.451	34.638	0.63	9.417	26.767	35.608	44.060	0.918	9.9	-9.93	0.121	42.22	2.374	299.9
350	9.208	34.644	0.55	9.170	26.812	35.664	44.126	0.984	12.1	-3.20	0.032	13.32	1.333	348.7
400	8.908	34.626	0.64	8.864	26.847	35.712	44.187	1.048	14.6	-9.83	-0.565	28.17	1.939	398.4
450	8.457	34.604	0.65	8.410	26.901	35.787	44.281	1.110	17.3	-6.25	0.011	24.19	1.797	448.1
500	7.989	34.588	0.49	7.858	26.972	35.882	44.400	1.170	20.2	-10.22	-0.468	29.59	1.987	497.8
600	6.698	34.549	0.62	6.642	27.112	36.080	44.651	1.281	26.4	-9.74	-0.152	31.57	2.053	597.1
700	6.019	34.543	0.67	5.957	27.198	36.198	44.799	1.381	33.0	-7.11	-0.045	23.07	1.755	696.3
800	5.332	34.543	0.98	5.264	27.282	36.317	44.950	1.473	40.0	-6.00	0.043	20.40	1.650	795.5
900	4.854	34.552	1.10	4.780	27.346	36.404	45.060	1.558	47.4	-4.62	0.102	16.62	1.489	894.6
1000	4.465	34.560	1.22	4.385	27.396	36.474	45.148	1.638	55.2	-3.44	0.079	12.23	1.278	993.6
1200	3.776	34.580	1.42	3.685	27.484	36.598	45.306	1.786	71.7	-3.07	0.082	10.96	1.209	1191.6
1400	3.233	34.595	1.78	3.131	27.550	36.693	45.428	1.919	89.4	-2.46	0.050	8.41	1.060	1389.4
1600	2.868	34.603	2.03	2.753	27.590	36.753	45.507	2.043	108.2	-1.67	0.070	6.34	0.920	1587.0
1800	2.510	34.622	2.20	2.383	27.637	36.820	45.592	2.157	128.1	-1.57	0.087	6.45	0.928	1784.4
2000	2.245	34.637	2.35	2.104	27.673	36.870	45.656	2.264	148.8	-1.11	0.060	4.60	0.784	1981.6
2200	2.046	34.648	2.52	1.892	27.698	36.907	45.704	2.366	170.6	-0.95	0.057	4.10	0.740	2178.6
2400	1.922	34.657	2.63	1.752	27.716	36.932	45.737	2.464	193.5	-0.47	0.026	2.03	0.521	2375.4
2600	1.858	34.661	2.72	1.671	27.726	36.947	45.755	2.560	217.9	-0.46	0.025	2.02	0.519	2572.1
2800	1.791	34.665	2.82	1.587	27.735	36.961	45.774	2.655	244.1	-0.54	0.025	2.35	0.560	2768.5
3000	1.701	34.671	2.97	1.480	27.748	36.979	45.798	2.748	271.7	-0.46	0.020	2.01	0.518	2964.8
3200	1.627	34.675	3.13	1.388	27.758	36.994	45.817	2.839	300.7	-0.47	0.023	2.15	0.536	3160.9
3400	1.557	34.679	3.29	1.299	27.767	37.009	45.836	2.930	331.0	-0.37	0.016	1.69	0.475	3356.8
3600	1.510	34.683	3.43	1.233	27.775	37.020	45.851	3.019	362.9	-0.35	0.015	1.62	0.466	3552.6
3800	1.450	34.687	3.61	1.154	27.783	37.033	45.868	3.107	396.2	-0.44	0.021	2.12	0.532	3748.2
4000	1.390	34.691	3.81	1.074	27.792	37.046	45.885	3.194	430.6	-0.20	0.010	0.99	0.363	3943.6
4200	1.363	34.693	3.92	1.026	27.797	37.053	45.896	3.280	466.6	-0.33	0.018	1.72	0.479	4138.8
4400	1.335	34.696	4.06	0.977	27.803	37.062	45.907	3.365	504.0	-0.21	0.013	1.15	0.391	4333.9
4600	1.307	34.699	4.22	0.926	27.808	37.070	45.918	3.450	543.1	-0.20	0.011	1.09	0.381	4528.8
4800	1.308	34.701	4.30	0.904	27.811	37.074	45.923	3.535	584.0	-0.12	0.008	0.70	0.305	4723.5
5000	1.311	34.702	4.38	0.883	27.814	37.078	45.928	3.621	626.9	-0.05	0.004	0.29	0.196	4918.0
5200	1.331	34.702	4.41	0.877	27.814	37.079	45.929	3.708	672.2	0.00	0.002	0.29	0.000	5112.4
5255	1.337	34.703	4.38	0.877	27.814	37.079	45.929	3.733	685.1	0.00	0.002	0.29	0.000	5165.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	5.1	26.966	26.965	22.313	30.579	38.493	34.445	34.445	4.91	1.41	0.17	0.00	0.00	1.695	0.911	5	222222222
23	46.4	27.038	27.027	22.354	30.618	38.529	34.526	34.522	4.90	1.71	0.19	0.10	0.00	1.716	0.952	46	222222222
22	97.9	20.993	20.975	24.346	32.769	40.830	34.794	34.857	4.49	2.62	0.34	0.96	0.04	1.857	0.981	97	222222222
21	146.6	14.194	14.172	25.777	34.430	42.705	34.516	34.521	3.19	12.28	1.19	15.17	0.03	1.555	0.755	145	222222222
20	197.0	10.966	10.942	26.378	35.157	43.551	34.475		1.39	29.20	2.22	29.60	0.00	0.476	0.251	195	252222222
19	246.9	9.976	9.948	26.670	35.488	43.920	34.627		0.70	35.34	2.51	35.10	0.00	0.103	0.053	245	252222222
18	296.8	9.410	9.377	26.778	35.621	44.074	34.644	34.632	0.72	37.86	2.59	36.60	0.00		0.017	294	222222252
17	350.0	9.169	9.130	26.817	35.670	44.134	34.642	34.640	0.61	39.37	2.63	37.30	0.00	0.035		347	222222225
16	397.3	8.875	8.832	26.863	35.729	44.205	34.640	34.625	0.68	41.28	2.67	37.70	0.00	0.025		394	222222225
15	497.3	7.941	7.891	26.972	35.881	44.397	34.595	34.589	0.53	50.55	2.90	39.40	0.00	0.009	0.007	493	222222222
14	597.9	6.946	6.889	27.083	36.039	44.599	34.555	34.554	0.64	60.72	3.00	41.30	0.00	0.014	-0.004	593	222222222
13	798.4	5.560	5.491	27.251	36.274	44.897	34.537	34.540	0.84	79.24	3.13	43.80	0.00	0.000	-0.005	792	222222252
12	998.8	4.567	4.487	27.387	36.460	45.129	34.563	34.557	1.18	95.76	3.13	43.80	0.00	0.017	0.006	990	222222222
11	1247.0	3.688	3.594	27.494	36.613	45.325	34.581	34.579	1.49	115.29	3.09	43.50	0.00			1236	222222255
10	1502.7	3.037	2.928	27.571	36.724	45.469	34.598	34.595	1.97	128.28	2.93	41.90	0.00			1488	222222255
9	2001.6	2.264	2.124	27.671	36.867	45.652	34.637	34.635	2.36	146.60	2.87	41.00	0.00			1980	222222255
8	2501.6	1.904	1.725	27.719	36.937	45.743	34.658	34.656	2.69	154.56	2.77	40.10	0.00			2472	222222255
7	3000.6	1.713	1.492	27.747	36.978	45.796	34.672	34.669		156.07	2.70	39.10	0.00			2962	225222255
6	3507.4	1.540	1.272	27.770	37.013	45.842	34.681	34.681		153.15	2.61	38.20	0.00			3458	225222255
5	4006.0	1.392	1.076	27.791	37.045	45.884	34.690	34.689	3.81	145.30	2.50	36.90	0.00			3946	222222255
4	4508.6	1.323	0.953	27.804	37.065	45.911	34.696	34.697	4.16	137.64	2.43	35.90	0.00			4436	222222255
3	5022.2	1.313	0.882	27.812	37.077	45.927	34.701	34.700	4.41	132.61	2.37	35.30	0.00	0.002	0.001	4935	222222222
2	5259.6	1.338	0.878	27.813	37.078	45.928	34.701	34.702	4.34	132.11	2.39	35.20	0.00	-0.004	-0.005	5166	222222222
1	5258.2	1.338	0.878	27.814	37.079	45.929	34.702		4.40	132.11	2.39	35.30	0.00			5165	252222255

CRUISE: MW 893 STA: 111 DATE (D/M/Y): 19- 3-89 TIME: 0111 LAT: 9 29.70 N LONG: 167 50.24 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24058E-04 1/S SOUND SPEED= 1506.6 M/S Depth= 5127 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.301	34.504	4.44	27.301	22.250	30.508	38.414	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.301	34.504	4.44	27.300	22.251	30.508	38.414	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.096	34.499	4.67	27.092	22.314	30.576	38.487	0.111	0.1	-1.80	0.129	15.81	1.453	20.0
30	27.089	34.501	4.65	27.082	22.318	30.581	38.491	0.166	0.3	-0.76	0.071	6.95	0.963	30.0
40	27.084	34.501	4.66	27.075	22.320	30.583	38.494	0.221	0.5	-0.34	0.118	4.62	0.786	40.0
50	27.083	34.503	4.65	27.071	22.323	30.585	38.496	0.277	0.7	-0.06	0.307	5.94	0.890	50.0
100	22.913	34.806	4.37	22.892	23.819	32.187	40.196	0.537	2.7	-223.35	6.352	1582.07	14.532	100.0
125	16.817	34.632	2.73	16.796	25.281	33.839	42.026	0.619	3.6	-205.46	-9.113	999.42	11.550	124.9
150	12.735	34.545	1.11	12.715	26.098	34.805	43.132	0.675	4.4	-66.33	1.616	369.76	7.025	149.8
200	11.177	34.657	0.46	11.152	26.481	35.249	43.633	0.764	6.0	-24.13	2.045	143.92	4.383	199.6
250	10.486	34.698	0.47	10.456	26.637	35.433	43.843	0.839	7.7	-12.26	-0.168	48.86	2.554	249.3
300	9.934	34.690	0.48	9.900	26.727	35.547	43.979	0.909	9.7	-9.24	-0.300	32.71	2.090	299.0
350	9.487	34.674	0.36	9.448	26.791	35.630	44.080	0.977	11.9	-9.72	-0.429	31.50	2.050	348.7
400	9.032	34.649	0.38	8.988	26.846	35.705	44.174	1.042	14.4	-10.06	-0.665	27.68	1.922	398.4
450	8.588	34.616	0.48	8.540	26.890	35.769	44.258	1.105	17.1	-6.63	-0.401	18.42	1.568	448.1
500	8.243	34.605	0.40	8.191	26.935	35.830	44.334	1.166	20.1	-12.42	-0.575	36.71	2.214	497.8
600	7.149	34.556	0.62	7.091	27.056	36.003	44.554	1.281	26.5	-9.21	-0.251	28.65	1.955	597.1
700	6.412	34.548	0.55	6.348	27.151	36.132	44.716	1.386	33.5	-6.90	-0.014	23.54	1.773	696.3
800	5.712	34.546	0.70	5.642	27.239	36.255	44.871	1.483	40.9	-7.05	-0.004	23.39	1.767	795.5
900	5.140	34.547	0.93	5.065	27.309	36.353	44.995	1.572	48.6	-4.31	0.074	15.18	1.424	894.6
1000	4.647	34.556	1.17	4.567	27.373	36.441	45.107	1.656	56.7	-4.89	0.085	17.20	1.515	993.7
1200	3.852	34.577	1.40	3.761	27.474	36.584	45.288	1.808	73.7	-3.42	0.090	12.26	1.279	1191.6
1400	3.266	34.595	1.70	3.164	27.547	36.688	45.421	1.943	91.6	-2.51	0.079	9.15	1.105	1389.4
1600	2.809	34.611	2.00	2.695	27.602	36.767	45.524	2.066	110.4	-2.14	0.075	7.97	1.031	1587.0
1800	2.487	34.623	2.19	2.360	27.640	36.824	45.597	2.179	130.1	-1.41	0.059	5.44	0.852	1784.4
2000	2.247	34.635	2.34	2.107	27.671	36.868	45.654	2.286	150.8	-1.06	0.055	4.37	0.763	1981.6
2200	2.084	34.645	2.48	1.929	27.693	36.899	45.695	2.389	172.7	-0.82	0.048	3.52	0.685	2178.6
2400	1.962	34.653	2.59	1.791	27.710	36.924	45.727	2.488	195.9	-0.65	0.039	2.85	0.617	2375.4
2600	1.865	34.660	2.70	1.678	27.724	36.944	45.753	2.584	220.6	-0.54	0.029	2.37	0.562	2572.1
2800	1.779	34.666	2.82	1.576	27.736	36.962	45.776	2.679	246.7	-0.54	0.031	2.45	0.572	2768.5
3000	1.711	34.670	2.94	1.489	27.746	36.977	45.795	2.772	274.3	-0.48	0.023	2.15	0.535	2964.8
3200	1.632	34.675	3.11	1.392	27.757	36.993	45.816	2.864	303.4	-0.46	0.016	1.97	0.513	3160.9
3400	1.576	34.678	3.24	1.318	27.765	37.005	45.832	2.955	333.9	-0.30	0.017	1.43	0.437	3356.9
3600	1.525	34.681	3.37	1.248	27.772	37.016	45.847	3.045	366.0	-0.40	0.019	1.90	0.504	3552.6
3800	1.475	34.685	3.53	1.179	27.780	37.028	45.862	3.134	399.6	-0.40	0.019	1.91	0.505	3748.2
4000	1.420	34.688	3.70	1.103	27.788	37.040	45.878	3.222	434.5	-0.29	0.012	1.39	0.431	3943.6
4200	1.363	34.693	3.90	1.026	27.797	37.053	45.895	3.309	470.9	-0.53	0.028	2.74	0.605	4138.8
4400	1.325	34.696	4.09	0.966	27.803	37.063	45.908	3.394	508.3	-0.21	0.012	1.09	0.382	4333.9
4600	1.299	34.698	4.22	0.918	27.808	37.071	45.919	3.479	547.3	-0.24	0.014	1.32	0.420	4528.8
4800	1.301	34.700	4.31	0.898	27.811	37.075	45.923	3.564	588.0	-0.08	0.005	0.45	0.245	4723.5
5000	1.314	34.700	4.36	0.886	27.812	37.077	45.926	3.650	631.0	-0.03	0.002	0.17	0.151	4918.1
5200	1.333	34.701	4.35	0.880	27.813	37.078	45.928	3.737	676.5	-0.03	0.002	0.17	0.000	5112.4
5217	1.335	34.701	4.36	0.880	27.813	37.078	45.928	3.745	680.4	-0.03	0.002	0.17	0.000	5129.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.8	27.204	27.202	22.293	30.552	38.460	34.519	34.516	5.23	1.51	0.21	0.00	0.00			6	222222255
23	45.5	27.038	27.027	22.344	30.608	38.520	34.513	34.514	4.91	1.51	0.22	0.00	0.00			45	222222255
22	96.2	21.119	21.101	24.416	32.834	40.890	34.932	34.830	4.49	3.32	0.39	1.53	0.07			95	222222255
21	144.9	13.608	13.587	25.810	34.486	42.784	34.401	34.552	2.38	16.01	1.55	19.87	0.03			144	222222255
20	197.4	11.126	11.101	26.498	35.268	43.653	34.667	34.654	0.61	30.61	2.48	33.70	0.00			196	222222255
19	246.6	10.493	10.464	26.636	35.432	43.841	34.698	34.694	0.49	32.62	2.54	35.40	0.00			245	222222255
18	296.5	9.970	9.936	26.728	35.545	43.976	34.698	34.687	0.52	34.44	2.57	36.40	0.00			294	222222255
17	347.5	9.516	9.477	26.768	35.606	44.055	34.651	34.677	0.47	37.05	2.66	37.40	0.00			345	222222255
16	397.5	8.925	8.882	26.845	35.709	44.183	34.626	34.640	0.44	41.58	2.78	38.10	0.00			394	222222255
15	495.8	8.072	8.021	26.947	35.850	44.360	34.587	34.597	0.37	50.14	2.95	39.20	0.00			492	222222255
14	598.4	6.959	6.902	27.077	36.032	44.592	34.549	34.572	0.66	60.72	3.00	40.80	0.00			594	222222255
13	805.7	5.544	5.474	27.258	36.282	44.906	34.544	34.546	0.71	77.73	3.19	44.00	0.00			799	222222255
12	994.6	4.686	4.605	27.364	36.431	45.095	34.551	34.556	1.16	92.84	3.14	43.50	0.00			986	222222255
11	1246.2	3.744	3.650	27.484	36.599	45.309	34.575	34.580	1.47	113.07	3.12	43.30	0.00			1235	222222255
10	1497.7	3.070	2.961	27.570	36.722	45.465	34.601	34.600	1.86	127.67	3.01	42.20	0.00			1483	222222255
9	1998.0	2.269	2.129	27.669	36.864	45.650	34.634	34.633	2.34	146.00	2.88	40.80	0.00			1977	222222255
8	2397.6	1.973	1.803	27.709	36.922	45.724	34.652	34.652	2.61	152.34	2.82	40.10	0.00			2370	222222255
7	2999.6	1.714	1.493	27.747	36.977	45.795	34.671	34.672	2.97	155.06	2.71	39.10	0.00			2961	222222255
6	3502.9	1.548	1.281	27.769	37.012	45.840	34.680	34.678	3.33	153.45	2.64	38.00	0.00			3454	222222255
5	4005.0	1.415	1.098	27.788	37.040	45.879	34.688	34.689	3.74	146.81	2.51	36.80	0.00			3945	222222255
4	4253.3	1.335	0.993	27.800	37.058	45.902	34.694	34.695	4.01	140.06	2.47	36.00	0.00			4187	222222255
3	4502.5	1.312	0.943	27.806	37.067	45.913	34.697	34.699	4.17	136.23	2.43	35.40	0.00			4430	222222255
2	4755.2	1.298	0.900	27.810	37.074	45.923	34.699	34.699	4.29	133.31	2.42	35.20	0.00			4676	222222255
1	5219.7	1.335	0.880	27.812	37.077	45.927	34.700		4.29	131.60	2.40	35.10	0.00			5127	252222255

CRUISE: MW 893 STA: 112 DATE (D/M/Y): 19- 3-89 TIME: 0920 LAT: 9 29.79 N LONG: 167 0.60 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24062E-04 1/S SOUND SPEED= 1506.1 M/S Depth= 5045 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.630	34.424	4.73	26.630	22.403	30.678	38.599	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.630	34.424	4.73	26.630	22.403	30.678	38.599	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.651	34.414	5.02	26.647	22.390	30.665	38.586	0.109	0.1	0.28	-0.050	-2.99	-0.631	20.0
30	26.649	34.413	5.05	26.642	22.391	30.666	38.587	0.163	0.3	-3.32	-0.318	19.08	1.596	30.0
40	26.624	34.411	5.00	26.615	22.398	30.673	38.596	0.218	0.4	-5.10	-0.349	31.73	2.058	40.0
50	26.577	34.407	4.98	26.566	22.411	30.687	38.610	0.272	0.7	-0.24	0.051	2.71	0.602	50.0
100	22.861	34.846	5.09	22.841	23.864	32.233	40.243	0.530	2.6	-178.84	8.053	1345.07	13.398	100.0
125	18.297	34.754	3.60	18.275	25.016	33.524	41.664	0.618	3.6	-254.83	-14.797	1236.01	12.843	124.9
150	14.615	34.567	2.32	14.593	25.727	34.363	42.624	0.679	4.5	-57.11	-0.219	240.79	5.669	149.8
200	11.691	34.655	0.57	11.665	26.385	35.132	43.496	0.776	6.2	-27.04	1.815	155.77	4.559	199.6
250	11.135	34.696	0.43	11.104	26.520	35.290	43.675	0.857	8.1	-10.97	0.178	51.04	2.610	249.3
300	10.201	34.687	0.43	10.166	26.679	35.488	43.909	0.931	10.1	-18.99	-0.661	67.80	3.008	299.0
350	9.607	34.673	0.46	9.567	26.770	35.603	44.049	1.000	12.4	-10.84	-0.440	36.03	2.193	348.8
400	8.952	34.627	0.34	8.908	26.841	35.704	44.177	1.066	14.9	-7.34	-0.088	27.41	1.912	398.4
450	8.694	34.624	0.48	8.645	26.880	35.755	44.239	1.129	17.7	-5.59	-0.418	14.15	1.374	448.1
500	8.392	34.611	0.43	8.339	26.918	35.806	44.303	1.191	20.7	-10.46	-0.447	31.95	2.065	497.8
600	7.342	34.564	0.55	7.283	27.036	35.974	44.516	1.307	27.2	-9.65	-0.338	28.83	1.962	597.1
700	6.371	34.541	0.75	6.307	27.151	36.134	44.720	1.414	34.3	-8.87	-0.047	30.02	2.002	696.3
800	5.665	34.546	0.70	5.595	27.244	36.262	44.880	1.511	41.7	-4.64	0.030	16.27	1.474	795.5
900	5.323	34.542	0.95	5.247	27.284	36.319	44.953	1.602	49.5	-4.72	-0.010	15.18	1.423	894.6
1000	4.755	34.551	1.20	4.673	27.357	36.420	45.081	1.688	57.9	-4.45	0.114	16.46	1.482	993.7
1200	3.933	34.571	1.51	3.841	27.461	36.567	45.267	1.843	75.2	-3.46	0.103	12.76	1.305	1191.7
1400	3.296	34.590	1.80	3.193	27.540	36.680	45.412	1.980	93.4	-3.13	0.105	11.57	1.243	1389.5
1600	2.852	34.607	1.99	2.738	27.595	36.759	45.513	2.104	112.4	-1.98	0.083	7.61	1.007	1587.0
1800	2.489	34.623	2.18	2.363	27.640	36.824	45.597	2.218	132.2	-1.57	0.079	6.32	0.918	1784.4
2000	2.249	34.637	2.34	2.109	27.672	36.869	45.655	2.325	152.8	-0.90	0.055	3.85	0.717	1981.6
2200	2.049	34.649	2.50	1.894	27.699	36.908	45.705	2.427	174.6	-0.96	0.055	4.12	0.741	2178.6
2400	1.936	34.657	2.62	1.766	27.715	36.931	45.735	2.524	197.5	-0.55	0.029	2.35	0.560	2375.5
2600	1.859	34.662	2.71	1.673	27.727	36.947	45.756	2.620	221.9	-0.40	0.024	1.81	0.492	2572.1
2800	1.798	34.667	2.81	1.594	27.736	36.961	45.773	2.715	248.1	-0.33	0.015	1.43	0.437	2768.6
3000	1.761	34.669	2.88	1.538	27.742	36.970	45.785	2.810	276.0	-0.42	0.014	1.77	0.486	2964.9
3200	1.670	34.673	3.02	1.430	27.753	36.987	45.808	2.903	305.7	-0.79	0.034	3.53	0.687	3161.0
3400	1.544	34.680	3.28	1.287	27.768	37.010	45.839	2.994	336.1	-0.71	0.032	3.26	0.659	3356.9
3600	1.456	34.684	3.48	1.181	27.779	37.027	45.861	3.081	367.4	-0.37	0.017	1.75	0.483	3552.7
3800	1.406	34.688	3.67	1.111	27.787	37.039	45.877	3.168	400.0	-0.37	0.019	1.81	0.492	3748.2
4000	1.371	34.691	3.82	1.056	27.793	37.048	45.889	3.253	434.0	-0.23	0.012	1.13	0.388	3943.6
4200	1.342	34.694	3.97	1.005	27.799	37.057	45.900	3.338	469.5	-0.24	0.013	1.24	0.408	4138.9
4400	1.305	34.697	4.13	0.947	27.805	37.066	45.913	3.423	506.7	-0.21	0.012	1.10	0.384	4333.9
4600	1.308	34.698	4.22	0.927	27.808	37.070	45.917	3.508	545.5	-0.12	0.007	0.66	0.298	4528.8
4800	1.304	34.700	4.30	0.900	27.811	37.075	45.923	3.593	586.4	-0.11	0.007	0.65	0.294	4723.5
5000	1.321	34.701	4.35	0.893	27.812	37.076	45.925	3.679	629.5	-0.03	0.003	0.19	0.159	4918.1
5115	1.328	34.701	4.33	0.886	27.813	37.077	45.927	3.729	655.4	-0.06	0.006	0.19	0.000	5029.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.7	26.646	26.645	22.401	30.675	38.597	34.427	34.426	5.05	0.91	0.19	0.00	0.00			8	222222255
23	46.0	26.576	26.565	22.428	30.705	38.628	34.430	34.426	5.01	0.91	0.17	0.00	0.00			45	222222255
22	96.8	20.588	20.570	24.547	32.980	41.051	34.915	34.890	4.52	1.81	0.35	1.04	0.06			96	222222255
21	146.4	14.934	14.912	25.663	34.287	42.537	34.573	34.575	2.58	13.39	1.41	17.84	0.06			145	222222255
20	196.6	11.826	11.801	26.338	35.080	43.440	34.628	34.636	0.71	27.29	2.37	32.00	0.00			195	222222255
19	297.8	10.053	10.018	26.700	35.515	43.942	34.681	34.679	0.40	34.34	2.61	36.00	0.00			295	222222255
18	397.3	9.150	9.106	26.828	35.682	44.147	34.651	34.644	0.35	39.87	2.77	37.70	0.00			394	222222255
17	496.6	8.447	8.395	26.907	35.793	44.287	34.608	34.609	0.49	45.31	2.83	38.60	0.00			493	222222255
16	596.2	7.350	7.292	27.036	35.973	44.515	34.566	34.562	0.54	56.08	2.98	40.40	0.00			591	222222255
15	698.8	6.188	6.126	27.173	36.166	44.760	34.540	34.537		69.58	3.08	42.60	0.00			693	225222255
14	797.2	5.545	5.476	27.259	36.282	44.906	34.545	34.544	0.72	78.84	3.17	43.90	0.00			791	222222255
13	998.8	4.620	4.539	27.374	36.445	45.112	34.555	34.551	1.12	94.65	3.14	43.70	0.00			990	222222255
12	1245.4	3.687	3.593	27.491	36.609	45.322	34.577	34.574	1.60	113.18	3.03	42.40	0.00			1234	222222255
11	1499.7	3.046	2.938	27.571	36.724	45.468	34.599	34.600	1.87	127.78	2.99	42.20	0.00			1485	222222255
10	1998.6	2.266	2.126	27.670	36.866	45.652	34.636	34.635	2.31	145.60	2.88	40.80	0.00			1977	222222255
9	2503.2	1.916	1.737	27.719	36.936	45.741	34.659	34.659	2.65	153.55	2.81	40.00	0.00			2474	222222255
8	3002.8	1.787	1.564	27.739	36.966	45.780	34.668	34.668	2.84	155.26	2.73	39.50	0.00			2964	222222255
7	3504.7	1.491	1.225	27.774	37.019	45.851	34.681	34.681	3.38	152.34	2.61	37.80	0.00			3456	222222255
6	4005.1	1.366	1.051	27.793	37.049	45.889	34.691	34.692	3.85	144.19	2.51	36.40	0.00			3945	222222255
5	4254.2	1.330	0.988	27.800	37.059	45.903	34.694	34.696	4.01	140.16	2.47	35.90	0.00			4188	222222255
4	4505.4	1.305	0.936	27.807	37.069	45.915	34.698	34.699	4.17	135.13	2.45	35.60	0.00			4433	222222255
3	4755.4	1.307	0.909	27.810	37.073	45.921	34.699		4.22	134.02	2.41	35.30	0.00			4676	252222255
2	5117.5	1.328	0.885	27.812	37.077	45.926	34.700	34.700	4.30	132.61	2.41	35.10	0.00			5028	222222255
1	5118.6	1.328	0.885	27.812	37.076	45.926	34.700	34.698	4.31	132.41	2.41	35.10	0.00			5029	222222255

CRUISE: MW 893 STA: 113 DATE (D/M/Y): 19- 3-89 TIME: 1748 LAT: 9 29.97 N LONG: 166 10.09 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1505.6 M/S Depth= 4993 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.271	34.396	5.24	26.271	22.495	30.779	38.710	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.271	34.396	5.24	26.270	22.495	30.779	38.710	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.290	34.392	5.01	26.286	22.488	30.771	38.701	0.107	0.1	0.64	-0.033	-5.29	-0.840	20.0
30	26.294	34.392	4.98	26.287	22.487	30.770	38.700	0.161	0.2	-0.20	-0.037	0.85	0.336	30.0
40	26.294	34.391	4.96	26.285	22.487	30.771	38.701	0.214	0.4	-0.32	-0.001	2.33	0.558	40.0
50	26.293	34.391	4.94	26.282	22.488	30.772	38.702	0.268	0.7	-4.76	0.508	44.11	2.426	50.0
100	22.389	34.815	4.99	22.369	23.975	32.357	40.380	0.513	2.5	-137.73	4.779	995.41	11.524	99.9
125	18.341	34.734	3.74	18.319	24.991	33.497	41.636	0.600	3.5	-188.35	-9.915	929.19	11.134	124.9
150	14.818	34.556	2.62	14.795	25.675	34.304	42.558	0.665	4.4	-66.07	-3.150	285.34	6.170	149.8
200	11.491	34.676	0.44	11.466	26.438	35.193	43.565	0.765	6.2	-38.17	2.351	215.44	5.361	199.6
250	10.333	34.678	0.54	10.303	26.648	35.451	43.867	0.842	8.0	-13.16	0.508	65.03	2.945	249.3
300	9.910	34.671	0.53	9.875	26.717	35.537	43.971	0.912	9.9	-10.06	-0.249	37.04	2.223	299.0
350	9.542	34.663	0.52	9.502	26.773	35.609	44.058	0.980	12.2	-8.91	-0.398	28.78	1.959	348.7
400	9.010	34.635	0.50	8.966	26.838	35.699	44.169	1.046	14.7	-8.41	-0.259	28.56	1.952	398.4
450	8.679	34.626	0.40	8.631	26.884	35.759	44.244	1.109	17.4	-7.84	-0.481	21.74	1.703	448.1
500	8.167	34.601	0.44	8.115	26.943	35.842	44.348	1.171	20.4	-8.09	-0.265	26.01	1.863	497.8
600	7.194	34.555	0.65	7.136	27.050	35.994	44.543	1.286	26.9	-10.23	-0.318	31.04	2.035	597.1
700	6.458	34.543	0.69	6.393	27.140	36.120	44.702	1.391	33.8	-4.94	0.014	17.29	1.519	696.3
800	5.841	34.546	0.60	5.771	27.223	36.232	44.842	1.490	41.4	-7.67	-0.018	25.49	1.844	795.5
900	5.099	34.548	0.93	5.024	27.314	36.360	45.004	1.580	49.2	-5.64	0.081	19.98	1.633	894.6
1000	4.689	34.554	1.12	4.608	27.366	36.433	45.096	1.664	57.3	-5.15	0.097	18.15	1.556	993.7
1200	3.833	34.572	1.54	3.741	27.472	36.583	45.288	1.816	74.3	-4.32	0.117	15.54	1.440	1191.7
1400	3.162	34.593	1.87	3.061	27.555	36.701	45.440	1.949	92.0	-2.78	0.088	10.11	1.161	1389.4
1600	2.795	34.609	2.01	2.681	27.602	36.768	45.526	2.071	110.6	-1.80	0.081	6.99	0.966	1587.0
1800	2.449	34.626	2.21	2.323	27.646	36.831	45.606	2.184	130.2	-1.51	0.067	5.94	0.890	1784.4
2000	2.261	34.636	2.34	2.121	27.670	36.867	45.652	2.291	151.0	-1.12	0.062	4.67	0.789	1981.6
2200	2.086	34.645	2.46	1.931	27.693	36.899	45.695	2.394	172.9	-0.85	0.051	3.68	0.701	2178.6
2400	1.968	34.654	2.58	1.797	27.711	36.925	45.727	2.493	196.2	-0.82	0.053	3.68	0.700	2375.4
2600	1.855	34.662	2.70	1.669	27.727	36.948	45.756	2.589	220.7	-0.48	0.030	2.20	0.541	2572.1
2800	1.756	34.668	2.85	1.552	27.740	36.967	45.782	2.684	246.7	-0.74	0.031	3.17	0.650	2768.5
3000	1.643	34.674	3.04	1.423	27.754	36.989	45.810	2.775	273.9	-0.46	0.019	2.00	0.516	2964.8
3200	1.601	34.676	3.14	1.362	27.760	36.998	45.823	2.866	302.4	-0.27	0.010	1.18	0.397	3160.9
3400	1.568	34.679	3.24	1.311	27.766	37.007	45.834	2.956	332.7	-0.28	0.018	1.39	0.431	3356.9
3600	1.525	34.682	3.38	1.248	27.773	37.017	45.847	3.045	364.8	-0.42	0.018	1.95	0.509	3552.6
3800	1.455	34.686	3.54	1.159	27.782	37.031	45.866	3.134	398.2	-0.45	0.020	2.15	0.536	3748.2
4000	1.380	34.690	3.78	1.064	27.792	37.047	45.887	3.221	432.8	-0.48	0.025	2.41	0.567	3943.6
4200	1.343	34.694	3.97	1.007	27.799	37.057	45.900	3.306	468.5	-0.24	0.014	1.26	0.409	4138.8
4400	1.309	34.697	4.13	0.951	27.805	37.066	45.912	3.391	505.6	-0.23	0.013	1.24	0.407	4333.9
4600	1.290	34.700	4.26	0.910	27.810	37.073	45.921	3.475	544.3	-0.24	0.013	1.29	0.415	4528.8
4800	1.288	34.702	4.35	0.884	27.813	37.078	45.927	3.560	584.8	-0.04	0.004	0.24	0.180	4723.5
5000	1.309	34.702	4.37	0.881	27.814	37.078	45.928	3.645	627.5	-0.01	0.002	0.24	0.000	4918.1
5065	1.316	34.702	4.35	0.880	27.814	37.079	45.928	3.673	642.0	-0.01	0.002	0.24	0.000	4981.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.0	26.292	26.291	22.483	30.766	38.697	34.388	34.387	5.07	0.30	0.16	0.00	0.00	1.757	0.915	6	222222222
23	47.6	26.256	26.245	22.504	30.789	38.720	34.397	34.389	5.04	0.60	0.15	0.10	0.00	1.805	0.928	47	222222222
22	96.9	21.858	21.839	24.206	32.603	40.639	34.924	34.839	5.12	1.51	0.24	0.30	0.00	1.967	0.980	96	222222222
21	146.7	13.504	13.483	25.941	34.618	42.918	34.542	34.526	2.50	15.71	1.53	19.98	0.02	1.234	0.595	145	222222222
20	197.9	10.934	10.910	26.537	35.315	43.707	34.673	34.659	0.54	29.90	2.49	34.00	0.00	0.172		196	222222225
19	247.4	10.180	10.151	26.679	35.488	43.910	34.683	34.681	0.56	32.93	2.55	35.80	0.00	0.069		245	222222225
18	295.4	9.813	9.779	26.732	35.557	43.994	34.670	34.671	0.55	34.84	2.58	36.60	0.00	0.044	0.032	293	222222222
17	395.8	8.912	8.869	26.852	35.717	44.192	34.634	34.627	0.60	41.18	2.73	37.80	0.00	0.028		393	222222225
16	497.8	8.195	8.144	26.926	35.824	44.329	34.584	34.599	0.55	47.12	2.88	38.80	0.00		-0.004	494	222222252
15	597.3	7.194	7.136	27.036	35.981	44.530	34.538	34.552	0.68	57.29	2.98	40.40	0.00	0.011	0.002	593	222222222
14	799.4	5.849	5.778	27.217	36.226	44.836	34.540	34.538	0.79	73.91	3.12	42.80	0.00	0.011	0.013	793	222222222
13	997.0	4.814	4.732	27.347	36.408	45.066	34.547	34.547	1.09	90.02	3.14	43.70	0.00	0.003	0.015	989	222222222
12	1248.8	3.631	3.537	27.497	36.619	45.334	34.578	34.574	1.65	113.38	3.04	42.40	0.00	0.014	0.006	1238	222222222
11	1498.4	2.918	2.811	27.585	36.745	45.496	34.603	34.599	2.00	129.49	2.96	41.60	0.00		-0.005	1484	222222252
10	2001.0	2.214	2.074	27.677	36.875	45.663	34.639	34.637	2.39	146.10	2.88	41.00	0.00	0.010	-0.004	1980	222222222
9	2502.8	1.890	1.712	27.722	36.940	45.747	34.660	34.660	2.70	152.55	2.79	39.90	0.00	-0.008	-0.005	2473	222222222
8	3002.2	1.653	1.433	27.753	36.987	45.808	34.673	34.671	3.06	154.06	2.68	38.70	0.00	-0.006	0.001	2964	222222222
6	4005.3	1.385	1.069	27.792	37.046	45.886	34.690	34.688	3.81	144.39	2.52	36.50	0.00	0.003	-0.004	3945	222222222
5	4255.3	1.335	0.993	27.801	37.060	45.903	34.696	34.694	4.03	139.05	2.47	35.90	0.00	-0.003	-0.005	4189	222222222
4	4503.8	1.302	0.933	27.806	37.068	45.915	34.697	34.696	4.22	134.42	2.42	35.30	0.00	0.010	-0.005	4431	222222222
3	4756.1	1.285	0.887	27.812	37.076	45.926	34.700	34.699	4.34	131.00	2.37	35.10	0.00	-0.011	-0.005	4677	222222222
2	5068.8	1.317	0.881	27.813	37.078	45.928	34.701	34.701	4.34	130.80	2.37	35.10	0.00	-0.004	-0.004	4981	222222222
1	5068.3	1.317	0.881	27.813	37.078	45.928	34.702		4.32	131.00	2.40	35.00	0.00	-0.003	-0.004	4980	252222222

CRUISE: MW 893 STA: 114 DATE (D/M/Y): 20- 3-89 TIME: 0221 LAT: 9 29.94 N LONG: 165 20.18 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1501.4 M/S Depth= 4354 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.635	34.446	5.28	26.635	22.418	30.693	38.614	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	26.635	34.446	5.28	26.634	22.419	30.693	38.614	0.016	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.606	34.435	5.04	26.601	22.421	30.696	38.618	0.108	0.1	-4.70	-0.103	33.07	2.100	20.0
30	26.547	34.432	4.98	26.540	22.438	30.715	38.639	0.162	0.3	-3.16	-0.107	21.55	1.696	30.0
40	26.530	34.432	4.97	26.521	22.444	30.721	38.645	0.217	0.4	-0.96	-0.020	6.78	0.951	40.0
50	26.524	34.431	4.95	26.513	22.446	30.723	38.647	0.271	0.7	-1.83	-0.305	8.19	1.046	50.0
100	21.470	34.889	4.63	21.450	24.287	32.695	40.743	0.506	2.4	-149.72	1.088	980.48	11.437	99.9
125	17.502	34.797	4.07	17.481	25.244	33.777	41.941	0.584	3.3	-141.47	-11.898	592.30	8.890	124.9
150	13.904	34.509	2.21	13.883	25.833	34.496	42.782	0.646	4.2	-99.28	-2.197	450.63	7.754	149.8
200	11.979	34.636	0.64	11.953	26.316	35.051	43.405	0.741	5.9	-21.69	1.806	131.95	4.196	199.5
250	11.057	34.699	0.40	11.026	26.537	35.309	43.697	0.823	7.8	-17.86	0.209	81.65	3.301	249.3
300	10.230	34.690	0.46	10.195	26.677	35.484	43.904	0.897	9.8	-10.26	-0.221	39.10	2.284	299.0
350	9.697	34.673	0.53	9.657	26.755	35.585	44.027	0.966	12.1	-9.16	-0.386	30.64	2.022	348.7
400	9.451	34.663	0.71	9.406	26.789	35.629	44.082	1.034	14.7	-5.57	-0.172	19.45	1.611	398.4
450	8.951	34.634	0.45	8.902	26.847	35.711	44.184	1.100	17.6	-11.50	-0.734	32.25	2.074	448.1
500	8.555	34.616	0.40	8.501	26.896	35.777	44.267	1.163	20.6	-6.87	-0.237	22.45	1.731	497.8
600	7.415	34.564	0.62	7.356	27.026	35.959	44.499	1.282	27.3	-11.44	-0.455	34.03	2.131	597.1
700	6.421	34.534	1.01	6.356	27.139	36.120	44.704	1.390	34.4	-9.23	-0.117	29.87	1.996	696.3
800	5.630	34.536	0.96	5.561	27.241	36.261	44.880	1.487	41.9	-5.95	0.021	20.30	1.646	795.5
900	5.062	34.541	1.13	4.987	27.313	36.361	45.007	1.577	49.6	-5.67	0.131	20.83	1.667	894.6
1000	4.508	34.552	1.29	4.429	27.384	36.460	45.133	1.659	57.7	-5.27	0.121	19.03	1.594	993.7
1200	3.751	34.575	1.58	3.661	27.483	36.598	45.307	1.808	74.3	-3.25	0.101	11.86	1.258	1191.6
1400	3.231	34.591	1.83	3.129	27.547	36.689	45.425	1.942	92.1	-2.73	0.082	9.87	1.148	1389.4
1600	2.802	34.607	2.03	2.688	27.599	36.765	45.522	2.065	110.8	-1.97	0.079	7.48	0.999	1587.0
1800	2.450	34.623	2.22	2.324	27.643	36.829	45.604	2.178	130.5	-1.62	0.087	6.60	0.938	1784.4
2000	2.197	34.638	2.38	2.058	27.677	36.877	45.666	2.284	150.9	-0.97	0.049	3.93	0.725	1981.6
2200	2.080	34.645	2.48	1.925	27.693	36.900	45.696	2.385	172.6	-0.48	0.034	2.14	0.534	2178.6
2400	1.915	34.657	2.64	1.745	27.716	36.933	45.738	2.484	195.8	-1.00	0.059	4.40	0.766	2375.4
2600	1.825	34.663	2.75	1.639	27.729	36.952	45.762	2.579	220.0	-0.38	0.022	1.68	0.474	2572.1
2800	1.754	34.668	2.87	1.551	27.740	36.967	45.782	2.673	245.9	-0.57	0.030	2.49	0.576	2768.5
3000	1.664	34.673	3.03	1.444	27.752	36.985	45.805	2.765	273.2	-0.48	0.020	2.08	0.526	2964.8
3200	1.600	34.677	3.18	1.361	27.761	36.999	45.823	2.856	301.8	-0.32	0.018	1.52	0.450	3160.9
3400	1.545	34.681	3.33	1.288	27.769	37.011	45.839	2.945	332.0	-0.35	0.016	1.59	0.461	3356.9
3600	1.508	34.683	3.45	1.231	27.775	37.020	45.851	3.034	363.7	-0.34	0.016	1.60	0.462	3552.6
3800	1.453	34.687	3.62	1.157	27.783	37.032	45.867	3.122	396.9	-0.45	0.022	2.16	0.537	3748.2
4000	1.385	34.691	3.83	1.070	27.792	37.047	45.886	3.209	431.4	-0.44	0.021	2.15	0.536	3943.6
4200	1.334	34.694	4.03	0.998	27.800	37.058	45.902	3.294	466.9	-0.19	0.009	0.95	0.355	4138.8
4400	1.329	34.696	4.07	0.971	27.803	37.062	45.907	3.379	504.2	-0.13	0.005	0.95	0.000	4333.9
4407	1.330	34.696	4.08	0.971	27.803	37.063	45.908	3.382	505.5	-0.13	0.005	0.95	0.000	4340.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	21.0	26.572	26.567	22.432	30.708	38.631	34.436	34.433	4.78	0.70	0.23	0.01	-0.01			20	222222255
23	46.7	26.514	26.503	22.450	30.728	38.653	34.433	34.429	4.97	0.70	0.22	0.11	-0.01			46	222222255
22	70.5	23.996	23.982	23.488	31.827	39.808	34.788	34.789	5.07	0.81	0.20	0.10	0.00			70	222222255
21	93.9	21.092	21.074	24.421	32.839	40.896	34.929	34.903	4.57	1.71	0.30	0.48	0.02			93	222222255
20	120.2	17.903	17.882	25.188	33.707	41.857	34.851	34.846	4.12	3.93	0.57	5.94	0.06			119	222222255
19	144.2	14.863	14.841	25.670	34.297	42.549	34.562	34.557	2.82	12.79	1.35	17.00	0.00			143	222222255
18	171.1	12.888	12.865	26.067	34.768	43.090	34.543	34.539	1.57	21.45	2.03	26.40	0.00			170	222222255
17	192.7	11.968	11.943	26.314	35.050	43.404	34.631	34.636	0.74	26.78	2.40	31.80	0.00			191	222222255
16	244.5	10.931	10.901	26.559	35.337	43.729	34.699	34.698	0.49	31.01	2.52	35.00	0.00			242	222222255
15	297.6	10.156	10.121	26.689	35.499	43.922	34.689	34.687	0.52	33.63	2.59	36.20	0.00			295	222222255
14	394.1	9.453	9.409	26.786	35.627	44.079	34.660	34.679	0.85	36.35	2.60	36.50	0.00			391	222222255
13	496.3	8.444	8.392	26.909	35.795	44.290	34.610	34.614	0.40	46.52	2.91	38.70	0.00			492	222222255
12	995.1	4.561	4.481	27.377	36.450	45.121	34.550	34.548	1.30	95.45	3.10	43.20	0.00			987	222222255
11	1495.5	2.965	2.858	27.578	36.735	45.484	34.599	34.599	1.95	130.19	2.97	41.90	0.00			1481	222222255
10	1998.7	2.195	2.056	27.678	36.877	45.666	34.638	34.637	2.39	147.41	2.88	40.80	0.00			1977	222222255
9	2500.1	1.846	1.669	27.726	36.947	45.756	34.662	34.663	2.75	153.75	2.77	39.90	0.00			2471	222222255
8	3002.6	1.668	1.447	27.752	36.985	45.805	34.673	34.673	3.06	156.88	2.69	38.90	0.00			2964	222222255
7	3253.0	1.575	1.332	27.765	37.004	45.830	34.679	34.678	3.27	153.75	2.64	38.20	0.00			3209	222222255
6	3504.7	1.518	1.251	27.773	37.017	45.847	34.682	34.684	3.43	151.24	2.62	38.00	0.00			3456	222222255
5	3754.5	1.462	1.171	27.782	37.030	45.865	34.686	34.686	3.59	148.52	2.58	37.20	0.00			3700	222222255
4	4005.6	1.382	1.066	27.793	37.048	45.888	34.692	34.692	3.85	143.79	2.52	36.60	0.00			3945	222222255
3	4257.1	1.332	0.990	27.800	37.059	45.903	34.694	34.694	4.05	138.25	2.47	36.10	0.00			4191	222222255
2	4410.6	1.331	0.972	27.802	37.061	45.906	34.695	34.696	4.07					-0.004	-0.004	4340	222555522
1	4410.6	1.331	0.972	27.802	37.061	45.906	34.695	34.696	4.09	138.35	2.47	35.80	0.00	-0.005	-0.004	4340	222222222

CRUISE: MW 893 STA: 115 DATE (D/M/Y): 20- 3-89 TIME: 1020 LAT: 9 29.56 N LONG: 164 30.29 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1502.3 M/S Depth= 4496 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.659	34.584	5.38	26.659	22.515	30.787	38.706	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.659	34.584	5.38	26.659	22.515	30.787	38.706	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.692	34.568	5.02	26.687	22.493	30.765	38.684	0.107	0.1	0.41	-0.042	-3.81	-0.713	20.0
30	26.696	34.567	4.99	26.689	22.492	30.764	38.683	0.160	0.2	-0.04	-0.041	-0.41	-0.235	30.0
40	26.697	34.566	4.97	26.688	22.492	30.764	38.683	0.214	0.4	-0.56	-0.179	0.97	0.361	40.0
50	26.693	34.564	4.93	26.682	22.493	30.765	38.684	0.267	0.7	-0.52	-0.109	1.97	0.513	50.0
100	20.442	34.878	4.51	20.423	24.558	32.997	41.072	0.514	2.5	-224.64	4.608	1528.80	14.287	99.9
125	16.068	34.658	4.01	16.048	25.474	34.057	42.268	0.587	3.4	-156.33	-13.681	638.21	9.231	124.9
150	14.398	34.532	2.56	14.376	25.746	34.391	42.659	0.646	4.2	-40.38	-1.683	151.90	4.503	149.8
200	12.240	34.596	0.90	12.213	26.235	34.961	43.306	0.748	6.0	-29.25	2.599	181.64	4.924	199.5
250	10.829	34.701	0.49	10.799	26.579	35.361	43.758	0.829	7.9	-20.04	0.056	87.32	3.414	249.3
300	10.084	34.689	0.49	10.049	26.701	35.514	43.940	0.901	9.9	-10.76	-0.269	39.95	2.309	299.0
350	9.624	34.671	0.46	9.584	26.765	35.598	44.043	0.970	12.2	-9.78	-0.484	31.05	2.036	348.7
400	9.217	34.652	0.45	9.173	26.818	35.669	44.131	1.036	14.7	-9.17	-0.466	28.12	1.938	398.4
450	8.692	34.621	0.53	8.644	26.878	35.752	44.236	1.100	17.5	-11.13	-0.841	27.95	1.932	448.1
500	8.226	34.590	0.71	8.174	26.926	35.822	44.326	1.162	20.4	-6.34	-0.088	22.47	1.732	497.8
600	7.191	34.548	0.91	7.133	27.045	35.989	44.538	1.278	26.9	-8.82	-0.336	26.14	1.868	597.1
700	6.521	34.532	1.09	6.456	27.124	36.100	44.680	1.385	34.0	-6.78	-0.102	21.83	1.707	696.3
800	5.921	34.530	1.06	5.850	27.201	36.206	44.813	1.485	41.7	-7.07	0.035	24.50	1.809	795.5
900	5.297	34.533	1.08	5.220	27.279	36.316	44.951	1.578	49.8	-6.19	0.088	21.86	1.708	894.6
1000	4.665	34.546	1.21	4.584	27.362	36.430	45.096	1.664	58.0	-5.53	0.091	19.51	1.614	993.7
1200	3.881	34.568	1.40	3.789	27.465	36.573	45.276	1.818	75.3	-3.32	0.101	12.29	1.281	1191.7
1400	3.341	34.588	1.62	3.238	27.534	36.671	45.401	1.957	93.7	-3.77	0.135	14.12	1.373	1389.4
1600	2.746	34.609	1.98	2.633	27.606	36.775	45.535	2.081	112.7	-3.01	0.115	11.23	1.225	1587.0
1800	2.316	34.630	2.20	2.191	27.660	36.852	45.634	2.190	131.6	-1.45	0.082	5.88	0.886	1784.4
2000	2.089	34.644	2.45	1.951	27.691	36.896	45.691	2.291	151.2	-0.64	0.039	2.69	0.600	1981.6
2200	1.979	34.651	2.55	1.826	27.705	36.918	45.718	2.389	172.2	-0.58	0.029	2.39	0.565	2178.6
2400	1.890	34.657	2.64	1.721	27.719	36.937	45.743	2.485	194.7	-0.44	0.029	1.97	0.513	2375.4
2600	1.836	34.662	2.73	1.650	27.728	36.950	45.760	2.580	218.9	-0.42	0.023	1.83	0.494	2572.1
2800	1.752	34.667	2.87	1.549	27.740	36.967	45.782	2.674	244.8	-0.57	0.030	2.52	0.580	2768.5
3000	1.672	34.672	3.01	1.452	27.751	36.984	45.803	2.766	272.0	-0.38	0.018	1.66	0.471	2964.8
3200	1.598	34.677	3.18	1.360	27.761	36.999	45.823	2.857	300.7	-0.42	0.017	1.84	0.495	3160.9
3400	1.535	34.681	3.35	1.278	27.770	37.012	45.841	2.947	330.8	-0.35	0.018	1.64	0.468	3356.9
3600	1.462	34.685	3.52	1.187	27.780	37.027	45.861	3.035	362.3	-0.40	0.019	1.90	0.504	3552.6
3800	1.423	34.688	3.67	1.128	27.786	37.037	45.873	3.122	395.2	-0.33	0.015	1.57	0.458	3748.2
4000	1.389	34.690	3.82	1.073	27.791	37.045	45.885	3.208	429.6	-0.37	0.017	1.78	0.487	3943.6
4200	1.321	34.695	4.03	0.985	27.801	37.060	45.904	3.293	465.2	-0.34	0.018	1.75	0.483	4138.8
4400	1.302	34.697	4.16	0.945	27.805	37.066	45.913	3.377	502.0	-0.15	0.009	0.80	0.327	4333.9
4553	1.301	34.698	4.17	0.926	27.808	37.070	45.917	3.442	531.5	-0.10	0.007	0.80	0.000	4483.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	3.7	26.645	26.644	22.504	30.777	38.697	34.563	34.563	4.98	1.01	0.29	0.10	0.00			3	222222255
23	46.1	26.643	26.633	22.506	30.779	38.699	34.561	34.562	4.88	1.31	0.24	0.20	0.00			45	222222255
22	96.4	18.376	18.360	25.109	33.611	41.747	34.902	34.879	4.13	4.03	0.51	4.90	0.00			95	222222255
21	146.2	14.043	14.022	25.796	34.454	42.735	34.498	34.523	2.37	16.01	1.56	20.20	0.00			145	222222255
20	198.3	11.802	11.776	26.353	35.095	43.456	34.640	34.645	0.65	28.09	2.41	31.98	0.12			197	222222255
19	247.0	10.873	10.843	26.571	35.351	43.746	34.700	34.699	0.46	31.52	2.52	34.60	0.00			245	222222255
18	295.7	10.006	9.972	26.712	35.528	43.957	34.686	34.686	0.49	34.84	2.60	36.30	0.00			293	222222255
17	398.3	9.128	9.084	26.830	35.685	44.151	34.649	34.647	0.41	39.87	2.71	37.80	0.00			395	222222255
16	496.9	8.134	8.083	26.948	35.848	44.356	34.600	34.591	0.62	47.83	2.83	38.50	0.00			493	222222255
15	597.3	7.190	7.132	27.039	35.984	44.533	34.541	34.549	0.89	56.79	2.89	39.50	0.00			593	222222255
14	796.6	5.690	5.620	27.228	36.245	44.862	34.529	34.530	1.04	76.63	3.04	41.90	0.00			790	222222255
13	998.4	4.536	4.456	27.377	36.452	45.123	34.547	34.548	1.16	97.47	3.10	43.00	0.00			990	222222255
12	1248.3	3.711	3.617	27.482	36.599	45.311	34.568	34.570	1.44	114.48	3.09	42.90	0.00			1237	222222255
11	1500.1	3.026	2.918	27.572	36.726	45.472	34.599	34.597	1.81	129.29	3.01	41.80	0.00			1486	222222255
10	2000.2	2.124	1.986	27.685	36.889	45.682	34.641	34.641	2.42	149.52	2.86	40.40	0.00			1979	222222255
9	2501.3	1.873	1.695	27.722	36.942	45.749	34.659	34.658	2.66	154.66	2.77	39.70	0.00			2472	222222255
8	3003.8	1.677	1.456	27.749	36.982	45.801	34.670	34.674	3.01	155.57	2.70	38.80	0.00			2965	222222255
7	3252.5	1.570	1.327	27.765	37.005	45.831	34.679	34.679	3.20		2.66	38.20	0.00			3209	222522255
6	3504.3	1.501	1.235	27.775	37.020	45.851	34.683	34.684	3.45	150.73	2.59	37.40	0.00			3455	222222255
5	3754.6	1.438	1.147	27.784	37.034	45.869	34.687	34.686	3.63	147.71	2.57	37.00	0.00			3700	222222255
4	4006.5	1.384	1.068	27.791	37.045	45.885	34.689	34.690	3.81	144.09	2.52	36.50	0.00			3946	222222255
3	4256.9	1.309	0.967	27.803	37.063	45.908	34.696	34.695	4.07	138.15	2.46	35.60	0.00			4190	222222255
2	4555.9	1.301	0.926	27.807	37.070	45.917	34.698	34.698	4.19	135.13	2.42	35.30	0.00			4482	222222255
1	4555.3	1.301	0.926	27.807	37.069	45.916	34.697		4.22	135.23	2.43	35.30	0.00			4481	252222255

CRUISE: MW 893 STA: 116 DATE (D/M/Y): 20- 3-89 TIME: 1821 LAT: 9 29.61 N LONG: 163 40.28 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24055E-04 1/S SOUND SPEED= 1501.2 M/S Depth= 4338 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.528	34.550	5.21	26.528	22.531	30.806	38.729	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.528	34.550	5.21	26.528	22.531	30.807	38.729	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.548	34.540	4.98	26.544	22.518	30.794	38.716	0.106	0.1	-0.25	-0.055	0.85	0.337	20.0
30	26.548	34.540	5.00	26.541	22.519	30.794	38.717	0.160	0.2	0.11	-0.024	-1.24	-0.407	30.0
40	26.551	34.540	4.98	26.542	22.519	30.794	38.717	0.213	0.4	-0.11	0.008	0.96	0.358	40.0
50	26.553	34.540	4.93	26.541	22.518	30.794	38.717	0.266	0.7	-0.03	-0.033	-0.38	-0.226	50.0
100	19.558	34.837	4.20	19.540	24.759	33.225	41.327	0.508	2.5	-210.46	2.769	1400.96	13.676	99.9
125	16.509	34.642	2.87	16.489	25.360	33.929	42.126	0.581	3.3	-120.02	-6.523	522.22	8.349	124.9
150	13.611	34.553	1.47	13.589	25.928	34.601	42.897	0.640	4.1	-68.74	1.998	362.01	6.952	149.8
200	11.265	34.668	0.85	11.240	26.474	35.238	43.618	0.729	5.7	-18.87	1.290	107.35	3.786	199.5
250	10.772	34.702	0.56	10.741	26.590	35.374	43.773	0.806	7.5	-15.05	-0.284	59.44	2.817	249.3
300	10.147	34.691	0.60	10.112	26.692	35.502	43.926	0.879	9.5	-9.58	-0.316	34.30	2.140	299.0
350	9.694	34.676	0.55	9.654	26.757	35.587	44.030	0.948	11.8	-8.56	-0.134	32.55	2.084	348.7
400	9.298	34.661	0.52	9.253	26.812	35.660	44.118	1.014	14.3	-11.79	-0.740	33.57	2.117	398.4
450	8.680	34.629	0.34	8.632	26.886	35.762	44.246	1.078	17.1	-7.30	-0.204	24.72	1.816	448.1
500	8.249	34.598	0.49	8.197	26.929	35.824	44.327	1.139	20.1	-9.56	-0.535	26.63	1.886	497.7
600	7.202	34.560	0.49	7.144	27.052	35.996	44.545	1.255	26.6	-10.02	-0.302	31.30	2.044	597.0
700	6.481	34.540	0.75	6.416	27.136	36.114	44.695	1.362	33.7	-8.14	-0.110	26.62	1.885	696.3
800	5.785	34.533	1.01	5.715	27.219	36.232	44.844	1.461	41.2	-7.12	-0.030	23.18	1.759	795.4
900	5.122	34.549	0.91	5.047	27.313	36.357	45.001	1.552	49.1	-5.94	0.030	20.17	1.641	894.6
1000	4.699	34.546	1.20	4.618	27.359	36.425	45.089	1.636	57.2	-4.88	0.076	16.77	1.496	993.6
1200	3.869	34.570	1.52	3.777	27.467	36.576	45.279	1.789	74.4	-4.20	0.134	15.46	1.437	1191.6
1400	3.169	34.592	1.75	3.068	27.554	36.700	45.438	1.922	92.0	-2.35	0.097	8.93	1.092	1389.4
1600	2.717	34.611	2.03	2.604	27.610	36.781	45.542	2.043	110.5	-2.35	0.112	9.24	1.111	1587.0
1800	2.375	34.630	2.25	2.250	27.655	36.844	45.623	2.153	129.6	-1.16	0.045	4.38	0.765	1784.4
2000	2.173	34.641	2.40	2.034	27.681	36.882	45.672	2.258	149.8	-0.78	0.049	3.35	0.669	1981.6
2200	2.010	34.651	2.54	1.856	27.704	36.914	45.713	2.358	171.2	-0.82	0.042	3.40	0.674	2178.6
2400	1.896	34.659	2.66	1.727	27.719	36.937	45.743	2.454	193.7	-0.44	0.026	1.90	0.504	2375.4
2600	1.792	34.665	2.80	1.606	27.734	36.958	45.770	2.548	217.8	-0.65	0.032	2.79	0.611	2572.0
2800	1.698	34.670	2.95	1.496	27.746	36.976	45.794	2.640	243.2	-0.54	0.024	2.32	0.557	2768.5
3000	1.630	34.675	3.10	1.411	27.756	36.991	45.813	2.731	270.0	-0.42	0.020	1.88	0.501	2964.8
3200	1.592	34.677	3.21	1.354	27.762	37.000	45.825	2.821	298.4	-0.27	0.013	1.23	0.405	3160.9
3400	1.554	34.680	3.32	1.297	27.768	37.009	45.837	2.911	328.7	-0.38	0.017	1.75	0.484	3356.8
3600	1.514	34.683	3.45	1.237	27.774	37.019	45.850	3.000	360.5	-0.24	0.011	1.14	0.391	3552.6
3800	1.466	34.685	3.59	1.169	27.781	37.030	45.864	3.089	394.0	-0.52	0.026	2.52	0.581	3748.2
4000	1.374	34.691	3.86	1.058	27.793	37.048	45.888	3.175	428.4	-0.54	0.024	2.61	0.591	3943.6
4200	1.302	34.696	4.10	0.967	27.803	37.063	45.908	3.259	463.6	-0.19	0.010	0.95	0.356	4138.8
4397	1.299	34.697	4.17	0.942	27.806	37.067	45.913	3.342	499.8	-0.21	0.011	0.95	0.000	4330.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.7	26.538	26.537	22.518	30.794	38.716	34.537	34.538	4.98	0.60	0.22	0.11	-0.01	1.699	0.863	6	222222222
23	47.6	26.524	26.513	22.528	30.804	38.727	34.540	34.536	4.89	0.70	0.22	0.11	-0.01	1.729	0.862	47	222222222
22	96.8	18.847	18.830	24.925	33.413	41.536	34.816	34.813	4.02	3.93	0.59	4.85	0.15	1.890	0.921	96	222222222
21	147.1	13.160	13.139	26.037	34.728	43.039	34.576	34.579	1.32	21.45	2.08	27.31	-0.01	0.709	0.323	146	222222222
20	195.8	11.144	11.120	26.503	35.272	43.657	34.677	34.670	0.82	29.50	2.42	33.10	0.00	0.219	0.106	194	222222222
19	246.9	10.612	10.582	26.614	35.405	43.810	34.696	34.693	0.49	31.82	2.56	35.20	0.00	0.081	0.036	245	222222222
18	296.7	10.223	10.188	26.679	35.486	43.907	34.691	34.688	0.61	32.82	2.57	35.70	0.00	0.063	0.036	294	222222222
17	398.0	9.439	9.394	26.788	35.630	44.083	34.660	34.660	0.61	36.85	2.66	36.90	0.00	0.039		395	222222225
16	497.2	8.309	8.257	26.923	35.815	44.316	34.603	34.602	0.51	46.92	2.90	38.70	0.00	0.009		493	222222225
15	598.9	7.417	7.358	27.027	35.961	44.500	34.567	34.567	0.47	56.39	3.06	40.30	0.00	0.007		594	222222225
14	797.7	5.917	5.846	27.207	36.213	44.820	34.538	34.533	0.96	73.20	3.08	42.40	0.00	0.011	0.018	791	222222222
13	998.6	4.745	4.663	27.353	36.417	45.078	34.545	34.545	1.21	92.33	3.12	43.00	0.00	-0.003	0.011	990	222222222
11	1497.3	3.013	2.905	27.575	36.729	45.476	34.600	34.600	1.90	129.29	3.03	42.00	0.00			1483	222222255
10	2002.1	2.178	2.039	27.681	36.882	45.672	34.641	34.639	2.40	148.62	2.89	40.70	0.00			1981	222222255
9	2500.2	1.893	1.715	27.721	36.939	45.745	34.659	34.659	2.68	154.36	2.80	39.80	0.00			2471	222222255
8	3002.4	1.658	1.438	27.752	36.986	45.806	34.673	34.673	3.08	155.57	2.69	39.00	0.00			2964	222222255
7	3251.2	1.595	1.352	27.763	37.001	45.826	34.679	34.677	3.23	154.26	2.65	38.50	0.00			3208	222222255
6	3503.6	1.536	1.269	27.771	37.014	45.844	34.682	34.682	3.41	152.14	2.63	38.00	0.00			3455	222222255
5	3753.0	1.482	1.190	27.779	37.026	45.859	34.684	34.685	3.60	148.62	2.58	37.50	0.00			3699	222222255
4	4003.4	1.376	1.060	27.793	37.047	45.888	34.690	34.691	3.87	144.19	2.52	36.50	0.00			3943	222222255
3	4202.4	1.299	0.964	27.803	37.063	45.909	34.696	34.696	4.10	138.15	2.45	35.70	0.00	-0.005	0.006	4137	222222222
2	4399.6	1.299	0.942	27.805	37.066	45.913	34.696	34.696	4.17	136.43	2.43	35.50	0.00	-0.004	0.007	4330	222222222
1	4397.9	1.299	0.942	27.805	37.066	45.913	34.696	34.697	4.15	136.64	2.44	35.50	0.00			4328	222222255

CRUISE: MW 893 STA: 117 DATE (D/M/Y): 21- 3-89 TIME: 0200 LAT: 9 29.78 N LONG: 162 50.13 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24062E-04 1/S SOUND SPEED= 1503.9 M/S Depth= 4762 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 ,10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.363	34.237	5.24	26.363	22.346	30.630	38.560	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
3	26.363	34.237	5.24	26.362	22.347	30.630	38.560	0.016	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.292	34.247	4.93	26.288	22.377	30.662	38.594	0.110	0.1	-4.84	1.833	68.15	3.016	20.0
30	26.277	34.259	4.90	26.270	22.392	30.677	38.609	0.164	0.3	-0.51	0.817	18.28	1.562	30.0
40	26.278	34.281	4.94	26.269	22.409	30.694	38.626	0.219	0.4	2.12	8.421	133.73	4.225	40.0
50	26.306	34.394	4.88	26.295	22.486	30.769	38.699	0.273	0.7	-2.02	4.423	93.37	3.530	50.0
100	20.130	34.807	4.55	20.112	24.586	33.035	41.120	0.511	2.5	-209.66	-1.415	1292.95	13.136	99.9
125	15.370	34.539	3.06	15.351	25.540	34.149	42.385	0.584	3.3	-171.98	-6.159	827.53	10.509	124.9
150	12.720	34.555	1.18	12.700	26.109	34.816	43.144	0.638	4.1	-27.75	5.166	221.37	5.435	149.8
200	11.188	34.718	0.35	11.163	26.527	35.293	43.676	0.724	5.6	-24.84	0.256	113.63	3.894	199.5
250	10.371	34.699	0.46	10.342	26.658	35.459	43.873	0.798	7.3	-7.39	-0.138	28.72	1.958	249.3
300	10.054	34.689	0.55	10.019	26.707	35.521	43.948	0.869	9.3	-7.35	-0.287	25.34	1.839	299.0
350	9.642	34.675	0.55	9.602	26.766	35.598	44.042	0.937	11.5	-7.37	-0.277	25.08	1.830	348.7
400	9.158	34.649	0.40	9.113	26.826	35.679	44.144	1.004	14.1	-11.22	-0.652	32.93	2.096	398.4
450	8.834	34.637	0.40	8.785	26.869	35.737	44.215	1.068	16.8	-7.69	-0.460	21.74	1.703	448.1
500	8.231	34.597	0.50	8.178	26.931	35.827	44.330	1.130	19.9	-11.07	-0.620	30.97	2.033	497.7
600	7.411	34.569	0.47	7.352	27.030	35.964	44.504	1.247	26.4	-11.84	-0.276	38.28	2.260	597.0
700	6.466	34.544	0.64	6.401	27.140	36.119	44.701	1.353	33.4	-8.24	-0.175	25.40	1.841	696.3
800	5.700	34.544	0.69	5.630	27.239	36.255	44.872	1.450	40.9	-6.91	-0.056	21.79	1.705	795.4
900	5.011	34.541	1.09	4.937	27.318	36.369	45.018	1.539	48.6	-4.79	0.074	16.92	1.503	894.6
1000	4.562	34.551	1.25	4.482	27.377	36.451	45.121	1.622	56.6	-4.87	0.073	16.71	1.493	993.6
1200	3.752	34.574	1.53	3.661	27.482	36.597	45.306	1.772	73.4	-3.35	0.094	12.06	1.269	1191.6
1400	3.177	34.594	1.81	3.075	27.554	36.700	45.438	1.905	91.0	-3.23	0.126	12.17	1.275	1389.4
1600	2.805	34.609	2.01	2.691	27.601	36.766	45.523	2.025	109.3	-1.45	0.083	5.91	0.888	1587.0
1800	2.534	34.622	2.15	2.407	27.636	36.817	45.588	2.138	129.0	-1.29	0.056	4.99	0.816	1784.4
2000	2.217	34.639	2.36	2.077	27.676	36.875	45.663	2.246	149.8	-1.59	0.086	6.58	0.937	1981.6
2200	1.994	34.653	2.55	1.840	27.706	36.918	45.717	2.346	171.2	-0.88	0.047	3.68	0.701	2178.6
2400	1.864	34.660	2.70	1.695	27.723	36.943	45.750	2.441	193.6	-0.59	0.032	2.52	0.580	2375.4
2600	1.806	34.665	2.77	1.620	27.732	36.956	45.767	2.535	217.6	-0.36	0.012	1.42	0.436	2572.0
2800	1.742	34.669	2.89	1.539	27.741	36.970	45.785	2.628	243.2	-0.31	0.016	1.35	0.425	2768.5
3000	1.697	34.671	2.99	1.475	27.748	36.980	45.798	2.721	270.6	-0.38	0.016	1.68	0.473	2964.8
3200	1.629	34.675	3.12	1.390	27.758	36.994	45.817	2.813	299.7	-0.57	0.026	2.57	0.585	3160.9
3400	1.551	34.680	3.32	1.294	27.768	37.010	45.838	2.903	330.1	-0.45	0.015	1.98	0.514	3356.8
3600	1.494	34.682	3.46	1.218	27.775	37.021	45.853	2.992	361.7	-0.32	0.016	1.53	0.452	3552.6
3800	1.443	34.686	3.62	1.147	27.783	37.033	45.869	3.080	394.9	-0.43	0.021	2.06	0.524	3748.1
4000	1.388	34.690	3.81	1.072	27.792	37.046	45.885	3.166	429.4	-0.33	0.021	1.73	0.481	3943.5
4200	1.341	34.693	4.00	1.004	27.799	37.057	45.900	3.252	465.2	-0.32	0.018	1.65	0.470	4138.8
4400	1.308	34.696	4.16	0.950	27.805	37.065	45.912	3.337	502.4	-0.22	0.012	1.18	0.397	4333.8
4600	1.309	34.698	4.24	0.929	27.807	37.069	45.916	3.421	541.2	-0.08	0.005	0.42	0.236	4528.7
4800	1.313	34.699	4.30	0.909	27.809	37.072	45.921	3.507	582.3	-0.07	0.005	0.42	0.000	4723.4
4841	1.318	34.699	4.29	0.909	27.809	37.073	45.921	3.525	591.0	-0.05	0.003	0.42	0.000	4763.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	26.278	26.277	22.352	30.638	38.570	34.208	34.202	5.00	0.70	0.24	0.00	0.00			7	222222255
23	48.1	26.268	26.258	22.524	30.808	38.738	34.429	34.425	4.99	0.70	0.27	0.00	0.00			47	222222255
22	97.1	17.184	17.167	25.190	33.735	41.911	34.628	34.639	3.81	5.74	0.78	7.38	0.32			96	222222255
21	146.5	12.660	12.640	26.124	34.834	43.163	34.560	34.535	1.50	21.65	2.07	26.80	0.00			145	222222255
20	196.5	11.171	11.147	26.526	35.293	43.676	34.713	34.716	0.38	30.01	2.56	35.10	0.00			195	222222255
19	247.0	10.341	10.312	26.662	35.464	43.880	34.697	34.695	0.49	33.03	2.59	35.90	0.00			245	222222255
18	297.6	9.901	9.867	26.727	35.548	43.981	34.682	34.683	0.69	34.23	2.59	36.10	0.00			295	222222255
17	398.1	8.983	8.940	26.848	35.710	44.181	34.643	34.639	0.42	41.28	2.81	38.10	0.00			395	222222255
16	497.0	7.940	7.890	26.964	35.873	44.389	34.584	34.585	0.51	50.55	2.97	39.30	0.00			493	222222255
15	596.2	6.972	6.916	27.079	36.033	44.592	34.554	34.555	0.51	60.51	3.10	41.30	0.00			591	222222255
14	802.9	5.693	5.623	27.241	36.257	44.874	34.546	34.540	0.74	76.22	3.19	43.70	0.00			796	222222255
13	997.2	4.558	4.478	27.377	36.451	45.121	34.550	34.549	1.25	96.36	3.13	43.40	0.00			989	222222255
12	1195.6	3.774	3.684	27.475	36.588	45.297	34.568	34.573	1.50	112.87	3.12	43.10	0.00			1185	222222255
11	1513.0	2.906	2.798	27.587	36.747	45.499	34.604	34.603	1.89	130.80	3.03	42.00	0.00			1499	222222255
10	1987.9	2.239	2.100	27.673	36.870	45.657	34.637	34.638	2.35	147.51	2.91	40.90	0.00			1967	222222255
9	2498.2	1.828	1.651	27.729	36.951	45.760	34.663	34.663	2.79	156.07	2.81	39.80	0.00			2469	222222255
8	3001.0	1.697	1.476	27.748	36.980	45.798	34.671	34.676	3.01	156.27	2.73	39.10	0.00			2962	222222255
7	3501.4	1.519	1.252	27.772	37.016	45.846	34.681	34.682	3.40	153.45	2.65	37.90	0.00			3453	222222255
6	4002.4	1.382	1.066	27.792	37.047	45.887	34.691	34.694	3.84	144.59	2.54	36.50	0.00			3942	222222255
5	4254.1	1.323	0.981	27.800	37.059	45.903	34.693	34.696	4.07	139.76	2.48	35.90	0.00			4188	222222255
4	4503.3	1.302	0.933	27.806	37.067	45.914	34.696	34.698	4.19							4431	222555555
3	4503.3	1.302	0.933	27.806	37.067	45.914	34.696	34.699	4.19	135.93	2.45	35.40	0.00	-0.011	0.013	4431	222222222
2	4843.1	1.318	0.909	27.809	37.072	45.920	34.698	34.700	4.29	134.12	2.44	35.20	0.00			4761	222222255
1	4843.1	1.318	0.909	27.809	37.072	45.920	34.698	34.699		134.22	2.44	35.20	0.00			4761	225222255

CRUISE: MW 893 STA: 118 DATE (D/M/Y): 21- 3-89 TIME: 1010 LAT: 9 29.79 N LONG: 162 0.30 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24062E-04 1/S SOUND SPEED= 1497.6 M/S Depth= 3729 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.297	34.245	5.26	26.297	22.373	30.658	38.590	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
3	26.297	34.245	5.26	26.296	22.374	30.658	38.590	0.016	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.307	34.239	5.16	26.302	22.367	30.652	38.583	0.109	0.1	-0.04	0.033	0.89	0.345	20.0
30	26.310	34.239	5.06	26.304	22.367	30.652	38.583	0.164	0.3	-0.16	0.008	1.29	0.415	30.0
40	26.312	34.241	5.02	26.303	22.368	30.653	38.584	0.219	0.4	0.30	0.624	8.83	1.085	40.0
50	26.319	34.254	5.02	26.307	22.376	30.661	38.592	0.274	0.7	0.11	2.747	47.89	2.528	50.0
100	20.319	34.816	4.74	20.300	24.543	32.986	41.066	0.508	2.4	-182.94	-3.703	1061.88	11.904	99.9
125	15.239	34.535	3.18	15.220	25.566	34.180	42.420	0.581	3.3	-137.17	-7.595	635.71	9.211	124.9
150	13.302	34.475	1.82	13.282	25.930	34.617	42.924	0.638	4.1	-74.10	2.219	397.32	7.282	149.8
200	11.582	34.692	0.28	11.557	26.434	35.185	43.553	0.728	5.7	-15.93	1.985	107.62	3.790	199.5
250	10.635	34.706	0.44	10.605	26.617	35.407	43.811	0.805	7.4	-20.39	-0.495	78.28	3.232	249.3
300	10.000	34.691	0.37	9.965	26.717	35.534	43.963	0.876	9.4	-6.82	-0.210	24.47	1.807	299.0
350	9.476	34.659	0.39	9.436	26.781	35.620	44.071	0.944	11.7	-14.25	-1.003	39.48	2.295	348.7
400	8.988	34.636	0.43	8.944	26.842	35.704	44.175	1.010	14.2	-10.26	-0.270	35.53	2.178	398.4
450	8.479	34.609	0.43	8.432	26.902	35.786	44.279	1.072	16.9	-10.32	-0.708	26.61	1.884	448.1
500	7.881	34.569	0.77	7.830	26.961	35.873	44.392	1.132	19.8	-9.51	-0.452	27.07	1.901	497.7
600	7.059	34.542	1.00	7.001	27.058	36.009	44.564	1.245	26.1	-6.13	-0.012	21.61	1.698	597.0
700	6.300	34.544	0.58	6.236	27.162	36.149	44.738	1.350	33.1	-7.72	-0.029	26.18	1.869	696.3
800	5.726	34.541	0.74	5.656	27.233	36.248	44.864	1.447	40.5	-5.49	0.147	21.04	1.676	795.4
900	5.080	34.550	0.85	5.005	27.318	36.365	45.010	1.537	48.2	-5.41	0.125	20.07	1.637	894.6
1000	4.772	34.556	1.00	4.690	27.358	36.421	45.081	1.620	56.3	-2.61	0.030	8.79	1.083	993.6
1200	3.769	34.573	1.50	3.678	27.479	36.594	45.302	1.772	73.3	-2.98	0.094	10.94	1.209	1191.6
1400	3.254	34.590	1.74	3.152	27.544	36.686	45.420	1.907	91.2	-2.98	0.101	10.99	1.211	1389.4
1600	2.721	34.611	1.99	2.608	27.610	36.780	45.541	2.029	109.8	-2.64	0.113	10.10	1.161	1587.0
1800	2.314	34.630	2.22	2.189	27.660	36.853	45.635	2.138	128.8	-1.46	0.074	5.84	0.883	1784.4
2000	2.143	34.640	2.40	2.005	27.683	36.886	45.677	2.241	148.7	-0.78	0.044	3.24	0.658	1981.6
2200	1.968	34.652	2.57	1.815	27.708	36.921	45.722	2.340	169.9	-0.87	0.053	3.77	0.709	2178.6
2400	1.875	34.659	2.67	1.706	27.721	36.940	45.747	2.436	192.3	-0.41	0.023	1.78	0.487	2375.4
2600	1.816	34.663	2.76	1.630	27.730	36.954	45.764	2.530	216.3	-0.43	0.022	1.88	0.500	2572.0
2800	1.734	34.668	2.90	1.531	27.742	36.970	45.786	2.623	242.0	-0.46	0.023	2.04	0.522	2768.5
3000	1.673	34.672	3.01	1.453	27.750	36.983	45.803	2.715	269.2	-0.36	0.018	1.64	0.468	2964.8
3200	1.624	34.676	3.14	1.385	27.758	36.995	45.818	2.806	298.1	-0.43	0.020	1.94	0.509	3160.9
3400	1.562	34.679	3.28	1.304	27.767	37.008	45.835	2.897	328.4	-0.38	0.017	1.74	0.482	3356.8
3600	1.496	34.683	3.47	1.220	27.776	37.022	45.854	2.986	360.2	-0.43	0.021	2.02	0.520	3552.6
3800	1.455	34.686	3.56	1.159	27.783	37.032	45.867	3.074	393.4	-0.22	0.012	2.02	0.000	3748.1
3815	1.452	34.686	3.59	1.155	27.783	37.032	45.868	3.080	395.9	-0.24	0.012	2.02	0.000	3762.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.2	26.236	26.236	22.381	30.668	38.601	34.230	34.229	5.11	0.70	0.30	0.00	0.00			4	222222255
23	48.4	24.109	24.099	23.285	31.623	39.604	34.566		5.14	0.81	0.30	0.00	0.00			48	252222255
22	98.8	18.844	18.826	24.892	33.381	41.504	34.772	34.788	4.41	3.12	0.52	3.57	0.13			98	222222255
21	148.5	13.260	13.239	25.940	34.628	42.937	34.477	34.486	1.93	17.92	1.82	23.40	0.00			147	222222255
20	196.5	11.552	11.527	26.445	35.197	43.566	34.699	34.699	0.23	29.00	2.56	34.20	0.00			195	222222255
19	241.4	10.817	10.788	26.587	35.369	43.766	34.709	34.711	0.39	30.91	2.57	35.30	0.00			239	222222255
18	296.9	10.107	10.072	26.706	35.518	43.943	34.700	34.697	0.37	33.43	2.63	36.40	0.00			295	222222255
17	397.4	9.052	9.009	26.833	35.691	44.160	34.637	34.635	0.44	40.07	2.76	37.90	0.00			394	222222255
16	493.0	8.041	7.991	26.947	35.851	44.363	34.582	34.580	0.61	48.53	2.87	38.80	0.00			489	222222255
15	596.7	7.022	6.965	27.061	36.013	44.570	34.540	34.550	1.02	57.90	2.89	39.70	0.00			592	222222255
14	798.2	5.684	5.614	27.239	36.256	44.874	34.542	34.545	0.69	76.42	3.18	43.90	0.00			792	222222255
13	996.0	4.750	4.669	27.361	36.425	45.086	34.556	34.564	0.94	92.03	3.22	44.40	0.00			988	222222255
12	1249.1	3.722	3.628	27.486	36.603	45.314	34.575	34.575	1.49	111.87	3.09	42.90	0.00			1238	222222255
11	1497.0	3.080	2.971	27.565	36.716	45.459	34.596	34.597	1.77	127.78	3.02	42.30	0.00			1483	222222255
10	1796.4	2.363	2.238	27.655	36.845	45.625	34.629	34.631	2.20	144.29	2.94	41.30	0.00			1778	222222255
9	1999.7	2.172	2.033	27.679	36.880	45.670	34.638	34.640	2.35	148.32	2.88	40.70	0.00			1978	222222255
8	2249.6	1.943	1.786	27.711	36.926	45.728	34.654	34.657	2.56	152.65	2.83	40.10	0.00			2224	222222255
7	2500.5	1.845	1.668	27.726	36.947	45.756	34.661	34.664	2.72	154.06	2.81	39.80	0.00			2471	222222255
6	2753.2	1.762	1.563	27.738	36.965	45.779	34.666	34.669	2.86	154.86	2.77	39.50	0.00			2719	222222255
5	3003.9	1.678	1.457	27.750	36.982	45.802	34.672		3.00	155.16	2.69	39.00	0.00			2965	252222255
4	3252.3	1.612	1.368	27.761	36.998	45.822	34.677	34.677	3.14	154.06	2.67	38.60	0.00			3209	222222255
3	3505.8	1.518	1.251	27.773	37.017	45.847	34.683	34.686	3.39	151.14	2.62	37.90	0.00			3457	222222255
2	3819.1	1.448	1.150	27.782	37.032	45.868	34.685	34.688	3.58	147.50	2.57	37.20	0.00			3763	222222255
1	3818.2	1.451	1.153	27.783	37.032	45.868	34.686	34.690	3.56	147.51	2.58	37.20	0.00			3762	222222255

CRUISE: MW 893 STA: 119 DATE (D/M/Y): 21- 3-89 TIME: 1800 LAT: 9 29.93 N LONG: 161 10.38 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1504.8 M/S Depth= 4885 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.414	34.390	5.20	26.414	22.446	30.726	38.653	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.414	34.390	5.20	26.413	22.446	30.726	38.653	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.427	34.395	4.95	26.423	22.446	30.727	38.653	0.108	0.1	0.21	-0.086	-3.08	-0.641	20.0
30	26.429	34.394	5.05	26.423	22.446	30.726	38.653	0.162	0.2	-0.16	-0.007	1.08	0.379	30.0
40	26.431	34.394	4.98	26.422	22.446	30.726	38.653	0.216	0.4	-0.90	0.007	6.76	0.950	40.0
50	26.354	34.393	4.79	26.343	22.471	30.753	38.681	0.270	0.7	-105.82	6.143	885.33	10.868	50.0
100	20.558	34.953	4.64	20.540	24.584	33.018	41.090	0.474	2.2	-107.22	-6.888	554.81	8.604	99.9
125	17.971	34.710	4.04	17.950	25.064	33.582	41.732	0.553	3.1	-177.89	-13.256	717.56	9.785	124.8
150	12.904	34.487	1.45	12.883	26.019	34.720	43.042	0.614	4.0	-93.44	4.175	569.40	8.716	149.7
200	11.463	34.698	0.41	11.438	26.461	35.216	43.588	0.702	5.5	-24.66	0.939	126.03	4.101	199.5
250	10.600	34.698	0.39	10.570	26.618	35.409	43.815	0.778	7.3	-11.23	-0.212	43.74	2.416	249.2
300	9.918	34.678	0.45	9.883	26.720	35.541	43.974	0.849	9.3	-7.97	-0.318	27.17	1.904	299.0
350	9.566	34.664	0.40	9.527	26.769	35.605	44.052	0.917	11.5	-8.60	-0.333	28.88	1.963	348.7
400	9.176	34.650	0.35	9.131	26.823	35.676	44.140	0.983	14.0	-5.28	-0.310	15.38	1.433	398.4
450	8.802	34.625	0.42	8.754	26.864	35.734	44.213	1.047	16.8	-8.61	-0.477	25.06	1.829	448.0
500	8.265	34.592	0.53	8.213	26.922	35.816	44.319	1.110	19.8	-11.64	-0.640	32.74	2.090	497.7
600	7.129	34.539	0.75	7.071	27.046	35.993	44.546	1.226	26.3	-10.03	-0.312	30.41	2.014	597.0
700	6.167	34.528	0.62	6.104	27.167	36.160	44.755	1.331	33.3	-8.88	-0.095	28.76	1.959	696.2
800	5.559	34.537	0.97	5.490	27.251	36.274	44.897	1.426	40.6	-6.23	0.061	21.82	1.706	795.4
900	4.931	34.536	0.93	4.857	27.324	36.378	45.031	1.515	48.3	-5.69	0.122	20.52	1.655	894.5
1000	4.466	34.552	1.31	4.387	27.389	36.467	45.142	1.596	56.2	-4.57	0.116	16.39	1.479	993.6
1200	3.692	34.575	1.55	3.602	27.489	36.607	45.319	1.743	72.6	-2.97	0.077	10.53	1.185	1191.6
1400	3.195	34.591	1.76	3.094	27.550	36.695	45.432	1.876	90.2	-2.39	0.081	8.72	1.078	1389.4
1600	2.771	34.607	1.99	2.658	27.602	36.770	45.529	1.997	108.7	-1.85	0.082	7.13	0.975	1586.9
1800	2.400	34.625	2.20	2.274	27.649	36.837	45.615	2.109	128.2	-1.79	0.086	7.09	0.973	1784.3
2000	2.163	34.638	2.37	2.024	27.680	36.882	45.672	2.213	148.3	-0.83	0.047	3.43	0.677	1981.5
2200	2.025	34.648	2.49	1.871	27.700	36.910	45.708	2.314	169.8	-0.76	0.047	3.30	0.664	2178.5
2400	1.906	34.657	2.65	1.736	27.717	36.934	45.740	2.410	192.5	-0.51	0.029	2.20	0.541	2375.4
2600	1.792	34.664	2.79	1.606	27.733	36.957	45.769	2.505	216.7	-0.59	0.032	2.61	0.590	2572.0
2800	1.746	34.667	2.84	1.542	27.740	36.968	45.783	2.598	242.3	-0.37	0.018	1.63	0.467	2768.5
3000	1.683	34.671	2.97	1.462	27.749	36.982	45.801	2.690	269.6	-0.41	0.018	1.79	0.488	2964.7
3200	1.615	34.676	3.10	1.376	27.759	36.996	45.820	2.782	298.5	-0.42	0.021	1.91	0.505	3160.9
3400	1.564	34.679	3.27	1.306	27.766	37.007	45.835	2.872	328.8	-0.37	0.017	1.70	0.476	3356.8
3600	1.505	34.682	3.41	1.228	27.775	37.020	45.851	2.961	360.7	-0.37	0.015	1.69	0.475	3552.5
3800	1.449	34.686	3.61	1.152	27.783	37.032	45.868	3.050	394.0	-0.36	0.016	1.70	0.476	3748.1
4000	1.394	34.689	3.77	1.078	27.790	37.044	45.883	3.137	428.6	-0.38	0.023	1.95	0.510	3943.5
4200	1.358	34.692	3.96	1.021	27.797	37.053	45.896	3.223	464.6	-0.24	0.011	1.19	0.398	4138.7
4400	1.327	34.695	4.10	0.968	27.802	37.062	45.907	3.308	502.1	-0.18	0.010	0.96	0.357	4333.8
4600	1.330	34.696	4.17	0.948	27.805	37.066	45.912	3.394	541.4	-0.08	0.006	0.46	0.248	4528.7
4800	1.341	34.697	4.23	0.936	27.806	37.068	45.915	3.480	583.0	-0.10	0.007	0.56	0.274	4723.4
4979	1.346	34.698	4.24	0.919	27.808	37.071	45.919	3.559	622.0	-0.07	0.006	0.56	0.000	4897.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
12	7.0	26.420	26.418	22.430	30.710	38.638	34.371	34.372	5.06	0.50	0.32	0.00	0.00	1.789	0.925	6	222222222
11	47.5	25.885	25.874	22.641	30.934	38.874	34.425	34.397	5.11	0.70	0.30	0.10	0.00	1.823	0.929	47	222222222
10	97.0	18.830	18.813	24.937	33.426	41.549	34.826	34.795	4.20	3.12	0.57	3.91	0.19	1.970	0.972	96	222222222
9	146.4	12.342	12.323	26.187	34.909	43.250	34.561	34.548	1.11	23.76	2.24	29.00	0.00	0.608	0.272	145	222222222
8	198.2	11.314	11.289	26.491	35.253	43.630	34.702	34.698	0.41	29.60	2.55	34.30	0.00	0.126	0.063	196	222222222
7	244.3	10.642	10.613	26.611	35.400	43.804	34.699	34.697	0.40	32.02	2.59	35.40	0.00	0.054	0.034	242	222222222
6	296.7	10.045	10.010	26.701	35.516	43.944	34.680	34.679	0.46	34.54	2.61	36.30	0.00	0.038	0.020	294	222222222
5	397.1	9.221	9.177	26.817	35.668	44.129	34.651	34.650	0.36	39.77	2.78	38.00	0.00	0.007	-0.005	394	222222222
4	496.4	8.413	8.361	26.906	35.794	44.290	34.601	34.600	0.47	45.61	2.87	38.60	0.00	0.016	-0.005	493	222222222
3	599.6	7.228	7.170	27.039	35.982	44.529	34.548	34.546	0.65	58.10	2.97	40.20	0.00	-0.011	-0.005	595	222222222
2	746.9	5.798	5.732	27.212	36.223	44.835	34.526	34.523	0.69	77.33	3.15	43.30	0.00	-0.007	-0.004	741	222222222
1	996.9	4.518	4.438	27.382	36.458	45.130	34.551	34.543	1.27	97.37	3.08	43.00	0.00	0.006	-0.004	988	222222222
24	1246.6	3.579	3.486	27.503	36.627	45.345	34.579	34.576	1.71	116.40	3.06	42.80	0.00	0.004	-0.005	1235	222222222
23	1497.7	2.955	2.848	27.580	36.737	45.487	34.600	34.599	1.87	130.80	2.99	42.30	0.00	0.004	-0.005	1483	222222222
22	1999.7	2.159	2.020	27.680	36.882	45.673	34.638	34.638	2.38	148.42	2.86	40.70	0.00	0.005	0.001	1978	222222222
21	2500.6	1.827	1.650	27.728	36.950	45.759	34.662	34.662	2.77	154.96	2.79	39.80	0.00	0.014	-0.005	2471	222222222
20	3002.2	1.661	1.441	27.752	36.986	45.806	34.673	34.672	3.00	157.28	2.72	39.10	0.00	0.007	0.012	2964	222222222
19	3503.0	1.526	1.259	27.772	37.015	45.845	34.681	34.680	3.37	153.55	2.65	37.90	0.00	0.013	0.012	3454	222222222
18	4005.4	1.379	1.063	27.791	37.046	45.886	34.689	34.690	3.81	145.50	2.55	36.70	0.00			3945	222222255
17	4254.3	1.341	0.999	27.798	37.056	45.900	34.692	34.694	4.02	141.07	2.51	36.10	0.00			4188	222222255
16	4505.2	1.326	0.956	27.803	37.063	45.909	34.694	34.696	4.13	137.84	2.47	35.70	0.00	0.012	0.008	4432	222222222
15	4745.5	1.338	0.940	27.805	37.067	45.913	34.696	34.696	4.17	135.83	2.45	35.30	0.00	0.005	0.008	4666	222222222
14	4981.9	1.346	0.919	27.808	37.070	45.918	34.697	34.699	4.23	135.43	2.44	35.30	0.00	0.004		4896	222222225
13	4980.3	1.346	0.919	27.807	37.070	45.917	34.697	34.698	4.24	135.53	2.43	35.30	0.00	0.003		4895	222222225

CRUISE: MW 893 STA: 121 DATE (D/M/Y): 9- 4-89 TIME: 1644 LAT: 9 30.82 N LONG: 161 10.13 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24105E-04 1/S SOUND SPEED= 1504.1 M/S Depth= 4913 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.582	34.510	5.22	26.582	22.484	30.758	38.680	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.582	34.510	5.22	26.582	22.484	30.758	38.680	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.608	34.517	5.00	26.604	22.482	30.756	38.677	0.107	0.1	-0.15	-0.165	-1.80	-0.490	20.0
30	26.632	34.540	4.84	26.625	22.492	30.766	38.686	0.161	0.2	0.18	3.242	56.26	2.738	30.0
40	26.612	34.553	4.90	26.603	22.509	30.783	38.704	0.214	0.4	0.49	1.147	16.69	1.491	40.0
50	26.610	34.557	4.80	26.599	22.513	30.787	38.708	0.268	0.7	-3.13	-0.113	21.29	1.684	50.0
100	20.334	34.873	4.76	20.316	24.582	33.024	41.103	0.485	2.3	-119.84	-3.400	692.67	9.606	99.9
125	17.650	34.757	4.27	17.629	25.177	33.706	41.865	0.561	3.2	-114.69	-10.499	470.41	7.916	124.8
150	14.169	34.436	3.92	14.147	25.721	34.375	42.653	0.625	4.1	-138.45	-8.719	576.69	8.765	149.7
200	11.485	34.626	0.74	11.459	26.401	35.157	43.529	0.725	5.8	-39.56	3.888	249.50	5.765	199.5
250	10.490	34.660	0.56	10.460	26.608	35.404	43.814	0.802	7.6	-10.36	0.054	45.09	2.451	249.3
300	9.968	34.656	0.64	9.933	26.695	35.514	43.945	0.875	9.6	-9.97	-0.237	37.08	2.222	299.0
350	9.502	34.644	0.64	9.463	26.765	35.603	44.054	0.943	11.9	-10.85	-0.407	36.49	2.205	348.7
400	9.023	34.617	0.75	8.980	26.822	35.682	44.152	1.009	14.4	-8.57	-0.371	27.07	1.899	398.4
450	8.583	34.612	0.57	8.535	26.888	35.767	44.256	1.073	17.2	-8.31	-0.110	30.21	2.006	448.1
500	8.007	34.579	0.81	7.956	26.950	35.856	44.370	1.134	20.1	-12.30	-0.671	34.04	2.129	497.7
600	7.043	34.546	0.76	6.985	27.064	36.015	44.571	1.248	26.5	-8.39	-0.136	27.26	1.906	597.0
700	6.123	34.530	0.79	6.060	27.173	36.169	44.766	1.351	33.4	-7.51	-0.013	25.53	1.844	696.3
800	5.432	34.532	0.76	5.364	27.261	36.291	44.920	1.446	40.6	-6.85	0.084	24.20	1.795	795.4
900	4.864	34.542	0.89	4.790	27.336	36.394	45.050	1.533	48.1	-5.32	0.132	19.46	1.610	894.6
1000	4.372	34.555	1.24	4.294	27.401	36.484	45.163	1.613	55.9	-3.88	0.173	15.40	1.432	993.6
1200	3.728	34.580	1.44	3.638	27.489	36.605	45.315	1.759	72.2	-3.13	0.067	10.78	1.199	1191.6
1400	3.084	34.598	1.77	2.983	27.566	36.716	45.459	1.890	89.6	-2.51	0.088	9.24	1.109	1389.4
1600	2.725	34.616	1.97	2.612	27.613	36.783	45.544	2.009	107.8	-1.69	0.095	6.91	0.960	1587.0
1800	2.418	34.629	2.17	2.292	27.651	36.838	45.615	2.120	127.0	-1.64	0.065	6.24	0.912	1784.3
2000	2.152	34.642	2.35	2.013	27.684	36.886	45.677	2.224	147.1	-0.97	0.054	4.05	0.735	1981.5
2200	2.025	34.651	2.49	1.871	27.702	36.912	45.710	2.323	168.5	-0.76	0.053	3.43	0.676	2178.5
2400	1.907	34.659	2.62	1.737	27.719	36.936	45.741	2.420	191.1	-0.71	0.040	3.09	0.642	2375.4
2600	1.797	34.666	2.75	1.611	27.734	36.958	45.770	2.514	215.1	-0.41	0.023	1.82	0.493	2572.0
2800	1.733	34.671	2.84	1.530	27.744	36.972	45.788	2.607	240.6	-0.47	0.020	2.00	0.516	2768.5
3000	1.653	34.675	3.00	1.433	27.754	36.988	45.809	2.698	267.6	-0.42	0.018	1.83	0.494	2964.8
3200	1.606	34.678	3.09	1.367	27.761	36.999	45.823	2.788	296.1	-0.42	0.020	1.91	0.504	3160.9
3400	1.539	34.682	3.27	1.282	27.770	37.013	45.841	2.877	326.2	-0.30	0.013	1.39	0.430	3356.8
3600	1.502	34.684	3.40	1.225	27.776	37.022	45.854	2.966	357.8	-0.32	0.018	1.58	0.459	3552.5
3800	1.453	34.688	3.56	1.157	27.784	37.033	45.868	3.054	391.0	-0.39	0.021	1.94	0.508	3748.1
4000	1.404	34.691	3.74	1.088	27.791	37.044	45.883	3.141	425.6	-0.43	0.024	2.17	0.538	3943.5
4200	1.355	34.695	3.97	1.018	27.799	37.056	45.899	3.227	461.4	-0.24	0.010	1.20	0.400	4138.7
4400	1.343	34.697	4.06	0.984	27.803	37.062	45.906	3.312	498.8	-0.14	0.005	0.68	0.302	4333.8
4600	1.343	34.698	4.14	0.961	27.805	37.065	45.911	3.398	538.2	-0.10	0.005	0.54	0.267	4528.7
4800	1.353	34.699	4.19	0.947	27.807	37.068	45.914	3.484	579.8	-0.04	0.004	0.54	0.000	4723.4
4877	1.359	34.699	4.20	0.945	27.807	37.068	45.914	3.518	596.5	-0.03	0.004	0.54	0.000	4798.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	95.9	20.888	20.870	24.447	32.872	40.935	34.891	34.903	4.81	1.73	0.32	0.10	0.00	2.028	1.073	95	222222222
23	1495.4	2.894	2.788	27.590	36.751	45.503	34.606	34.605	1.86	132.86	3.09	42.20	0.00	0.009		1481	222222225
22	2000.7	2.194	2.055	27.678	36.878	45.667	34.639	34.638	2.34	148.39	2.96	40.80	0.00	0.002		1979	222222225
21	2502.2	1.867	1.689	27.725	36.945	45.752	34.662	34.662	2.68	155.19	2.87	39.90	0.00	0.007		2473	222222225
20	3002.5	1.671	1.450	27.752	36.985	45.805	34.674	34.673	2.97	157.32	2.79	39.10	0.00	-0.001	0.015	2964	222222222
19	3001.9	1.671	1.450	27.753	36.985	45.805	34.674	34.672	2.99	157.12	2.79	39.10	0.00	0.001		2963	222222225
18	3001.1	1.671	1.451	27.752	36.985	45.805	34.674	34.674	2.98	157.32	2.80	39.10	0.00	0.001		2963	222222225
17	3001.8	1.670	1.449	27.754	36.986	45.806	34.676	34.674	2.98	156.92	2.78	39.10	0.00	-0.002		2963	222222225
16	3499.1	1.526	1.260	27.774	37.017	45.847	34.684	34.682	3.35	154.28	2.70	37.90	0.00			3450	222222255
15	3499.0	1.526	1.260	27.774	37.017	45.847	34.684	34.682	3.34	154.28	2.71	37.90	0.00	-0.001		3450	222222225
14	3501.2	1.526	1.259	27.773	37.016	45.846	34.683	34.682	3.34	154.08	2.70	37.90	0.00			3452	222222255
13	3499.5	1.526	1.259	27.772	37.016	45.846	34.682	34.683	3.35	154.08	2.70	37.90	0.00	0.003	0.015	3451	222222222
12	4006.5	1.413	1.096	27.790	37.042	45.881	34.690	34.690	3.72	147.07	2.60	36.80	0.00	0.005		3946	222222225
11	4005.4	1.414	1.097	27.790	37.043	45.881	34.690	34.689	3.73	147.07	2.60	36.80	0.00	0.000		3945	222222255
9	4005.9	1.412	1.095	27.790	37.042	45.881	34.690	34.689	3.77	147.28	2.60	36.80	0.00			3946	222222255
8	4509.0	1.339	0.968	27.804	37.064	45.909	34.697		4.11	138.45	2.52	35.60	0.00	-0.002	-0.001	4436	252222222
7	4508.2	1.338	0.967	27.804	37.064	45.909	34.697	34.697	4.10	138.45	2.52	35.60	0.00			4435	222222255
6	4507.4	1.339	0.968	27.804	37.064	45.909	34.697	34.697	4.18	138.65	2.55	35.70	0.00	0.001	-0.004	4435	222222222
5	4506.7	1.338	0.967	27.804	37.064	45.909	34.697	34.696	4.11	138.45	2.51	35.70	0.00			4434	222222255
4	4881.0	1.360	0.945	27.805	37.067	45.913	34.697	34.698	4.16	136.72	2.50	35.50	0.00		-0.005	4798	222222252
3	4879.5	1.360	0.945	27.806	37.067	45.913	34.697	34.698	4.14	136.72	2.49	35.50	0.00			4797	222222255
2	4879.9	1.360	0.945	27.806	37.067	45.913	34.697	34.699	4.26	136.92	2.50	35.50	0.00	-0.002	-0.004	4797	222222222
1	4878.9	1.359	0.944	27.806	37.067	45.914	34.698	34.700	4.17	136.82	2.50	35.50	0.00	0.005		4796	222222225

CRUISE: MW 893 STA: 122 DATE (D/M/Y): 10- 4-89 TIME: 0119 LAT: 9 29.94 N LONG: 160 20.28 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1504.7 M/S Depth= 4985 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.764	34.577	5.02	26.764	22.476	30.746	38.663	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.764	34.577	5.02	26.764	22.476	30.746	38.663	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.774	34.592	4.89	26.769	22.486	30.755	38.672	0.107	0.1	-7.78	3.242	115.56	3.926	20.0
30	26.718	34.613	4.97	26.712	22.520	30.790	38.708	0.161	0.2	-1.55	-0.037	10.90	1.206	30.0
40	26.705	34.611	4.93	26.696	22.524	30.795	38.713	0.214	0.4	-1.10	0.001	8.25	1.049	40.0
50	26.699	34.611	4.86	26.688	22.526	30.797	38.716	0.267	0.7	0.46	0.395	3.60	0.693	50.0
100	20.595	34.973	4.59	20.576	24.589	33.022	41.092	0.501	2.4	-210.96	-8.680	1166.81	12.477	99.9
125	15.370	34.528	3.50	15.351	25.531	34.141	42.376	0.573	3.2	-115.60	-8.797	509.25	8.243	124.8
150	13.301	34.475	2.58	13.280	25.930	34.616	42.924	0.632	4.1	-118.02	2.168	621.79	9.108	149.7
200	11.303	34.693	0.75	11.278	26.486	35.248	43.627	0.720	5.6	-21.15	0.653	105.80	3.757	199.5
250	10.667	34.705	0.59	10.637	26.611	35.399	43.802	0.797	7.4	-12.22	0.194	55.96	2.732	249.3
300	10.032	34.690	0.54	9.997	26.711	35.526	43.954	0.869	9.4	-13.75	-0.474	48.42	2.542	299.0
350	9.479	34.668	0.46	9.439	26.787	35.626	44.077	0.937	11.7	-9.84	-0.390	32.69	2.089	348.7
400	9.073	34.644	0.45	9.029	26.835	35.693	44.161	1.002	14.2	-9.92	-0.573	28.83	1.961	398.4
450	8.603	34.623	0.36	8.555	26.893	35.772	44.260	1.065	16.9	-10.29	-0.468	31.23	2.041	448.1
500	7.903	34.581	0.47	7.852	26.967	35.878	44.396	1.125	19.8	-12.31	-0.672	33.77	2.123	497.7
600	6.908	34.541	0.70	6.851	27.078	36.036	44.597	1.237	26.1	-7.87	-0.002	27.85	1.928	597.0
700	6.056	34.538	0.73	5.994	27.188	36.187	44.787	1.339	32.8	-7.51	-0.002	25.26	1.836	696.2
800	5.432	34.542	0.85	5.364	27.270	36.299	44.928	1.432	39.9	-6.14	-0.076	18.65	1.577	795.4
900	4.833	34.541	0.97	4.759	27.339	36.398	45.055	1.518	47.4	-4.29	0.104	15.67	1.446	894.5
1000	4.396	34.552	1.12	4.317	27.397	36.478	45.156	1.599	55.2	-3.61	0.064	12.67	1.300	993.6
1200	3.705	34.578	1.53	3.615	27.489	36.607	45.318	1.747	71.8	-3.23	0.099	11.70	1.249	1191.6
1400	3.129	34.597	1.77	3.028	27.561	36.709	45.449	1.878	89.2	-2.22	0.100	8.59	1.070	1389.4
1600	2.731	34.611	1.97	2.618	27.609	36.779	45.539	1.999	107.5	-1.97	0.083	7.52	1.002	1586.9
1800	2.364	34.630	2.24	2.239	27.656	36.846	45.626	2.109	126.7	-1.52	0.076	6.10	0.902	1784.3
2000	2.153	34.642	2.40	2.014	27.684	36.886	45.677	2.213	146.8	-0.99	0.053	4.07	0.737	1981.5
2200	2.003	34.652	2.52	1.849	27.705	36.916	45.715	2.312	168.0	-0.75	0.047	3.30	0.663	2178.5
2400	1.910	34.659	2.64	1.740	27.719	36.936	45.741	2.409	190.7	-0.56	0.034	2.47	0.574	2375.4
2600	1.835	34.665	2.72	1.649	27.730	36.952	45.762	2.503	214.8	-0.35	0.017	1.50	0.447	2572.0
2800	1.773	34.669	2.81	1.569	27.739	36.966	45.779	2.597	240.7	-0.51	0.028	2.29	0.552	2768.5
3000	1.695	34.674	2.93	1.474	27.750	36.982	45.800	2.690	268.1	-0.40	0.019	1.77	0.486	2964.7
3200	1.630	34.677	3.06	1.391	27.759	36.995	45.818	2.781	297.0	-0.52	0.022	2.31	0.555	3160.9
3400	1.542	34.682	3.27	1.284	27.770	37.013	45.841	2.871	327.2	-0.36	0.016	1.66	0.471	3356.8
3600	1.505	34.684	3.40	1.228	27.776	37.021	45.853	2.960	358.9	-0.39	0.018	1.84	0.495	3552.5
3800	1.450	34.688	3.59	1.154	27.784	37.034	45.869	3.047	391.9	-0.25	0.011	1.17	0.395	3748.1
4000	1.414	34.691	3.73	1.098	27.790	37.043	45.881	3.134	426.5	-0.22	0.011	1.10	0.383	3943.5
4200	1.374	34.694	3.88	1.037	27.797	37.053	45.895	3.221	462.7	-0.32	0.014	1.61	0.464	4138.7
4400	1.336	34.697	4.03	0.978	27.803	37.062	45.907	3.307	500.3	-0.26	0.013	1.33	0.421	4333.8
4600	1.328	34.698	4.13	0.946	27.806	37.067	45.913	3.392	539.5	-0.08	0.003	0.41	0.234	4528.7
4800	1.339	34.699	4.16	0.934	27.808	37.069	45.916	3.478	580.9	-0.08	0.005	0.45	0.244	4723.4
4975	1.344	34.699	4.20	0.918	27.809	37.072	45.920	3.555	619.0	-0.09	0.002	0.45	0.000	4893.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.6	26.758	26.757	22.446	30.717	38.634	34.534	34.527	5.00	0.10	0.24	0.00	0.00	1.688	0.882	6	222222222
23	48.0	26.715	26.704	22.531	30.802	38.720	34.625	34.624	4.84	0.20	0.27	0.10	0.00	1.716	0.887	47	222222222
22	98.5	20.912	20.894	24.538	32.961	41.022	35.019	35.005	4.72	0.51	0.27	0.30	0.00	2.021	1.022	97	222222222
21	146.9	13.242	13.222	25.939	34.628	42.938	34.471	34.482	2.76	13.30	1.45	17.84	0.06	1.390	0.687	146	222222222
20	196.7	11.221	11.196	26.468	35.234	43.616	34.650	34.647	0.50	29.33	2.57	33.50	0.00	0.186	0.100	195	222222222
19	246.9	10.416	10.387	26.652	35.451	43.864	34.701	34.697	0.52	31.87	2.59	35.60	0.00	0.064	0.046	245	222222222
18	296.9	10.011	9.977	26.713	35.529	43.958	34.688	34.687	0.48	33.60	2.65	36.40	0.00	0.040	0.027	295	222222222
17	398.1	9.094	9.050	26.834	35.690	44.157	34.647	34.643	0.35	39.99	2.84	38.00	0.00	0.013		395	222222225
16	498.2	8.098	8.047	26.955	35.857	44.366	34.603	34.596	0.39	48.82	3.02	39.10	0.00	0.004		494	222222225
15	596.5	6.988	6.931	27.061	36.015	44.573	34.533		0.76	59.48	3.04	40.20	0.00	0.003	-0.004	592	252222222
14	797.9	5.599	5.530	27.248	36.269	44.890	34.540		0.80	78.26	3.22	43.40	0.00	0.006		791	252222225
13	996.6	4.424	4.345	27.395	36.475	45.151	34.554	34.551	1.21	99.47	3.19	43.20	0.00	0.001		988	222222225
12	1247.9	3.541	3.448	27.507	36.633	45.353	34.580	34.581	1.59	117.74	3.12	42.40	0.00	0.002	-0.005	1237	222222222
11	1498.0	2.913	2.806	27.586	36.745	45.497	34.603	34.603	1.86	132.46	3.07	41.90	0.00	0.003		1484	222222225
10	2000.0	2.129	1.991	27.686	36.890	45.682	34.643	34.642	2.41	149.61	2.92	40.40	0.00	0.007	-0.004	1979	222222222
9	2350.9	1.925	1.760	27.716	36.932	45.736	34.658	34.658	2.58	154.18	2.87	39.70	0.00	0.001	-0.005	2324	222222222
8	2699.9	1.798	1.603	27.735	36.960	45.772	34.667	34.667	2.76	156.21	2.82	39.00	0.00	-0.002	-0.005	2667	222222222
7	3001.6	1.675	1.454	27.753	36.986	45.805	34.675	34.674	2.95	157.43	2.77	38.50	0.00	-0.003	-0.005	2963	222222222
6	3502.7	1.520	1.253	27.774	37.018	45.848	34.683	34.685	3.37	153.67	2.70	37.10	0.00			3454	222222255
5	4004.0	1.417	1.100	27.791	37.043	45.881	34.691	34.690	3.72	146.36	2.60	36.20	0.00	-0.003		3944	222222225
4	4356.0	1.349	0.995	27.800	37.059	45.902	34.695	34.696	3.98	139.97	2.54	35.20	0.00	0.008	0.014	4287	222222222
3	4705.3	1.333	0.940	27.807	37.069	45.915	34.699	34.700	4.12	136.42	2.52	34.90	0.00	0.001	0.010	4627	222222222
2	4976.2	1.345	0.919	27.809	37.071	45.919	34.699	34.701	4.20	134.69	2.50	34.70	0.00	0.004		4891	222222225
1	4977.7	1.344	0.918	27.809	37.072	45.919	34.699		4.22	134.69	2.50	34.70	0.00	0.004		4892	252222225

CRUISE: MW 893 STA: 123 DATE (D/M/Y): 10- 4-89 TIME: 0958 LAT: 9 29.83 N LONG: 159 30.86 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1500.1 M/S Depth= 4300 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.543	34.531	4.03	26.543	22.511	30.787	38.710	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.543	34.531	4.03	26.543	22.511	30.787	38.710	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.704	34.620	4.79	26.699	22.529	30.800	38.718	0.107	0.1	9.39	8.451	79.86	3.264	20.0
30	26.736	34.662	4.82	26.729	22.551	30.821	38.738	0.160	0.2	1.94	2.746	34.19	2.136	30.0
40	26.756	34.688	4.79	26.747	22.565	30.834	38.750	0.213	0.4	0.17	3.555	61.72	2.870	40.0
50	26.753	34.718	4.83	26.741	22.590	30.858	38.775	0.265	0.7	-0.25	1.725	32.49	2.082	50.0
100	20.651	34.964	4.95	20.632	24.567	32.999	41.067	0.492	2.4	-152.62	-5.143	873.53	10.797	99.9
125	16.011	34.663	3.91	15.991	25.491	34.076	42.289	0.569	3.2	-239.13	-19.369	1017.89	11.655	124.8
150	12.487	34.489	2.00	12.467	26.103	34.821	43.157	0.624	4.0	-62.24	9.244	474.04	7.953	149.7
200	11.329	34.722	0.49	11.304	26.504	35.265	43.642	0.709	5.5	-10.78	0.765	61.77	2.871	199.5
250	10.621	34.705	0.58	10.591	26.619	35.409	43.814	0.785	7.3	-15.61	-0.418	59.11	2.808	249.2
300	9.976	34.689	0.52	9.941	26.719	35.537	43.967	0.856	9.3	-8.93	-0.248	32.48	2.082	299.0
350	9.631	34.675	0.42	9.591	26.767	35.600	44.045	0.924	11.5	-10.96	-0.499	35.38	2.173	348.7
400	8.993	34.640	0.44	8.949	26.845	35.706	44.177	0.990	14.0	-10.47	-0.607	30.24	2.009	398.4
450	8.362	34.606	0.44	8.315	26.917	35.807	44.305	1.052	16.7	-11.95	-0.519	36.29	2.201	448.1
500	7.750	34.578	0.47	7.700	26.987	35.905	44.429	1.111	19.6	-9.91	-0.477	27.85	1.928	497.7
600	6.618	34.549	0.63	6.563	27.123	36.094	44.668	1.220	25.7	-9.89	-0.097	32.66	2.088	597.0
700	5.851	34.538	0.88	5.790	27.214	36.223	44.832	1.319	32.2	-6.64	0.042	22.91	1.748	696.2
800	5.374	34.548	0.81	5.307	27.281	36.313	44.944	1.410	39.2	-4.70	0.039	16.07	1.464	795.4
900	4.948	34.555	0.99	4.874	27.337	36.390	45.042	1.496	46.6	-4.74	0.079	16.58	1.487	894.5
1000	4.483	34.563	1.17	4.404	27.395	36.472	45.146	1.576	54.4	-4.45	0.071	15.31	1.429	993.6
1200	3.763	34.582	1.44	3.672	27.487	36.601	45.310	1.723	70.9	-2.65	0.067	9.39	1.119	1191.6
1400	3.363	34.593	1.66	3.260	27.536	36.672	45.401	1.858	88.7	-2.05	0.072	7.60	1.007	1389.3
1600	2.871	34.610	1.95	2.756	27.596	36.758	45.512	1.983	107.8	-2.40	0.070	8.67	1.075	1586.9
1800	2.589	34.621	2.13	2.461	27.630	36.809	45.577	2.098	127.7	-1.23	0.062	4.94	0.812	1784.3
2000	2.244	34.639	2.32	2.104	27.674	36.872	45.658	2.206	148.7	-1.53	0.074	6.20	0.910	1981.5
2200	2.051	34.650	2.51	1.897	27.699	36.908	45.705	2.307	170.4	-0.82	0.047	3.52	0.685	2178.5
2400	1.957	34.656	2.60	1.787	27.713	36.928	45.730	2.406	193.4	-0.59	0.035	2.63	0.592	2375.4
2600	1.865	34.663	2.69	1.678	27.726	36.947	45.755	2.502	218.0	-0.55	0.028	2.42	0.568	2572.0
2800	1.792	34.667	2.79	1.588	27.737	36.962	45.775	2.597	244.1	-0.56	0.030	2.51	0.579	2768.5
3000	1.723	34.672	2.90	1.501	27.747	36.977	45.794	2.690	271.7	-0.44	0.020	1.94	0.509	2964.7
3200	1.626	34.677	3.06	1.387	27.759	36.996	45.819	2.782	300.8	-0.57	0.025	2.57	0.586	3160.9
3400	1.559	34.681	3.23	1.302	27.769	37.010	45.837	2.872	331.1	-0.39	0.017	1.78	0.487	3356.8
3600	1.504	34.685	3.39	1.227	27.777	37.022	45.853	2.961	362.8	-0.34	0.015	1.58	0.459	3552.5
3800	1.476	34.687	3.50	1.179	27.782	37.030	45.864	3.049	396.1	-0.32	0.016	1.55	0.456	3748.1
4000	1.413	34.691	3.69	1.096	27.791	37.043	45.882	3.137	430.9	-0.41	0.021	2.06	0.524	3943.5
4200	1.375	34.694	3.83	1.038	27.797	37.053	45.894	3.223	467.0	-0.18	0.010	2.06	0.000	4138.7
4239	1.377	34.694	3.85	1.035	27.797	37.053	45.895	3.240	474.2	-0.15	0.009	2.06	0.000	4176.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	26.639	26.637	22.539	30.811	38.731	34.607	34.607	4.91	0.30	0.24	0.00	0.00	1.712	0.888	7	222222222
23	47.2	26.732	26.721	22.582	30.851	38.768	34.699	34.696	4.92	0.51	0.25	0.00	0.00	1.697	0.883	46	222222222
22	97.9	20.822	20.804	24.529	32.955	41.019	34.974	34.978	4.91	0.91	0.30	0.10	0.00	2.030	1.043	97	222222222
21	147.3	12.738	12.718	26.041	34.749	43.077	34.473	34.439	2.37	17.56	1.71	21.70	0.00	1.179	0.593	146	222222222
20	196.6	11.119	11.095	26.537	35.306	43.691	34.715	34.715	0.38	29.94	2.58	34.90	0.00	0.103	0.052	195	222222222
19	248.4	10.456	10.426	26.643	35.440	43.852	34.699	34.696	0.37	32.78	2.63	35.60	0.00			246	222222255
18	298.8	9.925	9.891	26.724	35.544	43.977	34.684	34.682	0.41	34.71	2.68	37.20	0.00	0.041		296	222222225
17	397.3	9.247	9.203	26.813	35.663	44.124	34.652	34.649	0.44	38.87	2.79	37.80	0.00	0.019	0.018	394	222222222
16	496.3	7.900	7.850	26.970	35.880	44.398	34.584	34.584	0.58	51.66	3.04	39.40	0.00	0.011		492	222222225
15	595.2	6.895	6.839	27.083	36.041	44.603	34.545		0.66	61.92	3.09	41.00	0.00			590	252222255
14	796.9	5.511	5.442	27.260	36.285	44.910	34.541	34.542	1.00	79.68	3.22	43.29	0.01	0.003		790	222222225
13	999.2	4.685	4.604	27.371	36.437	45.102	34.559	34.557	0.97	93.68	3.27	44.29	0.01	0.008	0.013	991	222222222
12	1247.9	3.696	3.602	27.495	36.613	45.325	34.583	34.580	1.42	115.00	3.18	43.19	0.01	0.005	0.011	1237	222222222
11	1498.6	3.060	2.951	27.573	36.725	45.469	34.603	34.601	1.75	129.51	3.10	41.99	0.01	0.001		1484	222222225
10	1999.8	2.207	2.068	27.679	36.878	45.666	34.641	34.641	2.38	148.90	2.95	40.79	0.01	0.006	-0.004	1979	222222222
9	2248.4	1.985	1.828	27.709	36.921	45.721	34.655	34.652	2.51	153.67	2.89	39.89	0.01	0.000	0.000	2223	222222255
8	2501.4	1.877	1.699	27.724	36.944	45.751	34.662	34.661	2.66	155.70	2.85	39.69	0.01	0.002	-0.005	2472	222222222
7	2752.1	1.798	1.599	27.737	36.962	45.774	34.669	34.669	2.72	157.53	2.84	39.49	0.01	0.002	-0.005	2718	222222222
6	3002.9	1.728	1.506	27.746	36.976	45.793	34.672	34.672	2.92	158.75	2.82	38.99	0.01	0.001	-0.004	2964	222222222
5	3353.6	1.572	1.319	27.767	37.007	45.834	34.680	34.679	3.18	156.82	2.72	38.29	0.01	-0.002	-0.005	3308	222222222
4	3703.6	1.489	1.202	27.779	37.026	45.859	34.686	34.686	3.45	152.66	2.66	37.29	0.01	0.004	-0.005	3650	222222222
3	4009.1	1.404	1.087	27.792	37.045	45.884	34.691	34.691	3.75	146.16	2.58	36.39	0.01	-0.003	-0.005	3949	222222222
2	4242.3	1.376	1.034	27.796	37.053	45.894	34.693	34.692		142.61	2.56	35.99	0.01	-0.001	-0.004	4176	225222222

CRUISE: MW 893 STA: 124 DATE (D/M/Y): 10- 4-89 TIME: 1759 LAT: 9 29.17 N LONG: 158 39.75 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24036E-04 1/S SOUND SPEED= 1502.6 M/S Depth= 4667 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.685	34.693	3.70	26.685	22.589	30.859	38.777	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.685	34.693	3.70	26.685	22.589	30.859	38.777	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.697	34.684	4.94	26.693	22.580	30.850	38.768	0.105	0.1	0.21	0.167	1.42	0.435	20.0
30	26.703	34.686	4.82	26.696	22.580	30.850	38.768	0.158	0.2	0.93	0.670	4.94	0.812	30.0
40	26.735	34.713	4.77	26.726	22.591	30.860	38.776	0.211	0.4	3.87	5.769	73.26	3.128	40.0
50	26.746	34.760	4.71	26.735	22.624	30.892	38.808	0.263	0.7	-1.69	0.385	19.43	1.611	50.0
100	19.383	34.891	4.18	19.365	24.846	33.316	41.422	0.479	2.3	-112.67	-7.947	543.24	8.519	99.9
125	16.296	34.612	3.39	16.276	25.386	33.962	42.166	0.551	3.1	-121.08	-10.087	512.19	8.272	124.8
150	13.564	34.464	2.00	13.543	25.868	34.545	42.843	0.612	3.9	-80.04	-1.797	383.48	7.158	149.7
200	11.217	34.710	0.36	11.192	26.515	35.280	43.662	0.704	5.6	-27.81	2.054	159.99	4.623	199.5
250	10.221	34.686	0.44	10.191	26.674	35.482	43.902	0.778	7.3	-14.11	-0.386	51.90	2.633	249.2
300	9.670	34.674	0.40	9.636	26.759	35.590	44.033	0.846	9.2	-9.82	-0.389	32.84	2.094	299.0
350	9.255	34.655	0.33	9.216	26.814	35.663	44.123	0.912	11.4	-8.67	-0.377	27.67	1.923	348.7
400	8.856	34.634	0.32	8.812	26.862	35.729	44.206	0.977	13.8	-10.47	-0.521	31.40	2.048	398.4
450	8.293	34.606	0.30	8.246	26.927	35.820	44.321	1.038	16.5	-10.89	-0.612	30.18	2.008	448.0
500	7.840	34.581	0.48	7.789	26.976	35.890	44.410	1.097	19.4	-8.97	-0.369	26.46	1.880	497.7
600	6.918	34.549	0.57	6.861	27.083	36.040	44.601	1.209	25.6	-9.53	-0.151	31.10	2.038	597.0
700	6.175	34.539	0.64	6.112	27.175	36.167	44.762	1.311	32.3	-6.30	-0.064	20.42	1.652	696.2
800	5.475	34.536	0.72	5.406	27.259	36.287	44.913	1.405	39.6	-7.00	0.040	24.04	1.792	795.4
900	4.984	34.542	0.87	4.909	27.323	36.375	45.025	1.493	47.2	-5.72	0.105	20.24	1.644	894.5
1000	4.444	34.555	1.21	4.365	27.393	36.473	45.148	1.575	55.1	-5.05	0.126	18.09	1.555	993.6
1200	3.703	34.577	1.47	3.613	27.489	36.607	45.318	1.722	71.6	-3.65	0.118	13.38	1.337	1191.6
1400	3.202	34.594	1.74	3.100	27.552	36.696	45.432	1.854	89.1	-2.21	0.069	7.96	1.031	1389.3
1600	2.761	34.611	1.97	2.647	27.607	36.775	45.534	1.976	107.7	-2.17	0.088	8.18	1.046	1586.9
1800	2.436	34.627	2.18	2.310	27.648	36.834	45.610	2.087	127.0	-1.30	0.061	5.09	0.824	1784.3
2000	2.181	34.641	2.31	2.042	27.680	36.881	45.671	2.192	147.3	-1.18	0.068	4.97	0.814	1981.5
2200	2.000	34.653	2.50	1.846	27.705	36.917	45.716	2.292	168.6	-0.95	0.055	4.07	0.737	2178.5
2400	1.892	34.660	2.64	1.723	27.720	36.938	45.744	2.387	191.1	-0.41	0.025	1.81	0.492	2375.3
2600	1.807	34.667	2.76	1.622	27.734	36.957	45.768	2.482	215.1	-0.56	0.029	2.41	0.567	2572.0
2800	1.733	34.671	2.87	1.530	27.744	36.972	45.788	2.574	240.6	-0.36	0.015	1.53	0.452	2768.4
3000	1.682	34.674	2.95	1.461	27.751	36.984	45.803	2.666	267.8	-0.40	0.019	1.79	0.489	2964.7
3200	1.609	34.678	3.11	1.370	27.761	36.998	45.822	2.757	296.5	-0.48	0.021	2.12	0.533	3160.8
3400	1.556	34.681	3.25	1.298	27.768	37.010	45.838	2.846	326.7	-0.33	0.014	1.49	0.446	3356.8
3600	1.506	34.684	3.39	1.230	27.776	37.021	45.852	2.935	358.4	-0.41	0.018	1.90	0.504	3552.5
3800	1.437	34.688	3.61	1.142	27.785	37.035	45.871	3.023	391.5	-0.39	0.018	1.85	0.498	3748.1
4000	1.400	34.691	3.77	1.084	27.792	37.045	45.884	3.110	425.9	-0.32	0.015	1.57	0.458	3943.5
4200	1.352	34.695	3.95	1.015	27.799	37.056	45.899	3.195	461.7	-0.23	0.012	1.18	0.397	4138.7
4400	1.340	34.696	4.05	0.981	27.803	37.062	45.906	3.280	499.1	-0.11	0.004	0.53	0.266	4333.8
4600	1.348	34.697	4.07	0.966	27.804	37.064	45.909	3.366	538.5	-0.05	0.002	0.53	0.000	4528.7
4653	1.351	34.698	4.07	0.963	27.805	37.065	45.910	3.389	549.4	-0.04	0.001	0.53	0.000	4580.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	26.713	26.712	22.580	30.850	38.767	34.693	34.693	4.86	1.52	0.24	0.10	0.00	0.000	0.000	7	222222255
23	47.1	26.715	26.704	22.623	30.892	38.809	34.746	34.750	4.82	1.52	0.27	0.19	0.01	0.000	0.000	46	222222255
22	97.0	18.635	18.618	24.993	33.488	41.617	34.835	34.841	4.23	3.55	0.50	3.87	0.23	0.000	0.000	96	222222255
21	146.9	12.545	12.525	26.119	34.834	43.168	34.525	34.505	1.41	22.23	2.08	26.98	0.02	0.000	0.000	146	222222255
20	196.9	10.962	10.938	26.559	35.335	43.726	34.707	34.703	0.37	31.67	2.57	35.00	0.00	0.000	0.000	195	222222255
19	247.1	10.326	10.297	26.656	35.458	43.875	34.686	34.696	0.49	33.70	2.58	35.80	0.00	0.000	0.000	245	222222255
18	298.6	9.779	9.745	26.746	35.572	44.010	34.680	34.678	0.48	36.03	2.66	37.00	0.00	0.000	0.000	296	222222255
17	397.3	9.049	9.006	26.837	35.695	44.164	34.641	34.641	0.38	41.31	2.79	38.30	0.00	0.000	0.000	394	222222255
16	496.6	7.951	7.901	26.963	35.871	44.387	34.585	34.586	0.51	50.85	2.95	39.50	0.00	0.000	0.000	493	222222255
15	596.5	6.855	6.799	27.090	36.050	44.614	34.547	34.548	0.61	62.93	3.08	41.70	0.00	0.000	0.000	592	222222255
13	797.5	5.293	5.226	27.281	36.317	44.952	34.535	34.537	0.73	84.96	3.23	44.50	0.00	0.000	0.000	791	222222255
12	899.8	4.870	4.796	27.337	36.394	45.049	34.543	34.543	1.08	91.05	3.15	43.60	0.00	0.000	0.000	892	222222255
11	997.1	4.525	4.445	27.382	36.457	45.129	34.552	34.551	1.18	97.74	3.14	43.60	0.00	0.000	0.000	989	222222255
10	1251.0	3.560	3.467	27.506	36.631	45.350	34.580	34.580	1.55	118.65	3.10	43.20	0.00	0.000	0.000	1240	222222255
9	1497.8	2.928	2.821	27.585	36.744	45.494	34.603	34.604	1.82	132.56	3.04	42.50	0.00	0.000	0.000	1484	222222255
8	2000.7	2.147	2.008	27.685	36.888	45.679	34.643	34.643	2.29	151.24	2.90	41.30	0.00	0.000	0.000	1979	222222255
7	2501.2	1.836	1.659	27.729	36.951	45.760	34.664	34.663	2.67	157.43	2.81	40.10	0.00	0.000	0.000	2472	222222255
6	3004.0	1.661	1.441	27.755	36.988	45.809	34.676	34.675	2.96	158.34	2.74	39.30	0.00	0.000	0.000	2965	222222255
5	3503.6	1.522	1.255	27.773	37.017	45.847	34.683	34.683	3.30	155.60	2.66	38.30	0.00	0.000	0.000	3455	222222255
4	4004.8	1.400	1.084	27.792	37.045	45.884	34.691	34.691	3.74	146.36	2.55	36.90	0.00	0.000	0.000	3945	222222255
3	4255.7	1.345	1.003	27.800	37.058	45.901	34.695	34.694	3.95	141.49	2.50	36.30	0.00	0.000	0.000	4189	222222255
2	4653.8	1.351	0.963	27.803	37.064	45.909	34.696	34.696	4.06	138.95	2.48	35.89	0.01	0.000	0.000	4577	222222255
1	4655.3	1.351	0.963	27.804	37.064	45.910	34.697	34.699	4.05	138.85	2.48	35.89	0.01	0.000	0.000	4579	222222255

CRUISE: MW 893 STA: 125 DATE (D/M/Y): 11- 4-89 TIME: 0311 LAT: 9 29.06 N LONG: 157 50.88 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24032E-04 1/S SOUND SPEED= 1506.2 M/S Depth= 5111 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.659	34.557	4.36	26.659	22.494	30.767	38.687	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.659	34.557	4.36	26.659	22.494	30.767	38.687	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.533	34.665	4.64	26.528	22.617	30.892	38.813	0.105	0.1	-10.41	0.837	92.01	3.506	20.0
30	26.494	34.672	4.60	26.487	22.635	30.911	38.833	0.158	0.2	0.89	2.895	44.70	2.444	30.0
40	26.506	34.705	4.57	26.497	22.657	30.932	38.854	0.210	0.4	-1.30	0.233	13.74	1.355	40.0
50	26.484	34.711	4.55	26.473	22.669	30.945	38.867	0.262	0.7	-3.76	2.046	64.11	2.927	50.0
100	18.899	34.764	3.92	18.881	24.872	33.360	41.481	0.489	2.4	-245.24	-6.521	1368.52	13.523	99.9
125	14.008	34.551	1.82	13.990	25.843	34.502	42.783	0.553	3.1	-102.93	2.472	572.09	8.743	124.8
150	12.583	34.629	0.94	12.563	26.193	34.905	43.236	0.603	3.8	-29.93	1.563	169.22	4.755	149.7
200	11.298	34.722	0.57	11.273	26.509	35.271	43.650	0.687	5.3	-21.36	0.255	97.92	3.617	199.5
250	10.430	34.702	0.69	10.401	26.651	35.449	43.861	0.761	7.0	-7.81	0.234	37.37	2.234	249.2
300	10.076	34.700	0.53	10.041	26.711	35.524	43.950	0.832	9.0	-9.33	-0.396	31.57	2.054	298.9
350	9.717	34.684	0.43	9.677	26.760	35.589	44.030	0.901	11.2	-7.46	-0.258	25.85	1.859	348.7
400	9.327	34.666	0.37	9.282	26.811	35.658	44.115	0.967	13.8	-9.47	-0.490	29.13	1.973	398.3
450	8.764	34.628	0.42	8.716	26.872	35.744	44.225	1.032	16.6	-11.65	-0.837	30.50	2.019	448.0
500	8.331	34.603	0.55	8.279	26.920	35.811	44.311	1.094	19.6	-12.37	-0.655	35.26	2.170	497.7
600	7.064	34.560	0.29	7.006	27.072	36.022	44.577	1.209	26.0	-11.00	-0.210	35.63	2.182	597.0
700	6.181	34.536	0.62	6.118	27.171	36.163	44.758	1.312	32.9	-8.52	-0.063	27.72	1.925	696.2
800	5.376	34.538	1.03	5.308	27.273	36.305	44.936	1.406	40.0	-5.45	0.028	18.52	1.573	795.4
900	5.022	34.549	0.98	4.948	27.324	36.374	45.022	1.493	47.6	-3.97	-0.019	12.49	1.292	894.5
1000	4.555	34.552	1.21	4.475	27.379	36.453	45.123	1.576	55.6	-5.21	0.109	18.65	1.579	993.6
1200	3.856	34.572	1.42	3.765	27.470	36.580	45.284	1.727	72.5	-3.35	0.117	12.46	1.291	1191.6
1400	3.237	34.592	1.72	3.135	27.547	36.690	45.425	1.862	90.4	-2.71	0.098	10.10	1.162	1389.3
1600	2.816	34.610	1.94	2.702	27.601	36.766	45.522	1.984	109.1	-2.09	0.098	8.20	1.047	1586.9
1800	2.407	34.629	2.18	2.282	27.651	36.839	45.616	2.096	128.5	-1.55	0.071	6.10	0.903	1784.3
2000	2.178	34.641	2.36	2.038	27.681	36.882	45.672	2.201	148.7	-1.22	0.068	5.05	0.822	1981.5
2200	1.994	34.653	2.52	1.840	27.706	36.918	45.718	2.300	170.0	-0.77	0.040	3.20	0.654	2178.5
2400	1.864	34.661	2.64	1.695	27.724	36.944	45.751	2.395	192.4	-0.68	0.041	3.00	0.633	2375.3
2600	1.790	34.667	2.75	1.604	27.735	36.960	45.772	2.488	216.1	-0.39	0.021	1.70	0.477	2572.0
2800	1.740	34.671	2.83	1.537	27.743	36.971	45.787	2.581	241.6	-0.38	0.018	1.65	0.470	2768.4
3000	1.664	34.674	2.97	1.444	27.753	36.986	45.806	2.672	268.7	-0.39	0.017	1.69	0.475	2964.7
3200	1.602	34.678	3.09	1.364	27.762	36.999	45.824	2.763	297.3	-0.46	0.019	2.04	0.522	3160.8
3400	1.554	34.681	3.22	1.297	27.769	37.010	45.838	2.852	327.4	-0.31	0.016	1.45	0.440	3356.8
3600	1.501	34.685	3.38	1.224	27.777	37.022	45.854	2.941	359.0	-0.34	0.016	1.60	0.463	3552.5
3800	1.440	34.688	3.56	1.144	27.785	37.035	45.871	3.029	392.2	-0.37	0.020	1.85	0.497	3748.1
4000	1.411	34.691	3.70	1.095	27.791	37.043	45.882	3.116	426.7	-0.31	0.014	1.51	0.450	3943.5
4200	1.372	34.694	3.86	1.035	27.797	37.053	45.895	3.202	462.8	-0.31	0.014	1.53	0.452	4138.7
4400	1.345	34.696	4.00	0.986	27.802	37.061	45.905	3.288	500.4	-0.13	0.006	0.66	0.298	4333.8
4600	1.349	34.697	4.06	0.967	27.804	37.064	45.909	3.374	539.9	-0.05	0.002	0.25	0.183	4528.7
4800	1.362	34.698	4.09	0.956	27.805	37.066	45.912	3.461	581.7	-0.05	0.002	0.25	0.183	4723.4
5000	1.379	34.698	4.12	0.948	27.806	37.067	45.913	3.549	626.0	-0.04	0.002	0.23	0.175	4918.0
5187	1.394	34.698	4.13	0.940	27.807	37.068	45.915	3.634	669.7	-0.05	0.003	0.23	0.000	5099.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.9	26.566	26.564	22.589	30.863	38.784	34.643	34.641	5.05	1.62	0.25	0.00	0.00	1.771	0.935	5	222222222
23	47.6	26.458	26.448	22.693	30.969	38.892	34.732	34.732	5.04	1.73	0.25	0.10	0.00	1.741	0.906	47	222222222
22	96.0	20.485	20.467	24.614	33.050	41.123	34.967	34.901	4.64	2.74	0.35	0.40	0.00	2.009	1.036	95	222222222
21	146.9	11.963	11.944	26.328	35.064	43.418	34.649	34.651	0.87	27.91	2.35	31.90	0.00	0.332	0.173	146	222222222
20	198.3	10.849	10.825	26.569	35.350	43.746	34.694	34.691	0.63	31.77	2.52	34.70	0.00	0.134	0.081	197	222222222
19	249.0	10.358	10.328	26.677	35.478	43.893	34.720	34.705	0.48	33.29	2.58	36.10	0.00	0.067		247	222222225
18	297.5	9.861	9.827	26.740	35.563	43.998	34.691	34.686	0.43	35.73	2.68	37.40	0.00	0.034		295	222222225
17	397.8	9.084	9.040	26.841	35.698	44.165	34.654	34.651	0.22	42.22	2.90	38.70	0.00			395	222222255
16	498.4	8.133	8.082	26.941	35.841	44.349	34.592	34.590	0.52	48.82	2.93	39.40	0.00	0.023		494	222222225
15	596.8	7.093	7.036	27.068	36.017	44.570	34.561	34.559	0.48	62.52	3.21	42.00	0.00	0.045	0.037	592	222222222
14	698.4	6.287	6.224	27.158	36.146	44.735	34.537	34.535	0.58	69.93	3.17	42.90	0.00		0.002	693	222222252
13	796.7	5.499	5.430	27.257	36.283	44.909	34.537	34.537	0.90	80.59	3.17	43.60	0.00	0.015		790	222222225
12	898.0	5.049	4.974	27.320	36.369	45.016	34.549	34.547	0.89	88.20	3.24	44.60	0.00	0.002		891	222222225
11	991.7	4.578	4.498	27.371	36.443	45.113	34.545	34.549	1.31	97.24	3.18	43.70	0.00	0.035	0.118	983	222222222
10	1263.2	3.618	3.523	27.501	36.623	45.339	34.581	34.577	1.49	117.03	3.15	43.30	0.00	0.011		1252	222222225
9	1530.8	2.820	2.712	27.598	36.763	45.519	34.608	34.605	1.87	132.86	3.07	42.50	0.00	0.003	0.008	1516	222222222
8	2001.9	2.139	2.000	27.686	36.889	45.681	34.644	34.643	2.38	150.22	2.92	41.00	0.00	0.003	-0.005	1981	222222222
7	2501.9	1.817	1.640	27.731	36.953	45.763	34.665	34.665	2.68	157.32	2.83	40.00	0.00	0.005	0.001	2473	222222222
6	3002.1	1.666	1.446	27.753	36.986	45.806	34.674	34.674	2.96	158.85	2.79	39.50	0.00	0.002	-0.005	2964	222222222
5	3504.1	1.534	1.267	27.772	37.015	45.844	34.682	34.682	3.29	156.82	2.71	38.60	0.00	0.002	-0.005	3455	222222222
4	4003.3	1.410	1.094	27.790	37.043	45.881	34.690	34.690	3.71	148.19	2.60	37.10	0.00	0.001	0.006	3943	222222222
3	4504.7	1.345	0.975	27.802	37.062	45.906	34.695	34.695	4.02	140.17	2.53	36.10	0.00	0.001	-0.005	4432	222222222
2	5187.6	1.394	0.941	27.805	37.067	45.913	34.696	34.700	4.12	137.63	2.51	35.80	0.00	0.001	0.008	5096	222222222
1	5189.1	1.394	0.940	27.806	37.067	45.914	34.697	34.699	4.12	137.74	2.51	35.69	0.01	-0.003	0.002	5098	222222222

CRUISE: MW 893 STA: 126 DATE (D/M/Y): 11- 4-89 TIME: 1206 LAT: 9 29.56 N LONG: 157 0.80 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1507.2 M/S Depth= 5260 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.571	34.634	4.96	26.571	22.580	30.854	38.775	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.571	34.634	4.96	26.571	22.580	30.854	38.775	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.582	34.660	4.86	26.578	22.598	30.871	38.792	0.105	0.1	0.19	-0.027	-1.89	-0.503	20.0
30	26.585	34.662	4.85	26.578	22.599	30.872	38.793	0.157	0.2	-1.00	1.157	27.94	1.931	30.0
40	26.563	34.686	4.84	26.554	22.625	30.899	38.819	0.210	0.4	-2.36	2.234	57.11	2.761	40.0
50	26.541	34.709	4.75	26.530	22.650	30.924	38.845	0.262	0.7	-3.81	2.464	71.99	3.100	50.0
100	18.826	34.851	4.25	18.808	24.957	33.446	41.569	0.485	2.3	-204.01	-6.360	1121.51	12.236	99.9
125	14.468	34.482	2.93	14.450	25.692	34.335	42.601	0.552	3.1	-141.28	-1.631	677.86	9.513	124.8
150	12.273	34.656	1.03	12.253	26.274	34.997	43.340	0.602	3.8	-30.01	2.361	183.67	4.952	149.7
200	11.095	34.707	0.71	11.070	26.535	35.306	43.692	0.684	5.2	-14.89	0.135	67.54	3.003	199.5
250	10.381	34.699	0.63	10.351	26.657	35.457	43.871	0.759	6.9	-14.16	-0.233	55.46	2.721	249.2
300	9.868	34.683	0.74	9.833	26.733	35.555	43.990	0.829	8.9	-5.76	-0.103	21.85	1.708	298.9
350	9.584	34.675	0.66	9.545	26.775	35.610	44.057	0.896	11.2	-7.24	-0.202	25.79	1.855	348.6
400	9.197	34.661	0.44	9.153	26.828	35.680	44.143	0.962	13.7	-8.44	-0.392	26.58	1.884	398.3
450	8.722	34.637	0.21	8.674	26.886	35.759	44.242	1.026	16.4	-9.17	-0.527	26.18	1.870	448.0
500	8.157	34.603	0.24	8.105	26.946	35.845	44.352	1.087	19.4	-12.20	-0.678	34.07	2.133	497.7
600	7.167	34.558	0.36	7.109	27.055	36.001	44.551	1.202	25.8	-10.94	-0.380	32.40	2.080	597.0
700	6.088	34.534	0.60	6.026	27.182	36.179	44.777	1.306	32.7	-9.96	-0.075	32.71	2.090	696.2
800	5.454	34.539	0.74	5.385	27.264	36.292	44.920	1.399	39.9	-5.50	0.016	18.30	1.563	795.4
900	4.906	34.548	0.94	4.833	27.336	36.392	45.045	1.486	47.4	-5.05	0.075	17.59	1.532	894.5
1000	4.531	34.557	1.15	4.451	27.386	36.460	45.132	1.568	55.3	-3.13	0.105	11.79	1.254	993.6
1200	3.822	34.575	1.44	3.731	27.475	36.587	45.293	1.718	72.1	-3.41	0.109	12.56	1.295	1191.6
1400	3.169	34.595	1.74	3.067	27.556	36.702	45.440	1.853	89.9	-3.20	0.104	11.65	1.247	1389.3
1600	2.782	34.612	1.96	2.669	27.605	36.772	45.530	1.973	108.3	-1.89	0.078	7.14	0.976	1586.9
1800	2.384	34.630	2.11	2.259	27.654	36.843	45.622	2.084	127.6	-1.61	0.078	6.37	0.922	1784.3
2000	2.133	34.644	2.34	1.995	27.687	36.890	45.682	2.188	147.6	-0.89	0.054	3.76	0.708	1981.5
2200	1.985	34.654	2.53	1.832	27.708	36.920	45.720	2.286	168.7	-0.67	0.039	2.86	0.618	2178.5
2400	1.894	34.660	2.62	1.725	27.721	36.939	45.744	2.382	191.2	-0.50	0.032	2.23	0.545	2375.3
2600	1.817	34.666	2.72	1.631	27.733	36.956	45.766	2.476	215.3	-0.54	0.027	2.30	0.554	2572.0
2800	1.738	34.671	2.83	1.535	27.744	36.972	45.788	2.569	240.8	-0.48	0.022	2.07	0.525	2768.4
3000	1.657	34.675	2.97	1.437	27.754	36.988	45.808	2.660	267.8	-0.31	0.013	1.35	0.425	2964.7
3200	1.618	34.678	3.07	1.379	27.760	36.997	45.821	2.751	296.5	-0.31	0.013	1.38	0.429	3160.8
3400	1.571	34.680	3.18	1.313	27.767	37.008	45.835	2.841	326.8	-0.38	0.017	1.74	0.482	3356.7
3600	1.516	34.684	3.34	1.239	27.775	37.020	45.851	2.930	358.7	-0.32	0.014	1.49	0.447	3552.5
3800	1.471	34.687	3.49	1.174	27.782	37.030	45.865	3.019	392.1	-0.38	0.017	1.81	0.492	3748.1
4000	1.412	34.691	3.69	1.096	27.791	37.043	45.882	3.106	426.9	-0.36	0.017	1.79	0.489	3943.5
4200	1.374	34.694	3.85	1.037	27.797	37.053	45.895	3.193	463.0	-0.23	0.010	1.14	0.390	4138.7
4400	1.349	34.697	3.98	0.990	27.802	37.061	45.905	3.279	500.7	-0.19	0.009	1.00	0.365	4333.8
4600	1.351	34.697	4.05	0.969	27.804	37.064	45.909	3.365	540.2	-0.05	0.002	0.24	0.180	4528.7
4800	1.365	34.698	4.08	0.959	27.805	37.066	45.911	3.452	582.1	-0.04	0.002	0.20	0.162	4723.4
5000	1.386	34.698	4.09	0.955	27.806	37.066	45.912	3.541	626.4	-0.02	0.001	0.13	0.130	4917.9
5200	1.406	34.698	4.11	0.950	27.806	37.067	45.913	3.631	673.4	-0.05	0.003	0.28	0.195	5112.3
5335	1.418	34.699	4.11	0.945	27.807	37.068	45.914	3.693	706.6	-0.03	0.004	0.28	0.000	5243.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.9	26.549	26.548	22.616	30.890	38.811	34.672	34.670	4.73	1.42	0.23	0.01	-0.01	1.739	0.895	0	222222222
23	48.4	26.558	26.546	22.625	30.899	38.820	34.684	34.674	4.73	1.42	0.24	0.11	-0.01	1.816	0.963	48	222222222
22	98.0	19.920	19.902	24.773	33.226	41.315	34.979	34.941	4.43	2.74	0.36	1.82	0.08	2.051	1.039	97	222222222
21	148.8	12.713	12.693	26.134	34.841	43.169	34.586	34.578	0.89	24.26	2.26	29.57	0.03	0.592	0.304	147	222222222
20	196.2	11.186	11.162	26.487	35.254	43.637	34.666	34.683	0.70	30.45	2.44	33.50	0.00	0.191		195	222222225
19	246.6	10.583	10.553	26.619	35.410	43.817	34.695	34.701	0.52	32.28	2.52	35.00	0.00	0.095		245	222222225
18	296.3	10.081	10.047	26.696	35.510	43.936	34.682	34.685	0.67	34.10	2.54	35.60	0.00	0.077		294	222222225
17	396.2	9.261	9.217	26.819	35.668	44.128	34.662	34.664	0.44	38.67	2.72	37.70	0.00	0.029	0.024	393	222222222
16	495.6	8.228	8.177	26.939	35.835	44.338	34.607	34.612	0.20	50.14	3.02	38.40	0.00	0.015	0.013	492	222222222
15	596.8	7.131	7.074	27.061	36.008	44.559	34.558	34.559	0.31	61.10	3.12	40.60	0.00	0.010	0.016	592	222222222
14	698.7	6.358	6.294	27.149	36.133	44.719	34.536	34.536	0.55	69.63	3.15	42.20	0.00		0.015	693	222222252
13	796.7	5.659	5.589	27.236	36.254	44.873	34.535	34.534	0.68	79.37	3.17	43.10	0.00	0.028	0.033	790	222222222
12	994.2	4.701	4.620	27.363	36.429	45.093	34.552	34.549	1.14	94.39	3.16	43.20	0.00	0.005		986	222222225
11	1247.3	3.727	3.633	27.489	36.605	45.316	34.579	34.577	1.44	114.69	3.13	42.70	0.00	0.006		1236	222222225
10	1498.0	2.890	2.783	27.592	36.753	45.505	34.609	34.605	1.87	133.47	3.02	41.90	0.00	0.009	0.008	1484	222222222
9	1998.0	2.149	2.010	27.684	36.887	45.678	34.643	34.641	2.34	150.73	2.90	41.00	0.00	0.001	0.007	1977	222222222
8	2502.5	1.868	1.690	27.726	36.945	45.753	34.663	34.663	2.65	156.21	2.81	40.00	0.00	0.004	0.001	2473	222222222
7	3002.8	1.667	1.446	27.754	36.987	45.807	34.675	34.676	2.94	158.75	2.74	39.00	0.00	0.005	0.006	2964	222222222
6	3504.2	1.540	1.273	27.771	37.014	45.843	34.682	34.684	3.29	156.31	2.65	38.10	0.00	0.000	-0.005	3455	222222252
5	4003.7	1.417	1.100	27.789	37.042	45.880	34.690	34.691	3.70	147.78	2.55	36.80	0.00	0.002	0.007	3943	222222222
3	5003.1	1.386	0.955	27.805	37.065	45.911	34.697	34.698	4.09	138.55	2.48	35.60	0.00	0.003	0.002	4917	222222222
2	5338.3	1.418	0.945	27.806	37.067	45.914	34.698	34.698	4.12	137.63	2.46	35.49	0.01	0.002	0.003	5242	222222222
1	5338.3	1.418	0.945	27.806	37.067	45.914	34.698	34.697	4.13	137.74	2.47	35.69	0.01	0.000		5242	222222255

CRUISE: MW 893 STA: 127 DATE (D/M/Y): 11- 4-89 TIME: 2121 LAT: 9 30.02 N LONG: 156 10.69 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24072E-04 1/S SOUND SPEED= 1503.5 M/S Depth= 4690 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.482	34.106	5.21	26.482	22.210	30.492	38.420	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.482	34.106	5.21	26.482	22.210	30.492	38.421	0.006	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.504	34.698	5.10	26.499	22.651	30.926	38.848	0.107	0.1	12.38	34.858	526.67	8.382	20.0
30	26.536	34.817	4.91	26.530	22.731	31.004	38.924	0.158	0.2	-1.86	-0.283	8.80	1.083	30.0
40	26.519	34.814	4.84	26.510	22.735	31.008	38.928	0.209	0.4	-1.36	-0.069	8.92	1.091	40.0
50	26.508	34.813	4.80	26.497	22.739	31.012	38.933	0.261	0.7	-3.51	-0.894	10.22	1.167	50.0
100	19.213	34.781	4.29	19.196	24.805	33.282	41.395	0.501	2.5	-274.37	-5.234	1656.01	14.863	99.9
125	14.809	34.499	2.79	14.791	25.632	34.262	42.516	0.570	3.3	-151.05	-7.834	675.27	9.491	124.8
150	12.399	34.534	0.95	12:380	26.154	34.875	43.214	0.623	4.0	-62.98	9.271	479.74	8.000	149.7
200	11.083	34.705	0.27	11.059	26.536	35.306	43.693	0.705	5.5	-16.78	-0.292	68.11	3.014	199.5
250	10.509	34.706	0.32	10.479	26.640	35.435	43.844	0.780	7.2	-9.21	0.075	40.58	2.327	249.2
300	10.116	34.696	0.37	10.081	26.701	35.513	43.938	0.851	9.2	-7.67	-0.308	26.39	1.876	299.0
350	9.758	34.690	0.31	9.718	26.758	35.585	44.024	0.920	11.4	-8.31	-0.381	27.23	1.906	348.7
400	9.400	34.669	0.18	9.355	26.802	35.645	44.099	0.987	14.0	-6.94	-0.257	23.39	1.766	398.4
450	8.975	34.648	0.13	8.926	26.855	35.717	44.189	1.052	16.8	-7.54	-0.418	22.33	1.726	448.1
500	8.539	34.626	0.13	8.486	26.906	35.788	44.278	1.115	19.9	-10.24	-0.540	29.94	1.998	497.7
600	7.362	34.561	0.38	7.303	27.031	35.967	44.509	1.233	26.5	-10.70	-0.440	31.06	2.035	597.0
700	6.379	34.534	0.57	6.314	27.144	36.127	44.713	1.339	33.5	-9.25	-0.148	29.25	1.975	696.2
800	5.533	34.537	0.72	5.464	27.253	36.278	44.902	1.436	40.9	-7.54	0.072	26.35	1.875	795.4
900	4.972	34.541	0.87	4.898	27.323	36.376	45.026	1.524	48.5	-4.72	0.100	16.98	1.505	894.5
1000	4.499	34.554	1.06	4.420	27.387	36.464	45.136	1.606	56.5	-2.84	0.180	12.35	1.284	993.6
1200	3.867	34.575	1.37	3.775	27.472	36.581	45.284	1.757	73.4	-3.32	0.106	12.26	1.279	1191.6
1400	3.279	34.593	1.65	3.177	27.544	36.684	45.417	1.892	91.3	-2.58	0.097	9.72	1.138	1389.4
1600	2.828	34.610	1.90	2.714	27.600	36.764	45.520	2.016	110.2	-2.25	0.095	8.67	1.076	1587.0
1800	2.416	34.628	2.16	2.290	27.650	36.837	45.614	2.128	129.7	-1.84	0.085	7.24	0.983	1784.3
2000	2.181	34.641	2.34	2.042	27.681	36.881	45.671	2.233	150.0	-1.11	0.063	4.64	0.786	1981.5
2200	1.999	34.652	2.50	1.845	27.705	36.917	45.716	2.332	171.3	-0.72	0.044	3.11	0.644	2178.6
2400	1.909	34.660	2.61	1.739	27.719	36.936	45.741	2.429	193.9	-0.62	0.037	2.72	0.602	2375.4
2600	1.823	34.665	2.71	1.637	27.732	36.954	45.764	2.523	218.0	-0.43	0.023	1.88	0.501	2572.0
2800	1.755	34.670	2.81	1.552	27.741	36.969	45.783	2.617	243.7	-0.44	0.023	1.99	0.515	2768.5
3000	1.697	34.673	2.90	1.476	27.750	36.981	45.800	2.709	271.0	-0.40	0.019	1.77	0.486	2964.8
3200	1.624	34.677	3.03	1.385	27.759	36.996	45.819	2.800	299.9	-0.48	0.022	2.16	0.536	3160.9
3400	1.554	34.680	3.20	1.297	27.768	37.010	45.837	2.890	330.2	-0.47	0.022	2.20	0.542	3356.8
3600	1.495	34.685	3.38	1.218	27.777	37.023	45.855	2.979	361.9	-0.37	0.016	1.72	0.479	3552.6
3800	1.438	34.689	3.57	1.142	27.786	37.036	45.871	3.067	394.9	-0.42	0.020	2.04	0.521	3748.1
4000	1.395	34.691	3.74	1.079	27.792	37.046	45.885	3.153	429.3	-0.27	0.014	1.37	0.428	3943.5
4200	1.360	34.694	3.89	1.023	27.798	37.055	45.897	3.239	465.2	-0.29	0.015	1.47	0.443	4138.8
4400	1.344	34.697	4.01	0.985	27.803	37.061	45.906	3.324	502.6	-0.09	0.003	0.45	0.245	4333.8
4600	1.353	34.697	4.04	0.971	27.804	37.063	45.908	3.410	542.2	-0.04	0.001	0.19	0.159	4528.7
4759	1.365	34.697	4.04	0.964	27.804	37.064	45.910	3.480	575.3	-0.04	0.002	0.19	0.000	4683.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	26.514	26.513	22.536	30.812	38.735	34.551	34.597	4.86	1.52	0.23	0.00	0.00	1.717		7	222222225
23	47.7	26.400	26.390	22.759	31.036	38.959	34.796	34.791	4.85	1.62	0.27	0.10	0.00	1.753	0.984	47	222222222
22	96.9	17.275	17.259	25.212	33.753	41.925	34.685	34.714	4.08	4.77	0.61	5.61	0.19	1.987	1.022	96	222222222
21	147.6	12.170	12.151	26.225	34.954	43.301	34.568	34.536	1.30	24.66	2.28	29.80	0.00	0.633	0.340	146	222222222
20	198.8	10.932	10.908	26.558	35.335	43.727	34.698	34.697	0.26	31.47	2.60	35.10	0.00	0.083		197	222222225
19	248.8	10.363	10.333	26.657	35.458	43.873	34.695	34.693	0.35	33.49	2.62	35.80	0.00	0.056		247	222222225
18	297.5	10.036	10.001	26.716	35.531	43.959	34.697	34.695	0.39	34.31	2.62	36.80	0.00	0.046	0.026	295	222222222
17	398.9	9.327	9.283	26.813	35.659	44.116	34.668	34.667	0.14	39.69	2.83	37.80	0.00	0.011		396	222222225
16	497.4	8.475	8.422	26.917	35.801	44.295	34.627	34.621	0.16	47.60	3.00	38.50	0.00	0.014	0.007	494	222222222
15	597.0	7.265	7.207	27.042	35.982	44.528	34.558	34.556	0.40	58.57	3.15	40.20	0.00	0.006	0.007	592	222222222
14	796.7	5.636	5.567	27.240	36.259	44.879	34.535	34.535	0.73	77.95	3.18	43.70	0.00		0.013	790	222222252
13	998.6	4.468	4.389	27.393	36.471	45.145	34.558	34.557	1.15	97.95	3.18	44.00	0.00	0.006	0.011	990	222222222
12	1246.6	3.676	3.582	27.495	36.614	45.327	34.581	34.581	1.45	114.90	3.13	43.20	0.00	0.002		1235	222222225
11	1496.8	3.002	2.894	27.577	36.732	45.479	34.602	34.601		129.82	3.05	42.60	0.00	0.037	0.103	1483	225222222
10	1999.1	2.181	2.042	27.681	36.881	45.671	34.641	34.641	2.31	148.80	2.90	40.60	0.00	0.011		1978	222222225
9	2348.2	1.937	1.772	27.715	36.930	45.733	34.657		2.55	153.47	2.84	40.30	0.00			2321	252222255
8	2698.9	1.787	1.593	27.737	36.962	45.774	34.667	34.667	2.77	156.92	2.79	39.90	0.00			2666	222222255
7	3001.1	1.698	1.477	27.750	36.982	45.800	34.674	34.674	2.89	157.53	2.76	39.50	0.00			2963	222222255
6	3354.7	1.579	1.326	27.766	37.006	45.832	34.680	34.681	3.15	156.92	2.71	38.80	0.00	0.000	-0.005	3309	222222252
5	3705.3	1.467	1.181	27.781	37.029	45.863	34.686	34.687	3.48	151.34	2.64	37.60	0.00			3652	222222255
4	4003.4	1.393	1.077	27.792	37.045	45.885	34.691	34.687	3.62	144.23	2.58	37.20	0.00	0.001	-0.005	3943	222222222
3	4352.8	1.345	0.992	27.801	37.059	45.903	34.695	34.694	3.99	139.87	2.49	36.20	0.00			4284	222222255
2	4761.2	1.365	0.964	27.804	37.064	45.910	34.697	34.697	4.11	137.74	2.48	35.90	0.00			4682	222222255
1	4761.5	1.365	0.964	27.804	37.064	45.909	34.697		4.07	137.84	2.48	35.90	0.00	-0.002	-0.005	4682	252222222

CRUISE: MW 893 STA: 128 DATE (D/M/Y): 12- 4-89 TIME: 0625 LAT: 9 29.50 N LONG: 155 20.74 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24050E-04 1/S SOUND SPEED= 1505.7 M/S Depth= 5169 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.629	34.744	4.03	26.629	22.645	30.916	38.835	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.629	34.744	4.03	26.628	22.645	30.916	38.835	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.641	34.786	4.98	26.637	22.674	30.944	38.862	0.104	0.1	-1.62	0.806	26.33	1.875	20.0
30	26.615	34.800	4.94	26.609	22.693	30.964	38.883	0.155	0.2	-4.79	3.727	101.70	3.685	30.0
40	26.601	34.843	4.94	26.592	22.731	31.002	38.921	0.207	0.4	0.92	3.336	52.32	2.643	40.0
50	26.607	34.870	4.91	26.596	22.751	31.021	38.939	0.258	0.7	0.04	3.004	52.96	2.659	50.0
100	18.809	34.649	4.20	18.792	24.807	33.299	41.424	0.497	2.5	-306.42	-11.287	1730.41	15.200	99.9
125	14.116	34.440	2.72	14.098	25.734	34.390	42.669	0.564	3.2	-132.34	-1.983	651.63	9.328	124.8
150	12.399	34.712	0.60	12.379	26.293	35.011	43.348	0.614	3.9	-30.37	8.262	311.55	6.450	149.7
200	11.213	34.733	0.55	11.188	26.534	35.299	43.680	0.695	5.4	-16.17	-0.439	63.00	2.900	199.5
250	10.525	34.710	0.59	10.495	26.641	35.435	43.843	0.770	7.1	-11.62	-0.230	45.25	2.458	249.2
300	10.079	34.700	0.46	10.044	26.711	35.524	43.950	0.841	9.1	-8.34	-0.307	29.12	1.972	299.0
350	9.666	34.683	0.32	9.626	26.768	35.599	44.042	0.909	11.3	-8.39	-0.388	27.28	1.909	348.7
400	9.264	34.661	0.26	9.219	26.818	35.667	44.126	0.976	13.9	-9.97	-0.625	28.57	1.953	398.4
450	8.787	34.635	0.21	8.738	26.874	35.745	44.225	1.040	16.6	-8.83	-0.393	27.47	1.915	448.0
500	8.346	34.615	0.17	8.293	26.928	35.818	44.317	1.102	19.6	-12.27	-0.599	36.10	2.195	497.7
600	7.217	34.566	0.26	7.159	27.055	35.998	44.546	1.217	26.1	-10.93	-0.337	33.26	2.107	597.0
700	6.223	34.541	0.57	6.168	27.170	36.160	44.753	1.321	33.0	-6.96	0.015	24.17	1.796	696.2
800	5.663	34.551	0.49	5.593	27.249	36.267	44.885	1.417	40.3	-4.84	0.047	16.86	1.500	795.4
900	5.155	34.553	0.72	5.080	27.312	36.355	44.997	1.506	48.1	-3.99	0.033	13.67	1.351	894.5
1000	4.758	34.558	0.91	4.677	27.362	36.425	45.086	1.591	56.2	-4.02	0.036	13.59	1.347	993.6
1200	4.007	34.572	1.31	3.914	27.454	36.556	45.253	1.746	73.6	-3.29	0.084	11.84	1.257	1191.6
1400	3.384	34.588	1.63	3.281	27.530	36.665	45.392	1.885	92.1	-2.91	0.083	10.52	1.185	1389.4
1600	2.920	34.605	1.80	2.805	27.587	36.747	45.498	2.011	111.4	-2.08	0.078	7.84	1.023	1587.0
1800	2.517	34.623	2.03	2.390	27.637	36.819	45.591	2.127	131.4	-1.71	0.080	6.77	0.951	1784.3
2000	2.248	34.637	2.24	2.108	27.672	36.869	45.656	2.234	152.1	-1.22	0.068	5.11	0.826	1981.5
2200	2.028	34.651	2.41	1.874	27.702	36.912	45.710	2.335	173.8	-0.98	0.058	4.25	0.753	2178.6
2400	1.908	34.659	2.57	1.738	27.719	36.936	45.741	2.432	196.5	-0.57	0.035	2.55	0.583	2375.4
2600	1.840	34.665	2.68	1.654	27.730	36.952	45.761	2.527	220.7	-0.36	0.021	1.60	0.463	2572.0
2800	1.765	34.669	2.73	1.562	27.740	36.967	45.781	2.621	246.6	-0.48	0.021	2.06	0.525	2768.5
3000	1.702	34.673	2.83	1.481	27.749	36.980	45.799	2.714	274.0	-0.41	0.018	1.81	0.491	2964.8
3200	1.634	34.677	2.99	1.395	27.758	36.994	45.817	2.805	302.9	-0.46	0.017	1.99	0.515	3160.9
3400	1.564	34.680	3.14	1.306	27.767	37.008	45.836	2.896	333.3	-0.37	0.016	1.70	0.476	3356.8
3600	1.523	34.683	3.29	1.246	27.774	37.018	45.849	2.985	365.3	-0.32	0.015	1.53	0.452	3552.6
3800	1.455	34.687	3.52	1.159	27.783	37.032	45.868	3.074	398.7	-0.50	0.025	2.42	0.568	3748.1
4000	1.410	34.691	3.70	1.093	27.790	37.043	45.882	3.160	433.3	-0.18	0.009	0.91	0.349	3943.5
4200	1.399	34.693	3.79	1.061	27.794	37.049	45.889	3.247	469.6	-0.26	0.012	1.30	0.417	4138.8
4400	1.369	34.695	3.94	1.010	27.800	37.057	45.900	3.334	507.6	-0.18	0.008	0.94	0.353	4333.8
4600	1.359	34.696	4.03	0.977	27.803	37.062	45.907	3.421	547.5	-0.13	0.005	0.66	0.297	4528.7
4800	1.372	34.697	4.06	0.966	27.804	37.064	45.909	3.509	589.5	-0.04	0.003	0.22	0.170	4723.4
5000	1.390	34.697	4.07	0.959	27.805	37.065	45.911	3.598	634.0	-0.03	0.002	0.22	0.000	4918.0
5079	1.397	34.698	4.07	0.956	27.805	37.066	45.911	3.633	652.3	-0.04	0.001	0.22	0.000	4994.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	26.614	26.612	22.682	30.953	38.871	34.786	34.787	4.71	0.41	0.27	0.30	0.00	1.722	0.892	6	222222222
23	46.4	26.570	26.560	22.749	31.021	38.940	34.853	34.853	4.88	0.61	0.32	0.60	0.00	1.727	0.891	46	222222222
22	99.3	17.454	17.437	25.096	33.633	41.800	34.590	34.594	3.86	4.47	0.80	7.24	0.16	1.861	0.926	98	222222222
21	146.8	12.492	12.472	26.237	34.952	43.287	34.664	34.661	0.34	25.68	2.51	33.20	0.00	0.325	0.166	145	222222222
20	195.5	11.314	11.290	26.515	35.276	43.653	34.732	34.729	0.32	28.83	2.56	35.10	0.00	0.111		194	222222225
19	246.3	10.584	10.554	26.633	35.424	43.830	34.714	34.719	0.39	30.86	2.57	35.80	0.00	0.071	0.053	244	222222222
18	296.6	10.137	10.102	26.700	35.511	43.935	34.700	34.698	0.37	33.09	2.64	36.70	0.00	0.043	0.042	294	222222222
17	397.2	9.387	9.342	26.797	35.641	44.096	34.661	34.665	0.18	38.16	2.82	38.40	0.00	0.010	0.018	394	222222222
16	490.2	8.548	8.496	26.904	35.785	44.275	34.624	34.623	0.17	45.67	3.00	38.80	0.00	0.008		486	222222225
15	596.6	7.462	7.403	27.025	35.956	44.493	34.571	34.571	0.23	56.94	3.15	40.80	0.00	0.001	0.001	592	222222222
14	798.8	5.723	5.653	27.241	36.256	44.872	34.551	34.549	0.49	76.23	3.30	45.00	0.00		-0.005	792	222222252
13	998.3	4.693	4.612	27.367	36.434	45.097	34.556	34.557	0.99	92.77	3.25	44.60	0.00	0.004		990	222222225
12	1249.5	3.747	3.652	27.484	36.600	45.309	34.576	34.577	1.45	112.87	3.14	43.40	0.00	-0.001	0.008	1238	222222222
11	1501.6	3.114	3.005	27.563	36.713	45.454	34.597	34.597	1.74	126.98	3.10	43.00	0.00	0.036	0.072	1487	222222222
10	1999.6	2.260	2.120	27.670	36.867	45 653	34.636	34.636	2.21	147.28	2.95	41.50	0.00	0.001	-0.005	1978	222222222
9	2350.9	1.933	1.768	27.715	36.931	45.734	34.657	34.656	2.52	154.79	2.85	40.50	0.00	0.002	-0.005	2324	222222222
8	2703.2	1.798	1.603	27.737	36.961	45.773	34.668	34.667	2.67	158.24	2.81	40.00	0.00	-0.003	-0.005	2670	222222222
7	3003.4	1.689	1.468	27.752	36.984	45.802	34.675		2.85	160.88	2.77	39.60	0.00	0.002	0.006	2965	252222222
6	3352.2	1.576	1.323	27.765	37.005	45.832	34.679	34.680	3.10	161.28	2.72	39.00	0.00	0.003	-0.005	3307	222222222
5	3704.3	1.482	1.195	27.778	37.025	45.859	34.684	34.686	3.45	154.08	2.63	37.60	0.00	-0.003	0.008	3651	222222222
4	4003.8	1.412	1.095	27.790	37.043	45.881	34.690	34.687	3.55	149.81	2.61	37.40	0.00	0.004	-0.005	3944	222222222
3	4353.4	1.369	1.015	27.799	37.056	45.899	34.695	34.694	3.90	141.80	2.52	36.40	0.00	0.002	-0.005	4285	222222222
2	5074.3	1.396	0.956	27.803	37.064	45.910	34.695	34.697	4.08	137.53	2.48	35.90	0.00	0.000	-0.005	4986	222222252
1	5081.2	1.397	0.956	27.804	37.065	45.911	34.696	34.697	4.07	137.94	2.49	35.90	0.00	-0.003	-0.005	4993	222222222

CRUISE: MW 893 STA: 129 DATE (D/M/Y): 12- 4-89 TIME: 1544 LAT: 9 29.22 N LONG: 154 30.49 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24038E-04 1/S SOUND SPEED= 1507.2 M/S Depth= 5210 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.524	34.855	4.38	26.524	22.762	31.034	38.954	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	26.524	34.855	4.38	26.523	22.762	31.034	38.954	0.015	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.539	34.848	4.73	26.535	22.753	31.025	38.945	0.102	0.1	0.03	-0.008	-0.35	-0.215	20.0
30	26.541	34.847	4.69	26.534	22.753	31.025	38.945	0.153	0.2	-0.06	-0.038	-0.26	-0.185	30.0
40	26.543	34.848	4.67	26.534	22.753	31.025	38.945	0.204	0.4	-0.11	0.013	1.05	0.374	40.0
50	26.544	34.848	4.66	26.533	22.753	31.026	38.945	0.255	0.7	-0.05	0.132	2.72	0.603	50.0
100	17.655	34.604	3.77	17.638	25.058	33.588	41.750	0.477	2.3	-216.82	-8.426	1156.15	12.428	99.9
125	14.243	34.444	2.45	14.225	25.711	34.362	42.637	0.542	3.0	-135.11	2.766	717.63	9.791	124.8
150	12.429	34.710	0.48	12.409	26.286	35.002	43.339	0.590	3.7	-25.40	3.876	191.91	5.063	149.7
200	11.437	34.737	0.39	11.412	26.496	35.252	43.624	0.673	5.2	-16.28	-0.379	65.13	2.950	199.5
250	10.771	34.718	0.49	10.741	26.603	35.387	43.786	0.749	6.9	-10.34	-0.296	39.06	2.284	249.2
300	10 304	34.705	0.49	10.268	26.676	35.480	43.897	0.821	9.0	-8.67	-0.288	31.29	2.044	298.9
350	9.883	34.692	0.36	9.842	26.739	35.561	43.995	0.891	11.3	-7.18	-0.311	24.01	1.791	348.6
400	9.476	34.669	0.24	9.431	26.789	35.629	44.080	0.959	13.9	-9.72	-0.538	29.67	1.991	398.3
450	9.065	34.648	0.21	9.015	26.840	35.699	44.167	1.025	16.7	-11.86	-0.624	35.77	2.186	448.0
500	8.441	34.614	0.21	8.388	26.912	35.799	44.293	1.088	19.8	-11.74	-0.644	33.54	2.117	497.7
600	7.372	34.568	0.24	7.312	27.035	35.971	44.512	1.205	26.3	-9.58	-0.322	29.14	1.973	597.0
700	6.453	34.544	0.44	6.388	27.142	36.122	44.704	1.312	33.4	-7.11	-0.058	23.82	1.784	696.2
800	5.730	34.545	0.60	5.660	27.236	36.250	44.865	1.410	40.9	-7.01	0.083	25.24	1.836	795.4
900	5.194	34.551	0.68	5.118	27.306	36.347	44.987	1.500	48.7	-5.16	0.078	18.33	1.565	894.5
1000	4.768	34.557	0.87	4.686	27.360	36.423	45.083	1.585	56.9	-3.80	0.056	13.26	1.331	993.6
1200	4.066	34.571	1.23	3.973	27.448	36.547	45.241	1.741	74.4	-3.43	0.092	12.43	1.289	1191.6
1400	3.444	34.587	1.57	3.340	27.524	36.655	45.380	1.881	93.0	-2.69	0.066	9.53	1.128	1389.4
1600	2.951	34.604	1.74	2.836	27.584	36.742	45.492	2.009	112.6	-2.28	0.080	8.55	1.068	1587.0
1800	2.514	34.623	2.02	2.387	27.638	36.820	45.592	2.126	132.7	-2.00	0.094	7.93	1.029	1784.3
2000	2.221	34.638	2.26	2.081	27.675	36.874	45.661	2.233	153.4	-1.21	0.065	4.99	0.816	1981.5
2200	2.030	34.651	2.44	1.876	27.702	36.911	45.709	2.333	174.9	-0.77	0.052	3.41	0.675	2178.6
2400	1.914	34.659	2.57	1.744	27.718	36.935	45.740	2.430	197.7	-0.56	0.036	2.52	0.580	2375.4
2600	1.855	34.664	2.64	1.668	27.728	36.949	45.757	2.525	222.0	-0.45	0.023	1.94	0.509	2572.0
2800	1.778	34.668	2.75	1.574	27.739	36.965	45.778	2.620	247.9	-0.42	0.019	1.82	0.493	2768.5
3000	1.716	34.672	2.85	1.494	27.747	36.978	45.796	2.713	275.5	-0.39	0.018	1.71	0.478	2964.8
3200	1.652	34.676	2.97	1.412	27.756	36.992	45.813	2.805	304.7	-0.40	0.017	1.79	0.489	3160.9
3400	1.598	34.679	3.08	1.339	27.764	37.003	45.829	2.897	335.4	-0.42	0.019	1.94	0.509	3356.8
3600	1.535	34.683	3.27	1.258	27.773	37.017	45.846	2.987	367.6	-0.35	0.016	1.64	0.467	3552.6
3800	1.483	34.686	3.43	1.186	27.781	37.028	45.862	3.076	401.3	-0.40	0.019	1.93	0.508	3748.1
4000	1.439	34.689	3.60	1.121	27.787	37.039	45.876	3.164	436.3	-0.38	0.017	1.86	0.498	3943.5
4200	1.395	34.692	3.77	1.057	27.794	37.049	45.890	3.251	472.8	-0.29	0.013	1.45	0.439	4138.8
4400	1.355	34.695	3.94	0.995	27.801	37.059	45.903	3.337	510.6	-0.15	0.007	0.78	0.324	4333.8
4600	1.363	34.696	3.99	0.980	27.803	37.062	45.906	3.424	550.4	-0.06	0.002	0.30	0.200	4528.7
4800	1.378	34.697	4.02	0.972	27.804	37.063	45.908	3.512	592.6	-0.04	0.002	0.20	0.164	4723.5
5000	1.397	34.697	4.04	0.966	27.804	37.064	45.909	3.601	637.2	-0.02	0.001	0.11	0.121	4918.0
5200	1.418	34.697	4.06	0.962	27.805	37.065	45.910	3.692	684.5	-0.02	0.003	0.11	0.000	5112.4
5289	1.429	34.697	4.04	0.961	27.805	37.065	45.910	3.733	706.4	0.00	0.002	0.11	0.000	5198.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.0	26.549	26.548	22.742	31.014	38.934	34.840	34.841	4.82	1.52	0.30	0.37	0.03	1.729	0.920	6	222222222
23	47.5	26.546	26.536	22.747	31.020	38.939	34.841	34.842	4.87	1.52	0.31	0.49	0.01	1.723	0.930	47	222222222
22	70.2	26.483	26.468	22.782	31.056	38.977	34.859	34.854	4.82	1.73	0.33	0.68	0.02	1.742	0.914	69	222222222
21	96.3	21.724	21.706	24.123	32.525	40.567	34.765	34.754	4.36	3.15	0.50	2.02	0.08	1.869	0.998	95	222222222
20	122.8	14.852	14.833	25.587	34.216	42.470	34.452	34.459	2.66	13.19	1.44	17.01	0.89	1.448	0.729	122	222222222
19	147.4	12.309	12.289	26.318	35.039	43.379	34.722	34.718	0.25	28.22	2.54	34.48	0.02	0.204	0.116	146	222222222
18	172.7	11.616	11.594	26.466	35.215	43.581	34.742	34.737	0.27	29.84	2.55	35.10	0.00	0.124		171	222222225
17	197.2	11.218	11.193	26.530	35.295	43.676	34.730	34.732	0.36	30.96	2.56	35.10	0.00	0.098		195	222222225
16	247.4	10.617	10.587	26.628	35.418	43.823	34.715	34.722	0.50	32.99	2.56	35.90	0.00	0.073		245	222222225
15	296.8	10.147	10.112	26.703	35.513	43.937	34.705	34.701	0.40	35.02	2.63	36.30	0.00	0.047		294	222222225
14	396.0	9.349	9.305	26.804	35.650	44.106	34.662	34.661	0.23	40.80	2.81	37.70	0.00		0.014	393	222222252
13	496.8	8.361	8.309	26.922	35.812	44.310	34.611	34.609	0.25	50.24	2.96	39.20	0.00	0.005	0.006	493	222222222
12	623.4	7.162	7.102	27.059	36.004	44.555	34.561	34.559	0.31	63.64	3.15	41.90	0.00	-0.002	0.011	618	222222222
11	796.4	5.800	5.729	27.222	36.233	44.845	34.538	34.538	0.78	79.47	3.18	44.30	0.00			790	222222255
10	996.5	4.800	4.718	27.356	36.418	45.076	34.557	34.556	0.88	94.90	3.27	45.40	0.00	0.001	0.009	988	222222222
9	1498.0	3.164	3.054	27.560	36.707	45.446	34.599	34.596	1.71	127.69	3.07	42.90	0.00	0.000	0.004	1484	222222252
8	1993.0	2.173	2.035	27.682	36.883	45.673	34.641	34.643	2.33	148.70	2.89	40.70	0.00	-0.005	0.002	1972	222222222
7	2501.0	1.866	1.688	27.725	36.945	45.752	34.662	34.665	2.63	155.90	2.82	40.20	0.00	-0.002	-0.005	2472	222222222
6	3002.3	1.713	1.492	27.748	36.978	45.796	34.672	34.675	2.90	158.24	2.77	39.50	0.00	0.002	-0.005	2964	222222222
5	3504.4	1.572	1.304	27.767	37.008	45.836	34.680	34.682	3.19	157.22	2.68	37.90	0.00	-0.005	-0.005	3456	222222222
4	4002.8	1.451	1.133	27.785	37.036	45.872	34.687	34.686	3.58	149.21	2.59	37.40	0.00	0.002	-0.005	3943	222222222
3	4504.4	1.359	0.988	27.801	37.060	45.904	34.695	34.696	3.99	140.98	2.51	36.20	0.00	-0.004	-0.005	4432	222222222
2	4753.3	1.375	0.975	27.802	37.062	45.907	34.696	34.696	4.07	140.27	2.49	36.10	0.00	0.003	0.000	4674	222222225
1	5290.3	1.429	0.962	27.804	37.064	45.909	34.696	34.696	4.06	139.26	2.50	35.89	0.01	-0.009	-0.005	5196	222222222

CRUISE: MW 893 STA: 130 DATE (D/M/Y): 13- 4-89 TIME: 0041 LAT: 9 29.53 N LONG: 153 40.24 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24051E-04 1/S SOUND SPEED= 1507.1 M/S Depth= 5209 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.687	34.787	5.35	26.687	22.659	30.928	38.845	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	26.687	34.787	5.35	26.686	22.659	30.928	38.845	0.016	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.563	34.779	5.03	26.558	22.694	30.966	38.886	0.104	0.1	-9.59	-0.151	68.54	3.025	20.0
30	26.522	34.779	5.03	26.515	22.707	30.980	38.901	0.155	0.2	-0.94	0.131	9.35	1.117	30.0
40	26.518	34.780	4.99	26.509	22.710	30.984	38.905	0.207	0.4	-0.50	0.357	10.10	1.161	40.0
50	26.520	34.787	4.95	26.509	22.715	30.989	38.910	0.258	0.7	-0.16	1.284	23.95	1.788	50.0
100	17.499	34.578	4.44	17.482	25.076	33.611	41.778	0.487	2.4	-264.56	-8.638	1471.04	14.014	99.9
125	13.821	34.438	2.93	13.803	25.795	34.462	42.751	0.551	3.1	-98.41	-0.817	499.01	8.162	124.8
150	12.482	34.585	1.02	12.462	26.178	34.894	43.230	0.603	3.8	-30.20	7.963	298.96	6.318	149.7
200	11.475	34.731	0.43	11.450	26.484	35.239	43.610	0.688	5.3	-18.54	0.340	89.11	3.449	199.5
250	10.842	34.723	0.54	10.811	26.594	35.375	43.771	0.765	7.1	-13.28	-0.440	49.42	2.569	249.2
300	10.308	34.706	0.50	10.272	26.676	35.480	43.897	0.838	9.1	-8.20	-0.138	32.08	2.069	298.9
350	9.894	34.694	0.35	9.854	26.738	35.560	43.994	0.908	11.5	-8.46	-0.418	27.39	1.912	348.7
400	9.403	34.666	0.21	9.358	26.799	35.642	44.096	0.976	14.0	-9.62	-0.453	30.73	2.026	398.4
450	8.941	34.642	0.16	8.892	26.856	35.719	44.193	1.041	16.9	-10.05	-0.617	28.51	1.951	448.0
500	8.391	34.614	0.17	8.339	26.920	35.808	44.305	1.103	19.9	-11.72	-0.544	35.20	2.168	497.7
600	7.315	34.563	0.27	7.256	27.039	35.977	44.521	1.220	26.5	-11.39	-0.441	33.31	2.109	597.0
700	6.201	34.532	0.74	6.138	27.165	36.157	44.750	1.326	33.4	-8.39	-0.123	26.80	1.892	696.2
800	5.537	34.536	0.59	5.469	27.252	36.276	44.900	1.422	40.8	-6.48	0.071	22.94	1.750	795.4
900	5.034	34.541	0.77	4.960	27.316	36.365	45.013	1.510	48.4	-4.29	0.069	15.15	1.422	894.5
1000	4.622	34.549	0.84	4.541	27.370	36.440	45.107	1.593	56.5	-3.79	0.096	13.83	1.359	993.6
1200	3.925	34.569	1.16	3.833	27.461	36.567	45.268	1.747	73.6	-3.29	0.108	12.24	1.279	1191.6
1400	3.372	34.589	1.46	3.269	27.532	36.668	45.396	1.884	91.9	-2.59	0.090	9.61	1.133	1389.4
1600	2.923	34.606	1.74	2.807	27.588	36.748	45.499	2.010	111.1	-2.06	0.077	7.76	1.018	1587.0
1800	2.463	34.626	2.04	2.337	27.644	36.829	45.604	2.125	131.0	-2.12	0.096	8.34	1.055	1784.3
2000	2.169	34.641	2.31	2.030	27.682	36.883	45.674	2.230	151.4	-1.12	0.062	4.69	0.791	1981.5
2200	2.011	34.652	2.48	1.857	27.704	36.915	45.714	2.330	172.8	-0.84	0.049	3.60	0.693	2178.5
2400	1.917	34.659	2.59	1.747	27.718	36.935	45.739	2.427	195.5	-0.50	0.031	2.21	0.543	2375.4
2600	1.827	34.665	2.70	1.641	27.731	36.954	45.764	2.522	219.7	-0.53	0.030	2.34	0.560	2572.0
2800	1.752	34.670	2.81	1.549	27.742	36.969	45.784	2.615	245.4	-0.49	0.025	2.16	0.537	2768.5
3000	1.680	34.675	2.91	1.459	27.752	36.984	45.804	2.707	272.6	-0.42	0.015	1.78	0.488	2964.8
3200	1.617	34.678	3.08	1.378	27.760	36.997	45.821	2.798	301.3	-0.45	0.021	2.04	0.522	3160.9
3400	1.549	34.681	3.20	1.291	27.769	37.011	45.839	2.888	331.5	-0.41	0.018	1.85	0.497	3356.8
3600	1.499	34.685	3.38	1.222	27.777	37.022	45.854	2.976	363.2	-0.37	0.018	1.77	0.487	3552.5
3800	1.443	34.688	3.57	1.147	27.785	37.035	45.871	3.064	396.3	-0.37	0.018	1.78	0.488	3748.1
4000	1.405	34.691	3.73	1.088	27.791	37.044	45.883	3.151	430.8	-0.40	0.019	1.96	0.511	3943.5
4200	1.347	34.695	3.93	1.011	27.800	37.057	45.900	3.236	466.6	-0.23	0.009	1.15	0.391	4138.8
4400	1.347	34.696	4.00	0.988	27.802	37.061	45.905	3.322	504.1	-0.11	0.005	0.57	0.275	4333.8
4600	1.358	34.697	4.03	0.976	27.803	37.063	45.907	3.408	543.7	-0.04	0.002	0.22	0.170	4528.7
4800	1.375	34.697	4.05	0.969	27.804	37.064	45.909	3.496	585.7	-0.02	0.002	0.14	0.138	4723.4
5000	1.399	34.697	4.04	0.968	27.804	37.064	45.909	3.585	630.4	-0.01	0.001	0.05	0.084	4918.0
5200	1.420	34.698	4.05	0.964	27.805	37.065	45.910	3.676	677.7	-0.03	0.002	0.05	0.000	5112.4
5289	1.430	34.697	4.03	0.962	27.804	37.065	45.910	3.717	699.6	-0.02	0.001	0.05	0.000	5198.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.1	26.635	26.634	22.671	30.941	38.859	34.781	34.782	4.94	1.42	0.27	-0.01	0.01	1.736	0.955	6	222222222
23	47.3	26.517	26.507	22.714	30.988	38.909	34.785	34.784	4.93	1.62	0.27	0.00	0.00	1.748	0.958	47	222222222
22	98.0	19.396	19.378	24.762	33.234	41.340	34.786	34.716	4.53	2.94	0.45	0.48	0.02	1.918	1.003	97	222222222
21	146.8	12.563	12.543	26.093	34.808	43.141	34.496	34.541	0.94	24.46	2.29	29.77	0.03	0.630	0.329	145	222222222
20	196.3	11.572	11.547	26.465	35.215	43.583	34.729	34.726	0.23	29.74	2.56	34.90	0.00	0.130		195	222222225
19	247.6	10.846	10.816	26.596	35.376	43.772	34.726	34.725	0.42	31.47	2.55	35.30	0.00	0.084		246	222222225
18	297.8	10.317	10.282	26.673	35.476	43.893	34.705	34.703	0.43	33.60	2.59	36.20	0.00	0.060		295	222222225
17	397.9	9.538	9.493	26.783	35.620	44.068	34.674	34.671	0.21	38.47	2.78	38.00	0.00	0.013		395	222222225
16	496.5	8.579	8.526	26.895	35.775	44.264	34.619	34.621	0.21	46.79	2.94	38.70	0.00	0.013		493	222222225
15	599.1	7.696	7.636	26.992	35.913	44.440	34.573	34.575	0.36	54.81	3.04	39.90	0.00	0.002		594	222222225
14	795.1	5.837	5.766	27.212	36.222	44.832	34.531	34.543	0.58	77.34	3.20	43.50	0.00		0.015	789	222222252
13	998.3	4.670	4.589	27.363	36.431	45.096	34.547	34.551	0.86	97.24	3.27	44.70	0.00	-0.004	0.006	990	222222222
12	1246.4	3.699	3.605	27.489	36.607	45.319	34.576	34.580	1.28	117.03	3.19	43.70	0.00	-0.001	-0.005	1235	222222222
11	1497.5	3.105	2.996	27.567	36.716	45.458	34.600	34.601	1.58	130.53	3.11	42.90	0.00	0.002	0.008	1483	222222222
10	1999.9	2.145	2.007	27.685	36.887	45.678	34.642	34.643	2.28	152.25	2.91	40.80	0.00			1979	222222255
9	2349.8	1.917	1.752	27.718	36.934	45.738	34.659	34.659	2.55	156.82	2.84	40.10	0.00	-0.004	-0.005	2323	222222222
8	2699.9	1.762	1.568	27.740	36.966	45.780	34.669	34.669	2.79	159.25	2.79	39.50	0.00			2667	222222255
7	3005.6	1.665	1.444	27.753	36.987	45.807	34.675	34.676	2.93	159.76	2.75	39.10	0.00	-0.002	-0.005	2967	222222222
6	3501.6	1.525	1.258	27.773	37.017	45.847	34.683	34.684	3.28	157.53	2.67	38.00	0.00			3453	222222255
5	4003.6	1.390	1.074	27.793	37.046	45.886	34.692	34.694	3.76	147.89	2.56	36.60	0.00	-0.003	-0.005	3943	222222222
4	4353.1	1.346	0.993	27.801	37.059	45.903	34.695	34.698	3.97	142.51	2.52	35.90	0.00			4284	222222255
3	4705.1	1.367	0.973	27.803	37.063	45.908	34.696	34.698	4.03	141.09	2.50	35.70	0.00	-0.004	0.005	4627	222222222
2	4903.4	1.387	0.968	27.803	37.063	45.908	34.696	34.697	4.02	140.58	2.51	35.60	0.00			4820	222222255
1	5291.5	1.430	0.962	27.803	37.064	45.909	34.696	34.696	4.03	140.37	2.49	35.60	0.00	-0.008	-0.005	5197	222222222

CRUISE: MW 893 STA: 131 DATE (D/M/Y): 13- 4-89 TIME: 0935 LAT: 9 29.67 N LONG: 152 50.38 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24057E-04 1/S SOUND SPEED= 1506.8 M/S Depth= 5168 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.043	34.647	4.33	26.043	22.756	31.042	38.976	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.043	34.647	4.33	26.042	22.756	31.042	38.976	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.056	34.637	5.02	26.052	22.746	31.032	38.965	0.102	0.1	-0.27	0.107	3.85	0.716	20.0
30	26.056	34.641	4.93	26.049	22.749	31.035	38.968	0.153	0.2	-0.42	0.570	13.20	1.327	30.0
40	26.121	34.687	4.83	26.112	22.765	31.049	38.980	0.204	0.4	16.11	9.295	46.42	2.489	40.0
50	26.206	34.742	4.90	26.195	22.779	31.061	38.990	0.255	0.7	0.48	0.983	13.93	1.363	50.0
100	18.605	34.610	3.80	18.587	24.828	33.327	41.459	0.485	2.4	-249.42	-5.896	1421.44	13.774	99.9
125	14.362	34.447	2.50	14.344	25.688	34.334	42.605	0.552	3.1	-117.27	-1.069	555.49	8.611	124.8
150	12.263	34.648	0.18	12.244	26.270	34.994	43.337	0.602	3.8	-30.01	7.475	291.27	6.235	149.7
200	11.177	34.730	0.36	11.153	26.538	35.305	43.688	0.684	5.3	-13.57	-0.083	58.11	2.785	199.5
250	10.563	34.715	0.48	10.533	26 637	35.430	43.836	0.758	7.0	-10.83	-0.282	41.08	2.342	249.2
300	10.079	34.700	0.34	10.044	26.710	35.524	43.950	0.830	9.0	-9.46	-0.226	35.37	2.173	298.9
350	9.756	34.691	0.28	9.716	26.759	35.586	44.026	0.898	11.3	-5.13	-0.229	16.91	1.502	348.6
400	9.477	34.676	0.21	9.432	26.795	35.634	44.085	0.965	13.8	-6.97	-0.417	20.70	1.662	398.3
450	9.066	34.651	0.18	9.016	26.843	35.701	44.169	1.031	16.7	-8.68	-0.458	26.21	1.871	448.0
500	8.609	34.625	0.18	8.555	26.895	35.774	44.261	1.094	19.7	-10.42	-0.605	29.55	1.986	497.7
600	7.536	34.576	0.17	7.476	27.018	35.946	44.480	1.214	26.4	-10.51	-0.391	31.76	2.059	597.0
700	6.638	34.548	0.30	6.572	27.121	36.092	44.666	1.323	33.7	-10.12	-0.211	31.37	2.046	696.2
800	5.713	34.536	0.53	5.643	27.231	36.247	44.863	1.421	41.2	-5.72	0.083	20.54	1.656	795.4
900	5.015	34.545	0.80	4.941	27.321	36.372	45.020	1.511	48.9	-6.08	0.091	21.50	1.694	894.5
1000	4.558	34.553	1.00	4.478	27.380	36.453	45.123	1.593	56.9	-3.91	0.079	13.90	1.362	993.6
1200	3.885	34.572	1.31	3.794	27.467	36.575	45.278	1.745	73.9	-3.37	0.106	12.41	1.287	1191.6
1400	3.302	34.592	1.56	3.199	27.541	36.680	45.411	1.881	91.9	-2.55	0.082	9.35	1.117	1389.4
1600	2.843	34.608	1.82	2.729	27.597	36.761	45.516	2.005	110.8	-2.57	0.101	9.71	1.138	1586.9
1800	2.406	34.628	2.10	2.280	27.651	36.839	45.617	2.117	130.3	-1.74	0.085	6.89	0.959	1784.3
2000	2.130	34.644	2.28	1.992	27.687	36.891	45.683	2.220	150.2	-1.04	0.062	4.38	0.764	1981.5
2200	1.963	34.656	2.45	1.810	27.711	36.924	45.725	2.318	171.2	-0.69	0.047	3.08	0.641	2178.5
2400	1.868	34.663	2.57	1.699	27.725	36.944	45.751	2.413	193.4	-0.44	0.027	1.95	0.511	2375.4
2600	1.797	34.668	2.66	1.612	27.735	36.959	45.771	2.506	217.3	-0.47	0.024	2.04	0.521	2572.0
2800	1.730	34.671	2.75	1.527	27.745	36.973	45.789	2.599	242.7	-0.46	0.020	1.97	0.513	2768.5
3000	1.661	34.675	2.87	1.441	27.754	36.987	45.807	2.690	269.8	-0.43	0.017	1.85	0.497	2964.7
3200	1.601	34.678	3.01	1.363	27.762	37.000	45.824	2.780	298.3	-0.39	0.017	1.73	0.481	3160.8
3400	1.542	34.681	3.15	1.285	27.770	37.012	45.840	2.870	328.4	-0.41	0.019	1.87	0.499	3356.8
3600	1.479	34.685	3.38	1.203	27.779	37.025	45.858	2.958	359.9	-0.39	0.018	1.84	0.496	3552.5
3800	1.424	34.689	3.57	1.129	27.787	37.037	45.874	3.045	392.6	-0.33	0.018	1.63	0.467	3748.1
4000	1.376	34.692	3.74	1.061	27.794	37.049	45.889	3.130	426.8	-0.32	0.015	1.58	0.459	3943.5
4200	1.332	34.696	3.92	0.996	27.801	37.059	45.903	3.215	462.3	-0.16	0.007	0.78	0.324	4138.7
4400	1.346	34.696	3.96	0.988	27.802	37.061	45.905	3.300	499.6	-0.05	0.003	0.27	0.190	4333.8
4600	1.355	34.697	4.00	0.973	27.803	37.063	45.908	3.387	539.3	-0.05	0.003	0.26	0.186	4528.7
4800	1.372	34.697	4.02	0.966	27.804	37.064	45.909	3.474	581.3	-0.02	0.002	0.15	0.142	4723.4
5000	1.396	34.697	4.02	0.965	27.804	37.064	45.910	3.564	625.8	-0.01	0.000	0.05	0.079	4918.0
5200	1.417	34.698	4.01	0.961	27.805	37.065	45.911	3.654	673.1	-0.02	0.002	0.05	0.000	5112.4
5263	1.425	34.697	4.02	0.961	27.805	37.065	45.910	3.683	688.5	-0.02	0.001	0.05	0.000	5173.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	46.7	26.244	26.234	22.789	31.069	38.997	34.770	34.768	4.90	1.73	0.29	0.10	0.00	1.762	0.982	46	222222222
23	97.3	20.642	20.624	24.324	32.759	40.832	34.641	34.637	4.25	4.26	0.61	3.63	0.07	1.822	0.941	96	222222222
22	148.6	12.410	12.390	26.205	34.924	43.262	34.601	34.601	0.52	26.59	2.48	31.77	0.03	0.424	0.233	147	222222222
21	197.7	11.391	11.366	26.491	35.249	43.624	34.720	34.722	0.70	30.65	2.60	34.90	0.00	0.285		196	222222225
20	246.3	10.868	10.838	26.587	35.367	43.762	34.720	34.726	0.43	31.67	2.55	35.10	0.00	0.083	0.057	244	222222222
19	298.0	10.373	10.338	26.665	35.466	43.881	34.707	34.709						1.176	0.600	296	225555522
18	396.4	9.639	9.594	26.772	35.605	44.049	34.682	34.681	0.24	38.06	2.76	37.70	0.00	0.020		393	222222225
17	496.9	8.770	8.716	26.885	35.756	44.237	34.644	34.629	0.19	45.78	2.88	38.70	0.00	0.001		493	222222225
16	598.9	7.605	7.545	27.006	35.931	44.462	34.573		0.19	57.45	3.12	40.30	0.00	0.004	0.015	594	252222222
15	797.1	5.726	5.656	27.228	36.243	44.858	34.534	34.536	0.54	79.88	3.24	44.10	0.00	-0.004	0.002	791	222222222
14	999.2	4.591	4.510	27.375	36.447	45.116	34.552	34.556	0.98	98.25	3.24	44.10	0.00			991	222222255
13	1249.1	3.635	3.541	27.498	36.619	45.334	34.580	34.578	1.41	117.84	3.16	43.20	0.00	-0.004	0.010	1238	222222222
12	1497.6	2.991	2.883	27.578	36.734	45.481	34.602	34.600	1.74	132.56	3.07	42.30	0.00	-0.004	0.007	1483	222222222
11	1999.6	2.109	1.971	27.690	36.894	45.687	34.645	34.645	2.36	152.76	2.92	40.70	0.00			1978	222222255
10	2175.5	1.986	1.835	27.707	36.919	45.719	34.654	34.654	2.41	156.01	2.90	40.60	0.00	0.001	0.010	2152	222222222
8	2700.7	1.774	1.580	27.739	36.965	45.778	34.669	34.672	2.68	160.98	2.82	39.70	0.00	-0.006	0.002	2668	222222222
7	3001.8	1.680	1.459	27.752	36.984	45.804	34.674	34.674	2.85	161.79	2.77	39.30	0.00			2963	222222255
6	3503.4	1.517	1.250	27.773	37.017	45.847	34.682	34.684	3.27	158.34	2.70	38.10	0.00	-0.004	-0.005	3455	222222222
5	4003.5	1.377	1.061	27.794	37.048	45.888	34.692	34.692	3.77	147.38	2.58	36.50	0.00			3943	222222255
4	4354.6	1.344	0.990	27.800	37.059	45.903	34.694	34.692		142.00	2.56	36.10	0.00	0.000	0.006	4286	225222252
3	4704.8	1.366	0.972	27.802	37.062	45.907	34.695	34.696	4.02	140.88	2.51	35.60	0.00			4627	222222255
2	4905.8	1.384	0.965	27.804	37.064	45.909	34.697	34.696	4.04	140.37	2.50	35.50	0.00	-0.004	-0.005	4822	222222222
1	5267.7	1.425	0.961	27.804	37.064	45.910	34.697	34.696	4.05	140.17	2.53	35.70	0.00	-0.006	-0.005	5174	222222222

CRUISE: MW 893 STA: 132 DATE (D/M/Y): 13- 4-89 TIME: 1848 LAT: 9 30.00 N LONG: 152 0.36 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24071E-04 1/S SOUND SPEED= 1507.4 M/S Depth= 5255 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.250	34.718	4.62	26.250	22.744	31.025	38.952	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
9	26.250	34.718	4.62	26.248	22.745	31.026	38.953	0.046	0.0	-0.45	0.000	0.00	0.000	9.0
20	26.248	34.718	4.85	26.244	22.746	31.027	38.955	0.102	0.1	0.05	-0.006	-0.45	-0.244	20.0
30	26.251	34.718	4.78	26.244	22.746	31.027	38.955	0.153	0.3	0.01	0.016	0.24	0.178	30.0
40	26.251	34.718	4.77	26.242	22.747	31.028	38.956	0.204	0.4	-0.48	0.009	3.69	0.702	40.0
50	26.248	34.718	4.78	26.237	22.748	31.029	38.957	0.255	0.7	-1.08	0.391	14.88	1.409	50.0
100	19.781	34.709	4.23	19.763	24.603	33.064	41.161	0.494	2.5	-291.21	-8.188	1673.29	14.941	99.9
125	14.068	34.454	2.13	14.050	25.755	34.413	42.694	0.563	3.2	-117.57	1.425	662.87	9.404	124.8
150	12.702	34.643	0.76	12.681	26.180	34.887	43.214	0.614	4.0	-29.32	5.031	240.72	5.667	149.7
200	11.395	34.727	0.51	11.370	26.496	35.253	43.628	0.700	5.5	-26.16	-0.469	107.76	3.792	199.5
250	10.643	34.712	0.57	10.613	26.621	35.410	43.814	0.775	7.2	-8.21	-0.007	35.05	2.162	249.2
300	10.214	34.701	0.55	10.179	26.688	35.496	43.917	0.847	9.2	-7.28	-0.167	27.56	1.918	299.0
350	9.784	34.688	0.49	9.743	26.752	35.578	44.016	0.917	11.5	-9.34	-0.360	31.92	2.064	348.7
400	9.425	34.673	0.33	9.380	26.801	35.643	44.096	0.984	14.1	-5.44	-0.260	17.37	1.522	398.4
450	9.088	34.650	0.28	9.039	26.839	35.696	44.163	1.049	16.9	-9.02	-0.622	24.71	1.816	448.0
500	8.626	34.623	0.31	8.572	26.890	35.768	44.255	1.113	20.0	-9.61	-0.526	27.91	1.930	497.7
600	7.571	34.569	0.42	7.511	27.008	35.934	44.467	1.233	26.8	-10.66	-0.463	31.16	2.039	597.0
700	6.607	34.537	0.47	6.541	27.117	36.089	44.665	1.343	34.0	-10.25	-0.197	32.32	2.076	696.3
800	5.789	34.533	0.42	5.719	27.219	36.231	44.844	1.442	41.6	-6.39	0.078	22.90	1.748	795.4
900	5.133	34.535	0.80	5.058	27.300	36.344	44.987	1.533	49.5	-5.96	0.102	21.36	1.688	894.6
1000	4.635	34.549	0.91	4.555	27.368	36.438	45.104	1.618	57.7	-4.21	0.170	16.70	1.493	993.6
1200	3.845	34.571	1.22	3.754	27.471	36.581	45.286	1.770	74.7	-3.34	0.113	12.46	1.289	1191.6
1400	3.285	34.593	1.54	3.183	27.543	36.683	45.416	1.906	92.7	-2.94	0.099	10.82	1.202	1389.4
1600	2.759	34.611	1.93	2.646	27.607	36.775	45.534	2.028	111.4	-2.34	0.087	8.73	1.079	1587.0
1800	2.375	34.629	2.13	2.250	27.655	36.844	45.623	2.139	130.6	-1.51	0.074	5.99	0.894	1784.4
2000	2.125	34.644	2.35	1.986	27.687	36.891	45.683	2.242	150.6	-1.05	0.061	4.39	0.765	1981.6
2200	1.974	34.654	2.50	1.821	27.709	36.922	45.722	2.340	171.6	-0.67	0.040	2.89	0.621	2178.6
2400	1.887	34.661	2.59	1.718	27.722	36.940	45.746	2.435	194.0	-0.50	0.031	2.19	0.541	2375.4
2600	1.811	34.666	2.69	1.625	27.733	36.956	45.767	2.529	217.9	-0.37	0.020	1.63	0.467	2572.0
2800	1.754	34.670	2.77	1.551	27.742	36.969	45.784	2.623	243.6	-0.45	0.021	1.95	0.510	2768.5
3000	1.693	34.673	2.88	1.471	27.750	36.982	45.800	2.715	270.9	-0.34	0.015	1.51	0.448	2964.8
3200	1.623	34.677	2.99	1.384	27.759	36.996	45.819	2.806	299.8	-0.43	0.017	1.90	0.503	3160.9
3400	1.565	34.681	3.12	1.307	27.768	37.009	45.836	2.896	330.1	-0.34	0.017	1.59	0.461	3356.8
3600	1.503	34.684	3.30	1.226	27.776	37.021	45.853	2.986	362.0	-0.42	0.021	2.02	0.519	3552.6
3800	1.458	34.687	3.49	1.161	27.783	37.032	45.867	3.074	395.2	-0.31	0.016	1.52	0.450	3748.1
4000	1.416	34.691	3.65	1.100	27.790	37.043	45.881	3.161	429.9	-0.44	0.021	2.16	0.536	3943.5
4200	1.377	34.693	3.81	1.040	27.796	37.052	45.893	3.247	466.0	-0.25	0.012	1.25	0.409	4138.8
4400	1.357	34.696	3.93	0.998	27.801	37.059	45.903	3.333	503.7	-0.09	0.003	0.44	0.241	4333.8
4600	1.371	34.696	3.96	0.989	27.802	37.060	45.904	3.420	543.5	-0.03	0.002	0.17	0.152	4528.7
4800	1.389	34.696	3.97	0.983	27.802	37.061	45.906	3.508	585.9	-0.02	0.001	0.12	0.125	4723.4
5000	1.412	34.696	3.98	0.980	27.803	37.062	45.906	3.598	630.8	-0.02	0.001	0.09	0.109	4918.0
5200	1.432	34.697	3.99	0.976	27.803	37.063	45.907	3.690	678.4	-0.04	0.003	0.24	0.179	5112.4
5337	1.445	34.697	4.01	0.971	27.804	37.064	45.909	3.753	712.5	-0.03	0.003	0.24	0.000	5245.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	6.3	26.292	26.290	22.725	31.005	38.931	34.709	34.708	4.93	1.62	0.24	0.01	-0.01	1.715	0.903	6	222222222
23	45.9	26.171	26.161	22.790	31.073	39.002	34.742	34.731	4.88	1.62	0.26	0.00	0.00	1.739	0.948	45	222222222
22	70.9	23.264	23.250	23.632	31.991	39.993	34.695	34.741	4.55	2.54	0.43	0.87	0.03	1.798	0.972	70	222222222
21	96.3	15.240	15.225	25.512	34.127	42.367	34.466	34.471	2.53	12.48	1.44	16.25	1.05	1.438	0.775	95	222222222
20	120.6	13.195	13.178	25.983	34.672	42.983	34.516	34.514	1.03	22.33	2.21	28.20	0.10	0.748	0.394	119	222222222
19	146.9	12.496	12.476	26.237	34.951	43.286	34.664	34.660	0.34	27.20	2.46	32.87	0.03	0.315	0.180	146	222222222
18	171.6	11.639	11.617	26.455	35.202	43.568	34.733	34.730	0.23	29.54	2.56	33.80	0.00	0.142		170	222222225
17	198.0	11.195	11.170	26.529	35.295	43.678	34.723	34.719	0.29	31.16	2.59	34.61	-0.01	0.097		196	222222225
16	247.6	10.590	10.560	26.628	35.420	43.825	34.709	34.708	0.44	32.78	2.57	35.21	-0.01	0.070	0.052	246	222222222
15	296.9	10.224	10.189	26.686	35.492	43.913	34.700	34.699	0.41	34.41	2.62	35.91	-0.01	0.051	0.037	295	222222222
14	395.6	9.526	9.481	26.787	35.625	44.074	34.677	34.675	0.23	38.37	2.78	37.60	0.00	0.040	0.034	392	222222222
13	496.8	8.608	8.555	26.892	35.771	44.259	34.621	34.619	0.22	46.79	2.90	38.40	0.00	0.006		493	222222225
12	622.8	7.379	7.318	27.027	35.962	44.503	34.558	34.556	0.41	58.87	3.06	40.10	0.00	0.002		617	222222225
11	797.8	5.776	5.706	27.218	36.231	44.844	34.530	34.529	0.40	80.29	3.29	43.80	0.00	0.002	0.013	791	222222222
10	997.1	4.665	4.584	27.361	36.429	45.094	34.544	34.543	0.92	96.93	3.23	43.80	0.00	0.009	0.007	989	222222222
9	1498.4	3.060	2.951	27.571	36.723	45.467	34.601	34.598	1.65	131.14	3.10	41.80	0.00	0.000	0.000	1484	222222255
8	1999.3	2.197	2.058	27.678	36.878	45.667	34.640	34.639	2.29	149.61	2.91	40.50	0.00	-0.004	-0.005	1978	222222222
7	2502.6	1.867	1.689	27.725	36.945	45.753	34.663	34.663	2.62	156.61	2.84	39.50	0.00	-0.004	-0.005	2473	222222222
6	3002.4	1.696	1.475	27.750	36.981	45.800	34.673	34.676	2.87	159.15	2.77	38.90	0.00	-0.003	-0.004	2964	222222222
5	3502.4	1.527	1.260	27.772	37.015	45.845	34.682	34.682	3.25	158.04	2.67	37.80	0.00	-0.002	-0.005	3454	222222222
4	4004.2	1.408	1.091	27.791	37.043	45.882	34.690	34.684		149.31	2.57	37.00	0.00	0.002	-0.004	3944	225222222
3	4504.8	1.366	0.995	27.801	37.059	45.903	34.695	34.694	3.94	142.00	2.52	35.70	0.00	-0.003	-0.004	4432	222222222
2	5004.4	1.413	0.981	27.801	37.060	45.905	34.695	34.697	3.99	140.98	2.51	35.50	0.00	-0.003	-0.004	4918	222222222
1	5340.8	1.445	0.971	27.804	37.063	45.908	34.697	34.696	4.00	139.66	2.51	35.29	0.01	-0.006	-0.005	5245	222222222

CRUISE: MW 893 STA: 133 DATE (D/M/Y): 14- 4-89 TIME: 0401 LAT: 9 29.04 N LONG: 151 10.53 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24031E-04 1/S SOUND SPEED= 1507.0 M/S Depth= 5193 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.460	34.856	3.74	26.460	22.783	31.057	38.978	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.460	34.856	3.74	26.460	22.783	31.057	38.978	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.464	34.863	4.79	26.460	22.788	31.062	38.983	0.101	0.1	0.47	0.336	2.46	0.573	20.0
30	26.468	34.868	4.76	26.462	22.791	31.065	38.986	0.152	0.2	0.13	0.655	10.66	1.194	30.0
40	26.463	34.876	4.78	26.454	22.800	31.074	38.995	0.203	0.4	-2.30	0.950	33.91	2.129	40.0
50	26.439	34.879	4.73	26.428	22.810	31.085	39.006	0.253	0.6	-2.05	-0.570	5.09	0.824	50.0
100	17.171	34.573	3.48	17.155	25.151	33.697	41.874	0.475	2.3	-267.42	-7.568	1464.86	13.991	99.9
125	13.041	34.584	0.99	13.024	26.066	34.761	43.076	0.535	3.0	-96.89	8.426	652.83	9.340	124.8
150	11.999	34.675	0.70	11.980	26.341	35.075	43.428	0.580	3.6	-25.26	1.965	152.70	4.517	149.7
200	10.891	34.708	0.70	10.866	26.572	35.351	43.745	0.660	5.0	-14.32	-0.028	61.44	2.865	199.4
250	10.330	34.696	0.90	10.300	26.664	35.466	43.882	0.733	6.7	-9.49	-0.182	36.56	2.210	249.2
300	9.945	34.688	1.02	9.910	26.724	35.543	43.975	0.803	8.7	-5.98	-0.154	21.91	1.711	298.9
350	9.693	34.680	1.10	9.653	26.761	35.591	44.033	0.871	10.9	-4.86	-0.145	17.23	1.517	348.6
400	9.432	34.671	0.80	9.387	26.798	35.640	44.093	0.938	13.5	-5.73	-0.275	18.21	1.560	398.3
450	9.123	34.652	0.74	9.073	26.835	35.690	44.156	1.004	16.3	-6.81	-0.380	20.31	1.647	448.0
500	8.768	34.634	0.22	8.714	26.877	35.749	44.230	1.068	19.4	-7.03	-0.339	21.50	1.695	497.7
600	7.647	34.566	0.30	7.587	26.994	35.917	44.447	1.190	26.3	-12.81	-0.597	36.94	2.222	597.0
700	6.583	34.536	0.37	6.517	27.119	36.092	44.669	1.301	33.6	-9.65	-0.161	31.09	2.038	696.2
800	5.738	34.528	0.50	5.668	27.222	36.236	44.851	1.460	41.2	-6.71	-0.002	22.54	1.736	795.4
900	5.168	34.541	0.53	5.092	27.301	36.344	44.985	1.491	49.1	-5.34	0.112	19.54	1.616	894.5
1000	4.697	34.548	0.78	4.616	27.360	36.427	45.091	1.576	57.3	-4.47	0.069	15.51	1.440	993.6
1200	3.817	34.571	1.21	3.726	27.473	36.585	45.291	1.728	74.4	-3.71	0.135	13.97	1.366	1191.6
1400	3.267	34.593	1.52	3.164	27.545	36.686	45.420	1.863	92.2	-3.10	0.108	11.43	1.236	1389.3
1600	2.756	34.612	1.79	2.643	27.607	36.776	45.535	1.984	110.7	-1.94	0.077	7.32	0.989	1586.9
1800	2.427	34.627	2.06	2.302	27.648	36.835	45.612	2.096	130.2	-1.80	0.085	7.12	0.975	1784.3
2000	2.148	34.642	2.30	2.009	27.685	36.887	45.678	2.201	150.3	-1.13	0.066	4.75	0.797	1981.5
2200	1.980	34.654	2.46	1.827	27.708	36.920	45.721	2.299	171.4	-0.69	0.045	3.04	0.638	2178.5
2400	1.893	34.661	2.54	1.723	27.722	36.940	45.745	2.395	193.9	-0.50	0.032	2.24	0.547	2375.3
2600	1.810	34.667	2.67	1.624	27.734	36.957	45.768	2.489	217.9	-0.44	0.021	1.87	0.500	2572.0
2800	1.744	34.670	2.78	1.541	27.743	36.970	45.786	2.582	243.5	-0.39	0.017	1.67	0.473	2768.4
3000	1.682	34.674	2.88	1.461	27.752	36.984	45.803	2.674	270.7	-0.46	0.020	2.02	0.519	2964.7
3200	1.609	34.678	3.02	1.370	27.761	36.998	45.822	2.765	299.4	-0.43	0.019	1.90	0.504	3160.8
3400	1.557	34.681	3.17	1.300	27.768	37.010	45.837	2.855	329.6	-0.38	0.015	1.69	0.475	3356.8
3600	1.492	34.685	3.37	1.216	27.777	37.023	45.855	2.943	361.3	-0.41	0.019	1.94	0.510	3552.5
3800	1.446	34.688	3.55	1.150	27.784	37.034	45.870	3.031	394.2	-0.28	0.015	1.38	0.430	3748.1
4000	1.398	34.691	3.72	1.082	27.792	37.045	45.884	3.117	428.7	-0.32	0.015	1.59	0.468	3943.5
4200	1.364	34.694	3.87	1.027	27.798	37.054	45.896	3.203	464.7	-0.20	0.010	1.03	0.371	4138.7
4400	1.365	34.695	3.93	1.005	27.800	37.058	45.901	3.289	502.4	-0.08	0.003	0.40	0.230	4333.8
4600	1.374	34.695	3.97	0.991	27.801	37.060	45.904	3.376	542.3	-0.04	0.001	0.21	0.166	4528.7
4800	1.393	34.696	3.99	0.986	27.802	37.061	45.905	3.465	584.7	-0.02	0.001	0.12	0.128	4723.4
5000	1.413	34.696	4.00	0.981	27.803	37.062	45.906	3.555	629.7	-0.02	0.001	0.10	0.114	4918.0
5200	1.432	34.697	4.02	0.975	27.803	37.063	45.907	3.646	677.3	-0.06	0.004	0.10	0.000	5112.4
5277	1.438	34.697	4.03	0.971	27.804	37.063	45.908	3.682	696.4	-0.06	0.004	0.10	0.000	5187.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL •• PSS78	SALNTY •• PSS78	OXYGEN •• ML/L	SILCAT •• UMOL/L	PHSPHT •• UMOL/L	NITRAT •• UMOL/L	NITRIT •• UMOL/L	CFC-11 •• PM/KG	CFC-12 •• PM/KG	DEPTH METERS	QUALT1
24	5.1	26.414	26.413	22.800	31.075	38.998	34.860	34.860	4.95	1.22	0.32	0.69	0.01	1.718	0.924	5	222222222
23	47.1	26.417	26.407	22.805	31.080	39.002	34.863	34.861	4.95	1.52	0.32	0.77	0.03	1.754	0.961	46	222222222
22	96.0	17.799	17.782	25.034	33.559	41.716	34.618	34.613	3.63	5.48	0.86	7.60	0.30	1.781	0.949	95	222222222
21	147.9	12.139	12.120	26.304	35.032	43.380	34.661	34.665	0.65	27.00	2.40	32.31	-0.01	0.316	0.199	147	222222222
20	197.6	10.923	10.899	26.569	35.346	43.739	34.710	34.698	0.71	30.35	2.45	34.01	-0.01	0.140	0.090	196	222222222
19	246.1	10.309	10.280	26.667	35.470	43.887	34.696	34.693	0.90	31.77	2.45	34.21	-0.01	0.106	0.070	244	222222222
18	296.7	9.875	9.841	26.734	35.556	43.990	34.686	34.683	1.14	32.38	2.44	34.21	-0.01	0.102		294	222222225
17	348.2	9.637	9.597	26.769	35.601	44.046	34.678	34.674	1.06	33.80	2.50	35.11	-0.01	0.075	0.054	345	222222222
16	397.2	9.448	9.403	26.797	35.638	44.090	34.673	34.670	0.74	35.73	2.63	36.41	-0.01	0.048	0.036	394	222222222
15	495.8	8.765	8.712	26.878	35.750	44.231	34.635	34.633	0.16	44.86	2.96	38.41	-0.01	0.007	0.012	492	222222222
14	597.8	7.581	7.522	27.002	35.928	44.460	34.564	34.563	0.30	55.72	3.07	39.80	0.00		0.012	593	222222252
13	697.1	6.581	6.516	27.118	36.092	44.668	34.535	34.532	0.38	67.50	3.18	42.10	0.00	0.003		692	222222225
12	796.2	5.690	5.620	27.228	36.245	44.862	34.529	34.526	0.53	79.58	3.24	43.60	0.00	0.000		790	222222255
11	897.9	5.117	5.042	27.307	36.352	44.996	34.542	34.541	0.60	88.61	3.32	44.90	0.00	0.007		890	222222225
10	996.7	4.702	4.621	27.359	36.426	45.089	34.547	34.547	0.81	96.02	3.29	44.50	0.00	0.006	0.002	988	222222222
9	1498.5	2.969	2.862	27.582	36.739	45.487	34.604	34.598	1.66	132.15	3.09	42.40	0.00	0.000	0.007	1484	222222252
8	1998.3	2.145	2.007	27.686	36.889	45.680	34.644	34.642	2.30	150.83	2.93	40.70	0.00	-0.004	-0.005	1977	222222222
7	2499.7	1.862	1.684	27.727	36.947	45.755	34.664	34.663	2.58	158.14	2.84	39.70	0.00	0.002	0.003	2470	222222222
6	2999.9	1.687	1.466	27.751	36.983	45.802	34.674	34.673	2.88	159.56	2.76	38.90	0.00	-0.003	0.002	2961	222222222
5	3502.2	1.520	1.253	27.774	37.017	45.848	34.683	34.683	3.32	156.01	2.70	37.60	0.00	-0.002	-0.005	3453	222222222
4	4002.7	1.393	1.077	27.792	37.046	45.885	34.691	34.688	3.67	144.54	2.60	36.60	0.00	-0.001	-0.004	3942	222222222
3	4505.3	1.368	0.997	27.801	37.059	45.902	34.695	34.696	3.95	140.58	2.52	35.50	0.00	-0.003	0.006	4433	222222222
2	5005.7	1.413	0.981	27.802	37.061	45.905	34.695	34.696	4.01	139.56	2.49	35.20	0.00	-0.003		4919	222222225
1	5279.0	1.438	0.972	27.803	37.062	45.907	34.696	34.699	4.03	139.16	2.52	35.59	0.01	-0.008		5185	222222225

CRUISE: MW 893 STA: 134 DATE (D/M/Y): 14- 4-89 TIME: 1325 LAT: 9 29.59 N LONG: 150 21.86 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24054E-04 1/S SOUND SPEED= 1505.9 M/S Depth= 5059 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.480	34.886	5.14	26.480	22.799	31.072	38.993	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.480	34.886	5.14	26.479	22.799	31.072	38.993	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.497	34.868	4.83	26.493	22.781	31.054	38.975	0.101	0.1	-0.90	0.018	6.97	0.965	20.0
30	26.497	34.868	4.86	26.490	22.782	31.055	38.975	0.152	0.2	0.81	-0.167	-9.01	-1.097	30.0
40	26.504	34.866	4.84	26.495	22.779	31.052	38.973	0.203	0.4	-0.05	-0.053	-0.55	-0.271	40.0
50	26.508	34.866	4.84	26.497	22.779	31.052	38.972	0.254	0.6	0.57	0.022	-3.83	-0.715	50.0
100	17.214	34.558	3.60	17.197	25.129	33.674	41.850	0.474	2.3	-231.32	-9.860	1208.49	12.702	99.9
125	13.781	34.441	2.00	13.763	25.805	34.474	42.765	0.536	3.0	-107.04	3.942	610.69	9.029	124.8
150	12.125	34.584	0.98	12.105	26.246	34.977	43.326	0.585	3.7	-0.16	11.959	229.02	5.529	149.7
200	11.475	34.738	0.42	11.450	26.489	35.244	43.615	0.669	5.2	-14.47	0.077	65.80	2.964	199.5
250	10.774	34.721	0.48	10.743	26.605	35.389	43.787	0.745	6.9	-12.73	-0.390	47.79	2.526	249.2
300	10.261	34.697	0.47	10.225	26.677	35.483	43.902	0.818	9.0	-9.73	-0.378	33.97	2.130	298.9
350	9.776	34.680	0.36	9.736	26.748	35.574	44.013	0.888	11.3	-6.75	-0.156	24.95	1.825	348.6
400	9.480	34.670	0.30	9.435	26.789	35.629	44.080	0.955	13.8	-8.12	-0.477	24.20	1.798	398.3
450	9.046	34.645	0.22	8.996	26.841	35.700	44.169	1.021	16.7	-7.89	-0.371	24.67	1.815	448.0
500	8.589	34.620	0.26	8.536	26.894	35.773	44.262	1.084	19.8	-9.97	-0.559	28.63	1.955	497.7
600	7.500	34.569	0.23	7.440	27.017	35.947	44.483	1.204	26.4	-9.63	-0.357	29.03	1.969	597.0
700	6.666	34.541	0.32	6.601	27.112	36.081	44.654	1.313	33.7	-7.32	-0.096	24.03	1.791	696.2
800	5.841	34.537	0.35	5.771	27.216	36.225	44.835	1.413	41.4	-7.86	-0.045	25.99	1.863	795.4
900	5.238	34.540	0.47	5.162	27.292	36.331	44.969	1.505	49.3	-6.11	0.083	21.57	1.697	894.5
1000	4.693	34.550	0.68	4.612	27.363	36.429	45.093	1.590	57.6	-4.93	0.109	17.81	1.542	993.6
1200	3.848	34.574	1.28	3.757	27.472	36.582	45.287	1.743	74.6	-3.07	0.095	11.30	1.228	1191.6
1400	3.342	34.591	1.52	3.239	27.536	36.673	45.403	1.880	92.8	-2.96	0.099	10.93	1.208	1389.4
1600	2.812	34.610	1.81	2.698	27.601	36.767	45.523	2.003	111.7	-2.31	0.094	8.81	1.084	1586.9
1800	2.447	34.627	2.06	2.321	27.647	36.832	45.608	2.116	131.2	-1.68	0.079	6.62	0.940	1784.3
2000	2.165	34.643	2.26	2.026	27.683	36.885	45.675	2.221	151.4	-1.09	0.062	4.54	0.779	1981.5
2200	1.998	34.654	2.40	1.844	27.706	36.918	45.717	2.320	172.7	-0.85	0.053	3.70	0.703	2178.5
2400	1.888	34.662	2.54	1.719	27.723	36.941	45.747	2.415	195.1	-0.53	0.033	2.35	0.560	2375.4
2600	1.826	34.666	2.62	1.640	27.732	36.955	45.765	2.509	219.0	-0.42	0.020	1.76	0.485	2572.0
2800	1.743	34.671	2.73	1.540	27.743	36.971	45.786	2.602	244.7	-0.44	0.019	1.89	0.502	2768.5
3000	1.668	34.675	2.86	1.447	27.753	36.986	45.806	2.694	271.8	-0.57	0.022	2.44	0.571	2964.7
3200	1.591	34.678	3.02	1.353	27.762	37.001	45.826	2.784	300.2	-0.35	0.014	1.53	0.452	3160.9
3400	1.538	34.681	3.16	1.281	27.770	37.012	45.841	2.873	330.3	-0.36	0.014	1.62	0.465	3356.8
3600	1.479	34.685	3.36	1.203	27.778	37.025	45.858	2.961	361.8	-0.42	0.025	2.10	0.529	3552.5
3800	1.436	34.688	3.56	1.140	27.785	37.035	45.871	3.048	394.6	-0.29	0.014	1.40	0.432	3748.1
4000	1.394	34.691	3.72	1.078	27.792	37.046	45.885	3.135	429.0	-0.28	0.013	1.36	0.426	3943.5
4200	1.356	34.695	3.88	1.019	27.799	37.056	45.898	3.221	464.9	-0.25	0.013	1.26	0.410	4138.7
4400	1.359	34.695	3.94	1.000	27.800	37.058	45.902	3.307	502.5	-0.05	0.001	0.22	0.170	4333.8
4600	1.369	34.696	3.98	0.987	27.802	37.060	45.905	3.393	542.4	-0.06	0.002	0.30	0.200	4528.7
4800	1.385	34.696	4.01	0.979	27.803	37.062	45.906	3.482	584.7	-0.05	0.002	0.25	0.182	4723.4
5000	1.402	34.697	4.03	0.971	27.804	37.063	45.908	3.571	629.4	-0.02	0.001	0.10	0.115	4918.0
5109	1.414	34.696	4.02	0.969	27.804	37.063	45.908	3.621	655.0	-0.02	0.001	0.10	0.000	5023.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.0	26.493	26.492	22.781	31.054	38.975	34.868	34.868	4.86	1.22	0.32	9.60		1.725	0.943	5	222222522
23	46.5	26.497	26.486	22.784	31.057	38.978	34.869	34.869	4.78	1.22	0.35	9.60		1.742	0.917	46	222222522
22	71.8	26.501	26.485	22.785	31.058	38.979	34.870	34.866	4.75	1.22	0.34	9.70		1.767	0.930	71	222222522
21	98.1	19.434	19.417	24.739	33.210	41.316	34.770	34.730	4.46	2.33	0.51	12.10		2.178	1.132	97	222222522
20	122.9	14.907	14.888	25.542	34.169	42.422	34.409	34.428	2.94	10.66	1.31	24.20				122	222222555
19	147.2	12.369	12.349	26.283	35.003	43.341	34.692	34.651	0.42	25.98	2.55	41.90		0.337		146	222222525
18	172.0	11.717	11.695	26.441	35.186	43.548	34.735	34.733	0.24	28.52	2.60	43.70		0.135		170	222222525
17	199.3	11.195	11.170	26.531	35.297	43.679	34.725	34.728	0.35	29.74	2.59	43.90		0.100		198	222222525
16	247.5	10.737	10.707	26.610	35.395	43.795	34.719	34.729	0.43	31.36	2.60	44.60		0.073		245	222222525
15	297.1	10.156	10.121	26.694	35.504	43.927	34.696	34.691	0.37	33.90	2.68	45.30		0.036		295	222222525
14	397.7	9.328	9.284	26.809	35.656	44.113	34.664	34.661	0.28	38.77	2.81	46.90		0.040	0.023	395	222222522
13	497.3	8.585	8.532	26.893	35.773	44.262	34.618	34.618	0.28	45.88	2.96	47.50		0.006		493	222222525
12	619.9	7.333	7.272	27.039	35.977	44.520	34.566	34.565	0.24	58.97	3.19	49.60		-0.001	0.003	615	222222522
11	796.2	5.844	5.773	27.220	36.229	44.839	34.543	34.535	0.42	77.24	3.37	53.20		0.004	0.007	790	222222522
10	998.1	4.722	4.641	27.358	36.423	45.085	34.548	34.548	0.68	95.31	3.37	54.20		0.000	0.005	990	222222552
9	1500.1	2.926	2.819	27.586	36.745	45.495	34.604	34.602	1.75	132.25	3.13	51.40		-0.001	0.006	1486	222222522
8	1999.7	2.143	2.004	27.687	36.889	45.681	34.645	34.643	2.28	151.03	2.99	49.90		0.000	0.005	1978	222222552
7	2500.8	1.848	1.671	27.729	36.950	45.758	34.665	34.665	2.58	157.73	2.87	49.00		-0.003	-0.005	2471	222222522
6	3001.5	1.674	1.453	27.752	36.985	45.805	34.675	34.674	2.85	160.98	2.82	48.30		0.002	0.008	2963	222222522
5	3502.0	1.520	1.253	27.773	37.017	45.847	34.682	34.682	3.25	158.64	2.72	47.10		-0.003	0.000	3453	222222525
4	4003.1	1.397	1.081	27.791	37.045	45.884	34.690	34.690	3.70	145.65	2.64	45.70		0.001	-0.004	3943	222222522
3	4504.8	1.363	0.992	27.800	37.059	45.903	34.694	34.696	3.96	140.58	2.54	44.80		-0.003	-0.004	4432	222222522
2	5005.2	1.402	0.971	27.803	37.063	45.908	34.696	34.697	3.98	139.46	2.53	44.60		0.002	0.001	4919	222222522
1	5111.0	1.414	0.969	27.802	37.062	45.907	34.695		4.02	139.16	2.53	44.50		-0.006	-0.005	5022	252222522

CRUISE: MW 893 STA: 135 DATE (D/M/Y): 14- 4-89 TIME: 2258 LAT: 9 29.71 N LONG: 149 30.04 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24059E-04 1/S SOUND SPEED= 1506.3 M/S Depth= 5096 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.492	34.848	4.38	26.492	22.766	31.040	38.960	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	26.492	34.848	4.38	26.491	22.767	31.040	38.961	0.015	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.454	34.837	4.93	26.449	22.772	31.046	38.968	0.102	0.1	-4.95	-0.132	34.37	2.142	20.0
30	26.424	34.836	4.89	26.417	22.781	31.056	38.979	0.152	0.2	-2.01	-0.117	12.81	1.308	30.0
40	26.418	34.836	4.86	26.409	22.784	31.059	38.982	0.203	0.4	-0.18	0.021	1.71	0.478	40.0
50	26.417	34.836	4.77	26.405	22.785	31.060	38.983	0.254	0.7	-0.70	-0.008	5.06	0.822	50.0
100	19.832	34.673	4.31	19.813	24.563	33.022	41.118	0.492	2.4	-233.03	-7.180	1380.00	13.572	99 9
125	16.005	34.490	2.93	15.986	25.359	33.947	42.162	0.569	3.3	-184.39	-6.673	896.42	10.938	124.8
150	13.222	34.593	0.60	13.201	26.038	34.725	43.034	0.625	4.1	-52.50	9.916	430.60	7.581	149.7
200	11.519	34.736	0.31	11.493	26.480	35.232	43.602	0.711	5.6	-18.76	-0.093	82.31	3.315	199.5
250	10.814	34.722	0.39	10.784	26.598	35.380	43.777	0.788	7.4	-12.71	-0.354	48.42	2.542	249.2
300	10.285	34.704	0.50	10.249	26.678	35.483	43.901	0.861	9.4	-8.25	-0.265	29.93	1.999	299.0
350	9.876	34.689	0.33	9.836	26.738	35.560	43.994	0.931	11.8	-7.80	-0.288	27.06	1.900	348.7
400	9.489	34.671	0.23	9.444	26.789	35.628	44.079	0.999	14.3	-8.20	-0.439	25.48	1.841	398.4
450	9.044	34.650	0.16	8.994	26.845	35.704	44.174	1.065	17.2	-10.82	-0.623	31.72	2.057	448.1
500	8.495	34.613	0.25	8.442	26.903	35.787	44.279	1.128	20.3	-9.52	-0.582	26.35	1.875	497.7
600	7.424	34.560	0.35	7.365	27.021	35.955	44.494	1.247	26.9	-12.09	-0.566	34.28	2.139	597.0
700	6.470	34.532	0.58	6.405	27.130	36.109	44.691	1.355	34.1	-9.35	-0.175	29.38	1.980	696.3
800	5.716	34.533	0.31	5.646	27.228	36.244	44.860	1.454	41.6	-7.16	0.025	24.27	1.800	795.4
900	5.071	34.541	0.51	4.996	27.312	36.360	45.006	1.544	49.4	-5.67	0.100	20.26	1.645	894.6
1000	4.512	34.554	0.79	4.432	27.386	36.461	45.133	1.627	57.4	-5.19	0.146	19.14	1.598	993.6
1200	3.754	34.577	1.26	3.663	27.484	36.599	45.308	1.775	74.0	-3.14	0.091	11.34	1.230	1191.6
1400	3.189	34.595	1.60	3.087	27.554	36.699	45.436	1.908	91.7	-2.86	0.095	10.47	1.182	1389.4
1600	2.698	34.615	1.88	2.586	27.614	36.786	45.548	2.028	110.1	-2.12	0.086	8.01	1.034	1587.0
1800	2.341	34.631	2.12	2.217	27.659	36.850	45.631	2.138	129.1	-1.62	0.079	6.43	0.927	1784.4
2000	2.127	34.645	2.30	1.988	27.688	36.892	45.684	2.240	148.9	-1.00	0.060	4.21	0.750	1981.5
2200	1.965	34.656	2.44	1.812	27.711	36.924	45.725	2.338	169.8	-0.67	0.043	2.94	0.627	2178.6
2400	1.875	34.662	2.55	1.706	27.724	36.943	45.749	2.433	192.1	-0.47	0.030	2.08	0.527	2375.4
2600	1.818	34.667	2.62	1.632	27.733	36.956	45.766	2.527	216.0	-0.37	0.016	1.52	0.451	2572.0
2800	1.747	34.670	2.71	1.544	27.742	36.970	45.785	2.620	241.7	-0.47	0.021	2.01	0.518	2768.5
3000	1.672	34.674	2.85	1.452	27.752	36.985	45.805	2.712	268.9	-0.57	0.021	2.42	0.568	2964.8
3200	1.591	34.678	3.02	1.353	27.762	37.001	45.826	2.802	297.4	-0.39	0.016	1.71	0.477	3160.9
3400	1.538	34.681	3.17	1.281	27.770	37.012	45.841	2.891	327.4	-0.34	0.013	1.50	0.447	3356.8
3600	1.462	34.685	3.36	1.187	27.780	37.027	45.861	2.980	358.9	-0.51	0.028	2.50	0.578	3552.6
3800	1.416	34.689	3.59	1.121	27.788	37.039	45.876	3.066	391.6	-0.34	0.018	1.66	0.471	3748.1
4000	1.380	34.692	3.74	1.064	27.794	37.048	45.888	3.152	425.7	-0.26	0.013	1.27	0.412	3943.5
4200	1.356	34.694	3.87	1.019	27.798	37.055	45.898	3.237	461.4	-0.18	0.009	0.92	0.350	4138.8
4400	1.348	34.695	3.96	0.989	27.801	37.060	45.904	3.323	498.9	-0.10	0.004	0.51	0.262	4333.8
4600	1.359	34.696	4.00	0.977	27.803	37.062	45.907	3.409	538.6	-0.07	0.003	0.36	0.219	4528.7
4800	1.374	34.696	4.03	0.968	27.804	37.063	45.908	3.497	580.7	-0.03	0.002	0.17	0.151	4723.4
5000	1.394	34.697	4.04	0.964	27.804	37.064	45.909	3.586	625.3	-0.03	0.002	0.18	0.155	4918.0
5175	1.412	34.698	4.03	0.959	27.805	37.065	45.911	3.666	666.5	-0.02	0.002	0.18	0.000	5088.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.2	26.500	26.498	22.759	31.032	38.953	34.840	34.839	4.84	1.32	0.35	9.70		0.000	0.000	8	222222555
23	47.1	26.412	26.401	22.785	31.061	38.984	34.835	34.838	4.84	1.32	0.34	9.80		0.000	0.000	46	222222555
22	72.8	26.219	26.202	22.845	31.126	39.053	34.832	34.833	4.76	1.52	0.38	10.10		0.000	0.000	72	222222555
21	97.3	18.664	18.647	24.852	33.349	41.479	34.661	34.646	3.99	3.45	0.68	14.80		0.000	0.000	96	222222555
20	121.6	14.930	14.911	25.579	34.205	42.456	34.465	34.479	2.52	12.38	1.48	27.00		0.000	0.000	120	222222555
19	147.0	12.840	12.820	26.150	34.852	43.174	34.640	34.640	0.36	25.07	2.51	41.40		0.000	0.000	146	222222555
18	178.6	11.854	11.831	26.418	35.157	43.514	34.738	34.737	0.22	28.32	2.57	43.40		0.000	0.000	177	222222555
17	195.1	11.442	11.417	26.492	35.248	43.621	34.733	34.734	0.27	29.03	2.60	43.40		0.000	0.000	193	222222555
16	295.9	10.240	10.205	26.693	35.499	43.919	34.713	34.702	0.41	33.09	2.65	44.80		0.000	0.000	294	222222555
15	396.2	9.489	9.444	26.796	35.635	44.086	34.681	34.674	0.22	38.06	2.82	46.70		0.000	0.000	393	222222555
14	497.3	8.481	8.428	26.906	35.790	44.283	34.614	34.618	0.23	46.79	2.99	47.50		0.000	0.000	493	222222555
13	598.7	7.588	7.528	27.005	35.930	44.462	34.569	34.572	0.25	56.23	3.12	48.70		0.000	0.000	594	222222555
12	698.5	6.504	6.440	27.135	36.112	44.692	34.544	34.533	0.50	67.40	3.19	50.90		0.000	0.000	693	222222555
11	798.9	5.730	5.660	27.226	36.241	44.856	34.532	34.534	0.33	79.88	3.36	53.20		0.000	0.000	792	222222555
10	997.6	4.442	4.363	27.396	36.475	45.150	34.557	34.555	0.88	100.08	3.33	53.50		0.000	0.000	989	222222555
9	1498.0	2.955	2.848	27.583	36.741	45.490	34.605	34.604	1.71	132.56	3.12	51.20		0.000	0.000	1484	222222555
8	2002.1	2.123	1.985	27.689	36.892	45.685	34.645	34.645	2.31	151.44	2.95	49.40		0.000	0.000	1981	222222555
7	2502.7	1.853	1.675	27.728	36.948	45.756	34.664	34.672	2.57	158.54	2.87	49.00		0.000	0.000	2473	222222555
6	3002.7	1.687	1.466	27.751	36.983	45.802	34.674	34.678	2.84	160.88	2.80	48.30		0.000	0.000	2964	222222555
5	3503.9	1.521	1.254	27.772	37.016	45.846	34.681	34.686	3.23	159.66	2.71	47.40		0.000	0.000	3455	222222555
4	4004.9	1.382	1.066	27.792	37.047	45.887	34.691	34.692	3.75	145.86	2.60	45.50		0.000	0.000	3945	222222555
3	4504.5	1.354	0.983	27.801	37.060	45.904	34.694	34.697	3.99	139.97	2.53	44.50		0.000	0.000	4432	222222555
2	5004.6	1.395	0.964	27.804	37.064	45.909	34.697	34.697	4.04	138.45	2.52	44.60		0.000	0.000	4918	222222555
1	5178.3	1.412	0.959	27.805	37.065	45.910	34.697	34.698	4.04	138.24	2.53	44.50		0.000	0.000	5087	222222555

CRUISE: MW 893 STA: 136 DATE (D/M/Y): 15- 4-89 TIME: 0758 LAT: 9 29.86 N LONG: 148 40.05 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1507.5 M/S Depth= 5351 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.475	34.860	4.94	26.475	22.781	31.054	38.975	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	26.475	34.860	4.94	26.474	22.781	31.055	38.976	0.015	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.490	34.858	4.87	26.486	22.776	31.049	38.970	0.101	0.1	-0.07	-0.062	-0.61	-0.285	20.0
30	26.494	34.858	4.89	26.487	22.776	31.049	38.969	0.152	0.2	-0.51	-0.005	3.70	0.702	30.0
40	26.494	34.858	4.92	26.485	22.776	31.050	38.970	0.203	0.4	-1.55	-0.103	9.67	1.136	40.0
50	26.461	34.855	4.88	26.449	22.785	31.060	38.981	0.254	0.7	-1.23	-0.049	8.25	1.049	50.0
100	19.312	34.653	4.17	19.294	24.682	33.158	41.269	0.480	2.3	-178.43	-3.755	1041.71	11.790	99.9
125	15.846	34.469	2.99	15.827	25.379	33.973	42.193	0.553	3.2	-133.60	-8.694	564.00	8.675	124.8
150	13.109	34.378	1.86	13.088	25.894	34.589	42.905	0.612	4.0	-81.76	-0.221	400.82	7.313	149.7
200	11.403	34.647	0.47	11.377	26.432	35.191	43.566	0.704	5.6	-18.22	3.267	148.34	4.327	199.5
250	10.629	34.685	0.35	10.599	26.603	35.393	43.798	0.782	7.4	-10.67	0.109	47.64	2.521	249.2
300	10.007	34.676	0.44	9.972	26.704	35.520	43.950	0.854	9.4	-12.11	-0.150	47.80	2.525	299.0
350	9.570	34.657	0.41	9.531	26.763	35.599	44.046	0.923	11.7	-10.11	-0.383	34.12	2.134	348.7
400	9.153	34.633	0.41	9.109	26.814	35.668	44.133	0.989	14.2	-9.68	-0.569	28.11	1.937	398.4
450	8.510	34.590	0.57	8.463	26.882	35.765	44.257	1.053	17.0	-15.13	-1.073	38.59	2.269	448.1
500	7.881	34.553	0.64	7.831	26.948	35.860	44.380	1.114	20.0	-7.56	-0.009	28.09	1.936	497.7
600	7.098	34.551	0.29	7.040	27.060	36.008	44.562	1.228	26.3	-9.79	-0.410	27.54	1.917	597.0
700	6.073	34.521	0.71	6.010	27.173	36.171	44.770	1.332	33.2	-9.87	-0.070	32.32	2.077	696.2
800	5.319	34.533	0.45	5.251	27.276	36.311	44.945	1.425	40.4	-6.87	0.059	23.43	1.768	795.4
900	4.840	34.543	0.64	4.767	27.339	36.398	45.055	1.511	47.8	-4.26	0.134	15.85	1.454	894.5
1000	4.349	34.556	0.92	4.271	27.404	36.488	45.168	1.591	55.5	-4.13	0.123	15.18	1.423	993.6
1200	3.626	34.579	1.31	3.537	27.498	36.620	45.335	1.735	71.7	-3.15	0.103	11.47	1.237	1191.6
1400	3.067	34.598	1.64	2.966	27.567	36.719	45.462	1.865	88.9	-2.46	0.082	8.94	1.092	1389.3
1600	2.635	34.615	1.92	2.523	27.620	36.795	45.561	1.983	106.9	-2.01	0.093	7.79	1.019	1586.9
1800	2.312	34.631	2.18	2.188	27.661	36.854	45.636	2.091	125.7	-1.34	0.069	5.39	0.848	1784.3
2000	2.093	34.645	2.32	1.955	27.691	36.897	45.691	2.193	145.4	-1.11	0.067	4.70	0.792	1981.5
2200	1.959	34.655	2.47	1.806	27.710	36.924	45.725	2.290	166.2	-0.59	0.038	2.57	0.586	2178.5
2400	1.873	34.662	2.56	1.704	27.724	36.943	45.749	2.385	188.5	-0.45	0.027	1.96	0.511	2375.3
2600	1.805	34.666	2.64	1.619	27.734	36.957	45.768	2.479	212.4	-0.49	0.024	2.07	0.526	2572.0
2800	1.730	34.671	2.74	1.527	27.744	36.973	45.788	2.571	237.9	-0.44	0.019	1.88	0.501	2768.4
3000	1.656	34.674	2.88	1.436	27.753	36.987	45.808	2.663	264.9	-0.46	0.017	1.94	0.509	2964.7
3200	1.583	34.678	3.03	1.345	27.763	37.002	45.827	2.753	293.3	-0.39	0.018	1.75	0.483	3160.8
3400	1.531	34.681	3.21	1.274	27.771	37.013	45.842	2.842	323.3	-0.36	0.014	1.61	0.464	3356.7
3600	1.482	34.684	3.37	1.206	27.778	37.024	45.857	2.930	354.7	-0.28	0.014	1.33	0.421	3552.5
3800	1.438	34.688	3.55	1.142	27.785	37.035	45.871	3.017	387.7	-0.34	0.015	1.63	0.466	3748.1
4000	1.397	34.691	3.70	1.081	27.791	37.045	45.884	3.104	422.2	-0.29	0.014	1.42	0.435	3943.5
4200	1.371	34.693	3.83	1.034	27.796	37.052	45.894	3.190	458.2	-0.20	0.010	1.03	0.371	4138.7
4400	1.361	34.694	3.91	1.002	27.800	37.058	45.901	3.276	496.1	-0.12	0.008	0.66	0.298	4333.8
4600	1.374	34.695	3.97	0.992	27.801	37.060	45.903	3.363	536.0	-0.06	0.004	0.32	0.206	4528.7
4800	1.391	34.696	3.98	0.985	27.802	37.061	45.905	3.452	578.4	-0.03	0.002	0.16	0.148	4723.4
5000	1.410	34.696	4.01	0.979	27.803	37.062	45.906	3.542	623.3	-0.04	0.002	0.22	0.169	4917.9
5200	1.429	34.697	4.03	0.972	27.803	37.063	45.908	3.633	670.9	-0.02	0.003	0.12	0.129	5112.3
5400	1.453	34.697	4.01	0.971	27.804	37.063	45.908	3.726	721.1	-0.01	0.000	0.12	0.000	5306.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	26.468	26.466	22.784	31.058	38.979	34.861	34.861	5.02	1.12	0.37	1.27	0.03	0.000	0.000	7	222222255
23	49.9	26.477	26.466	22.784	31.058	38.979	34.861	34.861	4.91	1.32	0.39	1.25	0.05	0.000	0.000	49	222222255
22	100.8	19.923	19.904	24.550	33.006	41.099	34.688	34.684	4.19	2.74	0.63	3.48	1.12	0.000	0.000	100	222222255
21	150.4	12.722	12.702	25.985	34.694	43.024	34.396	34.401	1.61	20.81	2.11	25.90	0.00	0.000	0.000	149	222222255
20	198.3	11.257	11.233	26.442	35.207	43.588	34.625	34.624	0.46	29.64	2.63	33.20	0.00	0.000	0.000	197	222222255
19	248.7	10.307	10.278	26.617	35.421	43.839	34.631	34.630	0.39	34.00	2.67	35.20	0.00	0.000	0.000	247	222222255
18	297.3	9.906	9.871	26.705	35.526	43.959	34.655	34.654	0.36	35.73	2.78	36.59	0.01	0.000	0.000	295	222222255
17	394.0	9.112	9.068	26.813	35.669	44.135	34.624	34.623	0.45	40.19	2.82	38.29	0.01	0.000	0.000	391	222222255
16	496.1	8.008	7.957	26.939	35.845	44.359	34.565	34.561	0.62	49.74	3.01	39.19	0.01	0.000	0.000	492	222222255
15	594.8	7.214	7.156	27.050	35.993	44.541	34.560	34.559	0.29	59.48	3.20	41.59	0.01	0.000	0.000	590	222222255
14	696.0	6.248	6.185	27.156	36.145	44.737	34.528	34.527	0.64	70.24	3.21	42.79	0.01	0.000	0.000	690	222222255
13	795.0	5.465	5.397	27.258	36.286	44.914	34.533	34.535	0.48	83.33	3.37	45.19	0.01	0.000	0.000	789	222222255
12	993.7	4.396	4.317	27.399	36.481	45.159	34.556	34.556	0.93	101.20	3.34	45.09	0.01	0.000	0.000	985	222222255
11	1191.4	3.660	3.571	27.495	36.615	45.329	34.580	34.579	1.31	116.12	3.28	44.09	0.01	0.000	0.000	1181	222222255
10	1490.2	2.852	2.747	27.594	36.757	45.511	34.607	34.608	1.75	134.18	3.11	42.79	0.01	0.000	0.000	1476	222222255
9	1989.2	2.094	1.957	27.691	36.896	45.690	34.645	34.646	2.26	152.15	3.00	41.29	0.01	0.000	0.000	1968	222222255
8	2489.8	1.838	1.661	27.728	36.950	45.759	34.664	34.670	2.59	156.72	2.88	39.99	0.01	0.000	0.000	2461	222222255
7	2989.7	1.653	1.434	27.754	36.988	45.809	34.675	34.674	2.90	159.35	2.81	39.29	0.01	0.000	0.000	2951	222222255
6	3491.4	1.500	1.235	27.775	37.020	45.851	34.684	34.685	3.31	155.29	2.74	37.99	0.01	0.000	0.000	3443	222222255
5	3990.9	1.398	1.083	27.792	37.045	45.884	34.691	34.692	3.73	146.97	2.64	36.89	0.01	0.000	0.000	3931	222222255
4	4493.0	1.367	0.997	27.800	37.059	45.902	34.695	34.696	3.95	140.98	2.58	36.08	0.02	0.000	0.000	4421	222222255
3	4993.8	1.410	0.979	27.803	37.062	45.906	34.696	34.697	3.99	140.27	2.57	35.98	0.02	0.000	0.000	4908	222222255
2	5401.3	1.453	0.970	27.804	37.063	45.908	34.697	34.697	4.02	139.36	2.54	35.88	0.02	0.000	0.000	5304	222222255
1	5398.6	1.453	0.971	27.803	37.063	45.908	34.696	34.697	4.01	139.46	2.54	35.78	0.02	0.000	0.000	5301	222222255

CRUISE: MW 893 STA: 137 DATE (D/M/Y): 15-4-89 TIME: 1637 LAT: 9 29.12 N LONG: 147 49.91 W

GRAVITY= 9.7817-M/S CORIOLIS= 0.24034E-04 1/S SOUND SPEED= 1506.8 M/S Depth= 5233 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.322	34.787	4.55	26.322	22.774	31.052	38.978	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.322	34.787	4.55	26.322	22.774	31.053	38.978	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.338	34.828	5.12	26.334	22.801	31.079	39.003	0.101	0.1	0.52	0.373	2.77	0.609	20.0
30	26.345	34.831	5.03	26.338	22.802	31.080	39.004	0.152	0.2	-0.18	0.166	4.25	0.753	30.0
40	26.345	34.832	5.04	26.336	22.804	31.081	39.006	0.202	0.4	-0.12	-0.134	-1.51	-0.450	40.0
50	26.347	34.833	5.02	26.336	22.804	31.082	39.006	0.253	0.6	-0.14	0.224	5.00	0.817	50.0
100	21.282	34.753	4.85	21.262	24.236	32.651	40.705	0.499	2.5	-217.25	-4.119	1376.18	13.560	99.9
125	17.494	34.580	3.81	17.473	25.080	33.616	41.782	0.581	3.5	-166.66	-14.336	717.69	9.792	124.9
150	13.873	34.415	1.89	13.851	25.766	34.432	42.720	0.646	4.4	-104.18	7.773	682.08	9.546	149.8
200	11.445	34.651	0.55	11.420	26.428	35.185	43.558	0.739	6.0	-25.85	0.178	119.66	3.998	199.5
250	10.734	34.701	0.41	10.703	26.597	35.382	43.782	0.816	7.8	-12.52	-0.312	48.19	2.537	249.3
300	10.257	34.696	0.49	10.222	26.677	35.482	43.902	0.889	9.8	-8.36	-0.115	33.06	2.102	299.0
350	9.811	34.685	0.39	9.770	26.746	35.570	44.008	0.959	12.1	-10.65	-0.535	33.97	2.131	348.7
400	9.243	34.656	0.33	9.199	26.817	35.667	44.127	1.026	14.7	-9.21	-0.150	34.08	2.134	398.4
450	8.708	34.625	0.29	8.660	26.879	35.753	44.236	1.089	17.4	-9.86	-0.461	30.04	2.003	448.1
500	8.196	34.604	0.22	8.144	26.941	35.839	44.344	1.151	20.4	-12.64	-0.820	32.82	2.094	497.8
600	7.138	34.543	0.77	7.080	27.048	35.995	44.547	1.266	26.8	-9.35	-0.158	30.45	2.017	597.0
700	6.063	34.531	0.39	6.000	27.183	36.181	44.781	1.370	33.7	-9.62	-0.074	31.27	2.044	696.3
800	5.231	34.533	0.61	5.164	27.286	36.326	44.964	1.462	40.8	-7.03	0.101	24.63	1.814	795.5
900	4.666	34.547	0.85	4.594	27.362	36.430	45.095	1.546	48.1	-5.11	0.137	18.48	1.572	894.6
1000	4.216	34.563	1.06	4.139	27.424	36.515	45.201	1.624	55.6	-3.57	0.139	13.59	1.347	993.6
1200	3.562	34.584	1.43	3.474	27.508	36.633	45.351	1.766	71.5	-2.98	0.094	10.74	1.198	1191.6
1400	3.024	34.603	1.68	2.924	27.575	36.729	45.474	1.893	88.4	-2.84	0.103	10.40	1.179	1389.4
1600	2.563	34.622	1.95	2.452	27.632	36.810	45.579	2.009	106.0	-2.03	0.091	7.76	1.018	1587.0
1800	2.255	34.638	2.16	2.132	27.671	36.867	45.652	2.114	124.3	-1.22	0.064	4.88	0.807	1784.3
2000	2.044	34.650	2.40	1.906	27.699	36.907	45.703	2.214	143.6	-0.93	0.048	3.78	0.710	1981.5
2200	1.925	34.659	2.53	1.772	27.716	36.931	45.734	2.310	164.2	-0.56	0.036	2.46	0.573	2178.5
2400	1.849	34.664	2.63	1.681	27.727	36.947	45.755	2.404	186.2	-0.41	0.025	1.80	0.490	2375.4
2600	1.801	34.668	2.71	1.615	27.735	36.959	45.770	2.497	210.0	-0.43	0.021	1.82	0.493	2572.0
2800	1.728	34.672	2.81	1.525	27.745	36.974	45.790	2.589	235.4	-0.40	0.021	1.77	0.487	2768.5
3000	1.660	34.675	2.92	1.439	27.754	36.988	45.808	2.681	262.4	-0.43	0.017	1.86	0.499	2964.7
3200	1.598	34.678	3.04	1.360	27.762	37.000	45.824	2.771	290.9	-0.40	0.014	1.71	0.478	3160.8
3400	1.545	34.681	3.17	1.288	27.770	37.011	45.840	2.860	321.0	-0.36	0.014	1.61	0.463	3356.8
3600	1.487	34.684	3.33	1.211	27.777	37.024	45.856	2.949	352.6	-0.44	0.022	2.07	0.526	3552.5
3800	1.429	34.689	3.57	1.134	27.786	37.037	45.873	3.036	385.5	-0.38	0.022	1.92	0.506	3748.1
4000	1.389	34.692	3.75	1.073	27.793	37.047	45.886	3.122	419.8	-0.26	0.012	1.28	0.413	3943.5
4200	1.378	34.694	3.85	1.040	27.797	37.052	45.894	3.208	455.7	-0.18	0.010	0.94	0.354	4138.7
4400	1.378	34.695	3.93	1.010	27.800	37.057	45.900	3.294	493.5	-0.08	0.004	0.42	0.236	4333.8
4600	1.381	34.696	3.96	0.998	27.801	37.059	45.903	3.381	533.6	-0.05	0.002	0.24	0.179	4528.7
4800	1.398	34.696	3.98	0.991	27.802	37.060	45.904	3.470	576.1	-0.03	0.002	0.16	0.147	4723.4
5000	1.414	34.696	3.99	0.983	27.803	37.062	45.906	3.560	621.1	-0.03	0.002	0.17	0.152	4918.0
5200	1.435	34.697	4.01	0.978	27.803	37.062	45.907	3.652	668.7	-0.03	0.002	0.17	0.000	5112.4
5289	1.444	34.697	4.02	0.976	27.803	37.063	45.907	3.693	690.8	-0.03	0.002	0.17	0.000	5198.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	•• CTDSAL PSS78	•• SALNTY PSS78	•• OXYGEN ML/L	•• SILCAT UMOL/L	•• PHSPHT UMOL/L	•• NITRAT UMOL/L	•• NITRIT UMOL/L	•• CFC-11 PM/KG	•• CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	26.346	26.344	22.798	31.075	38.999	34.828	34.827	4.83	1.12	0.32	0.87	0.03	1.735	0.908	7	222222222
23	46.1	26.340	26.330	22.802	31.080	39.004	34.828	34.829	4.85	1.12	0.33	0.98	0.02	1.741	0.898	45	222222222
22	70.8	26.330	26.314	22.814	31.092	39.017	34.837	34.831	4.80	1.32	0.35	1.08	0.02	1.765	0.923	70	222222222
21	96.2	20.326	20.309	24.416	32.861	40.942	34.652	34.819	4.74	1.52	0.36	0.62	0.48	2.190	1.120	95	222222222
20	120.7	15.378	15.359	25.508	34.117	42.353	34.500	34.450	2.92	9.24	1.25	14.48	0.02	1.711	0.867	119	222222222
19	147.5	12.834	12.814	26.178	34.880	43.201	34.674	34.657	0.36	25.27	2.51	32.50	0.00	0.364	0.176	146	222222222
18	173.7	11.485	11.463	26.411	35.167	43.539	34.641	34.636	0.47	28.62	2.57	32.50	0.00	0.256	0.138	172	222222222
17	196.9	11.336	11.311	26.502	35.262	43.639	34.721	34.715	0.28	29.94	2.61	34.50	0.00	0.185		195	222222225
16	246.5	10.610	10.580	26.619	35.410	43.815	34.702	34.703	0.46	32.38	2.64	34.90	0.00	0.098		244	222222225
15	297.6	10.116	10.081	26.694	35.506	43.931	34.687	34.689	0.43	34.21	2.67	35.90	0.00	0.043		295	222222225
14	396.6	9.233	9.189	26.819	35.670	44.131	34.657	34.653	0.27	39.99	2.85	37.49	0.01	0.039	0.028	393	222222222
13	497.0	8.331	8.279	26.926	35.817	44.317	34.611	34.608	0.19	49.23	3.13	38.40	0.00	0.010	0.004	493	222222222
12	620.2	6.955	6.896	27.072	36.028	44.588	34.542	34.542	0.34	63.44	3.24	40.60	0.00	0.003	0.008	615	222222222
11	798.1	5.284	5.217	27.278	36.315	44.951	34.531	34.530	0.60	85.97	3.22	43.59	0.01	0.003	0.003	792	222222222
10	999.1	4.219	4.141	27.423	36.514	45.200	34.562	34.562	1.05	105.76	3.22	44.20	0.00	0.008	0.004	991	222222222
9	1496.3	2.799	2.694	27.602	36.768	45.525	34.611	34.610	1.79	137.63	3.11	42.50	0.00	0.003	0.007	1482	222222222
8	2000.3	2.068	1.931	27.695	36.901	45.697	34.648	34.650	2.39	153.77	2.91	40.70	0.00	-0.002		1979	222222225
7	2499.8	1.831	1.654	27.731	36.953	45.762	34.666	34.669	2.62	159.66	2.80	39.90	0.00	0.001	0.004	2478	222222222
6	3000.7	1.665	1.445	27.754	36.987	45.807	34.675	34.675	2.91	161.89	2.76	39.00	0.00	-0.001	0.007	2962	222222222
5	3502.7	1.520	1.253	27.774	37.018	45.848	34.683	34.683	3.28	160.47	2.68	38.00	0.00	-0.002	0.006	3454	222222222
4	4001.8	1.393	1.077	27.792	37.045	45.885	34.691	34.686	3.70	147.78	2.59	36.80	0.00	0.017	0.018	3942	222222222
3	4505.5	1.376	1.004	27.800	37.057	45.901	34.694	34.696	3.90	142.81	2.51	35.80	0.00	0.003	0.006	4433	222222222
2	5005.7	1.415	0.983	27.801	37.060	45.905	34.695	34.697	4.02	140.98	2.49	35.70	0.00	0.004	0.000	4919	222222225
1	5292.1	1.444	0.976	27.803	37.062	45.907	34.696	34.697	4.03	140.88	2.49	35.60	0.00	-0.004	-0.005	5198	222222222

CRUISE: MW 893 STA: 138 DATE (D/M/Y): 16- 4-89 TIME: 0108 LAT: 9 29.38 N LONG: 147 0.08 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24045E-04 1/S SOUND SPEED= 1506.9 M/S Depth= 5228 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.991	34.623	4.34	25.991	22.753	31.042	38.976	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.991	34.623	4.34	25.990	22.754	31.042	38.976	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	25.921	34.616	5.03	25.916	22.772	31.062	38.999	0.102	0.1	-11.68	-0.534	75.88	3.183	20.0
30	25.860	34.611	4.96	25.853	22.788	31.080	39.018	0.153	0.2	-1.78	-0.259	8.36	1.056	30.0
40	25.851	34.611	4.89	25.842	22.791	31.083	39.021	0.203	0.4	-1.15	-0.069	7.20	0.980	40.0
50	25.843	34.610	4.87	25.832	22.793	31.085	39.024	0.254	0.6	-0.77	-0.080	4.18	0.747	50.0
100	20.121	34.867	4.65	20.103	24.635	33.083	41.168	0.479	2.3	-155.62	-3.441	913.31	11.044	99.9
125	16.305	34.490	3.23	16.285	25.291	33.868	42.073	0.556	3.2	-204.94	-13.167	858.33	10.706	124.8
150	12.821	34.589	0.98	12.801	26.115	34.818	43.141	0.612	4.0	-61.83	6.941	436.54	7.635	149.7
200	11.177	34.691	0.41	11.152	26.508	35.275	43.658	0.697	5.5	-19.92	-0.005	87.40	3.416	199.5
250	10.407	34.696	0.42	10.377	26.650	35.449	43.862	0.772	7.2	-13.55	-0.391	50.20	2.589	249.2
300	9.958	34.685	0.42	9.924	26.720	35.538	43.969	0.842	9.2	-7.34	-0.157	27.49	1.916	299.0
350	9.551	34.668	0.36	9.512	26.775	35.611	44.059	0.911	11.4	-9.21	-0.455	29.07	1.970	348.7
400	9.123	34.654	0.26	9.079	26.835	35.690	44.156	0.976	13.9	-8.12	-0.356	25.80	1.856	398.4
450	8.703	34.628	0.24	8.655	26.882	35.756	44.240	1.040	16.7	-10.51	-0.610	29.73	1.993	448.0
500	8.037	34.585	0.52	7.986	26.951	35.855	44.367	1.101	19.7	-13.35	-0.777	35.96	2.191	497.7
600	6.957	34.540	0.66	6.899	27.071	36.026	44.586	1.214	26.0	-10.04	-0.324	29.66	1.990	597.0
700	6.039	34.533	0.50	5.977	27.187	36.186	44.787	1.317	32.8	-8.95	0.040	31.07	2.037	696.2
800	5.256	34.534	0.59	5.189	27.284	36.322	44.958	1.409	39.9	-6.53	0.058	22.37	1.728	795.4
900	4.711	34.545	0.82	4.639	27.355	36.421	45.083	1.494	47.2	-4.56	0.104	16.33	1.477	894.5
1000	4.322	34.554	1.02	4.244	27.406	36.491	45.173	1.573	54.9	-4.39	0.139	16.11	1.467	993.6
1200	3.630	34.581	1.33	3.540	27.499	36.621	45.336	1.716	70.9	-3.00	0.101	10.96	1.210	1191.6
1400	3.103	34.599	1.61	3.003	27.565	36.714	45.456	1.846	88.1	-2.45	0.087	8.97	1.095	1389.3
1600	2.644	34.618	1.86	2.532	27.621	36.796	45.561	1.964	106.1	-2.02	0.087	7.72	1.016	1586.9
1800	2.329	34.634	2.07	2.205	27.662	36.854	45.635	2.073	124.9	-1.61	0.083	6.43	0.927	1784.3
2000	2.073	34.648	2.31	1.935	27.695	36.902	45.697	2.174	144.5	-1.02	0.061	4.30	0.757	1981.5
2200	1.944	34.658	2.47	1.791	27.714	36.928	45.730	2.270	165.2	-0.56	0.035	2.43	0.570	2178.5
2400	1.862	34.664	2.58	1.693	27.726	36.946	45.753	2.365	187.3	-0.45	0.025	1.92	0.507	2375.3
2600	1.802	34.668	2.67	1.617	27.735	36.959	45.770	2.458	211.1	-0.40	0.017	1.66	0.471	2572.0
2800	1.730	34.671	2.78	1.527	27.745	36.973	45.789	2.550	236.6	-0.45	0.020	1.95	0.511	2768.4
3000	1.655	34.675	2.90	1.435	27.754	36.988	45.809	2.642	263.6	-0.47	0.019	2.03	0.520	2964.7
3200	1.583	34.679	3.03	1.345	27.764	37.002	45.828	2.732	292.1	-0.44	0.017	1.92	0.507	3160.8
3400	1.534	34.681	3.17	1.277	27.770	37.013	45.842	2.821	322.0	-0.40	0.018	1.80	0.491	3356.7
3600	1.480	34.686	3.38	1.204	27.779	37.026	45.858	2.908	353.4	-0.30	0.017	1.47	0.443	3552.5
3800	1.435	34.689	3.57	1.140	27.786	37.036	45.872	2.996	386.2	-0.30	0.014	1.47	0.443	3748.1
4000	1.405	34.691	3.69	1.089	27.791	37.044	45.883	3.082	420.7	-0.23	0.013	1.18	0.397	3943.5
4200	1.382	34.693	3.82	1.044	27.796	37.052	45.893	3.168	456.8	-0.20	0.006	0.97	0.360	4138.7
4400	1.373	34.695	3.89	1.013	27.799	37.056	45.899	3.255	494.8	-0.16	0.007	0.83	0.332	4333.8
4600	1.378	34.695	3.96	0.995	27.801	37.059	45.903	3.342	534.9	-0.06	0.003	0.30	0.200	4528.6
4800	1.395	34.696	3.97	0.988	27.802	37.060	45.904	3.431	577.3	-0.03	0.002	0.16	0.146	4723.4
5000	1.416	34.696	3.98	0.984	27.802	37.061	45.906	3.521	622.3	-0.02	0.001	0.12	0.125	4917.9
5200	1.437	34.697	4.00	0.980	27.803	37.062	45.906	3.613	670.0	-0.03	0.003	0.19	0.159	5112.3
5319	1.448	34.697	3.99	0.976	27.804	37.063	45.908	3.668	699.7	-0.05	0.004	0.19	0.000	5227.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	25.962	25.960	22.766	31.055	38.990	34.626	34.624	5.06	1.12	0.26	0.30	0.00	1.798	0.948	6	222222222
23	47.4	25.840	25.830	22.794	31.087	39.025	34.611	34.611	5.02	1.12	0.26	0.29	0.01	1.806	0.954	47	222222222
22	71.5	25.632	25.617	22.848	31.146	39.090	34.595	34.611	4.86	1.32	0.30	0.38	0.02	1.833	0.981	71	222222222
21	96.5	20.214	20.197	24.611	33.057	41.139	34.869	34.865	4.68	2.03	0.32	0.93	0.97	2.192	1.129	95	222222222
20	122.0	16.821	16.801	25.144	33.703	41.893	34.454	34.516	3.28	6.19	1.03	11.66	0.04	1.849	0.960	121	222222222
19	147.2	12.864	12.844	26.090	34.792	43.114	34.568	34.536	0.89	21.82	2.25	29.59	0.01	0.652	0.358	146	222222222
18	172.9	11.836	11.814	26.387	35.127	43.486	34.694	34.697	0.24	27.10	2.55	33.99	0.01	0.218	0.136	171	222222222
17	196.9	11.258	11.233	26.495	35.259	43.639	34.694	34.711	0.25	29.74	2.58	34.30	0.00	0.116		195	222222225
16	246.4	10.468	10.439	26.642	35.438	43.849	34.699	34.699	0.38	32.28	2.60	35.50	0.00	0.068		244	222222225
15	296.5	10.015	9.981	26.711	35.527	43.956	34.686	34.687	0.35	34.31	2.63	36.50	0.00	0.037	0.038	294	222222222
14	395.8	9.175	9.131	26.823	35.676	44.140	34.650	34.646	0.26	39.89	2.79	37.90	0.00	0.029	0.019	393	222222222
13	496.2	8.167	8.116	26.932	35.831	44.338	34.587	34.592	0.40	48.82	2.93	38.81	-0.01	0.004	0.015	492	222222222
12	747.7	5.616	5.551	27.239	36.259	44.880	34.532	34.530	0.60	79.88	3.21	43.81	-0.01	-0.003	0.001	742	222222222
11	796.9	5.208	5.141	27.291	36.331	44.971	34.536	34.532	0.60	86.68	3.27	44.51	-0.01	0.000	0.007	790	222222252
10	996.6	4.283	4.205	27.410	36.497	45.180	34.554	34.556	1.02	103.33	3.21	44.10	0.00			988	222222255
9	1497.8	2.892	2.786	27.592	36.753	45.505	34.608	34.607	1.71	134.49	3.07	42.60	0.00	0.001	0.013	1483	222222222
8	2000.2	2.095	1.957	27.693	36.898	45.692	34.648	34.647	2.31	153.16	2.88	40.90	0.00			1979	222222255
7	2500.9	1.830	1.653	27.730	36.952	45.761	34.665	34.662		158.64	2.78	39.70	0.00	-0.002	-0.002	2472	225222222
6	3002.0	1.654	1.434	27.755	36.989	45.810	34.676	34.678	2.92	161.18	2.73	39.10	0.00			2963	222222255
5	3503.8	1.494	1.228	27.776	37.022	45.853	34.684	34.685	3.35	158.24	2.62	37.80	0.00			3455	222222255
4	4006.6	1.402	1.085	27.791	37.044	45.883	34.691	34.692	3.74	148.09	2.54	36.50	0.00	-0.003	0.012	3946	222222222
3	4503.6	1.373	1.002	27.800	37.057	45.901	34.694	34.699	3.99	142.61	2.51	35.90	0.00			4431	222222255
2	5005.7	1.416	0.984	27.802	37.061	45.905	34.696	34.696	4.03	141.69	2.49	35.70	0.00			4919	222222255
1	5322.7	1.448	0.976	27.802	37.062	45.906	34.695	34.697	4.04	141.29	2.50	35.69	0.01	-0.006	-0.005	5227	222222222

CRUISE: MW 893 STA: 139 DATE (D/M/Y): 16- 4-89 TIME: 0920 LAT: 9 29.23 N LONG: 146 9.94 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24039E-04 1/S SOUND SPEED= 1506.3 M/S Depth= 5156 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-Ψ (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.715	34.575	4.53	25.715	22.803	31.098	39.040	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.715	34.575	4.53	25.715	22.803	31.099	39.040	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	25.724	34.576	5.01	25.720	22.802	31.098	39.040	0.101	0.1	0.16	-0.042	-1.89	-0.503	20.0
30	25.720	34.576	4.90	25.714	22.804	31.100	39.041	0.152	0.2	-2.04	-0.077	13.48	1.342	30.0
40	25.697	34.575	4.89	25.688	22.811	31.108	39.050	0.202	0.4	-2.93	0.065	22.46	1.732	40.0
50	25.662	34.576	4.94	25.651	22.824	31.121	39.064	0.253	0.6	-4.22	0.128	32.92	2.097	50.0
100	17.165	34.575	3.81	17.149	25.154	33.700	41.877	0.466	2.2	-218.64	-6.078	1153.17	12.411	99.9
125	13.245	34.342	2.26	13.228	25.838	34.528	42.839	0.528	2.9	-56.61	8.852	436.12	7.633	124.8
150	12.496	34.639	0.51	12.476	26.218	34.933	43.268	0.578	3.6	-46.56	2.353	267.54	5.978	149.7
200	11.098	34.694	0.27	11.073	26.524	35.295	43.681	0.661	5.1	-20.53	-0.383	82.84	3.327	199.5
250	10.343	34.678	0.20	10.314	26.647	35.449	43.865	0.735	6.8	-14.27	-0.595	49.19	2.563	249.2
300	9.814	34.671	0.32	9.780	26.733	35.557	43.995	0.805	8.8	-10.93	-0.432	36.84	2.218	298.9
350	9.301	34.655	0.31	9.262	26.806	35.653	44.111	0.872	11.0	-8.09	-0.324	26.45	1.880	348.6
400	8.813	34.622	0.44	8.770	26.859	35.729	44.207	0.936	13.4	-9.60	-0.466	29.04	1.970	398.3
450	8.304	34.592	0.58	8.257	26.915	35.808	44.308	0.998	16.1	-7.11	-0.030	26.52	1.882	448.0
500	7.777	34.557	0.68	7.727	26.966	35.883	44.407	1.058	19.0	-8.97	-0.296	27.92	1.931	497.7
600	6.882	34.546	0.34	6.825	27.086	36.045	44.607	1.170	25.3	-8.85	-0.048	30.66	2.024	596.9
700	6.052	34.530	0.52	5.990	27.183	36.181	44.782	1.273	32.1	-7.96	-0.084	25.36	1.841	696.2
800	5.361	34.539	0.38	5.293	27.275	36.308	44.940	1.366	39.2	-6.45	0.080	22.61	1.738	795.4
900	4.819	34.548	0.67	4.746	27.346	36.406	45.063	1.452	46.6	-4.93	0.100	17.55	1.531	894.5
1000	4.385	34.557	0.89	4.306	27.402	36.484	45.162	1.532	54.4	-3.93	0.102	14.20	1.377	993.5
1200	3.740	34.577	1.25	3.649	27.486	36.601	45.311	1.678	70.8	-3.18	0.095	11.50	1.239	1191.5
1400	3.179	34.597	1.62	3.077	27.556	36.701	45.439	1.811	88.4	-2.78	0.088	10.08	1.160	1389.3
1600	2.687	34.615	1.85	2.575	27.616	36.788	45.551	1.931	106.7	-2.16	0.093	8.27	1.051	1586.9
1800	2.339	34.632	2.12	2.214	27.660	36.851	45.632	2.040	125.6	-1.55	0.082	6.25	0.914	1784.3
2000	2.102	34.646	2.32	1.963	27.691	36.896	45.689	2.142	145.4	-0.97	0.053	3.99	0.730	1981.4
2200	1.954	34.656	2.48	1.801	27.711	36.925	45.727	2.239	166.2	-0.62	0.040	2.72	0.603	2178.5
2400	1.869	34.663	2.58	1.700	27.725	36.944	45.751	2.334	188.5	-0.49	0.030	2.17	0.538	2375.3
2600	1.799	34.667	2.69	1.613	27.735	36.959	45.770	2.428	212.3	-0.45	0.020	1.90	0.504	2571.9
2800	1.724	34.672	2.79	1.521	27.745	36.974	45.790	2.520	237.7	-0.41	0.017	1.75	0.484	2768.4
3000	1.661	34.675	2.90	1.441	27.754	36.987	45.807	2.611	264.7	-0.49	0.021	2.12	0.532	2964.7
3200	1.582	34.679	3.04	1.344	27.764	37.003	45.828	2.701	293.2	-0.44	0.017	1.93	0.507	3160.8
3400	1.533	34.682	3.21	1.276	27.771	37.014	45.843	2.790	323.1	-0.38	0.019	1.78	0.487	3356.7
3600	1.478	34.686	3.38	1.202	27.779	37.026	45.859	2.878	354.5	-0.37	0.019	1.79	0.488	3552.4
3800	1.432	34.689	3.58	1.136	27.786	37.037	45.873	2.965	387.3	-0.22	0.011	1.06	0.377	3748.0
4000	1.401	34.692	3.71	1.085	27.792	37.045	45.884	3.052	421.7	-0.28	0.012	1.34	0.424	3943.4
4200	1.378	34.694	3.82	1.040	27.797	37.052	45.894	3.138	457.8	-0.19	0.007	0.91	0.348	4138.7
4400	1.374	34.694	3.89	1.014	27.799	37.056	45.899	3.224	495.7	-0.10	0.003	0.47	0.250	4333.7
4600	1.382	34.695	3.94	0.999	27.801	37.059	45.902	3.312	535.9	-0.08	0.004	0.41	0.233	4528.6
4800	1.397	34.696	3.98	0.990	27.802	37.060	45.904	3.400	578.4	-0.02	0.002	0.13	0.130	4723.3
5000	1.418	34.696	3.98	0.986	27.802	37.061	45.905	3.490	623.4	-0.02	0.001	0.11	0.121	4917.9
5200	1.440	34.697	3.99	0.983	27.803	37.062	45.906	3.582	671.1	-0.02	0.002	0.11	0.000	5112.3
5241	1.444	34.697	3.99	0.982	27.803	37.062	45.906	3.601	681.2	-0.02	0.002	0.11	0.000	5152.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL PSS78	SALNTY PSS78	OXYGEN ML/L	SILCAT UMOL/L	PHSPHT UMOL/L	NITRAT UMOL/L	NITRIT UMOL/L	CFC-11 PM/KG	CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.7	25.712	25.711	22.806	31.102	39.044	34.578	34.577	4.82	0.61	0.27	-0.01	0.01	1.785	0.932	5	222222222
23	48.1	25.614	25.603	22.841	31.140	39.084	34.580	34.579	4.95	0.81	0.29	0.09	0.01	1.847	0.963	47	222222222
22	72.0	23.396	23.382	23.447	31.805	39.805	34.501		4.75	1.42	0.37	0.54	0.06	1.963	1.006	71	252222222
21	97.0	16.899	16.883	25.193	33.748	41.934	34.543	34.534	3.38	7.11	1.01	10.90	0.50	1.842	0.922	96	222222222
20	122.9	13.103	13.086	26.005	34.698	43.012	34.520	34.484	1.07	21.62	2.19	27.78	0.02	0.813	0.432	122	222222222
19	147.5	11.961	11.942	26.363	35.098	43.452	34.693	34.682	0.19	28.52	2.59	32.98	0.02	0.205		146	222222225
18	172.6	11.482	11.460	26.470	35.225	43.596	34.716	34.716	0.10	30.04	2.61	33.98	0.02	0.107	0.073	171	222222222
17	198.0	11.056	11.032	26.530	35.302	43.690	34.691	34.689	0.12	32.07	2.66	33.88	0.02	0.067	0.046	196	222222222
16	247.7	10.347	10.318	26.639	35.441	43.857	34.668	34.686	0.12	34.92	2.72	34.68	0.02	0.046		246	222222225
15	297.6	9.869	9.835	26.727	35.550	43.984	34.676	34.673	0.24	35.53	2.70	36.68	0.02	0.023	0.024	295	222222222
14	396.5	8.987	8.944	26.843	35.705	44.176	34.637	34.632	0.32	41.72	2.80	38.08	0.02	0.031	0.014	393	222222222
13	497.1	7.996	7.945	26.939	35.846	44.360	34.563	34.576	0.56	50.14	2.87	38.98	0.02	0.004	0.023	493	222222222
12	746.6	5.736	5.670	27.226	36.240	44.855	34.534	34.530	0.38	79.88	3.28	44.48	0.02	-0.001	0.006	741	222222222
11	796.0	5.380	5.312	27.273	36.304	44.936	34.538	34.535	0.36	85.67	3.33	45.38	0.02	0.001	0.010	789	222222222
10	997.9	4.432	4.353	27.395	36.475	45.151	34.556	34.554	0.84	101.70	3.28	45.18	0.02	0.003	0.002	989	222222222
9	1497.4	2.874	2.768	27.591	36.753	45.506	34.605	34.606	1.78	134.28	3.03	42.58	0.02			1483	222222255
8	2000.8	2.097	1.959	27.691	36.896	45.690	34.645	34.646	2.33	152.55	2.90	41.19	0.01			1980	222222255
7	2501.7	1.827	1.650	27.730	36.952	45.762	34.665	34.662	2.64	158.14	2.81	39.99	0.01			2472	222222255
6	3002.3	1.656	1.436	27.754	36.988	45.808	34.675	34.674	2.93	160.47	2.74	39.40	0.00	-0.003	-0.004	2964	222222222
5	3502.5	1.498	1.232	27.776	37.021	45.852	34.684	34.684	3.36	156.21	2.64	38.10	0.00			3454	222222255
4	4003.5	1.402	1.086	27.791	37.045	45.883	34.691	34.692	3.74	147.68	2.55	36.99	0.01			3943	222222255
3	4505.1	1.379	1.007	27.798	37.056	45.899	34.693	34.695	3.95	142.81	2.52	36.19	0.01			4432	222222255
2	5004.2	1.418	0.986	27.802	37.061	45.905	34.696	34.696	4.00	141.19	2.49	35.99	0.01	-0.001	0.002	4918	222222222
1	5244.0	1.444	0.982	27.803	37.062	45.906	34.697	34.696	4.02	141.39	2.51	35.99	0.01	-0.004	-0.005	5151	222222222

CRUISE: MW 893 STA: 140 DATE (D/M/Y): 16- 4-89 TIME: 1741 LAT: 9 29.81 N LONG: 145 20.00 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24063E-04 1/S SOUND SPEED= 1504.2 M/S Depth= 4913 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.020	34.696	4.95	26.020	22.800	31.086	39.020	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.020	34.696	4.95	26.020	22.800	31.086	39.020	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.029	34.690	5.19	26.025	22.794	31.080	39.013	0.101	0.1	-0.25	-0.037	1.16	0.394	20.0
30	26.030	34.690	5.16	26.023	22.794	31.081	39.014	0.152	0.2	-0.09	0.025	1.11	0.385	30.0
40	26.031	34.690	5.11	26.023	22.794	31.081	39.014	0.202	0.4	-0.08	0.143	3.14	0.647	40.0
50	26.033	34.691	5.03	26.022	22.796	31.082	39.015	0.253	0.6	0.01	-0.064	-1.24	-0.407	50.0
100	14.886	34.404	2.89	14.871	25.541	34.169	42.423	0.458	2.1	-184.46	-0.039	1016.67	11.648	99.9
125	12.480	34.628	0.67	12.463	26.211	34.927	43.262	0.510	2.7	-38.75	10.779	393.18	7.244	124.8
150	11.670	34.712	0.46	11.650	26.432	35.178	43.543	0.553	3.3	-25.12	-0.286	109.49	3.822	149.7
200	10.891	34.723	0.51	10.867	26.584	35.362	43.756	0.630	4.7	-12.46	-0.296	48.48	2.543	199.4
250	10.449	34.712	0.52	10.419	26.655	35.452	43.864	0.703	6.4	-6.97	-0.117	27.38	1.911	249.2
300	10.038	34.699	0.43	10.003	26.717	35.532	43.960	0.774	8.4	-9.35	-0.398	31.59	2.053	298.9
350	9.638	34.682	0.23	9.598	26.772	35.604	44.048	0.842	10.6	-6.16	-0.187	21.79	1.705	348.6
400	9.276	34.665	0.15	9.231	26.819	35.667	44.127	0.908	13.2	-9.78	-0.588	28.41	1.947	398.3
450	8.710	34.623	0.37	8.662	26.877	35.751	44.234	0.972	15.9	-7.84	-0.383	23.65	1.777	448.0
500	8.263	34.605	0.19	8.211	26.933	35.827	44.329	1.034	18.9	-9.99	-0.549	28.13	1.938	497.6
600	7.194	34.552	0.31	7.136	27.047	35.991	44.540	1.150	25.4	-9.76	-0.379	28.49	1.950	596.9
700	6.393	34.535	0.25	6.329	27.143	36.126	44.711	1.256	32.4	-9.20	-0.095	30.03	2.002	696.2
800	5.640	34.536	0.29	5.570	27.240	36.259	44.878	1.353	39.8	-6.34	0.036	21.63	1.699	795.3
900	4.985	34.544	0.51	4.911	27.324	36.376	45.025	1.441	47.5	-5.73	0.107	20.57	1.657	894.5
1000	4.487	34.556	0.77	4.408	27.390	36.466	45.140	1.523	55.5	-5.34	0.143	19.49	1.613	993.5
1200	3.779	34.577	1.28	3.688	27.481	36.595	45.303	1.671	72.0	-3.16	0.094	11.46	1.237	1191.5
1400	3.226	34.594	1.64	3.124	27.550	36.693	45.428	1.805	89.8	-2.68	0.088	9.81	1.144	1389.3
1600	2.747	34.612	1.87	2.633	27.608	36.777	45.537	1.927	108.4	-2.45	0.100	9.34	1.116	1586.9
1800	2.408	34.629	2.16	2.282	27.652	36.840	45.617	2.038	127.6	-1.61	0.082	6.47	0.929	1784.3
2000	2.146	34.643	2.37	2.008	27.685	36.888	45.679	2.141	147.6	-1.08	0.060	4.47	0.772	1981.4
2200	1.995	34.655	2.42	1.841	27.707	36.919	45.719	2.240	168.7	-0.77	0.058	3.56	0.689	2178.5
2400	1.889	34.662	2.57	1.720	27.723	36.941	45.747	2.335	191.1	-0.41	0.025	1.80	0.490	2375.3
2600	1.824	34.667	2.65	1.638	27.733	36.955	45.765	2.429	215.1	-0.40	0.017	1.69	0.475	2571.9
2800	1.755	34.671	2.75	1.552	27.742	36.969	45.784	2.523	240.8	-0.43	0.020	1.88	0.501	2768.4
3000	1.689	34.674	2.85	1.468	27.751	36.983	45.802	2.615	268.1	-0.48	0.020	2.07	0.526	2964.7
3200	1.616	34.678	2.99	1.377	27.760	36.997	45.821	2.706	296.9	-0.43	0.013	1.81	0.492	3160.8
3400	1.546	34.681	3.15	1.289	27.770	37.011	45.840	2.796	327.1	-0.49	0.019	2.21	0.543	3356.7
3600	1.483	34.684	3.35	1.207	27.778	37.024	45.857	2.884	358.7	-0.44	0.023	2.12	0.532	3552.5
3800	1.418	34.689	3.58	1.122	27.787	37.038	45.875	2.971	391.4	-0.29	0.016	1.45	0.440	3748.0
4000	1.392	34.692	3.73	1.076	27.792	37.046	45.886	3.057	425.7	-0.22	0.011	1.10	0.383	3943.4
4200	1.382	34.693	3.82	1.045	27.796	37.051	45.892	3.143	461.8	-0.17	0.008	0.86	0.339	4138.7
4400	1.379	34.694	3.89	1.019	27.798	37.055	45.898	3.230	499.8	-0.17	0.008	0.89	0.345	4333.7
4600	1.375	34.696	3.98	0.993	27.801	37.060	45.903	3.318	539.9	-0.09	0.005	0.48	0.252	4528.6
4800	1.394	34.696	3.98	0.987	27.802	37.061	45.905	3.406	582.3	-0.01	0.001	0.06	0.087	4723.3
4915	1.408	34.696	3.98	0.987	27.802	37.061	45.905	3.458	607.9	0.00	0.000	0.06	0.000	4835.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	3.6	26.067	26.067	22.782	31.067	38.999	34.691	34.692	4.96	1.42	0.29	0.40	0.00	1.794	0.953	3	222222222
23	45.9	26.035	26.024	22.798	31.085	39.018	34.695	34.695	4.98	1.52	0.31	0.60	0.00	1.792	0.962	45	222222222
22	71.1	19.886	19.874	24.122	32.587	40.687	34.117	34.600	4.11	3.96	0.62	4.45	0.25	1.842	0.945	70	222222222
21	97.0	14.742	14.727	25.602	34.235	42.492	34.442	34.408	2.47	12.99	1.49	18.40	0.10	1.493	0.741	96	222222222
20	119.5	12.645	12.629	26.142	34.851	43.181	34.580	34.582	0.56	25.38	2.43	31.88	0.02	0.466		118	222222225
19	145.7	11.780	11.761	26.442	35.184	43.543	34.752	34.724	0.27	28.52	2.54	34.60	0.00	0.173	0.097	144	222222222
18	171.6	11.413	11.391	26.486	35.243	43.617	34.720	34.717	0.43	29.54	2.50	34.70	0.00	0.137		170	222222225
17	196.4	11.020	10.996	26.562	35.335	43.724	34.724	34.723	0.42	30.65	2.51	35.00	0.00	0.093		195	222222225
16	246.3	10.511	10.482	26.645	35.439	43.848	34.713	34.706	0.45	32.68	2.55	35.90	0.00	0.072		244	222222225
15	296.2	10.151	10.116	26.700	35.510	43.933	34.702	34.703	0.48	33.60	2.57	36.40	0.00	0.054	0.035	294	222222222
14	396.3	9.328	9.284	26.810	35.656	44.113	34.664	34.667	0.22	39.89	2.80	38.10	0.00	0.030	0.011	393	222222222
13	496.6	8.361	8.309	26.919	35.809	44.307	34.608	34.608	0.22	48.92	2.98	39.00	0.00	0.004	0.013	493	222222222
12	621.1	6.994	6.935	27.071	36.025	44.583	34.547	34.545	0.33	62.83	3.12	41.40	0.00	0.000	0.016	616	222222252
11	796.2	5.486	5.418	27.258	36.285	44.911	34.535	34.535	0.59	84.35	3.33	45.20	0.00	0.071	0.037	790	222222222
10	998.0	4.328	4.250	27.408	36.493	45.174	34.557	34.557	0.91	102.92	3.24	45.10	0.00	0.004	-0.002	989	222222222
9	1499.2	2.896	2.789	27.589	36.750	45.502	34.685	34.685	1.81	134.59	3.03	42.50	0.00	-0.001	-0.004	1485	222222222
8	1998.8	2.133	1.995	27.687	36.890	45.682	34.645	34.644	2.38	151.03	2.89	40.80	0.00	0.000	0.009	1978	222222252
7	2499.4	1.856	1.679	27.728	36.948	45.756	34.665	34.662	2.61	158.95	2.79	40.10	0.00	0.001	0.001	2470	222222222
6	3004.1	1.692	1.471	27.751	36.982	45.801	34.674	34.674	2.87	161.38	2.73	39.40	0.00	-0.003	0.002	2966	222222222
5	3504.4	1.513	1.246	27.774	37.019	45.849	34.683	34.682	3.27	160.07	2.63	38.40	0.00	-0.004	-0.005	3456	222222222
4	4003.9	1.392	1.076	27.793	37.046	45.886	34.692	34.687	3.69	146.26	2.56	37.00	0.00	0.002	0.008	3944	222222222
3	4504.6	1.378	1.006	27.799	37.056	45.899	34.693	34.693	3.98	143.01	2.48	36.10	0.00	0.002	0.006	4432	222222222
2	4756.4	1.388	0.987	27.801	37.060	45.904	34.695	34.695	4.00	141.49	2.47	35.90	0.00	0.000	-0.004	4677	222222252
1	4915.3	1.407	0.986	27.802	37.060	45.905	34.696	34.695	4.02	141.59	2.48	36.00	0.00	-0.005	0.001	4831	222222222

CRUISE: MW 893 STA: 141 DATE (D/M/Y): 17- 4-89 TIME: 0224 LAT: 9 29.71 N LONG: 144 30.07 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24059E-04 1/S SOUND SPEED= 1506.3 M/S Depth= 5141 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.268	34.732	5.32	26.268	22.749	31.029	38.956	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.268	34.732	5.32	26.268	22.749	31.029	38.956	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.243	34.718	4.96	26.239	22.748	31.029	38.957	0.102	0.1	-18.92	-0.856	124.20	4.072	20.0
30	26.140	34.714	4.81	26.133	22.778	31.062	38.992	0.153	0.2	-0.85	-0.014	6.01	0.896	30.0
40	26.132	34.714	4.92	26.123	22.781	31.065	38.996	0.204	0.4	-1.17	0.100	10.36	1.176	40.0
50	26.113	34.716	4.69	26.102	22.789	31.074	39.005	0.255	0.6	-8.01	0.282	63.91	2.921	50.0
100	16.299	34.357	2.40	16.283	25.189	33.768	41.975	0.459	2.1	-142.11	2.534	831.25	10.533	99.9
125	13.488	34.558	0.82	13.471	25.956	34.634	42.933	0.519	2.8	-77.64	5.284	488.03	8.071	124.8
150	12.459	34.745	0.47	12.439	26.307	35.022	43.357	0.566	3.5	-29.55	3.200	200.64	5.175	149.7
200	11.200	34.732	0.39	11.175	26.535	35.301	43.683	0.647	4.9	-16.95	-0.349	68.05	3.014	199.4
250	10.531	34.701	0.81	10.501	26.632	35.426	43.834	0.722	6.6	-11.32	-0.599	37.17	2.227	249.2
300	10.083	34.687	0.97	10.048	26.700	35.513	43.939	0.793	8.6	-7.03	-0.059	28.28	1.943	298.9
350	9.783	34.688	0.56	9.743	26.752	35.578	44.016	0.862	10.9	-6.61	-0.150	24.45	1.807	348.6
400	9.402	34.674	0.47	9.357	26.805	35.648	44.102	0.929	13.5	-7.23	-0.452	20.98	1.673	398.3
450	8.988	34.647	0.30	8.939	26.852	35.713	44.184	0.994	16.3	-7.90	-0.393	24.20	1.797	448.0
500	8.512	34.616	0.19	8.458	26.903	35.786	44.278	1.057	19.4	-9.75	-0.544	27.90	1.930	497.7
600	7.314	34.557	0.19	7.255	27.034	35.973	44.517	1.176	26.0	-11.76	-0.427	35.35	2.172	597.0
700	6.291	34.535	0.24	6.227	27.157	36.144	44.733	1.282	33.1	-9.06	-0.101	29.53	1.985	696.2
800	5.549	34.536	0.35	5.480	27.251	36.274	44.898	1.379	40.4	-6.94	0.071	24.25	1.799	795.4
900	4.909	34.546	0.65	4.835	27.334	36.390	45.043	1.466	48.0	-5.21	0.107	18.74	1.582	894.5
1000	4.455	34.556	0.91	4.375	27.393	36.471	45.146	1.547	55.9	-4.77	0.110	17.04	1.508	993.6
1200	3.760	34.577	1.29	3.670	27.483	36.598	45.307	1.695	72.4	-2.91	0.090	10.61	1.190	1191.5
1400	3.246	34.594	1.60	3.144	27.548	36.690	45.424	1.828	90.1	-2.49	0.085	9.17	1.106	1389.3
1600	2.796	34.611	1.77	2.682	27.603	36.770	45.527	1.951	108.8	-2.23	0.090	8.48	1.064	1586.9
1800	2.416	34.629	1.99	2.290	27.651	36.838	45.615	2.063	128.2	-1.78	0.090	7.14	0.976	1784.3
2000	2.156	34.643	2.22	2.017	27.685	36.887	45.677	2.166	148.2	-1.09	0.059	4.47	0.773	1981.5
2200	1.991	34.654	2.40	1.837	27.707	36.919	45.719	2.265	169.4	-0.75	0.047	3.28	0.662	2178.5
2400	1.884	34.662	2.54	1.714	27.723	36.942	45.748	2.360	191.7	-0.47	0.028	2.06	0.524	2375.3
2600	1.823	34.667	2.63	1.637	27.733	36.955	45.766	2.454	215.7	-0.35	0.017	1.49	0.445	2571.9
2800	1.761	34.670	2.74	1.557	27.741	36.968	45.783	2.548	241.5	-0.46	0.020	1.96	0.511	2768.4
3000	1.694	34.674	2.87	1.473	27.751	36.982	45.801	2.641	268.9	-0.48	0.020	2.06	0.525	2964.7
3200	1.619	34.678	3.04	1.381	27.761	36.997	45.821	2.732	297.7	-0.39	0.018	1.75	0.484	3160.8
3400	1.555	34.681	3.18	1.298	27.769	37.010	45.838	2.821	327.9	-0.45	0.012	1.90	0.503	3356.7
3600	1.495	34.684	3.34	1.219	27.777	37.022	45.854	2.910	359.6	-0.41	0.018	1.90	0.503	3552.5
3800	1.435	34.688	3.56	1.140	27.785	37.035	45.872	2.998	392.6	-0.35	0.017	1.73	0.480	3748.1
4000	1.400	34.691	3.71	1.084	27.791	37.045	45.884	3.084	427.0	-0.20	0.010	1.00	0.365	3943.5
4200	1.391	34.693	3.82	1.053	27.795	37.050	45.891	3.171	463.1	-0.13	0.006	0.63	0.289	4138.7
4400	1.391	34.694	3.87	1.030	27.797	37.054	45.895	3.258	501.4	-0.08	0.003	0.41	0.233	4333.8
4600	1.392	34.695	3.93	1.009	27.799	37.057	45.900	3.346	541.8	-0.11	0.005	0.59	0.281	4528.6
4800	1.403	34.695	3.98	0.996	27.801	37.059	45.903	3.435	584.4	-0.04	0.002	0.23	0.174	4723.4
5000	1.424	34.696	4.00	0.992	27.801	37.060	45.904	3.525	629.6	-0.02	0.001	0.10	0.113	4917.9
5199	1.444	34.696	3.99	0.987	27.802	37.061	45.905	3.617	677.2	-0.02	0.003	0.10	0.000	5111.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.7	26.206	26.205	22.763	31.044	38.973	34.723	34.724	4.98	1.22	0.26	0.20	0.00	1.770	0.925	7	222222222
23	46.8	26.094	26.083	22.800	31.085	39.016	34.722	34.722	5.03	1.62	0.29	0.40	0.00	1.781	0.914	46	222222222
22	97.4	13.505	13.491	25.984	34.660	42.959	34.599	34.534	0.76	20.81	2.22	28.89	0.11	0.753	0.377	96	222222222
21	147.1	11.527	11.508	26.487	35.239	43.608	34.749	34.725	0.33	29.03	2.48	34.40	0.00	0.145		146	222222225
20	198.6	10.858	10.834	26.586	35.366	43.761	34.718	34.720	0.40	31.06	2.49	35.00	0.00	0.092	0.058	197	222222222
19	246.3	10.312	10.283	26.665	35.468	43.885	34.694	34.696	0.86	31.77	2.40	34.30	0.00	0.105	0.061	244	222222222
18	296.8	9.950	9.916	26.729	35.548	43.979	34.695	34.689	0.67	34.00	2.51	35.70	0.00	0.075	0.054	294	222222222
17	397.3	9.236	9.192	26.822	35.672	44.133	34.661	34.660	0.44	39.08	2.70	37.50	0.00	0.021		394	222222225
16	496.9	8.275	8.223	26.939	35.832	44.334	34.616	34.604	0.24	49.02	2.93	38.70	0.00	0.015		493	222222225
15	598.1	7.025	6.968	27.066	36.018	44.575	34.547	34.552	0.21	63.13	3.11	41.30	0.00	0.008		593	222222225
14	697.9	6.173	6.110	27.170	36.163	44.758	34.533	34.533	0.26	73.69	3.19	43.20	0.00			692	222222255
13	800.3	5.445	5.376	27.262	36.291	44.919	34.535	34.536	0.40	84.14	3.29	44.80	0.00	0.001	0.009	794	222222222
12	998.5	4.431	4.352	27.395	36.475	45.151	34.555	34.557	0.96	101.60	3.20	44.40	0.00	0.002	-0.004	990	222222222
11	1197.2	3.758	3.668	27.482	36.597	45.306	34.575	34.576	1.30	115.00	3.14	43.39	0.01			1187	222222255
10	1499.0	2.986	2.878	27.583	36.739	45.486	34.608	34.602	1.66	132.86	3.04	42.50	0.00			1485	222222255
9	1799.5	2.397	2.272	27.653	36.842	45.620	34.630	34.632	2.01	147.68	2.94	41.60	0.00			1781	222222255
8	1998.1	2.114	1.976	27.691	36.895	45.688	34.647	34.646	2.27	153.98	2.88	40.70	0.00	-0.003	-0.005	1977	222222222
7	2500.4	1.834	1.657	27.730	36.952	45.761	34.666	34.664	2.63	159.86	2.79	39.60	0.00			2471	222222255
6	3002.8	1.683	1.462	27.753	36.985	45.804	34.675	34.676	2.87	161.38	2.71	38.90	0.00	0.003	-0.004	2964	222222222
5	3502.7	1.516	1.249	27.773	37.017	45.848	34.682	34.685	3.28	159.35	2.63	37.80	0.00			3454	222222255
4	4003.8	1.400	1.084	27.791	37.044	45.883	34.691	34.691	3.75	149.92	2.55	36.60	0.00	-0.001	-0.004	3944	222222222
3	4505.6	1.394	1.022	27.797	37.054	45.896	34.693	34.694	3.90	144.54	2.50	36.09	0.01			4433	222222255
2	5005.3	1.424	0.992	27.801	37.059	45.903	34.695	34.698	4.01	142.91	2.48	35.79	0.01	0.003	-0.004	4919	222222222
1	5202.9	1.444	0.987	27.801	37.060	45.904	34.695	34.695	3.99	141.69	2.48	35.79	0.01	-0.004	-0.005	5111	222222222

CRUISE: MW 893 STA: 142 DATE (D/M/Y): 17- 4-89 TIME: 1135 LAT: 9 30.25 N LONG: 143 40.19 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24081E-04 1/S SOUND SPEED= 1505.9 M/S Depth= 5170 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.963	34.726	5.08	25.963	22.840	31.128	39.062	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.963	34.726	5.08	25.963	22.840	31.128	39.062	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	25.994	34.713	4.95	25.989	22.822	31.109	39.043	0.100	0.1	0.01	-0.060	-1.15	-0.392	20.0
30	25.994	34.713	4.94	25.987	22.823	31.110	39.044	0.151	0.2	0.09	-0.034	-1.29	-0.415	30.0
40	25.997	34.713	4.94	25.988	22.822	31.110	39.043	0.201	0.4	-0.25	0.017	2.12	0.531	40.0
50	25.950	34.720	4.94	25.938	22.843	31.132	39.067	0.252	0.6	-10.26	1.806	107.32	3.783	50.0
100	15.829	34.387	2.09	15.813	25.320	33.914	42.136	0.465	2.2	-218.94	2.403	1298.14	13.157	99.9
125	13.042	34.673	0.22	13.025	26.135	34.829	43.143	0.520	2.8	-50.44	6.863	387.52	7.188	124.8
150	12.229	34.744	0.35	12.209	26.351	35.075	43.418	0.565	3.5	-21.89	1.497	134.66	4.237	149.7
200	11.322	34.730	0.47	11.297	26.511	35.272	43.649	0.646	4.9	-17.73	-0.620	67.01	2.989	199.4
250	10.589	34.712	0.63	10.559	26.631	35.422	43.828	0.722	6.6	-10.73	-0.305	40.29	2.318	249.2
300	10.209	34.705	0.44	10.173	26.692	35.500	43.921	0.793	8.7	-6.65	-0.173	24.78	1.818	298.9
350	9.836	34.693	0.29	9.796	26.747	35.571	44.007	0.863	11.0	-7.02	-0.291	23.74	1.779	348.6
400	9.470	34.673	0.16	9.425	26.793	35.633	44.085	0.930	13.5	-9.31	-0.547	27.85	1.927	398.3
450	8.971	34.642	0.20	8.922	26.851	35.713	44.186	0.996	16.4	-11.14	-0.668	32.02	2.066	448.0
500	8.330	34.604	0.21	8.278	26.921	35.813	44.312	1.058	19.4	-10.32	-0.561	29.41	1.980	497.7
600	7.272	34.560	0.22	7.213	27.042	35.983	44.529	1.175	26.0	-12.14	-0.363	37.74	2.243	597.0
700	6.411	34.546	0.24	6.347	27.149	36.131	44.715	1.281	33.0	-8.12	-0.159	25.12	1.830	696.2
800	5.529	34.536	0.34	5.460	27.254	36.278	44.903	1.377	40.3	-7.34	0.019	24.76	1.817	795.4
900	4.994	34.544	0.57	4.920	27.323	36.375	45.024	1.465	47.9	-4.83	0.091	17.11	1.510	894.5
1000	4.498	34.556	0.85	4.419	27.388	36.465	45.138	1.547	55.9	-4.50	0.191	17.69	1.536	993.6
1200	3.799	34.576	1.23	3.708	27.479	36.591	45.298	1.695	72.5	-3.28	0.100	11.97	1.263	1191.5
1400	3.160	34.596	1.54	3.059	27.557	36.703	45.442	1.829	90.1	-2.75	0.091	10.08	1.159	1389.3
1600	2.780	34.611	1.76	2.666	27.605	36.772	45.530	1.949	108.6	-1.90	0.082	7.30	0.986	1586.9
1800	2.382	34.631	2.04	2.256	27.656	36.845	45.623	2.061	127.9	-1.74	0.090	7.01	0.967	1784.3
2000	2.140	34.645	2.26	2.002	27.687	36.890	45.682	2.164	147.9	-1.09	0.061	4.53	0.777	1981.5
2200	1.953	34.657	2.46	1.800	27.713	36.926	45.728	2.262	168.8	-0.78	0.050	3.41	0.674	2178.5
2400	1.861	34.664	2.59	1.692	27.726	36.946	45.753	2.356	190.9	-0.43	0.023	1.83	0.494	2375.3
2600	1.800	34.668	2.68	1.615	27.735	36.959	45.770	2.449	214.7	-0.43	0.019	1.80	0.490	2571.9
2800	1.726	34.671	2.80	1.523	27.745	36.974	45.790	2.542	240.2	-0.47	0.019	1.97	0.513	2768.4
3000	1.651	34.676	2.97	1.430	27.755	36.989	45.810	2.633	267.2	-0.51	0.022	2.25	0.548	2964.7
3200	1.587	34.679	3.11	1.349	27.763	37.002	45.827	2.723	295.6	-0.38	0.013	1.64	0.468	3160.8
3400	1.536	34.682	3.25	1.279	27.770	37.013	45.842	2.812	325.6	-0.40	0.016	1.78	0.487	3356.7
3600	1.472	34.685	3.43	1.196	27.779	37.026	45.859	2.900	357.0	-0.50	0.023	2.34	0.559	3552.5
3800	1.414	34.689	3.65	1.119	27.787	37.039	45.876	2.987	389.7	-0.27	0.017	1.38	0.428	3748.0
4000	1.395	34.691	3.79	1.079	27.792	37.046	45.885	3.073	423.9	-0.18	0.009	0.90	0.346	3943.5
4200	1.385	34.693	3.86	1.047	27.795	37.051	45.892	3.159	460.0	-0.14	0.006	0.72	0.310	4138.7
4400	1.381	34.694	3.94	1.021	27.798	37.055	45.897	3.246	498.1	-0.11	0.004	0.54	0.268	4333.7
4600	1.387	34.695	3.98	1.004	27.800	37.058	45.901	3.334	538.3	-0.06	0.003	0.30	0.200	4528.6
4800	1.404	34.695	4.00	0.997	27.801	37.059	45.902	3.422	580.9	-0.03	0.001	0.14	0.134	4723.4
5000	1.426	34.695	4.02	0.994	27.801	37.059	45.903	3.513	626.2	-0.02	0.001	0.08	0.106	4917.9
5159	1.444	34.696	4.00	0.992	27.802	37.060	45.904	3.586	664.0	-0.01	0.002	0.08	0.000	5072.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	25.979	25.977	22.828	31.116	39.050	34.716	34.715	4.89	1.12	0.30	0.39	0.01	1.811	1.007	7	222222222
23	47.5	25.985	25.974	22.830	31.117	39.051	34.717	34.718	4.88	1.22	0.32	0.48	0.02	1.795	0.946	47	222222222
22	96.9	16.832	16.816	24.947	33.509	41.701	34.202	34.388	3.51	6.29	0.96	8.00	0.80	1.859	0.941	96	222222222
21	121.6	12.893	12.876	26.164	34.863	43.183	34.672	34.651	0.31	24.87	2.47	32.79	0.01	0.396	0.244	120	222222222
20	148.3	12.194	12.174	26.351	35.077	43.421	34.736	34.730	0.29	27.30	2.49	34.39	0.01	0.203	0.125	147	222222222
19	170.1	11.696	11.674	26.456	35.202	43.565	34.749	34.729	0.40	28.62	2.48	34.49	0.01	0.156	0.099	169	222222222
18	198.9	11.112	11.087	26.543	35.313	43.698	34.722	34.721	0.40	30.04	2.53	34.89	0.01	0.111	0.078	197	222222222
17	247.0	10.480	10.450	26.644	35.440	43.851	34.706	34.702	0.77	31.57	2.46	34.69	0.01	0.098	0.066	245	222222222
16	297.1	10.156	10.121	26.700	35.509	43.932	34.703	34.702	0.44	33.60	2.59	36.49	0.01	0.058		295	222222225
15	396.4	9.334	9.290	26.808	35.653	44.110	34.663	34.659	0.23	39.48	2.79	38.10	0.00	0.014	0.021	393	222222222
14	497.7	8.321	8.269	26.922	35.814	44.314	34.604	34.602	0.23	48.82	2.98	39.10	0.00			494	222222255
13	597.9	7.202	7.144	27.049	35.993	44.541	34.556	34.556	0.21	60.90	3.15	40.99	0.01	0.002	0.014	593	222222222
12	695.8	6.380	6.317	27.151	36.134	44.720	34.543	34.542	0.30	70.14	3.23	43.50	0.00	0.001	0.004	690	222222222
11	797.7	5.452	5.384	27.261	36.289	44.917	34.534	34.535	0.43	83.94	3.30	45.10	0.00	0.004	0.010	791	222222222
10	999.6	4.503	4.423	27.387	36.463	45.136	34.555	34.554	0.87	99.88	3.28	45.00	0.00	0.000	0.006	991	222222252
9	1497.8	2.965	2.858	27.581	36.738	45.487	34.603	34.603		133.47	3.08	43.10	0.00	-0.003	-0.004	1484	225222222
8	2000.7	2.129	1.991	27.688	36.892	45.684	34.645	34.646	2.25	153.57	2.91	41.40	0.00			1979	222222255
7	2499.7	1.838	1.661	27.730	36.951	45.760	34.665	34.666	2.62	159.96	2.83	40.20	0.00	-0.002	-0.004	2470	222222222
6	3002.6	1.661	1.441	27.754	36.988	45.808	34.676	34.675	2.94	160.88	2.75	39.40	0.00			2964	222222255
5	3504.0	1.508	1.241	27.774	37.019	45.849	34.683	34.684	3.33	159.05	2.68	38.51	-0.01			3455	222222255
4	4005.0	1.397	1.081	27.792	37.045	45.884	34.691	34.692	3.76	147.89	2.54	36.91	-0.01			3945	222222255
3	4505.1	1.382	1.010	27.799	37.056	45.899	34.694	34.696	3.94	143.93	2.52	36.41	-0.01			4432	222222255
2	5006.7	1.427	0.995	27.800	37.058	45.902	34.694	34.696	3.97	143.22	2.49	36.31	-0.01	-0.002	-0.004	4920	222222222
1	5162.2	1.444	0.992	27.800	37.058	45.902	34.694	34.696	3.98	142.30	2.48	36.11	-0.01	-0.005	-0.005	5071	222222222

CRUISE: MW 893 STA: 143 DATE (D/M/Y): 17- 4-89 TIME: 2041 LAT: 9 29.65 N LONG: 142 49.97 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24056E-04 1/S SOUND SPEED= 1505.8 M/S Depth= 5084 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.236	34.803	4.02	26.236	22.813	31.093	39.020	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.236	34.803	4.02	26.236	22.813	31.093	39.020	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.223	34.789	4.77	26.219	22.808	31.089	39.016	0.101	0.1	-2.48	-0.145	15.72	1.449	20.0
30	26.199	34.788	4.76	26.192	22.815	31.097	39.025	0.151	0.2	-1.75	-0.101	11.13	1.219	30.0
40	26.191	34.787	4.74	26.182	22.818	31.099	39.028	0.202	0.4	-1.12	-0.072	6.95	0.963	40.0
50	26.186	34.786	4.74	26.174	22.819	31.101	39.030	0.252	0.6	-1.12	-0.129	5.96	0.892	50.0
100	15.369	34.446	2.71	15.354	25.468	34.078	42.314	0.466	2.2	-240.55	-0.496	1378.32	13.564	99.9
125	12.804	34.592	0.58	12.787	26.120	34.823	43.147	0.521	2.8	-42.02	8.419	361.97	6.951	124.8
150	12.109	34.717	0.35	12.089	26.353	35.082	43.430	0.566	3.5	-25.70	0.735	131.48	4.189	149.7
200	11.243	34.727	0.47	11.218	26.524	35.288	43.668	0.646	4.9	-13.43	-0.254	54.31	2.692	199.4
250	10.563	34.710	0.65	10.533	26.634	35.426	43.833	0.721	6.6	-12.00	-0.339	44.90	2.448	249.2
300	10.014	34.696	0.48	9.979	26.719	35.535	43.963	0.792	8.6	-10.37	-0.345	36.75	2.215	298.9
350	9.594	34.678	0.22	9.555	26.776	35.610	44.056	0.860	10.9	-8.48	-0.462	26.04	1.864	348.6
400	9.178	34.658	0.16	9.133	26.829	35.682	44.146	0.925	13.4	-8.23	-0.507	23.56	1.773	398.3
450	8.669	34.626	0.21	8.621	26.886	35.761	44.246	0.989	16.1	-9.69	-0.484	28.91	1.965	448.0
500	8.170	34.600	0.21	8.119	26.942	35.841	44.347	1.050	19.1	-11.89	-0.696	32.36	2.078	497.7
600	7.188	34.555	0.19	7.130	27.051	35.995	44.544	1.165	25.5	-10.27	-0.394	29.68	1.990	596.9
700	6.261	34.537	0.28	6.197	27.162	36.150	44.741	1.270	32.5	-8.23	-0.093	26.56	1.883	696.2
800	5.524	34.539	0.48	5.455	27.256	36.281	44.906	1.365	39.8	-6.90	0.088	24.52	1.809	795.4
900	4.924	34.546	0.85	4.850	27.333	36.387	45.040	1.453	47.4	-5.29	0.087	18.71	1.580	894.5
1000	4.457	34.556	0.82	4.378	27.393	36.471	45.146	1.534	55.2	-4.35	0.117	15.87	1.456	993.5
1200	3.762	34.578	1.34	3.672	27.484	36.598	45.307	1.682	71.8	-3.12	0.094	11.37	1.232	1191.5
1400	3.224	34.595	1.65	3.122	27.550	36.694	45.429	1.816	89.5	-2.67	0.086	9.72	1.139	1389.3
1600	2.710	34.613	1.92	2.597	27.612	36.783	45.545	1.937	108.1	-2.25	0.090	8.54	1.067	1586.9
1800	2.383	34.630	2.08	2.258	27.655	36.844	45.622	2.048	127.2	-1.60	0.085	6.46	0.928	1784.3
2000	2.106	34.646	2.35	1.968	27.690	36.895	45.688	2.151	147.1	-1.16	0.067	4.86	0.806	1981.5
2200	1.949	34.656	2.51	1.796	27.712	36.926	45.728	2.248	167.9	-0.72	0.042	3.09	0.642	2178.5
2400	1.859	34.663	2.62	1.691	27.725	36.945	45.753	2.342	190.1	-0.48	0.030	2.13	0.534	2375.3
2600	1.787	34.667	2.72	1.602	27.736	36.960	45.772	2.435	213.8	-0.38	0.015	1.57	0.458	2571.9
2800	1.719	34.671	2.83	1.516	27.745	36.974	45.791	2.528	239.2	-0.40	0.021	1.78	0.487	2768.4
3000	1.658	34.675	2.93	1.438	27.754	36.988	45.808	2.619	266.2	-0.48	0.021	2.11	0.531	2964.7
3200	1.595	34.679	3.08	1.357	27.763	37.001	45.826	2.709	294.7	-0.37	0.013	1.60	0.462	3160.8
3400	1.545	34.682	3.21	1.288	27.770	37.012	45.840	2.798	324.7	-0.42	0.014	1.83	0.494	3356.7
3600	1.476	34.685	3.40	1.200	27.779	37.026	45.858	2.886	356.1	-0.38	0.019	1.80	0.491	3552.5
3800	1.424	34.689	3.61	1.129	27.787	37.038	45.874	2.973	388.9	-0.29	0.014	1.39	0.430	3748.0
4000	1.395	34.691	3.74	1.079	27.792	37.046	45.885	3.059	423.2	-0.17	0.009	0.86	0.339	3943.4
4200	1.386	34.693	3.83	1.049	27.795	37.051	45.891	3.146	459.3	-0.15	0.007	0.77	0.320	4138.7
4400	1.385	34.694	3.90	1.025	27.798	37.055	45.897	3.232	497.4	-0.11	0.005	0.54	0.270	4333.7
4600	1.390	34.695	3.96	1.007	27.800	37.057	45.900	3.320	537.7	-0.06	0.003	0.33	0.209	4528.6
4800	1.408	34.695	3.98	1.001	27.800	37.058	45.902	3.409	580.4	-0.02	0.001	0.10	0.114	4723.3
5000	1.427	34.696	4.00	0.995	27.801	37.059	45.903	3.500	625.7	-0.03	0.002	0.18	0.153	4917.9
5147	1.444	34.696	3.97	0.993	27.801	37.060	45.904	3.567	660.6	0.00	0.001	0.18	0.000	5060.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.2	26.287	26.285	22.793	31.072	38.998	34.798	34.796	4.79	1.42	0.30	0.67	0.03	1.745	0.918	7	222222222
23	48.1	26.205	26.194	22.817	31.099	39.027	34.791	34.792	4.80	1.42	0.31	0.77	0.03	1.760	0.917	47	222222222
22	73.0	19.351	19.338	24.460	32.938	41.050	34.377	34.459	4.34	3.45	0.59	2.59	0.21	2.038	1.025	72	222222222
21	98.0	13.553	13.539	25.878	34.555	42.853	34.476	34.459	1.41	18.27	1.96	25.34	0.16	1.023	0.519	97	222222222
20	121.8	12.332	12.316	26.255	34.976	43.316	34.647	34.642	0.35	26.69	2.46	32.99	0.01	0.333	0.185	121	222222222
19	148.6	11.859	11.840	26.408	35.147	43.504	34.727	34.723	0.27	28.52	2.48	34.59	0.01	0.163		147	222222225
18	172.7	11.474	11.452	26.488	35.242	43.614	34.736	34.730	0.28	29.33	2.49	34.99	0.01	0.124		171	222222225
17	197.0	11.150	11.125	26.533	35.301	43.685	34.718	34.736	0.37	30.25	2.48	35.09	0.01	0.103		195	222222225
16	245.0	10.568	10.539	26.629	35.421	43.828	34.706	34.710	0.55	32.07	2.46	35.20	0.00	0.088		243	222222225
15	296.5	10.079	10.044	26.709	35.522	43.948	34.698	34.697	0.43	33.80	2.55	36.50	0.00	0.059	0.041	294	222222222
14	396.5	9.280	9.236	26.811	35.660	44.119	34.656	34.661	0.20	39.89	2.76	38.00	0.00	0.033	0.013	393	222222222
13	497.3	8.308	8.256	26.928	35.820	44.321	34.609	34.612	0.18	48.72	2.94	39.10	0.00	0.007	-0.001	493	222222222
12	624.0	7.065	7.005	27.065	36.015	44.570	34.551	34.553	0.19	62.93	3.11	41.40	0.00	0.004	0.009	619	222222222
11	797.1	5.428	5.360	27.283	36.312	44.941	34.558	34.544	0.73	82.32	3.20	44.59	0.01		0.013	791	222222252
10	998.4	4.397	4.318	27.399	36.481	45.159	34.556	34.554	0.86	101.60	3.21	44.79	0.01	0.009	0.012	990	222222222
9	1499.3	2.921	2.814	27.587	36.746	45.497	34.605	34.605	1.77	133.57	3.01	42.59	0.01	-0.003	-0.003	1485	222222222
8	1999.9	2.091	1.953	27.691	36.896	45.690	34.645	34.646	2.34	152.96	2.86	41.19	0.01	0.001	0.013	1979	222222222
7	2500.9	1.811	1.634	27.733	36.956	45.766	34.667	34.666	2.66	159.25	2.78	40.09	0.01	-0.001	0.003	2472	222222222
6	3002.0	1.648	1.428	27.757	36.991	45.812	34.678	34.677	2.94	160.88	2.71	39.40	0.00	-0.002	-0.002	2963	222222222
5	3502.8	1.501	1.235	27.775	37.020	45.851	34.684		3.31	158.75	2.63	38.40	0.00	0.000	-0.005	3454	252222252
4	4005.6	1.394	1.078	27.792	37.046	45.885	34.692	34.692	3.74	149.21	2.52	37.00	0.00	-0.002	-0.003	3945	222222222
3	4505.5	1.387	1.015	27.798	37.055	45.898	34.694	34.695	3.90	144.03	2.48	36.40	0.00			4433	222222255
2	5151.0	1.444	0.993	27.800	37.059	45.903	34.695	34.696	3.98	142.30	2.48	36.20	0.00	0.002	-0.003	5061	222222222
1	5148.5	1.443	0.993	27.801	37.060	45.903	34.695	34.699	3.96	142.30	2.47	36.30	0.00	-0.007	-0.005	5058	222222222

CRUISE: MW 893 STA: 144 DATE (D/M/Y): 18- 4-89 TIME: 0548 LAT: 9 29.95 N LONG: 141 59.97 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24069E-04 1/S SOUND SPEED= 1505.6 M/S Depth= 5058 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.178	34.762	5.09	26.178	22.800	31.082	39.011	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
3	26.178	34.762	5.09	26.178	22.800	31.082	39.011	0.015	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.164	34.753	4.74	26.159	22.800	31.082	39.012	0.101	0.1	0.03	-0.026	-0.64	-0.293	20.0
30	26.164	34.753	4.71	26.157	22.800	31.083	39.012	0.152	0.2	-1.55	-0.144	8.86	1.087	30.0
40	26.152	34.752	4.87	26.143	22.804	31.087	39.017	0.202	0.4	-0.04	-0.016	-0.02	-0.055	40.0
50	26.139	34.750	4.87	26.128	22.807	31.090	39.020	0.253	0.6	-2.80	-0.010	20.42	1.651	50.0
100	16.284	34.425	3.44	16.268	25.245	33.824	42.030	0.455	2.1	-154.66	4.274	927.55	11.124	99.9
125	13.077	34.575	0.69	13.059	26.053	34.746	43.060	0.513	2.8	-81.15	2.337	454.86	7.790	124.8
150	12.326	34.712	0.40	12.306	26.307	35.028	43.368	0.560	3.4	-21.25	3.586	165.57	4.700	149.7
200	11.351	34.722	0.54	11.326	26.500	35.260	43.636	0.642	4.9	-12.49	-0.040	54.60	2.699	199.4
250	10.716	34.718	0.61	10.685	26.613	35.399	43.800	0.718	6.7	-12.11	-0.097	50.34	2.592	249.2
300	10.206	34.695	0.37	10.170	26.685	35.492	43.914	0.790	8.7	-8.41	-0.191	31.88	2.062	298.9
350	9.828	34.692	0.28	9.788	26.748	35.572	44.009	0.860	11.0	-8.93	-0.376	30.01	2.001	348.6
400	9.395	34.669	0.18	9.350	26.802	35.645	44.100	0.927	13.6	-9.63	-0.516	29.49	1.984	398.3
450	8.871	34.637	0.18	8.822	26.863	35.730	44.206	0.992	16.4	-10.68	-0.637	30.44	2.015	448.0
500	8.307	34.604	0.21	8.255	26.925	35.817	44.318	1.054	19.4	-13.07	-0.724	36.82	2.217	497.7
600	7.086	34.550	0.23	7.028	27.060	36.010	44.563	1.169	25.8	-10.69	-0.339	31.90	2.063	596.9
700	6.016	34.534	0.28	5.953	27.191	36.191	44.793	1.272	32.6	-8.30	-0.027	27.72	1.923	696.2
800	5.444	34.535	0.51	5.376	27.262	36.291	44.919	1.365	39.8	-5.68	0.015	18.81	1.584	795.4
900	4.859	34.544	0.74	4.785	27.339	36.397	45.052	1.452	47.3	-4.84	0.119	17.74	1.539	894.5
1000	4.465	34.556	0.93	4.386	27.392	36.470	45.144	1.533	55.1	-4.10	0.131	15.29	1.428	993.5
1200	3.679	34.580	1.38	3.589	27.494	36.613	45.325	1.680	71.6	-3.30	0.103	12.87	1.269	1191.5
1400	3.190	34.595	1.69	3.089	27.554	36.699	45.436	1.812	89.1	-2.70	0.088	9.81	1.144	1389.3
1600	2.664	34.617	1.93	2.552	27.619	36.793	45.557	1.932	107.4	-2.31	0.104	8.89	1.089	1586.9
1800	2.315	34.636	2.08	2.191	27.665	36.857	45.639	2.040	126.1	-1.34	0.071	5.41	0.849	1784.3
2000	2.091	34.648	2.29	1.953	27.694	36.899	45.693	2.141	145.7	-0.95	0.052	3.92	0.723	1981.4
2200	1.950	34.657	2.45	1.797	27.713	36.927	45.729	2.238	166.4	-0.68	0.041	2.92	0.624	2178.5
2400	1.854	34.665	2.59	1.686	27.727	36.947	45.755	2.332	188.5	-0.43	0.028	1.93	0.508	2375.3
2600	1.792	34.669	2.69	1.606	27.737	36.961	45.773	2.425	212.2	-0.47	0.018	1.90	0.504	2571.9
2800	1.721	34.673	2.80	1.518	27.746	36.976	45.792	2.517	237.6	-0.48	0.020	2.03	0.520	2768.4
3000	1.654	34.676	2.94	1.434	27.755	36.989	45.810	2.608	264.5	-0.46	0.020	2.02	0.519	2964.7
3200	1.586	34.680	3.11	1.347	27.764	37.003	45.828	2.697	292.8	-0.37	0.012	1.56	0.456	3160.8
3400	1.537	34.683	3.24	1.280	27.771	37.014	45.843	2.786	322.7	-0.41	0.013	1.77	0.486	3356.7
3600	1.466	34.686	3.45	1.190	27.780	37.028	45.861	2.874	354.0	-0.34	0.017	1.64	0.468	3552.4
3800	1.421	34.690	3.64	1.126	27.788	37.038	45.875	2.960	386.6	-0.31	0.012	1.44	0.439	3748.0
4000	1.393	34.692	3.76	1.077	27.793	37.047	45.886	3.046	420.9	-0.18	0.007	0.85	0.336	3943.4
4200	1.388	34.693	3.83	1.050	27.796	37.051	45.892	3.133	456.9	-0.12	0.006	0.59	0.281	4138.7
4400	1.389	34.694	3.89	1.028	27.798	37.054	45.896	3.220	495.1	-0.09	0.005	0.50	0.258	4333.7
4600	1.399	34.695	3.93	1.016	27.799	37.056	45.899	3.308	535.5	-0.05	0.002	0.28	0.194	4528.6
4800	1.414	34.696	3.97	1.007	27.800	37.058	45.901	3.397	578.3	-0.04	0.003	0.23	0.173	4723.3
5000	1.430	34.696	4.00	0.998	27.801	37.059	45.903	3.488	623.6	-0.04	0.004	0.25	0.184	4917.9
5129	1.442	34.697	4.00	0.994	27.802	37.060	45.904	3.547	654.2	-0.04	0.003	0.25	0.000	5043.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.9	26.145	26.143	22.810	31.093	39.023	34.761	34.764	5.04	1.32	0.29	0.40	0.00	1.748	0.924	5	222222222
23	46.9	26.139	26.129	22.814	31.097	39.027	34.760	34.758	5.04	1.52	0.40	0.50	0.00	1.743	0.915	46	222222222
22	95.4	16.088	16.073	25.276	33.861	42.074	34.407	34.443	2.73	9.74	1.29	15.23	0.47	1.612	0.816	94	222222222
21	121.9	13.004	12.987	26.088	34.784	43.100	34.602	34.608	0.46	24.46	2.38	31.80	0.00	0.481	0.253	121	222222222
20	146.6	12.038	12.019	26.369	35.101	43.452	34.721	34.718	0.28	28.12	2.46	34.10	0.00	0.190	0.123	145	222222222
19	172.4	11.536	11.514	26.474	35.226	43.595	34.734	34.732	0.35	29.23	2.45	34.60	0.00	0.133	0.080	171	222222222
18	197.8	11.214	11.189	26.537	35.302	43.684	34.738	34.732	0.52	29.84	2.42	34.60	0.00	0.123		196	222222225
17	246.5	10.695	10.665	26.617	35.404	43.806	34.719	34.718	0.56	31.87	2.54	35.20	0.00	0.085		244	222222225
16	297.4	10.208	10.173	26.693	35.500	43.921	34.705	34.702	0.44	33.70	2.53	36.40	0.00	0.058	0.034	295	222222222
15	395.9	9.402	9.358	26.805	35.648	44.102	34.673	34.674	0.17	39.89	2.75	38.10	0.00	0.016		393	222222225
14	496.5	8.396	8.344	26.913	35.801	44.298	34.606	34.608	0.26	48.42	2.89	39.00	0.00	0.013	0.014	493	222222222
13	597.7	7.315	7.257	27.034	35.973	44.516	34.557	34.564	0.22	60.09	3.07	40.90	0.00	0.001	-0.001	593	222222222
12	696.1	6.222	6.160	27.164	36.155	44.748	34.534	34.532	0.29	73.99	3.18	43.50	0.00			691	222222255
11	796.4	5.471	5.403	27.259	36.286	44.913	34.534	34.533	0.54	83.84	3.19	44.70	0.00	0.001	0.001	790	222222222
10	996.3	4.499	4.419	27.386	36.462	45.135	34.553	34.553	0.93	100.28	3.18	44.70	0.00			988	222222255
9	1498.7	2.875	2.769	27.593	36.755	45.508	34.608	34.606	1.79	135.20	2.99	42.50	0.00	0.000	-0.003	1484	222222252
8	2001.6	2.084	1.946	27.695	36.901	45.695	34.649	34.649	2.30	154.89	2.85	41.30	0.00			1980	222222255
7	2499.2	1.821	1.644	27.732	36.955	45.764	34.667	34.665	2.61	159.66	2.79	40.10	0.00	0.001	-0.003	2470	222222222
6	3003.6	1.646	1.426	27.755	36.990	45.811	34.676	34.676	2.97	160.98	2.67	39.20	0.00			2965	222222255
5	3501.1	1.483	1.217	27.778	37.024	45.856	34.685	34.686	3.39	157.73	2.59	38.10	0.00	-0.002	-0.005	3452	222222222
4	4005.4	1.391	1.075	27.792	37.046	45.886	34.691	34.691	3.74	148.60	2.50	37.00	0.00			3945	222222255
3	4528.5	1.396	1.021	27.798	37.055	45.898	34.694	34.695	3.92	145.25	2.48	36.40	0.00	0.004	0.006	4455	222222222
2	5002.9	1.431	0.999	27.800	37.058	45.902	34.695	34.694	3.98	143.42	2.45	36.20	0.00	0.001	0.003	4917	222222222
1	5131.4	1.442	0.994	27.801	37.060	45.904	34.696	34.696	4.01	142.81	2.47	36.10	0.00	-0.002	-0.005	5042	222222222

CRUISE: MW 893 STA: 145 DATE (D/M/Y): 18- 4-89 TIME: 1510 LAT: 9 29.55 N LONG: 141 9.91 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1506.0 M/S Depth= 5120 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.243	34.565	5.19	26.243	22.632	30.914	38.844	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.243	34.565	5.19	26.243	22.632	30.914	38.844	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.262	34.793	5.03	26.258	22.799	31.078	39.005	0.101	0.1	-0.19	-0.029	0.91	0.348	20.0
30	26.263	34.793	5.06	26.256	22.799	31.079	39.005	0.152	0.2	0.03	0.016	0.04	0.073	30.0
40	26.267	34.793	5.05	26.258	22.798	31.078	39.005	0.203	0.4	-0.18	0.031	1.87	0.500	40.0
50	26.265	34.793	5.05	26.253	22.800	31.080	39.007	0.253	0.6	-26.76	-3.903	127.75	4.130	50.0
100	16.749	34.533	4.24	16.733	25.220	33.781	41.971	0.436	2.0	-152.54	-7.068	713.49	9.760	99.9
125	13.548	34.669	0.44	13.531	26.030	34.704	43.000	0.495	2.7	-52.09	13.199	517.79	8.314	124.8
150	12.153	34.714	0.49	12.133	26.342	35.070	43.416	0.541	3.3	-31.77	1.615	185.56	4.977	149.7
200	11.204	34.726	0.66	11.179	26.530	35.295	43.677	0.622	4.8	-13.47	-0.115	57.15	2.762	199.4
250	10.624	34.715	0.70	10.594	26.626	35.416	43.821	0.697	6.5	-9.92	-0.198	38.87	2.278	249.2
300	10.211	34.705	0.47	10.176	26.692	35.499	43.920	0.769	8.5	-9.54	-0.307	34.40	2.143	298.9
350	9.793	34.690	0.26	9.753	26.752	35.578	44.016	0.838	10.8	-7.72	-0.321	25.93	1.860	348.6
400	9.411	34.672	0.22	9.366	26.802	35.645	44.099	0.905	13.3	-9.87	-0.539	29.98	2.001	398.3
450	8.959	34.641	0.25	8.909	26.852	35.714	44.187	0.970	16.2	-11.83	-1.049	27.46	1.915	448.0
500	8.173	34.581	0.51	8.121	26.927	35.825	44.332	1.032	19.2	-13.91	-0.890	36.56	2.209	497.6
600	7.079	34.547	0.22	7.021	27.059	36.009	44.563	1.148	25.6	-10.56	-0.212	33.76	2.123	596.9
700	6.113	34.529	0.28	6.051	27.174	36.170	44.768	1.251	32.5	-8.64	-0.048	28.44	1.948	696.2
800	5.365	34.540	0.37	5.297	27.276	36.309	44.940	1.344	39.6	-6.39	0.165	24.09	1.794	795.3
900	4.837	34.547	0.58	4.764	27.343	36.402	45.059	1.430	47.0	-5.32	0.066	18.16	1.557	894.4
1000	4.336	34.559	0.87	4.258	27.408	36.493	45.173	1.510	54.8	-5.06	0.117	17.93	1.547	993.5
1200	3.669	34.580	1.36	3.580	27.495	36.614	45.327	1.654	70.9	-2.94	0.085	10.56	1.187	1191.5
1400	3.157	34.597	1.65	3.056	27.559	36.705	45.444	1.785	88.3	-2.54	0.083	9.20	1.108	1389.3
1600	2.686	34.615	1.97	2.574	27.616	36.788	45.550	1.905	106.6	-2.14	0.093	8.19	1.046	1586.8
1800	2.348	34.632	2.18	2.223	27.658	36.849	45.630	2.014	125.5	-1.52	0.082	6.14	0.906	1784.2
2000	2.107	34.647	2.27	1.969	27.691	36.896	45.689	2.116	145.2	-0.92	0.052	3.81	0.713	1981.4
2200	1.964	34.656	2.42	1.811	27.711	36.924	45.725	2.214	166.1	-0.70	0.044	3.04	0.637	2178.4
2400	1.870	34.663	2.56	1.701	27.725	36.944	45.751	2.308	188.3	-0.41	0.027	1.84	0.496	2375.3
2600	1.807	34.667	2.65	1.621	27.734	36.958	45.769	2.402	212.2	-0.46	0.019	1.91	0.505	2571.9
2800	1.733	34.671	2.76	1.531	27.744	36.972	45.788	2.495	237.7	-0.48	0.022	2.07	0.525	2768.4
3000	1.660	34.674	2.89	1.440	27.753	36.987	45.807	2.586	264.7	-0.41	0.018	1.81	0.491	2964.6
3200	1.586	34.678	3.04	1.348	27.763	37.001	45.826	2.676	293.2	-0.43	0.011	1.78	0.487	3160.7
3400	1.535	34.681	3.18	1.278	27.770	37.013	45.841	2.765	323.2	-0.37	0.017	1.69	0.474	3356.7
3600	1.455	34.685	3.39	1.179	27.780	37.028	45.862	2.853	354.6	-0.50	0.026	2.42	0.569	3552.4
3800	1.409	34.689	3.62	1.114	27.788	37.040	45.877	2.939	387.2	-0.32	0.017	1.57	0.457	3748.0
4000	1.382	34.692	3.76	1.066	27.793	37.047	45.887	3.025	421.3	-0.17	0.011	0.87	0.341	3943.4
4200	1.381	34.693	3.83	1.043	27.796	37.051	45.892	3.111	457.3	-0.09	0.003	0.41	0.235	4138.6
4400	1.391	34.694	3.87	1.031	27.797	37.053	45.895	3.198	495.4	-0.05	0.003	0.27	0.189	4333.7
4600	1.404	34.694	3.90	1.020	27.798	37.055	45.898	3.286	535.9	-0.06	0.004	0.34	0.214	4528.6
4800	1.418	34.695	3.94	1.010	27.799	37.057	45.900	3.376	578.8	-0.04	0.003	0.24	0.178	4723.3
5000	1.437	34.695	3.96	1.005	27.800	37.058	45.901	3.467	624.3	-0.02	0.002	0.13	0.134	4917.9
5195	1.458	34.696	3.96	1.001	27.801	37.059	45.902	3.557	671.2	-0.02	0.003	0.13	0.000	5107.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.4	26.209	26.208	22.803	31.084	39.012	34.778	34.783	4.98	0.10	0.30	0.38	0.02	1.759	0.948	6	222222222
23	47.5	26.218	26.207	22.803	31.084	39.012	34.778	34.780	4.94	0.20	0.30	0.48	0.02	1.750	0.905	47	222222222
22	97.2	17.611	17.595	25.086	33.617	41.779	34.626	34.641	4.26	2.13	0.61	5.19	0.21	2.186	1.097	96	222222222
21	121.6	13.688	13.670	25.989	34.658	42.949	34.653	34.624	0.46	21.52	2.39	31.48	0.02	0.545	0.268	120	222222222
20	147.7	12.105	12.086	26.351	35.080	43.428	34.713	34.707	0.40	25.98	2.48	33.89	0.01	0.227	0.131	146	222222222
19	171.2	11.550	11.528	26.466	35.217	43.586	34.726	34.721	0.44	27.61	2.53	34.39	0.01	0.154		170	222222225
18	197.7	11.238	11.213	26.524	35.288	43.669	34.726	34.725	0.44	28.62	2.55	34.69	0.01	0.118	0.073	196	222222222
17	246.6	10.613	10.583	26.630	35.420	43.825	34.717	34.715	0.54	30.25	2.55	35.49	0.01	0.080		245	222222225
16	296.3	10.206	10.171	26.692	35.500	43.921	34.704	34.705	0.44	32.18	2.60	36.50	0.00	0.054		294	222222225
15	398.2	9.355	9.311	26.809	35.653	44.110	34.668	34.670	0.18	38.57	2.76	38.10	0.00	0.011		395	222222225
14	497.8	8.181	8.130	26.926	35.825	44.331	34.582	34.581	0.43	47.91	2.90	38.80	0.00	0.017		494	222222225
13	596.9	7.085	7.028	27.058	36.008	44.562	34.547	34.546	0.21	61.92	3.11	41.30	0.00	-0.001	0.008	592	222222222
12	697.9	6.006	5.944	27.195	36.196	44.798	34.538	34.528	0.28	75.72	3.22	44.10	0.00	-0.002	0.000	692	222222225
11	796.6	5.274	5.207	27.287	36.324	44.960	34.540	34.540	0.48	85.67	3.27	45.40	0.00			790	222222255
10	996.7	4.321	4.243	27.409	36.494	45.176	34.558	34.558	0.91	103.12	3.21	45.00	0.00	0.007	0.005	988	222222222
9	1499.0	2.879	2.773	27.591	36.753	45.506	34.606	34.606	1.81	134.28	2.99	42.50	0.00			1485	222222255
8	2000.1	2.092	1.954	27.693	36.899	45.693	34.648	34.647	2.28	154.28	2.88	41.40	0.00	-0.006	-0.002	1979	222222222
7	2501.4	1.831	1.654	27.730	36.952	45.761	34.666	34.664	2.60	159.76	2.78	40.20	0.00			2472	222222255
6	3000.1	1.654	1.434	27.754	36.988	45.809	34.675	34.675	2.90	162.81	2.72	39.50	0.00	-0.003	-0.003	2962	222222222
5	3502.1	1.498	1.232	27.775	37.020	45.851	34.683	34.686	3.29	160.17	2.63	38.40	0.00			3453	222222255
4	4003.7	1.382	1.066	27.793	37.047	45.887	34.691			147.99	2.53	37.20	0.00	0.000	0.004	3943	255222252
3	4503.5	1.398	1.026	27.797	37.054	45.896	34.693	34.693	3.89	145.45	2.48	36.50	0.00			4431	222222255
2	5003.1	1.438	1.006	27.799	37.057	45.900	34.694	34.695	3.95	143.52	2.47	36.20	0.00	0.002		4917	222222225
1	5198.5	1.458	1.001	27.800	37.058	45.902	34.695	34.695	3.96	143.52	2.47	36.20	0.00	-0.004	0.000	5107	222222225

CRUISE: MW 893 STA: 146 DATE (D/M/Y): 19- 4-89 TIME: 0006 LAT: 9 29.45 N LONG: 140 20.02 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24048E-04 1/S SOUND SPEED= 1505.0 M/S Depth= 4976 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.227	34.767	4.16	26.227	22.789	31.070	38.997	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
3	26.227	34.767	4.16	26.226	22.789	31.070	38.998	0.015	0.0	-0.45	0.000	0.00	0.000	3.0
20	26.230	34.756	5.05	26.226	22.781	31.062	38.989	0.101	0.1	-6.34	-0.299	41.39	2.351	20.0
30	26.158	34.754	5.12	26.152	22.802	31.085	39.015	0.152	0.2	-3.90	-0.030	28.17	1.939	30.0
40	26.140	34.754	5.12	26.131	22.809	31.092	39.022	0.203	0.4	-0.82	0.033	6.60	0.939	40.0
50	26.131	34.754	5.06	26.120	22.812	31.096	39.026	0.253	0.6	-2.67	-0.348	13.51	1.343	50.0
100	16.638	34.442	2.81	16.622	25.176	33.742	41.937	0.462	2.2	-187.53	-0.344	1046.98	11.824	99.9
125	13.166	34.579	0.79	13.149	26.037	34.727	43.038	0.521	2.9	-51.75	15.616	570.20	8.726	124.8
150	12.455	34.753	0.39	12.435	26.314	35.029	43.363	0.567	3.5	-28.14	1.172	156.22	4.567	149.7
200	11.502	34.752	0.48	11.477	26.495	35.248	43.618	0.649	5.0	-14.77	-0.421	58.09	2.785	199.4
250	10.768	34.729	0.43	10.737	26.612	35.396	43.794	0.726	6.7	-10.12	-0.277	38.66	2.272	249.2
300	10.454	34.717	0.23	10.418	26.660	35.457	43.868	0.798	8.8	-8.12	-0.348	28.08	1.937	298.9
350	9.824	34.689	0.18	9.784	26.746	35.570	44.007	0.869	11.1	-12.47	-0.617	40.21	2.317	348.6
400	9.319	34.661	0.14	9.275	26.808	35.655	44.113	0.936	13.6	-11.27	-0.636	33.58	2.117	398.3
450	8.717	34.622	0.29	8.668	26.875	35.749	44.232	1.000	16.4	-10.19	-0.465	31.28	2.044	448.0
500	8.118	34.591	0.45	8.066	26.943	35.844	44.352	1.061	19.4	-13.13	-0.820	34.70	2.152	497.7
600	6.968	34.540	0.58	6.910	27.069	36.024	44.583	1.175	25.8	-9.81	-0.293	29.50	1.985	597.0
700	5.994	34.515	0.49	5.932	27.178	36.180	44.784	1.278	32.6	-9.93	-0.002	33.27	2.108	696.2
800	5.271	34.542	0.62	5.204	27.288	36.325	44.961	1.370	39.6	-5.61	0.150	20.94	1.672	795.4
900	4.722	34.549	0.75	4.650	27.357	36.422	45.084	1.455	47.0	-4.96	0.125	18.02	1.551	894.5
1000	4.307	34.560	1.01	4.229	27.412	36.498	45.180	1.533	54.6	-3.95	0.108	14.21	1.377	993.5
1200	3.643	34.579	1.29	3.554	27.497	36.617	45.332	1.677	70.7	-2.99	0.096	10.87	1.205	1191.5
1400	3.107	34.598	1.57	3.006	27.564	36.713	45.454	1.807	87.9	-2.40	0.089	8.90	1.090	1389.3
1600	2.703	34.617	1.80	2.590	27.616	36.787	45.549	1.926	106.1	-2.02	0.076	7.55	1.004	1586.9
1800	2.361	34.632	2.05	2.236	27.658	36.848	45.628	2.036	125.2	-1.83	0.081	7.10	0.974	1784.3
2000	2.102	34.646	2.35	1.964	27.691	36.895	45.689	2.138	144.9	-0.97	0.060	4.13	0.743	1981.4
2200	1.953	34.656	2.49	1.800	27.712	36.926	45.727	2.235	165.7	-0.66	0.044	2.90	0.622	2178.5
2400	1.875	34.663	2.55	1.706	27.724	36.943	45.750	2.330	187.9	-0.40	0.023	1.75	0.483	2375.3
2600	1.812	34.667	2.63	1.626	27.734	36.957	45.768	2.424	211.8	-0.44	0.018	1.81	0.492	2571.9
2800	1.734	34.671	2.76	1.531	27.744	36.973	45.788	2.516	237.3	-0.48	0.021	2.05	0.524	2768.4
3000	1.658	34.675	2.91	1.438	27.754	36.988	45.808	2.608	264.4	-0.49	0.017	2.08	0.527	2964.7
3200	1.579	34.679	3.07	1.341	27.764	37.003	45.829	2.698	292.8	-0.46	0.019	2.05	0.523	3160.8
3400	1.523	34.682	3.23	1.266	27.772	37.015	45.844	2.787	322.7	-0.41	0.017	1.85	0.497	3356.7
3600	1.459	34.686	3.45	1.184	27.781	37.029	45.862	2.874	353.9	-0.43	0.021	2.05	0.524	3552.4
3800	1.406	34.690	3.65	1.111	27.789	37.040	45.878	2.960	386.4	-0.26	0.014	1.26	0.411	3748.0
4000	1.387	34.692	3.77	1.071	27.793	37.047	45.887	3.046	420.5	-0.18	0.010	0.92	0.350	3943.4
4200	1.382	34.693	3.84	1.045	27.796	37.051	45.892	3.132	456.5	-0.13	0.005	0.64	0.291	4138.7
4400	1.384	34.694	3.91	1.024	27.798	37.055	45.897	3.219	494.6	-0.08	0.004	0.41	0.235	4333.7
4600	1.396	34.694	3.94	1.012	27.799	37.056	45.899	3.307	534.9	-0.04	0.001	0.20	0.164	4528.6
4800	1.411	34.695	3.98	1.004	27.800	37.058	45.901	3.396	577.7	-0.03	0.002	0.17	0.150	4723.3
5000	1.433	34.695	3.99	1.001	27.801	37.059	45.902	3.487	623.1	-0.01	0.002	0.17	0.000	4917.9
5053	1.440	34.696	3.98	1.001	27.801	37.059	45.902	3.511	635.5	-0.01	0.002	0.17	0.000	4969.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.3	26.167	26.166	22.795	31.077	39.006	34.750	34.758	5.02	2.13	0.29	0.39	0.01	1.749	0.947	7	222222222
23	47.7	25.973	25.963	22.875	31.162	39.096	34.772	34.740	5.05	1.93	0.29	0.39	0.01	1.791	0.984	47	222222222
22	72.1	24.605	24.590	23.087	31.413	39.382	34.497	34.499	4.91	2.13	0.33	0.46	0.04	1.886	0.984	71	222222222
21	97.8	17.442	17.426	25.058	33.596	41.764	34.537	34.560	3.42	7.31	0.97	10.18	0.52	1.835	0.930	97	222222222
20	121.1	13.925	13.907	25.841	34.503	42.788	34.526	34.501	1.03	21.11	2.14	27.89	0.01	0.842	0.424	120	222222222
19	147.6	12.692	12.672	26.262	34.968	43.294	34.746	34.740	0.29	26.90	2.44	34.20	0.00	0.256	0.159	146	222222222
18	172.5	11.950	11.927	26.419	35.154	43.507	34.762	34.760	0.33	28.52	2.44	34.70	0.00	0.168		171	222222225
17	197.0	11.554	11.529	26.490	35.241	43.609	34.757	34.753	0.38	29.74	2.45	34.80	0.00	0.133		195	222222225
16	248.7	10.767	10.737	26.613	35.397	43.795	34.730	34.731	0.37	32.48	2.51	35.50	0.00	0.090	0.062	247	222222222
15	296.5	10.425	10.390	26.665	35.463	43.875	34.718	34.716	0.18	34.61	2.62	36.10	0.00	0.050		294	222222225
14	396.1	9.278	9.234	26.802	35.650	44.110	34.644	34.678	0.12	41.72	2.81	37.50	0.00	0.020	0.012	393	222222222
13	496.7	8.064	8.013	26.943	35.846	44.357	34.580	34.589	0.43	50.34	2.89	39.00	0.00	0.007	0.015	493	222222222
12	593.6	6.966	6.910	27.064	36.019	44.578	34.533	34.546	0.61	62.22	3.02	40.90	0.00	0.000		589	222222255
11	698.6	5.829	5.767	27.199	36.208	44.819	34.515	34.514	0.60	78.87	3.17	43.30	0.00		0.021	693	222222252
10	798.1	5.270	5.203	27.290	36.327	44.963	34.544	34.542	0.60	86.28	3.21	45.00	0.00	0.007		792	222222225
9	997.3	4.279	4.201	27.417	36.504	45.187	34.562	34.563	1.03	103.83	3.20	44.50	0.00	-0.003	0.003	989	222222222
8	1498.2	2.893	2.786	27.593	36.754	45.506	34.610	34.608	1.70	135.10	3.04	42.80	0.00	-0.003	-0.005	1484	222222222
7	2003.8	2.087	1.949	27.693	36.898	45.693	34.647	34.647	2.36	152.25	2.86	40.80	0.00	-0.003	0.001	1983	222222222
6	2508.6	1.842	1.664	27.729	36.951	45.759	34.665	34.668	2.59	159.46	2.81	40.10	0.00	0.002		2479	222222225
5	3002.2	1.660	1.440	27.754	36.988	45.808	34.675	34.676	2.90	162.20	2.73	39.30	0.00	-0.003	0.009	2964	222222222
4	3503.7	1.486	1.220	27.777	37.022	45.854	34.684	34.685	3.35	158.24	2.62	37.90	0.00	-0.001	0.004	3455	222222222
3	4005.6	1.388	1.072	27.792	37.046	45.886	34.691	34.693	3.80	148.60	2.54	36.70	0.00	-0.003	-0.003	3945	222222222
2	4505.7	1.388	1.016	27.799	37.056	45.898	34.694	34.695	3.93	144.33	2.51	36.20	0.00	0.000	0.007	4433	222222252
1	5056.6	1.440	1.001	27.800	37.058	45.901	34.695	34.697	3.96	142.81	2.53	36.10	0.00	-0.004	-0.001	4969	222222222

CRUISE: MW 893 STA: 147 DATE (D/M/Y): 19- 4-89 TIME: 0826 LAT: 9 29.99 N LONG: 139 30.01 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1505.4 M/S Depth= 5042 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.339	34.816	4.65	26.339	22.791	31.068	38.992	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.339	34.816	4.65	26.339	22.791	31.068	38.993	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.357	34.795	4.90	26.353	22.770	31.048	38.972	0.102	0.1	-0.58	-0.103	2.46	0.573	20.0
30	26.354	34.794	5.00	26.347	22.771	31.049	38.973	0.152	0.2	0.18	0.004	-1.30	-0.417	30.0
40	26.356	34.794	5.03	26.347	22.771	31.049	38.973	0.203	0.4	0.51	0.089	-2.21	-0.543	40.0
50	26.352	34.793	5.02	26.341	22.772	31.050	38.975	0.254	0.6	-1.59	-0.258	7.22	0.981	50.0
100	17.130	34.449	3.49	17.114	25.065	33.615	41.794	0.477	2.3	-232.47	-4.144	1301.34	13.176	99.9
125	13.516	34.344	2.41	13.498	25.785	34.464	42.766	0.541	3.0	-64.60	16.559	639.20	9.234	124.8
150	12.301	34.675	0.53	12.282	26.283	35.005	43.346	0.590	3.7	-39.45	5.333	291.00	6.231	149.7
200	11.100	34.725	0.46	11.075	26.548	35.318	43.704	0.671	5.2	-15.57	-0.123	65.81	2.963	199.5
250	10.483	34.705	0.37	10.453	26.644	35.439	43.850	0.745	6.9	-12.45	-0.546	42.76	2.389	249.2
300	9.952	34.689	0.33	9.917	26.724	35.542	43.974	0.816	8.8	-10.57	-0.307	38.08	2.254	298.9
350	9.415	34.665	0.28	9.376	26.795	35.637	44.091	0.883	11.1	-9.97	-0.542	30.30	2.011	348.6
400	8.934	34.640	0.21	8.891	26.854	35.717	44.191	0.948	13.5	-10.07	-0.416	32.07	2.069	398.3
450	8.449	34.614	0.23	8.401	26.911	35.796	44.290	1.010	16.2	-11.24	-0.697	30.35	2.012	448.0
500	7.813	34.575	0.40	7.763	26.976	35.891	44.413	1.070	19.1	-9.57	-0.397	28.30	1.943	497.7
600	6.776	34.538	0.56	6.719	27.093	36.057	44.625	1.181	25.3	-9.59	-0.256	29.09	1.970	597.0
700	6.055	34.528	0.55	5.992	27.181	36.180	44.780	1.282	32.0	-8.25	-0.212	23.59	1.774	696.2
800	5.316	34.540	0.47	5.249	27.282	36.317	44.951	1.375	39.1	-6.57	0.148	24.17	1.795	795.4
900	4.769	34.549	0.80	4.696	27.352	36.415	45.075	1.459	46.5	-4.97	0.123	18.00	1.550	894.5
1000	4.284	34.561	0.93	4.206	27.415	36.502	45.185	1.538	54.1	-4.11	0.115	14.90	1.410	993.5
1200	3.640	34.580	1.29	3.550	27.498	36.619	45.333	1.682	70.2	-3.01	0.097	10.96	1.209	1191.5
1400	3.129	34.600	1.56	3.027	27.563	36.711	45.451	1.812	87.5	-2.44	0.088	8.99	1.095	1389.3
1600	2.732	34.615	1.80	2.619	27.612	36.782	45.542	1.931	105.7	-1.94	0.082	7.36	0.991	1586.9
1800	2.379	34.632	2.05	2.254	27.656	36.846	45.624	2.041	124.7	-1.37	0.072	5.51	0.857	1784.3
2000	2.135	34.644	2.32	1.997	27.687	36.890	45.682	2.144	144.7	-1.06	0.054	4.32	0.759	1981.5
2200	1.969	34.656	2.41	1.816	27.711	36.923	45.724	2.242	165.6	-0.76	0.053	3.41	0.675	2178.5
2400	1.870	34.663	2.57	1.701	27.725	36.944	45.751	2.337	187.8	-0.40	0.025	1.77	0.486	2375.3
2600	1.816	34.668	2.62	1.630	27.734	36.957	45.768	2.430	211.7	-0.35	0.018	1.52	0.451	2571.9
2800	1.749	34.671	2.74	1.545	27.743	36.971	45.785	2.523	237.3	-0.43	0.018	1.82	0.493	2768.4
3000	1.670	34.675	2.86	1.449	27.753	36.986	45.806	2.615	264.5	-0.53	0.020	2.27	0.550	2964.7
3200	1.596	34.679	3.03	1.358	27.763	37.001	45.825	2.705	293.0	-0.40	0.014	1.73	0.481	3160.8
3400	1.533	34.682	3.17	1.276	27.771	37.013	45.842	2.795	323.0	-0.40	0.015	1.79	0.489	3356.7
3600	1.457	34.686	3.40	1.181	27.781	37.029	45.863	2.882	354.4	-0.43	0.018	1.98	0.515	3552.5
3800	1.398	34.690	3.63	1.103	27.790	37.042	45.880	2.969	386.9	-0.37	0.021	1.86	0.498	3748.0
4000	1.378	34.693	3.75	1.062	27.794	37.049	45.889	3.054	420.8	-0.14	0.009	0.74	0.314	3943.4
4200	1.375	34.694	3.83	1.038	27.797	37.053	45.894	3.140	456.7	-0.11	0.004	0.55	0.271	4138.7
4400	1.381	34.694	3.89	1.021	27.799	37.055	45.898	3.226	494.6	-0.06	0.002	0.27	0.191	4333.7
4600	1.392	34.695	3.93	1.009	27.800	37.058	45.900	3.314	534.8	-0.02	0.001	0.13	0.133	4528.6
4800	1.413	34.696	3.94	1.005	27.800	37.058	45.901	3.403	577.6	-0.02	0.002	0.11	0.124	4723.3
5000	1.435	34.696	3.97	1.003	27.801	37.059	45.902	3.494	622.9	-0.01	0.002	0.09	0.108	4917.9
5107	1.448	34.696	3.96	1.002	27.801	37.059	45.902	3.543	648.3	-0.01	0.001	0.09	0.000	5021.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.8	26.309	26.307	22.780	31.059	38.984	34.789	34.789	5.07	1.01	0.31	0.48	0.02	1.670	0.910	5	222222222
23	49.2	26.323	26.312	22.778	31.057	38.982	34.789	34.788	5.07	1.01	0.33	0.48	0.02	1.751	0.950	48	222222222
22	97.3	15.707	15.691	25.353	33.952	42.178	34.395	34.461	3.52	6.70	0.97	9.41	0.29	1.896	0.966	96	222222222
21	123.6	13.115	13.098	26.066	34.757	43.070	34.603	34.622	0.40	22.84	2.42	31.38	0.02	0.523	0.272	122	222222222
20	147.1	12.093	12.074	26.325	35.055	43.404	34.678	34.695	0.33	27.20	2.51	33.89	0.01	0.233	0.141	146	222222222
19	172.8	11.545	11.523	26.471	35.223	43.592	34.732	34.721	0.36	28.62	2.52	34.50	0.00	0.157	0.102	171	222222222
18	196.3	11.277	11.252	26.512	35.275	43.654	34.721	34.722	0.40	29.54	2.52	34.60	0.00	0.119		195	222222225
17	248.7	10.676	10.646	26.616	35.404	43.806	34.713	34.713	0.49	31.16	2.53	35.10	0.00	0.080	0.055	247	222222222
16	297.7	10.066	10.031	26.705	35.518	43.945	34.689	34.690	0.24	34.51	2.66	36.70	0.00	0.033	0.024	295	222222222
15	346.6	9.599	9.560	26.773	35.607	44.053	34.676	34.675	0.20	36.84	2.73	37.70	0.00	0.018		344	222222225
14	395.0	9.155	9.111	26.828	35.681	44.146	34.651	34.655	0.16	40.60	2.84	38.60	0.00	0.018		392	222222225
13	497.2	8.045	7.994	26.938	35.843	44.355	34.571	34.587	0.30	50.45	2.98	39.10	0.00	0.004		493	222222225
12	599.2	6.812	6.756	27.089	36.051	44.617	34.539	34.542	0.47	62.73	3.08	41.80	0.00	-0.001		594	222222225
11	697.0	5.990	5.928	27.187	36.189	44.792	34.525	34.526	0.51	73.89	3.17	43.31	-0.01			691	222222255
10	798.5	5.242	5.175	27.293	36.332	44.970	34.544	34.538	0.46	86.07	3.28	45.31	-0.01			792	222222255
9	997.8	4.244	4.166	27.421	36.511	45.195	34.563	34.560	0.90	104.65	3.24	45.21	-0.01			989	222222255
8	1498.7	2.884	2.777	27.593	36.754	45.507	34.609	34.607	1.74	134.59	3.04	42.61	-0.01	-0.004	-0.005	1484	222222222
7	1999.1	2.120	1.982	27.690	36.893	45.686	34.646	34.645	2.24	152.86	2.90	41.30	0.00	0.001	-0.003	1978	222222222
6	2500.5	1.837	1.660	27.730	36.951	45.760	34.665	34.666	2.59	159.66	2.83	40.10	0.00			2471	222222255
5	2993.8	1.668	1.448	27.753	36.986	45.806	34.675	34.675	2.88	161.49	2.74	39.20	0.00			2955	222222255
4	3504.2	1.490	1.224	27.776	37.021	45.853	34.684		3.29	156.21	2.66	38.30	0.00			3455	252222255
3	4003.7	1.377	1.061	27.794	37.048	45.888	34.692	34.693	3.79	147.28	2.51	36.60	0.00	0.002	0.009	3943	222222222
2	4504.9	1.386	1.014	27.799	37.056	45.899	34.695	34.695	3.94	143.62	2.48	36.20	0.00	-0.003	-0.003	4432	222222222
1	5109.4	1.448	1.002	27.800	37.058	45.902	34.695	34.698	3.94	142.40	2.49	36.10	0.00	-0.004	-0.005	5020	222222222

CRUISE: MW 895 STA: 148 DATE (D/M/Y): 19- 4-89 TIME: 1642 LAT: 9 29.83 N LONG: 138 40.02 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1504.3 M/S Depth= 4924 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.425	34.828	5.05	26.425	22.773	31.048	38.970	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.425	34.828	5.05	26.425	22.773	31.048	38.970	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.424	34.826	4.89	26.420	22.773	31.048	38.971	0.102	0.1	-0.15	-0.064	-0.02	-0.046	20.0
30	26.425	34.826	4.89	26.419	22.773	31.049	38.971	0.152	0.2	-0.11	-0.049	-0.05	-0.078	30.0
40	26.427	34.826	4.97	26.418	22.773	31.049	38.971	0.203	0.4	0.01	-0.004	-0.15	-0.141	40.0
50	26.429	34.826	4.90	26.418	22.773	31.049	38.971	0.254	0.6	0.01	-0.005	-0.14	-0.135	50.0
100	18.277	34.459	3.82	18.260	24.795	33.306	41.450	0.480	2.3	-211.70	-5.143	1187.36	12.588	99.9
125	14.186	34.282	3.72	14.168	25.598	34.253	42.532	0.549	3.1	-126.43	-3.804	565.51	8.687	124.8
150	12.666	34.540	1.00	12.646	26.107	34.817	43.147	0.603	3.9	-34.28	7.824	308.90	6.420	149.7
200	11.388	34.683	0.31	11.363	26.463	35.222	43.597	0.690	5.4	-17.96	0.801	94.05	3.543	199.5
250	10.587	34.688	0.18	10.557	26.612	35.404	43.810	0.767	7.2	-14.75	-0.560	52.74	2.653	249.2
300	9.940	34.650	0.14	9.905	26.695	35.515	43.947	0.839	9.2	-14.26	-0.944	41.56	2.355	298.9
350	9.287	34.620	0.13	9.248	26.781	35.629	44.088	0.907	11.5	-14.37	-0.694	44.54	2.438	348.7
400	8.488	34.573	0.18	8.446	26.871	35.756	44.249	0.972	13.9	-15.70	-0.936	42.79	2.390	398.4
450	7.780	34.540	0.27	7.735	26.952	35.869	44.392	1.032	16.5	-12.56	-0.461	37.66	2.242	448.0
500	7.254	34.531	0.51	7.205	27.021	35.963	44.509	1.089	19.3	-7.04	0.220	29.26	1.976	497.7
600	6.321	34.507	0.45	6.266	27.129	36.115	44.703	1.196	25.3	-10.07	-0.133	31.55	2.052	597.0
700	5.415	34.518	0.52	5.356	27.251	36.281	44.911	1.292	31.6	-6.26	0.265	25.30	1.837	696.2
800	4.965	34.544	0.60	4.900	27.325	36.377	45.028	1.378	38.2	-4.90	0.112	17.49	1.528	795.4
900	4.510	34.556	0.91	4.439	27.386	36.461	45.133	1.459	45.2	-4.57	0.105	16.03	1.462	894.5
1000	4.120	34.566	1.03	4.043	27.437	36.532	45.223	1.534	52.5	-3.32	0.075	11.54	1.241	993.5
1200	3.522	34.586	1.45	3.434	27.513	36.640	45.360	1.674	68.1	-2.63	0.086	9.48	1.125	1191.5
1400	3.026	34.603	1.69	2.926	27.575	36.728	45.473	1.800	84.9	-2.38	0.081	8.61	1.072	1389.3
1600	2.596	34.619	2.00	2.484	27.627	36.804	45.571	1.916	102.6	-1.98	0.087	7.53	1.003	1586.9
1800	2.297	34.634	2.21	2.173	27.665	36.858	45.641	2.023	121.1	-1.11	0.060	4.47	0.773	1784.2
2000	2.097	34.646	2.38	1.959	27.692	36.897	45.691	2.124	140.8	-0.86	0.050	3.58	0.691	1981.4
2200	1.957	34.656	2.54	1.804	27.711	36.925	45.726	2.222	161.6	-0.64	0.043	2.83	0.615	2178.4
2400	1.875	34.663	2.63	1.706	27.724	36.943	45.750	2.317	183.8	-0.44	0.025	1.90	0.503	2375.3
2600	1.806	34.668	2.71	1.621	27.735	36.958	45.769	2.410	207.7	-0.40	0.022	1.77	0.486	2571.9
2800	1.749	34.672	2.77	1.546	27.743	36.971	45.786	2.503	233.3	-0.47	0.022	2.04	0.522	2768.4
3000	1.660	34.676	2.92	1.440	27.754	36.988	45.808	2.595	260.4	-0.48	0.020	2.08	0.526	2964.6
3200	1.586	34.679	3.09	1.348	27.764	37.002	45.828	2.685	288.8	-0.40	0.015	1.73	0.481	3160.8
3400	1.526	34.682	3.22	1.270	27.772	37.015	45.844	2.773	318.7	-0.48	0.016	2.10	0.529	3356.7
3600	1.452	34.686	3.44	1.177	27.781	37.029	45.863	2.861	349.9	-0.51	0.025	2.42	0.568	3552.4
3800	1.388	34.691	3.70	1.094	27.791	37.044	45.882	2.946	382.2	-0.22	0.012	1.10	0.383	3748.0
4000	1.374	34.693	3.81	1.059	27.794	37.049	45.889	3.032	416.1	-0.16	0.005	0.77	0.320	3943.4
4200	1.378	34.694	3.85	1.040	27.796	37.052	45.894	3.117	451.9	-0.08	0.004	0.40	0.230	4138.6
4400	1.390	34.694	3.89	1.030	27.798	37.054	45.896	3.204	490.0	-0.05	0.003	0.27	0.191	4333.7
4600	1.404	34.695	3.92	1.020	27.799	37.056	45.898	3.292	530.5	-0.04	0.003	0.24	0.179	4528.6
4800	1.421	34.695	3.94	1.013	27.800	37.057	45.900	3.382	573.4	-0.04	0.003	0.22	0.171	4723.3
4991	1.438	34.696	3.96	1.007	27.801	37.058	45.901	3.469	616.8	-0.02	0.004	0.22	0.000	4909.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL PSS78	SALNTY PSS78	OXYGEN ML/L	SILCAT UMOL/L	PHSPHT UMOL/L	NITRAT UMOL/L	NITRIT UMOL/L	CFC-11 PM/KG	CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	26.448	26.447	22.767	31.042	38.964	34.830	34.830	4.92	1.83	0.35	0.87	0.03	1.725	0.930	6	222222222
23	47.1	26.426	26.415	22.777	31.053	38.975	34.830	34.830	4.93	1.83	0.35	0.87	0.03	1.720	0.925	46	222222222
22	96.4	19.843	19.825	24.379	32.841	40.939	34.437	34.455	4.23	3.65	0.65	3.68	0.62	2.027	1.014	95	222222222
21	121.3	15.545	15.526	25.381	33.986	42.217	34.383	34.417	3.70	7.31	0.94	10.10	0.10	1.988	1.011	120	222222222
20	139.3	13.049	13.030	25.828	34.527	42.846	34.278	34.268	2.51	16.75	1.68	20.38	0.02	1.418	0.720	138	222222222
19	196.4	11.485	11.460	26.448	35.203	43.575	34.687	34.687	0.20	30.86	2.67	33.00	0.00	0.120	0.080	195	222222222
18	246.1	10.590	10.560	26.608	35.400	43.806	34.684	34.683	0.19	34.21	2.74	34.50	0.00	0.035		244	222222225
17	296.6	9.867	9.833	26.702	35.525	43.960	34.643	34.645	0.10	38.67	2.83	34.40	0.00	0.011		294	222222225
16	397.8	8.406	8.365	26.879	35.767	44.263	34.567	34.564	0.16	49.63	3.04	37.70	0.00	0.007	0.013	395	222222222
15	497.1	7.362	7.314	27.008	35.945	44.486	34.534	34.532	0.49	58.26	3.05	40.00	0.00	0.003		493	222222225
14	595.9	6.357	6.302	27.126	36.110	44.697	34.509	34.504	0.44	70.54	3.16	42.20	0.00	0.002	0.012	591	222222222
13	696.2	5.546	5.486	27.232	36.256	44.880	34.514	34.511	0.51	83.23	3.27	44.20	0.00	0.007		691	222222225
12	798.4	5.043	4.977	27.315	36.364	45.010	34.542	34.539	0.59	90.13	3.32	45.40	0.00			792	222222255
11	995.6	4.231	4.154	27.423	36.512	45.198	34.563	34.561	1.10	104.24	3.23	44.40	0.00			987	222222255
10	1396.7	3.081	2.981	27.567	36.718	45.460	34.600	34.598	1.62	130.12	3.12	43.20	0.00	0.012		1384	222222225
9	1798.3	2.315	2.191	27.662	36.855	45.637	34.633	34.632	2.17	147.28	2.98	41.60	0.00	0.009	0.010	1780	222222222
8	2198.8	1.962	1.809	27.711	36.924	45.726	34.656	34.656	2.53	155.29	2.87	40.50	0.00			2174	222222255
7	2604.7	1.811	1.625	27.735	36.958	45.769	34.668	34.667	2.69	158.75	2.82	39.90	0.00			2574	222222255
6	3001.9	1.663	1.443	27.755	36.988	45.808	34.677	34.675	2.92	161.49	2.76	39.40	0.00	0.005	0.004	2963	222222222
5	3402.0	1.533	1.276	27.770	37.013	45.842	34.681	34.682	3.21	161.49	2.70	38.70	0.00	0.007	0.003	3355	222222222
4	3804.2	1.389	1.094	27.791	37.043	45.882	34.691	34.691	3.67	149.31	2.58	37.20	0.00			3749	222222255
3	4205.8	1.378	1.040	27.796	37.052	45.893	34.693	34.692	3.85	145.86	2.54	36.50	0.00			4141	222222255
2	4605.5	1.404	1.020	27.798	37.055	45.897	34.694	34.695	3.92	144.13	2.52	36.40	0.00	0.002	0.003	4530	222222222
1	4993.3	1.438	1.007	27.799	37.056	45.900	34.694	34.697	3.92	142.81	2.50	36.20	0.00	0.038	0.043	4907	222222222

CRUISE: MW 893 STA: 149 DATE (D/M/Y): 20- 4-89 TIME: 0105 LAT: 9 29.62 N LONG: 137 50.02 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24055E-04 1/S SOUND SPEED= 1503.4 M/S Depth= 4805 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.546	34.834	4.32	26.546	22.739	31.011	38.930	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.546	34.834	4.32	26.546	22.739	31.011	38.931	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.537	34.822	5.03	26.533	22.734	31.007	38.927	0.102	0.1	-3.68	-0.158	24.55	1.810	20.0
30	26.487	34.820	5.03	26.480	22.749	31.023	38.944	0.153	0.2	-3.76	-0.091	26.28	1.873	30.0
40	26.471	34.820	4.92	26.462	22.755	31.029	38.951	0.205	0.4	-0.77	0.045	6.55	0.935	40.0
50	26.467	34.820	4.87	26.456	22.757	31.032	38.953	0.256	0.7	-0.69	0.002	5.16	0.830	50.0
100	18.378	34.632	4.50	18.360	24.902	33.408	41.547	0.465	2.2	-191.19	-10.241	903.19	10.980	99.9
125	13.236	34.278	3.07	13.218	25.790	34.482	42.794	0.529	2.9	-104.35	0.543	538.35	8.477	124.8
150	12.163	34.496	1.33	12.143	26.171	34.901	43.250	0.580	3.6	-2.10	15.701	305.85	6.390	149.7
200	11.353	34.705	0.23	11.328	26.486	35.246	43.622	0.665	5.2	-19.82	-0.012	87.31	3.414	199.5
250	10.434	34.665	0.18	10.405	26.621	35.419	43.832	0.741	6.9	-17.96	-0.806	61.08	2.856	249.2
300	9.622	34.630	0.12	9.588	26.732	35.566	44.011	0.812	8.9	-15.52	-1.002	44.56	2.439	298.9
350	8.931	34.586	0.17	8.893	26.811	35.676	44.150	0.879	11.1	-11.92	-0.227	42.48	2.381	348.6
400	8.237	34.565	0.28	8.195	26.903	35.799	44.303	0.941	13.5	-14.91	-0.772	42.03	2.369	398.3
450	7.590	34.532	0.29	7.545	26.973	35.899	44.431	1.001	16.1	-13.75	-0.545	39.87	2.307	448.0
500	7.024	34.519	0.26	6.976	27.043	35.995	44.552	1.057	18.8	-10.91	-0.323	32.24	2.074	497.7
600	6.163	34.523	0.52	6.110	27.162	36.155	44.750	1.160	24.5	-7.12	0.042	24.60	1.812	596.9
700	5.468	34.533	0.53	5.409	27.257	36.284	44.911	1.253	30.7	-4.83	0.212	19.53	1.615	696.2
800	4.991	34.545	0.58	4.925	27.323	36.374	45.023	1.340	37.4	-5.16	0.095	17.97	1.549	795.3
900	4.510	34.555	0.88	4.439	27.386	36.461	45.133	1.421	44.4	-3.88	0.098	13.84	1.359	894.4
1000	4.108	34.567	1.13	4.031	27.438	36.534	45.226	1.497	51.7	-3.60	0.107	13.09	1.322	993.5
1200	3.515	34.586	1.50	3.427	27.514	36.641	45.362	1.636	67.3	-2.76	0.086	9.87	1.148	1191.5
1400	3.023	34.601	1.75	2.923	27.574	36.728	45.473	1.763	84.1	-2.20	0.084	8.13	1.042	1389.2
1600	2.649	34.618	2.00	2.537	27.622	36.796	45.560	1.880	102.0	-1.66	0.066	6.22	0.911	1586.8
1800	2.351	34.632	2.18	2.226	27.659	36.850	45.630	1.988	120.8	-1.42	0.069	5.59	0.864	1784.2
2000	2.119	34.645	2.35	1.981	27.689	36.893	45.686	2.091	140.7	-0.96	0.057	4.02	0.733	1981.4
2200	1.978	34.655	2.48	1.824	27.709	36.921	45.722	2.189	161.6	-0.66	0.048	2.98	0.631	2178.4
2400	1.892	34.662	2.56	1.723	27.722	36.940	45.746	2.284	184.0	-0.45	0.028	2.01	0.518	2375.2
2600	1.823	34.667	2.65	1.637	27.733	36.955	45.766	2.378	208.0	-0.36	0.019	1.58	0.459	2571.9
2800	1.771	34.670	2.73	1.568	27.740	36.967	45.780	2.472	233.8	-0.45	0.020	1.93	0.507	2768.3
3000	1.699	34.674	2.83	1.478	27.750	36.981	45.800	2.564	261.1	-0.41	0.018	1.80	0.491	2964.6
3200	1.625	34.678	2.97	1.385	27.760	36.997	45.820	2.656	290.0	-0.46	0.018	2.01	0.518	3160.7
3400	1.557	34.681	3.12	1.300	27.769	37.010	45.838	2.746	320.3	-0.44	0.017	1.98	0.514	3356.7
3600	1.492	34.684	3.30	1.216	27.777	37.023	45.855	2.835	352.0	-0.51	0.022	2.39	0.565	3552.4
3800	1.413	34.689	3.54	1.118	27.787	37.039	45.876	2.921	384.8	-0.37	0.018	1.80	0.490	3748.0
4000	1.386	34.692	3.70	1.070	27.794	37.048	45.887	3.007	419.0	-0.20	0.014	1.08	0.379	3943.4
4200	1.382	34.693	3.80	1.045	27.796	37.052	45.893	3.093	454.9	-0.11	0.006	0.57	0.277	4138.6
4400	1.387	34.695	3.85	1.027	27.798	37.055	45.897	3.180	492.9	-0.07	0.002	0.34	0.213	4333.7
4600	1.398	34.695	3.89	1.014	27.800	37.057	45.899	3.268	533.3	-0.05	0.003	0.29	0.195	4528.6
4800	1.415	34.696	3.92	1.008	27.800	37.058	45.901	3.357	576.1	-0.01	0.002	0.29	0.000	4723.3
4871	1.424	34.696	3.91	1.007	27.800	37.058	45.901	3.389	591.9	-0.01	0.002	0.29	0.000	4792.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.1	26.507	26.506	22.745	31.018	38.939	34.825	34.824	5.04	1.83	0.32	0.97	0.03	1.756	0.931	7	222222222
23	47.3	26.500	26.489	22.750	31.023	38.944	34.824	34.822	5.03	1.83	0.32	0.96	0.04	1.783	0.926	47	222222222
22	73.0	26.417	26.400	22.768	31.044	38.967	34.812	34.806	4.98	1.83	0.33	0.87	0.03	1.804	0.938	72	222222222
21	98.6	20.431	20.413	24.366	32.808	40.887	34.623	34.619	4.86	2.03	0.35	0.49	0.11	2.232	1.154	98	222222222
20	121.6	15.862	15.843	25.401	33.994	42.213	34.502	34.458	3.47	7.61	0.97	10.44	0.26	1.953	1.001	120	222222222
19	147.0	12.198	12.179	26.086	34.816	43.164	34.395	34.324	2.23	19.69	1.80	22.67	0.03	1.214	0.609	146	222222222
18	171.2	12.074	12.052	26.313	35.044	43.394	34.656	34.667	0.24	28.52	2.56	31.89	0.01	0.268	0.154	170	222222222
17	196.9	11.330	11.305	26.491	35.252	43.629	34.706	34.711	0.13	31.16	2.60	33.20	0.00	0.127		195	222222225
16	247.4	10.524	10.494	26.604	35.399	43.808	34.664	34.672	0.18	35.02	2.68	33.60	0.00			245	222222255
15	297.2	9.896	9.862	26.698	35.519	43.954	34.644	34.645	0.39	38.77	2.75	34.40	0.00	0.040		295	222222225
14	396.4	8.293	8.252	26.903	35.796	44.297	34.576	34.569	0.27	49.23	2.90	37.90	0.00	0.024		393	222222225
13	496.5	6.983	6.936	27.045	35.999	44.558	34.514	34.517	0.26	64.15	3.11	40.30	0.00	0.013	0.014	493	222222222
12	595.3	6.157	6.104	27.157	36.150	44.746	34.515	34.521	0.53	73.28	3.14	42.40	0.00		0.019	591	222222252
11	698.7	5.465	5.405	27.258	36.285	44.912	34.533	34.531	0.52	83.53	3.23	44.30	0.00	0.008		693	222222225
10	798.6	4.926	4.861	27.332	36.386	45.039	34.547	34.547	0.73	91.45	3.23	44.70	0.00	0.012	0.006	792	222222222
9	996.1	4.077	4.001	27.441	36.539	45.232	34.566	34.567	1.13	108.10	3.18	43.80	0.00			988	222222255
8	1496.8	2.819	2.713	27.598	36.763	45.518	34.608	34.609	1.89	134.79	3.01	41.90	0.00			1483	222222255
7	2000.5	2.116	1.978	27.689	36.893	45.686	34.645	34.645	2.38	151.44	2.89	40.30	0.00	0.086	0.044	1979	222222222
6	2499.9	1.853	1.676	27.728	36.949	45.757	34.665	34.664	2.65	157.32	2.80	39.50	0.00			2471	222222255
5	3003.6	1.700	1.479	27.751	36.982	45.800	34.675	34.674	2.87	161.49	2.75	39.00	0.00	0.006	0.004	2965	222222222
4	3501.7	1.530	1.263	27.772	37.015	45.845	34.682	34.681	3.25	160.27	2.66	37.99	0.01			3453	222222255
3	4003.8	1.383	1.067	27.793	37.048	45.888	34.692	34.693	3.79	148.70	2.53	36.39	0.01	0.003	-0.003	3944	222222222
2	4505.1	1.391	1.019	27.799	37.056	45.898	34.695	34.696	3.90	144.84	2.50	35.99	0.01			4432	222222255
1	4875.2	1.424	1.008	27.800	37.058	45.901	34.695	34.695	3.93	143.52	2.49	35.79	0.01	0.005	-0.005	4793	222222222

CRUISE: MW 893 STA: 150 DATE (D/M/Y): 20- 4-89 TIME: 0936 LAT: 9 29.48 N LONG: 137 0.21 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24049E-04 1/S SOUND SPEED= 1503.4 M/S Depth= 4785 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.207	34.771	3.63	26.207	22.798	31.079	39.007	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.207	34.771	3.63	26.206	22.798	31.079	39.007	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.234	34.759	4.97	26.229	22.781	31.062	38.990	0.101	0.1	-0.04	-0.051	-0.61	-0.286	20.0
30	26.235	34.758	5.00	26.229	22.782	31.062	38.990	0.152	0.2	-0.14	-0.008	0.90	0.348	30.0
40	26.237	34.758	5.02	26.228	22.782	31.063	38.990	0.203	0.4	-0.16	-0.060	0.15	0.143	40.0
50	26.224	34.757	4.93	26.213	22.786	31.067	38.995	0.254	0.6	-2.54	0.031	19.32	1.606	50.0
100	19.352	34.486	5.05	19.334	24.544	33.021	41.133	0.468	2.2	-186.92	-9.637	940.72	11.208	99.9
125	14.233	34.297	3.12	14.215	25.599	34.253	42.530	0.540	3.1	-161.07	-1.111	807.82	10.386	124.8
150	12.702	34.674	0.19	12.682	26.205	34.911	43.238	0.592	3.8	-21.20	9.426	280.84	6.124	149.7
200	11.195	34.698	0.26	11.170	26.510	35.276	43.659	0.676	5.3	-20.90	-0.294	86.39	3.396	199.5
250	10.288	34.660	0.35	10.259	26.643	35.447	43.865	0.751	7.0	-17.06	-0.731	58.29	2.790	249.2
300	9.595	34.650	0.35	9.561	26.753	35.587	44.033	0.820	9.0	-9.59	0.070	40.21	2.317	298.9
350	9.053	34.618	0.48	9.014	26.817	35.675	44.144	0.887	11.1	-11.65	-0.765	31.86	2.063	348.6
400	8.646	34.614	0.51	8.603	26.879	35.755	44.241	0.950	13.6	-8.25	-0.293	26.38	1.877	398.3
450	8.093	34.585	0.49	8.047	26.941	35.843	44.353	1.011	16.2	-13.51	-0.860	34.89	2.158	448.0
500	7.380	34.537	0.45	7.331	27.008	35.943	44.484	1.069	19.0	-10.38	-0.140	35.03	2.163	497.7
600	6.513	34.539	0.20	6.458	27.129	36.105	44.684	1.176	25.0	-10.22	-0.049	34.12	2.135	597.0
700	5.628	34.533	0.42	5.568	27.238	36.257	44.876	1.272	31.4	-6.69	-0.012	21.78	1.705	696.2
800	5.056	34.542	0.61	4.990	27.313	36.361	45.007	1.360	38.1	-6.08	0.125	21.64	1.700	795.3
900	4.546	34.555	0.96	4.474	27.382	36.455	45.126	1.442	45.2	-4.80	0.107	16.88	1.501	894.5
1000	4.145	34.566	1.15	4.068	27.434	36.528	45.218	1.518	52.5	-3.87	0.109	13.80	1.357	993.5
1200	3.473	34.588	1.55	3.386	27.520	36.649	45.372	1.657	68.1	-2.92	0.101	10.63	1.192	1191.5
1400	2.965	34.607	1.82	2.866	27.584	36.740	45.488	1.782	84.7	-2.23	0.076	8.06	1.037	1389.3
1600	2.593	34.622	2.04	2.481	27.629	36.806	45.573	1.896	102.2	-1.75	0.068	6.49	0.931	1586.8
1800	2.286	34.635	2.23	2.162	27.666	36.861	45.644	2.003	120.7	-1.37	0.067	5.41	0.850	1784.2
2000	2.073	34.648	2.40	1.935	27.695	36.901	45.696	2.104	140.2	-0.95	0.057	4.01	0.731	1981.4
2200	1.930	34.659	2.52	1.777	27.716	36.931	45.734	2.200	160.8	-0.59	0.041	2.65	0.594	2178.4
2400	1.857	34.664	2.61	1.688	27.727	36.947	45.754	2.294	182.9	-0.41	0.023	1.76	0.485	2375.2
2600	1.807	34.668	2.69	1.621	27.735	36.958	45.769	2.387	206.7	-0.33	0.017	1.43	0.436	2571.9
2800	1.744	34.672	2.79	1.541	27.744	36.972	45.787	2.480	232.2	-0.45	0.018	1.91	0.505	2768.3
3000	1.670	34.675	2.90	1.449	27.753	36.986	45.806	2.572	259.3	-0.49	0.019	2.10	0.529	2964.6
3200	1.600	34.679	3.05	1.362	27.763	37.001	45.825	2.662	287.8	-0.40	0.015	1.75	0.483	3160.7
3400	1.534	34.682	3.18	1.277	27.771	37.013	45.842	2.751	317.8	-0.45	0.017	2.00	0.517	3356.7
3600	1.467	34.685	3.37	1.192	27.779	37.027	45.860	2.839	349.2	-0.50	0.017	2.23	0.545	3552.4
3800	1.402	34.689	3.60	1.107	27.789	37.041	45.878	2.925	381.8	-0.32	0.017	1.57	0.459	3748.0
4000	1.378	34.692	3.76	1.063	27.794	37.048	45.888	3.011	415.8	-0.12	0.008	0.65	0.295	3943.4
4200	1.383	34.693	3.82	1.045	27.796	37.051	45.892	3.097	451.7	-0.09	0.005	0.47	0.250	4138.6
4400	1.394	34.694	3.87	1.034	27.797	37.053	45.895	3.184	489.9	-0.05	0.003	0.27	0.189	4333.7
4600	1.408	34.695	3.90	1.024	27.799	37.055	45.897	3.272	530.4	-0.05	0.003	0.25	0.183	4528.6
4800	1.421	34.696	3.92	1.014	27.800	37.057	45.900	3.362	573.3	-0.04	0.001	0.25	0.000	4723.3
4861	1.427	34.695	3.93	1.012	27.800	37.057	45.900	3.389	586.9	-0.04	-0.002	0.25	0.000	4782.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.9	26.211	26.209	22.786	31.068	38.996	34.756	34.756	5.09	0.71	0.33	0.38	0.02	1.762	0.915	7	222222222
23	47.7	26.208	26.198	22.788	31.069	38.998	34.754	34.756	4.92	0.91	0.34	0.58	0.02	1.774	0.901	47	222222222
22	97.4	17.514	17.498	24.912	33.450	41.618	34.369	34.418	3.93	4.06	0.81	5.31	0.89	2.062	1.013	96	222222222
21	122.7	12.704	12.687	25.955	34.666	42.997	34.354	34.374	1.58	19.08	2.02	25.08	0.02	1.056	0.516	121	222222222
20	146.6	12.070	12.051	26.296	35.028	43.378	34.635	34.628	0.36	26.69	2.53	32.00	0.00	0.313	0.176	145	222222222
19	197.9	11.255	11.230	26.501	35.265	43.645	34.701	34.699	0.22	30.04	2.61	34.30	0.00	0.096	0.066	196	222222222
18	247.4	10.465	10.436	26.626	35.423	43.834	34.679	34.672	0.28	32.78	2.64	35.20	0.00	0.060		245	222222225
17	297.4	9.758	9.724	26.724	35.551	43.991	34.648	34.643	0.30	36.34	2.73	36.40	0.00	0.033	0.030	295	222222222
16	396.8	8.719	8.677	26.874	35.748	44.230	34.623	34.611	0.65	42.12	2.79	37.80	0.00			394	222222255
15	500.3	7.622	7.573	26.986	35.910	44.441	34.554	34.551	0.52	53.29	2.96	39.40	0.00	0.019	0.023	496	222222222
14	598.5	6.652	6.596	27.112	36.082	44.655	34.541	34.538	0.17	67.40	3.24	42.10	0.00	0.008	0.010	594	222222222
13	698.9	5.637	5.576	27.234	36.253	44.872	34.529	34.531	0.39	80.18	3.30	44.30	0.00			693	222222255
12	797.3	5.130	5.064	27.304	36.348	44.990	34.540	34.538	0.59	87.29	3.30	44.70	0.00	0.003	0.008	791	222222222
11	999.1	4.176	4.099	27.429	36.522	45.210	34.564	34.563	1.10	104.44	3.21	43.80	0.00			991	222222255
10	1397.7	3.019	2.919	27.577	36.731	45.477	34.605	34.604	1.75	129.51	3.08	42.20	0.00	0.003	0.004	1385	222222222
9	1798.2	2.311	2.187	27.664	36.856	45.639	34.634	34.633	2.19	145.86	2.95	41.00	0.00			1780	222222255
8	2200.2	1.944	1.791	27.713	36.927	45.729	34.657	34.657	2.50	154.58	2.91	40.10	0.00	-0.001	-0.005	2176	222222222
7	2601.7	1.811	1.625	27.734	36.958	45.768	34.668	34.666	2.67	158.54	2.84	39.50	0.00			2571	222222255
6	3002.0	1.672	1.451	27.753	36.986	45.806	34.675	34.678	2.91	159.86	2.78	39.00	0.00	0.001	-0.003	2963	222222222
5	3390.6	1.539	1.283	27.770	37.012	45.841	34.681	34.682	3.17	160.57	2.70	38.30	0.00			3344	222222255
4	3803.7	1.401	1.106	27.788	37.040	45.878	34.689	34.689	3.65	151.03	2.57	36.90	0.00	0.001	0.006	3748	222222222
3	4206.3	1.384	1.046	27.795	37.050	45.891	34.692	34.693	3.82	145.96	2.55	35.70	0.00			4141	222222255
2	4605.1	1.408	1.024	27.798	37.055	45.897	34.694	34.694	3.89	143.62	2.51	35.30	0.00	-0.001	-0.003	4530	222222222
1	4863.2	1.427	1.012	27.798	37.056	45.898	34.694	34.695	3.93	142.61	2.51	35.09	0.01	-0.002		4781	222222225

CRUISE: MW 893 STA: 151 DATE (D/M/Y): 20- 4-89 TIME: 1804 LAT: 9 30.11 N LONG: 136 10.17 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24075E-04 1/S SOUND SPEED= 1503.3 M/S Depth= 4775 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.241	34.781	5.13	26.241	22.795	31.075	39.002	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.241	34.781	5.13	26.241	22.795	31.075	39.002	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.244	34.772	4.93	26.240	22.788	31.069	38.996	0.101	0.1	-0.17	-0.016	0.96	0.358	20.0
30	26.241	34.771	4.93	26.234	22.789	31.070	38.997	0.152	0.2	-0.87	-0.050	5.50	0.857	30.0
40	26.239	34.771	4.86	26.230	22.790	31.071	38.999	0.203	0.4	0.15	-0.051	-2.02	-0.519	40.0
50	26.241	34.770	4.95	26.230	22.790	31.071	38.998	0.253	0.6	-0.45	-0.054	2.34	0.559	50.0
100	13.256	34.449	1.23	13.242	25.918	34.606	42.915	0.445	2.0	-127.85	6.939	793.04	10.285	99.9
125	12.260	34.707	0.49	12.244	26.315	35.038	43.381	0.492	2.6	-34.23	2.372	207.58	5.262	124.8
150	11.492	34.702	0.36	11.474	26.457	35.211	43.582	0.534	3.1	-27.63	-1.086	104.31	3.730	149.6
200	10.635	34.688	0.31	10.611	26.603	35.392	43.797	0.610	4.5	-14.97	-0.600	52.79	2.654	199.4
250	10.144	34.694	0.45	10.114	26.694	35.504	43.928	0.682	6.2	-6.97	0.297	34.41	2.142	249.1
300	9.784	34.682	0.33	9.749	26.747	35.572	44.011	0.750	8.1	-6.35	-0.312	20.35	1.647	298.9
350	9.399	34.663	0.29	9.360	26.796	35.639	44.093	0.817	10.3	-9.24	-0.653	25.24	1.835	348.6
400	8.920	34.630	0.37	8.877	26.848	35.712	44.187	0.882	12.8	-10.09	-0.762	25.80	1.855	398.3
450	8.400	34.594	0.51	8.353	26.902	35.790	44.286	0.945	15.5	-11.88	-0.768	31.41	2.047	447.9
500	7.774	34.555	0.44	7.723	26.965	35.882	44.406	1.005	18.4	-11.82	-0.166	40.79	2.333	497.6
600	6.628	34.538	0.20	6.573	27.113	36.084	44.658	1.115	24.6	-9.55	-0.123	31.20	2.040	596.9
700	5.835	34.531	0.32	5.773	27.211	36.220	44.830	1.214	31.1	-7.30	0.011	24.54	1.809	696.1
800	5.161	34.541	0.39	5.094	27.301	36.343	44.985	1.305	38.0	-6.38	0.088	22.21	1.721	795.3
900	4.661	34.552	0.67	4.589	27.366	36.434	45.099	1.388	45.2	-4.06	0.102	14.62	1.396	894.4
1000	4.211	34.563	1.08	4.134	27.425	36.515	45.202	1.465	52.8	-4.47	0.125	16.20	1.470	993.5
1200	3.604	34.583	1.44	3.515	27.503	36.626	45.342	1.607	68.7	-2.82	0.089	10.16	1.164	1191.4
1400	3.081	34.601	1.59	2.980	27.568	36.719	45.461	1.736	85.7	-2.41	0.083	8.79	1.083	1389.2
1600	2.640	34.619	1.83	2.528	27.623	36.797	45.562	1.853	103.7	-1.95	0.097	7.70	1.014	1586.8
1800	2.288	34.635	2.20	2.164	27.666	36.860	45.643	1.961	122.3	-1.53	0.074	6.03	0.896	1784.2
2000	2.074	34.648	2.40	1.936	27.694	36.901	45.696	2.062	141.8	-0.95	0.056	4.00	0.730	1981.4
2200	1.935	34.658	2.50	1.783	27.715	36.929	45.732	2.158	162.5	-0.61	0.045	2.79	0.610	2178.4
2400	1.854	34.665	2.58	1.686	27.728	36.948	45.756	2.252	184.5	-0.36	0.022	1.60	0.461	2375.2
2600	1.818	34.669	2.65	1.632	27.735	36.957	45.768	2.346	208.3	-0.27	0.013	1.14	0.390	2571.8
2800	1.767	34.671	2.74	1.563	27.742	36.968	45.782	2.439	234.0	-0.46	0.016	1.88	0.501	2768.3
3000	1.691	34.675	2.87	1.470	27.751	36.983	45.802	2.531	261.3	-0.49	0.020	2.10	0.529	2964.6
3200	1.613	34.679	3.05	1.374	27.762	36.999	45.823	2.622	290.0	-0.48	0.020	2.12	0.532	3160.7
3400	1.566	34.682	3.19	1.308	27.769	37.010	45.837	2.712	320.2	-0.33	0.013	1.49	0.445	3356.6
3600	1.503	34.685	3.34	1.227	27.777	37.022	45.854	2.801	351.9	-0.40	0.011	1.75	0.483	3552.4
3800	1.437	34.687	3.52	1.141	27.784	37.035	45.871	2.888	385.0	-0.44	0.015	2.01	0.518	3747.9
4000	1.393	34.691	3.71	1.077	27.792	37.045	45.885	2.975	419.4	-0.21	0.013	1.10	0.383	3943.4
4200	1.390	34.692	3.80	1.052	27.795	37.050	45.890	3.061	455.6	-0.09	0.007	0.51	0.262	4138.6
4400	1.396	34.693	3.85	1.036	27.797	37.053	45.894	3.148	493.8	-0.06	0.003	0.32	0.207	4333.6
4600	1.410	34.694	3.89	1.026	27.798	37.054	45.896	3.237	534.4	-0.06	0.004	0.32	0.208	4528.5
4800	1.426	34.695	3.90	1.018	27.799	37.056	45.898	3.327	577.5	-0.03	0.003	0.32	0.000	4723.3
4841	1.429	34.694	3.91	1.016	27.799	37.056	45.898	3.345	586.6	-0.03	0.003	0.32	0.000	4763.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	26.263	26.261	22.779	31.059	38.986	34.769	34.769	4.87	1.22	0.34	0.48	0.02	1.739	0.934	6	222222222
23	47.5	26.226	26.216	22.789	31.070	38.998	34.763	34.770	4.85	1.52	0.36	0.69	0.01	1.742	0.912	47	222222222
22	98.0	12.959	12.945	26.064	34.762	43.081	34.561	34.569	0.54	23.45	2.38	30.48	0.02	0.579	0.297	97	222222222
21	123.4	12.070	12.054	26.358	35.089	43.438	34.715	34.715	0.29	27.51	2.49	33.79	0.01	0.211	0.117	122	222222222
20	147.8	11.388	11.369	26.477	35.235	43.610	34.703	34.700	0.14	29.94	2.61	33.89	0.01	0.120	0.081	146	222222222
19	195.0	10.598	10.575	26.607	35.398	43.804	34.686	34.686	0.20	32.58	2.61	35.00	0.00	0.059	0.039	193	222222222
18	246.8	10.165	10.136	26.694	35.503	43.926	34.699	34.694	0.33	33.90	2.60	36.30	0.00	0.058	0.033	245	222222222
17	297.2	9.798	9.764	26.746	35.571	44.009	34.684	34.683	0.25	35.63	2.66	37.21	-0.01	0.028	0.025	295	222222222
16	396.8	9.015	8.972	26.844	35.704	44.174	34.644	34.640	0.29	41.11	2.80	38.00	0.00			394	222222255
15	496.8	8.003	7.952	26.941	35.848	44.361	34.567	34.564	0.49	50.34	2.88	38.80	0.00	0.010	0.010	493	222222222
14	598.3	6.854	6.798	27.086	36.046	44.610	34.542	34.545	0.19	64.96	3.18	41.50	0.00	0.005		594	222222225
13	697.7	5.927	5.865	27.198	36.203	44.809	34.529	34.529	0.28	77.24	3.25	43.70	0.00	0.005		692	222222225
12	796.9	5.302	5.234	27.282	36.317	44.952	34.538	34.542	0.37	86.78	3.33	45.20	0.00			790	222222255
11	997.3	4.297	4.219	27.413	36.500	45.182	34.560	34.561	1.20	102.21	3.18	43.70	0.00		0.018	989	222222252
10	1397.4	3.137	3.036	27.561	36.708	45.448	34.598	34.597	1.53	129.51	3.12	43.10	0.00			1384	222222255
9	1798.2	2.300	2.176	27.664	36.858	45.641	34.634	34.633	2.17	147.38	2.94	41.00	0.00	0.002	0.003	1780	222222222
8	2200.2	1.947	1.794	27.713	36.927	45.729	34.658	34.657	2.50	155.70	2.87	40.20	0.00			2176	222222255
7	2600.5	1.825	1.639	27.734	36.956	45.766	34.668	34.667	2.60	159.46	2.81	39.59	0.01	0.003	-0.003	2569	222222222
6	3001.9	1.706	1.485	27.750	36.981	45.799	34.675	34.675	2.85	160.78	2.76	39.19	0.01			2963	222222255
5	3403.0	1.563	1.305	27.770	37.011	45.839	34.684	34.682	3.19	158.85	2.67	38.29	0.01	0.002	0.000	3356	222222225
4	3804.4	1.433	1.137	27.784	37.035	45.871	34.687			150.52	2.63	37.49	0.01			3749	255222255
3	4204.2	1.389	1.051	27.794	37.049	45.890	34.692	34.693	3.82	147.18	2.55	36.39	0.01	0.000	0.000	4139	222222255
2	4605.2	1.410	1.026	27.797	37.054	45.896	34.694	34.694	3.88	144.94	2.52	36.19	0.01			4530	222222255
1	4841.4	1.428	1.015	27.798	37.056	45.898	34.694	34.695	3.90	144.03	2.52	36.09	0.01	0.002	0.001	4760	222222222

CRUISE: MW 893 STA: 152 DATE (D/M/Y): 21- 4-89 TIME: 0240 LAT: 9 29.60 N LONG: 135 20.04 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24054E-04 1/S SOUND SPEED= 1504.1 M/S Depth= 4841 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.958	34.565	3.73	25.958	22.720	31.010	38.946	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.958	34.565	3.73	25.958	22.720	31.010	38.946	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	25.962	34.559	4.73	25.958	22.716	31.005	38.941	0.103	0.1	-0.70	0.182	8.32	1.054	20.0
30	25.956	34.561	4.98	25.949	22.720	31.010	38.946	0.154	0.2	-1.08	0.179	11.04	1.214	30.0
40	25.937	34.565	4.92	25.928	22.729	31.020	38.956	0.205	0.4	-3.71	0.754	40.52	2.326	40.0
50	25.884	34.575	4.97	25.872	22.754	31.046	38.984	0.257	0.7	-36.30	1.780	296.13	6.288	50.0
100	13.365	34.625	0.67	13.351	26.032	34.713	43.017	0.421	1.8	-91.88	6.569	583.39	8.825	99.8
125	12.397	34.740	0.45	12.381	26.314	35.032	43.368	0.467	2.4	-27.15	1.669	165.40	4.699	124.7
150	11.950	34.753	0.46	11.931	26.411	35.146	43.499	0.509	3.0	-17.46	-0.046	76.49	3.196	149.6
200	11.063	34.735	0.54	11.038	26.563	35.334	43.721	0.588	4.4	-11.06	-0.177	44.94	2.449	199.4
250	10.549	34.718	0.54	10.519	26.642	35.435	43.842	0.661	6.1	-8.85	-0.318	31.91	2.064	249.1
300	10.134	34.704	0.34	10.099	26.704	35.515	43.939	0.733	8.0	-10.14	-0.369	35.68	2.183	298.8
350	9.700	34.685	0.21	9.660	26.764	35.593	44.035	0.801	10.3	-6.74	-0.295	22.29	1.725	348.6
400	9.303	34.663	0.17	9.258	26.813	35.660	44.118	0.868	12.9	-9.59	-0.464	30.16	2.007	398.2
450	8.879	34.644	0.11	8.830	26.867	35.733	44.209	0.932	15.7	-9.42	-0.515	27.68	1.922	447.9
500	8.327	34.608	0.16	8.274	26.925	35.816	44.316	0.995	18.7	-12.58	-0.790	33.73	2.122	497.6
600	7.106	34.550	0.26	7.048	27.058	36.006	44.559	1.110	25.1	-10.69	-0.331	32.18	2.073	596.9
700	6.081	34.528	0.41	6.018	27.178	36.175	44.774	1.214	32.0	-9.24	-0.006	31.33	2.045	696.1
800	5.416	34.539	0.46	5.348	27.269	36.299	44.929	1.307	39.2	-6.08	0.066	21.06	1.677	795.3
900	4.874	34.548	0.77	4.801	27.340	36.397	45.052	1.394	46.6	-4.21	0.084	14.95	1.413	894.4
1000	4.484	34.555	0.89	4.405	27.390	36.467	45.140	1.475	54.5	-3.82	0.085	13.49	1.342	993.5
1200	3.804	34.576	1.31	3.713	27.478	36.591	45.297	1.623	71.1	-3.15	0.099	11.54	1.241	1191.5
1400	3.245	34.595	1.57	3.143	27.549	36.691	45.425	1.758	88.9	-2.64	0.089	9.68	1.137	1389.2
1600	2.769	34.613	1.85	2.655	27.607	36.775	45.533	1.880	107.6	-2.20	0.104	8.62	1.073	1586.8
1800	2.369	34.632	2.00	2.244	27.657	36.847	45.626	1.991	126.8	-1.99	0.083	7.63	1.009	1784.2
2000	2.081	34.646	2.27	1.943	27.693	36.899	45.693	2.093	146.6	-1.12	0.063	4.64	0.787	1981.4
2200	1.923	34.657	2.49	1.771	27.715	36.930	45.734	2.189	167.2	-0.59	0.047	2.75	0.606	2178.4
2400	1.846	34.665	2.58	1.677	27.728	36.948	45.757	2.283	189.2	-0.44	0.025	1.90	0.504	2375.2
2600	1.778	34.669	2.68	1.593	27.737	36.962	45.775	2.376	212.9	-0.46	0.020	1.91	0.505	2571.9
2800	1.708	34.673	2.77	1.506	27.747	36.977	45.794	2.467	238.1	-0.42	0.021	1.85	0.497	2768.3
3000	1.641	34.677	2.91	1.421	27.756	36.991	45.812	2.558	264.9	-0.46	0.016	1.96	0.511	2964.6
3200	1.569	34.679	3.04	1.331	27.765	37.005	45.831	2.647	293.2	-0.38	0.015	1.68	0.473	3160.7
3400	1.526	34.683	3.19	1.270	27.772	37.015	45.844	2.736	323.0	-0.40	0.019	1.85	0.497	3356.6
3600	1.466	34.686	3.38	1.190	27.781	37.028	45.861	2.823	354.2	-0.39	0.025	1.95	0.510	3552.4
3800	1.424	34.690	3.57	1.129	27.787	37.038	45.875	2.910	386.8	-0.26	0.010	1.22	0.404	3748.0
4000	1.404	34.691	3.68	1.088	27.791	37.044	45.883	2.996	421.1	-0.19	0.008	0.93	0.352	3943.4
4200	1.395	34.693	3.77	1.057	27.795	37.049	45.890	3.083	457.3	-0.10	0.004	0.49	0.255	4138.6
4400	1.403	34.693	3.81	1.043	27.796	37.052	45.893	3.170	495.7	-0.07	0.005	0.39	0.227	4333.7
4600	1.418	34.694	3.84	1.034	27.797	37.053	45.895	3.259	536.4	-0.03	0.004	0.22	0.170	4528.6
4800	1.438	34.695	3.87	1.030	27.798	37.054	45.896	3.349	579.6	-0.01	0.001	0.07	0.098	4723.3
4915	1.452	34.695	3.87	1.030	27.798	37.055	45.896	3.402	605.7	0.00	0.003	0.07	0.000	4835.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.7	25.934	25.932	22.723	31.013	38.950	34.557	34.560	4.97	1.01	0.30	0.20	0.00	1.793	0.954	6	222222222
23	47.8	23.701	23.691	23.573	31.919	39.908	34.787	34.574	4.88	1.22	0.34	0.39	0.01	1.824	0.964	47	222222222
22	97.1	12.819	12.806	26.211	34.912	43.233	34.714	34.680	0.60	24.06	2.32	31.95	0.15	0.393	0.206	96	222222222
21	120.9	12.217	12.201	26.357	35.082	43.425	34.751	34.744	0.35	26.39	2.40	34.28	0.02	0.223	0.133	120	222222222
20	146.7	11.831	11.812	26.432	35.171	43.529	34.751	34.748	0.35	27.41	2.44	34.60	0.00	0.165		145	222222225
19	171.7	11.324	11.302	26.519	35.280	43.656	34.741	34.744	0.46	28.83	2.43	34.70	0.00	0.126	0.081	170	222222222
18	196.9	10.938	10.914	26.584	35.360	43.752	34.734	34.732	0.45	30.04	2.45	35.20	0.00	0.096		195	222222225
17	247.3	10.482	10.453	26.660	35.455	43.865	34.726	34.716	0.54	31.77	2.49	35.70	0.00	0.074		245	222222225
16	297.9	10.094	10.059	26.712	35.524	43.950	34.705	34.703	0.29	34.21	2.62	37.20	0.00	0.037	0.032	296	222222222
15	397.9	9.220	9.176	26.822	35.673	44.134	34.657	34.658	0.19	41.01	2.84	38.50	0.00	0.008	0.012	395	222222222
14	496.5	8.178	8.127	26.937	35.835	44.341	34.595	34.602	0.16	50.65	3.02	39.30	0.00	-0.002	0.011	493	222222222
13	597.7	7.066	7.009	27.060	36.010	44.565	34.546	34.547	0.28	62.42	3.12	41.60	0.00	0.002	0.010	593	222222222
12	697.2	6.078	6.016	27.181	36.178	44.777	34.532	34.525	0.41	74.91	3.21	43.70	0.00	0.004	0.015	692	222222222
11	798.1	5.410	5.342	27.268	36.298	44.928	34.537	34.537	0.51	83.53	3.28	45.11	-0.01	0.002	0.010	792	222222222
10	997.8	4.494	4.414	27.388	36.465	45.138	34.555	34.563	0.89	99.77	3.23	45.21	-0.01	0.009	-0.001	989	222222222
9	1246.8	3.681	3.587	27.493	36.612	45.325	34.579	34.578	1.39	116.22	3.15	43.81	-0.01	0.003	0.006	1236	222222222
8	1496.2	3.015	2.907	27.577	36.731	45.477	34.603	34.600	1.74	130.93	3.04	42.80	0.00	0.008	0.002	1482	222222222
7	1999.8	2.095	1.957	27.690	36.895	45.689	34.644	34.646	2.27	153.87	2.90	41.40	0.00	0.005	-0.005	1979	222222222
6	2501.0	1.817	1.640	27.732	36.955	45.765	34.667	34.667	2.64	158.95	2.79	40.30	0.00	-0.001	-0.005	2472	222222222
5	3000.7	1.639	1.419	27.756	36.990	45.812	34.676	34.676	2.94	162.20	2.72	39.40	0.00		0.001	2962	222222252
4	3503.3	1.489	1.223	27.777	37.023	45.854	34.685	34.683	3.32	159.56	2.63	38.50	0.00	0.003	0.001	3454	222222222
3	4004.9	1.402	1.086	27.792	37.045	45.884	34.692	34.689	3.72	150.12	2.53	37.20	0.00	0.000	-0.003	3945	222222252
2	4506.3	1.411	1.038	27.797	37.052	45.894	34.694	34.694	3.84	146.06	2.50	36.70	0.00	-0.003	0.006	4433	222222222
1	4917.6	1.452	1.030	27.798	37.055	45.897	34.695	34.693	3.87	145.45	2.50	36.70	0.00	0.000		4834	222222255

CRUISE: MW 893 STA: 153 DATE (D/M/Y): 21- 4-89 TIME: 1128 LAT: 9 29.77 N LONG: 134 30.14 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24061E-04 1/S SOUND SPEED= 1503.4 M/S Depth= 4780 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.977	34.526	5.15	25.977	22.685	30.974	38.910	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.977	34.526	5.15	25.976	22.685	30.974	38.910	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	26.000	34.516	5.10	25.995	22.672	30.961	38.897	0.103	0.1	0.33	-0.058	-3.42	-0.675	20.0
30	26.003	34.515	5.09	25.996	22.671	30.960	38.896	0.155	0.2	-0.03	-0.016	-0.06	-0.092	30.0
40	26.006	34.515	5.06	25.997	22.670	30.959	38.895	0.207	0.4	-71.54	-1.282	497.11	8.145	40.0
50	17.118	34.525	3.25	17.110	25.125	33.673	41.852	0.252	0.6	-879.70	4.816	5252.38	26.476	50.0
100	12.393	34.757	0.49	12.380	26.328	35.045	43.381	0.350	1.4	-23.57	0.632	120.54	4.011	99.8
125	11.910	34.765	0.46	11.893	26.428	35.164	43.518	0.391	1.8	-13.66	0.083	62.51	2.888	124.7
150	11.565	34.759	0.53	11.546	26.488	35.239	43.606	0.431	2.4	-10.94	-0.480	40.79	2.333	149.5
200	10.930	34.729	0.50	10.906	26.582	35.359	43.751	0.508	3.8	-11.19	-0.395	41.22	2.345	199.3
250	10.471	34.716	0.36	10.441	26.654	35.451	43.861	0.581	5.4	-9.10	-0.443	30.47	2.016	249.0
300	10.097	34.702	0.30	10.062	26.709	35.521	43.947	0.652	7.4	-7.55	-0.270	26.55	1.882	298.8
350	9.730	34.687	0.29	9.690	26.760	35.589	44.029	0.720	9.7	-7.33	-0.297	24.67	1.814	348.5
400	9.285	34.656	0.18	9.240	26.810	35.658	44.118	0.787	12.2	-11.22	-0.834	29.87	1.997	398.2
450	8.751	34.628	0.24	8.702	26.874	35.747	44.228	0.851	15.0	-11.07	-0.387	36.26	2.200	447.8
500	8.105	34.595	0.21	8.053	26.948	35.850	44.359	0.913	18.0	-13.78	-0.648	40.24	2.317	497.5
600	6.940	34.553	0.24	6.883	27.083	36.039	44.599	1.025	24.3	-10.42	-0.321	31.21	2.041	596.8
700	6.082	34.546	0.43	6.019	27.192	36.189	44.788	1.127	31.1	-7.81	0.019	26.86	1.893	696.0
800	5.433	34.548	0.61	5.365	27.274	36.303	44.932	1.220	38.1	-5.58	0.072	19.59	1.617	795.2
900	4.958	34.552	0.81	4.884	27.334	36.387	45.038	1.306	45.6	-4.98	-0.022	15.49	1.438	894.3
1000	4.491	34.558	1.08	4.411	27.391	36.468	45.141	1.388	53.5	-4.36	0.103	15.68	1.446	993.4
1200	3.798	34.576	1.35	3.707	27.479	36.592	45.299	1.536	70.2	-3.14	0.100	11.51	1.239	1191.4
1400	3.263	34.593	1.66	3.160	27.545	36.686	45.420	1.671	88.0	-2.61	0.088	9.57	1.130	1389.1
1600	2.789	34.612	1.79	2.675	27.605	36.772	45.529	1.793	106.7	-2.24	0.089	8.45	1.062	1586.7
1800	2.418	34.631	1.95	2.292	27.652	36.840	45.616	1.905	126.0	-1.58	0.082	6.38	0.923	1784.1
2000	2.145	34.644	2.22	2.007	27.686	36.888	45.680	2.009	146.1	-1.27	0.065	5.17	0.831	1981.3
2200	1.982	34.655	2.40	1.828	27.709	36.921	45.722	2.107	167.2	-0.73	0.050	3.26	0.660	2178.3
2400	1.869	34.663	2.55	1.700	27.725	36.944	45.751	2.202	189.5	-0.53	0.029	2.28	0.551	2375.1
2600	1.814	34.668	2.63	1.628	27.734	36.957	45.768	2.296	213.4	-0.44	0.019	1.83	0.494	2571.8
2800	1.742	34.671	2.74	1.539	27.743	36.971	45.787	2.388	238.9	-0.47	0.021	2.03	0.520	2768.2
3000	1.663	34.676	2.91	1.443	27.754	36.987	45.808	2.480	266.0	-0.49	0.014	2.01	0.518	2964.5
3200	1.584	34.678	3.03	1.346	27.763	37.002	45.827	2.570	294.4	-0.35	0.012	1.52	0.450	3160.6
3400	1.535	34.681	3.16	1.278	27.770	37.012	45.841	2.659	324.4	-0.33	0.016	1.53	0.452	3356.6
3600	1.463	34.685	3.37	1.187	27.779	37.027	45.861	2.747	355.9	-0.43	0.020	2.03	0.520	3552.3
3800	1.417	34.689	3.57	1.122	27.787	37.038	45.875	2.834	388.6	-0.29	0.018	1.49	0.445	3747.9
4000	1.398	34.691	3.70	1.082	27.792	37.045	45.884	2.920	422.9	-0.19	0.012	1.01	0.368	3943.3
4200	1.398	34.693	3.78	1.060	27.794	37.049	45.889	3.007	459.1	-0.05	0.003	0.28	0.192	4138.5
4400	1.412	34.693	3.81	1.052	27.795	37.051	45.891	3.094	497.6	-0.03	0.001	0.14	0.135	4333.6
4600	1.430	34.693	3.82	1.045	27.796	37.051	45.892	3.183	538.5	-0.03	0.002	0.14	0.137	4528.5
4800	1.452	34.694	3.83	1.043	27.796	37.052	45.893	3.274	581.9	-0.01	0.003	0.14	0.000	4723.2
4837	1.456	34.694	3.83	1.043	27.796	37.052	45.893	3.291	590.3	-0.01	0.003	0.14	0.000	4759.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.5	25.992	25.990	22.662	30.952	38.887	34.501	34.501	4.84	1.73	0.27	0.20	0.00	1.766	0.912	7	222222222
23	45.3	15.306	15.299	25.579	34.190	42.426	34.575	34.578	0.84	19.08	2.13	27.68	0.32	0.718	0.362	45	222222222
22	96.2	12.304	12.291	26.333	35.054	43.394	34.742	34.766	0.27	26.90	2.38	34.68	0.02	0.201	0.127	95	222222222
21	123.2	11.687	11.671	26.470	35.215	43.578	34.766	34.763	0.44	28.01	2.37	34.60	0.00	0.172		122	222222225
20	145.4	11.381	11.363	26.512	35.270	43.644	34.746	34.752	0.47	29.20	2.38	34.71	-0.01	0.137	0.089	144	222222222
19	196.8	10.735	10.711	26.615	35.399	43.799	34.726	34.723	0.43	31.77	2.49	35.91	-0.01	0.079		195	222222225
18	247.4	10.300	10.271	26.679	35.482	43.899	34.709	34.706	0.30	33.70	2.53	36.71	-0.01	0.045		245	222222225
17	298.2	9.867	9.833	26.734	35.556	43.991	34.684	34.690	0.13	36.54	2.65	37.60	0.00	0.019		296	222222225
16	396.6	8.968	8.925	26.846	35.708	44.181	34.637	34.634	0.24	42.93	2.79	38.70	0.00	0.005	0.007	393	222222222
15	496.5	7.689	7.640	26.995	35.916	44.443	34.577	34.575	0.44	55.32	3.03	40.30	0.00	0.001		493	222222225
13	698.5	5.881	5.819	27.213	36.220	44.828	34.541	34.548	0.47	74.50	3.17	44.90	0.00	0.001		693	222222225
12	796.2	5.333	5.265	27.283	36.318	44.951	34.545	34.545	0.63	83.33	3.20	45.10	0.00	0.000		790	222222255
11	997.2	4.494	4.415	27.392	36.469	45.142	34.560	34.555	1.11	98.76	3.13	44.30	0.00	-0.001	0.002	989	222222222
10	1399.4	3.306	3.203	27.539	36.678	45.410	34.590	34.590	1.62	124.95	3.01	43.20	0.00	0.002	0.015	1386	222222222
9	1798.7	2.463	2.337	27.646	36.831	45.605	34.628	34.627	1.95	146.36	2.94	42.50	0.00	0.002	0.006	1780	222222222
8	2201.6	2.004	1.850	27.707	36.918	45.718	34.655	34.653	2.38	156.92	2.84	41.20	0.00			2177	222222255
7	2602.1	1.827	1.641	27.733	36.955	45.765	34.667	34.667	2.59	160.67	2.79	40.40	0.00	-0.001	0.004	2571	222222222
6	3001.7	1.674	1.453	27.753	36.986	45.805	34.675	34.675	2.90	162.20	2.71	39.70	0.00			2963	222222255
5	3404.0	1.539	1.282	27.770	37.012	45.841	34.681	34.680	3.28	162.91	2.66	38.90	0.00		0.000	3357	222222255
4	3804.4	1.417	1.122	27.787	37.038	45.875	34.688	34.690	3.60	154.69	2.57	37.60	0.00			3749	222222255
3	4204.1	1.399	1.061	27.793	37.048	45.888	34.691	34.692	3.77	148.70	2.53	37.00	0.00	0.000	-0.003	4139	222222252
2	4606.6	1.430	1.045	27.796	37.051	45.892	34.693	34.694	3.84	147.68	2.48	36.90	0.00	-0.003	-0.003	4531	222222222
1	4839.6	1.456	1.043	27.795	37.051	45.892	34.693	34.694	3.82	147.18	2.50	36.90	0.00	-0.001	0.009	4758	222222222

CRUISE: MW 893 STA: 154 DATE (D/M/Y): 21- 4-89 TIME: 2016 LAT: 9 30.11 N LONG: 133 39.99 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24075E-04 1/S SOUND SPEED= 1503.7 M/S Depth= 4831 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB. 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.994	34.498	4.47	25.994	22.658	30.948	38.884	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.994	34.498	4.47	25.994	22.659	30.948	38.884	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	25.961	34.491	4.91	25.957	22.664	30.955	38.892	0.104	0.1	-2.59	-0.105	17.08	1.510	20.0
30	25.945	34.490	4.84	25.938	22.670	30.961	38.898	0.156	0.2	-1.44	-0.091	8.96	1.093	30.0
40	24.640	34.535	4.27	24.631	23.103	31.428	39.396	0.207	0.4	-1216.88	-12.356	7704.78	32.057	40.0
50	15.195	34.431	1.46	15.187	25.493	34.110	42.352	0.239	0.6	-159.17	22.839	1246.11	12.892	50.0
100	12.351	34.750	0.45	12.337	26.330	35.049	43.387	0.336	1.3	-21.49	0.609	110.71	3.843	99.8
125	11.946	34.756	0.39	11.930	26.414	35.149	43.502	0.378	1.8	-15.58	-0.067	70.83	3.074	124.6
150	11.625	34.755	0.51	11.606	26.474	35.222	43.587	0.418	2.3	-12.08	-0.322	48.49	2.543	149.5
200	11.000	34.737	0.42	10.976	26.575	35.349	43.739	0.496	3.7	-12.00	-0.392	45.03	2.451	199.3
250	10.496	34.719	0.40	10.466	26.652	35.447	43.857	0.569	5.4	-10.48	-0.376	37.65	2.241	249.0
300	10.042	34.699	0.20	10.007	26.716	35.531	43.959	0.639	7.4	-8.55	-0.440	27.52	1.916	298.7
350	9.579	34.667	0.17	9.540	26.770	35.605	44.051	0.708	9.6	-10.93	-0.642	32.82	2.092	348.5
400	9.074	34.644	0.13	9.030	26.835	35.693	44.161	0.773	12.2	-12.13	-0.748	34.42	2.143	398.2
450	8.436	34.604	0.14	8.388	26.905	35.791	44.286	0.836	14.9	-11.12	-0.530	33.01	2.098	447.8
500	7.792	34.580	0.14	7.742	26.983	35.898	44.421	0.896	17.8	-14.73	-0.635	42.89	2.392	497.5
600	6.597	34.539	0.31	6.541	27.118	36.090	44.666	1.005	23.9	-9.59	-0.160	30.56	2.019	596.8
700	5.857	34.536	0.39	5.796	27.212	36.220	44.829	1.103	30.4	-6.40	0.048	22.23	1.722	696.0
800	5.284	34.546	0.70	5.217	27.290	36.327	44.962	1.194	37.3	-4.87	0.111	17.99	1.549	795.2
900	4.823	34.557	0.84	4.750	27.352	36.412	45.069	1.279	44.7	-4.92	0.077	17.09	1.510	894.3
1000	4.409	34.564	1.06	4.330	27.404	36.485	45.162	1.358	52.4	-3.35	0.081	12.01	1.266	993.4
1200	3.750	34.581	1.37	3.660	27.488	36.603	45.312	1.505	68.8	-2.85	0.077	10.18	1.165	1191.3
1400	3.261	34.596	1.63	3.158	27.548	36.689	45.423	1.639	86.5	-2.36	0.072	8.56	1.069	1389.1
1600	2.871	34.609	1.86	2.756	27.595	36.757	45.511	1.762	105.4	-1.84	0.063	6.82	0.954	1586.7
1800	2.520	34.625	1.94	2.393	27.639	36.821	45.592	1.877	125.3	-1.81	0.086	7.20	0.980	1784.1
2000	2.219	34.640	2.15	2.080	27.677	36.876	45.663	1.983	145.9	-1.38	0.076	5.75	0.875	1981.3
2200	2.011	34.654	2.36	1.857	27.706	36.916	45.715	2.083	167.2	-0.83	0.053	3.65	0.698	2178.3
2400	1.899	34.662	2.48	1.729	27.722	36.940	45.745	2.179	189.7	-0.47	0.031	2.12	0.531	2375.1
2600	1.832	34.667	2.58	1.646	27.732	36.954	45.764	2.273	213.7	-0.43	0.020	1.83	0.493	2571.8
2800	1.776	34.670	2.69	1.572	27.740	36.967	45.780	2.367	239.5	-0.35	0.015	1.51	0.449	2768.2
3000	1.697	34.674	2.82	1.476	27.750	36.982	45.800	2.459	266.9	-0.54	0.022	2.36	0.562	2964.5
3200	1.622	34.678	2.96	1.383	27.760	36.997	45.820	2.551	295.8	-0.49	0.015	2.07	0.526	3160.6
3400	1.550	34.681	3.11	1.293	27.769	37.010	45.839	2.641	326.0	-0.36	0.020	1.72	0.480	3356.5
3600	1.479	34.685	3.33	1.203	27.778	37.025	45.858	2.729	357.6	-0.50	0.014	2.20	0.542	3552.3
3800	1.426	34.689	3.56	1.130	27.787	37.037	45.874	2.816	390.4	-0.31	0.016	1.53	0.452	3747.9
4000	1.403	34.691	3.67	1.086	27.791	37.045	45.884	2.902	424.8	-0.18	0.008	0.87	0.341	3943.3
4200	1.401	34.693	3.74	1.062	27.794	37.049	45.889	2.989	461.0	-0.08	0.004	0.40	0.231	4138.5
4400	1.415	34.693	3.78	1.054	27.795	37.050	45.891	3.077	499.5	-0.03	0.002	0.18	0.153	4333.6
4600	1.433	34.693	3.79	1.049	27.796	37.051	45.892	3.166	540.4	-0.03	0.002	0.17	0.151	4528.5
4800	1.453	34.694	3.82	1.044	27.796	37.052	45.893	3.257	584.0	-0.01	0.002	0.17	0.000	4723.2
4895	1.464	34.694	3.81	1.044	27.797	37.052	45.893	3.300	605.6	-0.01	0.001	0.17	0.000	4815.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	26.025	26.024	22.644	30.933	38.868	34.491	34.496	4.81	2.44	0.26	0.30	0.00	1.772	0.950	6	222222222
23	46.7	14.025	14.018	25.891	34.548	42.828	34.621	34.639	0.62	22.33	2.20	30.10	0.40	0.533	0.269	46	222222222
22	98.2	12.028	12.015	26.394	35.126	43.476	34.752	34.749	0.32	28.01	2.37	34.60	0.00	0.191	0.111	97	222222222
21	121.1	11.668	11.653	26.461	35.207	43.570	34.749	34.747	0.52	28.62	2.33	34.30	0.00	0.190		120	222222225
20	148.6	11.342	11.323	26.516	35.275	43.652	34.742	34.741	0.55	29.64	2.36	34.51	-0.01	0.152	0.100	147	222222222
19	198.1	10.761	10.737	26.612	35.395	43.794	34.728	34.729	0.26	32.18	2.49	36.31	-0.01	0.066		196	222222225
18	246.3	10.347	10.318	26.673	35.475	43.890	34.713	34.712	0.26	34.10	2.54	36.41	-0.01	0.053		244	222222225
17	296.0	9.926	9.892	26.732	35.552	43.984	34.695	34.697	0.11	37.15	2.67	37.21	-0.01	0.022		294	222222225
16	397.1	8.973	8.930	26.846	35.708	44.180	34.637	34.635	0.10	44.76	2.85	38.31	-0.01	0.003		394	222222225
15	495.2	7.804	7.754	26.981	35.896	44.418	34.581	34.579	0.11	55.93	3.05	39.81	-0.01	0.001		491	222222225
13	698.3	5.846	5.784	27.213	36.222	44.831	34.536	34.538	0.37	78.05	3.20	44.61	-0.01	0.000		693	222222255
12	800.4	5.326	5.258	27.283	36.318	44.951	34.543	34.544	0.68	84.14	3.19	44.90	0.00	0.000		794	222222255
11	997.8	4.498	4.418	27.393	36.469	45.142	34.562	34.560	0.99	99.06	3.18	44.70	0.00			989	222222255
10	1398.7	3.279	3.176	27.547	36.687	45.420	34.597	34.595	1.72	125.56	3.05	43.10	0.00	0.027	0.022	1386	222222222
9	1799.0	2.496	2.369	27.642	36.825	45.598	34.626	34.625	1.97	144.74	3.01	42.20	0.00			1781	222222255
8	2202.5	2.008	1.854	27.706	36.917	45.716	34.655	34.653	2.37	156.21	2.82	41.00	0.00	0.012	0.006	2178	222222222
7	2600.2	1.834	1.648	27.732	36.954	45.764	34.667	34.667	2.60	160.57	2.80	40.20	0.00			2569	222222255
6	3000.7	1.708	1.487	27.749	36.980	45.798	34.674	34.674	2.77	161.89	2.73	39.70	0.00	0.001		2962	222222225
5	3401.0	1.555	1.298	27.768	37.010	45.838	34.681	34.680	3.13	163.11	2.67	39.10	0.00			3354	222222255
4	3806.1	1.428	1.132	27.787	37.038	45.874	34.690	34.691	3.59	152.96	2.55	37.60	0.00	-0.001	0.004	3750	222222222
3	4203.7	1.401	1.063	27.794	37.048	45.888	34.692	34.692	3.77	149.21	2.52	37.10	0.00			4139	222222255
2	4605.3	1.434	1.049	27.795	37.050	45.891	34.692	34.693	3.79	147.68	2.50	36.80	0.00			4530	222222255
1	4897.0	1.464	1.044	27.796	37.052	45.893	34.694	34.696	3.81	147.99	2.52	36.90	0.00	0.000		4814	222222255

CRUISE: MW 893 STA: 155 DATE (D/M/Y): 22- 4-89 TIME: 0512 LAT: 9 29.98 N LONG: 132 50.05 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1504.7 M/S Depth= 4955 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	25.954	34.515	4.59	25.954	22.684	30.974	38.911	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	25.954	34.515	4.59	25.954	22.684	30.974	38.911	0.005	0.0	-0.44	0.000	0.00	0.000	1.0
20	25.971	34.511	5.04	25.966	22.677	30.967	38.904	0.103	0.1	0.05	-0.006	-0.49	-0.255	20.0
30	25.971	34.511	4.96	25.964	22.678	30.968	38.904	0.155	0.2	-1.69	-0.371	5.81	0.880	30.0
40	25.950	34.507	4.99	25.941	22.682	30.972	38.909	0.207	0.4	-1.87	-0.168	10.69	1.194	40.0
50	25.719	34.503	4.67	25.708	22.751	31.047	38.990	0.259	0.7	-508.26	-12.597	3316.32	21.034	50.0
100	13.040	34.737	0.36	13.026	26.184	34.877	43.190	0.389	1.6	-43.37	4.254	286.26	6.180	99.8
125	12.330	34.776	0.25	12.313	26.356	35.075	43.414	0.433	2.1	-18.12	0.507	94.07	3.543	124.7
150	11.942	34.769	0.33	11.923	26.425	35.160	43.513	0.475	2.7	-15.50	-0.430	61.54	2.865	149.6
200	11.241	34.749	0.47	11.216	26.541	35.305	43.685	0.554	4.1	-11.37	-0.434	42.07	2.369	199.3
250	10.721	34.727	0.38	10.691	26.619	35.405	43.805	0.629	5.8	-11.55	-0.545	39.57	2.298	249.1
300	10.161	34.702	0.21	10.125	26.698	35.507	43.931	0.700	7.8	-8.41	-0.254	30.60	2.021	298.8
350	9.717	34.683	0.14	9.677	26.759	35.588	44.029	0.769	10.1	-9.43	-0.428	30.85	2.029	348.5
400	9.215	34.654	0.11	9.171	26.820	35.671	44.133	0.836	12.7	-12.14	-0.823	33.50	2.114	398.2
450	8.601	34.621	0.08	8.553	26.893	35.771	44.259	0.899	15.4	-11.33	-0.526	34.37	2.141	447.9
500	7.971	34.584	0.09	7.920	26.959	35.867	44.382	0.960	18.3	-15.65	-0.998	40.28	2.318	497.6
600	6.790	34.544	0.17	6.733	27.096	36.059	44.626	1.071	24.6	-8.77	-0.122	28.63	1.954	596.8
700	5.975	34.539	0.31	5.913	27.200	36.202	44.806	1.172	31.2	-6.98	0.054	24.50	1.808	696.1
800	5.329	34.545	0.67	5.261	27.284	36.318	44.952	1.264	38.3	-5.32	0.107	19.39	1.608	795.2
900	4.837	34.551	0.93	4.764	27.346	36.405	45.062	1.349	45.7	-4.65	0.061	15.96	1.459	894.4
1000	4.461	34.559	1.07	4.381	27.395	36.473	45.148	1.429	53.4	-3.96	0.082	13.84	1.359	993.4
1200	3.763	34.578	1.39	3.673	27.484	36.598	45.307	1.577	70.0	-3.11	0.077	11.03	1.213	1191.4
1400	3.255	34.596	1.65	3.153	27.549	36.690	45.424	1.711	87.7	-2.63	0.077	9.48	1.125	1389.2
1600	2.825	34.609	1.89	2.711	27.599	36.764	45.520	1.833	106.4	-1.92	0.076	7.26	0.984	1586.8
1800	2.474	34.627	1.99	2.347	27.644	36.828	45.602	1.947	126.1	-1.71	0.078	6.72	0.947	1784.2
2000	2.202	34.643	2.18	2.063	27.680	36.880	45.668	2.052	146.5	-1.23	0.075	5.25	0.837	1981.4
2200	2.013	34.654	2.35	1.859	27.706	36.916	45.715	2.152	167.8	-0.81	0.048	3.51	0.684	2178.4
2400	1.900	34.663	2.51	1.730	27.722	36.940	45.745	2.248	190.3	-0.54	0.030	2.33	0.558	2375.2
2600	1.844	34.667	2.61	1.657	27.731	36.952	45.762	2.342	214.4	-0.33	0.017	1.44	0.438	2571.8
2800	1.779	34.670	2.69	1.575	27.740	36.966	45.779	2.436	240.3	-0.46	0.021	2.00	0.516	2768.3
3000	1.696	34.675	2.85	1.475	27.751	36.982	45.801	2.529	267.7	-0.51	0.017	2.13	0.533	2964.6
3200	1.629	34.678	3.00	1.389	27.760	36.996	45.819	2.620	296.6	-0.43	0.019	1.93	0.508	3160.7
3400	1.559	34.680	3.11	1.301	27.768	37.009	45.837	2.710	326.9	-0.41	0.015	1.84	0.495	3356.6
3600	1.502	34.685	3.29	1.225	27.777	37.022	45.854	2.799	358.6	-0.40	0.025	2.01	0.518	3552.4
3800	1.453	34.688	3.50	1.156	27.784	37.033	45.868	2.887	391.8	-0.34	0.016	1.61	0.463	3747.9
4000	1.417	34.691	3.67	1.100	27.790	37.043	45.881	2.974	426.4	-0.19	0.007	0.88	0.343	3943.3
4200	1.412	34.692	3.74	1.073	27.793	37.047	45.886	3.061	462.8	-0.10	0.006	0.51	0.261	4138.6
4400	1.422	34.693	3.78	1.061	27.794	37.049	45.889	3.149	501.5	-0.04	0.003	0.22	0.171	4333.6
4600	1.438	34.693	3.81	1.053	27.795	37.050	45.891	3.239	542.5	-0.03	0.003	0.19	0.158	4528.5
4800	1.457	34.694	3.83	1.048	27.796	37.051	45.892	3.329	586.1	-0.01	0.002	0.09	0.107	4723.3
5000	1.480	34.694	3.81	1.046	27.796	37.052	45.893	3.422	632.4	-0.01	0.002	0.09	0.000	4917.8
5015	1.482	34.694	3.81	1.046	27.796	37.052	45.893	3.429	636.0	-0.02	0.002	0.09	0.000	4932.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	25.976	25.974	22.684	30.974	38.910	34.524	34.523	5.06	0.91	0.25	0.20	0.00	1.767	0.943	6	222222222
23	46.2	25.909	25.898	22.711	31.003	38.941	34.529	34.522	5.04	1.12	0.27	0.40	0.00	1.726	0.948	45	222222222
22	71.8	14.588	14.577	25.666	34.304	42.566	34.484	34.439	1.12	17.86	2.05	25.98	0.72	1.012	0.536	71	222222222
21	97.2	12.827	12.814	26.233	34.933	43.254	34.744	34.752	0.28	25.68	2.38	34.14	0.06	0.268	0.151	96	222222222
20	120.9	12.246	12.230	26.380	35.103	43.444	34.787	34.772	0.26	27.00	2.40	35.00	0.00	0.181		120	222222225
19	145.3	11.738	11.719	26.462	35.205	43.566	34.767	34.768	0.38	28.12	2.39	34.89	0.01	0.148	0.094	144	222222222
18	173.8	11.344	11.322	26.526	35.286	43.662	34.755	34.752	0.38	29.23	2.42	34.89	0.01	0.125		172	222222225
17	196.6	11.083	11.059	26.566	35.336	43.722	34.744	34.740	0.37	30.35	2.43	35.19	0.01	0.104		195	222222225
16	246.8	10.468	10.439	26.653	35.449	43.860	34.714	34.714	0.21	34.61	2.55	36.29	0.01	0.048	0.040	245	222222222
15	297.1	9.947	9.913	26.723	35.542	43.974	34.688	34.700	0.22	35.53	2.63	37.39	0.01	0.024		295	222222225
14	396.0	8.988	8.945	26.846	35.707	44.178	34.640	34.636	0.12	43.95	2.85	37.89	0.01	0.003	0.010	393	222222222
13	496.4	7.652	7.603	26.991	35.913	44.442	34.565	34.569	0.23	55.22	3.04	40.09	0.01	0.000	0.017	493	222222252
12	621.2	6.410	6.353	27.142	36.123	44.707	34.537	34.537	0.22	70.54	3.19	43.18	0.02	0.000	0.006	616	222222252
11	795.9	5.204	5.137	27.304	36.345	44.984	34.552	34.544	0.75	85.06	3.15	44.78	0.02	-0.001	0.008	789	222222222
10	996.2	4.371	4.293	27.401	36.484	45.163	34.555	34.558	1.15	100.18	3.12	44.18	0.02	0.008	0.012	988	222222222
9	1247.5	3.594	3.501	27.507	36.630	45.347	34.585	34.584	1.47	117.44	3.07	43.58	0.02	0.004		1236	222222225
8	1498.4	2.988	2.880	27.578	36.734	45.482	34.602	34.602	1.80	131.24	2.96	42.58	0.02	0.009	0.015	1484	222222222
7	1998.5	2.179	2.040	27.684	36.884	45.674	34.644	34.644	2.22	152.55	2.86	41.58	0.02	0.001		1977	222222225
6	2500.3	1.867	1.689	27.727	36.947	45.754	34.665	34.667	2.57	159.46	2.77	40.38	0.02	-0.001	0.000	2471	222222225
5	3000.2	1.697	1.476	27.751	36.983	45.801	34.675	34.674	2.87	160.78	2.67	39.37	0.03		0.002	2962	222222252
4	3501.7	1.534	1.267	27.772	37.015	45.844	34.682	34.682	3.21	161.99	2.60	38.57	0.03	-0.001	-0.002	3453	222222222
3	4003.0	1.419	1.102	27.790	37.042	45.880	34.690	34.691	3.68	150.12	2.49	37.07	0.03	-0.003	-0.003	3943	222222222
2	4503.2	1.430	1.057	27.795	37.049	45.890	34.693	34.696	3.78	148.29	2.47	36.77	0.03	-0.001	0.000	4430	222222225
1	5017.3	1.482	1.046	27.795	37.051	45.892	34.693	34.695	3.81	147.78	2.47	36.67	0.03	-0.003		4931	222222225

CRUISE: MW 893 STA: 156 DATE (D/M/Y): 22- 4-89 TIME: 1402 LAT: 9 29.31 N LONG: 131 59.97 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24042E-04 1/S SOUND SPEED= 1505.5 M/S Depth= 5063 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.105	34.628	4.88	26.105	22.722	31.007	38.939	0.000	0.0	-0.22	0.000	0.00	0.000	0.0
1	26.105	34.628	4.88	26.104	22.722	31.007	38.939	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.107	34.622	5.13	26.102	22.718	31.004	38.936	0.103	0.1	0.06	0.021	-0.04	-0.074	20.0
30	26.111	34.623	5.14	26.104	22.718	31.004	38.936	0.154	0.2	0.37	0.037	-2.04	-0.523	30.0
40	26.115	34.624	5.07	26.106	22.719	31.004	38.936	0.205	0.4	0.01	-0.018	-0.39	-0.229	40.0
50	26.118	34.624	5.02	26.106	22.718	31.004	38.935	0.257	0.7	0.18	0.010	-1.16	-0.393	50.0
100	13.453	34.622	0.61	13.439	26.012	34.690	42.990	0.439	2.0	-83.51	4.870	510.27	8.256	99.9
125	12.587	34.736	0.49	12.571	26.274	34.984	43.314	0.487	2.5	-32.80	1.613	187.71	5.007	124.8
150	11.957	34.740	0.52	11.937	26.400	35.135	43.488	0.529	3.1	-24.85	-0.444	105.29	3.750	149.6
200	11.166	34.741	0.49	11.141	26.549	35.316	43.699	0.608	4.5	-13.74	-0.151	57.36	2.768	199.4
250	10.567	34.721	0.44	10.537	26.641	35.433	43.840	0.683	6.2	-10.27	-0.341	37.52	2.239	249.1
300	10.059	34.700	0.23	10.024	26.714	35.528	43.955	0.754	8.2	-9.60	-0.419	32.29	2.077	298.9
350	9.621	34.680	0.17	9.581	26.773	35.606	44.051	0.822	10.5	-10.07	-0.635	29.40	1.981	348.6
400	9.084	34.644	0.11	9.040	26.833	35.690	44.158	0.888	13.0	-12.33	-0.667	36.64	2.212	398.3
450	8.431	34.607	0.11	8.384	26.908	35.794	44.289	0.950	15.7	-10.12	-0.397	31.61	2.055	447.9
500	7.830	34.579	0.11	7.779	26.976	35.891	44.412	1.010	18.6	-13.84	-0.727	38.10	2.256	497.6
600	6.645	34.541	0.14	6.589	27.113	36.083	44.657	1.120	24.7	-10.43	-0.166	33.21	2.106	596.9
700	5.773	34.539	0.19	5.712	27.224	36.237	44.849	1.218	31.2	-7.15	0.038	24.44	1.807	696.1
800	5.169	34.542	0.48	5.102	27.301	36.343	44.984	1.308	38.1	-5.61	0.065	19.22	1.602	795.3
900	4.700	34.553	0.94	4.628	27.364	36.429	45.092	1.391	45.3	-4.14	0.108	14.93	1.412	894.4
1000	4.312	34.561	1.15	4.233	27.413	36.499	45.180	1.469	52.9	-3.22	0.108	11.90	1.261	993.5
1200	3.682	34.582	1.40	3.592	27.495	36.613	45.326	1.614	69.1	-2.90	0.080	10.35	1.176	1191.4
1400	3.198	34.597	1.68	3.096	27.555	36.699	45.436	1.746	86.6	-2.44	0.077	8.81	1.085	1389.2
1600	2.757	34.612	1.92	2.644	27.608	36.776	45.535	1.867	105.0	-1.91	0.083	7.36	0.991	1586.8
1800	2.392	34.630	2.15	2.266	27.653	36.842	45.620	1.978	124.3	-1.60	0.087	6.53	0.934	1784.2
2000	2.162	34.645	2.26	2.023	27.685	36.887	45.677	2.082	144.4	-1.11	0.063	4.63	0.786	1981.4
2200	2.007	34.654	2.41	1.854	27.706	36.917	45.716	2.180	165.6	-0.66	0.040	2.85	0.617	2178.4
2400	1.912	34.661	2.53	1.742	27.720	36.937	45.742	2.277	188.1	-0.53	0.028	2.25	0.549	2375.2
2600	1.840	34.666	2.63	1.654	27.731	36.952	45.762	2.371	212.3	-0.41	0.022	1.78	0.488	2571.9
2800	1.785	34.669	2.72	1.581	27.739	36.965	45.778	2.465	238.2	-0.46	0.021	1.99	0.516	2768.3
3000	1.700	34.674	2.84	1.479	27.750	36.981	45.800	2.558	265.6	-0.47	0.021	2.06	0.524	2964.6
3200	1.620	34.678	2.98	1.381	27.760	36.997	45.820	2.649	294.5	-0.40	0.014	1.74	0.482	3160.7
3400	1.569	34.681	3.11	1.311	27.767	37.008	45.835	2.740	324.8	-0.43	0.015	1.87	0.499	3356.6
3600	1.511	34.684	3.29	1.235	27.776	37.020	45.852	2.829	356.7	-0.36	0.019	1.73	0.481	3552.4
3800	1.477	34.687	3.46	1.180	27.782	37.030	45.864	2.917	390.0	-0.28	0.009	1.29	0.414	3748.0
4000	1.431	34.690	3.59	1.114	27.788	37.040	45.877	3.005	425.0	-0.29	0.020	1.55	0.456	3943.4
4200	1.417	34.692	3.71	1.079	27.792	37.046	45.885	3.093	461.6	-0.10	0.004	0.51	0.261	4138.6
4400	1.420	34.693	3.76	1.059	27.794	37.049	45.889	3.181	500.2	-0.07	0.004	0.37	0.223	4333.7
4600	1.436	34.693	3.79	1.052	27.795	37.050	45.891	3.270	541.3	-0.02	0.002	0.12	0.128	4528.6
4800	1.457	34.693	3.80	1.048	27.796	37.051	45.892	3.361	584.9	-0.03	0.001	0.16	0.148	4723.3
5000	1.474	34.694	3.83	1.041	27.797	37.052	45.894	3.454	631.1	-0.02	0.002	0.11	0.121	4917.9
5135	1.491	34.694	3.83	1.040	27.797	37.053	45.894	3.517	663.9	0.00	0.002	0.11	0.000	5049.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.2	26.284	26.282	22.720	31.001	38.928	34.699	34.704	4.91	1.62	0.34	0.17	0.03	1.761	0.934	7	222222222
23	46.8	25.257	25.247	22.542	30.856	38.815	34.040	34.667	4.68	2.33	0.47	1.27	0.03	1.703	0.899	46	222222222
22	70.2	13.216	13.206	26.062	34.749	43.057	34.625	34.663	0.53	23.95	2.39	31.28	0.52	0.474	0.257	69	222222222
21	97.3	12.514	12.501	26.286	34.999	43.331	34.733	34.748	0.47	26.39	2.42	33.60	0.10	0.269		96	222222225
20	123.0	11.948	11.932	26.406	35.141	43.494	34.747	34.750	0.54	27.71	2.43	33.98	0.02	0.210		122	222222225
19	147.6	11.559	11.540	26.470	35.221	43.589	34.734	34.740	0.51	28.62	2.44	34.38	0.02	0.164	0.098	146	222222222
18	172.7	11.255	11.233	26.521	35.284	43.664	34.727	34.739	0.52	29.64	2.48	34.88	0.02	0.130	0.080	171	222222222
17	198.1	11.087	11.063	26.559	35.329	43.715	34.736	34.736	0.48	30.35	2.48	35.18	0.02	0.109		196	222222225
16	246.8	10.531	10.502	26.643	35.436	43.844	34.715	34.723	0.41	32.48	2.53	36.08	0.02	0.070		245	222222225
15	297.9	10.081	10.046	26.710	35.523	43.949	34.700	34.699	0.21	35.42	2.70	37.28	0.02	0.031		296	222222225
14	397.5	9.143	9.099	26.825	35.680	44.144	34.646	34.648	0.14	43.44	2.88	37.70	0.00	0.006		394	222222225
13	495.1	7.986	7.936	26.950	35.857	44.372	34.575	34.609	0.13	50.04	3.05	39.00	0.00	-0.002	0.007	491	222222222
12	596.8	6.751	6.694	27.099	36.064	44.633	34.541	34.544	0.17	66.58	3.23	42.30	0.00	0.001	0.016	592	222222222
11	699.0	5.929	5.867	27.207	36.212	44.818	34.542	34.535	0.30	76.63	3.29	44.70	0.00	-0.003	0.004	693	222222222
10	797.7	5.275	5.208	27.287	36.324	44.960	34.541	34.539	0.51	85.56	3.31	45.60	0.00			791	222222255
9	997.5	4.324	4.246	27.408	36.493	45.174	34.556	34.559	1.16	101.50	3.18	44.20	0.00	0.002		989	222222225
8	1498.4	2.995	2.887	27.578	36.733	45.481	34.602	34.603	1.83	130.93	3.05	42.70	0.00			1484	222222255
7	1998.8	2.158	2.019	27.685	36.887	45.677	34.644	34.646	2.27	151.34	2.92	41.50	0.00	-0.002	-0.005	1978	222222222
6	2505.7	1.866	1.688	27.726	36.946	45.754	34.664	34.665	2.61	157.93	2.81	40.40	0.00			2476	222222255
5	3002.8	1.692	1.471	27.750	36.982	45.801	34.673	34.677	2.90	161.99	2.74	39.50	0.00	0.031	0.057	2964	222222222
4	3501.5	1.530	1.263	27.772	37.015	45.845	34.682	34.686	3.26	159.46	2.64	38.60	0.00			3453	222222255
3	4003.3	1.425	1.108	27.788	37.040	45.878	34.689	34.692	3.66	151.03	2.55	37.30	0.00	-0.001		3943	222222225
2	4504.7	1.427	1.054	27.794	37.049	45.890	34.692		3.80	147.58	2.52	36.90	0.00			4432	252222255
1	5138.8	1.491	1.040	27.796	37.051	45.893	34.693	34.691	3.84	146.87	2.50	36.80	0.00	-0.001		5049	222222225

CRUISE: MW 893 STA: 157 DATE (D/M/Y): 22- 4-89 TIME: 2300 LAT: 9 29.59 N LONG: 131 10.15 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24054E-04 1/S SOUND SPEED= 1504.3 M/S Depth= 4888 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.680	34.758	3.86	26.680	22.639	30.909	38.826	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.680	34.758	3.86	26.679	22.639	30.909	38.826	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.552	34.743	4.92	26.548	22.670	30.943	38.863	0.104	0.1	-7.90	-0.419	51.29	2.617	20.0
30	26.515	34.741	4.96	26.508	22.680	30.954	38.876	0.156	0.2	-1.66	-0.078	10.94	1.209	30.0
40	26.505	34.741	4.96	26.496	22.684	30.958	38.880	0.207	0.4	-0.33	0.109	4.38	0.765	40.0
50	26.502	34.740	4.91	26.491	22.686	30.960	38.882	0.259	0.7	-1.73	-0.211	9.12	1.104	50.0
100	12.965	34.681	0.47	12.951	26.156	34.852	43.169	0.401	1.7	-44.43	2.608	260.69	5.899	99.8
125	12.180	34.725	0.39	12.164	26.345	35.071	43.416	0.445	2.2	-28.24	0.733	145.76	4.411	124.7
150	11.658	34.747	0.40	11.639	26.461	35.208	43.572	0.486	2.8	-14.74	0.679	79.47	3.257	149.6
200	11.023	34.734	0.49	10.999	26.569	35.342	43.731	0.564	4.1	-10.77	-0.349	40.44	2.323	199.4
250	10.521	34.715	0.46	10.491	26.645	35.439	43.848	0.638	5.8	-9.77	-0.397	34.28	2.139	249.1
300	10.145	34.703	0.46	10.110	26.702	35.512	43.935	0.709	7.8	-7.54	-0.264	26.68	1.887	298.8
350	9.768	34.684	0.25	9.728	26.752	35.578	44.017	0.778	10.1	-9.21	-0.602	26.78	1.891	348.5
400	9.270	34.651	0.20	9.225	26.809	35.657	44.117	0.844	12.7	-9.82	-0.570	28.94	1.966	398.2
450	8.720	34.617	0.25	8.671	26.871	35.744	44.227	0.909	15.5	-13.40	-0.833	36.92	2.220	447.9
500	8.135	34.603	0.16	8.083	26.950	35.850	44.358	0.970	18.4	-12.99	-0.444	40.90	2.337	497.6
600	6.826	34.549	0.24	6.769	27.095	36.057	44.622	1.082	24.7	-10.65	-0.227	33.67	2.120	596.9
700	5.974	34.539	0.39	5.912	27.200	36.202	44.806	1.183	31.4	-8.07	-0.034	26.62	1.885	696.1
800	5.279	34.540	0.47	5.212	27.286	36.323	44.959	1.275	38.4	-6.66	0.005	21.79	1.706	795.3
900	4.788	34.548	0.66	4.715	27.350	36.411	45.070	1.359	45.7	-4.55	0.091	16.02	1.462	894.4
1000	4.354	34.560	0.93	4.276	27.407	36.491	45.170	1.439	53.4	-3.68	0.119	13.67	1.351	993.4
1200	3.711	34.580	1.40	3.621	27.491	36.608	45.319	1.584	69.7	-2.89	0.079	10.30	1.173	1191.4
1400	3.222	34.596	1.56	3.120	27.551	36.695	45.430	1.717	87.3	-2.38	0.083	8.79	1.083	1389.2
1600	2.796	34.612	1.82	2.682	27.604	36.770	45.528	1.838	105.9	-2.02	0.081	7.64	1.010	1586.8
1800	2.448	34.628	2.04	2.322	27.648	36.833	45.608	1.951	125.3	-1.49	0.077	6.00	0.895	1784.2
2000	2.194	34.643	2.16	2.054	27.681	36.881	45.670	2.056	145.7	-1.19	0.064	4.90	0.808	1981.4
2200	2.005	34.655	2.36	1.851	27.707	36.918	45.717	2.155	166.9	-0.76	0.048	3.33	0.666	2178.4
2400	1.903	34.662	2.48	1.733	27.722	36.939	45.744	2.251	189.4	-0.47	0.029	2.09	0.528	2375.2
2600	1.837	34.667	2.59	1.651	27.732	36.954	45.763	2.345	213.5	-0.42	0.020	1.78	0.488	2571.8
2800	1.771	34.671	2.70	1.568	27.741	36.967	45.781	2.439	239.3	-0.46	0.019	1.94	0.509	2768.3
3000	1.688	34.675	2.84	1.467	27.751	36.983	45.802	2.531	266.6	-0.52	0.017	2.16	0.538	2964.6
3200	1.602	34.678	2.99	1.364	27.761	36.999	45.823	2.622	295.3	-0.45	0.020	2.02	0.519	3160.7
3400	1.548	34.683	3.17	1.291	27.771	37.012	45.841	2.711	325.4	-0.38	0.017	1.73	0.480	3356.6
3600	1.486	34.686	3.37	1.209	27.779	37.025	45.857	2.800	356.9	-0.41	0.019	1.93	0.507	3552.4
3800	1.437	34.689	3.55	1.141	27.786	37.036	45.872	2.887	389.8	-0.29	0.012	1.36	0.427	3747.9
4000	1.411	34.691	3.67	1.095	27.791	37.044	45.882	2.974	424.2	-0.20	0.007	0.95	0.356	3943.4
4200	1.405	34.693	3.74	1.066	27.794	37.048	45.888	3.060	460.6	-0.11	0.005	0.56	0.274	4138.6
4400	1.413	34.693	3.80	1.052	27.796	37.051	45.891	3.148	499.0	-0.04	0.002	0.21	0.167	4333.6
4600	1.430	34.694	3.82	1.046	27.796	37.052	45.893	3.237	539.9	-0.04	0.002	0.21	0.165	4528.5
4800	1.450	34.694	3.84	1.041	27.797	37.052	45.893	3.328	583.4	-0.02	0.002	0.12	0.128	4723.3
4957	1.467	34.694	3.84	1.039	27.797	37.053	45.894	3.400	619.4	-0.01	0.002	0.12	0.000	4876.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.9	26.622	26.621	22.652	30.923	38.842	34.750	34.749	5.04	1.52	0.25	0.29	0.01	1.721	0.947	7	222222222
23	48.5	26.282	26.272	22.840	31.119	39.045	34.854	34.727	4.86	2.03	0.35	1.18	0.02	1.676	0.962	48	222222222
22	97.2	12.571	12.558	26.263	34.974	43.304	34.718	34.699	0.34	25.88	2.42	33.26	0.14	0.301	0.171	96	222222222
21	123.0	11.846	11.830	26.417	35.157	43.514	34.737	34.731	0.36	27.91	2.45	34.40	0.00	0.176	0.101	122	222222222
20	147.4	11.519	11.500	26.491	35.243	43.612	34.751	34.748	0.41	28.72	2.39	34.60	0.00	0.138		146	222222225
19	197.6	10.926	10.902	26.584	35.361	43.753	34.731	34.727	0.45	30.86	2.47	35.20	0.00	0.094		196	222222225
18	246.0	10.464	10.435	26.656	35.452	43.863	34.716	34.711	0.41	32.68	2.51	35.90	0.00	0.048		244	222222225
17	295.9	10.070	10.035	26.712	35.525	43.952	34.699	34.698	0.34	34.61	2.58	36.90	0.00	0.043		294	222222225
16	397.8	9.075	9.031	26.827	35.685	44.153	34.635	34.641	0.19	42.02	2.80	38.11	-0.01	0.006		395	222222225
15	496.7	7.935	7.885	26.963	35.873	44.389	34.582	34.592		53.19	3.05	39.61	-0.01	0.010		493	225222225
14	595.9	6.693	6.637	27.113	36.081	44.652	34.549	34.554	0.23	66.08	3.16	42.61	-0.01			591	222222255
12	797.8	5.326	5.258	27.291	36.325	44.959	34.554	34.541	0.51	84.55	3.24	45.11	-0.01	0.005	0.007	791	222222222
11	998.4	4.387	4.308	27.402	36.483	45.162	34.557	34.556	0.89	101.60	3.23	44.90	0.00			990	222222255
10	1248.6	3.569	3.476	27.508	36.632	45.350	34.583	34.579	1.41	118.55	3.12	43.60	0.00			1237	222222255
9	1498.0	2.969	2.862	27.579	36.735	45.484	34.600	34.603	1.69	132.25	3.05	43.00	0.00			1484	222222255
8	1747.8	2.512	2.389	27.638	36.820	45.592	34.623	34.624	1.96	142.91	2.95	42.00	0.00	0.005		1730	222222225
7	1998.7	2.180	2.041	27.684	36.885	45.674	34.645	34.645	2.16	152.55	2.90	41.60	0.00			1977	222222255
6	2501.8	1.862	1.684	27.728	36.948	45.755	34.665	34.665	2.51	159.35	2.79	40.30	0.00	0.000		2472	222222255
5	3002.0	1.681	1.460	27.752	36.984	45.804	34.675	34.678		161.38	2.71	39.40	0.00			2963	225222255
4	3503.8	1.513	1.246	27.776	37.020	45.851	34.686	34.685	3.27	157.63	2.61	38.30	0.00			3455	222222255
3	4005.5	1.409	1.092	27.791	37.043	45.882	34.691	34.691	3.70	149.71	2.52	37.10	0.00			3945	222222255
2	4505.0	1.422	1.049	27.795	37.050	45.891	34.692	34.694	3.75	146.87	2.50	36.70	0.00			4432	222222255
1	4960.5	1.467	1.039	27.796	37.052	45.893	34.693	34.693	3.78	146.16	2.49	36.70	0.00	0.003		4875	222222225

CRUISE: MW 893 STA: 158 DATE (D/M/Y): 23- 4-89 TIME: 0719 LAT: 9 29.98 N LONG: 130 19.92 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1503.2 M/S Depth= 4689 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.508	34.777	4.84	26.508	22.708	30.982	38.903	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.508	34.777	4.84	26.508	22.708	30.982	38.903	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.519	34.769	4.90	26.514	22.700	30.973	38.894	0.103	0.1	-0.31	-0.105	0.43	0.238	20.0
30	26.514	34.768	4.96	26.508	22.701	30.975	38.896	0.154	0.2	0.24	0.030	-1.23	-0.406	30.0
40	26.512	34.766	4.81	26.503	22.702	30.976	38.897	0.206	0.4	-1.51	-0.202	7.64	1.010	40.0
50	26.495	34.765	4.90	26.484	22.706	30.981	38.902	0.258	0.7	-2.40	-0.186	14.54	1.393	50.0
100	12.976	34.723	0.20	12.963	26.186	34.881	43.197	0.422	1.8	-48.63	5.347	330.78	6.643	99.8
125	12.146	34.753	0.39	12.130	26.373	35.100	43.446	0.465	2.3	-23.66	-0.191	106.61	3.771	124.7
150	11.758	34.758	0.41	11.738	26.451	35.194	43.554	0.506	2.9	-12.44	0.014	56.02	2.734	149.6
200	11.121	34.742	0.40	11.097	26.558	35.327	43.711	0.584	4.3	-12.14	-0.361	46.47	2.490	199.4
250	10.571	34.724	0.28	10.541	26.643	35.435	43.841	0.658	6.0	-8.52	-0.308	30.70	2.024	249.1
300	10.120	34.705	0.18	10.085	26.708	35.519	43.944	0.729	8.0	-9.21	-0.461	30.09	2.004	298.8
350	9.740	34.687	0.14	9.700	26.759	35.587	44.027	0.798	10.2	-8.10	-0.404	25.86	1.857	348.5
400	9.281	34.663	0.14	9.237	26.816	35.665	44.124	0.865	12.8	-9.14	-0.390	29.66	1.989	398.2
450	8.823	34.638	0.11	8.774	26.871	35.740	44.218	0.929	15.6	-11.85	-0.755	32.67	2.088	447.9
500	8.162	34.601	0.11	8.111	26.944	35.843	44.349	0.990	18.6	-13.17	-0.764	36.02	2.192	497.6
600	7.032	34.559	0.17	6.975	27.075	36.027	44.583	1.104	24.9	-10.78	-0.120	36.64	2.211	596.9
700	6.174	34.545	0.30	6.111	27.179	36.172	44.767	1.206	31.7	-7.94	-0.144	24.30	1.801	696.1
800	5.472	34.541	0.69	5.403	27.264	36.291	44.918	1.300	38.9	-6.27	0.047	21.47	1.693	795.3
900	4.936	34.553	0.84	4.862	27.336	36.390	45.042	1.387	46.4	-4.75	0.064	16.59	1.488	894.4
1000	4.547	34.559	1.04	4.467	27.386	36.459	45.130	1.469	54.3	-4.08	0.095	14.58	1.395	993.5
1200	3.812	34.578	1.29	3.721	27.479	36.591	45.297	1.617	71.0	-3.09	0.090	11.18	1.221	1191.5
1400	3.269	34.594	1.51	3.166	27.546	36.687	45.420	1.752	88.7	-2.55	0.090	9.43	1.122	1389.2
1600	2.800	34.614	1.77	2.686	27.605	36.771	45.528	1.874	107.4	-2.00	0.087	7.72	1.015	1586.8
1800	2.465	34.631	1.92	2.338	27.649	36.833	45.608	1.986	126.9	-1.58	0.084	6.44	0.927	1784.2
2000	2.183	34.646	2.15	2.044	27.684	36.885	45.674	2.091	147.1	-1.38	0.073	5.69	0.871	1981.4
2200	1.976	34.658	2.38	1.823	27.712	36.924	45.725	2.189	168.2	-0.86	0.049	3.68	0.701	2178.4
2400	1.874	34.665	2.52	1.705	27.726	36.945	45.752	2.284	190.4	-0.45	0.024	1.92	0.505	2375.2
2600	1.815	34.669	2.63	1.629	27.735	36.958	45.769	2.377	214.2	-0.35	0.018	1.52	0.450	2571.9
2800	1.743	34.673	2.75	1.539	27.745	36.973	45.788	2.470	239.8	-0.53	0.022	2.25	0.548	2768.3
3000	1.657	34.677	2.92	1.437	27.756	36.989	45.810	2.561	266.7	-0.48	0.022	2.14	0.534	2964.6
3200	1.591	34.680	3.07	1.352	27.764	37.003	45.828	2.651	295.1	-0.41	0.014	1.75	0.483	3160.7
3400	1.533	34.683	3.21	1.276	27.772	37.015	45.843	2.740	325.0	-0.34	0.015	1.54	0.453	3356.6
3600	1.491	34.686	3.36	1.215	27.779	37.025	45.857	2.828	356.4	-0.35	0.011	1.55	0.455	3552.4
3800	1.433	34.688	3.53	1.137	27.786	37.036	45.872	2.915	389.2	-0.29	0.012	1.36	0.427	3748.0
4000	1.397	34.692	3.68	1.080	27.792	37.046	45.885	3.001	423.6	-0.22	0.012	1.13	0.388	3943.4
4200	1.403	34.693	3.75	1.064	27.794	37.049	45.889	3.088	459.8	-0.04	0.003	0.21	0.167	4138.6
4400	1.419	34.693	3.78	1.058	27.795	37.050	45.890	3.176	498.4	-0.02	0.003	0.15	0.140	4333.7
4600	1.440	34.694	3.80	1.055	27.795	37.050	45.891	3.265	539.4	-0.01	0.001	0.05	0.081	4528.6
4767	1.455	34.694	3.78	1.050	27.796	37.052	45.892	3.341	575.6	-0.05	0.006	0.05	0.000	4691.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.2	26.485	26.483	22.712	30.986	38.908	34.771	34.774	4.75	1.52	0.31	1.16	0.04	1.746	0.931	6	222222222
23	47.1	26.327	26.317	22.760	31.039	38.964	34.766	34.768	4.89	1.93	0.36	1.57	0.03	1.721	0.906	46	222222222
22	73.1	13.289	13.279	26.117	34.801	43.105	34.716	34.629	0.30	24.46	2.48	30.91	0.19	0.523	0.284	72	222222222
21	97.4	12.404	12.391	26.303	35.020	43.356	34.728	34.733	0.08	28.12	2.54	32.88	0.02	0.207	0.127	96	222222222
20	123.7	11.830	11.814	26.434	35.173	43.531	34.754	34.752	0.42	28.22	2.40	33.99	0.01	0.183		122	222222225
19	146.7	11.510	11.491	26.493	35.246	43.615	34.753	34.750	0.46	29.13	2.42	34.00	0.00	0.153		145	222222225
18	173.5	11.224	11.202	26.541	35.305	43.686	34.745	34.742	0.32	30.65	2.49	34.90	0.00	0.108		172	222222225
17	195.5	10.990	10.966	26.577	35.351	43.741	34.736	34.734	0.34	31.16	2.49	35.10	0.00	0.088		194	222222225
16	248.7	10.465	10.435	26.655	35.451	43.862	34.716	34.716	0.21	33.80	2.61	36.00	0.00	0.053		247	222222225
15	297.4	10.025	9.991	26.719	35.535	43.963	34.699	34.698	0.11	36.64	2.73	36.50	0.00	0.025		295	222222225
13	498.1	7.990	7.939	26.954	35.861	44.375	34.581	34.588	0.09	53.79	3.06	39.00	0.00	0.002	0.012	494	222222222
12	618.9	6.613	6.555	27.128	36.100	44.675	34.554	34.558	0.18	67.60	3.20	43.00	0.00	0.002	0.005	614	222222222
11	799.7	5.343	5.275	27.280	36.314	44.947	34.542	34.540	0.73	84.04	3.19	44.00	0.00	0.001	0.001	793	222222222
10	996.6	4.407	4.328	27.401	36.481	45.159	34.559	34.558	1.10	99.47	3.16	43.60	0.00	0.004	0.000	988	222222225
9	1248.4	3.603	3.510	27.504	36.627	45.344	34.584		1.43	118.04	3.11	43.10	0.00	0.006		1237	252222225
8	1500.0	3.023	2.915	27.577	36.731	45.476	34.604	34.605	1.66	132.15	3.07	42.70	0.00	0.008	0.013	1486	222222222
7	1999.7	2.207	2.068	27.681	36.880	45.669	34.644		2.13	152.86	2.94	41.50	0.00	0.003		1978	252222225
6	2499.1	1.852	1.675	27.730	36.951	45.759	34.667	34.667	2.56	161.18	2.81	39.90	0.00	-0.002	0.000	2470	222222225
5	3001.6	1.656	1.436	27.756	36.989	45.810	34.677	34.678	2.94	161.38	2.72	38.90	0.00	0.044	0.031	2963	222222222
4	3504.7	1.509	1.242	27.776	37.020	45.851	34.685	34.686	3.32	158.34	2.63	37.90	0.00	0.003	0.004	3456	222222222
3	4003.6	1.397	1.081	27.792	37.045	45.884	34.691	34.692	3.69	150.93	2.54	36.70	0.00	0.002	-0.003	3943	222222222
2	4503.7	1.429	1.056	27.795	37.050	45.890	34.693	34.695	3.79	148.90	2.50	36.60	0.00	0.000	0.001	4431	222222252
1	4770.1	1.455	1.050	27.795	37.051	45.891	34.693	34.694	3.80	148.39	2.53	36.60	0.00	0.002		4690	222222225

CRUISE: MW 893 STA: 159 DATE (D/M/Y): 23- 4-89 TIME: 1545 LAT: 9 29.75 N LONG: 129 30.07 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24060E-04 1/S SOUND SPEED= 1503.1 M/S Depth= 4724 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.564	34.667	5.12	26.564	22.607	30.881	38.802	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.564	34.667	5.12	26.563	22.607	30.881	38.802	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.578	34.665	5.02	26.574	22.603	30.876	38.797	0.105	0.1	0.04	0.076	1.06	0.377	20.0
30	26.579	34.666	4.97	26.572	22.604	30.877	38.798	0.157	0.2	-0.08	-0.067	-0.59	-0.281	30.0
40	26.581	34.665	5.03	26.572	22.604	30.877	38.798	0.210	0.4	-0.37	0.221	6.65	0.942	40.0
50	26.570	34.672	4.83	26.559	22.612	30.886	38.807	0.262	0.7	-25.51	0.410	196.53	5.121	50.0
100	12.547	34.767	0.28	12.533	26.306	35.017	43.348	0.391	1.6	-28.85	1.494	162.75	4.661	99.8
125	12.058	34.769	0.32	12.042	26.402	35.132	43.481	0.433	2.1	-18.55	-0.461	75.43	3.173	124.7
150	11.655	34.760	0.36	11.636	26.472	35.219	43.583	0.473	2.6	-14.74	-0.417	59.48	2.817	149.6
200	11.072	34.741	0.49	11.048	26.566	35.336	43.723	0.551	4.0	-10.70	-0.374	39.84	2.306	199.3
250	10.588	34.722	0.30	10.558	26.638	35.430	43.835	0.625	5.7	-9.97	-0.390	35.45	2.175	249.1
300	10.137	34.705	0.21	10.102	26.704	35.515	43.939	0.696	7.7	-8.45	-0.370	28.58	1.953	298.8
350	9.649	34.679	0.16	9.609	26.768	35.600	44.043	0.765	10.0	-11.67	-0.712	34.63	2.150	348.5
400	9.061	34.641	0.13	9.017	26.835	35.693	44.161	0.830	12.5	-12.21	-0.782	34.06	2.132	398.2
450	8.467	34.606	0.14	8.419	26.901	35.786	44.280	0.893	15.2	-11.81	-0.578	34.77	2.154	447.9
500	7.893	34.580	0.13	7.842	26.968	35.879	44.397	0.953	18.1	-13.01	-0.519	38.91	2.279	497.6
600	6.747	34.539	0.28	6.691	27.098	36.063	44.632	1.064	24.4	-9.45	-0.118	31.10	2.037	596.8
700	5.946	34.542	0.33	5.884	27.206	36.210	44.815	1.165	31.0	-6.66	0.092	24.23	1.798	696.1
800	5.356	34.544	0.70	5.289	27.280	36.313	44.945	1.257	38.0	-5.89	0.016	19.56	1.616	795.2
900	4.874	34.553	0.87	4.801	27.344	36.401	45.056	1.342	45.4	-4.55	0.092	16.19	1.470	894.4
1000	4.431	34.560	1.10	4.352	27.399	36.478	45.155	1.422	53.2	-4.20	0.062	14.27	1.380	993.4
1200	3.741	34.579	1.37	3.651	27.487	36.602	45.312	1.569	69.7	-3.08	0.093	11.17	1.221	1191.4
1400	3.224	34.596	1.62	3.122	27.551	36.694	45.430	1.702	87.2	-2.33	0.075	8.50	1.065	1389.2
1600	2.816	34.611	1.87	2.701	27.601	36.767	45.523	1.824	105.9	-2.08	0.082	7.86	1.024	1586.8
1800	2.462	34.627	2.09	2.336	27.646	36.830	45.605	1.937	125.5	-1.57	0.083	6.37	0.922	1784.2
2000	2.196	34.646	2.15	2.056	27.683	36.883	45.672	2.042	145.8	-1.32	0.068	5.40	0.849	1981.3
2200	1.993	34.656	2.35	1.839	27.709	36.920	45.720	2.141	167.0	-0.74	0.051	3.29	0.662	2178.4
2400	1.880	34.664	2.51	1.711	27.725	36.944	45.750	2.236	189.3	-0.51	0.031	2.23	0.546	2375.2
2600	1.817	34.668	2.62	1.631	27.734	36.957	45.768	2.330	213.2	-0.35	0.018	1.51	0.450	2571.8
2800	1.764	34.671	2.72	1.561	27.742	36.969	45.783	2.423	238.9	-0.46	0.021	1.96	0.511	2768.3
3000	1.682	34.676	2.87	1.461	27.753	36.986	45.805	2.515	266.1	-0.52	0.024	2.29	0.553	2964.6
3200	1.607	34.680	3.04	1.368	27.763	37.000	45.824	2.606	294.7	-0.44	0.018	1.93	0.508	3160.7
3400	1.548	34.683	3.19	1.291	27.771	37.013	45.841	2.695	324.8	-0.35	0.013	1.57	0.458	3356.6
3600	1.501	34.686	3.32	1.224	27.778	37.023	45.855	2.783	356.3	-0.36	0.013	1.61	0.464	3552.4
3800	1.439	34.688	3.49	1.143	27.785	37.035	45.871	2.871	389.4	-0.38	0.013	1.76	0.484	3747.9
4000	1.404	34.691	3.66	1.088	27.791	37.044	45.883	2.958	423.8	-0.15	0.009	0.78	0.322	3943.3
4200	1.407	34.692	3.72	1.069	27.793	37.048	45.887	3.045	460.2	-0.08	0.005	0.42	0.237	4138.6
4400	1.422	34.693	3.76	1.060	27.794	37.049	45.889	3.132	498.8	-0.02	0.002	0.12	0.125	4333.6
4600	1.443	34.693	3.78	1.058	27.795	37.050	45.890	3.222	539.8	-0.02	0.001	0.09	0.111	4528.5
4783	1.463	34.694	3.78	1.056	27.795	37.050	45.891	3.305	579.7	0.00	0.000	0.09	0.000	4706.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.8	26.603	26.601	22.589	30.861	38.781	34.658	34.657	4.87	1.22	0.25	0.01	-0.01	1.755	0.956	6	222222222
23	46.6	26.574	26.564	22.604	30.878	38.799	34.663	34.658	4.90	1.62	0.30	0.31	-0.01	1.685	0.897	46	222222222
22	72.4	13.769	13.759	26.014	34.679	42.967	34.710	34.723	0.29	23.85	2.51	32.12	0.28	0.387	0.200	71	222222222
21	96.3	12.690	12.677	26.280	34.986	43.311	34.771	34.778	0.10	26.19	2.53	34.85	0.05	0.208	0.117	95	222222222
20	121.6	12.102	12.086	26.396	35.125	43.472	34.772	34.780	0.22	27.41	2.51	35.21	-0.01	0.168	0.100	120	222222222
19	146.5	11.680	11.661	26.468	35.214	43.577	34.761	34.757	0.28	28.62	2.51	35.31	-0.01	0.136		145	222222225
18	197.0	11.084	11.060	26.564	35.334	43.721	34.742	34.738	0.42	30.35	2.50	35.51	-0.01	0.112		195	222222225
17	248.0	10.579	10.549	26.640	35.432	43.838	34.722	34.721	0.25	32.68	2.61	36.41	-0.01	0.072		246	222222225
16	297.2	10.128	10.093	26.705	35.516	43.940	34.704	34.702	0.14	35.42	2.70	37.01	-0.01	0.030		295	222222225
15	397.4	9.110	9.066	26.831	35.687	44.153	34.646	34.653	0.11	43.44	2.92	37.41	-0.01	0.008		394	222222225
14	499.4	7.799	7.749	26.975	35.891	44.413	34.572	34.574	0.11	55.83	3.11	39.31	-0.01	0.000	0.015	495	222222252
13	596.8	6.726	6.670	27.101	36.067	44.637	34.539	34.538	0.26	66.58	3.20	42.51	-0.01	0.000	0.006	592	222222252
12	697.6	5.968	5.906	27.203	36.205	44.809	34.542	34.540	0.32	75.62	3.28	44.90	0.00	0.002		692	222222225
11	800.0	5.416	5.348	27.273	36.303	44.932	34.544	34.542	0.70	82.01	3.23	44.90	0.00			793	222222255
10	998.8	4.495	4.415	27.390	36.467	45.140	34.557	34.558	1.11	98.35	3.22	44.50	0.00	0.014	0.010	990	222222222
9	1249.2	3.613	3.520	27.503	36.625	45.341	34.583	34.581	1.41	117.54		44.10	0.00			1238	222252255
8	1498.0	3.016	2.908	27.576	36.731	45.477	34.603	34.604	1.79	131.44	3.04	42.80	0.00	0.007	0.005	1484	222222222
7	1998.8	2.196	2.057	27.683	36.883	45.672	34.646	34.647	2.16	153.37	2.97	41.90	0.00			1978	222222255
6	2500.1	1.842	1.665	27.731	36.952	45.760	34.667		2.54	160.78	2.83	40.40	0.00	0.002	0.007	2471	252222222
5	3000.8	1.682	1.461	27.754	36.986	45.805	34.677	34.677	2.92	161.28	2.72	39.50	0.00			2962	222222255
4	3502.3	1.524	1.257	27.775	37.018	45.848	34.685	34.685	3.30	159.05	2.66	38.60	0.00	0.003		3453	222222225
3	4005.6	1.404	1.087	27.791	37.044	45.883	34.690	34.691	3.71	151.64	2.57	37.30	0.00			3945	222222255
2	4506.1	1.433	1.060	27.794	37.048	45.889	34.692	34.694	3.78	149.00	2.55	37.10	0.00	0.001		4433	222222225
1	4786.4	1.463	1.056	27.795	37.050	45.890	34.693	34.692	3.78	149.10	2.53	36.60	0.00	0.001		4706	222222225

CRUISE: MW 893 STA: 160 DATE (D/M/Y): 24- 4-89 TIME: 0015 LAT: 9 29.46 N LONG: 128 40.04 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24048E-04 1/S SOUND SPEED= 1502.3 M/S Depth= 4601 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.650	34.619	4.52	26.650	22.544	30.816	38.735	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.650	34.619	4.52	26.650	22.544	30.816	38.735	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.648	34.611	5.11	26.644	22.540	30.813	38.732	0.106	0.1	-1.35	-0.004	10.00	1.155	20.0
30	26.639	34.611	5.07	26.632	22.544	30.816	38.736	0.159	0.2	-3.96	0.025	29.91	1.998	30.0
40	26.593	34.613	5.07	26.584	22.560	30.834	38.755	0.212	0.4	-1.76	0.129	15.36	1.432	40.0
50	26.551	34.609	4.68	26.540	22.571	30.846	38.768	0.265	0.7	-318.28	-4.655	2209.14	17.175	50.0
100	12.714	34.761	0.34	12.701	26.268	34.972	43.297	0.389	1.6	-30.88	1.471	173.52	4.814	99.8
125	12.267	34.780	0.29	12.251	26.371	35.093	43.434	0.432	2.1	-18.09	-0.256	82.01	3.309	124.7
150	11.885	34.769	0.33	11.866	26.435	35.173	43.528	0.474	2.6	-15.46	-0.414	64.38	2.932	149.6
200	11.160	34.739	0.48	11.135	26.548	35.315	43.699	0.552	4.0	-13.35	-0.517	49.02	2.558	199.3
250	10.673	34.722	0.55	10.643	26.624	35.411	43.814	0.627	5.8	-8.45	-0.245	31.66	2.056	249.1
300	10.127	34.705	0.20	10.092	26.706	35.517	43.941	0.699	7.8	-10.00	-0.409	34.37	2.142	298.8
350	9.738	34.684	0.13	9.697	26.757	35.585	44.025	0.767	10.0	-8.40	-0.454	26.20	1.871	348.5
400	9.231	34.652	0.12	9.186	26.816	35.667	44.128	0.834	12.6	-10.89	-0.696	30.90	2.031	398.2
450	8.630	34.615	0.13	8.582	26.883	35.761	44.248	0.898	15.4	-11.79	-0.727	32.59	2.086	447.9
500	8.065	34.584	0.11	8.013	26.946	35.849	44.360	0.959	18.3	-11.98	-0.547	35.18	2.167	497.6
600	6.911	34.549	0.11	6.854	27.084	36.041	44.602	1.072	24.6	-10.06	-0.212	31.70	2.057	596.8
700	6.052	34.540	0.14	5.989	27.191	36.189	44.790	1.174	31.4	-8.12	0.049	28.23	1.941	696.1
800	5.326	34.544	0.35	5.258	27.284	36.318	44.952	1.266	38.4	-5.58	0.032	18.85	1.587	795.3
900	4.895	34.552	0.71	4.822	27.341	36.397	45.051	1.351	45.8	-4.95	0.080	17.24	1.517	894.4
1000	4.459	34.559	0.94	4.379	27.395	36.473	45.148	1.431	53.6	-3.68	0.097	13.27	1.331	993.4
1200	3.790	34.579	1.34	3.700	27.482	36.595	45.302	1.579	70.2	-3.16	0.082	11.25	1.226	1191.4
1400	3.254	34.596	1.58	3.151	27.549	36.690	45.424	1.713	87.9	-2.49	0.084	9.15	1.105	1389.2
1600	2.831	34.612	1.82	2.716	27.601	36.765	45.521	1.836	106.6	-2.10	0.095	8.17	1.045	1586.8
1800	2.443	34.632	1.93	2.317	27.651	36.837	45.612	1.949	126.1	-1.71	0.078	6.71	0.947	1784.2
2000	2.171	34.644	2.17	2.032	27.684	36.885	45.675	2.053	146.3	-1.23	0.070	5.13	0.827	1981.4
2200	1.981	34.658	2.37	1.827	27.711	36.924	45.724	2.151	167.4	-0.76	0.049	3.33	0.667	2178.4
2400	1.885	34.664	2.51	1.716	27.725	36.943	45.749	2.246	189.7	-0.45	0.026	1.96	0.512	2375.2
2600	1.822	34.668	2.62	1.636	27.734	36.957	45.767	2.340	213.6	-0.38	0.018	1.61	0.464	2571.8
2800	1.754	34.672	2.74	1.551	27.744	36.971	45.785	2.433	239.2	-0.46	0.022	2.00	0.517	2768.3
3000	1.671	34.676	2.89	1.451	27.754	36.987	45.806	2.525	266.3	-0.51	0.023	2.25	0.549	2964.6
3200	1.597	34.681	3.06	1.358	27.764	37.002	45.827	2.615	294.8	-0.40	0.013	1.69	0.476	3160.7
3400	1.538	34.684	3.21	1.281	27.772	37.014	45.843	2.704	324.7	-0.33	0.013	1.48	0.444	3356.6
3600	1.496	34.686	3.34	1.219	27.778	37.024	45.856	2.792	356.2	-0.36	0.008	1.55	0.455	3552.4
3800	1.434	34.688	3.50	1.138	27.786	37.036	45.872	2.879	389.2	-0.35	0.014	1.64	0.469	3747.9
4000	1.404	34.691	3.65	1.087	27.791	37.044	45.883	2.966	423.7	-0.23	0.014	1.22	0.403	3943.3
4200	1.406	34.692	3.73	1.068	27.794	37.048	45.888	3.053	460.0	-0.06	0.004	0.32	0.207	4138.6
4400	1.420	34.693	3.77	1.059	27.795	37.050	45.890	3.141	498.5	-0.02	0.002	0.12	0.126	4333.6
4600	1.440	34.693	3.78	1.056	27.795	37.050	45.891	3.230	539.6	-0.02	0.002	0.12	0.000	4528.5
4649	1.446	34.694	3.76	1.055	27.796	37.050	45.891	3.252	550.0	-0.02	0.003	0.12	0.000	4576.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.0	26.638	26.636	22.543	30.816	38.735	34.612	34.610	4.97	2.23	0.33	0.38	0.02	0.000	0.000	6	222222255
23	47.3	14.211	14.204	25.885	34.534	42.807	34.664	34.598	0.49	21.62	2.34	28.69	0.21	0.000	0.000	47	222222255
22	72.7	12.887	12.877	26.226	34.924	43.242	34.752	34.750	0.32	25.88	2.39	33.35	0.35	0.000	0.000	72	222222255
21	97.8	12.315	12.302	26.350	35.070	43.409	34.766	34.764	0.34	27.00	2.39	34.17	0.03	0.000	0.000	97	222222255
20	121.9	11.829	11.813	26.456	35.195	43.552	34.782	34.766	0.29	28.32	2.45	34.69	0.01	0.000	0.000	121	222222255
19	146.9	11.583	11.564	26.490	35.240	43.606	34.766	34.762	0.41	29.23	2.43	34.59	0.01	0.000	0.000	146	222222255
18	195.7	10.910	10.886	26.589	35.367	43.760	34.734	34.734	0.38	31.47	2.50	35.29	0.01	0.000	0.000	194	222222255
17	247.0	10.454	10.425	26.664	35.461	43.871	34.724	34.714	0.42		2.54	35.89	0.01	0.000	0.000	245	222522255
16	295.8	10.027	9.993	26.716	35.531	43.960	34.696	34.698	0.16	36.13	2.70	36.89	0.01	0.000	0.000	293	222222255
15	396.4	9.088	9.045	26.841	35.698	44.165	34.655	34.646	0.13	43.04	2.87	37.60	0.00	0.000	0.000	393	222222255
14	497.6	7.976	7.925	26.959	35.867	44.381	34.585	34.584	0.09	54.61	3.06	38.60	0.00	0.000	0.000	494	222222255
13	595.8	6.746	6.690	27.097	36.062	44.631	34.537	34.547	0.13		3.23	41.60	0.00	0.000	0.000	591	222522255
12	698.0	6.017	5.955	27.196	36.197	44.798	34.542	34.540	0.14	78.15	3.33	44.30	0.00	0.000	0.000	692	222222255
11	797.3	5.281	5.214	27.288	36.324	44.960	34.542	34.542	0.37	86.48	3.35	45.80	0.00	0.000	0.000	791	222222255
10	998.9	4.448	4.369	27.396	36.475	45.150	34.559	34.558	0.97	100.08	3.23	44.70	0.00	0.000	0.000	990	222222255
9	1248.9	3.654	3.560	27.499	36.619	45.333	34.583	34.584	1.40	116.62	3.14	43.70	0.00	0.000	0.000	1238	222222255
8	1498.0	3.028	2.920	27.575	36.729	45.474	34.602	34.603	1.72	131.14	3.06	42.90	0.00	0.000	0.000	1484	222222255
7	2000.5	2.142	2.003	27.687	36.890	45.681	34.645		2.21	153.37	2.93	41.70	0.00	0.000	0.000	1979	252222255
6	2500.9	1.849	1.672	27.730	36.951	45.759	34.667	34.665	2.58	160.07	2.83	40.40	0.00	0.000	0.000	2472	222222255
5	3002.4	1.663	1.443	27.754	36.988	45.808	34.676	34.677	2.93		2.73	39.50	0.00	0.000	0.000	2964	222522255
4	3503.2	1.515	1.248	27.776	37.020	45.850	34.686	34.686	3.30	157.63	2.65	38.50	0.00	0.000	0.000	3454	222222255
3	4003.8	1.400	1.084	27.792	37.045	45.884	34.692	34.694	3.67	150.42	2.56	37.20	0.00	0.000	0.000	3944	222222255
2	4506.6	1.431	1.058	27.795	37.050	45.890	34.693	34.694	3.74	148.29	2.54	37.00	0.00	0.000	0.000	4434	222222255
1	4651.6	1.446	1.055	27.794	37.049	45.890	34.692	34.694	3.74	148.49	2.54	36.90	0.00	0.000	0.000	4575	222222255

CRUISE: MW 893 STA: 161 DATE (D/M/Y): 24- 4-89 TIME: 0840 LAT: 9 29.98 N LONG: 127 50.10 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1501.8 M/S Depth= 4610 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.709	34.648	4.50	26.709	22.547	30.818	38.735	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.709	34.648	4.50	26.708	22.547	30.818	38.735	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.722	34.644	5.05	26.717	22.541	30.811	38.729	0.106	0.1	0.05	-0.011	-0.56	-0.274	20.0
30	26.725	34.644	4.98	26.718	22.541	30.811	38.729	0.159	0.2	-0.44	-0.008	3.13	0.646	30.0
40	26.725	34.643	4.92	26.716	22.542	30.812	38.729	0.212	0.4	-22.01	0.447	171.86	4.788	40.0
50	19.605	34.773	3.53	19.596	24.695	33.161	41.261	0.260	0.7	-946.57	-32.022	5370.84	26.768	50.0
100	12.769	34.741	0.48	12.755	26.242	34.945	43.268	0.369	1.5	-35.81	0.868	185.84	4.979	99.8
125	12.169	34.753	0.59	12.153	26.369	35.095	43.440	0.413	2.0	-17.87	-0.252	77.12	3.208	124.7
150	11.767	34.743	0.56	11.748	26.438	35.180	43.540	0.454	2.5	-13.87	0.669	74.00	3.142	149.6
200	11.140	34.746	0.43	11.115	26.558	35.326	43.710	0.532	3.9	-11.94	-0.395	45.09	2.453	199.3
250	10.639	34.727	0.33	10.609	26.634	35.423	43.827	0.606	5.6	-9.45	-0.359	33.88	2.126	249.1
300	10.252	34.711	0.19	10.217	26.689	35.495	43.914	0.678	7.6	-8.37	-0.386	28.18	1.939	298.8
350	9.779	34.690	0.16	9.739	26.754	35.580	44.019	0.747	9.9	-9.12	-0.407	30.16	2.006	348.5
400	9.288	34.661	0.13	9.243	26.814	35.662	44.120	0.814	12.5	-12.46	-0.718	36.94	2.220	398.2
450	8.639	34.624	0.09	8.591	26.888	35.765	44.252	0.878	15.3	-10.86	-0.557	32.08	2.069	447.9
500	8.086	34.594	0.09	8.034	26.951	35.853	44.363	0.939	18.2	-10.46	-0.519	30.10	2.004	497.5
600	6.944	34.549	0.13	6.887	27.079	36.035	44.595	1.052	24.5	-10.09	-0.210	31.99	2.066	596.8
700	6.065	34.540	0.22	6.003	27.189	36.187	44.787	1.154	31.3	-7.37	0.005	25.02	1.827	696.1
800	5.421	34.539	0.29	5.353	27.269	36.298	44.928	1.247	38.4	-5.53	0.049	19.04	1.594	795.2
900	4.905	34.548	0.53	4.831	27.336	36.392	45.045	1.333	45.9	-4.53	0.103	16.47	1.482	894.4
1000	4.542	34.557	0.90	4.462	27.385	36.459	45.130	1.415	53.8	-3.40	0.084	12.33	1.283	993.4
1200	3.881	34.576	1.27	3.790	27.470	36.579	45.282	1.566	70.7	-3.23	0.099	11.88	1.259	1191.4
1400	3.372	34.592	1.55	3.269	27.534	36.670	45.398	1.702	88.8	-2.58	0.084	9.48	1.124	1389.2
1600	2.886	34.609	1.83	2.771	27.593	36.755	45.508	1.827	107.9	-2.38	0.088	8.94	1.092	1586.8
1800	2.479	34.627	2.05	2.352	27.644	36.828	45.602	1.941	127.7	-1.96	0.097	7.84	1.023	1784.2
2000	2.174	34.645	2.21	2.035	27.684	36.885	45.675	2.046	147.9	-1.22	0.080	5.30	0.841	1981.4
2200	2.001	34.657	2.34	1.848	27.709	36.920	45.719	2.145	169.0	-0.71	0.042	3.05	0.637	2178.4
2400	1.897	34.664	2.50	1.728	27.724	36.941	45.747	2.240	191.5	-0.50	0.029	2.17	0.539	2375.2
2600	1.832	34.668	2.59	1.646	27.733	36.955	45.765	2.334	215.4	-0.41	0.019	1.74	0.481	2571.8
2800	1.763	34.672	2.72	1.559	27.743	36.970	45.784	2.427	241.1	-0.50	0.019	2.09	0.528	2768.3
3000	1.683	34.677	2.88	1.462	27.753	36.986	45.805	2.519	268.3	-0.48	0.024	2.16	0.537	2964.6
3200	1.610	34.680	3.04	1.371	27.763	37.000	45.824	2.610	296.9	-0.43	0.018	1.92	0.507	3160.7
3400	1.548	34.684	3.20	1.291	27.771	37.013	45.841	2.699	327.0	-0.40	0.017	1.84	0.495	3356.6
3600	1.495	34.687	3.36	1.219	27.779	37.025	45.857	2.787	358.5	-0.37	0.013	1.68	0.473	3552.4
3800	1.436	34.689	3.51	1.140	27.786	37.036	45.872	2.875	391.4	-0.40	0.011	1.79	0.489	3747.9
4000	1.400	34.692	3.67	1.083	27.792	37.045	45.884	2.961	425.8	-0.16	0.011	0.87	0.341	3943.3
4200	1.405	34.693	3.74	1.066	27.794	37.048	45.888	3.048	462.0	-0.05	0.004	0.29	0.196	4138.6
4400	1.421	34.693	3.77	1.060	27.795	37.050	45.890	3.136	500.5	-0.02	0.002	0.10	0.116	4333.6
4569	1.438	34.694	3.75	1.057	27.796	37.050	45.891	3.211	535.1	-0.02	0.002	0.10	0.000	4498.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.8	26.715	26.714	22.540	30.811	38.728	34.641	34.641	4.95	0.51	0.25	0.19	0.01	0.000	0.000	5	222222255
23	47.1	17.185	17.178	25.151	33.696	41.872	34.580	34.594	2.36	12.18	1.43	18.62	0.18	0.000	0.000	46	222222255
22	98.8	12.801	12.787	26.234	34.935	43.257	34.739	34.733	0.47	24.36	2.35	33.36	0.04	0.000	0.000	98	222222255
21	122.6	12.168	12.152	26.368	35.094	43.439	34.751	34.749	0.58	26.09	2.32	33.59	0.01	0.000	0.000	121	222222255
20	146.8	11.680	11.661	26.453	35.199	43.562	34.742	34.745	0.60	27.51	2.35	33.99	0.01	0.000	0.000	145	222222255
19	172.0	11.489	11.467	26.499	35.253	43.623	34.754	34.754	0.39	28.62	2.44	34.89	0.01	0.000	0.000	170	222222255
18	197.5	11.164	11.139	26.556	35.323	43.706	34.750	34.745	0.46	29.03	2.44	34.89	0.01	0.000	0.000	196	222222255
17	246.2	10.683	10.653	26.628	35.415	43.817	34.730	34.723	0.32	31.26	2.53	35.89	0.01	0.000	0.000	244	222222255
16	296.3	10.292	10.257	26.687	35.491	43.908	34.716	34.708	0.17	33.70	2.63	36.49	0.01	0.000	0.000	294	222222255
15	396.8	9.381	9.337	26.801	35.645	44.100	34.664	34.668	0.12	39.99	2.79	37.81	-0.01	0.000	0.000	394	222222255
14	497.4	8.171	8.120	26.938	35.837	44.343	34.595	34.596	0.08	51.36	3.01	38.71	-0.01	0.000	0.000	494	222222255
13	598.0	6.981	6.924	27.071	36.026	44.584	34.546	34.544	0.10	65.06	3.17	41.51	-0.01	0.000	0.000	593	222222255
12	696.5	6.113	6.050	27.185	36.181	44.778	34.543	34.541	0.23	73.49	3.23	44.61	-0.01	0.000	0.000	691	222222255
11	797.7	5.410	5.342	27.270	36.300	44.930	34.539	34.538	0.31	81.81	3.33	45.10	0.00	0.000	0.000	791	222222255
10	999.5	4.483	4.403	27.393	36.470	45.144	34.560	34.559	0.96	97.64	3.18	44.80	0.00	0.000	0.000	991	222222255
9	1246.6	3.671	3.577	27.496	36.616	45.329	34.582	34.580	1.40	114.39	3.10	43.60	0.00	0.000	0.000	1235	222222255
8	1499.7	3.084	2.975	27.569	36.720	45.463	34.602	34.596	1.73	126.27	3.01	42.80	0.00	0.000	0.000	1485	222222255
7	2000.3	2.187	2.048	27.684	36.884	45.673	34.645	34.643	2.19	151.64	2.89	41.70	0.00	0.000	0.000	1979	222222255
6	2500.7	1.861	1.683	27.729	36.949	45.757	34.667	34.666	2.54	157.22	2.78	40.40	0.00	0.000	0.000	2471	222222255
5	3003.7	1.678	1.457	27.754	36.987	45.806	34.677	34.677	2.90	160.47	2.67	39.50	0.00	0.000	0.000	2965	222222255
4	3403.8	1.541	1.284	27.773	37.015	45.844	34.685	34.684	3.22	155.80	2.61	38.70	0.00	0.000	0.000	3357	222222255
3	3803.1	1.432	1.136	27.786	37.036	45.873	34.689	34.690	3.54	154.58	2.55	37.60	0.00	0.000	0.000	3748	222222255
2	4207.0	1.405	1.066	27.794	37.048	45.888	34.692	34.694	3.74	148.49	2.49	37.00	0.00	0.000	0.000	4142	222222255
1	4571.2	1.438	1.057	27.795	37.049	45.890	34.693	34.695	3.77	145.45	2.49	37.00	0.00	0.000	0.000	4497	222222255

CRUISE: MW 893 STA: 162 DATE (D/M/Y): 24- 4-89 TIME: 1704 LAT: 9 29.98 N LONG: 127 0.21 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1502.2 M/S Depth= 4566 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.768	34.590	5.10	26.768	22.485	30.755	38.671	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.768	34.590	5.10	26.767	22.485	30.755	38.672	0.005	0.0	-0.45	0.000	0.00	0.000	1.0
20	26.767	34.585	4.95	26.763	22.483	30.752	38.670	0.107	0.1	-0.14	-0.027	0.61	0.285	20.0
30	26.769	34.585	4.91	26.762	22.483	30.752	38.669	0.161	0.2	-0.02	-0.029	-0.35	-0.215	30.0
40	26.772	34.585	4.94	26.762	22.483	30.752	38.669	0.214	0.4	-0.23	-0.016	1.47	0.442	40.0
50	26.752	34.585	4.72	26.741	22.490	30.760	38.677	0.268	0.7	-382.22	7.037	2871.70	19.573	50.0
100	12.937	34.730	0.52	12.923	26.200	34.896	43.214	0.401	1.6	-48.47	3.224	292.20	6.244	99.8
125	12.229	34.760	0.64	12.212	26.363	35.086	43.429	0.444	2.1	-21.23	-0.321	89.70	3.459	124.7
150	11.741	34.747	0.72	11.721	26.446	35.190	43.551	0.485	2.7	-12.15	-0.371	47.77	2.524	149.6
200	11.030	34.732	0.62	11.005	26.566	35.339	43.727	0.564	4.1	-11.78	0.065	52.44	2.645	199.4
250	10.513	34.719	0.50	10.483	26.650	35.444	43.853	0.637	5.8	-7.20	-0.251	26.04	1.864	249.1
300	10.135	34.705	0.25	10.100	26.705	35.516	43.940	0.708	7.8	-8.67	-0.430	28.31	1.943	298.8
350	9.572	34.673	0.14	9.532	26.776	35.611	44.058	0.776	10.0	-10.42	-0.570	32.04	2.067	348.5
400	9.143	34.651	0.12	9.099	26.829	35.684	44.148	0.842	12.6	-9.75	-0.545	28.87	1.962	398.2
450	8.537	34.615	0.18	8.489	26.897	35.779	44.270	0.905	15.3	-12.08	-0.763	32.79	2.092	447.9
500	7.988	34.589	0.14	7.937	26.961	35.868	44.382	0.966	18.2	-14.82	-0.846	40.04	2.311	497.6
600	6.879	34.555	0.13	6.822	27.093	36.052	44.615	1.077	24.5	-9.49	-0.193	29.92	1.998	596.9
700	5.955	34.542	0.31	5.893	27.205	36.208	44.812	1.178	31.1	-8.53	-0.084	27.15	1.903	696.1
800	5.312	34.544	0.56	5.245	27.286	36.321	44.955	1.269	38.1	-4.98	0.119	18.35	1.565	795.3
900	4.832	34.550	0.93	4.759	27.346	36.406	45.063	1.354	45.5	-4.40	0.072	15.35	1.431	894.4
1000	4.503	34.561	1.02	4.423	27.392	36.468	45.141	1.434	53.2	-3.23	0.070	11.41	1.234	993.4
1200	3.855	34.578	1.30	3.764	27.475	36.585	45.289	1.583	70.0	-2.89	0.072	10.27	1.171	1191.4
1400	3.320	34.594	1.58	3.217	27.541	36.679	45.409	1.719	88.0	-2.57	0.081	9.40	1.120	1389.2
1600	2.867	34.610	1.85	2.752	27.596	36.758	45.512	1.844	107.0	-2.13	0.083	8.08	1.038	1586.8
1800	2.499	34.626	1.99	2.372	27.642	36.825	45.598	1.958	126.8	-1.79	0.076	6.94	0.962	1784.2
2000	2.230	34.641	2.21	2.090	27.677	36.875	45.662	2.064	147.3	-1.21	0.075	5.17	0.831	1981.4
2200	2.022	34.656	2.33	1.868	27.707	36.917	45.715	2.164	168.7	-0.89	0.052	3.84	0.716	2178.4
2400	1.908	34.664	2.49	1.738	27.722	36.939	45.744	2.260	191.2	-0.46	0.026	2.00	0.517	2375.2
2600	1.846	34.668	2.59	1.659	27.732	36.953	45.762	2.354	215.3	-0.37	0.018	1.60	0.462	2571.8
2800	1.786	34.671	2.69	1.582	27.741	36.966	45.779	2.448	241.2	-0.48	0.021	2.06	0.525	2768.3
3000	1.711	34.675	2.84	1.489	27.750	36.981	45.799	2.541	268.6	-0.53	0.021	2.29	0.553	2964.6
3200	1.624	34.680	3.02	1.385	27.761	36.998	45.821	2.632	297.5	-0.45	0.019	2.00	0.516	3160.7
3400	1.559	34.683	3.18	1.301	27.770	37.011	45.839	2.722	327.7	-0.40	0.019	1.85	0.497	3356.6
3600	1.515	34.686	3.33	1.238	27.777	37.022	45.853	2.811	359.3	-0.32	0.013	1.46	0.442	3552.4
3800	1.463	34.688	3.46	1.167	27.783	37.032	45.867	2.899	392.6	-0.38	0.007	1.63	0.466	3748.0
4000	1.414	34.691	3.63	1.098	27.790	37.043	45.881	2.986	427.3	-0.26	0.014	1.32	0.420	3943.4
4200	1.409	34.692	3.73	1.071	27.793	37.047	45.887	3.073	463.6	-0.07	0.004	0.36	0.218	4138.6
4400	1.425	34.693	3.77	1.063	27.795	37.049	45.889	3.161	502.3	-0.02	0.001	0.11	0.121	4333.7
4600	1.446	34.693	3.76	1.061	27.795	37.049	45.890	3.251	543.4	-0.01	0.002	0.11	0.000	4528.6
4631	1.450	34.693	3.77	1.061	27.795	37.050	45.890	3.265	550.0	-0.01	0.001	0.11	0.000	4558.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	26.785	26.784	22.481	30.750	38.666	34.591	34.594	4.79	1.73	0.26	0.39	0.01	1.696	0.910	6	222222222
23	46.2	16.677	16.669	25.281	33.843	42.035	34.593	34.615	2.14	14.21	1.49	19.98	0.22	1.055	0.553	45	222222222
22	96.0	12.543	12.530	26.297	35.008	43.339	34.755	34.741	0.58	25.88	2.34	33.55	0.05	0.349	0.197	95	222222222
21	122.8	12.112	12.096	26.381	35.110	43.457	34.755	34.754	0.41	27.30	2.37	34.17	0.03	0.219	0.133	122	222222222
20	147.3	11.706	11.687	26.448	35.192	43.555	34.741	34.737	0.64	28.01	2.34	33.68	0.02	0.211	0.128	146	222222222
19	170.5	11.361	11.340	26.502	35.261	43.636	34.727	34.724	0.74	28.93	2.31	33.59	0.01	0.188		169	222222225
18	197.4	11.083	11.059	26.554	35.324	43.711	34.729	34.728	0.62	30.15	2.38	34.39	0.01	0.137		196	222222225
17	247.5	10.573	10.543	26.641	35.433	43.839	34.722	34.717	0.40	32.48	2.50	35.79	0.01	0.076		245	222222225
16	297.6	10.239	10.204	26.691	35.497	43.917	34.710	34.707	0.26	34.41	2.59	36.39	0.01	0.045		295	222222225
15	397.1	9.254	9.210	26.819	35.668	44.128	34.660	34.654	0.06	42.12	2.82	37.50	0.00	0.008		394	222222225
14	496.9	8.091	8.040	26.946	35.849	44.358	34.590	34.596	0.08	52.48	3.00	38.00	0.00			493	222222255
13	594.7	6.970	6.914	27.071	36.026	44.585	34.543	34.548	0.08	65.06	3.17	41.30	0.00	0.001	0.020	590	222222222
12	696.9	6.085	6.023	27.188	36.185	44.784	34.542	34.545	0.27	73.28	3.22	44.40	0.00			691	222222255
11	795.9	5.374	5.306	27.282	36.314	44.945	34.549	34.539	0.47	84.75	3.24	45.30	0.00	-0.003		789	222222225
10	999.2	4.479	4.399	27.394	36.472	45.145	34.561	34.557		98.96	3.15	44.40	0.00			991	225222255
9	1245.7	3.718	3.624	27.489	36.606	45.317	34.578	34.578	1.27	116.52	3.14	44.10	0.00	-0.001	0.000	1234	222222225
8	1496.9	3.088	2.979	27.570	36.720	45.463	34.603	34.600	1.67	130.12	3.03	42.90	0.00			1483	222222255
7	2000.1	2.218	2.078	27.679	36.877	45.665	34.642	34.641	2.20	151.24	2.88	41.70	0.00			1979	222222255
6	2500.5	1.870	1.692	27.728	36.947	45.755	34.666	34.665	2.53	160.57	2.78	40.40	0.00			2471	222222255
5	3002.5	1.712	1.490	27.751	36.982	45.799	34.676	34.673	2.88	161.89	2.71	39.70	0.00			2964	222222255
4	3502.7	1.536	1.269	27.775	37.018	45.847	34.686	34.683	3.29	158.14	2.59	38.60	0.00			3454	222222255
3	4003.7	1.414	1.097	27.791	37.043	45.881	34.691	34.691	3.66	152.25	2.51	37.30	0.00	-0.001	-0.002	3943	222222222
2	4506.6	1.436	1.062	27.794	37.048	45.888	34.692		3.78	149.21	2.49	37.10	0.00			4434	252222255
1	4634.5	1.450	1.061	27.794	37.049	45.889	34.693	34.695	3.75	149.41	2.49	37.20	0.00	0.000	-0.002	4558	222222252

CRUISE: MW 893 STA: 163 DATE (D/M/Y): 25- 4-89 TIME: 0129 LAT: 9 29.92 N LONG: 126 10.08 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1503.2 M/S Depth= 4664 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.092	34.612	4.60	27.092	22.399	30.660	38.569	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.092	34.612	4.60	27.091	22.399	30.660	38.569	0.016	0.0	-0.46	0.000	0.00	0.000	3.0
20	27.059	34.606	5.04	27.054	22.405	30.668	38.578	0.109	0.1	-9.97	0.156	77.73	3.220	20.0
30	26.991	34.605	4.97	26.984	22.427	30.691	38.603	0.163	0.3	-1.88	-0.274	9.24	1.110	30.0
40	26.985	34.606	5.02	26.975	22.431	30.695	38.607	0.217	0.4	-0.21	0.747	14.80	1.405	40.0
50	26.074	34.561	4.42	26.063	22.685	30.972	38.905	0.271	0.7	-1011.81	-29.543	6392.42	29.204	50.0
100	13.103	34.727	0.46	13.090	26.164	34.854	43.165	0.395	1.6	-38.32	2.840	235.86	5.610	99.8
125	12.350	34.759	0.37	12.334	26.338	35.057	43.396	0.440	2.1	-21.02	0.285	106.54	3.770	124.7
150	11.958	34.763	0.41	11.938	26.418	35.152	43.505	0.481	2.7	-13.13	-0.233	55.78	2.728	149.6
200	11.091	34.721	0.80	11.066	26.547	35.317	43.703	0.561	4.1	-14.18	-0.433	54.21	2.689	199.3
250	10.618	34.716	0.72	10.588	26.628	35.418	43.823	0.635	5.8	-9.63	-0.155	38.32	2.261	249.1
300	10.177	34.708	0.31	10.142	26.700	35.509	43.931	0.707	7.8	-9.25	-0.359	32.24	2.074	298.8
350	9.696	34.684	0.17	9.656	26.764	35.594	44.035	0.776	10.1	-10.26	-0.488	33.22	2.105	348.5
400	9.240	34.662	0.12	9.195	26.822	35.672	44.133	0.842	12.6	-10.07	-0.592	29.56	1.986	398.2
450	8.738	34.627	0.15	8.690	26.876	35.749	44.231	0.906	15.4	-11.05	-0.722	30.01	2.001	447.9
500	8.196	34.595	0.16	8.144	26.934	35.831	44.337	0.968	18.4	-10.63	-0.565	29.99	2.000	497.6
600	7.096	34.560	0.10	7.038	27.067	36.016	44.569	1.082	24.8	-10.63	-0.352	31.62	2.054	596.9
700	6.167	34.542	0.26	6.104	27.177	36.170	44.765	1.185	31.6	-7.73	0.015	26.75	1.889	696.1
800	5.494	34.544	0.47	5.426	27.263	36.289	44.915	1.279	38.8	-6.10	0.042	20.89	1.670	795.3
900	4.945	34.549	0.82	4.871	27.333	36.386	45.038	1.366	46.4	-5.03	0.100	17.96	1.548	894.4
1000	4.518	34.557	1.00	4.439	27.387	36.463	45.135	1.448	54.2	-3.94	0.135	14.88	1.409	993.5
1200	3.843	34.580	1.26	3.752	27.478	36.588	45.293	1.597	70.9	-3.07	0.086	11.08	1.216	1191.4
1400	3.313	34.594	1.59	3.210	27.542	36.680	45.411	1.732	88.8	-2.48	0.064	8.79	1.083	1389.2
1600	2.834	34.610	1.86	2.719	27.599	36.763	45.519	1.856	107.8	-2.37	0.092	8.96	1.093	1586.8
1800	2.455	34.627	2.10	2.329	27.646	36.831	45.606	1.969	127.4	-1.60	0.081	6.44	0.927	1784.2
2000	2.196	34.643	2.21	2.057	27.681	36.881	45.669	2.074	147.8	-1.21	0.073	5.14	0.828	1981.4
2200	2.002	34.656	2.35	1.849	27.708	36.919	45.718	2.173	169.0	-0.80	0.054	3.56	0.689	2178.4
2400	1.891	34.665	2.50	1.722	27.725	36.942	45.748	2.269	191.4	-0.49	0.028	2.13	0.533	2375.2
2600	1.831	34.668	2.60	1.645	27.733	36.955	45.765	2.363	215.4	-0.36	0.016	1.53	0.451	2571.9
2800	1.779	34.672	2.70	1.575	27.741	36.967	45.780	2.456	241.1	-0.44	0.020	1.92	0.506	2768.3
3000	1.698	34.676	2.86	1.477	27.752	36.983	45.802	2.549	268.5	-0.55	0.022	2.37	0.562	2964.6
3200	1.622	34.680	3.03	1.383	27.762	36.998	45.821	2.640	297.2	-0.43	0.019	1.90	0.504	3160.7
3400	1.554	34.683	3.17	1.297	27.770	37.011	45.839	2.729	327.4	-0.37	0.013	1.62	0.465	3356.6
3600	1.505	34.686	3.34	1.228	27.778	37.023	45.854	2.818	359.0	-0.36	0.013	1.61	0.464	3552.4
3800	1.463	34.689	3.48	1.166	27.784	37.033	45.867	2.906	392.2	-0.33	0.009	1.47	0.443	3748.0
4000	1.421	34.690	3.62	1.105	27.790	37.042	45.880	2.993	426.9	-0.22	0.010	1.09	0.381	3943.4
4200	1.413	34.692	3.71	1.075	27.793	37.047	45.886	3.080	463.4	-0.08	0.006	0.45	0.244	4138.6
4400	1.428	34.693	3.75	1.066	27.794	37.048	45.888	3.168	502.1	-0.02	0.002	0.14	0.138	4333.7
4600	1.447	34.693	3.77	1.062	27.795	37.049	45.890	3.258	543.2	-0.01	0.002	0.09	0.110	4528.6
4773	1.467	34.693	3.78	1.061	27.795	37.050	45.890	3.337	580.9	0.00	0.001	0.09	0.000	4697.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.2	27.053	27.052	22.405	30.667	38.578	34.604	34.602	5.09	1.83	0.27	9.10		1.699	0.932	7	222222522
23	47.0	17.032	17.025	25.049	33.602	41.785	34.401	34.486	2.67	12.18	1.36	25.40		1.297	0.641	46	222222522
22	95.6	12.585	12.572	26.297	35.007	43.336	34.766	34.763	0.29	26.69	2.43	43.70		0.245	0.130	95	222222522
21	122.7	12.086	12.070	26.397	35.126	43.474	34.769	34.765	0.36	27.91	2.39	43.90		0.197	0.119	121	222222522
20	143.8	11.700	11.682	26.455	35.200	43.563	34.749	34.748	0.56	28.83	2.36	43.50		0.175		142	222222525
19	171.3	11.249	11.228	26.520	35.283	43.663	34.724	34.725	0.74	29.94	2.36	43.10		0.170	0.104	170	222222522
18	198.1	10.894	10.870	26.585	35.363	43.757	34.725	34.720	0.71	31.26	2.38	43.60		0.128	0.082	196	222222522
17	244.6	10.467	10.438	26.655	35.451	43.862	34.716	34.715	0.55	33.09	2.50	44.80		0.083		243	222222525
16	296.3	10.109	10.074	26.710	35.521	43.946	34.705	34.702	0.25	36.34	2.62	46.00		0.036	0.035	294	222222522
15	397.6	9.243	9.199	26.822	35.671	44.132	34.662	34.659	0.13	42.83	2.81	47.30		0.006	0.013	394	222222522
14	496.4	8.257	8.205	26.927	35.822	44.325	34.598	34.599	0.16	51.87	2.96	49.20		0.001		493	222222525
13	595.7	7.111	7.054	27.067	36.015	44.568	34.563	34.565	0.16	65.57	3.19	50.90		0.004		591	222222525
12	696.5	6.163	6.101	27.176	36.170	44.765	34.540	34.540	0.27	74.10	3.23			0.002		691	222225525
11	796.5	5.465	5.397	27.267	36.294	44.921	34.543	34.544	0.51	83.13	3.23					790	222225555
10	997.2	4.547	4.467	27.386	36.459	45.130	34.559	34.556	1.04	97.54	3.17			0.007	0.007	989	222225522
9	1246.7	3.752	3.658	27.489	36.604	45.313	34.583	34.583	1.34	114.19	3.15					1235	222225555
8	1496.5	3.075	2.967	27.570	36.721	45.464	34.601	34.599	1.76	129.11	3.03			0.001		1482	222225525
7	2016.1	2.184	2.043	27.683	36.883	45.673	34.644	34.640	2.22	150.02	2.91					1995	222225555
6	2501.6	1.860	1.682	27.729	36.949	45.757	34.667	34.665	2.59	161.38	2.79			-0.002	-0.005	2472	222225522
5	3001.4	1.698	1.477	27.753	36.984	45.802	34.677	34.676	2.90	161.89	2.72	48.60				2963	222222555
4	3503.7	1.530	1.263	27.774	37.018	45.847	34.685	34.687	3.29	159.56	2.63	47.70		0.002	-0.001	3455	222222522
3	4005.6	1.418	1.101	27.790	37.043	45.881	34.691	34.691	3.66	152.76	2.55	46.50				3945	222222555
2	4304.9	1.419	1.069	27.794	37.048	45.887	34.692	34.692	3.76	150.42	2.52	46.20		-0.002	-0.002	4237	222222522
1	4774.2	1.467	1.061	27.794	37.049	45.889	34.693	34.696	3.79	150.52	2.51	46.10		-0.001		4694	222222525

CRUISE: MW 893 STA: 164 DATE (D/M/Y): 25- 4-89 TIME: 0955 LAT: 9 29.54 N LONG: 125 20.08 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24052E-04 1/S SOUND SPEED= 1502.1 M/S Depth= 4531 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.871	34.410	2.99	26.871	22.316	30.585	38.501	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.871	34.410	2.99	26.871	22.316	30.585	38.502	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.117	34.605	5.35	27.112	22.387	30.647	38.556	0.109	0.1	-1.25	0.386	16.20	1.471	20.0
30	27.101	34.609	5.31	27.095	22.395	30.657	38.566	0.164	0.3	-2.67	0.425	27.65	1.921	30.0
40	27.059	34.613	5.32	27.050	22.412	30.674	38.585	0.218	0.4	-3.68	0.331	33.57	2.117	40.0
50	27.043	34.616	5.25	27.031	22.421	30.684	38.594	0.273	0.7	-0.85	0.378	13.12	1.324	50.0
100	12.885	34.746	0.39	12.872	26.223	34.921	43.240	0.417	1.7	-43.99	2.410	253.68	5.820	99.8
125	12.193	34.759	0.39	12.176	26.369	35.094	43.438	0.460	2.2	-11.55	0.036	55.12	2.713	124.7
150	11.874	34.756	0.43	11.855	26.428	35.166	43.522	0.502	2.8	-20.71	-1.179	70.28	3.063	149.6
200	11.039	34.719	0.79	11.014	26.555	35.327	43.716	0.580	4.2	-9.67	-0.080	40.68	2.331	199.4
250	10.615	34.721	0.54	10.585	26.633	35.423	43.828	0.655	5.9	-8.36	-0.153	32.92	2.096	249.1
300	10.127	34.705	0.27	10.091	26.706	35.517	43.941	0.726	7.9	-9.13	-0.355	31.81	2.061	298.8
350	9.710	34.687	0.16	9.670	26.764	35.593	44.034	0.795	10.2	-8.57	-0.413	27.61	1.920	348.5
400	9.266	34.661	0.13	9.221	26.818	35.666	44.126	0.862	12.7	-10.03	-0.576	29.81	1.995	398.2
450	8.767	34.634	0.11	8.719	26.876	35.748	44.228	0.926	15.5	-10.47	-0.600	30.06	2.003	447.9
500	8.179	34.600	0.10	8.127	26.941	35.839	44.345	0.987	18.5	-13.13	-0.731	36.50	2.207	497.6
600	7.044	34.556	0.12	6.986	27.071	36.022	44.578	1.101	24.9	-10.90	-0.332	32.77	2.092	596.9
700	6.130	34.539	0.26	6.067	27.180	36.175	44.772	1.204	31.7	-7.71	0.079	27.70	1.923	696.1
800	5.432	34.544	0.60	5.363	27.271	36.300	44.929	1.297	38.8	-5.77	-0.064	17.84	1.543	795.3
900	4.949	34.548	0.92	4.875	27.331	36.385	45.036	1.384	46.3	-4.55	0.093	16.39	1.479	894.4
1000	4.532	34.554	1.06	4.452	27.384	36.458	45.130	1.466	54.2	-4.24	0.092	15.15	1.422	993.5
1200	3.869	34.577	1.30	3.777	27.473	36.582	45.285	1.616	71.1	-2.99	0.088	10.91	1.207	1191.5
1400	3.366	34.592	1.47	3.263	27.535	36.671	45.399	1.753	89.2	-2.42	0.085	9.03	1.098	1389.2
1600	2.913	34.610	1.62	2.798	27.592	36.752	45.503	1.878	108.4	-2.32	0.090	8.80	1.084	1586.8
1800	2.510	34.628	1.90	2.383	27.643	36.825	45.597	1.993	128.2	-1.81	0.096	7.38	0.993	1784.2
2000	2.189	34.645	2.14	2.050	27.683	36.883	45.672	2.098	148.6	-1.25	0.064	5.11	0.826	1981.4
2200	2.005	34.656	2.35	1.852	27.708	36.918	45.718	2.197	169.9	-0.85	0.048	3.61	0.694	2178.4
2400	1.897	34.663	2.51	1.727	27.723	36.941	45.746	2.293	192.3	-0.43	0.023	1.84	0.496	2375.2
2600	1.840	34.667	2.60	1.653	27.732	36.953	45.763	2.387	216.3	-0.36	0.017	1.54	0.453	2571.9
2800	1.780	34.671	2.70	1.576	27.740	36.966	45.780	2.481	242.1	-0.45	0.018	1.90	0.503	2768.3
3000	1.703	34.675	2.85	1.482	27.750	36.982	45.800	2.574	269.6	-0.52	0.022	2.26	0.550	2964.6
3200	1.630	34.679	3.01	1.391	27.760	36.996	45.819	2.665	298.4	-0.45	0.018	1.98	0.514	3160.7
3400	1.564	34.682	3.18	1.306	27.769	37.010	45.837	2.755	328.7	-0.40	0.017	1.81	0.491	3356.7
3600	1.513	34.685	3.34	1.236	27.776	37.021	45.852	2.844	360.4	-0.28	0.012	1.29	0.415	3552.4
3800	1.476	34.688	3.46	1.179	27.782	37.030	45.864	2.932	393.7	-0.35	0.013	1.61	0.464	3748.0
4000	1.433	34.690	3.61	1.116	27.789	37.040	45.878	3.020	428.6	-0.23	0.008	1.08	0.380	3943.4
4200	1.430	34.691	3.67	1.091	27.791	37.044	45.882	3.108	465.4	-0.09	0.003	0.41	0.234	4138.6
4400	1.438	34.692	3.71	1.077	27.792	37.046	45.885	3.196	504.3	-0.06	0.003	0.32	0.205	4333.7
4587	1.453	34.692	3.72	1.069	27.793	37.047	45.887	3.281	542.9	-0.04	0.003	0.32	0.000	4515.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.0	27.122	27.121	22.382	30.643	38.552	34.603	34.602	4.82	1.62	0.26	0.20	0.00	1.700	0.920	5	222222222
23	47.5	26.861	26.851	22.451	30.719	38.634	34.581	34.615	4.76	1.83	0.29	0.50	0.00	1.639	0.893	47	222222222
22	70.6	14.156	14.146	25.955	34.605	42.879	34.738	34.653	0.74	22.33	2.24	29.98	0.22	0.514	0.276	70	222222222
21	97.8	12.619	12.606	26.284	34.992	43.321	34.757	34.753	0.28	26.59	2.47	34.62	0.18	0.247	0.128	97	222222222
20	121.3	12.124	12.108	26.388	35.115	43.462	34.767	34.751	0.40	27.81	2.46	34.58	0.02	0.216	0.116	120	222222222
19	148.6	11.748	11.729	26.441	35.184	43.545	34.743	34.746	0.52	28.32	2.42	34.50	0.00	0.188	0.117	147	222222222
18	171.6	11.293	11.271	26.519	35.281	43.659	34.734	34.724	0.73	29.54	2.38	34.00	0.00	0.183		170	222222225
17	196.3	11.052	11.028	26.553	35.325	43.712	34.720	34.715	0.80	30.15	2.38	34.00	0.00	0.164		195	222222225
16	246.6	10.574	10.544	26.637	35.429	43.835	34.717	34.719	0.51	32.28	2.53	35.90	0.00	0.089		245	222222225
15	296.9	10.088	10.053	26.712	35.525	43.951	34.704	34.701	0.20	35.32	2.67	37.40	0.00	0.033		295	222222225
14	398.2	9.100	9.056	26.834	35.691	44.157	34.649	34.652	0.09	43.24	2.88	38.80	0.00	0.003		395	222222225
13	496.8	8.060	8.009	26.964	35.867	44.378	34.606	34.593	0.07	53.29	3.09	39.20	0.00	0.000		493	222222255
12	597.4	6.918	6.862	27.083	36.040	44.601	34.549	34.558	0.08	65.06	3.23	41.59	0.01	0.000		593	222222255
11	697.5	6.057	5.995	27.189	36.187	44.787	34.538	34.538	0.25	74.91	3.28	44.69	0.01	0.000		692	222222255
10	797.5	5.489	5.420	27.266	36.292	44.918	34.546	34.544	0.54	81.91	3.24	45.30	0.00	0.003	0.000	791	222222225
9	997.5	4.588	4.508	27.377	36.449	45.118	34.554	34.552	1.02	97.64	3.18	44.80	0.00	0.000	0.015	989	222222252
8	1496.6	3.116	3.007	27.564	36.713	45.455	34.599	34.598	1.53	130.63	3.10	43.70	0.00	0.004	0.002	1482	222222222
7	2000.5	2.214	2.074	27.680	36.879	45.666	34.643	34.643	2.10	153.47	2.93	42.11	-0.01	-0.003		1979	222222225
6	2503.2	1.866	1.688	27.728	36.948	45.755	34.666	34.665	2.56	160.78	2.80	40.51	-0.01	-0.003	-0.005	2474	222222222
5	3002.5	1.706	1.485	27.750	36.981	45.799	34.674	34.674	2.85	161.69	2.71	39.71	-0.01		0.001	2964	222222252
4	3404.7	1.562	1.304	27.770	37.011	45.838	34.683	34.683	3.20	158.04	2.63	38.81	-0.01	-0.003	-0.005	3358	222222222
3	3803.9	1.472	1.175	27.782	37.030	45.865	34.687	34.689	3.48	155.09	2.57	37.91	-0.01	-0.002	-0.002	3748	222222222
2	4204.6	1.430	1.091	27.791	37.044	45.882	34.691	34.692	3.68	151.54	2.52	37.41	-0.01	0.000	-0.002	4139	222222252
1	4589.2	1.452	1.068	27.792	37.047	45.886	34.691	34.692	3.73	149.81	2.50	37.21	-0.01	-0.001		4514	222222225

CRUISE: MW 893 STA: 165 DATE (D/M/Y): 25- 4-89 TIME: 1751 LAT: 9 30.08 N LONG: 124 29.72 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24074E-04 1/S SOUND SPEED= 1502.3 M/S Depth= 4551 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.862	34.335	4.86	26.862	22.263	30.533	38.450	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.862	34.335	4.86	26.862	22.263	30.533	38.451	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.081	34.581	5.04	27.076	22.380	30.642	38.552	0.111	0.1	-1.60	1.273	34.61	2.149	20.0
30	27.055	34.586	5.02	27.048	22.392	30.655	38.566	0.165	0.3	-3.80	0.175	31.71	2.057	30.0
40	27.025	34.588	4.92	27.016	22.404	30.667	38.579	0.220	0.4	-2.47	-0.225	14.55	1.393	40.0
50	26.466	34.576	4.37	26.455	22.573	30.850	38.775	0.274	0.7	-964.90	-7.611	6497.05	29.438	50.0
100	12.608	34.758	0.36	12.595	26.287	34.995	43.324	0.392	1.6	-35.00	2.073	203.47	5.210	99.8
125	12.123	34.763	0.40	12.106	26.386	35.113	43.460	0.435	2.0	-18.20	-0.217	77.04	3.206	124.7
150	11.712	34.758	0.40	11.692	26.460	35.204	43.566	0.475	2.6	-9.59	-0.246	39.87	2.306	149.6
200	11.129	34.736	0.55	11.104	26.551	35.320	43.704	0.554	4.0	-11.79	-0.400	44.31	2.431	199.3
250	10.585	34.716	0.64	10.555	26.634	35.426	43.832	0.628	5.7	-8.25	-0.238	30.98	2.033	249.1
300	10.221	34.708	0.23	10.186	26.693	35.500	43.920	0.700	7.7	-9.03	-0.368	31.24	2.041	298.8
350	9.730	34.684	0.15	9.690	26.758	35.586	44.027	0.769	10.0	-9.96	-0.549	30.88	2.030	348.5
400	9.265	34.657	0.13	9.221	26.814	35.663	44.123	0.836	12.6	-9.34	-0.525	27.92	1.930	398.2
450	8.721	34.626	0.11	8.672	26.878	35.751	44.234	0.900	15.4	-12.93	-0.702	37.73	2.243	447.9
500	8.105	34.591	0.12	8.054	26.945	35.846	44.356	0.961	18.3	-13.21	-0.714	36.85	2.217	497.6
600	7.068	34.553	0.14	7.010	27.066	36.016	44.570	1.075	24.7	-10.86	-0.241	34.36	2.141	596.9
700	6.247	34.549	0.27	6.183	27.173	36.162	44.753	1.178	31.5	-6.17	0.037	21.77	1.704	696.1
800	5.561	34.544	0.56	5.492	27.256	36.278	44.901	1.273	38.7	-6.59	-0.072	20.64	1.659	795.3
900	5.053	34.549	0.81	4.978	27.320	36.369	45.015	1.361	46.4	-4.48	0.075	15.85	1.454	894.4
1000	4.636	34.558	0.97	4.556	27.375	36.444	45.111	1.444	54.4	-4.73	0.101	16.95	1.503	993.4
1200	3.926	34.576	1.25	3.834	27.466	36.572	45.273	1.596	71.4	-3.31	0.089	11.98	1.264	1191.4
1400	3.379	34.592	1.55	3.275	27.534	36.669	45.397	1.733	89.6	-2.54	0.074	9.23	1.110	1389.2
1600	2.934	34.607	1.83	2.819	27.587	36.747	45.497	1.859	108.9	-2.40	0.085	8.95	1.092	1586.8
1800	2.514	34.628	1.93	2.387	27.642	36.824	45.596	1.974	128.9	-1.60	0.099	6.79	0.952	1784.2
2000	2.203	34.645	2.14	2.064	27.682	36.882	45.670	2.080	149.4	-1.46	0.078	6.03	0.897	1981.4
2200	1.996	34.657	2.36	1.842	27.709	36.920	45.720	2.179	170.6	-0.87	0.044	3.60	0.693	2178.4
2400	1.895	34.663	2.50	1.725	27.723	36.941	45.747	2.275	193.0	-0.43	0.023	1.83	0.495	2375.2
2600	1.835	34.668	2.61	1.649	27.733	36.955	45.764	2.369	217.0	-0.32	0.016	1.36	0.426	2571.9
2800	1.779	34.671	2.71	1.575	27.740	36.966	45.780	2.463	242.8	-0.45	0.020	1.94	0.509	2768.3
3000	1.709	34.675	2.85	1.488	27.750	36.981	45.799	2.555	270.2	-0.50	0.023	2.22	0.544	2964.6
3200	1.623	34.679	3.03	1.384	27.761	36.998	45.821	2.647	299.1	-0.46	0.019	2.04	0.521	3160.7
3400	1.565	34.683	3.17	1.307	27.769	37.010	45.837	2.736	329.3	-0.35	0.012	1.56	0.456	3356.6
3600	1.512	34.686	3.33	1.235	27.777	37.022	45.853	2.825	361.1	-0.32	0.015	1.53	0.452	3552.4
3800	1.478	34.688	3.46	1.181	27.782	37.030	45.864	2.914	394.4	-0.32	0.011	1.47	0.443	3748.0
4000	1.433	34.690	3.60	1.116	27.789	37.040	45.877	3.002	429.4	-0.23	0.008	1.08	0.380	3943.4
4200	1.429	34.691	3.68	1.090	27.791	37.044	45.883	3.089	466.0	-0.08	0.003	0.37	0.222	4138.6
4400	1.442	34.692	3.71	1.080	27.792	37.046	45.885	3.178	505.0	-0.05	0.002	0.25	0.184	4333.7
4600	1.458	34.692	3.73	1.072	27.793	37.047	45.887	3.268	546.4	-0.03	0.001	0.25	0.000	4528.6
4615	1.459	34.692	3.73	1.072	27.793	37.047	45.887	3.275	549.6	-0.03	0.001	0.25	0.000	4543.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	27.086	27.084	22.372	30.634	38.544	34.574	34.568	4.84	1.83	0.25	0.39	0.01	1.722	0.907	7	222222222
23	47.2	16.193	16.185	25.406	33.985	42.192	34.610	34.600	1.96	15.23	1.65	21.30	0.20	0.961	0.492	46	222222222
22	97.1	12.464	12.451	26.329	35.043	43.377	34.776	34.762	0.24	26.90	2.43	34.29	0.21	0.228	0.124	96	222222222
21	121.6	12.009	11.993	26.405	35.138	43.489	34.761	34.756	0.40	27.91	2.40	34.30	0.00	0.208	0.136	120	222222222
20	147.6	11.674	11.655	26.466	35.212	43.575	34.757	34.757	0.37	29.03	2.43	34.70	0.00	0.152		146	222222225
19	171.9	11.377	11.355	26.508	35.266	43.641	34.739	34.736	0.54	29.54	2.40	34.40	0.00	0.151		170	222222225
18	198.1	11.049	11.024	26.563	35.335	43.723	34.732	34.729	0.57	30.65	2.42	34.60	0.00	0.126		196	222222225
17	247.7	10.578	10.548	26.637	35.428	43.834	34.717	34.716	0.53	32.48	2.47	35.30	0.00	0.093	0.064	246	222222222
16	297.4	10.159	10.124	26.702	35.511	43.934	34.706	34.706	0.14	35.42	2.64	37.00	0.00	0.031		295	222222225
15	398.2	9.338	9.294	26.808	35.654	44.111	34.665	34.660	0.06	41.82	2.82	37.60	0.00	0.007	0.015	395	222222222
14	497.8	8.263	8.211	26.928	35.822	44.324	34.599	34.603	0.07	51.66	3.01	38.40	0.00	0.001		494	222222225
13	598.1	7.153	7.095	27.056	36.002	44.553	34.556	34.556	0.09	63.44	3.17	41.00	0.00	0.002		593	222222225
12	746.6	5.973	5.906	27.208	36.210	44.814	34.548	34.546	0.29	75.82	3.25	44.90	0.00			741	222222255
11	996.7	4.660	4.579	27.372	36.440	45.106	34.558	34.558	0.96	96.12	3.19	44.80	0.00	0.001		988	222222225
10	1246.9	3.766	3.671	27.487	36.601	45.310	34.581	34.581	1.36	115.10	3.13	44.00	0.00			1236	222222255
9	1496.6	3.164	3.055	27.560	36.707	45.445	34.599	34.597	1.66	128.40	3.04	42.90	0.00	0.003		1482	222222225
8	1773.1	2.564	2.439	27.635	36.814	45.583	34.624	34.624	1.93	143.32	2.99	42.30	0.00			1755	222222255
7	2100.7	2.100	1.954	27.696	36.901	45.695	34.651	34.650	2.23	155.80	2.90	41.40	0.00	0.001	0.005	2078	222222222
6	2550.3	1.852	1.670	27.730	36.950	45.759	34.666	34.667	2.57	160.57	2.79	40.20	0.00			2520	222222255
5	3002.7	1.713	1.491	27.750	36.980	45.798	34.674	34.674	2.84	161.28	2.73	39.50	0.00	0.024	0.032	2964	222222222
4	3447.0	1.555	1.293	27.771	37.012	45.840	34.683	34.684	3.19	159.35	2.65	38.60	0.00			3399	222222255
3	3904.4	1.447	1.140	27.786	37.036	45.873	34.689	34.689	3.56	153.47	2.58	37.60	0.00		-0.002	3846	222222252
2	4356.5	1.438	1.082	27.791	37.045	45.884	34.691	34.692	3.69	151.13	2.54	37.10	0.00			4288	222222255
1	4616.8	1.459	1.072	27.792	37.046	45.886	34.691	34.695	3.70	150.42	2.54	37.00	0.00	0.001		4541	222222225

CRUISE: MW 893 STA: 166 DATE (D/M/Y): 26- 4-89 TIME: 0131 LAT: 9 29.65 N LONG: 123 40.03 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24056E-04 1/S SOUND SPEED= 1502.5 M/S Depth= 4532 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.204	34.439	4.69	27.204	22.232	30.493	38.401	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.204	34.439	4.69	27.204	22.232	30.493	38.401	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.186	34.549	5.20	27.182	22.322	30.582	38.490	0.111	0.1	-3.87	0.515	38.33	2.262	20.0
30	27.130	34.544	5.16	27.123	22.337	30.598	38.507	0.166	0.3	-6.10	1.292	68.81	3.031	30.0
40	27.101	34.561	5.06	27.092	22.360	30.622	38.532	0.221	0.5	-19.49	-1.155	125.95	4.100	40.0
50	20.626	34.437	3.54	20.616	24.170	32.608	40.684	0.272	0.7	-985.72	3.062	6372.65	29.166	50.0
100	12.598	34.751	0.36	12.585	26.283	34.992	43.321	0.384	1.5	-35.49	1.887	201.89	5.191	99.8
125	12.049	34.761	0.35	12.032	26.398	35.129	43.478	0.427	2.0	-20.30	-0.254	90.59	3.477	124.7
150	11.628	34.756	0.36	11.609	26.474	35.222	43.587	0.467	2.6	-16.15	-0.643	62.86	2.897	149.6
200	11.058	34.739	0.45	11.033	26.566	35.338	43.725	0.544	3.9	-11.28	-0.399	41.72	2.360	199.3
250	10.571	34.721	0.37	10.541	26.641	35.433	43.839	0.618	5.6	-8.12	-0.230	30.39	2.014	249.1
300	10.168	34.706	0.17	10.133	26.700	35.509	43.932	0.689	7.6	-8.83	-0.402	29.58	1.987	298.8
350	9.749	34.689	0.19	9.709	26.758	35.586	44.026	0.758	9.9	-8.25	-0.408	26.46	1.879	348.5
400	9.299	34.660	0.11	9.255	26.811	35.659	44.117	0.825	12.5	-8.63	-0.461	26.33	1.875	398.2
450	8.792	34.630	0.10	8.743	26.870	35.740	44.220	0.890	15.3	-12.24	-0.584	37.38	2.234	447.9
500	8.256	34.612	0.11	8.204	26.939	35.833	44.336	0.951	18.2	-10.48	-0.755	26.24	1.871	497.6
600	7.311	34.585	0.09	7.253	27.057	35.995	44.539	1.066	24.7	-8.91	-0.338	26.10	1.867	596.8
700	6.324	34.540	0.19	6.260	27.156	36.141	44.729	1.171	31.7	-7.36	0.011	25.70	1.852	696.1
800	5.693	34.547	0.38	5.624	27.242	36.258	44.875	1.268	39.0	-7.40	0.007	24.78	1.819	795.3
900	5.077	34.551	0.75	5.002	27.319	36.366	45.012	1.356	46.7	-5.04	0.045	17.11	1.511	894.4
1000	4.615	34.560	0.96	4.534	27.379	36.449	45.117	1.439	54.7	-4.01	0.088	14.39	1.386	993.4
1200	3.913	34.575	1.32	3.821	27.466	36.573	45.275	1.591	71.8	-3.42	0.099	12.50	1.292	1191.4
1400	3.396	34.592	1.55	3.293	27.532	36.666	45.393	1.729	90.0	-2.39	0.079	8.82	1.085	1389.2
1600	2.956	34.607	1.81	2.840	27.586	36.744	45.493	1.855	109.3	-2.11	0.086	8.11	1.041	1586.8
1800	2.581	34.623	1.96	2.453	27.633	36.811	45.580	1.972	129.5	-1.82	0.077	7.09	0.973	1784.2
2000	2.277	34.640	2.11	2.137	27.672	36.868	45.652	2.080	150.5	-1.31	0.071	5.46	0.854	1981.4
2200	2.053	34.653	2.30	1.898	27.702	36.910	45.707	2.182	172.2	-1.09	0.064	4.71	0.793	2178.4
2400	1.925	34.662	2.48	1.755	27.720	36.936	45.740	2.279	194.9	-0.58	0.035	2.55	0.583	2375.2
2600	1.853	34.667	2.59	1.667	27.731	36.952	45.760	2.374	219.2	-0.39	0.021	1.73	0.480	2571.9
2800	1.808	34.670	2.68	1.604	27.738	36.962	45.774	2.468	245.1	-0.34	0.016	1.49	0.447	2768.3
3000	1.740	34.674	2.80	1.518	27.747	36.976	45.793	2.562	272.9	-0.54	0.023	2.33	0.558	2964.6
3200	1.657	34.678	2.97	1.417	27.758	36.993	45.814	2.654	302.1	-0.49	0.019	2.14	0.534	3160.7
3400	1.589	34.682	3.14	1.331	27.767	37.007	45.833	2.745	332.6	-0.34	0.013	1.51	0.449	3356.7
3600	1.546	34.685	3.26	1.268	27.774	37.017	45.846	2.835	364.7	-0.37	0.017	1.74	0.482	3552.4
3800	1.487	34.688	3.42	1.190	27.782	37.029	45.862	2.924	398.3	-0.37	0.013	1.71	0.478	3748.0
4000	1.448	34.690	3.56	1.130	27.787	37.038	45.875	3.012	433.4	-0.21	0.009	1.03	0.371	3943.4
4200	1.437	34.691	3.65	1.097	27.791	37.043	45.882	3.100	470.3	-0.11	0.005	0.56	0.274	4138.6
4400	1.448	34.692	3.70	1.086	27.792	37.045	45.884	3.189	509.3	-0.02	0.002	0.16	0.144	4333.7
4600	1.469	34.692	3.70	1.084	27.793	37.046	45.885	3.280	550.9	-0.01	0.003	0.16	0.000	4528.6
4627	1.472	34.692	3.68	1.083	27.793	37.046	45.885	3.292	556.7	-0.01	0.004	0.16	0.000	4554.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	27.183	27.181	22.320	30.579	38.487	34.545	34.503	5.22	1.73	0.29	0.19	0.01	1.688	0.983	6	222222222
23	46.5	16.596	16.588	25.512	34.074	42.265	34.869	34.532	2.31	14.11	1.57	18.92	0.18	1.117	0.556	46	222222222
22	97.5	12.455	12.442	26.318	35.033	43.367	34.761	34.761	0.36	27.10	2.46	33.84	0.16	0.244	0.125	96	222222222
21	122.1	11.991	11.975	26.415	35.148	43.499	34.769	34.762	0.38	28.01	2.47	34.49	0.01	0.193	0.107	121	222222222
20	147.4	11.540	11.521	26.488	35.239	43.608	34.753	34.755	0.39	29.74	2.51	34.89	0.01	0.134		146	222222225
19	172.5	11.236	11.215	26.541	35.305	43.685	34.748	34.742	0.39	30.65	2.50	34.99	0.01	0.116		171	222222225
18	197.6	10.949	10.925	26.584	35.360	43.751	34.736	34.733	0.42	31.77	2.53	35.29	0.01	0.094		196	222222225
17	247.0	10.527	10.497	26.644	35.438	43.847	34.716	34.720	0.33	33.39	2.59	36.10	0.00	0.066	0.046	245	222222222
16	297.6	10.133	10.098	26.707	35.517	43.941	34.707	34.702	0.19	35.93	2.70	37.00	0.00	0.030		295	222222225
15	397.6	9.272	9.228	26.815	35.664	44.123	34.660	34.663	0.10	42.63	2.87	37.80	0.00	0.008	0.005	394	222222222
14	497.8	8.345	8.293	26.946	35.836	44.335	34.639	34.623	0.14	50.85	3.07	38.80	0.00	0.001	0.015	494	222222222
13	595.7	7.296	7.238	27.057	35.996	44.540	34.583		0.09	62.32	3.24	40.70	0.00	0.006		591	252222225
12	695.6	6.187	6.124	27.173	36.165	44.759	34.539	34.539	0.24	74.50	3.30	44.00	0.00	0.002		690	222222225
11	797.4	5.655	5.585	27.247	36.265	44.883	34.547	34.544	0.39	81.00	3.32	45.20	0.00			791	222222255
10	997.4	4.646	4.565	27.375	36.444	45.110	34.559	34.556	0.97	96.63	3.24	44.60	0.00	0.007		989	222222225
9	1247.6	3.757	3.662	27.481	36.596	45.305	34.573	34.580	1.37	115.00	3.16	43.70	0.00			1236	222222255
8	1496.2	3.137	3.028	27.564	36.712	45.453	34.602	34.600	1.69	129.01	3.07	42.70	0.00	0.000		1482	222222255
7	1998.7	2.249	2.109	27.677	36.873	45.660	34.642	34.641	2.13	151.34	2.96	41.60	0.00			1977	222222255
6	2499.9	1.882	1.704	27.727	36.946	45.752	34.666	34.664	2.53	160.07	2.84	40.40	0.00	-0.002	-0.005	2471	222222222
5	3000.1	1.740	1.518	27.747	36.977	45.793	34.674	34.675	2.80	160.98	2.76	39.50	0.00			2962	222222255
4	3402.3	1.588	1.330	27.768	37.007	45.833	34.683	34.681	3.14	160.27	2.67	38.80	0.00	0.000		3356	222222255
3	3805.1	1.485	1.188	27.782	37.030	45.863	34.688	34.687	3.44	156.01	2.61	37.80	0.00			3749	222222255
2	4205.7	1.436	1.097	27.790	37.043	45.881	34.691	34.693	3.65	152.35	2.56	37.30	0.00	0.000	-0.002	4141	222222252
1	4628.9	1.473	1.084	27.792	37.045	45.884	34.691	34.692	3.67	151.95	2.54	37.20	0.00	0.001		4553	222222225

CRUISE: MW 893 STA: 167 DATE (D/M/Y): 26- 4-89 TIME: 0900 LAT: 9 29.60 N LONG: 122 50.09 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24054E-04 1/S SOUND SPEED= 1501.8 M/S Depth= 4440 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.090	34.570	4.25	27.090	22.367	30.629	38.539	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.090	34.570	4.25	27.090	22.367	30.629	38.539	0.005	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.109	34.554	4.96	27.104	22.351	30.613	38.522	0.110	0.1	0.44	0.479	5.14	0.829	20.0
30	27.131	34.583	4.95	27.124	22.366	30.627	38.536	0.164	0.3	2.38	8.189	127.14	4.120	30.0
40	27.085	34.619	4.77	27.076	22.408	30.670	38.580	0.219	0.4	-165.26	-5.326	1127.89	12.271	40.0
50	19.422	34.569	3.08	19.413	24.587	33.061	41.169	0.266	0.7	-623.20	9.460	4027.58	23.188	50.0
100	12.776	34.762	0.68	12.763	26.256	34.959	43.281	0.378	1.5	-36.72	0.050	174.62	4.828	99.8
125	12.130	34.741	0.71	12.114	26.367	35.095	43.442	0.421	2.0	-12.92	0.856	71.64	3.093	124.7
150	11.881	34.760	0.38	11.862	26.430	35.167	43.523	0.462	2.6	-8.60	-0.276	31.42	2.048	149.6
200	11.173	34.739	0.45	11.149	26.546	35.313	43.696	0.541	4.0	-12.73	-0.450	47.65	2.522	199.3
250	10.708	34.723	0.48	10.677	26.618	35.405	43.806	0.616	5.7	-9.64	-0.216	37.33	2.232	249.1
300	10.248	34.711	0.21	10.213	26.690	35.496	43.915	0.688	7.7	-7.17	-0.302	24.62	1.813	298.8
350	9.803	34.688	0.11	9.763	26.749	35.574	44.012	0.757	10.0	-10.04	-0.522	31.88	2.063	348.5
400	9.391	34.673	0.14	9.346	26.807	35.650	44.104	0.824	12.6	-10.03	-0.590	29.71	1.992	398.2
450	8.868	34.642	0.10	8.819	26.867	35.734	44.211	0.889	15.4	-9.58	-0.407	30.34	2.012	447.9
500	8.408	34.627	0.11	8.355	26.927	35.815	44.311	0.951	18.4	-10.02	-0.439	30.51	2.018	497.6
600	7.322	34.566	0.12	7.263	27.040	35.978	44.522	1.067	24.9	-11.20	-0.486	31.76	2.059	596.8
700	6.426	34.549	0.19	6.362	27.150	36.131	44.714	1.173	31.9	-7.26	-0.064	24.09	1.793	696.1
800	5.843	34.551	0.34	5.773	27.227	36.236	44.846	1.271	39.4	-6.02	-0.003	20.20	1.642	795.3
900	5.230	34.551	0.52	5.154	27.302	36.341	44.979	1.362	47.2	-5.28	0.084	18.94	1.590	894.4
1000	4.801	34.558	0.79	4.720	27.357	36.418	45.077	1.447	55.5	-4.57	-0.003	14.55	1.394	993.5
1200	4.010	34.574	1.09	3.918	27.456	36.557	45.254	1.602	72.9	-3.44	0.098	12.59	1.296	1191.4
1400	3.421	34.591	1.41	3.317	27.529	36.662	45.388	1.742	91.3	-2.75	0.090	10.19	1.166	1389.2
1600	2.953	34.609	1.65	2.838	27.587	36.745	45.495	1.868	110.7	-2.08	0.085	8.01	1.034	1586.8
1800	2.589	34.626	1.83	2.461	27.634	36.812	45.581	1.985	130.9	-1.96	0.085	7.67	1.012	1784.2
2000	2.231	34.642	2.16	2.091	27.677	36.875	45.662	2.092	151.7	-1.31	0.067	5.38	0.848	1981.4
2200	2.039	34.654	2.33	1.885	27.704	36.913	45.710	2.193	173.2	-0.87	0.051	3.75	0.708	2178.4
2400	1.926	34.662	2.48	1.756	27.720	36.936	45.740	2.289	195.9	-0.52	0.032	2.32	0.556	2375.2
2600	1.862	34.666	2.58	1.675	27.729	36.950	45.758	2.384	220.1	-0.36	0.019	1.56	0.456	2571.9
2800	1.819	34.670	2.65	1.614	27.737	36.961	45.772	2.479	246.2	-0.37	0.015	1.56	0.456	2768.3
3000	1.751	34.673	2.77	1.529	27.746	36.974	45.790	2.573	274.0	-0.50	0.021	2.16	0.537	2964.6
3200	1.662	34.678	2.95	1.422	27.757	36.992	45.813	2.666	303.3	-0.54	0.023	2.43	0.569	3160.7
3400	1.587	34.681	3.12	1.329	27.767	37.006	45.833	2.757	333.9	-0.41	0.016	1.84	0.496	3356.7
3600	1.538	34.685	3.27	1.261	27.774	37.018	45.847	2.846	365.9	-0.33	0.015	1.55	0.456	3552.4
3800	1.485	34.687	3.43	1.188	27.782	37.029	45.863	2.935	399.5	-0.39	0.013	1.78	0.488	3748.0
4000	1.449	34.690	3.57	1.132	27.787	37.038	45.874	3.024	434.6	-0.25	0.009	1.17	0.395	3943.4
4200	1.432	34.691	3.65	1.093	27.791	37.044	45.882	3.112	471.4	-0.10	0.006	0.51	0.261	4138.6
4400	1.449	34.692	3.69	1.087	27.792	37.045	45.884	3.201	510.4	-0.02	0.003	0.12	0.128	4333.7
4503	1.459	34.692	3.67	1.085	27.792	37.045	45.884	3.247	531.5	-0.02	0.002	0.12	0.000	4434.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.6	27.083	27.082	22.344	30.606	38.516	34.536	34.527	4.81	1.32	0.21	0.10	0.00	1.666	0.907	5	222222222
23	47.0	16.695	16.687	25.313	33.874	42.065	34.640	34.641	2.52	11.88	1.35	16.05	0.35	1.142	0.603	46	222222222
22	96.4	12.472	12.459	26.294	35.008	43.342	34.733	34.756	0.73	24.97	2.28	31.89	0.01	0.344	0.187	95	222222222
21	122.3	11.911	11.895	26.417	35.154	43.508	34.752	34.761	0.37	27.71	2.45	34.18	0.02	0.194		121	222222225
20	147.1	11.616	11.597	26.478	35.226	43.591	34.758	34.750	0.50	28.42	2.40	34.01	-0.01	0.172	0.114	146	222222222
19	172.9	11.267	11.245	26.558	35.320	43.699	34.778	34.742	0.44	29.54	2.44	34.61	-0.01	0.125		171	222222225
18	197.9	10.962	10.938	26.588	35.363	43.754	34.744	34.732	0.55	30.15	2.44	34.51	-0.01	0.117		196	222222225
17	247.6	10.413	10.384	26.678	35.477	43.889	34.734	34.711	0.37	32.68	2.53	36.01	-0.01	0.067		246	222222225
16	296.8	10.011	9.977	26.721	35.537	43.966	34.699	34.698	0.14	35.32	2.66	37.00	0.00	0.026		294	222222225
15	399.1	9.091	9.047	26.841	35.698	44.165	34.656	34.658	0.11	42.93	2.86	37.90	0.00	0.007		396	222222225
14	496.5	8.145	8.094	26.965	35.865	44.372	34.625	34.613	0.10	51.05	3.04	39.70	0.00	0.002		493	222222225
13	597.4	7.032	6.975	27.070	36.021	44.578	34.552	34.554	0.13	63.23	3.16	42.10	0.00	0.000		593	222222255
12	697.3	6.222	6.159	27.175	36.166	44.758	34.548	34.546	0.22	72.37	3.22	44.60	0.00			692	222222255
11	798.3	5.602	5.532	27.255	36.275	44.896	34.549	34.548	0.39	79.78	3.27	45.70	0.00	0.001	-0.005	792	222222222
10	997.1	4.658	4.577	27.371	36.439	45.104	34.555	34.556	0.95	94.70	3.18	45.00	0.00			989	222222255
9	1248.7	3.763	3.668	27.494	36.608	45.317	34.590	34.579	1.17	115.30	3.17	44.80	0.00	0.002	0.001	1237	222222222
8	1597.9	2.908	2.793	27.593	36.753	45.505	34.610	34.609	1.64	134.89	3.03	43.30	0.00			1582	222222255
7	1999.4	2.207	2.068	27.680	36.880	45.668	34.643	34.643	2.16	151.54	2.89	41.70	0.00	-0.002	0.005	1978	222222222
6	2398.8	1.915	1.745	27.720	36.937	45.742	34.662	34.664	2.47	159.05	2.80	40.60	0.00			2371	222222255
5	2801.2	1.810	1.606	27.738	36.963	45.774	34.671	34.670	2.67	160.88	2.75	40.10	0.00	0.011	-0.005	2766	222222222
4	3204.6	1.650	1.410	27.760	36.995	45.817	34.680	34.679	2.98	160.98	2.68	39.19	0.01			3162	222222255
3	3600.3	1.533	1.256	27.775	37.018	45.848	34.685	34.685	3.29	157.32	2.60	38.29	0.01	-0.001		3549	222222225
2	4003.6	1.447	1.129	27.787	37.038	45.874	34.689	34.691	3.58	152.86	2.50	37.29	0.01			3943	222222255
1	4505.6	1.459	1.085	27.792	37.045	45.884	34.691	34.691	3.67	151.44	2.49	37.19	0.01	0.000		4433	222222255

CRUISE: MW 893 STA: 168 DATE (D/M/Y): 26- 4-89 TIME: 1651 LAT: 9 30.04 N LONG: 122 0.13 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24073E-04 1/S SOUND SPEED= 1502.1 M/S Depth= 4476 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.328	34.613	5.08	27.328	22.323	30.579	38.483	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.328	34.613	5.08	27.328	22.323	30.579	38.483	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.326	34.609	4.93	27.321	22.323	30.578	38.483	0.110	0.1	-0.05	-0.028	-0.14	-0.134	20.0
30	27.327	34.609	4.92	27.320	22.323	30.578	38.483	0.165	0.3	-0.12	-0.009	0.76	0.319	30.0
40	27.329	34.607	4.85	27.320	22.321	30.577	38.481	0.220	0.5	-0.08	-0.010	0.44	0.242	40.0
50	27.328	34.608	4.74	27.316	22.324	30.579	38.484	0.276	0.7	-33.92	-1.958	221.28	5.433	50.0
100	13.776	34.717	0.83	13.762	26.019	34.884	42.971	0.429	1.8	-67.18	1.817	368.02	7.007	99.8
125	12.658	34.765	0.68	12.641	26.283	34.990	43.317	0.475	2.3	-32.15	-0.311	142.84	4.365	124.7
150	12.001	34.762	0.63	11.982	26.408	35.141	43.492	0.517	2.9	-12.09	0.394	65.26	2.950	149.6
200	11.228	34.741	0.50	11.203	26.537	35.302	43.683	0.597	4.3	-13.18	-0.562	47.89	2.528	199.4
250	10.797	34.726	0.60	10.767	26.605	35.387	43.785	0.672	6.1	-9.47	-0.236	36.50	2.206	249.1
300	10.379	34.713	0.66	10.343	26.669	35.469	43.884	0.745	8.1	-7.07	-0.217	25.95	1.860	298.9
350	9.952	34.696	0.17	9.912	26.730	35.549	43.980	0.815	10.4	-8.74	-0.470	27.69	1.922	348.6
400	9.458	34.668	0.12	9.413	26.791	35.632	44.083	0.883	13.0	-9.42	-0.558	28.07	1.935	398.3
450	8.923	34.632	0.11	8.874	26.851	35.715	44.190	0.949	15.9	-8.81	-0.331	28.92	1.964	447.9
500	8.500	34.616	0.10	8.447	26.905	35.788	44.281	1.012	18.9	-10.45	-0.544	30.51	2.017	497.6
600	7.291	34.566	0.11	7.233	27.045	35.984	44.529	1.129	25.5	-11.60	-0.341	36.01	2.192	596.9
700	6.377	34.552	0.17	6.312	27.158	36.141	44.727	1.234	32.4	-7.24	-0.082	23.44	1.768	696.1
800	5.638	34.542	0.39	5.569	27.245	36.264	44.883	1.330	39.8	-6.37	0.062	22.46	1.731	795.3
900	5.101	34.553	0.58	5.025	27.318	36.364	45.008	1.419	47.5	-4.52	0.058	15.86	1.454	894.4
1000	4.705	34.558	0.77	4.624	27.368	36.434	45.097	1.502	55.6	-4.18	0.074	14.64	1.397	993.5
1200	3.923	34.577	1.17	3.831	27.467	36.573	45.274	1.655	72.7	-3.31	0.087	11.95	1.263	1191.5
1400	3.345	34.594	1.44	3.241	27.539	36.675	45.405	1.792	90.8	-2.49	0.082	9.21	1.108	1389.3
1600	2.912	34.609	1.83	2.796	27.591	36.752	45.503	1.917	109.9	-2.26	0.086	8.56	1.068	1586.9
1800	2.544	34.624	2.04	2.416	27.637	36.817	45.588	2.032	129.9	-1.67	0.092	6.87	0.957	1784.2
2000	2.241	34.644	2.10	2.101	27.678	36.876	45.662	2.139	150.6	-1.59	0.070	6.30	0.917	1981.4
2200	2.016	34.656	2.36	1.862	27.707	36.917	45.716	2.239	172.0	-0.81	0.050	3.52	0.685	2178.5
2400	1.904	34.664	2.51	1.735	27.723	36.940	45.745	2.335	194.4	-0.46	0.029	2.06	0.525	2375.3
2600	1.850	34.668	2.60	1.664	27.731	36.952	45.761	2.429	218.5	-0.31	0.015	1.32	0.419	2571.9
2800	1.804	34.671	2.69	1.599	27.739	36.963	45.775	2.524	244.5	-0.43	0.016	1.76	0.485	2768.4
3000	1.730	34.675	2.82	1.508	27.748	36.978	45.795	2.617	272.1	-0.50	0.025	2.26	0.549	2964.7
3200	1.642	34.679	3.01	1.403	27.760	36.995	45.818	2.709	301.1	-0.43	0.019	1.93	0.507	3160.8
3400	1.578	34.683	3.17	1.320	27.769	37.009	45.835	2.799	331.5	-0.34	0.012	1.50	0.448	3356.7
3600	1.539	34.685	3.29	1.262	27.775	37.018	45.848	2.888	363.5	-0.32	0.014	1.50	0.447	3552.5
3800	1.489	34.688	3.44	1.191	27.782	37.029	45.862	2.977	397.0	-0.32	0.008	1.43	0.436	3748.0
4000	1.450	34.690	3.55	1.132	27.787	37.038	45.874	3.066	432.1	-0.25	0.009	1.21	0.401	3943.4
4200	1.446	34.691	3.64	1.106	27.790	37.042	45.880	3.154	469.1	-0.08	0.005	0.42	0.236	4138.7
4400	1.458	34.692	3.68	1.096	27.791	37.044	45.882	3.243	508.3	-0.02	0.001	0.11	0.122	4333.7
4547	1.474	34.692	3.68	1.095	27.792	37.044	45.883	3.310	538.7	-0.01	0.003	0.11	0.000	4477.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.0	27.351	27.349	22.314	30.569	38.473	34.610	34.611	4.78	1.52	0.23	0.09	0.01	1.661	0.871	5	222222222
23	46.3	21.268	21.260	24.062	32.480	40.537	34.524	34.511	3.50	7.00	0.86	8.57	0.13	1.387	0.736	46	222222222
22	96.8	12.899	12.886	26.238	34.935	43.253	34.770	34.764	0.72	24.97	2.23	32.07	0.03	0.372	0.230	96	222222222
21	121.3	12.119	12.103	26.380	35.108	43.455	34.756	34.754	0.72	27.20	2.28	32.78	0.02	0.283		120	222222225
20	146.0	11.886	11.867	26.431	35.168	43.524	34.763	34.771	0.47	28.42	2.36	33.99	0.01	0.195		145	222222225
19	171 8	11.301	11.280	26.526	35.287	43.665	34.744	34.741	0.49	30.25	2.43	34.59	0.01	0.135		170	222222225
18	196.1	11.074	11.050	26.560	35.330	43.717	34.734	34.734	0.54	30.96	2.43	34.48	0.02	0.128		194	222222225
17	247.9	10.603	10.573	26.637	35.428	43.833	34.724	34.719	0.59	32.18	2.45	34.98	0.02	0.096	0.063	246	222222222
16	297.5	10.273	10.238	26.684	35.489	43.907	34.708	34.710	0.66	33.49	2.46	35.18	0.02	0.083		295	222222225
15	396.9	9.176	9.132	26.834	35.687	44.150	34.664	34.649	0.14	43.85	2.83	36.58	0.02	0.008		394	222222225
14	497.0	8.096	8.045	26.948	35.849	44.359	34.593	34.596	0.10	53.08	3.03	37.70	0.00	0.000		493	222222255
13	598.4	7.027	6.970	27.082	36.033	44.589	34.566	34.556	0.13	65.06	3.18	41.20	0.00	0.004	0.009	594	222222222
12	796.2	5.520	5.451	27.259	36.284	44.909	34.542	34.541	0.44	82.21	3.23	45.20	0.00	0.004		790	222222225
11	997.7	4.615	4.535	27.379	36.449	45.117	34.560	34.560	0.82	97.95	3.27	45.30	0.00			989	222222255
10	1344.2	3.433	3.333	27.527	36.659	45.384	34.590	34.589	1.40	122.51	3.13	43.80	0.00			1332	222222255
9	1699.1	2.696	2.575	27.618	36.790	45.552	34.617	34.616	1.97	138.65	2.96	42.10	0.00			1682	222222255
8	1849.6	2.426	2.296	27.653	36.840	45.616	34.632	34.629	2.02	145.75	2.96	42.00	0.00			1831	222222255
7	1948.3	2.283	2.147	27.673	36.868	45.652	34.642		2.07	152.25	2.94	41.90	0.00	0.002		1928	252222225
6	2099.9	2.096	1.950	27.696	36.901	45.695	34.651	34.650	2.29	155.70	2.88	41.20	0.00	-0.001	0.004	2077	222222222
5	2599.8	1.851	1.664	27.732	36.953	45.761	34.668	34.667	2.63	161.08	2.77	40.10	0.00			2569	222222255
4	3103.4	1.693	1.462	27.754	36.986	45.805	34.677	34.677	2.91	161.49	2.73	39.30	0.00	0.000		3063	222222255
3	3604.0	1.540	1.262	27.775	37.019	45.848	34.686	34.684	3.29	158.14	2.60	38.39	0.01			3553	222222255
2	4205.4	1.445	1.105	27.790	37.042	45.880	34.691	34.689	3.64	153.37	2.52	37.29	0.01	0.002	-0.002	4140	222222222
1	4550.2	1.475	1.095	27.790	37.043	45.881	34.690	34.691	3.65	152.66	2.53	37.19	0.01	0.002		4476	222222225

CRUISE: MW 893 STA: 169 DATE (D/M/Y): 27- 4-89 TIME: 0102 LAT: 9 29.80 N LONG: 121 10.08 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24063E-04 1/S SOUND SPEED= 1501.7 M/S Depth= 4400 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.556	34.565	4.93	27.556	22.214	30.465	38.364	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.556	34.565	4.93	27.556	22.214	30.465	38.364	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.564	34.554	5.03	27.559	22.205	30.456	38.355	0.112	0.1	-2.43	-0.320	12.82	1.308	20.0
30	27.535	34.550	5.03	27.528	22.212	30.463	38.363	0.169	0.3	-4.05	-0.373	24.17	1.796	30.0
40	27.478	34.544	4.99	27.468	22.227	30.480	38.381	0.225	0.5	-5.34	-0.261	35.91	2.189	40.0
50	27.421	34.543	4.78	27.409	22.245	30.499	38.402	0.281	0.7	-227.95	-7.179	1565.47	14.454	50.0
100	13.404	34.746	0.64	13.390	26.118	34.796	43.096	0.421	1.7	-48.18	2.173	275.08	6.059	99.8
125	12.492	34.753	0.53	12.475	26.306	35.020	43.353	0.467	2.2	-27.90	-0.388	127.19	4.120	124.7
150	12.071	34.755	0.67	12.052	26.390	35.120	43.469	0.509	2.8	-19.30	-0.784	73.66	3.135	149.6
200	11.327	34.746	0.56	11.301	26.523	35.284	43.660	0.589	4.3	-10.75	-0.216	43.56	2.411	199.4
250	10.777	34.730	0.32	10.747	26.611	35.395	43.793	0.665	6.0	-9.87	-0.384	35.62	2.180	249.1
300	10.371	34.713	0.23	10.336	26.671	35.471	43.886	0.738	8.0	-7.77	-0.304	27.40	1.912	298.8
350	10.031	34.699	0.18	9.990	26.719	35.534	43.963	0.808	10.4	-6.68	-0.329	21.91	1.710	348.6
400	9.653	34.679	0.15	9.607	26.768	35.600	44.044	0.877	13.0	-9.28	-0.522	28.61	1.954	398.3
450	9.161	34.649	0.17	9.111	26.826	35.680	44.144	0.944	15.9	-10.15	-0.620	29.40	1.981	447.9
500	8.709	34.622	0.18	8.655	26.877	35.752	44.235	1.008	19.0	-9.40	-0.556	26.64	1.885	497.6
600	7.352	34.552	0.13	7.293	27.025	35.962	44.504	1.128	25.7	-11.53	-0.220	38.43	2.265	596.9
700	6.382	34.552	0.14	6.317	27.158	36.141	44.726	1.235	32.8	-8.98	-0.063	30.22	2.008	696.1
800	5.717	34.547	0.32	5.647	27.239	36.254	44.870	1.331	40.2	-5.48	0.025	18.87	1.587	795.3
900	5.241	34.549	0.54	5.165	27.298	36.337	44.975	1.422	48.0	-4.51	0.028	15.33	1.430	894.4
1000	4.789	34.556	0.78	4.707	27.357	36.418	45.078	1.507	56.2	-4.34	0.073	15.37	1.432	993.5
1200	4.025	34.574	1.11	3.932	27.454	36.555	45.251	1.663	73.7	-3.58	0.093	12.98	1.316	1191.5
1400	3.464	34.590	1.48	3.359	27.524	36.654	45.378	1.803	92.3	-2.73	0.082	9.98	1.154	1389.3
1600	2.943	34.607	1.79	2.828	27.587	36.746	45.496	1.930	111.7	-2.38	0.092	9.07	1.100	1586.9
1800	2.562	34.626	1.91	2.435	27.636	36.816	45.585	2.047	131.9	-1.82	0.088	7.27	0.985	1784.3
2000	2.263	34.641	2.14	2.122	27.674	36.871	45.656	2.154	152.7	-1.38	0.066	5.56	0.861	1981.5
2200	2.025	34.656	2.34	1.871	27.706	36.916	45.714	2.254	174.2	-0.91	0.056	3.98	0.729	2178.5
2400	1.904	34.663	2.51	1.735	27.722	36.940	45.745	2.350	196.7	-0.52	0.029	2.25	0.548	2375.3
2600	1.850	34.667	2.60	1.663	27.731	36.952	45.761	2.445	220.8	-0.28	0.015	1.20	0.401	2571.9
2800	1.805	34.670	2.69	1.601	27.738	36.963	45.775	2.539	246.8	-0.39	0.018	1.69	0.474	2768.4
3000	1.733	34.674	2.82	1.511	27.748	36.978	45.794	2.633	274.5	-0.50	0.020	2.15	0.535	2964.7
3200	1.652	34.679	3.00	1.413	27.759	36.994	45.815	2.725	303.6	-0.56	0.022	2.48	0.576	3160.8
3400	1.575	34.683	3.18	1.317	27.769	37.009	45.836	2.815	334.0	-0.35	0.014	1.56	0.457	3356.7
3600	1.526	34.686	3.32	1.249	27.776	37.020	45.850	2.905	365.9	-0.35	0.014	1.62	0.466	3552.5
3800	1.495	34.688	3.44	1.198	27.781	37.028	45.861	2.993	399.4	-0.22	0.008	1.04	0.372	3748.1
4000	1.479	34.689	3.53	1.161	27.785	37.034	45.869	3.082	434.8	-0.24	0.007	1.10	0.383	3943.5
4200	1.453	34.691	3.63	1.114	27.789	37.041	45.878	3.171	472.0	-0.13	0.003	0.59	0.281	4138.7
4400	1.462	34.691	3.67	1.100	27.791	37.043	45.881	3.261	511.3	-0.04	0.003	0.59	0.000	4333.8
4469	1.470	34.691	3.67	1.099	27.791	37.043	45.881	3.292	525.5	-0.01	0.002	0.59	0.000	4401.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.4	27.544	27.542	22.216	30.467	38.366	34.561	34.562	4.98	1.22	0.25	0.19	0.01	1.618	0.865	8	222222222
23	47.5	20.612	20.604	24.194	32.632	40.708	34.464	34.552	2.97	9.34	1.11	12.98	0.22	1.287	0.676	47	222222222
22	98.1	12.945	12.931	26.229	34.925	43.241	34.770	34.762	0.60	25.17	2.29	32.67	0.03	0.350	0.215	97	222222222
21	120.6	12.200	12.184	26.372	35.097	43.440	34.765	34.753	0.57	27.30	2.31	33.59	0.01	0.262		119	222222225
20	147.0	11.837	11.818	26.429	35.168	43.526	34.748	34.743	0.69	28.22	2.31	33.50	0.00	0.225		146	222222225
19	171.6	11.473	11.451	26.495	35.250	43.621	34.745	34.751	0.45	29.64	2.40	34.60	0.00	0.145		170	222222225
18	196.7	11.162	11.137	26.550	35.317	43.700	34.741	34.738	0.43	30.75	2.44	35.10	0.00	0.115	0.077	195	222222222
17	246.4	10.640	10.610	26.631	35.420	43.823	34.724	34.720	0.27	33.29	2.55	36.40	0.00	0.059	0.041	244	222222222
16	296.9	10.215	10.180	26.694	35.501	43.922	34.708	34.705	0.19	35.22	2.62	37.30	0.00	0.032		295	222222225
15	396.5	9.439	9.394	26.798	35.639	44.092	34.673	34.664	0.18	40.19	2.75	38.41	-0.01	0.013		393	222222225
14	496.0	8.489	8.437	26.901	35.785	44.278	34.609	34.608	0.18	48.72	2.92	38.91	-0.01	0.002		492	222222225
13	596.7	7.177	7.120	27.056	36.001	44.551	34.561	34.549	0.14	63.34	3.14	41.00	0.00	0.002	-0.005	592	222222222
12	697.7	6.228	6.165	27.178	36.168	44.760	34.553	34.551	0.18	73.18	3.27	44.40	0.00			692	222222255
11	796.6	5.624	5.555	27.253	36.272	44.892	34.550	34.545	0.38	81.30	3.29	45.60	0.00	0.000		790	222222255
10	996.4	4.688	4.607	27.374	36.441	45.105	34.564	34.555	0.81	95.41	3.24	45.41	-0.01			988	222222255
9	1247.7	3.834	3.739	27.478	36.589	45.294	34.579	34.577	1.23		3.15	44.61	-0.01	0.001		1236	222522225
8	1497.7	3.162	3.052	27.560	36.706	45.445	34.598	34.597	1.65	128.09	3.05	43.01	-0.01			1483	222222255
7	1998.4	2.230	2.090	27.679	36.877	45.664	34.643	34.640	2.15	152.05	2.91	41.80	0.00	0.000	0.000	1977	222222255
6	2499.3	1.868	1.690	27.729	36.949	45.756	34.667	34.665	2.55	159.76	2.80	40.50	0.00			2470	222222255
5	3001.6	1.729	1.507	27.748	36.978	45.795	34.674		2.82	160.98	2.72	39.70	0.00	0.008		2963	252222225
4	3504.4	1.552	1.284	27.772	37.014	45.843	34.684	34.686	3.25	158.04	2.65	38.70	0.00			3456	222222255
3	4005.5	1.474	1.155	27.785	37.034	45.870	34.689	34.690	3.52		2.60	37.80	0.00	0.000	-0.002	3945	222522252
2	4207.1	1.453	1.113	27.789	37.041	45.878	34.690	34.691	3.60	153.06	2.58	37.50	0.00			4142	222222255
1	4470.8	1.476	1.099	27.789	37.042	45.880	34.690		3.63	152.66	2.56	37.40	0.00	0.004		4399	252222225

CRUISE: MW 893 STA: 170 DATE (D/M/Y): 27- 4-89 TIME: 0900 LAT: 9 29.84 N LONG: 120 19.98 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1502.0 M/S Depth= 4435 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.522	34.515	4.65	27.522	22.187	30.439	38.340	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.522	34.515	4.65	27.522	22.187	30.439	38.340	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.541	34.538	5.02	27.537	22.200	30.452	38.352	0.112	0.1	0.02	-0.089	-1.75	-0.483	20.0
30	27.546	34.538	5.05	27.539	22.199	30.450	38.350	0.169	0.3	-0.09	-0.042	-0.04	-0.074	30.0
40	27.547	34.537	4.99	27.538	22.198	30.450	38.350	0.225	0.5	-0.09	-0.033	0.09	0.110	40.0
50	27.507	34.538	4.90	27.496	22.213	30.465	38.366	0.282	0.7	-120.39	5.004	994.11	11.518	50.0
100	14.183	34.718	0.75	14.168	25.935	34.584	42.858	0.447	1.9	-97.32	3.005	562.90	8.667	99.9
125	13.078	34.758	0.61	13.060	26.194	34.885	43.197	0.495	2.5	-28.09	1.102	157.18	4.580	124.8
150	12.430	34.767	0.53	12.410	26.330	35.046	43.381	0.540	3.1	-28.79	-0.775	123.85	4.065	149.7
200	11.388	34.736	0.68	11.363	26.504	35.262	43.637	0.622	4.6	-12.79	-0.097	55.12	2.712	199.4
250	11.005	34.734	0.58	10.974	26.574	35.348	43.737	0.699	6.3	-6.86	0.050	30.87	2.030	249.2
300	10.575	34.722	0.64	10.539	26.642	35.434	43.840	0.773	8.4	-8.80	-0.343	31.45	2.049	298.9
350	10.134	34.706	0.36	10.093	26.707	35.518	43.942	0.845	10.8	-9.26	-0.372	32.07	2.069	348.6
400	9.668	34.682	0.12	9.622	26.768	35.599	44.042	0.914	13.4	-8.72	-0.465	27.36	1.911	398.3
450	9.172	34.654	0.09	9.122	26.828	35.681	44.145	0.980	16.3	-10.74	-0.577	32.50	2.083	448.0
500	8.696	34.634	0.09	8.642	26.889	35.763	44.247	1.044	19.4	-12.76	-0.773	35.67	2.182	497.6
600	7.320	34.561	0.12	7.261	27.037	35.975	44.519	1.163	26.0	-10.63	-0.249	34.33	2.140	596.9
700	6.403	34.550	0.13	6.339	27.153	36.135	44.719	1.269	33.1	-8.81	-0.012	30.56	2.019	696.2
800	5.742	34.551	0.39	5.672	27.239	36.253	44.867	1.366	40.4	-5.49	0.009	18.43	1.568	795.4
900	5.248	34.552	0.60	5.172	27.300	36.339	44.976	1.456	48.3	-3.93	0.010	13.08	1.321	894.5
1000	4.820	34.557	0.82	4.738	27.354	36.415	45.072	1.541	56.5	-4.47	0.071	15.80	1.452	993.5
1200	4.151	34.571	1.08	4.057	27.439	36.534	45.224	1.700	74.3	-3.66	0.081	13.11	1.322	1191.5
1400	3.501	34.588	1.48	3.396	27.519	36.648	45.370	1.842	93.2	-2.96	0.090	10.93	1.208	1389.3
1600	3.020	34.604	1.78	2.903	27.578	36.732	45.478	1.971	112.9	-2.30	0.101	9.01	1.096	1586.9
1800	2.643	34.623	1.81	2.514	27.628	36.803	45.568	2.090	133.4	-1.80	0.081	7.13	0.976	1784.3
2000	2.293	34.641	2.05	2.152	27.672	36.866	45.650	2.199	154.5	-1.58	0.076	6.42	0.926	1981.5
2200	2.068	34.653	2.29	1.914	27.700	36.908	45.704	2.300	176.3	-0.97	0.051	4.06	0.736	2178.5
2400	1.930	34.662	2.46	1.760	27.719	36.935	45.739	2.397	199.0	-0.53	0.029	2.27	0.550	2375.3
2600	1.857	34.666	2.58	1.670	27.730	36.951	45.759	2.493	223.3	-0.43	0.022	1.85	0.497	2572.0
2800	1.799	34.670	2.69	1.595	27.738	36.963	45.776	2.587	249.3	-0.36	0.016	1.53	0.452	2768.4
3000	1.724	34.674	2.83	1.502	27.748	36.978	45.795	2.680	276.9	-0.45	0.019	1.96	0.511	2964.7
3200	1.645	34.678	3.00	1.406	27.759	36.994	45.816	2.772	306.0	-0.56	0.024	2.51	0.579	3160.8
3400	1.581	34.682	3.15	1.323	27.767	37.007	45.834	2.863	336.4	-0.36	0.016	1.64	0.468	3356.8
3600	1.533	34.685	3.30	1.255	27.775	37.018	45.848	2.952	368.4	-0.29	0.012	1.34	0.423	3552.5
3800	1.491	34.688	3.44	1.193	27.781	37.028	45.862	3.041	401.9	-0.33	0.013	1.53	0.452	3748.1
4000	1.450	34.690	3.58	1.133	27.787	37.038	45.874	3.130	437.1	-0.23	0.007	1.07	0.379	3943.5
4200	1.448	34.690	3.64	1.109	27.789	37.041	45.879	3.218	474.1	-0.07	0.003	0.34	0.212	4138.7
4400	1.465	34.691	3.67	1.102	27.790	37.042	45.880	3.308	513.4	-0.03	0.002	0.34	0.000	4333.8
4481	1.471	34.691	3.66	1.099	27.790	37.043	45.881	3.345	530.1	-0.04	0.002	0.34	0.000	4412.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.7	27.546	27.545	22.190	30.442	38.342	34.529	34.528	4.93	0.30	0.21	0.09	0.01	1.700	0.882	6	222222222
23	47.7	21.944	21.935	24.161	32.555	40.589	34.900	34.775	3.96	5.64	0.82	8.49	0.61	1.585	0.836	47	222222222
22	97.0	13.893	13.879	26.102	34.761	43.043	34.856	34.717	0.77	21.86	2.16	30.28	0.42	0.541	0.295	96	222222222
21	122.5	13.003	12.986	26.202	34.895	43.210	34.749	34.756	0.60	24.28	2.27	32.56	0.14	0.384		121	222222225
20	148.7	12.144	12.124	26.389	35.116	43.462	34.772	34.760	0.60	26.50	2.33	33.58	0.02	0.258		147	222222225
19	172.0	11.639	11.617	26.464	35.212	43.577	34.745	34.740	0.67	28.11	2.34	33.89	0.01	0.207		170	222222225
18	195.8	11.313	11.288	26.514	35.275	43.652	34.730	34.732	0.71	29.12	2.35	34.09	0.01	0.173		194	222222225
17	247.0	10.921	10.891	26.590	35.367	43.760	34.736	34.727	0.62	30.73	2.43	34.89	0.01	0.124	0.078	245	222222222
16	296.5	10.453	10.418	26.651	35.448	43.860	34.707	34.713	0.57	32.24	2.49	35.50	0.00	0.088		294	222222225
15	396.0	9.653	9.608	26.770	35.602	44.046	34.682	34.679	0.11	38.28	2.75	37.90	0.00	0.018		393	222222225
14	496.3	8.736	8.683	26.884	35.757	44.239	34.637	34.634	0.10	46.24	2.93	38.30	0.00	0.003		492	222222225
13	596.2	7.427	7.368	27.030	35.963	44.501	34.571	34.562	0.09	59.34	3.13	40.10	0.00	0.002		591	222222225
12	696.9	6.468	6.403	27.137	36.116	44.698	34.540	34.549	0.10	70.42	3.26	43.60	0.00	0.003		691	222222225
11	799.2	5.758	5.688	27.237	36.251	44.864	34.551	34.550	0.42	77.07	3.25	45.50	0.00	-0.001	0.002	793	222222222
10	996.4	4.767	4.685	27.361	36.424	45.084	34.559	34.555		92.89	3.21	45.40	0.00			988	225222255
9	1298.4	3.690	3.592	27.495	36.613	45.326	34.581	34.581	1.31	115.86	3.13	44.19	0.01	0.001		1287	222222225
8	1698.5	2.776	2.654	27.610	36.778	45.537	34.617	34.618	1.72	138.03	3.05	43.19	0.01	0.004		1682	222222225
7	2101.4	2.130	1.983	27.693	36.897	45.689	34.651	34.651	2.21	154.05	2.91	41.69	0.01	0.000		2079	222222255
6	2503.0	1.877	1.699	27.727	36.947	45.753	34.666	34.665	2.52	159.18	2.81	40.49	0.01	0.000	-0.005	2474	222222252
5	2903.1	1.754	1.541	27.745	36.973	45.788	34.673	34.672	2.75	159.79	2.74	39.79	0.01		0.003	2866	222222252
4	3303.4	1.602	1.353	27.764	37.002	45.827	34.680	34.681	3.10	158.68	2.66	38.99	0.01	-0.002	-0.005	3259	222222222
3	3702.6	1.508	1.221	27.778	37.024	45.856	34.686	34.686	3.37	155.86	2.59	38.29	0.01	0.003		3649	222222225
2	4105.4	1.446	1.117	27.789	37.040	45.877	34.690	34.689	3.59	152.33	2.55	37.69	0.01	0.002		4043	222222225
1	4484.8	1.471	1.099	27.790	37.043	45.881	34.691	34.691	3.63	151.33	2.53	37.29	0.01	0.002	-0.002	4413	222222222

CRUISE: MW 893 STA: 171 DATE (D/M/Y): 27- 4-89 TIME: 1705 LAT: 9 29.99 N LONG: 119 30.09 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1501.4 M/S Depth= 4283 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.697	34.271	5.07	27.697	21.947	30.198	38.097	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.697	34.271	5.07	27.697	21.947	30.198	38.097	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.684	34.266	4.99	27.679	21.949	30.200	38.100	0.117	0.1	-1.37	0.047	11.25	1.225	20.0
30	27.681	34.266	4.98	27.674	21.951	30.202	38.102	0.176	0.3	0.13	0.059	0.09	0.108	30.0
40	27.684	34.268	4.97	27.674	21.952	30.203	38.103	0.235	0.5	-0.17	0.978	18.62	1.576	40.0
50	27.516	34.327	4.61	27.504	22.052	30.306	38.209	0.293	0.7	-87.13	7.566	793.62	10.290	50.0
100	16.062	34.724	1.59	16.046	25.526	34.108	42.319	0.483	2.1	-112.87	-1.362	583.34	8.822	99.9
125	13.190	34.725	0.48	13.173	26.146	34.833	43.141	0.538	2.7	-79.01	2.676	463.77	7.866	124.8
150	12.407	34.777	0.33	12.387	26.341	35.058	43.394	0.583	3.4	-20.57	-0.113	95.37	3.567	149.7
200	11.592	34.746	0.74	11.566	26.474	35.224	43.590	0.665	4.8	-14.53	-0.485	56.17	2.737	199.5
250	10.945	34.725	0.84	10.915	26.577	35.354	43.746	0.743	6.6	-9.14	-0.170	36.67	2.212	249.2
300	10.546	34.722	0.86	10.510	26.647	35.440	43.848	0.817	8.7	-6.18	-0.154	23.66	1.777	298.9
350	10.174	34.706	0.60	10.133	26.700	35.510	43.932	0.889	11.1	-8.24	-0.247	30.25	2.009	348.6
400	9.814	34.692	0.28	9.768	26.751	35.576	44.014	0.958	13.7	-7.77	-0.342	25.98	1.862	398.3
450	9.336	34.662	0.18	9.286	26.807	35.653	44.110	1.026	16.7	-11.43	-0.807	31.62	2.054	448.0
500	8.765	34.629	0.19	8.711	26.874	35.746	44.227	1.091	19.8	-13.17	-0.725	38.55	2.268	497.7
600	7.534	34.573	0.15	7.474	27.016	35.944	44.478	1.211	26.6	-13.22	-0.387	41.62	2.356	597.0
700	6.420	34.551	0.16	6.356	27.152	36.133	44.716	1.318	33.6	-8.21	-0.121	26.35	1.875	696.2
800	5.749	34.550	0.37	5.679	27.237	36.251	44.865	1.415	41.0	-5.94	-0.058	18.86	1.586	795.4
900	5.296	34.549	0.54	5.220	27.292	36.329	44.964	1.505	48.9	-4.47	0.031	15.11	1.420	894.5
1000	4.818	34.557	0.75	4.736	27.354	36.415	45.072	1.591	57.1	-4.85	0.081	17.11	1.511	993.6
1200	4.078	34.573	1.11	3.984	27.449	36.547	45.240	1.747	74.6	-3.06	0.081	11.10	1.217	1191.6
1400	3.546	34.587	1.47	3.441	27.514	36.640	45.360	1.888	93.3	-2.41	0.071	8.82	1.085	1389.4
1600	3.107	34.602	1.72	2.990	27.568	36.718	45.460	2.018	113.3	-1.95	0.079	7.51	1.001	1587.0
1800	2.693	34.621	1.78	2.564	27.621	36.794	45.557	2.139	134.2	-2.07	0.095	8.27	1.050	1784.4
2000	2.354	34.637	2.02	2.212	27.664	36.855	45.636	2.250	155.7	-1.72	0.086	7.03	0.968	1981.6
2200	2.082	34.652	2.28	1.927	27.699	36.905	45.701	2.353	177.7	-1.12	0.060	4.75	0.796	2178.6
2400	1.932	34.661	2.46	1.761	27.719	36.935	45.739	2.450	200.5	-0.65	0.038	2.83	0.615	2375.4
2600	1.848	34.666	2.59	1.662	27.731	36.952	45.761	2.545	224.8	-0.41	0.019	1.75	0.483	2572.0
2800	1.789	34.670	2.70	1.585	27.739	36.965	45.778	2.640	250.7	-0.42	0.021	1.85	0.497	2768.5
3000	1.726	34.674	2.83	1.504	27.748	36.978	45.795	2.733	278.2	-0.52	0.023	2.25	0.547	2964.8
3200	1.632	34.679	3.03	1.392	27.760	36.996	45.819	2.824	307.2	-0.40	0.016	1.77	0.486	3160.9
3400	1.575	34.682	3.18	1.317	27.768	37.008	45.835	2.914	337.5	-0.39	0.017	1.76	0.485	3356.8
3600	1.526	34.685	3.33	1.249	27.775	37.019	45.850	3.004	369.4	-0.29	0.012	1.34	0.422	3552.6
3800	1.489	34.687	3.45	1.192	27.781	37.028	45.862	3.093	403.0	-0.29	0.011	1.34	0.423	3748.2
4000	1.465	34.689	3.55	1.147	27.786	37.035	45.871	3.181	438.3	-0.24	0.008	1.15	0.392	3943.6
4200	1.456	34.690	3.63	1.117	27.788	37.040	45.877	3.270	475.4	-0.07	0.003	0.36	0.219	4138.8
4357	1.467	34.690	3.64	1.109	27.789	37.041	45.878	3.341	506.2	-0.03	0.002	0.36	0.000	4291.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.1	27.647	27.646	21.925	30.177	38.078	34.220	34.229	4.94	0.81	0.22	0.00	0.00	1.673	0.901	6	222222222
23	47.7	27.633	27.622	21.955	30.208	38.109	34.250	34.250	4.91	1.01	0.25	0.08	0.02	1.619	0.871	47	222222222
22	96.8	16.480	16.464	25.441	34.009	42.205	34.739	34.731	1.79	16.22	1.71	23.09	0.91	0.946	0.530	96	222222222
21	121.0	13.397	13.380	26.108	34.787	43.088	34.731	34.715	0.49	23.98	2.27	31.88	0.02	0.438	0.264	120	222222222
20	145.8	12.291	12.272	26.389	35.110	43.450	34.809	34.773	0.29	26.70	2.39	33.99	0.01	0.228		144	222222225
19	171.8	11.824	11.802	26.433	35.173	43.531	34.750	34.749	0.71	27.61	2.29	32.69	0.01	0.232		170	222222225
18	195.5	11.404	11.379	26.497	35.254	43.629	34.731	34.737	0.72	29.02	2.30	33.09	0.01	0.192	0.124	194	222222222
17	247.0	10.866	10.836	26.590	35.369	43.764	34.723	34.720	0.80	30.83	2.35	33.49	0.01	0.141	0.093	245	222222222
16	297.0	10.505	10.469	26.653	35.448	43.857	34.721	34.721	0.78	31.94	2.42	34.30	0.00	0.113	0.075	295	222222222
15	396.8	9.728	9.682	26.765	35.594	44.035	34.692	34.688	0.22	37.98	2.71	36.60	0.00	0.032		394	222222225
14	497.0	8.680	8.627	26.881	35.757	44.241	34.621	34.625	0.14	46.35	2.89	37.99	0.01		0.010	493	222222252
13	646.6	6.986	6.924	27.081	36.035	44.594	34.558	34.559	0.14	64.98	3.21	40.99	0.01	0.003	0.007	641	222222222
12	797.3	5.881	5.810	27.222	36.229	44.837	34.551	34.551	0.36	75.86	3.24	44.79	0.01	0.001	0.002	791	222222222
11	1097.2	4.403	4.315	27.404	36.486	45.164	34.562	34.564	0.96	100.65	3.20	44.39	0.01			1088	222222255
10	1446.0	3.363	3.256	27.537	36.673	45.401	34.593	34.591	1.53	122.71	3.08	42.80	0.00			1432	222222255
9	1599.9	3.070	2.953	27.573	36.725	45.469	34.604	34.603	1.68	130.07	3.06	42.60	0.00	0.000	0.010	1584	222222252
8	1697.1	2.857	2.734	27.601	36.764	45.519	34.614	34.611	1.65	136.01	3.06	42.80	0.00			1680	222222255
7	1847.7	2.558	2.426	27.638	36.818	45.588	34.627	34.627	1.85	143.67	2.99	42.29	0.01			1829	222222255
6	2076.9	2.208	2.062	27.683	36.882	45.671	34.646	34.645	2.13	152.13	2.92	41.31	-0.01	0.000	0.010	2054	222222252
5	2601.5	1.839	1.653	27.732	36.954	45.763	34.667	34.666	2.60	159.49	2.77	39.60	0.00			2570	222222255
4	3103.4	1.666	1.436	27.756	36.990	45.811	34.678	34.678	2.93	159.49	2.70	38.70	0.00	0.002	-0.005	3063	222222222
3	3605.3	1.526	1.248	27.775	37.019	45.850	34.685	34.686	3.32	156.16	2.60	37.90	0.00			3554	222222255
2	4105.3	1.453	1.124	27.788	37.039	45.876	34.690	34.690	3.58	152.13	2.54	37.00	0.00	0.003	-0.002	4043	222222222
1	4360.8	1.467	1.109	27.788	37.040	45.878	34.689	34.692	3.60	152.03	2.53	36.90	0.00	0.001	-0.002	4292	222222222

CRUISE: MW 893 STA: 172 DATE (D/M/Y): 28- 4-89 TIME: 0110 LAT: 9 29.65 N LONG: 118 40.20 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24056E-04 1/S SOUND SPEED= 1501.0 M/S Depth= 4237 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.920	34.073	5.08	27.920	21.726	29.973	37.869	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.920	34.073	5.08	27.920	21.726	29.973	37.870	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.735	34.077	4.98	27.730	21.791	30.042	37.943	0.121	0.1	-6.61	0.362	56.81	2.754	20.0
30	27.713	34.078	4.95	27.706	21.799	30.052	37.953	0.181	0.3	-1.35	0.076	11.63	1.246	30.0
40	27.706	34.079	4.96	27.697	21.803	30.055	37.956	0.242	0.5	-0.75	0.047	6.59	0.938	40.0
50	27.694	34.080	4.99	27.682	21.809	30.062	37.963	0.302	0.8	-11.94	2.130	128.57	4.143	50.0
100	17.545	34.640	0.74	17.529	25.112	33.645	41.809	0.539	2.5	-199.05	10.759	1360.96	13.478	100.0
125	13.925	34.692	0.46	13.907	25.969	34.629	42.912	0.599	3.2	-89.78	4.358	556.52	8.619	124.9
150	12.753	34.750	0.44	12.733	26.253	34.957	43.281	0.647	3.9	-26.92	1.096	152.74	4.515	149.8
200	11.729	34.765	0.56	11.704	26.463	35.207	43.569	0.732	5.4	-17.41	-0.157	75.62	3.177	199.5
250	11.088	34.738	0.66	11.057	26.562	35.332	43.719	0.810	7.2	-9.92	-0.293	38.16	2.257	249.3
300	10.624	34.726	0.48	10.587	26.636	35.426	43.831	0.885	9.3	-10.82	-0.380	39.48	2.296	299.0
350	10.213	34.709	0.24	10.172	26.695	35.503	43.924	0.956	11.6	-8.15	-0.393	27.16	1.904	348.7
400	9.741	34.685	0.17	9.695	26.758	35.586	44.026	1.026	14.3	-8.26	-0.414	26.60	1.884	398.4
450	9.277	34.658	0.12	9.227	26.814	35.663	44.122	1.093	17.2	-13.23	-0.758	39.52	2.297	448.1
500	8.512	34.617	0.11	8.459	26.904	35.787	44.279	1.157	20.3	-12.30	-0.578	37.23	2.229	497.8
600	7.427	34.575	0.11	7.367	27.032	35.966	44.504	1.275	26.9	-11.30	-0.246	36.83	2.217	597.1
700	6.421	34.553	0.17	6.357	27.154	36.135	44.718	1.381	33.9	-7.70	-0.114	24.66	1.814	696.3
800	5.751	34.549	0.36	5.681	27.236	36.250	44.864	1.478	41.3	-6.63	-0.014	22.04	1.715	795.5
900	5.204	34.551	0.58	5.128	27.305	36.345	44.985	1.568	49.1	-4.85	0.096	17.70	1.537	894.6
1000	4.769	34.558	0.81	4.687	27.360	36.423	45.083	1.653	57.3	-4.04	0.061	14.17	1.375	993.7
1200	4.072	34.572	1.16	3.978	27.448	36.547	45.240	1.809	74.8	-3.19	0.090	11.70	1.249	1191.6
1400	3.519	34.590	1.44	3.413	27.519	36.646	45.368	1.950	93.6	-2.45	0.074	9.03	1.098	1389.4
1600	3.059	34.605	1.67	2.942	27.575	36.727	45.472	2.080	113.5	-2.22	0.092	8.65	1.074	1587.0
1800	2.683	34.622	1.78	2.553	27.623	36.796	45.560	2.200	134.2	-2.04	0.090	8.07	1.038	1784.4
2000	2.343	34.638	2.03	2.202	27.665	36.857	45.639	2.311	155.6	-1.56	0.074	6.31	0.918	1981.6
2200	2.077	34.653	2.27	1.922	27.700	36.907	45.702	2.413	177.6	-1.20	0.059	4.94	0.812	2178.6
2400	1.919	34.662	2.49	1.749	27.720	36.937	45.741	2.510	200.4	-0.65	0.036	2.81	0.612	2375.5
2600	1.842	34.667	2.61	1.655	27.732	36.953	45.762	2.605	224.5	-0.42	0.019	1.80	0.490	2572.1
2800	1.777	34.671	2.73	1.573	27.741	36.967	45.781	2.699	250.4	-0.44	0.021	1.91	0.504	2768.6
3000	1.686	34.676	2.91	1.465	27.753	36.985	45.804	2.792	277.7	-0.56	0.021	2.39	0.565	2964.8
3200	1.612	34.680	3.08	1.373	27.763	37.000	45.824	2.882	306.4	-0.44	0.018	1.94	0.509	3161.0
3400	1.573	34.683	3.20	1.315	27.769	37.009	45.836	2.972	336.6	-0.26	0.010	1.15	0.391	3356.9
3600	1.544	34.684	3.29	1.266	27.774	37.017	45.846	3.062	368.6	-0.19	0.009	0.88	0.342	3552.6
3800	1.525	34.686	3.38	1.227	27.778	37.023	45.855	3.151	402.5	-0.24	0.009	1.09	0.382	3748.2
4000	1.494	34.688	3.49	1.175	27.783	37.031	45.865	3.241	438.2	-0.37	0.014	1.77	0.485	3943.6
4200	1.462	34.690	3.62	1.122	27.788	37.039	45.876	3.330	475.6	-0.09	0.004	1.77	0.000	4138.9
4285	1.468	34.690	3.61	1.119	27.789	37.040	45.877	3.369	492.1	-0.04	0.003	1.77	0.000	4221.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.4	27.810	27.809	21.759	30.009	37.908	34.069	34.073	4.97	0.81	0.26	0.00	0.00	1.625	0.908	7	222222222
23	48.2	27.698	27.687	21.805	30.058	37.959	34.078	34.077	4.90	1.01	0.28	0.10	0.00	1.620	0.895	47	222222222
22	97.9	16.931	16.914	25.268	33.822	42.005	34.652	34.632	0.63	16.42	2.11	28.15	0.15	0.838	0.486	97	222222222
21	122.5	14.036	14.018	25.932	34.588	42.867	34.674	34.687	0.47	22.67	2.27	31.58	0.02	0.514	0.302	121	222222222
20	146.4	12.800	12.780	26.223	34.925	43.248	34.724	34.751	0.38	25.89	2.36	33.49	0.01	0.300	0.162	145	222222222
19	170.7	12.193	12.170	26.367	35.092	43.437	34.755	34.759	0.47	27.20	2.37	33.69	0.01	0.239		169	222222225
18	196.8	11.756	11.731	26.432	35.175	43.536	34.731	34.758	0.58	28.11	2.35	33.59	0.01	0.202		195	222222225
17	246.8	11.175	11.144	26.546	35.313	43.696	34.738	34.744	0.61	30.02	2.38	33.99	0.01	0.143	0.083	245	222222222
15	397.0	9.796	9.750	26.752	35.578	44.016	34.689	34.687	0.19	38.18	2.70	36.71	-0.01	0.021		394	222222225
14	496.7	8.692	8.639	26.886	35.761	44.245	34.630	34.625	0.07	48.16	2.94	36.70	0.00	0.008	0.008	493	222222222
13	597.8	7.601	7.541	27.011	35.936	44.468	34.580	34.583	0.08	58.84	3.12	39.20	0.00	0.000	0.014	593	222222252
12	696.3	6.650	6.585	27.125	36.095	44.669	34.556	34.559	0.14	67.80	3.21	42.80	0.00	-0.001	0.001	691	222222222
11	796.0	5.876	5.805	27.220	36.228	44.836	34.548	34.548	0.30	76.97	3.27	44.70	0.00			789	222222255
10	997.7	4.806	4.724	27.357	36.418	45.076	34.559	34.557	0.79	92.19	3.22	44.91	-0.01			989	222222255
9	1247.7	3.933	3.837	27.464	36.570	45.270	34.574	34.577	1.16	110.72	3.17	44.10	0.00			1236	222222255
8	1498.2	3.294	3.183	27.545	36.684	45.417	34.595	34.593	1.63	123.72	3.06	42.90	0.00			1484	222222255
7	1748.0	2.752	2.626	27.615	36.784	45.544	34.619	34.618	1.70	139.34	3.03	42.80	0.00			1730	222222255
6	1999.6	2.301	2.160	27.674	36.868	45.651	34.644	34.639	2.04	149.01	2.93	41.60	0.00	-0.001	0.008	1978	222222222
5	2501.5	1.876	1.698	27.726	36.945	45.752	34.664	34.664	2.53	158.98	2.81	39.91	-0.01			2472	222222255
4	3002.9	1.691	1.470	27.753	36.984	45.803	34.676	34.676	2.89	160.09	2.71	39.01	-0.01	0.002	0.007	2964	222222222
3	3503.6	1.554	1.286	27.772	37.014	45.842	34.684	34.684	3.22	157.37	2.61	38.10	0.00	0.000	-0.002	3455	222222252
2	4007.3	1.491	1.172	27.783	37.031	45.866	34.688	34.689	3.48	153.64	2.55	37.41	-0.01	-0.002	-0.002	3947	222222222
1	4287.8	1.469	1.119	27.788	37.039	45.876	34.689	34.690	3.58	152.13	2.50	37.11	-0.01	0.002	-0.002	4221	222222222

CRUISE: MW 893 STA: 173 DATE (D/M/Y): 28- 4-89 TIME: 0850 LAT: 9 29.53 N LONG: 117 50.27 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24051E-04 1/S SOUND SPEED= 1500.4 M/S Depth= 4081 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.628	34.101	4.72	27.628	21.842	30.096	37.998	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.628	34.101	4.72	27.627	21.842	30.096	37.998	0.018	0.0	-0.46	0.000	0.00	0.000	3.0
20	27.645	34.092	5.10	27.641	21.831	30.085	37.987	0.120	0.1	-0.05	0.028	0.91	0.348	20.0
30	27.651	34.093	5.11	27.644	21.830	30.084	37.986	0.179	0.3	-0.74	0.089	7.20	0.981	30.0
40	27.638	34.095	5.09	27.629	21.837	30.091	37.994	0.239	0.5	-1.79	0.315	19.18	1.600	40.0
50	27.617	34.099	5.07	27.605	21.847	30.102	38.005	0.299	0.8	-2.64	0.359	26.42	1.878	50.0
100	19.981	34.370	1.00	19.963	24.292	32.751	40.845	0.555	2.7	-179.97	17.970	1433.25	13.833	100.0
125	15.599	34.763	0.21	15.579	25.662	34.260	42.485	0.630	3.5	-135.73	10.654	966.86	11.362	124.9
150	13.311	34.806	0.47	13.290	26.185	34.866	43.169	0.681	4.2	-42.26	-0.939	201.23	5.183	149.8
200	12.044	34.782	0.56	12.017	26.417	35.148	43.498	0.769	5.8	-16.89	-0.496	68.39	3.022	199.6
250	11.485	34.753	0.52	11.374	26.515	35.273	43.647	0.849	7.6	-11.98	-0.427	45.43	2.463	249.3
300	10.944	34.735	0.55	10.907	26.587	35.363	43.756	0.926	9.8	-7.88	-0.301	28.83	1.962	299.0
350	10.512	34.721	0.45	10.470	26.653	35.448	43.857	1.000	12.2	-9.06	-0.333	32.78	2.092	348.8
400	9.986	34.697	0.18	9.939	26.726	35.544	43.974	1.072	15.0	-12.13	-0.614	39.61	2.300	398.5
450	9.419	34.667	0.11	9.368	26.798	35.640	44.094	1.140	17.9	-12.99	-0.713	39.81	2.306	448.1
500	8.763	34.633	0.09	8.709	26.877	35.749	44.230	1.205	21.1	-11.20	-0.580	33.57	2.117	497.8
600	7.599	34.578	0.08	7.538	27.011	35.936	44.467	1.326	27.9	-12.35	-0.366	38.85	2.278	597.1
700	6.412	34.555	0.14	6.348	27.156	36.137	44.721	1.433	34.9	-7.85	-0.064	26.00	1.863	696.3
800	5.736	34.552	0.39	5.666	27.241	36.255	44.870	1.529	42.3	-5.28	0.024	18.18	1.558	795.5
900	5.317	34.552	0.52	5.240	27.293	36.328	44.962	1.620	50.1	-4.14	0.021	13.88	1.361	894.6
1000	4.783	34.558	0.74	4.702	27.359	36.421	45.080	1.705	58.4	-5.51	0.094	19.43	1.611	993.7
1200	4.069	34.574	1.09	3.975	27.450	36.549	45.243	1.860	75.8	-2.93	0.083	10.72	1.196	1191.7
1400	3.515	34.590	1.45	3.410	27.519	36.647	45.369	2.001	94.4	-2.34	0.070	8.58	1.070	1389.5
1600	3.086	34.605	1.68	2.969	27.573	36.724	45.467	2.131	114.3	-2.13	0.065	7.87	1.025	1587.1
1800	2.703	34.618	1.97	2.573	27.618	36.790	45.553	2.252	135.2	-2.20	0.107	8.91	1.091	1784.5
2000	2.346	34.638	2.03	2.204	27.665	36.857	45.638	2.362	156.7	-1.62	0.080	6.64	0.941	1981.7
2200	2.089	34.652	2.27	1.934	27.698	36.905	45.700	2.465	178.7	-1.16	0.063	4.90	0.809	2178.7
2400	1.936	34.662	2.47	1.766	27.719	36.934	45.738	2.563	201.6	-0.75	0.043	3.26	0.660	2375.5
2600	1.855	34.667	2.59	1.668	27.731	36.951	45.760	2.658	225.9	-0.39	0.020	1.69	0.475	2572.2
2800	1.787	34.671	2.71	1.583	27.740	36.966	45.779	2.752	251.8	-0.55	0.022	2.33	0.558	2768.6
3000	1.710	34.675	2.86	1.488	27.750	36.981	45.799	2.845	279.2	-0.50	0.016	2.07	0.526	2964.9
3200	1.630	34.678	3.02	1.391	27.760	36.996	45.819	2.936	308.1	-0.44	0.022	1.99	0.515	3161.0
3400	1.582	34.682	3.17	1.324	27.768	37.007	45.834	3.027	338.5	-0.25	0.009	1.10	0.384	3356.9
3600	1.545	34.685	3.29	1.268	27.774	37.017	45.846	3.116	370.6	-0.24	0.011	1.16	0.393	3552.7
3800	1.531	34.686	3.38	1.233	27.777	37.022	45.853	3.206	404.4	-0.22	0.008	1.02	0.370	3748.3
4000	1.487	34.689	3.50	1.168	27.784	37.032	45.867	3.296	440.2	-0.23	0.010	1.14	0.390	3943.7
4149	1.491	34.689	3.51	1.155	27.785	37.034	45.869	3.363	468.0	-0.05	0.000	1.14	0.000	4089.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.6	27.611	27.610	21.838	30.093	37.996	34.089	34.088	4.84	0.50	0.27	0.01	-0.01	1.626	0.880	5	222222222
23	46.7	27.608	27.597	21.848	30.103	38.006	34.096	34.093	4.85	0.50	0.29	-0.01	0.01	1.616		46	222222225
22	71.9	24.955	24.940	22.545	30.868	38.835	33.920	33.984	2.90	3.53	1.06	12.95	0.25	1.543	0.833	71	222222222
21	97.7	18.552	18.534	24.773	33.275	41.410	34.521	34.421	0.94	12.69	1.97	26.28	0.02	1.018	0.596	97	222222222
20	121.3	15.026	15.007	25.814	34.432	42.676	34.796	34.779	0.12	20.45	2.35	31.49	0.01	0.530	0.316	120	222222222
19	148.1	13.137	13.116	26.232	34.920	43.229	34.822	34.793	0.37	23.98	2.28	32.79	0.01	0.339	0.199	147	222222222
18	172.9	12.417	12.394	26.353	35.069	43.405	34.793	34.779	0.43	25.89	2.32	33.20	0.00	0.257	0.161	171	222222222
17	196.2	12.075	12.049	26.417	35.147	43.495	34.790	34.781	0.57	26.40	2.28	33.09	0.01	0.222		195	222222225
16	248.5	11.364	11.333	26.521	35.280	43.656	34.751	34.749	0.53	29.22	2.35	33.89	0.01	0.149		246	222222225
15	298.8	10.864	10.827	26.594	35.374	43.769	34.726	34.733	0.54	30.53	2.39	34.39	0.01	0.115		296	222222225
14	396.7	9.913	9.867	26.730	35.551	43.984	34.687	34.684	0.14	36.47	2.65	36.30	0.00	0.028	0.026	394	222222222
13	496.8	8.817	8.763	26.870	35.739	44.218	34.634	34.636	0.07	45.74	2.86	37.10	0.00	0.004	0.003	493	222222222
12	595.2	7.629	7.570	26.995	35.919	44.449	34.564	34.580	0.04	58.13	3.09	38.10	0.00	-0.001	0.016	590	222222222
11	697.5	6.490	6.426	27.147	36.124	44.705	34.556	34.554	0.11	69.92	3.20	42.90	0.00			692	222222255
10	796.1	5.834	5.763	27.227	36.237	44.847	34.550	34.545	0.25	77.68	3.22	44.40	0.00			790	222222255
9	995.9	4.903	4.820	27.340	36.396	45.050	34.551	34.553	0.69	90.88	3.18	45.00	0.00			987	222222255
8	1297.3	3.824	3.724	27.481	36.592	45.298	34.581	34.580	1.22	112.64	3.09	43.70	0.00			1285	222222255
7	1697.0	2.940	2.816	27.592	36.751	45.502	34.612	34.608	1.76	132.99	2.94	42.20	0.00			1680	222222255
6	2100.7	2.216	2.068	27.682	36.881	45.670	34.646	34.644	2.12	152.03	2.82	41.30	0.00	-0.002	-0.005	2078	222222222
5	2502.5	1.903	1.724	27.724	36.942	45.748	34.665	34.662	2.49	160.80	2.76	39.90	0.00			2473	222222255
4	2901.1	1.743	1.531	27.746	36.974	45.790	34.673	34.672	2.76	162.71	2.68	39.20	0.00	-0.002	-0.005	2865	222222222
3	3303.2	1.594	1.346	27.766	37.005	45.830	34.682	34.682	3.11	158.88	2.59	38.40	0.00	-0.002	-0.002	3259	222222222
2	3703.7	1.537	1.249	27.775	37.019	45.850	34.685	34.685	3.31	156.77	2.54	37.90	0.00			3650	222222255
1	4152.8	1.486	1.151	27.785	37.035	45.870	34.689	34.688	3.51	154.45	2.50	37.19	0.01	0.000	-0.002	4089	222222252

CRUISE: MW 893 STA: 174 DATE (D/M/Y): 28- 4-89 TIME: 1646 LAT: 9 29.49 N LONG: 117 0.12 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24050E-04 1/S SOUND SPEED= 1500.6 M/S Depth= 4146 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.565	34.055	4.96	27.565	21.827	30.083	37.988	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.565	34.055	4.96	27.565	21.827	30.083	37.988	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.570	34.054	4.87	27.565	21.826	30.082	37.987	0.120	0.1	-0.13	0.019	1.33	0.422	20.0
30	27.572	34.054	4.83	27.565	21.827	30.083	37.987	0.180	0.3	0.31	0.008	-2.25	-0.548	30.0
40	27.576	34.054	4.90	27.567	21.826	30.082	37.986	0.239	0.5	-0.05	-0.024	0.01	0.027	40.0
50	27.578	34.053	4.82	27.566	21.826	30.082	37.986	0.299	0.8	0.16	0.027	-0.75	-0.316	50.0
100	22.116	34.109	1.72	22.096	23.561	31.959	39.997	0.574	2.8	-168.05	14.239	1351.99	13.436	100.0
125	17.593	34.603	0.50	17.572	25.073	33.605	41.769	0.666	3.9	-170.10	14.614	1286.89	13.108	124.9
150	14.190	34.751	0.39	14.168	25.960	34.609	42.882	0.727	4.7	-92.28	2.702	552.07	8.586	149.8
200	12.220	34.779	0.38	12.193	26.381	35.105	43.448	0.819	6.4	-19.51	-0.378	83.90	3.347	199.6
250	11.619	34.759	0.38	11.587	26.480	35.229	43.595	0.902	8.3	-13.56	-0.481	52.37	2.644	249.4
300	10.990	34.737	0.29	10.953	26.579	35.354	43.744	0.980	10.4	-14.47	-0.560	53.19	2.665	299.1
350	10.411	34.712	0.18	10.369	26.664	35.463	43.877	1.054	12.9	-10.46	-0.491	35.59	2.180	348.8
400	9.932	34.689	0.13	9.886	26.729	35.549	43.982	1.125	15.6	-8.71	-0.459	27.83	1.928	398.5
450	9.355	34.658	0.08	9.304	26.801	35.647	44.103	1.193	18.6	-13.35	-0.626	42.63	2.386	448.2
500	8.542	34.611	0.09	8.489	26.894	35.776	44.266	1.258	21.7	-15.95	-0.781	47.72	2.524	497.9
600	7.208	34.564	0.07	7.150	27.055	35.998	44.546	1.375	28.2	-12.62	-0.455	37.03	2.223	597.2
700	6.188	34.554	0.10	6.125	27.184	36.176	44.770	1.478	35.1	-7.43	0.088	27.12	1.903	696.4
800	5.551	34.553	0.25	5.483	27.264	36.287	44.910	1.572	42.2	-5.89	-0.005	19.42	1.610	795.6
900	5.025	34.557	0.44	4.950	27.330	36.379	45.027	1.659	49.8	-4.97	0.042	16.78	1.497	894.7
1000	4.589	34.564	0.69	4.509	27.385	36.457	45.125	1.741	57.7	-3.39	0.075	12.11	1.272	993.8
1200	3.932	34.577	1.16	3.840	27.466	36.572	45.273	1.892	74.7	-3.03	0.087	11.03	1.213	1191.7
1400	3.422	34.593	1.45	3.318	27.531	36.664	45.389	2.030	92.9	-2.23	0.056	7.91	1.028	1389.5
1600	3.027	34.605	1.75	2.910	27.578	36.732	45.478	2.157	112.4	-1.92	0.066	7.18	0.979	1587.1
1800	2.655	34.623	1.77	2.526	27.626	36.801	45.566	2.276	133.0	-1.86	0.093	7.51	1.002	1784.5
2000	2.275	34.642	2.04	2.134	27.674	36.870	45.655	2.385	154.1	-1.57	0.079	6.42	0.926	1981.7
2200	2.068	34.654	2.27	1.913	27.701	36.909	45.705	2.486	175.8	-0.83	0.043	3.47	0.680	2178.7
2400	1.967	34.660	2.40	1.796	27.715	36.929	45.731	2.584	198.7	-0.56	0.029	2.40	0.566	2375.5
2600	1.860	34.666	2.55	1.673	27.730	36.950	45.758	2.680	223.1	-0.50	0.025	2.15	0.536	2572.2
2800	1.770	34.671	2.70	1.567	27.742	36.968	45.782	2.774	249.0	-0.57	0.024	2.42	0.568	2768.6
3000	1.674	34.676	2.87	1.453	27.753	36.986	45.806	2.866	276.2	-0.55	0.024	2.40	0.566	2964.9
3200	1.600	34.680	3.04	1.362	27.764	37.001	45.826	2.956	304.8	-0.36	0.017	1.65	0.469	3161.0
3400	1.560	34.683	3.16	1.303	27.770	37.011	45.838	3.045	334.8	-0.23	0.012	1.10	0.383	3357.0
3600	1.542	34.685	3.26	1.265	27.774	37.017	45.847	3.135	366.8	-0.20	0.009	0.94	0.354	3552.7
3800	1.521	34.686	3.33	1.223	27.778	37.024	45.855	3.225	400.6	-0.26	0.008	1.19	0.399	3748.3
4000	1.491	34.688	3.43	1.172	27.783	37.031	45.866	3.314	436.3	-0.14	0.005	0.65	0.294	3943.7
4200	1.494	34.689	3.47	1.153	27.785	37.034	45.870	3.404	474.0	-0.08	0.002	0.65	0.000	4138.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	12.5	27.573	27.570	21.823	30.079	37.983	34.051	34.053	4.97	0.71	0.25	-0.11	0.01	1.636	0.871	12	222222222
23	47.2	27.560	27.550	21.829	30.086	37.990	34.051	34.049	4.73	0.91	0.27	0.00	0.00	1.613		46	222222225
22	97.7	19.640	19.623	24.394	32.864	40.968	34.388	34.396	1.00	13.20	1.87	25.87	0.03	1.058	0.574	97	222222222
21	122.1	14.187	14.169	25.957	34.607	42.879	34.748	34.752	0.28	21.36	2.25	31.39	0.01	0.535	0.282	121	222222222
20	170.9	12.538	12.515	26.325	35.036	43.367	34.787	34.784	0.29	26.60	2.27	33.49	0.01	0.243		169	222222225
19	196.4	12.136	12.110	26.400	35.127	43.473	34.783	34.774	0.35	27.81	2.30	33.49	0.01	0.202		195	222222225
18	246.6	11.615	11.583	26.478	35.227	43.593	34.755	34.756	0.36	29.62	2.38	33.90	0.00	0.143	0.094	245	222222222
17	298.2	10.953	10.916	26.588	35.364	43.756	34.739	34.732	0.25	32.34	2.46	34.80	0.00	0.079		296	222222225
16	396.9	9.900	9.854	26.730	35.551	43.985	34.683	34.679	0.11	38.59	2.66	35.71	-0.01	0.019		394	222222225
15	496.9	8.630	8.577	26.884	35.762	44.249	34.615	34.615	0.09	49.47	2.86	36.41	-0.01	0.007	0.016	493	222222222
14	598.9	7.353	7.294	27.038	35.975	44.517	34.569	34.567	0.09	63.57	3.13	38.71	-0.01	0.006	0.007	594	222222222
13	697.6	6.249	6.186	27.177	36.166	44.757	34.555	34.543	0.13	75.16	3.23	42.61	-0.01			692	222222255
12	797.7	5.632	5.562	27.253	36.273	44.892	34.552	34.550	0.24	82.01	3.27	44.81	-0.01	0.003	0.008	791	222222222
11	998.4	4.715	4.634	27.366	36.432	45.094	34.558	34.556	0.67	96.72	3.24	45.11	-0.01			990	222222255
10	1246.7	3.860	3.764	27.475	36.585	45.289	34.579	34.577	1.21	112.84	3.06	43.61	-0.01	0.003	0.007	1235	222222222
9	1498.8	3.255	3.144	27.551	36.693	45.428	34.599	34.597	1.59	126.44	3.02	42.51	-0.01			1485	222222255
8	1648.8	2.972	2.852	27.586	36.743	45.492	34.608	34.608	1.80							1633	222555555
7	1799.2	2.693	2.564	27.622	36.795	45.558	34.622	34.623	1.75	141.65	2.97	42.30	0.00			1781	222222255
6	2000.1	2.298	2.157	27.673	36.867	45.651	34.643	34.641	2.09	150.92	2.86	41.30	0.00	0.000	-0.005	1979	222222252
5	2499.7	1.913	1.735	27.724	36.941	45.746	34.665	34.663	2.48	158.68	2.75	39.80	0.00			2470	222222255
4	3003.2	1.673	1.452	27.754	36.986	45.806	34.676	34.678	2.89	161.00	2.69	38.90	0.00			2965	222222255
3	3505.6	1.552	1.284	27.772	37.014	45.843	34.684	34.684	3.22	157.77	2.58	38.00	0.00			3457	222222255
2	4004.8	1.489	1.170	27.783	37.031	45.866	34.688	34.688	3.45	155.66	2.50	37.50	0.00	0.001		3945	222222225
1	4203.4	1.494	1.153	27.784	37.033	45.868	34.687	34.691	3.48	155.36	2.53	37.30	0.00	0.003	0.006	4138	222222222

CRUISE: MW 893 STA: 175 DATE (D/M/Y): 29- 4-89 TIME: 0045 LAT: 9 29.92 N LONG: 116 10.01 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1501.2 M/S Depth= 4253 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.470	33.883	5.07	27.470	21.729	29.989	37.897	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.470	33.883	5.07	27.470	21.729	29.989	37.897	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.597	34.079	4.82	27.593	21.837	30.092	37.995	0.120	0.1	-4.49	0.052	35.05	2.162	20.0
30	27.553	34.081	4.92	27.546	21.853	30.109	38.013	0.180	0.3	-3.55	0.710	39.49	2.295	30.0
40	27.540	34.087	4.90	27.530	21.862	30.119	38.024	0.240	0.5	-0.62	0.386	11.53	1.240	40.0
50	27.541	34.092	4.91	27.529	21.866	30.123	38.028	0.299	0.8	0.19	0.687	10.72	1.196	50.0
100	20.334	34.560	2.41	20.315	24.344	32.790	40.872	0.566	2.8	-258.54	15.802	1896.69	15.908	100.0
125	14.656	34.721	0.29	14.638	25.837	34.469	42.726	0.634	3.5	-112.58	4.054	697.75	9.649	124.9
150	13.081	34.784	0.27	13.061	26.214	34.905	43.216	0.683	4.2	-41.49	0.697	218.32	5.397	149.8
200	11.916	34.769	0.40	11.890	26.431	35.167	43.522	0.769	5.7	-14.66	-0.378	59.84	2.826	199.6
250	11.187	34.744	0.34	11.156	26.549	35.315	43.697	0.848	7.6	-11.78	-0.427	44.08	2.425	249.3
300	10.649	34.724	0.22	10.612	26.630	35.419	43.823	0.923	9.7	-10.48	-0.391	37.89	2.248	299.0
350	10.132	34.702	0.13	10.091	26.704	35.515	43.939	0.995	12.0	-10.37	-0.634	31.93	2.064	348.7
400	9.567	34.668	0.07	9.521	26.773	35.609	44.057	1.064	14.7	-12.18	-0.532	39.96	2.309	398.4
450	8.847	34.633	0.05	8.798	26.863	35.731	44.209	1.130	17.5	-16.04	-0.736	49.77	2.577	448.1
500	8.301	34.606	0.05	8.248	26.927	35.820	44.321	1.192	20.5	-14.37	-0.909	37.96	2.250	497.8
600	6.978	34.567	0.05	6.921	27.089	36.043	44.601	1.305	26.9	-9.11	0.021	32.90	2.095	597.1
700	6.219	34.558	0.08	6.156	27.183	36.174	44.766	1.407	33.6	-5.90	-0.058	19.01	1.593	696.3
800	5.561	34.556	0.23	5.492	27.265	36.288	44.910	1.501	40.8	-6.90	0.012	23.13	1.757	795.5
900	4.979	34.557	0.46	4.905	27.335	36.387	45.037	1.588	48.3	-4.59	0.042	15.56	1.441	894.6
1000	4.604	34.564	0.67	4.524	27.383	36.454	45.122	1.670	56.2	-3.62	0.052	12.48	1.290	993.7
1200	3.916	34.580	1.06	3.824	27.470	36.577	45.278	1.821	73.2	-3.09	0.090	11.31	1.229	1191.7
1400	3.452	34.592	1.38	3.347	27.527	36.658	45.382	1.958	91.4	-2.34	0.059	8.32	1.054	1389.4
1600	3.006	34.606	1.69	2.889	27.581	36.736	45.483	2.086	111.0	-2.12	0.087	8.20	1.046	1587.0
1800	2.608	34.625	1.83	2.479	27.632	36.809	45.576	2.204	131.4	-2.19	0.087	8.45	1.062	1784.4
2000	2.287	34.639	2.14	2.146	27.671	36.866	45.650	2.312	152.3	-1.22	0.072	5.16	0.830	1981.6
2200	2.066	34.653	2.30	1.911	27.700	36.908	45.704	2.414	174.1	-1.03	0.061	4.45	0.770	2178.6
2400	1.917	34.662	2.48	1.747	27.721	36.938	45.742	2.511	197.0	-0.65	0.035	2.81	0.613	2375.5
2600	1.854	34.667	2.59	1.667	27.730	36.951	45.760	2.606	221.1	-0.28	0.013	1.19	0.399	2572.1
2800	1.811	34.670	2.66	1.606	27.737	36.962	45.773	2.701	247.2	-0.50	0.023	2.18	0.539	2768.6
3000	1.716	34.674	2.82	1.494	27.749	36.980	45.797	2.794	274.8	-0.59	0.023	2.52	0.580	2964.9
3200	1.633	34.679	3.01	1.394	27.760	36.996	45.819	2.886	303.7	-0.45	0.019	2.01	0.518	3161.0
3400	1.578	34.682	3.14	1.320	27.768	37.008	45.834	2.976	334.1	-0.31	0.014	1.44	0.438	3356.9
3600	1.535	34.685	3.27	1.257	27.775	37.018	45.848	3.065	366.0	-0.29	0.012	1.37	0.427	3552.6
3800	1.504	34.687	3.38	1.206	27.780	37.026	45.859	3.155	399.7	-0.25	0.009	1.18	0.397	3748.2
4000	1.503	34.688	3.44	1.184	27.782	37.030	45.863	3.244	435.4	-0.10	0.004	0.48	0.254	3943.6
4200	1.512	34.688	3.46	1.171	27.783	37.032	45.866	3.335	473.3	-0.03	0.002	0.17	0.152	4138.9
4345	1.526	34.688	3.47	1.168	27.783	37.032	45.867	3.402	502.3	-0.03	0.002	0.17	0.000	4280.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.2	27.618	27.616	21.844	30.098	38.001	34.099	34.098	4.86	1.31	0.29	-0.01	0.01	1.652	0.870	6	222222222
23	46.3	27.567	27.557	21.882	30.138	38.041	34.124	34.124	4.95	1.21	0.28	-0.01	0.01	1.626	0.886	46	222222222
22	97.7	15.872	15.856	25.610	34.198	42.414	34.777	34.686	0.84	17.63	2.01	26.49	0.01	0.795	0.452	97	222222222
21	121.9	13.192	13.175	26.231	34.916	43.223	34.835	34.772	0.15	25.49	2.39	32.49	0.01	0.322	0.166	121	222222222
20	147.0	12.464	12.444	26.330	35.044	43.378	34.776	34.781	0.32	27.50	2.38	33.19	0.01	0.230	0.112	146	222222222
19	172.4	11.964	11.941	26.421	35.156	43.508	34.769	34.768	0.39	29.22	2.38	33.49	0.01	0.184		171	222222225
18	196.1	11.723	11.698	26.455	35.199	43.561	34.753	34.762	0.41	29.62	2.39	33.49	0.01	0.162	0.091	194	222222222
17	247.2	10.995	10.965	26.582	35.356	43.746	34.742	34.738	0.32	32.04	2.46	34.50	0.00	0.093		245	222222225
16	297.6	10.518	10.482	26.648	35.442	43.851	34.717	34.718	0.22	34.56	2.55	35.10	0.00	0.056		295	222222225
15	396.8	9.527	9.482	26.788	35.625	44.074	34.678	34.666	0.09	41.71	2.77	35.60	0.00	0.013		394	222222225
14	497.6	8.333	8.281	26.932	35.823	44.322	34.618	34.609	0.06	54.00	2.99	35.20	0.00	0.006		494	222222225
13	597.6	6.981	6.924	27.089	36.043	44.601	34.568	34.564	0.09	67.20	3.20	39.60	0.00	0.004		593	222222225
12	697.6	6.170	6.108	27.193	36.185	44.780	34.562	34.556	0.13	75.76	3.27	43.10	0.00	0.001	0.005	692	222222222
11	797.8	5.473	5.404	27.275	36.302	44.929	34.556	34.555	0.29	84.93	3.29	44.40	0.00			791	222222255
10	996.6	4.594	4.514	27.384	36.455	45.124	34.563	34.562	0.73	99.04	3.25	44.40	0.00	0.010		988	222222225
9	1247.6	3.749	3.654	27.494	36.609	45.318	34.588	34.584	1.19	115.96	3.17	43.20	0.00			1236	222222255
8	1546.2	3.070	2.957	27.570	36.721	45.465	34.600	34.603	1.68	130.98	3.01	41.50	0.00			1531	222222255
7	1749.1	2.631	2.507	27.627	36.802	45.568	34.621		1.79	142.46	2.99	41.21	-0.01			1731	252222255
6	2000.7	2.253	2.113	27.675	36.872	45.658	34.641	34.641	2.14	150.22	2.89	40.11	-0.01	0.001	0.007	1979	222222222
5	2499.7	1.885	1.707	27.726	36.945	45.752	34.666	34.667	2.53	159.18	2.77	39.31	-0.01			2470	222222255
4	3002.5	1.716	1.494	27.750	36.980	45.798	34.675	34.677	2.82	160.70	2.70	39.00	0.00	0.000	0.001	2964	222222252
3	3504.2	1.558	1.290	27.771	37.013	45.841	34.683	34.681	3.24	157.67	2.62	38.00	0.00			3455	222222255
2	4006.1	1.503	1.184	27.782	37.030	45.864	34.688	34.688	3.40	155.56	2.55	37.30	0.00	0.000	-0.002	3946	222222252
1	4348.9	1.526	1.168	27.783	37.031	45.866	34.687	34.686	3.47	155.15	2.54	36.70	0.00	0.002	0.004	4280	222222222

CRUISE: MW 893 STA: 176 DATE (D/M/Y): 29- 4-89 TIME: 0843 LAT: 9 29.85 N LONG: 115 19.93 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1498.7 M/S Depth= 3921 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.587	34.100	5.01	27.587	21.854	30.109	38.012	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.587	34.100	5.01	27.587	21.854	30.109	38.012	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.619	34.102	4.91	27.614	21.847	30.101	38.004	0.119	0.1	0.63	0.978	12.51	1.292	20.0
30	27.629	34.117	4.83	27.622	21.856	30.110	38.012	0.179	0.3	-1.51	1.378	35.88	2.188	30.0
40	27.560	34.122	4.85	27.550	21.882	30.138	38.042	0.238	0.5	-15.43	1.583	145.23	4.402	40.0
50	27.298	34.324	4.91	27.286	22.120	30.379	38.287	0.297	0.8	-26.86	18.731	534.73	8.447	50.0
100	16.285	34.697	0.48	16.269	25.453	34.028	42.231	0.521	2.4	-217.15	6.874	1372.15	13.531	99.9
125	13.227	34.779	0.19	13.210	26.180	34.865	43.171	0.574	3.0	-57.66	1.115	317.35	6.507	124.8
150	12.549	34.783	0.23	12.529	26.319	35.030	43.361	0.619	3.6	-23.93	-0.455	104.57	3.735	149.7
200	11.688	34.761	0.34	11.663	26.467	35.213	43.576	0.702	5.1	-16.07	-0.482	63.35	2.907	199.5
250	10.996	34.737	0.23	10.965	26.578	35.352	43.742	0.779	6.9	-10.57	-0.493	37.04	2.223	249.2
300	10.633	34.720	0.13	10.597	26.630	35.419	43.824	0.853	9.0	-8.14	-0.319	29.07	1.970	299.0
350	10.079	34.693	0.13	10.038	26.706	35.520	43.946	0.925	11.3	-11.08	-0.697	33.68	2.120	348.7
400	9.327	34.650	0.07	9.282	26.799	35.645	44.103	0.994	14.0	-14.62	-0.750	45.59	2.466	398.4
450	8.797	34.631	0.05	8.749	26.870	35.740	44.219	1.059	16.8	-13.03	-0.458	42.71	2.387	448.1
500	8.237	34.606	0.04	8.185	26.937	35.832	44.335	1.120	19.8	-15.12	-0.733	43.91	2.421	497.7
600	7.036	34.563	0.07	6.978	27.078	36.030	44.585	1.233	26.1	-7.97	0.055	29.47	1.983	597.0
700	6.177	34.550	0.09	6.114	27.183	36.176	44.770	1.336	32.9	-6.99	0.094	25.69	1.852	696.2
800	5.607	34.551	0.25	5.538	27.256	36.276	44.897	1.430	40.1	-4.77	-0.024	15.21	1.425	795.4
900	5.086	34.553	0.50	5.011	27.320	36.366	45.011	1.519	47.8	-5.43	0.061	18.75	1.582	894.5
1000	4.619	34.560	0.73	4.539	27.379	36.449	45.116	1.601	55.8	-4.34	0.076	15.04	1.417	993.6
1200	3.874	34.579	1.10	3.782	27.474	36.582	45.286	1.752	72.6	-3.20	0.094	11.66	1.248	1191.6
1400	3.339	34.596	1.42	3.235	27.540	36.677	45.407	1.888	90.6	-2.15	0.067	7.84	1.023	1389.4
1600	2.985	34.609	1.77	2.790	27.592	36.753	45.505	2.013	109.8	-2.40	0.087	9.00	1.096	1587.0
1800	2.515	34.627	1.99	2.388	27.641	36.823	45.595	2.128	129.6	-1.37	0.075	5.61	0.865	1784.3
2000	2.221	34.644	2.12	2.081	27.680	36.879	45.666	2.234	150.3	-1.52	0.084	6.34	0.920	1981.5
2200	2.026	34.656	2.32	1.872	27.706	36.916	45.714	2.334	171.5	-0.74	0.038	3.06	0.639	2178.6
2400	1.923	34.662	2.46	1.753	27.720	36.936	45.741	2.430	194.1	-0.50	0.027	2.16	0.537	2375.4
2600	1.851	34.667	2.57	1.664	27.731	36.952	45.761	2.525	218.3	-0.38	0.017	1.60	0.462	2572.0
2800	1.768	34.671	2.70	1.565	27.742	36.968	45.782	2.619	244.2	-0.59	0.025	2.50	0.578	2768.5
3000	1.670	34.676	2.88	1.450	27.754	36.987	45.807	2.711	271.5	-0.63	0.026	2.74	0.605	2964.8
3200	1.608	34.680	3.04	1.370	27.763	37.000	45.824	2.801	300.0	-0.38	0.018	1.73	0.481	3160.9
3400	1.562	34.683	3.17	1.304	27.770	37.011	45.838	2.891	330.1	-0.27	0.013	1.26	0.409	3356.8
3600	1.546	34.684	3.25	1.268	27.773	37.016	45.846	2.980	362.0	-0.12	0.005	0.57	0.275	3552.6
3800	1.554	34.685	3.28	1.255	27.775	37.019	45.849	3.070	396.1	-0.07	0.004	0.34	0.214	3748.1
3969	1.565	34.685	3.29	1.248	27.776	37.020	45.850	3.148	426.7	-0.03	0.000	0.34	0.000	3913.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.2	27.588	27.587	21.873	30.128	38.031	34.126	34.125	4.97	0.81	0.24	0.10	0.00	1.644	0.875	6	222222222
23	47.9	27.420	27.410	21.974	30.233	38.139	34.184	34.168	4.94	0.81	0.25	0.10	0.00	1.657	0.885	47	222222222
22	71.6	24.995	24.980	22.794	31.112	39.075	34.265	34.296	3.78	3.22	0.72	5.59	1.41	1.588	0.838	71	222222222
21	97.8	17.018	17.003	25.322	33.871	42.051	34.749	34.691	1.30	14.10	1.78	23.47	0.63	0.954	0.519	97	222222222
20	122.3	13.886	13.868	26.033	34.693	42.977	34.764	34.774	0.09	24.18	2.40	33.30	0.00	0.327	0.207	121	222222222
19	147.1	12.466	12.446	26.340	35.055	43.388	34.790	34.780	0.20	26.40	2.39	34.10	0.00	0.213	0.130	146	222222222
18	171.0	11.980	11.958	26.423	35.157	43.508	34.775	34.770	0.27	28.01	2.42	34.30	0.00	0.169		169	222222225
17	196.3	11.547	11.522	26.491	35.243	43.611	34.758	34.751	0.38	29.32	2.40	34.30	0.00	0.140	0.087	195	222222222
16	246.4	10.809	10.779	26.602	35.384	43.781	34.726	34.726	0.16	32.64	2.54	35.30	0.00	0.060		244	222222225
15	297.1	10.419	10.384	26.679	35.478	43.890	34.735	34.708	0.12	34.46	2.60	35.50	0.00	0.040	0.027	295	222222222
14	396.7	9.258	9.214	26.814	35.664	44.124	34.656	34.647	0.07	43.12	2.83	35.90	0.00	0.010	0.010	394	222222222
13	496.6	8.221	8.170	26.937	35.833	44.337	34.603	34.606	0.03	53.30	3.04	35.80	0.00	0.003		493	222222225
12	597.4	6.966	6.909	27.091	36.046	44.605	34.568	34.562	0.06	66.50	3.19	40.30	0.00			593	222222255
11	698.1	6.152	6.089	27.182	36.176	44.771	34.545	34.552	0.12	75.46	3.26	43.59	0.01			692	222222255
10	796.6	5.456	5.388	27.277	36.305	44.932	34.555	34.548	0.33	83.72	3.26	45.09	0.01			790	222222255
9	996.8	4.629	4.549	27.376	36.446	45.112	34.558	34.559	0.71	97.12	3.23	44.89	0.01			988	222222255
8	1397.9	3.368	3.264	27.538	36.674	45.402	34.596	34.592	1.39	124.33	3.08	43.09	0.01			1385	222222255
7	1799.6	2.504	2.377	27.631	36.814	45.587	34.613	34.630	1.94	143.77	2.93	41.79	0.01	-0.004	-0.005	1781	222222222
6	1899.7	2.401	2.267	27.657	36.845	45.624	34.634	34.633	1.97	147.80	2.92	41.59	0.01	-0.002	-0.005	1880	222222222
5	2400.2	1.919	1.749	27.721	36.937	45.742	34.663	34.662	2.45	157.57	2.77	40.09	0.01			2373	222222255
4	2801.5	1.776	1.572	27.741	36.967	45.781	34.671	34.671	2.70	159.99	2.72	39.39	0.01			2767	222222255
3	3202.1	1.599	1.360	27.764	37.002	45.827	34.681	34.678	3.06	158.48	2.61	38.39	0.01			3160	222222255
2	3606.1	1.545	1.267	27.773	37.016	45.846	34.684	34.685	3.25	157.27	2.57	37.79	0.01			3555	222222255
1	3971.7	1.565	1.247	27.775	37.019	45.849	34.684	34.684	3.28	156.46	2.57	37.59	0.01	-0.001	-0.002	3912	222222222

CRUISE: MW 893 STA: 177 DATE (D/M/Y): 29- 4-89 TIME: 1603 LAT: 9 30.09 N LONG: 114 29.94 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24075E-04 1/S SOUND SPEED= 1499.2 M/S Depth= 4027 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.539	34.121	5.10	27.539	21.886	30.142	38.046	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.539	34.121	5.10	27.539	21.886	30.142	38.046	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	27.529	34.127	4.93	27.524	21.895	30.151	38.055	0.118	0.1	-0.40	0.008	3.23	0.656	20.0
30	27.525	34.126	4.99	27.518	21.896	30.152	38.057	0.178	0.3	-0.86	0.170	9.51	1.126	30.0
40	27.435	34.267	4.98	27.426	22.032	30.289	38.194	0.237	0.5	-47.99	33.569	957.70	11.302	40.0
50	26.821	34.401	4.61	26.810	22.329	30.600	38.517	0.293	0.7	-153.41	-26.137	674.21	9.483	50.0
100	15.131	34.710	0.57	15.116	25.724	34.339	42.580	0.481	2.1	-138.11	5.156	837.80	10.571	99.9
125	13.013	34.789	0.20	12.996	26.231	34.924	43.238	0.531	2.7	-55.74	0.070	280.26	6.114	124.8
150	12.235	34.782	0.27	12.216	26.379	35.102	43.445	0.575	3.3	-18.64	-0.645	74.91	3.161	149.7
200	11.437	34.756	0.44	11.412	26.510	35.266	43.639	0.656	4.7	-13.53	-0.490	51.28	2.615	199.4
250	10.967	34.738	0.32	10.937	26.583	35.359	43.750	0.732	6.5	-11.65	-0.475	41.94	2.365	249.2
300	10.442	34.715	0.17	10.406	26.659	35.457	43.869	0.805	8.5	-7.93	-0.365	27.04	1.899	298.9
350	9.914	34.687	0.15	9.873	26.729	35.550	43.983	0.876	10.9	-14.34	-0.831	44.13	2.426	348.6
400	9.275	34.649	0.10	9.231	26.807	35.655	44.115	0.943	13.5	-9.55	-0.485	29.41	1.981	398.3
450	8.704	34.618	0.17	8.656	26.874	35.748	44.232	1.008	16.2	-12.92	-0.726	37.15	2.226	448.0
500	8.117	34.596	0.09	8.065	26.947	35.848	44.357	1.069	19.2	-14.47	-0.352	48.33	2.539	497.7
600	7.001	34.570	0.07	6.944	27.088	36.041	44.598	1.181	25.5	-7.81	-0.144	25.31	1.837	597.0
700	6.220	34.555	0.10	6.157	27.181	36.171	44.764	1.283	32.2	-7.72	-0.091	24.77	1.818	696.2
800	5.620	34.555	0.23	5.551	27.257	36.277	44.897	1.378	39.5	-5.46	0.029	18.59	1.575	795.4
900	5.014	34.557	0.46	4.939	27.331	36.382	45.030	1.465	47.0	-5.03	0.007	16.58	1.487	894.5
1000	4.583	34.563	0.68	4.503	27.385	36.457	45.126	1.547	55.0	-4.65	0.088	16.40	1.479	993.6
1200	3.952	34.579	1.04	3.860	27.466	36.570	45.270	1.699	72.0	-3.29	0.113	12.39	1.286	1191.5
1400	3.391	34.596	1.42	3.288	27.536	36.670	45.397	1.836	90.1	-2.70	0.082	9.85	1.146	1389.3
1600	2.877	34.611	1.79	2.762	27.597	36.759	45.512	1.961	109.2	-2.45	0.086	9.12	1.103	1586.9
1800	2.520	34.629	1.94	2.393	27.642	36.824	45.595	2.075	129.0	-1.76	0.088	7.08	0.972	1784.3
2000	2.184	34.646	2.16	2.045	27.685	36.885	45.675	2.180	149.4	-1.47	0.078	6.07	0.900	1981.5
2200	1.986	34.659	2.38	1.832	27.712	36.924	45.724	2.278	170.4	-0.85	0.049	3.62	0.695	2178.5
2400	1.881	34.666	2.52	1.712	27.726	36.945	45.751	2.373	192.7	-0.39	0.023	1.69	0.475	2375.3
2600	1.844	34.669	2.59	1.657	27.733	36.954	45.763	2.467	216.6	-0.25	0.011	1.03	0.371	2572.0
2800	1.806	34.672	2.66	1.601	27.739	36.964	45.776	2.561	242.5	-0.31	0.014	1.33	0.422	2768.4
3000	1.737	34.675	2.80	1.515	27.749	36.978	45.794	2.655	270.2	-0.61	0.025	2.66	0.596	2964.7
3200	1.628	34.680	3.00	1.388	27.761	36.997	45.820	2.746	299.2	-0.48	0.019	2.12	0.532	3160.8
3400	1.595	34.682	3.11	1.337	27.767	37.006	45.832	2.837	329.6	-0.26	0.013	1.21	0.402	3356.7
3600	1.566	34.684	3.21	1.288	27.772	37.014	45.842	2.927	361.7	-0.13	0.006	0.61	0.286	3552.5
3800	1.567	34.685	3.26	1.267	27.774	37.017	45.847	3.018	396.0	-0.09	0.003	0.40	0.232	3748.1
4000	1.577	34.686	3.29	1.256	27.775	37.019	45.849	3.109	432.6	-0.03	0.002	0.40	0.000	3943.5
4075	1.584	34.686	3.27	1.255	27.776	37.019	45.849	3.144	446.9	-0.02	0.004	0.40	0.000	4016.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	27.556	27.555	21.890	30.145	38.049	34.134	34.127	4.83	0.40	0.22	0.30	0.00	1.662	0.868	6	222222222
23	46.8	25.810	25.800	22.330	30.630	38.576	33.983	34.282	4.48	1.11	0.39	1.77	0.33	1.631	0.921	46	222222222
22	97.9	14.396	14.381	25.919	34.560	42.826	34.756	34.757	0.13	22.37	2.36	31.79	0.01	0.422	0.222	97	222222222
21	121.6	12.885	12.868	26.275	34.973	43.291	34.813	34.786	0.12	25.79	2.41	33.29	0.01	0.243	0.106	120	222222222
20	145.9	12.258	12.239	26.386	35.108	43.450	34.797	34.778	0.19	27.71	2.41	33.69	0.01	0.169	0.086	145	222222222
19	170.1	11.819	11.797	26.457	35.197	43.555	34.780	34.769	0.28	28.81	2.41	34.09	0.01	0.143	0.090	169	222222222
18	197.3	11.470	11.445	26.512	35.266	43.637	34.765	34.751	0.36	29.72	2.40	34.19	0.01	0.129	0.084	196	222222222
17	248.0	11.013	10.982	26.584	35.358	43.747	34.750	34.737	0.28	30.83	2.47	34.69	0.01	0.088	0.060	246	222222222
16	296.5	10.438	10.403	26.665	35.463	43.875	34.722	34.718	0.15	34.46	2.59	35.21	-0.01	0.043		294	222222225
15	396.3	9.304	9.260	26.810	35.657	44.115	34.659	34.646	0.10	42.62	2.79	35.61	-0.01	0.010	0.018	393	222222222
14	496.6	8.189	8.138	26.926	35.824	44.330	34.583	34.596	0.08	53.50	2.98	36.41	-0.01			493	222222255
13	597.5	7.029	6.972	27.090	36.042	44.598	34.578	34.569	0.09	65.19	3.15	40.21	-0.01	0.003		593	222222225
12	697.4	6.169	6.107	27.198	36.191	44.785	34.568	34.551	0.09	75.56	3.26	43.01	-0.01	0.002	0.009	692	222222222
11	797.2	5.558	5.489	27.265	36.287	44.910	34.555	34.554	0.25	82.92	3.28	45.00	0.00			791	222222255
10	996.3	4.516	4.436	27.402	36.477	45.149	34.575	34.561	0.74	99.04	3.22	44.90	0.00			988	222222255
9	1247.0	3.740	3.645	27.501	36.617	45.327	34.597	34.586	1.17	116.06	3.14	43.80	0.00			1236	222222255
8	1500.0	3.106	2.997	27.577	36.727	45.468	34.614	34.604	1.64	128.96	3.01	42.50	0.00	-0.001	0.007	1486	222222222
7	1623.5	2.844	2.728	27.609	36.773	45.528	34.624	34.612	1.83	134.40	2.96	41.90	0.00			1608	222222255
6	1747.8	2.585	2.461	27.643	36.821	45.589	34.637	34.625	1.95	141.55	2.95	41.80	0.00			1730	222222255
5	2250.4	1.954	1.797	27.718	36.932	45.734	34.664	34.660	2.46	156.97	2.80	40.00	0.00			2225	222222255
4	2751.3	1.815	1.615	27.746	36.970	45.781	34.682		2.66	160.60	2.72	39.40	0.00	-0.003		2718	252222225
3	3252.1	1.614	1.370	27.771	37.009	45.832	34.691	34.682	3.07	159.59	2.64	38.50	0.00			3209	222222255
2	3754.5	1.564	1.270	27.774	37.017	45.846	34.686	34.684	3.28	157.88	2.59	38.00	0.00			3700	222222255
1	4077.9	1.585	1.255	27.777	37.020	45.850	34.687	34.684		156.67	2.58	37.90	0.00	-0.002	-0.002	4016	225222222

CRUISE: MW 893 STA: 178 DATE (D/M/Y): 29- 4-89 TIME: 2318 LAT: 9 29.92 N LONG: 113 40.07 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1494.9 M/S Depth= 3164 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.734	34.412	4.62	27.734	22.042	30.290	38.187	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.734	34.412	4.62	27.734	22.042	30.290	38.187	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.746	34.410	5.03	27.741	22.037	30.285	38.182	0.116	0.1	-0.41	0.453	11.20	1.222	20.0
30	27.746	34.431	5.04	27.739	22.054	30.302	38.198	0.173	0.3	1.03	6.976	115.59	3.927	30.0
40	27.753	34.488	5.04	27.744	22.095	30.342	38.238	0.231	0.5	-12.03	0.497	100.62	3.664	40.0
50	25.963	34.182	4.77	25.952	22.433	30.727	38.668	0.288	0.7	-293.69	-30.194	1616.92	14.688	50.0
100	14.312	34.781	0.18	14.298	25.955	34.599	42.868	0.468	2.0	-124.03	4.834	751.80	10.015	99.9
125	13.135	34.787	0.16	13.118	26.205	34.893	43.203	0.516	2.6	-39.15	0.336	195.44	5.106	124.8
150	12.454	34.791	0.19	12.434	26.343	35.058	43.392	0.560	3.2	-16.60	-0.449	68.82	3.030	149.7
200	11.556	34.759	0.42	11.530	26.491	35.242	43.610	0.642	4.7	-13.12	-0.382	51.77	2.628	199.4
250	10.919	34.737	0.37	10.888	26.591	35.369	43.762	0.719	6.4	-10.69	-0.420	38.83	2.276	249.2
300	10.437	34.717	0.31	10.401	26.662	35.460	43.872	0.793	8.5	-9.74	-0.425	33.58	2.117	298.9
350	9.923	34.692	0.14	9.883	26.732	35.552	43.985	0.863	10.8	-9.53	-0.514	30.15	2.006	348.6
400	9.365	34.661	0.10	9.321	26.801	35.646	44.102	0.931	13.4	-16.56	-0.881	50.66	2.600	398.3
450	8.674	34.625	0.07	8.626	26.884	35.760	44.244	0.995	16.2	-13.67	-0.700	40.40	2.322	448.0
500	7.935	34.591	0.07	7.884	26.970	35.880	44.396	1.055	19.1	-10.55	-0.366	32.92	2.096	497.7
600	6.859	34.567	0.06	6.802	27.105	36.065	44.628	1.166	25.3	-10.30	-0.202	32.67	2.088	596.9
700	6.084	34.555	0.15	6.021	27.199	36.196	44.794	1.266	31.9	-6.14	-0.024	20.25	1.644	696.2
800	5.571	34.553	0.31	5.502	27.261	36.284	44.906	1.359	39.0	-4.40	0.009	14.44	1.388	795.3
900	5.071	34.556	0.54	4.996	27.324	36.371	45.017	1.446	46.6	-4.21	0.044	14.29	1.381	894.5
1000	4.673	34.562	0.79	4.592	27.375	36.442	45.107	1.529	54.6	-3.40	0.062	11.88	1.259	993.5
1200	3.947	34.580	1.12	3.854	27.467	36.572	45.272	1.681	71.7	-3.49	0.092	12.59	1.296	1191.5
1400	3.383	34.596	1.41	3.279	27.537	36.671	45.399	1.818	89.8	-2.05	0.057	7.40	0.994	1389.3
1600	2.964	34.609	1.72	2.848	27.587	36.744	45.493	1.945	109.1	-2.28	0.077	8.49	1.064	1586.9
1800	2.601	34.623	1.92	2.473	27.631	36.808	45.576	2.061	129.4	-1.91	0.090	7.59	1.006	1784.3
2000	2.280	34.641	2.08	2.139	27.673	36.868	45.653	2.169	150.2	-1.41	0.075	5.83	0.882	1981.5
2200	2.035	34.655	2.32	1.881	27.705	36.914	45.712	2.270	171.8	-0.87	0.050	3.71	0.704	2178.5
2400	1.908	34.664	2.48	1.738	27.723	36.940	45.745	2.366	194.3	-0.54	0.028	2.30	0.554	2375.3
2600	1.855	34.668	2.56	1.668	27.731	36.952	45.760	2.461	218.5	-0.35	0.018	1.53	0.451	2572.0
2800	1.804	34.671	2.66	1.600	27.739	36.964	45.776	2.555	244.4	-0.34	0.014	1.45	0.440	2768.4
3000	1.725	34.675	2.79	1.503	27.749	36.979	45.796	2.648	272.1	-0.68	0.028	2.95	0.627	2964.7
3200	1.649	34.679	2.95	1.410	27.759	36.994	45.816	2.740	301.0	-0.32	0.012	2.95	0.000	3160.8
3273	1.640	34.679	2.98	1.394	27.760	36.996	45.819	2.773	312.0	-0.36	0.016	2.95	0.000	3232.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	27.732	27.730	22.038	30.287	38.184	34.406	34.405	5.05	1.11	0.24	0.09	0.01	1.650	0.909	6	222222222
23	47.4	24.693	24.683	22.813	31.140	39.111	34.172	34.218	3.99	3.02	0.59	4.15	0.65	1.636	0.871	47	222222222
22	96.1	13.296	13.282	26.173	34.855	43.158	34.788	34.791	0.10	25.19	2.40	32.87	0.13	0.302		95	222222225
21	121.3	12.513	12.497	26.342	35.054	43.385	34.804	34.788	0.14	27.20	2.41	34.09	0.01	0.193	0.110	120	222222222
20	148.0	12.090	12.071	26.402	35.131	43.479	34.775	34.775	0.24	28.01	2.39	34.29	0.01	0.167		147	222222225
19	170.7	11.682	11.660	26.480	35.226	43.589	34.776	34.766	0.38	29.12	2.39	34.19	0.01	0.150		169	222222225
18	197.2	11.364	11.339	26.525	35.284	43.659	34.757	34.753	0.44	29.72	2.37	34.19	0.01	0.137		195	222222225
17	246.8	10.768	10.738	26.615	35.399	43.797	34.733	34.733	0.33	32.44	2.48	35.09	0.01	0.086	0.062	245	222222222
16	296.9	10.339	10.304	26.673	35.475	43.891	34.710	34.718	0.29	34.36	2.56	35.69	0.01	0.056		295	222222225
15	397.3	9.192	9.148	26.818	35.670	44.133	34.646	34.653	0.09	43.32	2.80	36.29	0.01	0.007	0.017	394	222222222
14	497.4	7.959	7.908	26.968	35.876	44.392	34.593	34.590	0.07	57.02	3.06	36.90	0.00	0.008	0.009	494	222222222
13	596.8	6.851	6.795	27.107	36.067	44.631	34.568	34.565	0.07	67.30	3.18	41.20	0.00			592	222222255
12	696.2	6.115	6.052	27.193	36.188	44.785	34.552	34.555	0.17	75.26	3.22	44.20	0.00	-0.001		691	222222225
11	797.4	5.466	5.398	27.273	36.301	44.928	34.552	34.552	0.37	83.02	3.24	45.60	0.00			791	222222255
10	897.8	5.007	4.932	27.332	36.382	45.031	34.557	34.557	0.62	90.07	3.21	45.50	0.00			890	222222255
9	996.9	4.639	4.558	27.380	36.449	45.115	34.564	34.562	0.80	96.32	3.18	45.10	0.00	0.000	0.005	988	222222252
8	1199.0	3.897	3.805	27.474	36.581	45.283	34.582	34.580	1.11	111.63	3.14	44.21	-0.01			1188	222222255
7	1497.8	3.190	3.080	27.560	36.705	45.443	34.602	34.605	1.56	127.55	3.01	42.91	-0.01			1484	222222255
6	1799.1	2.623	2.495	27.630	36.806	45.572	34.624	34.621	1.92	140.34	2.93	42.01	-0.01			1781	222222255
5	2099.0	2.152	2.005	27.689	36.892	45.683	34.648	34.648	2.20	153.04	2.84	41.11	-0.01	0.006		2076	222222225
4	2400.9	1.910	1.740	27.723	36.940	45.745	34.664	34.665	2.49	158.48	2.76	40.11	-0.01			2373	222222255
3	2702.1	1.831	1.635	27.735	36.958	45.768	34.670	34.670	2.62	159.89	2.72	39.61	-0.01			2669	222222255
2	3003.0	1.728	1.506	27.749	36.979	45.796	34.675	34.674	2.81	160.70	2.69	39.01	-0.01			2964	222222255
1	3275.6	1.640	1.393	27.759	36.995	45.818	34.678	34.679	3.00	159.89	2.63	38.71	-0.01	0.000	-0.002	3232	222222252

CRUISE: MW 893 STA: 179 DATE (D/M/Y): 30- 4-89 TIME: 0601 LAT: 9 30.04 N LONG: 112 50.00 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24073E-04 1/S SOUND SPEED= 1498.2 M/S Depth= 3870 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.681	34.380	4.93	27.681	22.034	30.284	38.182	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.681	34.380	4.93	27.681	22.034	30.284	38.182	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	27.714	34.402	5.10	27.709	22.042	30.291	38.188	0.116	0.1	1.98	1.591	13.05	1.320	20.0
30	27.742	34.422	5.02	27.735	22.049	30.297	38.193	0.173	0.3	3.32	2.805	24.36	1.803	30.0
40	27.761	34.452	4.90	27.751	22.065	30.313	38.209	0.231	0.5	-19.33	0.314	153.09	4.519	40.0
50	25.771	34.396	4.39	25.760	22.654	30.951	38.893	0.287	0.7	-338.15	0.315	2470.17	18.152	50.0
100	13.966	34.794	0.42	13.952	26.039	34.696	42.975	0.444	1.9	-79.69	1.940	440.72	7.667	99.9
125	12.796	34.788	0.48	12.779	26.273	34.974	43.296	0.491	2.4	-36.13	-0.503	168.18	4.736	124.8
150	12.249	34.778	0.57	12.229	26.374	35.097	43.438	0.534	3.0	-17.25	-0.501	68.87	3.031	149.6
200	11.392	34.753	0.65	11.367	26.517	35.274	43.649	0.615	4.4	-14.28	-0.449	55.24	2.715	199.4
250	10.788	34.732	0.42	10.757	26.611	35.394	43.791	0.690	6.2	-10.42	-0.388	37.89	2.248	249.1
300	10.363	34.714	0.26	10.327	26.673	35.474	43.889	0.763	8.2	-8.12	-0.369	27.60	1.919	298.9
350	9.878	34.688	0.16	9.837	26.737	35.559	43.993	0.833	10.5	-11.37	-0.577	36.59	2.209	348.6
400	9.361	34.663	0.12	9.316	26.804	35.648	44.104	0.901	13.1	-8.90	-0.446	27.83	1.927	398.3
450	8.890	34.639	0.10	8.841	26.861	35.727	44.203	0.965	15.9	-9.42	-0.367	30.57	2.019	448.0
500	8.250	34.607	0.09	8.198	26.936	35.831	44.334	1.028	18.9	-12.38	-0.659	35.46	2.175	497.6
600	7.180	34.573	0.08	7.121	27.066	36.010	44.560	1.142	25.4	-10.81	-0.269	34.19	2.136	596.9
700	6.241	34.559	0.12	6.178	27.181	36.171	44.762	1.245	32.2	-8.95	-0.060	29.64	1.988	696.2
800	5.484	34.555	0.30	5.416	27.273	36.300	44.926	1.339	39.3	-6.98	-0.001	22.92	1.749	795.3
900	4.955	34.559	0.52	4.881	27.340	36.393	45.044	1.425	46.8	-4.27	0.069	14.94	1.412	894.4
1000	4.577	34.565	0.64	4.497	27.387	36.459	45.128	1.506	54.6	-2.73	0.042	9.41	1.120	993.5
1200	3.949	34.580	1.08	3.857	27.467	36.572	45.271	1.658	71.6	-3.39	0.093	12.32	1.282	1191.5
1400	3.420	34.596	1.41	3.316	27.533	36.666	45.392	1.795	89.9	-2.43	0.081	9.03	1.098	1389.3
1600	3.037	34.608	1.67	2.920	27.580	36.733	45.479	1.923	109.3	-2.06	0.046	7.21	0.981	1586.9
1800	2.638	34.622	1.91	2.509	27.627	36.802	45.568	2.041	129.9	-1.71	0.077	6.77	0.951	1784.3
2000	2.334	34.639	2.06	2.192	27.667	36.859	45.641	2.151	151.2	-1.63	0.103	7.08	0.972	1981.5
2200	2.109	34.652	2.25	1.954	27.696	36.902	45.696	2.254	173.1	-1.16	0.058	4.80	0.800	2178.5
2400	1.932	34.662	2.44	1.762	27.720	36.935	45.739	2.351	196.0	-0.63	0.034	2.72	0.602	2375.3
2600	1.855	34.668	2.58	1.669	27.731	36.952	45.760	2.446	220.2	-0.29	0.014	1.23	0.404	2571.9
2800	1.828	34.670	2.64	1.623	27.736	36.959	45.770	2.541	246.2	-0.23	0.011	1.01	0.367	2768.4
3000	1.791	34.672	2.72	1.568	27.742	36.969	45.782	2.635	274.3	-0.30	0.013	1.29	0.416	2964.7
3200	1.695	34.676	2.88	1.455	27.754	36.986	45.806	2.730	304.0	-0.71	0.025	3.08	0.641	3160.8
3400	1.594	34.681	3.09	1.335	27.766	37.005	45.831	2.821	334.9	-0.51	0.020	2.30	0.554	3356.7
3600	1.534	34.684	3.26	1.256	27.774	37.018	45.848	2.911	366.9	-0.23	0.010	1.09	0.381	3552.5
3800	1.542	34.685	3.29	1.244	27.775	37.020	45.850	3.001	400.8	-0.02	0.001	1.09	0.000	3748.1
3885	1.550	34.685	3.28	1.242	27.776	37.020	45.851	3.039	415.9	-0.03	0.003	1.09	0.000	3831.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.1	27.758	27.757	22.040	30.287	38.184	34.420	34.421	5.05	1.21	0.34	0.58	0.02	1.625	0.890	6	222222222
23	46.6	25.858	25.848	22.662	30.956	38.895	34.442	34.432	4.43	2.62	0.54	2.45	0.05	1.593	0.883	46	222222222
22	72.8	16.894	16.882	25.325	33.878	42.062	34.715	34.662	0.35	17.33	2.27	29.93	0.07	0.722	0.385	72	222222222
21	96.2	13.794	13.780	26.083	34.746	43.032	34.805	34.808	0.20	23.37	2.38	32.49	0.01	0.373	0.219	95	222222222
20	122.5	12.780	12.763	26.275	34.976	43.299	34.785	34.780	0.35	25.49	2.38	33.20	0.00	0.281	0.167	121	222222222
19	147.5	12.205	12.186	26.386	35.111	43.454	34.784	34.797	0.28	27.30	2.44	33.50	0.00	0.194	0.114	146	222222222
18	171.5	11.859	11.837	26.443	35.181	43.538	34.771	34.765	0.49	27.91	2.37	33.39	0.01	0.195		170	222222225
17	196.0	11.446	11.421	26.509	35.265	43.637	34.756	34.758	0.59	29.02	2.40	33.59	0.01	0.175		194	222222225
16	247.4	10.808	10.778	26.607	35.389	43.786	34.732	34.731	0.33	31.84	2.52	34.99	0.01	0.087	0.057	245	222222222
15	296.9	10.333	10.298	26.684	35.486	43.902	34.721	34.715	0.17	34.36	2.63	35.79	0.01	0.044		295	222222225
14	396.3	9.275	9.231	26.815	35.663	44.123	34.660	34.655	0.08	43.02	2.86	35.89	0.01	0.012		393	222222225
13	497.2	8.189	8.138	26.943	35.841	44.346	34.605	34.602	0.05	45.14	3.08	36.10	0.00			493	222222255
12	622.2	6.815	6.757	27.109	36.071	44.636	34.564	34.563	0.08	66.80	3.24	41.70	0.00	0.001	0.005	617	222222222
11	897.5	4.904	4.830	27.346	36.401	45.055	34.560	34.557	0.63	91.38	3.28	45.10	0.00			890	222222255
10	947.4	4.738	4.661	27.367	36.431	45.093	34.563	34.559	0.58	95.61	3.32	45.40	0.00			939	222222255
9	997.2	4.600	4.520	27.384	36.455	45.123	34.564	34.564	0.61	98.94	3.33	45.50	0.00			989	222222255
8	1247.0	3.785	3.690	27.487	36.600	45.308	34.584	34.585	1.16	114.65	3.20	43.80	0.00			1236	222222255
7	1498.3	3.217	3.107	27.559	36.702	45.438	34.603	34.604	1.51	127.25	3.11	43.00	0.00			1484	222222255
6	1747.7	2.721	2.596	27.616	36.787	45.548	34.618	34.617	1.88	137.42	3.00	41.80	0.00	-0.001	-0.004	1730	222222222
5	2098.2	2.186	2.038	27.687	36.888	45.677	34.648	34.646	2.14	152.33	2.92	41.00	0.00			2075	222222255
4	2599.7	1.856	1.669	27.731	36.952	45.760	34.668		2.54	159.39	2.80	39.59	0.01	0.003	-0.005	2569	252222222
3	3100.8	1.753	1.521	27.748	36.977	45.793	34.675	34.674	2.77	160.49	2.75	39.09	0.01			3060	222222255
2	3604.1	1.535	1.257	27.774	37.017	45.847	34.684	34.685	3.24	158.58	2.65	37.99	0.01			3553	222222255
1	3888.0	1.549	1.241	27.776	37.020	45.851	34.685	34.684		158.18	2.63	37.89	0.01	0.001	0.001	3830	225222222

CRUISE: MW 893 STA: 180 DATE (D/M/Y): 30- 4-89 TIME: 1312 LAT: 9 29.41 N LONG: 112 0.19 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24046E-04 1/S SOUND SPEED= 1498.6 M/S Depth= 3846 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.918	34.158	5.06	27.918	21.790	30.037	37.932	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.918	34.158	5.06	27.918	21.790	30.037	37.932	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.001	34.254	4.81	27.996	21.837	30.081	37.974	0.120	0.1	4.02	7.018	93.24	3.529	20.0
30	28.022	34.321	4.75	28.015	21.882	30.124	38.016	0.180	0.3	-28.11	21.402	593.76	8.905	30.0
40	27.605	34.489	4.89	27.596	22.144	30.394	38.293	0.238	0.5	-40.21	2.458	349.20	6.829	40.0
50	26.848	34.458	4.50	26.837	22.363	30.633	38.549	0.294	0.7	-270.31	2.858	2038.41	16.499	50.0
100	13.747	34.799	0.41	13.733	26.088	34.753	43.040	0.445	1.8	-58.63	1.565	325.04	6.588	99.9
125	13.155	34.818	0.30	13.138	26.225	34.912	43.220	0.492	2.4	-28.54	-0.874	124.97	4.085	124.8
150	12.438	34.784	0.40	12.418	26.341	35.057	43.392	0.536	3.0	-19.41	-0.082	89.63	3.460	149.6
200	11.459	34.756	0.63	11.433	26.506	35.261	43.633	0.618	4.4	-16.34	-0.541	63.15	2.904	199.4
250	10.913	34.734	0.63	10.882	26.590	35.368	43.761	0.694	6.2	-13.02	-0.479	47.70	2.524	249.1
300	10.412	34.722	0.49	10.377	26.670	35.469	43.882	0.767	8.2	-7.43	-0.272	26.54	1.882	298.9
350	9.977	34.702	0.29	9.937	26.731	35.548	43.979	0.838	10.6	-11.68	-0.495	39.58	2.299	348.6
400	9.498	34.681	0.20	9.452	26.795	35.634	44.084	0.906	13.2	-11.52	-0.512	37.37	2.234	398.3
450	8.815	34.648	0.12	8.766	26.880	35.749	44.227	0.970	16.0	-12.10	-0.599	36.63	2.212	448.0
500	8.288	34.620	0.10	8.236	26.940	35.833	44.334	1.032	18.9	-9.33	-0.437	27.78	1.926	497.6
600	7.451	34.582	0.10	7.392	27.035	35.967	44.504	1.148	25.5	-11.48	-0.422	34.07	2.133	596.9
700	6.474	34.564	0.13	6.409	27.155	36.134	44.715	1.254	32.5	-10.36	-0.023	35.52	2.178	696.2
800	5.639	34.558	0.33	5.570	27.257	36.276	44.895	1.348	39.7	-5.53	-0.043	17.68	1.536	795.3
900	5.157	34.556	0.55	5.081	27.314	36.357	44.999	1.437	47.3	-5.08	0.010	16.66	1.491	894.5
1000	4.668	34.562	0.65	4.588	27.375	36.443	45.107	1.520	55.4	-4.61	0.090	16.28	1.475	993.5
1200	3.923	34.582	1.11	3.831	27.471	36.577	45.278	1.671	72.4	-2.86	0.081	10.45	1.181	1191.5
1400	3.475	34.594	1.31	3.371	27.526	36.656	45.379	1.810	90.7	-2.14	0.058	7.72	1.015	1389.3
1600	3.080	34.608	1.64	2.963	27.575	36.727	45.470	1.939	110.4	-2.18	0.077	8.25	1.049	1586.9
1800	2.705	34.619	1.92	2.576	27.618	36.790	45.553	2.059	131.2	-1.86	0.059	6.91	0.960	1784.3
2000	2.361	34.637	2.06	2.219	27.663	36.854	45.634	2.170	152.8	-1.62	0.094	6.84	0.956	1981.5
2200	2.099	34.652	2.27	1.943	27.697	36.903	45.698	2.273	174.9	-1.06	0.058	4.49	0.774	2178.5
2400	1.947	34.662	2.45	1.777	27.718	36.933	45.736	2.371	197.8	-0.55	0.030	2.39	0.565	2375.3
2600	1.884	34.666	2.55	1.697	27.728	36.947	45.754	2.467	222.3	-0.35	0.018	1.50	0.447	2572.0
2800	1.845	34.669	2.61	1.639	27.734	36.957	45.767	2.562	248.6	-0.33	0.015	1.41	0.434	2768.4
3000	1.776	34.673	2.73	1.553	27.744	36.971	45.786	2.658	276.7	-0.50	0.022	2.21	0.543	2964.7
3200	1.719	34.677	2.87	1.478	27.752	36.984	45.802	2.751	306.4	-0.38	0.014	1.66	0.471	3160.8
3400	1.654	34.679	3.00	1.394	27.760	36.996	45.819	2.845	337.8	-0.49	0.020	2.24	0.547	3356.8
3600	1.597	34.682	3.14	1.318	27.768	37.009	45.835	2.937	370.6	-0.45	0.016	2.06	0.524	3552.5
3800	1.566	34.684	3.25	1.267	27.773	37.016	45.846	3.028	405.0	-0.08	0.003	0.36	0.220	3748.1
3915	1.561	34.685	3.26	1.250	27.775	37.019	45.849	3.080	425.7	-0.14	0.007	0.36	0.000	3860.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.8	27.962	27.961	21.799	30.044	37.938	34.187	34.186	4.88	1.21	0.27	0.10	0.00	1.600	0.923	7	222222222
23	48.1	22.967	22.958	23.430	31.802	39.815	34.318		3.82	4.74	0.83	6.80	0.30	1.464	0.829	47	252222222
22	98.2	13.254	13.240	26.195	34.879	43.183	34.807	34.800	0.20	24.89	2.37	33.19	0.01	0.307	0.164	97	222222222
21	122.4	12.494	12.477	26.330	35.043	43.376	34.785	34.785	0.27	26.90	2.37	33.59	0.01	0.237		121	222222225
20	147.9	12.058	12.039	26.411	35.141	43.490	34.780	34.778	0.40	28.01	2.39	33.59	0.01	0.199		147	222222225
19	172.0	11.571	11.549	26.483	35.234	43.601	34.754	34.756	0.55	29.32	2.41	33.59	0.01	0.164	0.109	170	222222222
18	197.5	11.294	11.269	26.563	35.324	43.702	34.790	34.752	0.53	30.23	2.42	33.89	0.01	0.143	0.085	196	222222222
17	246.7	10.638	10.608	26.628	35.418	43.821	34.721	34.725	0.54	32.24	2.44	34.79	0.01	0.104	0.069	245	222222222
16	298.6	10.254	10.219	26.692	35.498	43.917	34.715	34.713	0.47	34.46	2.51	35.69	0.01	0.070		296	222222225
15	397.7	9.527	9.482	26.786	35.624	44.073	34.676	34.685	0.18	40.30	2.76	36.59	0.01	0.029		395	222222225
14	496.2	8.326	8.274	26.930	35.822	44.321	34.615	34.620	0.12	51.18	3.00	38.20	0.00	0.007	0.001	492	222222222
13	596.1	7.272	7.214	27.064	36.004	44.549	34.587	34.578	0.12	61.05	3.16	40.39	0.01	0.009	0.008	591	222222222
12	696.8	6.249	6.186	27.184	36.173	44.764	34.564	34.561	0.12	71.23	3.25	43.29	0.01	0.002		691	222222225
11	796.8	5.624	5.555	27.261	36.281	44.900	34.561	34.557	0.35	80.50	3.29	45.09	0.01	0.001	0.007	790	222222222
10	897.6	5.160	5.084	27.315	36.358	44.999	34.558	34.555	0.56	86.75	3.26	45.10	0.00			890	222222255
9	997.9	4.730	4.649	27.367	36.432	45.094	34.561	34.561	0.65	96.32	3.31	45.40	0.00	0.012		989	222222225
8	1248.1	3.784	3.689	27.492	36.605	45.313	34.590	34.588	1.19	113.95	3.17	43.80	0.00			1237	222222255
7	1496.4	3.245	3.135	27.557	36.699	45.434	34.604	34.601	1.48	126.94	3.13	43.20	0.00			1482	222222255
6	1749.3	2.740	2.614	27.614	36.784	45.544	34.617	34.619	1.91	136.01	2.97	41.90	0.00			1732	222222255
5	1999.4	2.345	2.203	27.665	36.857	45.638	34.638	34.639	2.09	147.30	2.93	41.30	0.00			1978	222222255
4	2499.8	1.908	1.730	27.725	36.942	45.747	34.665	34.667	2.51	158.28	2.82	39.80	0.00			2470	222222255
3	3002.1	1.770	1.547	27.745	36.972	45.787	34.674	34.673	2.75	159.29	2.75	39.20	0.00	0.084	0.018	2964	222222222
2	3504.1	1.621	1.352	27.765	37.004	45.829	34.682	34.683	3.10	158.68	2.70	38.40	0.00			3455	222222255
1	3917.2	1.561	1.250	27.774	37.018	45.849	34.684	34.683	3.26	157.27	2.64	38.00	0.00	0.001	0.005	3859	222222222

CRUISE: MW 893 STA: 181 DATE (D/M/Y): 30- 4-89 TIME: 2044 LAT: 9 40.16 N LONG: 111 9.96 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24496E-04 1/S SOUND SPEED= 1497.1 M/S Depth= 3578 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.205	34.315	4.98	28.205	21.815	30.053	37.941	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.205	34.315	4.98	28.204	21.815	30.053	37.941	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.099	34.317	4.93	28.095	21.852	30.093	37.983	0.120	0.1	-3.06	0.089	25.60	1.832	20.0
30	28.082	34.316	4.93	28.075	21.858	30.099	37.990	0.179	0.3	-1.20	-0.084	7.89	1.017	30.0
40	28.063	34.315	4.84	28.053	21.864	30.106	37.997	0.239	0.5	-106.94	-6.694	708.48	9.637	40.0
50	24.985	34.278	3.80	24.975	22.805	31.124	39.086	0.295	0.7	-457.64	32.695	3872.48	22.531	50.0
100	13.639	34.780	0.42	13.625	26.096	34.765	43.056	0.445	1.8	-70.77	1.309	388.97	7.141	99.9
125	12.742	34.779	0.42	12.725	26.277	34.981	43.305	0.491	2.4	-39.23	-0.006	194.09	5.044	124.8
150	12.009	34.770	0.58	11.989	26.413	35.145	43.496	0.534	3.0	-20.09	-0.239	92.65	3.485	149.6
200	11.329	34.753	0.58	11.304	26.528	35.288	43.665	0.613	4.4	-8.69	-0.342	32.85	2.075	199.4
250	10.982	34.745	0.58	10.951	26.586	35.361	43.751	0.690	6.1	-8.56	-0.150	35.19	2.148	249.1
300	10.603	34.730	0.64	10.567	26.643	35.434	43.839	0.763	8.2	-6.68	-0.323	23.20	1.744	298.9
350	10.297	34.714	0.47	10.256	26.685	35.489	43.907	0.836	10.6	-8.70	-0.358	30.87	2.012	348.6
400	9.882	34.693	0.30	9.836	26.741	35.563	43.997	0.906	13.3	-9.23	-0.397	31.66	2.037	398.3
450	9.367	34.669	0.16	9.316	26.808	35.653	44.108	0.974	16.2	-12.37	-0.552	40.71	2.310	448.0
500	8.752	34.640	0.11	8.698	26.884	35.757	44.238	1.038	19.3	-8.87	-0.485	26.57	1.866	497.6
600	7.697	34.588	0.10	7.636	27.004	35.925	44.452	1.159	26.1	-11.94	-0.485	36.16	2.177	596.9
700	6.610	34.559	0.13	6.545	27.133	36.105	44.680	1.268	33.3	-7.83	-0.094	26.62	1.868	696.2
800	5.942	34.555	0.14	5.871	27.217	36.221	44.827	1.367	40.9	-7.93	-0.063	26.59	1.867	795.4
900	5.347	34.553	0.31	5.271	27.289	36.323	44.956	1.459	48.9	-6.16	0.033	21.33	1.672	894.5
1000	4.777	34.560	0.60	4.695	27.361	36.423	45.083	1.545	57.1	-4.34	0.092	16.03	1.450	993.5
1200	3.952	34.580	1.05	3.860	27.467	36.571	45.271	1.699	74.4	-3.73	0.098	13.72	1.341	1191.5
1400	3.440	34.594	1.38	3.336	27.530	36.661	45.386	1.836	92.6	-2.23	0.063	8.24	1.039	1389.3
1600	3.027	34.607	1.67	2.910	27.579	36.733	45.479	1.964	112.1	-1.76	0.055	6.57	0.928	1586.9
1800	2.646	34.622	1.86	2.518	27.626	36.801	45.566	2.083	132.7	-1.96	0.097	8.09	1.030	1784.3
2000	2.321	34.640	2.03	2.179	27.669	36.862	45.645	2.192	153.9	-1.38	0.068	5.74	0.867	1981.5
2200	2.109	34.652	2.23	1.953	27.696	36.902	45.696	2.295	175.9	-1.07	0.053	4.53	0.770	2178.5
2400	1.942	34.661	2.44	1.771	27.718	36.933	45.737	2.393	198.9	-0.58	0.032	2.57	0.580	2375.3
2600	1.866	34.667	2.56	1.679	27.729	36.950	45.758	2.488	223.2	-0.45	0.023	1.99	0.511	2572.0
2800	1.810	34.671	2.66	1.605	27.738	36.963	45.774	2.583	249.2	-0.35	0.017	1.57	0.454	2768.4
3000	1.745	34.674	2.80	1.523	27.747	36.976	45.792	2.677	277.0	-0.41	0.017	1.84	0.491	2964.7
3200	1.696	34.677	2.92	1.455	27.754	36.987	45.806	2.769	306.4	-0.29	0.012	1.29	0.412	3160.8
3400	1.656	34.679	3.01	1.396	27.760	36.996	45.819	2.862	337.6	-0.29	0.012	1.34	0.419	3356.8
3600	1.633	34.681	3.08	1.353	27.765	37.003	45.828	2.955	370.6	-0.09	0.006	1.34	0.000	3552.5
3625	1.635	34.681	3.09	1.352	27.765	37.003	45.828	2.966	374.8	-0.08	0.005	1.34	0.000	3577.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.1	28.206	28.204	21.827	30.065	37.952	34.331	34.335	4.99	0.50	0.23	0.00	0.00	1.635		7	222222225
23	46.1	23.971	23.962	23.195	31.538	39.525	34.393	34.406	3.42	5.54	0.90	8.11	0.69	1.395	0.775	45	222222222
22	97.5	13.316	13.302	26.161	34.842	43.145	34.778	34.777	0.24	24.48	2.36	32.98	0.02	0.330	0.200	96	222222222
21	121.4	12.632	12.616	26.292	35.000	43.328	34.771	34.780	0.29	25.99	2.36	33.09	0.01	0.262		120	222222225
20	147.2	12.007	11.988	26.416	35.149	43.499	34.774	34.772	0.49	27.40	2.33	32.90	0.00	0.209	0.121	146	222222222
19	172.3	11.685	11.663	26.472	35.217	43.580	34.766	34.761	0.48	28.51	2.36	33.30	0.00	0.169	0.111	171	222222222
18	198.1	11.386	11.361	26.519	35.276	43.651	34.754	34.754	0.51	29.22	2.36	33.40	0.00	0.151		196	222222225
17	246.0	11.020	10.990	26.578	35.351	43.740	34.744	34.742	0.56	30.43	2.39	34.00	0.00	0.131		244	222222225
16	297.9	10.630	10.594	26.638	35.428	43.832	34.730	34.729	0.61	31.94	2.42	34.20	0.00	0.106		296	222222225
15	396.8	9.692	9.647	26.769	35.599	44.041	34.689	34.684	0.16	39.09	2.70	35.40	0.00	0.027		394	222222225
14	496.8	8.835	8.781	26.877	35.745	44.223	34.647	34.648	0.10	46.35	2.89	36.40	0.00	0.012		493	222222225
13	597.4	7.736	7.676	27.002	35.921	44.446	34.593	34.591	0.16	56.12	3.08	38.90	0.00	0.019		593	222222225
12	697.6	6.567	6.502	27.139	36.113	44.690	34.559	34.558	0.10	68.81	3.22	42.60	0.00			692	222222255
11	796.7	5.782	5.712	27.235	36.247	44.860	34.552	34.551	0.15	80.00	3.30	44.10	0.00	0.001	0.008	790	222222222
10	897.3	5.335	5.258	27.290	36.324	44.958	34.552	34.552	0.31	86.04	3.29	45.00	0.00			890	222222255
9	997.0	4.796	4.714	27.359	36.421	45.079	34.560	34.558	0.58	94.30	3.29	45.00	0.00	0.005		989	222222225
8	1197.6	3.951	3.859	27.467	36.572	45.272	34.581	34.578	1.04	110.62	3.19	44.00	0.00			1187	222222255
7	1498.1	3.231	3.121	27.557	36.700	45.435	34.603	34.599	1.49	126.54	3.09	42.80	0.00			1484	222222255
6	1798.9	2.625	2.497	27.629	36.805	45.572	34.624		1.87	140.55	2.98	41.70	0.00			1781	252222255
5	2101.3	2.172	2.024	27.689	36.890	45.680	34.649	34.650	2.14	152.64	2.89	40.80	0.00			2079	222222255
4	2501.5	1.900	1.722	27.725	36.943	45.749	34.666	34.666	2.49	158.28	2.80	39.80	0.00	-0.001	-0.005	2472	222222222
3	2902.1	1.784	1.571	27.743	36.970	45.783	34.674	34.673	2.69	159.79	2.74	39.10	0.00			2865	222222255
2	3203.5	1.700	1.459	27.753	36.986	45.805	34.676	34.677	2.88	159.29	2.70	38.60	0.00			3161	222222255
1	3627.9	1.635	1.352	27.764	37.002	45.827	34.680	34.681	3.06	158.58	2.66	38.30	0.00	-0.002	-0.002	3576	222222222

CRUISE: MW 893 STA: 182 DATE (D/M/Y): 1- 5-89 TIME: 0359 LAT: 9 29.99 N LONG: 110 20.05 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1498.1 M/S Depth= 3705 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.190	34.293	4.81	28.190	21.803	30.041	37.929	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.190	34.293	4.81	28.190	21.803	30.042	37.930	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.202	34.293	4.72	28.197	21.801	30.039	37.927	0.120	0.1	-2.80	0.029	22.15	1.719	20.0
30	28.155	34.294	4.74	28.148	21.818	30.057	37.946	0.180	0.3	-6.54	-0.228	46.35	2.487	30.0
40	27.984	34.291	4.82	27.974	21.872	30.116	38.008	0.240	0.5	-52.93	0.260	410.02	7.396	40.0
50	26.838	34.288	4.62	26.826	22.239	30.510	38.429	0.298	0.8	-323.25	3.870	2449.44	18.077	50.0
100	13.265	34.813	0.60	13.251	26.198	34.881	43.185	0.440	1.8	-25.15	1.002	140.30	4.326	99.9
125	12.773	34.823	0.62	12.756	26.305	35.007	43.329	0.485	2.3	-22.01	-0.450	98.61	3.627	124.8
150	12.365	34.804	0.68	12.346	26.371	35.089	43.426	0.528	2.9	-16.75	-0.961	60.24	2.835	149.6
200	11.683	34.782	0.80	11.657	26.485	35.231	43.594	0.609	4.3	-11.26	-0.464	42.20	2.373	199.4
250	11.234	34.759	0.86	11.202	26.551	35.316	43.696	0.687	6.1	-9.33	-0.316	35.37	2.172	249.1
300	10.853	34.741	0.76	10.816	26.607	35.388	43.783	0.763	8.2	-5.57	-0.286	19.02	1.593	298.9
350	10.445	34.721	0.49	10.403	26.665	35.463	43.874	0.837	10.7	-9.96	-0.378	35.69	2.182	348.6
400	9.897	34.698	0.35	9.851	26.742	35.563	43.997	0.907	13.4	-12.15	-0.580	40.00	2.310	398.3
450	9.336	34.669	0.15	9.286	26.813	35.659	44.116	0.975	16.3	-9.84	-0.675	27.57	1.918	448.0
500	8.884	34.639	0.08	8.829	26.863	35.730	44.206	1.040	19.5	-7.85	-0.444	23.05	1.754	497.6
600	8.098	34.617	0.07	8.035	26.968	35.870	44.380	1.164	26.4	-10.17	-0.281	33.61	2.117	596.9
700	6.957	34.572	0.08	6.890	27.097	36.052	44.612	1.277	33.9	-11.44	-0.367	34.58	2.148	696.2
800	5.967	34.553	0.20	5.896	27.213	36.216	44.820	1.379	41.7	-7.66	-0.083	24.82	1.820	795.4
900	5.428	34.554	0.41	5.350	27.280	36.310	44.939	1.472	49.8	-5.13	0.026	17.62	1.533	894.5
1000	5.012	34.556	0.44	4.929	27.332	36.382	45.031	1.560	58.2	-4.78	0.050	16.46	1.482	993.6
1200	4.110	34.573	0.92	4.016	27.445	36.542	45.234	1.719	76.1	-3.56	0.093	13.05	1.319	1191.6
1400	3.536	34.591	1.28	3.431	27.518	36.645	45.365	1.862	95.0	-2.54	0.086	9.55	1.129	1389.3
1600	3.082	34.605	1.55	2.964	27.573	36.725	45.468	1.992	114.9	-2.35	0.071	8.68	1.076	1586.9
1800	2.679	34.620	1.87	2.550	27.622	36.795	45.559	2.112	135.6	-1.75	0.068	6.75	0.949	1784.3
2000	2.377	34.637	2.02	2.234	27.662	36.852	45.632	2.223	157.2	-1.57	0.090	6.66	0.943	1981.5
2200	2.134	34.651	2.23	1.978	27.694	36.898	45.690	2.326	179.4	-0.95	0.053	4.07	0.737	2178.5
2400	1.936	34.662	2.44	1.766	27.719	36.935	45.738	2.425	202.5	-0.92	0.048	3.94	0.725	2375.4
2600	1.868	34.667	2.56	1.681	27.729	36.950	45.757	2.520	226.8	-0.36	0.019	1.58	0.460	2572.8
2800	1.825	34.670	2.65	1.620	27.737	36.960	45.771	2.615	252.8	-0.29	0.013	1.27	0.411	2768.5
3000	1.780	34.673	2.75	1.557	27.743	36.970	45.785	2.709	280.8	-0.34	0.014	1.46	0.442	2964.8
3200	1.714	34.676	2.88	1.473	27.752	36.984	45.803	2.803	310.5	-0.48	0.020	2.13	0.534	3160.9
3400	1.649	34.680	3.02	1.390	27.761	36.997	45.820	2.896	341.7	-0.36	0.013	1.60	0.463	3356.8
3600	1.606	34.682	3.14	1.327	27.767	37.007	45.833	2.988	374.5	-0.13	0.005	0.59	0.280	3552.6
3745	1.619	34.682	3.14	1.324	27.768	37.008	45.834	3.055	399.6	-0.02	0.004	0.59	0.000	3694.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.3	28.211	28.209	21.805	30.043	37.930	34.303	34.303	4.88	0.40	0.29	0.11	-0.01	1.614	0.894	5	222222222
23	45.5	24.234	24.225	23.116	31.453	39.433	34.392	34.321	4.10	12.39	0.63	3.79	0.31	1.558	0.878	45	222222222
22	71.3	13.774	13.764	26.093	34.756	43.042	34.813	34.780	0.38	22.06	2.26	31.92	0.08	0.434	0.236	70	222222222
21	97.0	13.041	13.028	26.239	34.930	43.243	34.807	34.815	0.47	23.58	2.24	32.30	0.00	0.347		96	222222225
20	124.8	12.655	12.638	26.321	35.028	43.354	34.814	34.813	0.60	24.68	2.24	32.40	0.00	0.284		124	222222225
19	145.8	12.335	12.316	26.379	35.098	43.436	34.807	34.799	0.63	25.39	2.24	32.50	0.00	0.273	0.161	144	222222222
18	170.3	11.954	11.932	26.441	35.175	43.528	34.791	34.783	0.74	26.60	2.26	32.50	0.00	0.235	0.149	169	222222222
17	195.8	11.624	11.599	26.491	35.239	43.604	34.776	34.778	0.78	27.30	2.26	32.70	0.00	0.213		194	222222225
16	246.1	11.233	11.202	26.556	35.320	43.701	34.765	34.756	0.83	28.81	2.32	33.00	0.00	0.176	0.109	244	222222222
15	297.0	10.840	10.804	26.603	35.384	43.780	34.733	34.736	0.72	30.53	2.38	33.70	0.00	0.134		295	222222225
14	398.4	9.680	9.634	26.763	35.593	44.036	34.678	34.697	0.31	36.98	2.64	35.90	0.00	0.044	0.032	395	222222222
13	496.0	8.707	8.654	26.889	35.763	44.246	34.637	34.632	0.15	47.35	2.93	36.30	0.00	0.015	0.015	492	222222222
12	621.9	7.502	7.440	27.036	35.966	44.501	34.593	34.594	0.09	58.84	3.14	39.60	0.00	0.001	0.009	617	222222222
11	798.5	5.923	5.852	27.218	36.224	44.830	34.553	34.550	0.22	76.57	3.25	44.20	0.00	-0.001		792	222222225
10	895.9	5.402	5.325	27.283	36.314	44.944	34.553	34.550	0.56	83.42	3.25	44.90	0.00			888	222222255
9	995.5	4.963	4.880	27.341	36.393	45.045	34.560	34.554	0.46	92.09	3.31	45.30	0.00			987	222222255
8	1298.0	3.775	3.676	27.487	36.601	45.310	34.583	34.581	1.11	114.96	3.18	44.00	0.00			1286	222222255
7	1597.1	3.035	2.918	27.579	36.733	45.479	34.608	34.606	1.58	131.78	3.07	42.60	0.00			1582	222222255
6	1697.7	2.839	2.716	27.604	36.768	45.524	34.616	34.614	1.75	136.21	3.01	42.10	0.00			1681	222222255
5	2199.4	2.109	1.954	27.698	36.903	45.697	34.654	34.650	2.23	153.34	2.87	40.60	0.00			2175	222222255
4	2597.8	1.864	1.677	27.732	36.952	45.760	34.669	34.669	2.56	159.49	2.79	39.60	0.00	-0.001	-0.002	2567	222222222
3	3003.2	1.774	1.551	27.745	36.973	45.787	34.675	34.673	2.76	160.29	2.74	39.00	0.00	0.000	0.005	2965	222222252
2	3507.9	1.620	1.350	27.765	37.003	45.828	34.681	34.682	3.09	158.88	2.68	38.30	0.00			3459	222222255
1	3746.6	1.618	1.323	27.766	37.006	45.833	34.680	34.680	3.12	158.38	2.65	38.10	0.00	-0.002	-0.002	3692	222222222

CRUISE: MW 893 STA: 183 DATE (D/M/Y): 1- 5-89 TIME: 1114 LAT: 9 29.67 N LONG: 109 30.05 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24057E-04 1/S SOUND SPEED= 1500.2 M/S Depth= 4065 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.313	34.161	4.89	28.313	21.664	29.901	37.788	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.313	34.161	4.89	28.313	21.664	29.901	37.788	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	28.327	34.210	4.82	28.322	21.698	29.934	37.820	0.123	0.1	-12.55	7.086	222.17	5.446	20.0
30	28.101	34.212	4.92	28.094	21.774	30.015	37.906	0.184	0.3	-90.45	-12.968	462.85	7.860	30.0
40	26.916	34.160	4.98	26.907	22.117	30.387	38.305	0.243	0.5	-99.84	19.581	1093.26	12.080	40.0
50	26.081	34.284	4.11	26.069	22.474	30.764	38.700	0.298	0.7	-91.47	0.859	684.55	9.559	50.0
100	15.218	34.766	0.15	15.203	25.748	34.359	42.597	0.496	2.2	-150.98	6.956	959.52	11.317	99.9
125	13.276	34.810	0.26	13.259	26.194	34.877	43.181	0.547	2.8	-63.66	-0.938	309.64	6.429	124.8
150	12.516	34.789	0.46	12.496	26.330	35.042	43.374	0.591	3.4	-22.75	-0.119	109.57	3.824	149.7
200	11.732	34.784	0.62	11.706	26.477	35.221	43.582	0.674	4.9	-17.39	-0.804	63.85	2.919	199.5
250	11.050	34.752	0.64	11.019	26.580	35.351	43.739	0.752	6.6	-8.59	-0.409	30.24	2.009	249.2
300	10.558	34.725	0.44	10.522	26.647	35.440	43.847	0.826	8.7	-12.53	-0.681	41.33	2.349	298.9
350	10.068	34.706	0.47	10.027	26.718	35.532	43.959	0.897	11.1	-9.30	-0.375	32.11	2.070	348.6
400	9.648	34.687	0.26	9.602	26.775	35.607	44.051	0.966	13.7	-11.21	-0.499	36.90	2.219	398.3
450	9.025	34.653	0.10	8.975	26.851	35.710	44.180	1.032	16.6	-14.06	-0.936	38.89	2.278	448.0
500	8.398	34.620	0.07	8.345	26.924	35.812	44.308	1.094	19.6	-11.66	-0.440	36.79	2.216	497.7
600	7.331	34.578	0.06	7.272	27.049	35.986	44.529	1.210	26.1	-10.13	-0.262	32.05	2.068	597.0
700	6.324	34.562	0.08	6.260	27.173	36.159	44.746	1.314	33.0	-5.88	-0.064	19.43	1.610	696.2
800	5.924	34.556	0.12	5.853	27.221	36.226	44.832	1.411	40.4	-3.06	-0.033	9.72	1.139	795.4
900	5.356	34.553	0.27	5.279	27.289	36.322	44.954	1.504	48.4	-7.65	0.023	25.94	1.861	894.5
1000	4.774	34.559	0.54	4.693	27.360	36.423	45.083	1.589	56.7	-4.94	0.079	17.58	1.532	993.6
1200	3.969	34.578	0.94	3.876	27.463	36.567	45.266	1.743	73.9	-3.72	0.104	13.53	1.344	1191.6
1400	3.434	34.594	1.29	3.330	27.530	36.663	45.388	1.881	92.1	-1.98	0.062	7.25	0.984	1389.4
1600	3.017	34.608	1.57	2.901	27.581	36.736	45.482	2.008	111.6	-2.08	0.075	7.88	1.025	1587.0
1800	2.616	34.625	1.83	2.487	27.631	36.808	45.575	2.126	132.1	-2.05	0.090	8.01	1.034	1784.3
2000	2.248	34.645	2.10	2.107	27.679	36.875	45.662	2.234	152.9	-1.37	0.080	5.80	0.880	1981.5
2200	2.038	34.656	2.29	1.884	27.705	36.915	45.712	2.334	174.4	-0.92	0.047	3.84	0.716	2178.6
2400	1.936	34.663	2.45	1.766	27.720	36.935	45.739	2.431	197.1	-0.43	0.022	1.83	0.494	2375.4
2600	1.874	34.667	2.54	1.687	27.729	36.949	45.756	2.526	221.4	-0.40	0.020	1.70	0.477	2572.0
2800	1.809	34.671	2.65	1.605	27.738	36.963	45.775	2.621	247.5	-0.42	0.020	1.83	0.495	2768.5
3000	1.761	34.674	2.74	1.539	27.746	36.974	45.789	2.715	275.3	-0.37	0.014	1.60	0.461	2964.8
3200	1.701	34.677	2.88	1.460	27.754	36.986	45.806	2.808	304.8	-0.36	0.014	1.59	0.461	3160.9
3400	1.682	34.679	2.95	1.422	27.758	36.992	45.814	2.901	336.1	-0.26	0.011	1.19	0.398	3356.8
3600	1.637	34.681	3.08	1.357	27.765	37.003	45.827	2.994	369.4	-0.24	0.009	1.10	0.383	3552.6
3800	1.630	34.682	3.13	1.329	27.767	37.007	45.833	3.088	404.5	-0.08	0.001	0.34	0.214	3748.2
4000	1.646	34.682	3.15	1.323	27.768	37.008	45.834	3.182	442.1	0.00	0.000	0.02	0.047	3943.6
4151	1.663	34.683	3.14	1.323	27.768	37.008	45.835	3.255	472.3	-0.01	0.003	0.02	0.000	4091.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	28.303	28.301	21.672	29.909	37.796	34.167	34.167	4.94	0.60	0.30	0.70	0.00	1.603	0.867	6	222222222
23	46.5	25.409	25.398	22.653	30.961	38.913	34.247	34.288	4.01	2.52	0.86	6.23	2.47	1.674	0.896	46	222222222
22	95.3	13.451	13.437	26.147	34.823	43.121	34.796	34.810	0.14	23.98	2.41	32.70	0.00	0.326	0.201	94	222222222
21	122.4	12.684	12.667	26.310	35.015	43.340	34.806	34.788	0.39	25.59	2.34	33.20	0.00	0.270	0.146	121	222222222
20	146.8	12.214	12.195	26.393	35.117	43.460	34.796	34.798	0.47	26.50	2.34	33.30	0.00	0.220	0.138	145	222222222
19	170.5	11.960	11.938	26.445	35.179	43.531	34.798	34.792	0.58	26.90	2.33	33.20	0.00	0.206	0.134	169	222222222
18	197.4	11.604	11.579	26.497	35.245	43.611	34.778	34.773	0.61	28.01	2.35	33.40	0.00	0.179	0.116	196	222222222
17	246.8	11.032	11.002	26.583	35.356	43.744	34.753	34.751	0.62	30.12	2.40	34.30	0.00	0.138		245	222222225
16	296.2	10.576	10.540	26.643	35.435	43.841	34.724	34.720	0.40	32.64	2.50	35.30	0.00	0.076		294	222222225
15	397.3	9.689	9.644	26.771	35.602	44.044	34.691	34.690	0.30	38.08	2.69	36.50	0.00	0.030	0.025	394	222222222
14	497.7	8.596	8.543	26.902	35.781	44.269	34.632	34.624	0.07	49.27	2.97	36.70	0.00	0.006		494	222222225
13	596.2	7.398	7.339	27.041	35.975	44.515	34.580	34.578	0.07	60.35	3.17	39.60	0.00	0.005	0.010	591	222222222
12	695.9	6.325	6.261	27.173	36.159	44.746	34.562	34.559	0.10	73.04	3.28	43.10	0.00	0.000		690	222222255
11	797.9	5.945	5.873	27.218	36.222	44.827	34.555	34.554	0.14	78.28	3.30	44.40	0.00	-0.001	0.001	791	222222222
10	996.3	4.854	4.772	27.350	36.408	45.065	34.557	34.557	0.51	93.90	3.29	45.80	0.00			988	222222255
9	1246.5	3.893	3.797	27.472	36.580	45.282	34.579	34.577	1.03	112.74	3.22	45.00	0.00			1235	222222255
8	1498.7	3.250	3.139	27.554	36.696	45.430	34.601	34.601	1.44	126.34	3.11	43.60	0.00			1484	222222255
7	1750.2	2.707	2.582	27.618	36.789	45.552	34.618	34.620	1.80	138.03	2.98	42.50	0.00			1733	222222255
6	1998.8	2.282	2.141	27.675	36.870	45.655	34.644	34.641	2.09	149.11	2.94	41.60	0.00			1978	222222255
5	2500.1	1.894	1.716	27.726	36.944	45.750	34.666	34.664	2.49	157.88	2.79	40.00	0.00			2471	222222255
4	3002.7	1.744	1.522	27.748	36.977	45.793	34.675	34.676	2.80	159.39	2.73	39.40	0.00	-0.003	0.004	2964	222222222
3	3502.1	1.650	1.380	27.763	37.000	45.824	34.682	34.680	3.05	158.68	2.66	38.80	0.00			3453	222222255
2	4006.7	1.647	1.323	27.768	37.008	45.835	34.683		3.14	158.48	2.65	38.50	0.00	-0.002		3946	252222225
1	4153.4	1.663	1.323	27.768	37.008	45.834	34.682		3.13	158.48	2.65	38.50	0.00	-0.001		4090	252222225

CRUISE: MW 893 STA: 184 DATE (D/M/Y): 1- 5-89 TIME: 1825 LAT: 9 30.10 N LONG: 108 40.19 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24075E-04 1/S SOUND SPEED= 1496.5 M/S Depth= 3471 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.832	34.264	4.75	28.832	21.570	29.794	37.668	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.832	34.264	4.75	28.832	21.570	29.794	37.668	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.650	34.265	4.96	28.645	21.633	29.861	37.739	0.124	0.1	-2.07	0.358	22.48	1.731	20.0
30	28.624	34.269	4.95	28.617	21.645	29.874	37.753	0.185	0.3	-4.23	0.666	44.69	2.442	30.0
40	28.174	34.211	4.98	28.164	21.750	29.990	37.879	0.247	0.5	-215.43	-36.164	1004.11	11.573	40.0
50	26.245	34.055	5.00	26.234	22.250	30.538	38.473	0.305	0.8	-99.24	23.824	1151.55	12.393	50.0
100	15.429	34.766	0.18	15.414	25.701	34.305	42.535	0.500	2.2	-139.17	6.896	881.82	10.845	99.9
125	13.238	34.803	0.25	13.221	26.196	34.881	43.186	0.550	2.8	-45.03	-0.292	222.70	5.450	124.8
150	12.530	34.791	0.29	12.510	26.328	35.040	43.371	0.595	3.4	-17.88	0.110	87.41	3.414	149.7
200	11.737	34.769	0.24	11.711	26.465	35.208	43.570	0.678	4.9	-16.14	-0.577	62.16	2.879	199.5
250	11.066	34.741	0.27	11.035	26.568	35.339	43.726	0.756	6.6	-10.18	-0.420	36.88	2.218	249.2
300	10.578	34.718	0.18	10.542	26.638	35.430	43.837	0.830	8.7	-11.22	-0.493	39.10	2.284	298.9
350	10.108	34.694	0.10	10.067	26.702	35.514	43.940	0.902	11.1	-9.14	-0.528	28.69	1.956	348.7
400	9.422	34.658	0.08	9.377	26.790	35.632	44.086	0.971	13.8	-12.36	-0.634	38.74	2.273	398.4
450	8.801	34.620	0.07	8.752	26.860	35.730	44.210	1.037	16.6	-16.43	-0.908	48.01	2.530	448.0
500	8.005	34.592	0.06	7.953	26.960	35.867	44.380	1.098	19.6	-17.92	-0.723	54.21	2.689	497.7
600	6.736	34.561	0.06	6.680	27.117	36.082	44.651	1.208	25.7	-9.44	0.014	33.55	2.116	597.0
700	6.007	34.560	0.11	5.944	27.212	36.212	44.814	1.306	32.2	-5.52	-0.111	16.66	1.491	696.2
800	5.580	34.556	0.21	5.511	27.263	36.285	44.906	1.399	39.3	-3.11	-0.012	10.02	1.156	795.4
900	5.158	34.557	0.34	5.083	27.314	36.357	44.999	1.488	47.0	-5.14	0.039	17.36	1.521	894.5
1000	4.639	34.564	0.64	4.558	27.380	36.449	45.115	1.571	55.1	-4.11	0.071	14.34	1.383	993.6
1200	3.928	34.580	1.07	3.836	27.469	36.575	45.276	1.723	72.1	-3.13	0.086	11.38	1.232	1191.6
1400	3.456	34.593	1.33	3.351	27.528	36.659	45.383	1.861	90.4	-2.25	0.069	8.26	1.050	1389.3
1600	3.006	34.608	1.62	2.890	27.582	36.737	45.484	1.990	110.0	-2.22	0.079	8.36	1.056	1586.9
1800	2.627	34.624	1.86	2.499	27.630	36.805	45.572	2.107	130.4	-1.76	0.086	7.07	0.971	1784.3
2000	2.260	34.645	2.07	2.119	27.678	36.874	45.659	2.216	151.4	-1.60	0.084	6.62	0.940	1981.5
2200	2.066	34.655	2.27	1.912	27.703	36.910	45.706	2.317	173.0	-1.13	0.059	4.72	0.794	2178.5
2400	1.926	34.663	2.43	1.756	27.721	36.937	45.741	2.413	195.7	-0.52	0.026	2.19	0.541	2375.4
2600	1.855	34.668	2.54	1.668	27.731	36.952	45.761	2.508	219.9	-0.38	0.020	1.65	0.469	2572.0
2800	1.808	34.671	2.63	1.603	27.738	36.963	45.775	2.603	245.9	-0.36	0.014	1.51	0.449	2768.5
3000	1.753	34.674	2.77	1.530	27.746	36.975	45.790	2.696	273.6	-0.31	0.013	1.35	0.424	2964.8
3200	1.733	34.676	2.83	1.492	27.750	36.981	45.799	2.790	303.3	-0.32	0.012	1.40	0.431	3160.9
3400	1.702	34.678	2.92	1.441	27.756	36.989	45.809	2.884	334.9	-0.19	0.009	0.87	0.341	3356.8
3539	1.691	34.679	2.96	1.416	27.758	36.993	45.815	2.950	358.1	-0.29	0.015	0.87	0.000	3492.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	CTDSAL ** PSS78	SALNTY ** PSS78	OXYGEN ** ML/L	SILCAT ** UMOL/L	PHSPHT ** UMOL/L	NITRAT ** UMOL/L	NITRIT ** UMOL/L	CFC-11 ** PM/KG	CFC-12 ** PM/KG	DEPTH METERS	QUALT1
24	5.9	28.655	28.653	21.632	29.861	37.739	34.268	34.265	4.84	0.51	0.27	0.11	-0.01	1.623	0.858	5	222222222
23	48.4	25.334	25.324	22.618	30.928	38.883	34.170	34.173	4.45	2.04	0.50	2.21	0.49	1.680	0.916	48	222222222
22	73.6	18.597	18.585	24.779	33.279	41.412	34.545	34.512	1.25	13.74	2.03	26.41	0.09	1.113	0.616	73	222222222
21	96.7	14.386	14.372	25.982	34.623	42.888	34.836	34.799	0.05	22.69	2.43	31.68	0.02	0.407	0.249	96	222222222
20	121.8	13.207	13.190	26.200	34.886	43.192	34.800	34.798	0.16	24.62	2.39	33.10	0.00	0.294	0.175	121	222222222
19	147.1	12.576	12.556	26.313	35.023	43.352	34.782	34.786	0.22	26.15	2.41	33.40	0.00	0.226	0.141	146	222222222
18	172.6	12.081	12.058	26.411	35.141	43.489	34.785	34.773	0.21	27.78	2.43	33.90	0.00	0.176	0.107	171	222222222
17	197.6	11.722	11.697	26.468	35.212	43.574	34.769	34.763	0.18	29.11	2.49	33.60	0.00	0.129		196	222222225
16	247.5	11.062	11.031	26.567	35.338	43.726	34.739	34.740	0.24	31.04	2.50	34.60	0.00	0.084		245	222222225
15	298.2	10.491	10.455	26.650	35.446	43.856	34.714	34.710	0.09	33.88	2.61	34.70	0.00	0.036		296	222222225
14	399.1	9.414	9.369	26.790	35.633	44.087	34.658	34.657	0.05	41.52	2.81	35.50	0.00	0.014	0.017	396	222222222
13	497.0	7.916	7.866	26.968	35.879	44.396	34.585	34.583	0.04	56.58	3.09	36.20	0.00	0.006		493	222222225
12	621.4	6.443	6.385	27.156	36.135	44.717	34.561	34.554	0.06	72.45	3.27	41.70	0.00	0.001		616	222222225
11	798.0	5.547	5.478	27.266	36.290	44.913	34.555	34.556	0.21	83.24	3.31	44.81	-0.01			791	222222255
10	997.7	4.652	4.571	27.379	36.447	45.113	34.564	34.564	0.86	96.97	3.28	44.91	-0.01			989	222222255
9	1247.6	3.769	3.674	27.489	36.604	45.312	34.585	34.585	1.14	114.89	3.18	43.60	0.00			1236	222222255
8	1498.4	3.243	3.132	27.554	36.696	45.431	34.600	34.599	1.41	126.69	3.10	42.90	0.00			1484	222222255
7	1748.4	2.756	2.630	27.614	36.783	45.543	34.619	34.619	1.77	137.78	3.00	41.90	0.00			1731	222222255
6	2000.5	2.251	2.111	27.680	36.876	45.662	34.646	34.644	2.07	150.30	2.90	41.00	0.00	0.002	-0.005	1979	222222222
5	2350.8	1.950	1.784	27.718	36.933	45.735	34.663	34.664	2.39	157.01	2.83	39.80	0.00			2324	222222255
4	2702.3	1.836	1.640	27.735	36.958	45.768	34.670	34.671	2.56	159.66	2.78	39.30	0.00	0.001		2669	222222225
3	3055.6	1.752	1.524	27.748	36.976	45.792	34.675	34.674	2.76	159.56	2.74	39.00	0.00			3016	222222255
2	3305.2	1.710	1.459	27.754	36.986	45.806	34.677	34.677	2.87	159.04	2.70	38.70	0.00			3261	222222255
1	3543.5	1.691	1.416	27.757	36.992	45.814	34.677	34.676	2.94	158.94	2.68	38.40	0.00	-0.001	-0.001	3494	222222222

CRUISE: MW 893 STA: 185 DATE (D/M/Y): 2- 5-89 TIME: 0152 LAT: 9 29.36 N LONG: 107 50.01 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24044E-04 1/S SOUND SPEED= 1497.0 M/S Depth= 3567 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.811	34.017	4.93	28.811	21.391	29.618	37.496	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.811	34.017	4.93	28.811	21.391	29.618	37.496	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.573	33.998	4.97	28.568	21.457	29.691	37.573	0.128	0.1	-24.57	-2.537	145.73	4.412	20.0
30	28.186	34.043	5.11	28.179	21.619	29.861	37.752	0.191	0.3	-57.99	22.608	845.51	10.626	30.0
40	27.215	34.034	5.14	27.206	21.927	30.192	38.105	0.251	0.5	-90.86	9.254	848.32	10.644	40.0
50	26.608	34.213	4.73	26.596	22.255	30.533	38.458	0.308	0.8	-92.80	4.869	771.99	10.154	50.0
100	16.004	34.728	0.39	15.988	25.542	34.126	42.338	0.506	2.2	-128.84	6.537	818.74	10.457	99.9
125	13.472	34.790	0.37	13.455	26.139	34.814	43.111	0.558	2.8	-52.86	0.172	265.10	5.950	124.8
150	12.518	34.784	0.35	12.498	26.326	35.038	43.370	0.604	3.4	-28.22	-0.466	124.10	4.071	149.7
200	11.457	34.754	0.26	11.432	26.506	35.261	43.632	0.685	4.9	-16.88	-0.763	61.25	2.860	199.5
250	10.809	34.731	0.27	10.778	26.606	35.388	43.785	0.762	6.6	-15.40	-0.636	54.79	2.705	249.2
300	10.274	34.709	0.23	10.239	26.684	35.489	43.907	0.834	8.7	-7.92	-0.480	24.59	1.812	298.9
350	9.808	34.678	0.08	9.768	26.740	35.565	44.002	0.904	11.0	-11.46	-0.621	35.90	2.190	348.7
400	9.310	34.649	0.07	9.265	26.801	35.648	44.106	0.971	13.6	-11.18	-0.791	30.44	2.016	398.4
450	8.658	34.610	0.07	8.610	26.875	35.751	44.237	1.036	16.3	-11.75	-0.520	36.26	2.201	448.0
500	8.085	34.596	0.06	8.034	26.952	35.854	44.364	1.097	19.3	-14.49	-0.601	43.76	2.417	497.7
600	7.093	34.571	0.06	7.035	27.076	36.025	44.578	1.210	25.6	-8.89	-0.221	27.84	1.928	597.0
700	6.256	34.557	0.12	6.193	27.178	36.167	44.758	1.312	32.4	-7.90	-0.073	25.79	1.856	696.2
800	5.584	34.556	0.29	5.515	27.263	36.284	44.906	1.407	39.6	-5.67	0.009	18.95	1.591	795.4
900	5.075	34.558	0.44	5.000	27.325	36.372	45.017	1.494	47.2	-4.03	0.031	13.57	1.346	894.5
1000	4.644	34.564	0.73	4.563	27.379	36.448	45.114	1.577	55.2	-3.99	0.061	13.79	1.357	993.6
1200	3.939	34.580	1.06	3.846	27.468	36.573	45.273	1.729	72.2	-2.95	0.084	10.74	1.198	1191.6
1400	3.478	34.593	1.33	3.373	27.525	36.655	45.378	1.867	90.6	-1.99	0.057	7.18	0.979	1389.3
1600	3.076	34.606	1.54	2.959	27.575	36.726	45.470	1.996	110.3	-2.06	0.073	7.74	1.017	1586.9
1800	2.670	34.624	1.78	2.541	27.626	36.800	45.564	2.116	131.0	-2.07	0.094	8.21	1.047	1784.3
2000	2.319	34.642	2.03	2.177	27.670	36.863	45.646	2.225	152.2	-1.57	0.078	6.41	0.925	1981.5
2200	2.071	34.655	2.27	1.917	27.702	36.909	45.705	2.327	174.0	-1.08	0.055	4.49	0.774	2178.5
2400	1.924	34.664	2.43	1.754	27.722	36.938	45.742	2.423	196.6	-0.51	0.027	2.19	0.541	2375.4
2600	1.864	34.668	2.54	1.677	27.731	36.951	45.759	2.518	220.8	-0.29	0.015	1.25	0.408	2572.0
2800	1.810	34.671	2.64	1.605	27.738	36.963	45.775	2.613	246.8	-0.35	0.015	1.52	0.451	2768.5
3000	1.760	34.674	2.75	1.538	27.746	36.974	45.789	2.707	274.7	-0.34	0.012	1.45	0.440	2964.8
3200	1.718	34.676	2.85	1.476	27.752	36.984	45.802	2.801	304.3	-0.33	0.012	1.42	0.435	3160.9
3400	1.662	34.679	2.99	1.402	27.760	36.995	45.818	2.894	335.6	-0.17	0.006	0.77	0.321	3356.8
3600	1.669	34.680	3.01	1.388	27.761	36.997	45.821	2.987	368.9	-0.04	0.001	0.77	0.000	3552.6
3631	1.670	34.679	2.99	1.386	27.761	36.997	45.820	3.002	374.3	-0.05	0.001	0.77	0.000	3582.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.8	28.657	28.655	21.436	29.667	37.548	34.008	34.007	4.99	0.00	0.24	0.10	0.00	1.627	0.858	6	222222222
23	46.2	26.635	26.624	22.260	30.536	38.460	34.231	34.248	4.80	0.82	0.49	1.52	0.48	1.665	0.903	45	222222222
22	95.3	14.674	14.660	25.849	34.480	42.736	34.743	34.773	0.33	20.31	2.26	31.48	0.02	0.539	0.300	94	222222222
21	121.3	12.814	12.797	26.273	34.973	43.294	34.792	34.789	0.24	24.37	2.36	33.29	0.01	0.305		120	222222225
20	146.3	12.485	12.465	26.335	35.049	43.382	34.788	34.784	0.32	25.89	2.38	33.59	0.01	0.243		145	222222225
19	171.5	12.063	12.040	26.404	35.135	43.484	34.771		0.36	26.81	2.38	33.70	0.00	0.200	0.113	170	252222222
18	194.2	11.768	11.743	26.446	35.189	43.549	34.753	34.771	0.38	27.73	2.40	33.70	0.00	0.172	0.098	193	222222222
17	246.1	10.983	10.953	26.577	35.352	43.743	34.734	34.740	0.29	30.67	2.51	34.50	0.00	0.091		244	222222225
16	297.5	10.403	10.368	26.668	35.467	43.880	34.717	34.715	0.28	33.51	2.59	35.50	0.00	0.055	0.038	295	222222222
15	397.0	9.317	9.273	26.803	35.650	44.108	34.654	34.648	0.09	41.84	2.82	35.70	0.00	0.008		394	222222225
14	497.9	8.157	8.106	26.942	35.841	44.348	34.597	34.602	0.08	52.81	3.05	35.90	0.00	0.008		494	222222225
13	597.7	7.060	7.003	27.081	36.031	44.586	34.572	34.569	0.09	63.27	3.18	40.40	0.00			593	222222255
12	698.7	6.153	6.090	27.195	36.189	44.784	34.562	34.555	0.17	72.71	3.26	43.70	0.00	-0.001	-0.001	693	222222222
11	797.9	5.526	5.457	27.274	36.298	44.922	34.562	34.556	0.35	80.94	3.28	45.00	0.00			791	222222255
10	994.6	4.617	4.537	27.382	36.452	45.119	34.564	34.563	0.73	96.38	3.26	44.90	0.00	-0.001		986	222222225
9	1247.3	3.801	3.706	27.486	36.598	45.305	34.585	34.583	1.11	113.23	3.19	44.00	0.00			1236	222222255
8	1497.2	3.227	3.117	27.555	36.699	45.434	34.600	34.600	1.42	126.94	3.13	43.20	0.00			1483	222222255
7	1747.9	2.733	2.608	27.621	36.791	45.552	34.625	34.620	1.71	137.60	3.01	42.29	0.01			1730	222222255
6	1999.7	2.309	2.168	27.672	36.865	45.648	34.642	34.641	2.02	148.78	2.91	41.39	0.01			1978	222222255
5	2398.9	1.934	1.764	27.722	36.937	45.741	34.665	34.665	2.43	158.02	2.82	40.20	0.00			2371	222222255
4	2800.2	1.809	1.605	27.739	36.963	45.775	34.672	34.671	2.64	160.05	2.74	39.40	0.00	0.000		2766	222222255
3	3203.7	1.716	1.475	27.753	36.984	45.803	34.677	34.676	2.85	159.65	2.71	39.00	0.00	0.000		3161	222222255
2	3405.3	1.662	1.402	27.760	36.996	45.818	34.679	34.679	2.95		2.69	38.70	0.00	0.002		3359	222522225
1	3635.6	1.670	1.386	27.761	36.997	45.820	34.679	34.682	2.97	159.35	2.69	38.70	0.00	-0.002		3584	222222225

CRUISE: MW 893 STA: 186 DATE (D/M/Y): 2- 5-89 TIME: 0916 LAT: 9 29.94 N LONG: 107 0.06 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1498.5 M/S Depth= 3876 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.553	34.004	5.00	28.553	21.467	29.700	37.583	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.553	34.004	5.00	28.553	21.467	29.700	37.583	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.748	34.228	4.98	28.743	21.572	29.799	37.675	0.125	0.1	-8.06	0.138	65.31	2.952	20.0
30	28.601	34.200	4.97	28.594	21.601	29.831	37.711	0.187	0.3	-134.14	-31.902	468.93	7.910	30.0
40	27.428	34.125	5.20	27.419	21.927	30.186	38.093	0.248	0.5	-11.28	17.871	401.73	7.321	40.0
50	26.932	34.225	4.97	26.920	22.161	30.431	38.348	0.306	0.8	-153.89	11.485	1348.52	13.413	50.0
100	15.863	34.739	0.34	15.847	25.583	34.172	42.388	0.496	2.2	-116.13	7.370	767.87	10.122	99.9
125	13.841	34.857	0.19	13.823	26.114	34.775	43.058	0.549	2.8	-42.63	0.386	230.89	5.550	124.8
150	12.872	34.837	0.16	12.852	26.297	34.994	43.313	0.595	3.4	-34.43	-1.850	138.17	4.294	149.7
200	11.905	34.779	0.32	11.879	26.441	35.178	43.533	0.679	4.9	-14.64	-0.574	55.93	2.732	199.5
250	11.189	34.755	0.10	11.157	26.557	35.323	43.705	0.758	6.7	-12.39	-0.408	47.09	2.506	249.2
300	10.454	34.717	0.09	10.418	26.659	35.457	43.868	0.833	8.8	-10.64	-0.592	34.56	2.147	298.9
350	9.966	34.686	0.07	9.925	26.720	35.538	43.969	0.904	11.1	-9.51	-0.629	28.05	1.935	348.7
400	9.466	34.656	0.07	9.421	26.781	35.621	44.073	0.972	13.8	-13.93	-0.744	42.68	2.386	398.4
450	8.631	34.619	0.06	8.583	26.886	35.763	44.250	1.037	16.6	-14.78	-0.699	44.66	2.441	448.0
500	8.006	34.596	0.06	7.954	26.964	35.870	44.383	1.097	19.5	-9.81	-0.227	32.66	2.087	497.7
600	7.116	34.574	0.05	7.058	27.075	36.023	44.575	1.209	25.8	-8.74	-0.102	29.26	1.976	597.0
700	6.198	34.566	0.07	6.134	27.193	36.184	44.777	1.311	32.5	-7.35	-0.082	23.75	1.780	696.2
800	5.604	34.560	0.15	5.535	27.263	36.283	44.904	1.405	39.7	-6.20	-0.024	20.12	1.638	795.4
900	4.994	34.561	0.43	4.920	27.337	36.388	45.037	1.492	47.2	-4.92	0.040	16.70	1.493	894.5
1000	4.599	34.565	0.63	4.519	27.385	36.456	45.124	1.573	55.1	-3.60	0.047	12.24	1.278	993.6
1200	3.960	34.578	1.03	3.867	27.464	36.568	45.267	1.724	72.0	-2.76	0.079	10.02	1.156	1191.6
1400	3.433	34.595	1.34	3.329	27.531	36.663	45.389	1.862	90.3	-1.93	0.058	7.05	0.970	1389.3
1600	3.066	34.607	1.57	2.948	27.576	36.728	45.472	1.991	109.9	-2.49	0.085	9.30	1.114	1586.9
1800	2.626	34.626	1.79	2.497	27.631	36.807	45.574	2.108	130.3	-1.75	0.078	6.89	0.959	1784.3
2000	2.324	34.641	2.03	2.183	27.669	36.862	45.645	2.217	151.5	-1.82	0.089	7.38	0.992	1981.5
2200	2.034	34.657	2.32	1.879	27.706	36.916	45.713	2.318	172.9	-0.95	0.048	3.92	0.723	2178.5
2400	1.915	34.664	2.49	1.745	27.722	36.939	45.744	2.414	195.4	-0.46	0.024	1.96	0.512	2375.4
2600	1.864	34.668	2.55	1.677	27.730	36.951	45.759	2.508	219.6	-0.25	0.012	1.10	0.382	2572.0
2800	1.833	34.670	2.61	1.628	27.736	36.959	45.769	2.603	245.7	-0.31	0.014	1.36	0.426	2768.5
3000	1.762	34.673	2.74	1.540	27.745	36.973	45.788	2.698	273.7	-0.63	0.023	2.66	0.596	2964.8
3200	1.661	34.678	2.94	1.421	27.757	36.992	45.813	2.791	303.0	-0.37	0.013	1.63	0.466	3160.9
3400	1.646	34.679	3.01	1.386	27.761	36.997	45.820	2.882	333.9	-0.12	0.005	0.54	0.267	3356.8
3600	1.652	34.679	3.05	1.371	27.762	36.999	45.823	2.975	367.1	-0.05	0.002	0.22	0.172	3552.5
3800	1.662	34.680	3.07	1.360	27.763	37.001	45.826	3.070	402.7	-0.03	0.002	0.18	0.154	3748.1
3907	1.672	34.680	3.06	1.358	27.764	37.002	45.826	3.121	422.7	-0.01	0.001	0.18	0.000	3852.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	11.6	28.730	28.727	21.580	29.807	37.684	34.231	34.233	5.25	0.00	0.26	0.59	0.01	1.622	0.850	11	222222222
23	22.4	28.364	28.358	21.641	29.877	37.763	34.151	34.176	4.86	0.20	0.26	0.69	0.01	1.590	0.851	22	222222222
22	46.3	26.149	26.138	22.413	30.702	38.637	34.232	34.236	4.61	0.92	0.57	1.85	1.25	1.673	0.910	46	222222222
21	70.5	20.727	20.714	24.209	32.644	40.715	34.523	34.451	2.18	8.79	1.66	20.43	0.37	1.342	0.705	70	222222222
20	96.3	15.138	15.123	25.783	34.397	42.637	34.789	34.771	0.15	19.64	2.38	31.15	0.05	0.542	0.304	95	222222222
19	121.1	13.720	13.703	26.137	34.803	43.091	34.854	34.856	0.05	19.43	2.45	31.71	0.09	0.342		120	222222225
18	146.7	13.207	13.186	26.234	34.919	43.226	34.843	34.845	0.06	20.25	2.40	33.14	0.16	0.269		145	222222225
17	172.3	12.487	12.464	26.346	35.059	43.392	34.801	34.806	0.17	21.47	2.43	33.49	0.01	0.221	0.142	171	222222222
16	197.3	12.095	12.069	26.405	35.134	43.482	34.779	34.778	0.40	22.91	2.40	33.39	0.01	0.203		196	222222225
15	246.9	11.319	11.288	26.541	35.301	43.678	34.765	34.759	0.06	27.10	2.56	32.73	0.07	0.083	0.052	245	222222222
14	297.2	10.517	10.481	26.639	35.433	43.842	34.705	34.720	0.06	31.81	2.69	30.34	1.46	0.042		295	222222225
13	396.8	9.367	9.323	26.781	35.626	44.082	34.636	34.651	0.05	38.45	2.87	34.66	0.04	0.009		394	222222225
12	496.9	7.885	7.835	26.978	35.890	44.408	34.592	34.593	0.05	53.08	3.12	34.92	0.28	0.002		493	222222225
11	597.2	6.851	6.795	27.113	36.073	44.637	34.576	34.569	0.05	63.82	3.26	40.50	0.00	-0.002	-0.004	592	222222222
10	695.7	6.126	6.063	27.207	36.202	44.798	34.572	34.563	0.09	71.58	3.28	43.60	0.00			690	222222255
9	797.2	5.497	5.428	27.285	36.310	44.936	34.571	34.557	0.23	79.76	3.33	45.20	0.00			791	222222255
8	997.5	4.640	4.559	27.379	36.448	45.115	34.564	34.563	0.67	93.88	3.30	45.10	0.00			989	222222255
7	1296.8	3.640	3.542	27.505	36.626	45.341	34.589	34.588	1.21	115.56	3.17	43.60	0.00			1285	222222255
6	1698.6	2.793	2.671	27.611	36.778	45.536	34.620	34.618	1.68	135.50	3.07	42.30	0.00			1682	222222255
5	2100.5	2.142	1.995	27.693	36.897	45.688	34.652	34.649	2.20	151.35	2.87	40.60	0.00			2078	222222255
4	2499.7	1.879	1.701	27.728	36.947	45.754	34.667	34.667	2.51	157.90	2.80	39.60	0.00			2470	222222255
3	3002.3	1.760	1.537	27.745	36.973	45.789	34.673	34.674	2.74	159.73	2.73	39.10	0.00	-0.003	0.002	2964	222222222
2	3504.4	1.645	1.375	27.762	36.999	45.823	34.679	34.681	3.03	158.81	2.68	38.40	0.00	-0.001		3456	222222225
1	3910.2	1.672	1.358	27.763	37.001	45.826	34.679	34.680	3.05	158.00	2.68	38.40	0.00	-0.002	-0.001	3852	222222222

CRUISE: MW 893 STA: 187 DATE (D/M/Y): 2- 5-89 TIME: 1615 LAT: 9 29.84 N LONG: 106 9.91 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1495.9 M/S Depth= 3360 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.705	34.166	5.07	28.705	21.538	29.766	37.644	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.705	34.166	5.07	28.705	21.538	29.766	37.644	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.721	34.199	5.09	28.716	21.559	29.787	37.664	0.125	0.1	-2.03	6.706	134.36	4.234	20.0
30	28.633	34.240	5.10	28.626	21.620	29.849	37.728	0.187	0.3	-37.08	0.268	292.93	6.252	30.0
40	28.083	34.272	5.16	28.074	21.826	30.067	37.958	0.248	0.5	-144.56	0.412	1110.96	12.176	40.0
50	26.006	34.240	4.69	25.995	22.464	30.756	38.695	0.306	0.8	-220.99	2.100	1644.54	14.814	50.0
100	15.217	34.753	0.30	15.201	25.738	34.350	42.588	0.484	2.1	-96.36	5.163	604.46	8.981	99.9
125	13.640	34.858	0.18	13.622	26.157	34.825	43.116	0.535	2.6	-20.73	0.524	115.93	3.933	124.8
150	13.005	34.838	0.15	12.985	26.271	34.963	43.277	0.581	3.3	-30.12	-1.120	126.19	4.103	149.7
200	11.936	34.784	0.22	11.910	26.439	35.175	43.528	0.666	4.8	-19.21	-1.186	65.97	2.967	199.5
250	11.262	34.753	0.43	11.231	26.541	35.305	43.684	0.745	6.6	-11.78	-0.461	43.67	2.414	249.2
300	10.759	34.731	0.31	10.723	26.616	35.401	43.800	0.820	8.7	-11.42	-0.492	40.27	2.318	298.9
350	10.154	34.702	0.16	10.113	26.701	35.511	43.934	0.892	11.1	-11.21	-0.550	37.07	2.224	348.6
400	9.594	34.672	0.10	9.548	26.773	35.607	44.054	0.962	13.8	-14.16	-0.771	43.71	2.415	398.3
450	8.849	34.631	0.08	8.801	26.861	35.729	44.206	1.027	16.6	-15.15	-0.808	44.97	2.450	448.0
500	8.184	34.599	0.07	8.132	26.939	35.837	44.343	1.089	19.6	-10.88	-0.405	33.99	2.130	497.7
600	7.139	34.567	0.06	7.081	27.067	36.014	44.565	1.203	26.0	-9.91	-0.164	32.73	2.090	597.0
700	6.221	34.560	0.08	6.158	27.185	36.175	44.768	1.306	32.8	-7.56	-0.036	25.29	1.837	696.2
800	5.606	34.559	0.17	5.537	27.262	36.282	44.903	1.400	40.0	-6.11	-0.004	20.14	1.639	795.4
900	5.051	34.559	0.35	4.976	27.329	36.377	45.023	1.488	47.6	-4.69	0.034	15.80	1.452	894.5
1000	4.621	34.564	0.59	4.540	27.382	36.452	45.119	1.570	55.5	-3.79	0.053	13.12	1.323	993.6
1200	3.932	34.581	1.02	3.840	27.469	36.575	45.275	1.721	72.5	-2.70	0.072	9.73	1.139	1191.6
1400	3.410	34.595	1.30	3.306	27.534	36.667	45.393	1.859	90.7	-2.34	0.071	8.52	1.066	1389.3
1600	3.000	34.609	1.59	2.884	27.584	36.739	45.487	1.985	110.1	-1.60	0.058	6.03	0.897	1586.9
1800	2.694	34.623	1.72	2.564	27.623	36.796	45.559	2.104	130.7	-1.83	0.083	7.26	0.984	1784.3
2000	2.348	34.640	1.95	2.206	27.667	36.859	45.640	2.215	152.1	-1.89	0.093	7.69	1.013	1981.5
2200	2.021	34.657	2.26	1.867	27.707	36.918	45.716	2.316	173.7	-1.18	0.059	4.90	0.809	2178.5
2400	1.896	34.665	2.42	1.727	27.724	36.942	45.748	2.411	196.1	-0.51	0.027	2.19	0.540	2375.4
2600	1.853	34.668	2.51	1.666	27.731	36.952	45.761	2.506	220.1	-0.23	0.011	1.01	0.368	2572.0
2800	1.828	34.670	2.57	1.623	27.736	36.959	45.770	2.600	246.2	-0.40	0.014	1.66	0.470	2768.5
3000	1.725	34.674	2.75	1.503	27.748	36.978	45.795	2.694	273.9	-0.42	0.014	1.75	0.483	2964.7
3200	1.673	34.677	2.88	1.433	27.756	36.989	45.810	2.786	303.2	-0.30	0.012	1.33	0.422	3160.9
3400	1.627	34.680	2.98	1.368	27.763	37.000	45.824	2.879	334.2	-0.52	0.021	1.33	0.000	3356.8
3417	1.628	34.679	2.99	1.367	27.762	37.000	45.824	2.886	336.9	-0.57	0.023	1.33	0.000	3373.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.1	28.725	28.723	21.561	29.789	37.666	34.205	34.201	4.84	0.30	0.26	0.19	0.01	1.625	0.861	7	222222222
23	47.0	24.803	24.793	22.867	31.190	39.157	34.287	34.308	3.79	3.63	0.98	9.35	0.15	1.642	0.868	46	222222222
22	95.4	14.744	14.729	25.871	34.499	42.752	34.791	34.763	0.10	21.86	2.40	32.10	0.00	0.460	0.226	94	222222222
21	121.6	13.621	13.604	26.161	34.830	43.121	34.858	34.858	0.05	24.08	2.40	32.10	0.00	0.323	0.171	120	222222222
20	145.5	12.948	12.928	26.286	34.981	43.297	34.843	34.832	0.06	25.29	2.43	33.10	0.00	0.243	0.152	144	222222222
19	171.7	12.341	12.318	26.381	35.100	43.438	34.810	34.804	0.09	27.20	2.46	33.90	0.00	0.181	0.095	170	222222222
18	196.6	11.804	11.779	26.454	35.195	43.554	34.772	34.777	0.18	28.51	2.44	33.70	0.00	0.151	0.098	195	222222222
17	247.0	11.285	11.254	26.538	35.300	43.678	34.753	34.748	0.46	29.62	2.40	34.10	0.00	0.141	0.087	245	222222222
16	296.2	10.746	10.710	26.618	35.403	43.802	34.730	34.727	0.29	32.34	2.51	35.00	0.00	0.078		294	222222225
15	397.8	9.668	9.623	26.764	35.595	44.039	34.677	34.669	0.08	39.70	2.77	35.30	0.00	0.014		395	222222225
14	497.8	8.141	8.090	26.944	35.844	44.351	34.597	34.594	0.05	54.10	3.05	35.60	0.00	0.002	0.007	494	222222222
13	597.3	6.952	6.896	27.092	36.047	44.607	34.567	34.565	0.10	67.00	3.25	39.50	0.00	0.002	-0.001	593	222222222
11	798.0	5.542	5.473	27.269	36.293	44.916	34.558	34.555	0.19	83.82	3.32	44.90	0.00			791	222222255
10	997.3	4.642	4.561	27.379	36.448	45.114	34.564	34.563	0.62	98.23	3.29	45.00	0.00	-0.001	0.000	989	222222225
9	1247.8	3.772	3.677	27.489	36.603	45.311	34.585	34.584	1.12	115.86	3.18	43.70	0.00			1237	222222255
8	1499.3	3.156	3.046	27.564	36.711	45.450	34.603	34.602	1.46	130.37	3.09	42.70	0.00			1485	222222255
7	1599.4	2.983	2.867	27.587	36.743	45.491	34.611	34.609	1.60	134.60	3.05	42.40	0.00			1584	222222255
6	1749.2	2.785	2.659	27.612	36.780	45.538	34.620	34.619	1.71	138.53	3.05	42.09	0.01			1732	222222255
5	1999.5	2.334	2.193	27.671	36.863	45.645	34.643	34.640	1.96	150.22	2.95	41.39	0.01			1978	222222255
4	2400.5	1.885	1.716	27.727	36.945	45.751	34.667	34.665	2.45	160.39	2.85	39.59	0.01			2373	222222255
3	2804.1	1.822	1.617	27.738	36.962	45.773	34.672	34.670	2.59	161.00	2.78	39.19	0.01	-0.002		2769	222222225
2	3205.9	1.671	1.431	27.756	36.990	45.810	34.676	34.675	2.88	158.68	2.70	38.69	0.01			3163	222222255
1	3420.8	1.628	1.367	27.762	37.000	45.824	34.679	34.678	3.02	159.49	2.68	38.19	0.01	-0.002		3374	222222225

CRUISE: MW 893 STA: 188 DATE (D/M/Y): 2- 5-89 TIME: 2251 LAT: 9 30.35 N LONG: 105 19.76 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24086E-04 1/S SOUND SPEED= 1494.8 M/S Depth= 3188 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.967	33.972	5.06	28.967	21.306	29.530	37.404	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.967	33.972	5.06	28.966	21.306	29.530	37.404	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.723	34.044	4.78	28.718	21.443	29.672	37.551	0.128	0.1	-12.03	15.412	366.41	6.989	20.0
30	28.485	34.256	4.82	28.477	21.681	29.913	37.795	0.191	0.3	-27.49	9.657	384.38	7.159	30.0
40	28.143	34.262	4.90	28.133	21.798	30.038	37.928	0.252	0.5	-144.68	-9.375	939.94	11.194	40.0
50	25.998	34.221	4.70	25.987	22.452	30.744	38.683	0.309	0.8	-180.53	8.104	1461.97	13.961	50.0
100	14.605	34.781	0.22	14.590	25.893	34.526	42.784	0.486	2.1	-126.62	4.773	760.10	10.067	99.9
125	13.012	34.802	0.16	12.995	26.242	34.934	43.248	0.534	2.6	-34.73	0.284	172.22	4.792	124.8
150	12.288	34.800	0.18	12.268	26.382	35.103	43.444	0.578	3.2	-24.82	-1.341	92.88	3.519	149.7
200	11.510	34.761	0.24	11.485	26.501	35.254	43.624	0.659	4.7	-13.51	-0.634	48.86	2.552	199.4
250	10.980	34.738	0.33	10.949	26.581	35.356	43.746	0.736	6.4	-10.89	-0.382	40.47	2.323	249.2
300	10.517	34.725	0.56	10.481	26.654	35.449	43.857	0.809	8.5	-9.24	-0.337	33.30	2.107	298.9
350	9.993	34.701	0.20	9.952	26.727	35.544	43.974	0.880	10.8	-12.76	-0.840	37.74	2.243	348.6
400	9.388	34.670	0.09	9.343	26.805	35.648	44.103	0.948	13.4	-10.67	-0.470	34.65	2.149	398.3
450	8.898	34.643	0.06	8.849	26.863	35.728	44.204	1.013	16.2	-11.55	-0.599	34.59	2.147	448.0
500	8.217	34.614	0.06	8.165	26.946	35.842	44.346	1.074	19.2	-12.66	-0.561	38.07	2.253	497.7
600	7.139	34.587	0.06	7.081	27.082	36.029	44.579	1.187	25.5	-8.16	-0.163	26.55	1.881	597.0
700	6.413	34.567	0.11	6.349	27.166	36.147	44.730	1.290	32.4	-6.90	-0.144	21.18	1.681	696.2
800	5.672	34.558	0.24	5.602	27.254	36.271	44.889	1.386	39.7	-5.77	-0.018	19.16	1.598	795.4
900	5.144	34.561	0.37	5.068	27.320	36.363	45.006	1.475	47.4	-6.24	0.045	21.24	1.683	894.5
1000	4.596	34.567	0.64	4.516	27.386	36.458	45.126	1.558	55.4	-5.00	0.067	17.17	1.513	993.6
1200	3.946	34.581	0.98	3.853	27.468	36.573	45.273	1.708	72.2	-2.54	0.073	9.24	1.110	1191.5
1400	3.444	34.597	1.28	3.340	27.532	36.663	45.388	1.846	90.5	-2.42	0.086	9.16	1.105	1389.3
1600	3.085	34.610	1.57	2.968	27.577	36.728	45.471	1.974	110.1	-1.82	0.062	6.85	0.955	1586.9
1800	2.765	34.622	1.83	2.635	27.616	36.785	45.544	2.095	131.0	-1.59	0.040	5.75	0.876	1784.3
2000	2.464	34.635	1.91	2.321	27.653	36.839	45.614	2.208	153.0	-1.76	0.096	7.40	0.993	1981.5
2200	2.162	34.650	2.17	2.006	27.691	36.894	45.685	2.314	175.6	-1.57	0.075	6.45	0.927	2178.5
2400	1.937	34.663	2.39	1.767	27.720	36.935	45.738	2.412	198.5	-0.69	0.037	2.96	0.628	2375.4
2600	1.875	34.667	2.49	1.687	27.729	36.949	45.757	2.507	222.8	-0.24	0.013	1.04	0.373	2572.0
2800	1.842	34.670	2.55	1.637	27.735	36.958	45.768	2.602	249.0	-0.23	0.010	0.99	0.363	2768.5
3000	1.802	34.672	2.63	1.578	27.741	36.967	45.780	2.697	277.2	-0.43	0.016	1.84	0.495	2964.8
3153	1.736	34.675	2.76	1.499	27.750	36.980	45.797	2.770	299.9	-0.70	0.029	1.84	0.000	3114.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.1	28.670	28.668	21.490	29.720	37.600	34.086	34.014	4.99	0.00	0.25	0.11	-0.01	1.596	0.875	6	222222222
23	47.2	25.306	25.296	22.670	30.980	38.936	34.229	34.290	3.73	3.53	0.93	8.30	1.40	1.581	0.830	46	222222222
22	72.0	17.830	17.817	25.067	33.590	41.745	34.672	34.626	0.38	15.41	2.23	28.71	0.19	0.840	0.484	71	222222222
21	95.9	13.841	13.827	26.081	34.742	43.026	34.815	34.791	0.07	23.07	2.44	31.97	0.03	0.365		95	222222225
20	121.8	12.717	12.700	26.304	35.008	43.332	34.808	34.800	0.10	25.79	2.47	33.50	0.00	0.211	0.128	121	222222222
19	145.7	12.021	12.002	26.427	35.159	43.509	34.791	34.785	0.20	27.40	2.47	33.70	0.00	0.172		144	222222225
18	171.6	11.734	11.712	26.485	35.228	43.589	34.795	34.771	0.19	28.61	2.49	33.60	0.00	0.137		170	222222225
17	196.4	11.426	11.401	26.511	35.268	43.641	34.754	34.755	0.37	29.42	2.46	34.10	0.00	0.129	0.072	195	222222222
16	245.7	10.788	10.758	26.609	35.392	43.789	34.729	34.730	0.33	31.53	2.53	34.90	0.00	0.084	0.060	244	222222222
15	296.7	10.418	10.383	26.673	35.471	43.884	34.727	34.718	0.43	32.84	2.54	35.10	0.00	0.079	0.057	294	222222222
14	396.3	9.295	9.251	26.814	35.662	44.120	34.663	34.664	0.13	42.92	2.86	35.30	0.00	0.019		393	222222225
13	497.9	8.157	8.106	26.960	35.859	44.365	34.620	34.609	0.08	54.10	3.08	35.60	0.00	0.005	0.009	494	222222222
12	621.9	6.983	6.924	27.097	36.051	44.608	34.578	34.581	0.10	63.88	3.23	41.40	0.00			617	222222255
11	695.8	6.440	6.376	27.160	36.140	44.722	34.564	34.565	0.14	70.12	3.27	43.20	0.00			690	222222255
10	797.8	5.689	5.619	27.251	36.267	44.884	34.558	34.556	0.27	78.99	3.31	44.80	0.00			791	222222255
9	896.8	5.108	5.033	27.322	36.368	45.012	34.560	34.560	0.40	88.36	3.36	45.50	0.00			889	222222255
8	997.5	4.690	4.609	27.375	36.441	45.105	34.565	34.562	0.62	96.12	3.33	45.20	0.00	-0.001	0.001	989	222222222
7	1246.6	3.819	3.724	27.484	36.595	45.301	34.584	34.584	1.07	113.44	3.24	43.90	0.00			1235	222222255
6	1499.9	3.256	3.145	27.556	36.698	45.432	34.605	34.602	1.47	126.24	3.13	42.80	0.00			1486	222222255
5	1748.4	2.812	2.685	27.610	36.776	45.533	34.620	34.618	1.80	135.91	3.04	41.90	0.00			1731	222222255
4	2001.2	2.420	2.277	27.659	36.847	45.624	34.637	34.636	1.95	146.89	2.98	41.50	0.00			1980	222222255
3	2499.0	1.879	1.701	27.729	36.948	45.755	34.668	34.665	2.47	159.79	2.83	39.60	0.00	-0.001	-0.005	2470	222222222
2	3006.2	1.795	1.571	27.742	36.968	45.781	34.672	34.672	2.65	160.49	2.78	39.10	0.00			2968	222222255
1	3158.8	1.736	1.499	27.749	36.979	45.796	34.674	34.672	2.78	160.39	2.75	38.80	0.00	0.002	-0.001	3116	222222222

CRUISE: MW 893 STA: 189 DATE (D/M/Y): 3- 5-89 TIME: 0519 LAT: 9 30.00 N LONG: 104 29.99 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24071E-04 1/S SOUND SPEED= 1494.3 M/S Depth= 2888 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.755	33.590	3.86	28.755	21.089	29.322	37.205	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.755	33.590	3.86	28.755	21.089	29.322	37.205	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.728	33.908	5.10	28.724	21.339	29.569	37.449	0.131	0.1	-6.75	0.575	62.75	2.893	20.0
30	28.671	33.902	5.13	28.664	21.354	29.586	37.467	0.196	0.3	-14.83	-1.966	80.66	3.280	30.0
40	27.950	34.021	5.11	27.940	21.680	29.927	37.824	0.259	0.5	-112.55	37.171	1520.11	14.240	40.0
50	26.995	34.226	5.29	26.983	22.143	30.411	38.326	0.318	0.8	-85.74	0.961	659.70	9.381	50.0
100	14.148	34.879	0.49	14.133	26.066	34.715	42.988	0.491	2.0	-47.85	2.662	295.41	6.278	99.9
125	13.565	34.875	0.48	13.548	26.186	34.856	43.149	0.539	2.6	-21.34	-0.881	90.22	3.469	124.8
150	13.176	34.873	0.49	13.155	26.264	34.950	43.257	0.584	3.2	-10.64	0.253	60.29	2.836	149.7
200	12.252	34.813	0.59	12.226	26.401	35.123	43.465	0.671	4.7	-13.72	-0.440	55.81	2.729	199.5
250	11.757	34.790	0.65	11.725	26.478	35.221	43.582	0.753	6.6	-7.02	-0.339	25.75	1.853	249.2
300	11.295	34.765	0.60	11.257	26.546	35.308	43.687	0.832	8.9	-12.99	-0.637	46.27	2.484	298.9
350	10.648	34.736	0.36	10.605	26.641	35.430	43.834	0.908	11.4	-14.76	-0.651	51.97	2.633	348.7
400	10.028	34.709	0.15	9.981	26.728	35.544	43.973	0.980	14.1	-11.67	-0.519	39.51	2.296	398.4
450	9.309	34.675	0.07	9.258	26.822	35.669	44.127	1.048	17.0	-16.04	-0.710	52.12	2.637	448.0
500	8.705	34.649	0.06	8.651	26.899	35.773	44.256	1.111	20.1	-15.41	-0.653	48.28	2.538	497.7
600	7.180	34.595	0.05	7.122	27.083	36.027	44.576	1.227	26.6	-11.96	-0.351	37.13	2.226	597.0
700	6.397	34.578	0.15	6.333	27.176	36.158	44.742	1.329	33.4	-6.92	-0.147	21.37	1.689	696.2
800	5.837	34.570	0.20	5.766	27.242	36.251	44.861	1.425	40.7	-5.01	-0.056	15.90	1.456	795.4
900	5.309	34.561	0.44	5.233	27.300	36.335	44.970	1.515	48.5	-4.93	-0.050	15.50	1.438	894.5
1000	4.897	34.560	0.60	4.814	27.348	36.405	45.059	1.601	56.8	-4.31	0.030	14.53	1.392	993.6
1200	4.140	34.575	0.85	4.046	27.443	36.538	45.229	1.759	74.5	-3.70	0.082	13.27	1.330	1191.6
1400	3.536	34.593	1.22	3.431	27.520	36.646	45.367	1.901	93.3	-2.48	0.085	9.37	1.118	1389.4
1600	3.151	34.606	1.55	3.033	27.568	36.715	45.455	2.032	113.3	-1.84	0.050	6.69	0.944	1587.0
1800	2.802	34.617	1.72	2.671	27.609	36.776	45.534	2.155	134.6	-2.15	0.089	8.42	1.060	1784.4
2000	2.403	34.637	1.94	2.260	27.660	36.849	45.627	2.268	156.5	-1.74	0.083	7.07	0.971	1981.6
2200	2.099	34.652	2.20	1.944	27.697	36.903	45.698	2.371	178.7	-1.31	0.064	5.40	0.849	2178.6
2400	1.896	34.664	2.46	1.727	27.724	36.941	45.747	2.468	201.4	-0.64	0.036	2.79	0.610	2375.4
2600	1.852	34.667	2.55	1.665	27.731	36.952	45.761	2.562	225.4	-0.12	0.007	0.54	0.269	2572.1
2800	1.858	34.668	2.57	1.653	27.733	36.954	45.764	2.657	251.6	-0.05	0.002	0.22	0.172	2768.5
2921	1.865	34.669	2.57	1.648	27.733	36.955	45.765	2.716	268.6	-0.02	0.005	0.22	0.000	2887.3

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.9	28.748	28.746	21.333	29.563	37.443	33.911	33.911	4.98	0.00	0.26	0.51	-0.01	1.662	0.854	5	222222222
23	21.6	28.676	28.670	21.357	29.588	37.470	33.909	33.911	5.01	0.00	0.26	0.81	-0.01	1.592	0.839	21	222222222
22	47.1	26.572	26.561	22.320	30.598	38.523	34.285	34.232	5.07	0.50	0.30	1.18	0.02	1.771	0.941	46	222222222
21	71.6	16.968	16.956	25.298	33.850	42.031	34.704	34.726	0.88	16.32	2.04	26.80	2.00	0.706	0.375	71	222222222
20	95.3	13.999	13.985	26.107	34.761	43.039	34.891	34.893	0.43	19.85	2.17	32.48	0.02	0.437	0.237	94	222222222
19	121.1	13.422	13.405	26.211	34.887	43.185	34.870	34.869	0.48	21.16	2.19	32.78	0.02	0.363	0.212	120	222222222
18	145.4	13.052	13.032	26.277	34.968	43.279	34.858	34.872	0.48	22.67	2.22	33.29	0.01	0.293	0.177	144	222222222
17	172.0	12.248	12.225	26.400	35.122	43.464	34.811	34.811	0.64	24.58	2.23	33.19	0.01	0.269		170	222222225
16	195.9	12.071	12.045	26.430	35.159	43.508	34.805	34.808	0.62	25.69	2.27	33.69	0.01	0.229	0.150	194	222222222
15	246.3	11.532	11.501	26.507	35.259	43.628	34.773	34.780	0.76	27.00	2.26	33.70	0.00	0.207	0.131	244	222222222
14	297.2	10.919	10.882	26.600	35.377	43.770	34.746	34.744	0.51	30.23	2.42	35.40	0.00	0.136	0.086	295	222222222
13	396.4	9.727	9.682	26.765	35.594	44.035	34.692	34.689	0.11	39.59	2.76	34.10	0.00	0.030	0.028	393	222222222
12	497.4	8.399	8.347	26.933	35.821	44.318	34.633	34.633	0.04	50.98	3.00	35.10	0.00	0.005	0.003	494	222222222
11	597.5	7.360	7.301	27.063	35.998	44.540	34.601	34.599	0.04	61.16	3.17	38.40	0.00	0.002		593	222222225
10	747.0	6.078	6.011	27.211	36.209	44.807	34.570	34.566	0.22	72.34	3.22	43.70	0.00			741	222222255
9	997.0	4.919	4.836	27.343	36.398	45.052	34.557	34.559	0.60	90.37	3.26	44.60	0.00			989	222222255
8	1248.1	3.954	3.857	27.466	36.571	45.271	34.579	34.577	0.94	110.52	3.21	44.00	0.00			1237	222222255
7	1498.3	3.369	3.257	27.542	36.678	45.406	34.600	34.599	1.31	124.22	3.12	43.00	0.00			1484	222222255
6	1749.7	2.900	2.772	27.598	36.759	45.512	34.615	34.616	1.69	134.10	3.01	41.80	0.00			1732	222222255
5	1999.9	2.407	2.264	27.661	36.850	45.628	34.639	34.635	1.93	146.99	2.93	41.10	0.00			1979	222222255
4	2251.0	2.031	1.873	27.707	36.916	45.714	34.657	34.654	2.24	156.26	2.87	40.10	0.00			2226	222222255
3	2505.0	1.863	1.685	27.730	36.949	45.757	34.667	34.668	2.48	160.19	2.78	39.40	0.00	-0.001	0.005	2476	222222222
2	2704.3	1.854	1.658	27.732	36.953	45.762	34.668	34.671	2.50	160.90	2.78	39.30	0.00	0.000	0.003	2671	222222252
1	2924.4	1.865	1.648	27.733	36.955	45.764	34.668	34.673	2.52	160.90	2.77	39.30	0.00	-0.001	-0.001	2887	222222222

CRUISE: MW 893 STA: 190 DATE (D/M/Y): 3- 5-89 TIME: 0902 LAT: 9 29.98 N LONG: 104 9.92 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1493.9 M/S Depth= 2823 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.725	33.848	4.56	28.725	21.293	29.524	37.405	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.725	33.848	4.56	28.725	21.293	29.524	37.405	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.619	33.852	5.05	28.614	21.332	29.566	37.449	0.130	0.1	-1.26	1.105	29.37	1.980	20.0
30	28.601	33.873	5.01	28.594	21.355	29.589	37.472	0.194	0.3	-6.65	6.950	174.53	4.825	30.0
40	28.260	34.051	5.24	28.251	21.602	29.842	37.731	0.258	0.5	-122.12	20.784	1305.59	13.198	40.0
50	26.902	34.126	5.19	26.891	22.097	30.368	38.287	0.317	0.8	-120.79	11.314	1102.90	12.130	50.0
100	14.077	34.884	0.58	14.063	26.085	34.737	43.012	0.501	2.1	-69.93	3.463	427.31	7.550	99.9
125	13.470	34.895	0.64	13.452	26.221	34.895	43.191	0.548	2.6	-14.57	0.276	80.31	3.273	124.8
150	13.204	34.888	0.50	13.184	26.270	34.954	43.260	0.593	3.3	-19.55	-1.786	60.52	2.841	149.7
200	12.227	34.818	0.65	12.201	26.410	35.133	43.475	0.679	4.8	-14.14	-0.894	49.24	2.563	199.5
250	11.427	34.762	0.88	11.395	26.518	35.275	43.648	0.759	6.6	-12.20	-0.641	43.05	2.397	249.2
300	11.042	34.756	0.68	11.005	26.585	35.357	43.745	0.836	8.8	-7.17	-0.292	26.17	1.868	298.9
350	10.545	34.733	0.35	10.503	26.657	35.450	43.858	0.911	11.3	-13.44	-0.633	46.11	2.480	348.7
400	9.920	34.701	0.17	9.873	26.741	35.561	43.994	0.982	14.0	-11.04	-0.531	36.32	2.201	398.4
450	9.245	34.671	0.10	9.195	26.829	35.679	44.140	1.049	16.9	-16.22	-0.783	51.26	2.615	448.0
500	8.535	34.640	0.08	8.481	26.918	35.800	44.291	1.112	20.0	-16.07	-0.556	52.29	2.641	497.7
600	7.255	34.592	0.07	7.196	27.070	36.011	44.557	1.228	26.4	-10.76	-0.290	34.24	2.137	597.0
700	6.506	34.581	0.15	6.441	27.164	36.141	44.720	1.332	33.3	-7.46	-0.142	23.43	1.768	696.2
800	5.918	34.571	0.19	5.847	27.233	36.238	44.845	1.428	40.7	-5.53	-0.164	15.60	1.443	795.4
900	5.319	34.558	0.44	5.242	27.297	36.332	44.966	1.519	48.6	-5.57	0.007	18.62	1.576	894.5
1000	4.831	34.562	0.60	4.749	27.357	36.416	45.074	1.605	56.8	-4.43	0.051	15.25	1.427	993.6
1200	4.053	34.576	0.89	3.960	27.453	36.553	45.247	1.760	74.3	-3.42	0.087	12.38	1.285	1191.6
1400	3.516	34.594	1.22	3.411	27.523	36.650	45.372	1.900	92.8	-2.36	0.079	8.84	1.086	1389.4
1600	3.070	34.609	1.59	2.953	27.577	36.729	45.473	2.030	112.6	-2.18	0.060	7.95	1.030	1587.0
1800	2.764	34.619	1.72	2.634	27.614	36.783	45.542	2.150	133.4	-1.32	0.056	5.18	0.832	1784.4
2000	2.451	34.636	1.90	2.308	27.655	36.841	45.617	2.263	155.4	-1.70	0.082	6.91	0.960	1981.6
2200	2.104	34.653	2.17	1.949	27.697	36.903	45.697	2.368	177.9	-1.63	0.078	6.72	0.947	2178.6
2400	1.912	34.663	2.42	1.742	27.722	36.939	45.744	2.465	200.6	-0.63	0.033	2.69	0.599	2375.4
2600	1.843	34.668	2.53	1.657	27.732	36.954	45.763	2.559	224.6	-0.16	0.011	0.76	0.318	2572.1
2800	1.846	34.669	2.54	1.641	27.734	36.957	45.767	2.654	250.7	-0.05	0.002	0.76	0.000	2768.5
2845	1.850	34.669	2.55	1.641	27.734	36.956	45.766	2.676	256.9	-0.01	-0.003	0.76	0.000	2812.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.5	28.633	28.631	21.328	29.561	37.444	33.853	33.845	4.89	0.10	0.26	0.21	-0.01	1.647	0.893	6	222222222
23	47.1	25.654	25.644	22.545	30.846	38.794	34.203	34.199	4.54	0.60	0.58	1.82	0.78	1.653	0.928	46	222222222
22	71.2	17.390	17.379	25.191	33.728	41.896	34.695	34.682	1.07	15.52	2.01	25.65	1.65	0.771	0.436	70	222222222
21	97.6	13.996	13.982	26.106	34.761	43.038	34.889	34.882	0.48	20.25	2.19	31.79	0.01	0.433		97	222222225
20	122.5	13.441	13.424	26.219	34.895	43.192	34.886	34.887	0.52	21.56	2.22	32.09	0.01	0.351	0.201	121	222222222
19	146.9	13.017	12.997	26.226	34.919	43.232	34.782	34.866	0.50	22.67	2.25	32.49	0.01	0.309	0.183	146	222222222
18	172.3	12.607	12.584	26.352	35.060	43.388	34.840	34.835	0.52	24.28	2.28	32.99	0.01	0.257	0.159	171	222222222
17	196.9	12.248	12.222	26.406	35.129	43.470	34.819	34.811	0.64	25.29	2.28	32.79	0.01	0.246	0.154	195	222222222
16	246.3	11.461	11.430	26.528	35.282	43.654	34.782	34.770	0.83	27.30	2.29	32.79	0.01	0.209	0.127	244	222222222
15	296.6	11.033	10.996	26.584	35.357	43.745	34.752	34.749	0.68	29.52	2.40	33.99	0.01			294	222222255
14	347.2	10.567	10.525	26.651	35.444	43.851	34.731	34.731	0.38	32.54	2.54	35.19	0.01	0.094	0.057	344	222222222
13	397.9	9.973	9.927	26.735	35.553	43.984	34.705	34.702	0.15	37.58	2.73	35.30	0.00			395	222222255
12	496.9	8.658	8.605	26.898	35.774	44.260	34.639	34.643	0.06	49.37	3.01	35.00	0.00	0.009	0.011	493	222222222
11	597.8	7.291	7.233	27.077	36.016	44.560	34.607	34.591	0.04	61.86	3.23	39.00	0.00			593	222222255
10	690.6	6.608	6.543	27.153	36.124	44.699	34.583	34.580	0.16	66.90	3.26	43.40	0.00			685	222222255
9	797.5	5.816	5.745	27.243	36.253	44.864	34.567	34.568	0.22	77.07	3.33	45.40	0.00			791	222222255
8	997.8	4.793	4.711	27.366	36.427	45.086	34.568	34.560	0.59	94.10	3.33	45.80	0.00			989	222222255
7	1198.0	4.038	3.945	27.457	36.557	45.252	34.578	34.575	0.93	109.41	3.26	45.00	0.00			1187	222222255
6	1398.5	3.510	3.405	27.525	36.653	45.374	34.596	34.593	1.21	121.40	3.18	44.10	0.00			1385	222222255
5	1698.5	2.878	2.755	27.601	36.764	45.517	34.617	34.613	1.70	134.40	3.07	42.70	0.00			1682	222222255
4	1998.8	2.450	2.307	27.655	36.842	45.618	34.636	34.635	1.90	145.28	3.01	41.90	0.00			1978	222222255
3	2301.4	1.989	1.827	27.712	36.924	45.725	34.659	34.658	2.32	157.47	2.88	40.60	0.00			2275	222222255
2	2602.7	1.844	1.657	27.732	36.953	45.763	34.668	34.668	2.52	160.60	2.80	39.90	0.00	0.000	0.007	2572	222222252
1	2851.8	1.850	1.640	27.734	36.957	45.767	34.669	34.669		160.90	2.82	39.80	0.00	0.002	0.000	2816	225222225

CRUISE: MW 893 STA: 191 DATE (D/M/Y): 3- 5-89 TIME: 1230 LAT: 9 29.42 N LONG: 103 49.75 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24047E-04 1/S SOUND SPEED= 1495.2 M/S Depth= 3124 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.723	33.896	4.56	28.723	21.329	29.560	37.441	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.723	33.896	4.56	28.723	21.330	29.560	37.441	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.720	33.967	4.97	28.715	21.386	29.616	37.496	0.129	0.1	-3.14	1.218	45.98	2.478	20.0
30	28.730	34.011	4.92	28.722	21.416	29.646	37.525	0.193	0.3	-2.43	4.431	97.13	3.602	30.0
40	28.551	34.059	5.15	28.541	21.512	29.745	37.628	0.256	0.5	-127.40	11.410	1182.78	12.568	40.0
50	26.535	34.144	5.11	26.524	22.226	30.506	38.433	0.316	0.8	-121.10	7.792	1036.36	11.764	50.0
100	14.502	34.777	0.64	14.487	25.912	34.549	42.811	0.502	2.1	-97.41	1.682	543.39	8.518	99.9
125	13.164	34.791	0.69	13.147	26.202	34.889	43.198	0.551	2.7	-32.86	0.875	180.89	4.915	124.8
150	12.705	34.811	0.71	12.685	26.310	35.015	43.339	0.595	3.3	-20.73	-1.129	73.64	3.136	149.7
200	11.889	34.789	0.70	11.863	26.452	35.189	43.544	0.679	4.8	-11.66	-0.556	42.71	2.388	199.5
250	11.380	34.768	0.78	11.348	26.531	35.290	43.664	0.758	6.6	-7.81	-0.141	32.16	2.072	249.2
300	10.906	34.746	0.63	10.869	26.602	35.380	43.773	0.835	8.8	-9.52	-0.366	34.80	2.156	298.9
350	10.482	34.726	0.62	10.440	26.662	35.458	43.869	0.908	11.2	-8.53	-0.430	28.66	1.956	348.7
400	10.046	34.707	0.32	9.999	26.723	35.538	43.966	0.980	13.9	-11.62	-0.466	40.12	2.315	398.4
450	9.291	34.673	0.09	9.240	26.823	35.671	44.130	1.048	16.9	-14.26	-0.698	45.03	2.452	448.0
500	8.601	34.639	0.07	8.548	26.907	35.786	44.274	1.111	20.0	-15.08	-0.657	46.89	2.502	497.7
600	7.332	34.597	0.07	7.273	27.064	36.001	44.543	1.227	26.5	-9.84	-0.188	32.79	2.092	597.0
700	6.611	34.582	0.14	6.546	27.151	36.123	44.697	1.332	33.4	-5.73	-0.143	17.48	1.528	696.2
800	5.954	34.562	0.22	5.883	27.221	36.225	44.830	1.431	40.9	-6.51	-0.203	18.32	1.564	795.4
900	5.314	34.557	0.38	5.237	27.296	36.332	44.966	1.522	48.9	-5.84	0.028	19.86	1.628	894.5
1000	4.819	34.562	0.43	4.737	27.358	36.418	45.076	1.608	57.1	-4.03	0.039	13.73	1.354	993.6
1200	4.049	34.577	0.92	3.956	27.454	36.554	45.249	1.764	74.7	-3.48	0.095	12.78	1.306	1191.6
1400	3.568	34.592	1.21	3.462	27.516	36.641	45.360	1.905	93.3	-2.55	0.084	9.50	1.126	1389.4
1600	3.157	34.607	1.52	3.038	27.568	36.715	45.455	2.036	113.3	-1.82	0.058	6.78	0.952	1587.0
1800	2.829	34.616	1.74	2.697	27.606	36.772	45.528	2.158	134.5	-1.72	0.056	6.44	0.928	1784.4
2000	2.449	34.634	1.92	2.305	27.654	36.840	45.616	2.272	156.6	-1.91	0.096	7.85	1.024	1981.6
2200	2.119	34.651	2.17	1.964	27.695	36.900	45.694	2.377	179.0	-1.33	0.065	5.51	0.858	2178.6
2400	1.911	34.662	2.39	1.742	27.721	36.938	45.743	2.474	201.9	-0.75	0.038	3.17	0.650	2375.4
2600	1.853	34.666	2.50	1.666	27.730	36.951	45.760	2.569	226.0	-0.25	0.014	1.11	0.385	2572.1
2800	1.841	34.668	2.55	1.636	27.734	36.957	45.767	2.664	252.2	-0.05	0.003	0.22	0.172	2768.5
3000	1.859	34.668	2.55	1.634	27.734	36.957	45.767	2.760	280.7	0.00	0.001	0.03	0.068	2964.8
3143	1.873	34.668	2.54	1.634	27.734	36.957	45.767	2.830	302.6	0.00	0.000	0.03	0.000	3105.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.9	28.764	28.762	21.375	29.604	37.483	33.974	33.973	5.02	0.00	0.29	0.10	0.00	1.606	0.870	6	222222222
23	47.4	26.188	26.178	22.362	30.650	38.585	34.180	34.197	4.70	0.91	0.56	2.02	0.48	1.653	0.890	47	222222222
22	72.8	18.414	18.402	24.860	33.366	41.504	34.591	34.606	1.58	13.30	1.79	21.68	1.82	0.925	0.492	72	222222222
21	97.0	14.373	14.358	25.949	34.590	42.856	34.789	34.780	0.57	20.86	2.23	31.38	0.00	0.499	0.248	96	222222222
20	122.7	13.011	12.994	26.232	34.925	43.239	34.790	34.791	0.66	23.58	2.22	31.80	0.00	0.367	0.192	121	222222222
19	146.8	12.514	12.494	26.335	35.047	43.379	34.795	34.793	0.82	24.48	2.22	31.70	0.00	0.318	0.180	145	222222222
18	171.6	12.050	12.028	26.424	35.154	43.503	34.793	34.793	0.75	25.79	2.27	32.60	0.00	0.241	0.133	170	222222222
17	197.7	11.676	11.651	26.483	35.229	43.592	34.777	34.778	0.78	26.70	2.27	32.70	0.00	0.213	0.132	196	222222222
16	247.9	11.321	11.290	26.539	35.300	43.677	34.764	34.761	0.74	28.21	2.30	33.20	0.00	0.178	0.103	246	222222222
15	297.7	10.800	10.764	26.618	35.400	43.798	34.742	34.739	0.52	31.13	2.49	34.60	0.00	0.115		295	222222225
14	347.5	10.360	10.319	26.678	35.479	43.895	34.719	34.718	0.81	31.53	2.35	34.50	0.00	0.118	0.072	345	222222222
13	396.8	9.929	9.883	26.735	35.555	43.988	34.697	34.703	0.25	37.08	2.70	35.30	0.00	0.042	0.032	394	222222222
12	496.5	8.606	8.553	26.908	35.786	44.274	34.641	34.639	0.07	50.27	3.06	35.00	0.00	0.005	0.011	493	222222222
11	597.1	7.247	7.189	27.076	36.017	44.563	34.598	34.597	0.08	61.76	3.26	40.40	0.00			592	222222255
10	697.3	6.501	6.436	27.166	36.143	44.723	34.583	34.578	0.17	68.91	3.24	43.70	0.00			692	222222255
9	796.4	5.887	5.816	27.225	36.232	44.840	34.556	34.560	0.28	75.76	3.30	44.90	0.00			790	222222255
8	997.9	4.752	4.670	27.367	36.430	45.091	34.564	34.563	0.52	95.71	3.34	45.90	0.00			989	222222255
7	1196.0	4.044	3.951	27.455	36.555	45.250	34.578	34.577	0.97	109.92	3.26	44.90	0.00			1185	222222255
6	1397.0	3.532	3.427	27.521	36.648	45.368	34.594	34.595	1.23	121.40	3.16	43.90	0.00			1384	222222255
5	1697.1	2.959	2.835	27.593	36.751	45.500	34.615	34.613	1.69	134.20	3.09	42.70	0.00			1680	222222255
4	1998.8	2.439	2.296	27.657	36.844	45.620	34.637	34.639	1.93	147.80	2.97	41.90	0.00			1978	222222255
3	2300.4	2.008	1.846	27.710	36.921	45.720	34.658	34.659	2.32	158.88	2.87	41.00	0.00			2274	222222255
2	2601.3	1.850	1.663	27.731	36.952	45.761	34.667	34.667	2.49	161.10	2.81	40.00	0.00	-0.001	-0.001	2570	222222222
1	3148.0	1.873	1.634	27.734	36.957	45.767	34.668	34.670	2.57	161.40	2.78	39.60	0.00	0.000		3107	222222255

CRUISE: MW 893 STA: 192 DATE (D/M/Y): 3- 5-89 TIME: 1755 LAT: 9 29.86 N LONG: 103 10.10 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1495.9 M/S Depth= 3256 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.911	33.904	5.04	28.911	21.273	29.499	37.376	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.911	33.904	5.04	28.911	21.273	29.500	37.376	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
29	28.794	33.906	4.96	28.789	21.315	29.544	37.423	0.130	0.1	-3.04	0.756	37.05	2.223	29.0
30	28.717	33.911	4.96	28.709	21.346	29.576	37.457	0.194	0.3	-21.93	-0.301	165.39	4.698	30.0
40	27.890	34.017	5.13	27.881	21.697	29.946	37.844	0.258	0.5	-155.56	29.300	1705.19	15.084	40.0
50	26.420	34.178	4.87	26.408	22.288	30.571	38.500	0.316	0.8	-121.21	-2.818	845.88	10.624	50.0
100	15.326	34.790	0.75	15.311	25.742	34.350	42.583	0.503	2.1	-115.29	3.529	679.41	9.521	99.9
125	13.262	34.782	0.74	13.244	26.175	34.859	43.164	0.554	2.7	-32.57	1.087	189.40	5.027	124.8
150	12.793	34.797	0.77	12.772	26.282	34.983	43.305	0.599	3.4	-16.46	1.579	106.45	3.768	149.7
200	12.152	34.803	0.65	12.126	26.413	35.139	43.484	0.684	4.9	-11.71	-0.741	40.29	2.319	199.5
250	11.600	34.775	0.83	11.568	26.496	35.245	43.612	0.765	6.7	-9.09	-0.216	36.92	2.220	249.2
300	11.033	34.752	0.51	10.996	26.583	35.356	43.745	0.843	8.9	-9.77	-0.410	35.47	2.175	299.0
350	10.613	34.732	0.52	10.571	26.644	35.435	43.840	0.917	11.4	-10.10	-0.524	33.89	2.127	348.7
400	10.006	34.701	0.25	9.959	26.726	35.543	43.972	0.989	14.1	-13.45	-0.730	43.08	2.398	398.4
450	9.360	34.664	0.11	9.310	26.805	35.650	44.106	1.057	17.1	-12.65	-0.760	37.58	2.239	448.1
500	8.745	34.633	0.08	8.691	26.880	35.752	44.234	1.122	20.2	-17.10	-0.814	52.33	2.642	497.7
600	7.390	34.584	0.07	7.331	27.045	35.979	44.519	1.240	26.8	-12.53	-0.579	35.60	2.180	597.0
700	6.531	34.569	0.10	6.466	27.152	36.128	44.706	1.346	33.8	-7.14	-0.049	24.08	1.793	696.3
800	5.785	34.561	0.14	5.715	27.242	36.254	44.866	1.443	41.2	-7.24	-0.043	23.59	1.774	795.4
900	5.187	34.560	0.26	5.111	27.314	36.355	44.995	1.532	49.0	-6.28	0.023	20.95	1.672	894.6
1000	4.653	34.565	0.46	4.572	27.379	36.447	45.113	1.615	57.0	-3.80	0.055	13.14	1.324	993.6
1200	4.005	34.578	0.93	3.912	27.460	36.562	45.258	1.768	74.1	-2.90	0.077	10.48	1.183	1191.6
1400	3.449	34.596	1.30	3.345	27.530	36.662	45.386	1.907	92.5	-2.23	0.078	8.37	1.057	1389.4
1600	3.068	34.609	1.56	2.951	27.577	36.729	45.473	2.035	112.1	-1.76	0.068	6.78	0.951	1587.0
1800	2.766	34.619	1.76	2.636	27.614	36.782	45.542	2.155	133.0	-1.56	0.051	5.84	0.883	1784.4
2000	2.437	34.634	1.95	2.294	27.655	36.842	45.619	2.269	155.0	-1.72	0.085	7.06	0.971	1981.6
2200	2.153	34.649	2.12	1.997	27.691	36.894	45.686	2.374	177.5	-1.39	0.065	5.70	0.872	2178.6
2400	1.930	34.661	2.38	1.760	27.719	36.935	45.739	2.473	200.6	-0.85	0.043	3.61	0.694	2375.4
2600	1.848	34.666	2.51	1.661	27.731	36.952	45.761	2.568	224.9	-0.30	0.015	1.31	0.419	2572.1
2800	1.838	34.668	2.55	1.633	27.734	36.957	45.767	2.663	251.0	-0.05	0.003	0.25	0.183	2768.5
3000	1.851	34.668	2.56	1.627	27.735	36.958	45.769	2.759	279.4	-0.03	0.001	0.12	0.127	2964.8
3200	1.868	34.668	2.58	1.623	27.735	36.958	45.769	2.857	310.4	-0.01	0.002	0.09	0.112	3160.9
3305	1.878	34.669	2.56	1.622	27.735	36.959	45.770	2.909	327.8	-0.01	0.004	0.09	0.000	3263.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.5	28.811	28.809	21.306	29.535	37.413	33.903	33.905	5.04	0.20	0.24	-0.01	0.01	1.602	0.873	7	222222222
23	22.5	28.370	28.364	21.520	29.758	37.645	33.992	33.925	4.91	0.20	0.26	0.00	0.00	1.592	0.853	22	222222222
22	47.9	25.965	25.954	22.456	30.750	38.690	34.213	34.184	4.56	1.31	0.50	1.72	0.28	1.694	0.921	47	222222222
21	72.7	17.475	17.462	25.140	33.675	41.841	34.655	34.650	1.04	15.41	2.00	26.15	1.15	0.798	0.422	72	222222222
20	97.0	14.206	14.192	26.028	34.675	42.946	34.846	34.798	0.61	20.45	2.15	31.88	0.02	0.509	0.271	96	222222222
19	122.0	13.117	13.100	26.207	34.896	43.206	34.785	34.796	0.70	23.27	2.18	31.59	0.01	0.400	0.239	121	222222222
18	148.2	12.754	12.734	26.305	35.007	43.330	34.817	34.815	0.56	23.98	2.23	32.49	0.01	0.312	0.196	147	222222222
17	172.8	12.352	12.329	26.376	35.094	43.432	34.806	34.808	0.62	25.29	2.24	32.59	0.01	0.263	0.162	171	222222222
16	197.8	12.065	12.039	26.425	35.155	43.504	34.798	34.805	0.68	25.99	2.24	32.69	0.01	0.239	0.134	196	222222222
15	246.0	11.483	11.452	26.513	35.267	43.638	34.769	34.768	0.84	27.30	2.27	32.60	0.00	0.212		244	222222225
14	297.7	11.005	10.968	26.589	35.363	43.753	34.753	34.750	0.45	30.53	2.42	34.40	0.00	0.143	0.077	295	222222222
13	398.5	9.996	9.950	26.728	35.545	43.975	34.702	34.698	0.17	36.67	2.68	35.70	0.00	0.039	0.031	395	222222222
12	496.1	8.610	8.557	26.893	35.772	44.259	34.623	34.623	0.04	49.27	2.95	35.50	0.00	0.003		492	222222225
11	597.5	7.242	7.184	27.062	36.003	44.550	34.579	34.579	0.05	62.57	3.17	39.01	-0.01			593	222222255
10	698.6	6.383	6.318	27.171	36.153	44.738	34.569	34.564	0.13	70.32	3.22	43.41	-0.01			693	222222255
9	846.8	5.449	5.376	27.282	36.310	44.938	34.559	34.558	0.24	83.62	3.32	45.61	-0.01			840	222222255
8	999.0	4.713	4.632	27.372	36.438	45.100	34.565	34.563	0.45	96.62	3.32	45.90	0.00			990	222222255
7	1247.8	3.875	3.779	27.475	36.584	45.287	34.580	34.582	1.02	112.44	3.19	44.60	0.00			1237	222222255
6	1498.5	3.275	3.164	27.553	36.694	45.427	34.603	34.603	1.41	125.74	3.10	43.10	0.00			1484	222222255
5	1898.1	2.630	2.493	27.633	36.809	45.576	34.628	34.624	1.89	139.74	2.93	41.70	0.00			1878	222222255
4	2300.8	2.024	1.861	27.708	36.919	45.717	34.658	34.657	2.28	155.76	2.85	40.40	0.00			2275	222222255
3	2703.8	1.838	1.642	27.734	36.956	45.766	34.668	34.671	2.51	160.39	2.76	39.60	0.00	0.002		2671	222222225
2	3105.9	1.859	1.624	27.735	36.959	45.770	34.669	34.671	2.56	160.39	2.79	39.40	0.00	0.003	-0.001	3065	222222222
1	3308.3	1.878	1.622	27.735	36.958	45.769	34.668	34.670	2.56	160.49	2.76	39.40	0.00	0.001	-0.001	3264	222222222

CRUISE: MW 893 STA: 193 DATE (D/M/Y): 4- 5-89 TIME: 0135 LAT: 9 30.21 N LONG: 102 15.94 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24080E-04 1/S SOUND SPEED= 1496.2 M/S Depth= 3436 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.096	33.801	5.05	29.096	21.134	29.357	37.231	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.096	33.801	5.05	29.095	21.134	29.358	37.231	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.852	33.813	5.06	28.847	21.227	29.455	37.334	0.132	0.1	-18.77	0.690	158.88	4.603	20.0
30	28.603	33.840	5.03	28.596	21.329	29.564	37.447	0.198	0.3	-65.81	42.553	1262.74	12.977	30.0
40	27.808	34.302	5.14	27.799	21.938	30.185	38.082	0.259	0.5	-85.83	-1.830	621.56	9.104	40.0
50	26.178	34.254	4.79	26.167	22.421	30.709	38.643	0.316	0.8	-269.42	1.653	1992.55	16.301	50.0
100	14.374	34.779	0.27	14.359	25.941	34.583	42.849	0.487	2.0	-98.31	4.176	589.75	8.868	99.9
125	13.091	34.820	0.57	13.074	26.239	34.928	43.239	0.534	2.6	-28.55	0.306	144.83	4.395	124.8
150	12.514	34.800	0.67	12.494	26.339	35.051	43.383	0.578	3.2	-17.77	-0.729	70.46	3.065	149.7
200	11.856	34.781	0.78	11.830	26.452	35.191	43.547	0.661	4.7	-11.39	-0.430	43.99	2.422	199.5
250	11.394	34.768	0.81	11.363	26.529	35.287	43.661	0.741	6.5	-7.40	-0.315	27.26	1.907	249.2
300	10.986	34.750	0.63	10.949	26.591	35.365	43.756	0.818	8.6	-8.85	-0.297	33.39	2.110	298.9
350	10.466	34.729	0.33	10.424	26.667	35.464	43.875	0.891	11.1	-9.81	-0.538	32.22	2.073	348.6
400	9.915	34.696	0.14	9.868	26.738	35.558	43.991	0.962	13.8	-12.01	-0.609	38.99	2.280	398.3
450	9.357	34.670	0.08	9.306	26.810	35.655	44.112	1.030	16.7	-10.25	-0.556	31.48	2.049	448.0
500	8.689	34.636	0.06	8.635	26.891	35.766	44.250	1.095	19.9	-13.20	-0.601	40.96	2.337	497.7
600	7.352	34.583	0.05	7.293	27.049	35.986	44.528	1.213	26.5	-12.41	-0.344	38.87	2.277	597.0
700	6.304	34.567	0.07	6.241	27.180	36.166	44.754	1.316	33.3	-7.53	-0.089	24.39	1.804	696.2
800	5.755	34.562	0.14	5.685	27.246	36.259	44.873	1.411	40.6	-5.86	-0.010	19.15	1.598	795.4
900	5.122	34.562	0.27	5.046	27.323	36.367	45.010	1.500	48.2	-4.31	0.017	14.44	1.387	894.5
1000	4.724	34.565	0.43	4.643	27.371	36.436	45.098	1.583	56.3	-4.78	0.049	16.25	1.472	993.6
1200	3.983	34.579	0.97	3.890	27.463	36.566	45.264	1.736	73.4	-2.92	0.084	10.71	1.195	1191.6
1400	3.455	34.595	1.33	3.351	27.529	36.660	45.384	1.875	91.9	-2.66	0.086	9.89	1.148	1389.4
1600	3.065	34.610	1.59	2.948	27.578	36.731	45.475	2.003	111.4	-1.93	0.070	7.32	0.988	1586.9
1800	2.715	34.624	1.80	2.585	27.622	36.793	45.555	2.123	132.1	-1.70	0.070	6.64	0.941	1784.3
2000	2.381	34.638	1.99	2.239	27.662	36.852	45.632	2.234	153.7	-1.63	0.077	6.60	0.938	1981.5
2200	2.098	34.653	2.23	1.943	27.698	36.904	45.699	2.337	175.8	-1.50	0.072	6.15	0.906	2178.6
2400	1.899	34.664	2.47	1.729	27.723	36.941	45.746	2.434	198.4	-0.53	0.026	2.24	0.546	2375.4
2600	1.842	34.667	2.57	1.656	27.732	36.953	45.763	2.528	222.5	-0.22	0.011	0.93	0.352	2572.0
2800	1.834	34.669	2.60	1.629	27.735	36.958	45.769	2.622	248.5	-0.11	0.007	0.50	0.259	2768.5
3000	1.841	34.670	2.62	1.617	27.737	36.960	45.771	2.718	276.8	-0.02	0.002	0.10	0.118	2964.8
3200	1.856	34.670	2.64	1.612	27.737	36.961	45.773	2.816	307.7	-0.02	0.001	0.08	0.106	3160.9
3400	1.875	34.671	2.63	1.610	27.738	36.962	45.773	2.915	341.1	-0.01	0.006	0.08	0.000	3356.8
3411	1.876	34.671	2.61	1.609	27.738	36.962	45.774	2.921	343.0	-0.01	0.007	0.08	0.000	3367.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.8	28.815	28.813	21.248	29.478	37.357	33.827	33.819	4.94	0.40	0.24	0.09	0.01			6	222222255
23	20.2	28.098	28.093	21.807	30.049	37.939	34.256	34.239	5.08	0.81	0.31	0.19	0.01			20	222222255
22	47.8	23.756	23.747	23.207	31.557	39.550	34.325	34.322	3.31	5.44	1.19	11.58	1.42			47	222222255
21	71.8	18.348	18.336	24.844	33.351	41.492	34.548	34.573	0.83	15.11	2.20	28.28	0.12			71	222222255
20	96.6	13.517	13.503	26.119	34.793	43.089	34.777	34.808	0.17	23.37	2.39	32.17	0.03			96	222222255
19	120.4	12.942	12.925	26.263	34.959	43.275	34.813	34.814	0.55	24.18	2.24	32.19	0.01			119	222222255
18	147.0	12.401	12.381	26.366	35.083	43.419	34.807	34.793	0.70	25.79	2.27	32.09	0.01			146	222222255
17	170.9	12.106	12.083	26.413	35.141	43.488	34.793	34.786	0.71	26.70	2.26	32.49	0.01			169	222222255
16	196.3	11.830	11.805	26.457	35.196	43.554	34.781	34.779	0.85	27.30	2.27	32.29	0.01			195	222222255
15	246.7	11.383	11.352	26.532	35.290	43.665	34.769	34.765	0.78	28.81	2.30	32.99	0.01			245	222222255
14	298.2	10.900	10.863	26.614	35.392	43.786	34.760	34.745	0.50	32.14	2.46	34.59	0.01			296	222222255
13	396.1	9.877	9.831	26.743	35.565	44.000	34.695	34.690	0.18	38.69	2.77	35.79	0.01			393	222222255
12	497.5	8.676	8.623	26.893	35.769	44.253	34.636	34.636	0.03	50.17	2.99	34.79	0.01			494	222222255
11	596.6	7.352	7.294	27.066	36.002	44.544	34.604	34.582	0.05	61.76	3.20	38.00	0.00			592	222222255
10	696.1	6.306	6.243	27.180	36.166	44.754	34.567	34.567	0.09	72.24	3.26	43.20	0.00			691	222222255
9	796.3	5.750	5.680	27.247	36.260	44.874	34.562	34.560	0.16	80.00	3.35	45.20	0.00			790	222222255
8	997.5	4.715	4.634	27.375	36.440	45.102	34.568	34.561	0.49	96.92	3.37	45.90	0.00			989	222222255
7	1246.4	3.831	3.736	27.483	36.594	45.300	34.585	34.582	1.06	114.25	3.23	44.30	0.00			1235	222222255
6	1597.6	3.064	2.947	27.580	36.732	45.476	34.612	34.606	1.58	130.77		42.70	0.00			1582	222252255
5	1997.6	2.381	2.239	27.666	36.856	45.635	34.643	34.636	2.03	147.60	2.96	41.50	0.00			1976	222222255
4	2399.2	1.900	1.731	27.725	36.943	45.748	34.666	34.664	2.47	158.48	2.83	39.90	0.00			2372	222222255
3	2803.1	1.834	1.629	27.737	36.960	45.770	34.671	34.667	2.57	160.70	2.79	39.51	-0.01			2768	222222255
2	3204.6	1.857	1.612	27.739	36.963	45.774	34.673	34.668	2.61	161.10	2.79	39.31	-0.01			3162	222222255
1	3413.3	1.876	1.610	27.739	36.963	45.774	34.672	34.671	2.61	161.40	2.78	39.31	-0.01			3366	222222255

CRUISE: MW 893 STA: 194 DATE (D/M/Y): 4- 5-89 TIME: 0818 LAT: 9 29.94 N LONG: 101 30.05 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1495.9 M/S Depth= 3330 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.019	33.757	4.70	29.019	21.127	29.352	37.228	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.019	33.757	4.70	29.019	21.127	29.352	37.228	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.893	33.795	5.10	28.888	21.199	29.427	37.305	0.132	0.1	-33.80	-2.590	218.40	5.398	20.0
30	28.597	33.842	5.21	28.590	21.333	29.567	37.451	0.198	0.3	-59.93	42.694	1219.10	12.753	30.0
40	27.759	34.240	5.37	27.749	21.907	30.157	38.055	0.259	0.5	-166.20	-2.856	1208.29	12.697	40.0
50	25.393	34.237	4.69	25.382	22.650	30.958	38.911	0.315	0.8	-241.20	4.630	1816.79	15.569	50.0
100	13.812	34.778	0.40	13.798	26.058	34.721	43.007	0.468	1.9	-58.03	1.122	311.77	6.449	99.9
125	12.965	34.793	0.32	12.948	26.244	34.939	43.254	0.514	2.4	-20.18	0.219	100.90	3.669	124.8
150	12.500	34.794	0.53	12.480	26.337	35.050	43.383	0.559	3.0	-17.88	0.020	86.95	3.406	149.7
200	11.872	34.783	0.74	11.846	26.450	35.188	43.544	0.641	4.5	-10.33	-0.372	39.97	2.309	199.4
250	11.254	34.760	0.53	11.222	26.548	35.312	43.692	0.720	6.3	-10.66	-0.352	40.69	2.330	249.2
300	10.769	34.738	0.59	10.732	26.620	35.404	43.803	0.796	8.4	-8.69	-0.308	32.01	2.067	298.9
350	10.290	34.718	0.39	10.249	26.689	35.493	43.911	0.869	10.8	-10.15	-0.527	33.44	2.112	348.6
400	9.881	34.698	0.27	9.835	26.744	35.566	44.001	0.939	13.5	-9.35	-0.379	31.95	2.065	398.3
450	9.203	34.669	0.09	9.153	26.835	35.686	44.149	1.006	16.4	-14.92	-0.606	48.99	2.557	448.0
500	8.482	34.637	0.06	8.429	26.924	35.808	44.300	1.069	19.5	-13.79	-0.707	40.52	2.325	497.7
600	7.304	34.579	0.05	7.246	27.053	35.992	44.536	1.184	25.9	-9.07	-0.272	27.71	1.923	597.0
700	6.410	34.563	0.05	6.346	27.163	36.144	44.728	1.289	32.9	-7.90	-0.086	25.79	1.855	696.2
800	5.668	34.557	0.09	5.598	27.253	36.271	44.888	1.385	40.2	-6.19	-0.038	19.98	1.633	795.4
900	5.148	34.557	0.19	5.072	27.316	36.359	45.001	1.474	47.9	-5.06	0.024	16.87	1.500	894.5
1000	4.679	34.561	0.36	4.598	27.373	36.440	45.104	1.557	56.0	-4.42	0.058	15.34	1.431	993.6
1200	4.010	34.575	0.79	3.917	27.457	36.558	45.255	1.711	73.3	-3.53	0.090	12.70	1.302	1191.5
1400	3.403	34.594	1.15	3.299	27.533	36.667	45.393	1.850	91.6	-2.70	0.095	10.09	1.160	1389.3
1600	2.943	34.611	1.47	2.828	27.590	36.749	45.499	1.976	110.9	-1.94	0.074	7.35	0.990	1586.9
1800	2.583	34.627	1.78	2.455	27.636	36.814	45.582	2.092	131.0	-1.68	0.074	6.62	0.940	1784.3
2000	2.317	34.640	2.02	2.176	27.669	36.862	45.645	2.201	152.0	-1.36	0.066	5.52	0.858	1981.5
2200	2.048	34.654	2.26	1.894	27.703	36.911	45.708	2.302	173.7	-1.05	0.052	4.35	0.762	2178.5
2400	1.919	34.661	2.44	1.749	27.720	36.936	45.741	2.399	196.5	-0.63	0.031	2.66	0.595	2375.3
2600	1.848	34.667	2.55	1.661	27.731	36.952	45.761	2.494	220.6	-0.26	0.023	1.31	0.418	2572.0
2800	1.836	34.669	2.59	1.631	27.735	36.957	45.768	2.589	246.7	-0.14	0.008	0.64	0.292	2768.5
3000	1.835	34.669	2.63	1.611	27.737	36.961	45.772	2.684	275.0	-0.02	0.002	0.10	0.115	2964.7
3200	1.848	34.670	2.66	1.604	27.738	36.962	45.774	2.782	305.8	-0.01	0.002	0.07	0.096	3160.9
3387	1.868	34.671	2.65	1.604	27.738	36.963	45.775	2.874	336.9	0.00	0.004	0.07	0.000	3344.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	6.3	28.946	28.944	21.184	29.411	37.287	33.800	33.812	5.01	0.81	0.23	0.10	0.00			6	222222255
23	47.5	21.512	21.503	23.895	32.308	40.359	34.392	34.409	2.39	9.17	1.52	17.60	1.90			47	222222255
22	96.9	13.717	13.703	26.083	34.749	43.038	34.784	34.777	0.31	23.27	2.33	32.78	0.02			96	222222255
21	121.2	12.880	12.863	26.262	34.960	43.278	34.795	34.794	0.25	25.49	2.40	33.50	0.00			120	222222255
20	147.0	12.348	12.328	26.369	35.088	43.426	34.797	34.788	0.58	25.99	2.30	32.79	0.01			146	222222255
19	170.5	12.078	12.056	26.420	35.149	43.497	34.795	34.792	0.73	26.19	2.26	32.39	0.01			169	222222255
18	198.1	11.806	11.780	26.464	35.204	43.563	34.784	34.783	0.73	27.10	2.28	32.69	0.01			196	222222255
17	247.7	11.275	11.244	26.545	35.308	43.687	34.761	34.759	0.50	29.42	2.42	34.09	0.01			246	222222255
16	296.9	10.798	10.762	26.615	35.397	43.795	34.738	34.736	0.80	30.63	2.39	33.69	0.01			295	222222255
15	396.5	9.923	9.877	26.740	35.560	43.993	34.701	34.692	0.29	36.67	2.68	35.79	0.01			393	222222255
14	497.7	8.621	8.568	26.907	35.785	44.272	34.643	34.641	0.06	50.58	3.04	34.56	0.04			494	222222255
13	596.5	7.364	7.306	27.047	35.983	44.525	34.583	34.581	0.04	61.86	3.21	38.50	0.00			592	222222255
12	697.2	6.455	6.390	27.168	36.147	44.729	34.577	34.563	0.05	71.94	3.31	42.40	0.00			692	222222255
11	798.6	5.703	5.633	27.250	36.266	44.882	34.559	34.556	0.10	82.41	3.39	45.20	0.00			792	222222255
10	1046.2	4.503	4.419	27.397	36.473	45.145	34.566	34.562	0.49	102.97	3.40	46.20	0.00			1037	222222255
9	1296.3	3.665	3.567	27.503	36.622	45.336	34.588	34.585	1.02	120.09	3.27	44.90	0.00			1284	222222255
8	1550.3	3.030	2.918	27.582	36.736	45.481	34.611	34.607	1.41	135.51	3.13	43.59	0.01			1535	222222255
7	1801.1	2.566	2.438	27.638	36.817	45.586	34.628	34.628	1.81	146.79	3.04	42.39	0.01			1783	222222255
6	2050.8	2.229	2.085	27.682	36.880	45.667	34.647	34.643	2.10	153.85	2.92	41.29	0.01			2029	222222255
5	2301.3	1.980	1.818	27.713	36.926	45.727	34.660		2.36	158.98	2.86	40.29	0.01			2275	252222255
4	2549.5	1.862	1.680	27.730	36.950	45.758	34.667	34.664	2.52	160.19	2.81	39.79	0.01			2519	222222255
3	2803.7	1.836	1.631	27.733	36.956	45.766	34.666	34.667	2.58	160.19	2.80	39.59	0.01			2769	222222255
2	3005.8	1.835	1.610	27.736	36.960	45.772	34.669	34.669	2.63	160.29	2.80	39.39	0.01			2967	222222255
1	3390.7	1.868	1.604	27.737	36.962	45.774	34.670	34.670	2.65	160.19	2.79	39.29	0.01			3344	222222255

CRUISE: MW 893 STA: 195 DATE (D/M/Y): 4- 5-89 TIME: 1459 LAT: 9 29.82 N LONG: 100 39.68 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24063E-04 1/S SOUND SPEED= 1497.0 M/S Depth= 3592 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.059	33.886	5.03	29.059	21.211	29.434	37.307	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.059	33.886	5.03	29.059	21.211	29.434	37.307	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	28.858	33.920	5.14	28.853	21.305	29.532	37.410	0.131	0.1	-34.94	18.692	603.37	8.973	20.0
30	28.543	34.138	5.24	28.536	21.573	29.806	37.688	0.195	0.3	-93.85	16.080	1009.21	11.605	30.0
40	26.748	34.130	5.27	26.739	22.147	30.422	38.345	0.255	0.5	-228.23	21.561	2068.48	16.614	40.0
50	23.413	34.363	3.70	23.402	23.336	31.695	39.696	0.306	0.7	-567.52	16.219	4073.01	23.314	50.0
100	13.102	34.826	0.61	13.088	26.241	34.930	43.240	0.422	1.6	-15.70	1.319	99.79	3.649	99.8
125	12.864	34.836	0.65	12.847	26.297	34.995	43.314	0.466	2.1	-16.37	-1.875	43.15	2.399	124.7
150	12.537	34.817	0.61	12.517	26.347	35.059	43.389	0.510	2.7	-19.61	-1.966	54.80	2.704	149.6
200	11.845	34.787	0.69	11.819	26.459	35.198	43.555	0.593	4.2	-12.51	-0.485	47.86	2.527	199.4
250	11.289	34.756	0.80	11.258	26.539	35.301	43.679	0.671	6.0	-7.20	-0.202	28.29	1.943	249.1
300	10.872	34.740	0.88	10.835	26.603	35.383	43.778	0.748	8.1	-7.53	-0.292	27.46	1.914	298.9
350	10.458	34.722	0.59	10.416	26.664	35.461	43.872	0.821	10.6	-9.00	-0.462	30.13	2.005	348.6
400	9.970	34.701	0.17	9.924	26.732	35.550	43.981	0.893	13.3	-14.10	-0.728	45.71	2.470	398.3
450	9.233	34.660	0.09	9.183	26.822	35.673	44.134	0.961	16.2	-13.51	-0.920	37.69	2.243	448.0
500	8.588	34.616	0.07	8.534	26.891	35.771	44.259	1.025	19.3	-12.04	-0.503	37.72	2.244	497.6
600	7.272	34.576	0.06	7.214	27.055	35.996	44.541	1.142	25.9	-12.13	-0.272	39.33	2.291	596.9
700	6.351	34.563	0.06	6.287	27.170	36.155	44.741	1.247	32.8	-7.49	-0.092	24.30	1.801	696.2
800	5.762	34.561	0.10	5.692	27.245	36.258	44.871	1.342	40.2	-6.07	0.000	20.13	1.639	795.3
900	5.136	34.561	0.28	5.060	27.320	36.364	45.007	1.432	47.9	-6.11	-0.047	19.01	1.593	894.5
1000	4.662	34.565	0.42	4.582	27.378	36.446	45.111	1.514	55.9	-4.70	0.054	15.87	1.455	993.5
1200	3.880	34.579	0.75	3.789	27.473	36.582	45.285	1.664	72.7	-2.98	0.086	10.82	1.201	1191.5
1400	3.350	34.598	1.12	3.247	27.541	36.677	45.407	1.800	90.7	-2.46	0.076	8.96	1.094	1389.3
1600	2.920	34.614	1.43	2.805	27.595	36.754	45.505	1.925	109.7	-2.12	0.077	7.94	1.029	1586.9
1800	2.562	34.629	1.76	2.435	27.639	36.818	45.588	2.040	129.7	-1.76	0.077	6.88	0.958	1784.3
2000	2.257	34.645	2.04	2.117	27.678	36.874	45.660	2.146	150.3	-1.39	0.077	5.78	0.878	1981.5
2200	2.016	34.657	2.29	1.862	27.707	36.918	45.716	2.246	171.7	-0.88	0.040	3.55	0.688	2178.5
2400	1.880	34.665	2.48	1.711	27.726	36.944	45.751	2.342	194.1	-0.57	0.032	2.46	0.573	2375.3
2600	1.846	34.668	2.55	1.659	27.732	36.953	45.762	2.436	218.1	-0.23	0.011	0.97	0.360	2571.9
2800	1.827	34.670	2.61	1.622	27.736	36.959	45.770	2.530	244.0	-0.08	0.005	0.38	0.224	2768.4
3000	1.830	34.671	2.64	1.606	27.738	36.962	45.774	2.626	272.3	-0.05	0.004	0.26	0.187	2964.7
3200	1.846	34.671	2.66	1.602	27.739	36.963	45.775	2.723	303.0	-0.01	0.000	0.04	0.076	3160.8
3400	1.863	34.671	2.67	1.599	27.739	36.964	45.776	2.822	336.3	-0.01	0.000	0.02	0.055	3356.7
3600	1.885	34.671	2.67	1.599	27.739	36.964	45.776	2.923	372.3	0.00	0.002	0.02	0.000	3552.5
3641	1.889	34.671	2.65	1.598	27.739	36.964	45.776	2.944	380.1	0.00	0.003	0.02	0.000	3592.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	7.2	29.057	29.055	21.212	29.435	37.309	33.886	33.890	4.83	0.81	0.26	0.10	0.00	1.579	0.884	7	222222222
23	46.8	20.196	20.188	24.306	32.757	40.844	34.466	34.439	2.35	9.47	1.52	18.47	1.73	1.200	0.647	46	222222222
22	72.2	13.654	13.644	26.110	34.778	43.068	34.803	34.810	0.47	22.27	2.25	32.19	0.01	0.436	0.246	71	222222222
21	96.1	13.052	13.039	26.260	34.951	43.262	34.838	34.861	0.60	23.27	2.17	31.90	0.00	0.342	0.192	95	222222222
20	121.6	12.785	12.768	26.316	35.017	43.338	34.840	34.836	0.65	24.18	2.22	32.20	0.00	0.318	0.195	120	222222222
19	145.4	12.267	12.248	26.374	35.096	43.437	34.784	34.803	0.71	25.49	2.23	32.30	0.00	0.278	0.147	144	222222222
18	170.9	11.960	11.938	26.433	35.167	43.520	34.783	34.788	0.73	26.50	2.23	32.60	0.00	0.244	0.148	169	222222222
17	197.3	11.710	11.685	26.481	35.225	43.587	34.783	34.781	0.65	27.61	2.33	33.20	0.00	0.211	0.127	196	222222222
16	248.4	11.230	11.199	26.555	35.320	43.700	34.763	34.761	0.69	29.32	2.34	33.60	0.00	0.172	0.106	246	222222222
15	298.4	10.787	10.751	26.617	35.400	43.798	34.739	34.740	0.63	31.23	2.40	34.40	0.00	0.128	0.083	296	222222222
14	397.2	9.940	9.894	26.737	35.556	43.988	34.701	34.701	0.13	38.39	2.75	35.10	0.00	0.041	0.032	394	222222222
13	497.7	8.681	8.628	26.880	35.756	44.241	34.621	34.620	0.04	49.27	2.94	35.60	0.00	0.007		494	222222225
12	599.4	7.295	7.237	27.051	35.990	44.534	34.575	34.577	0.05	63.47	3.21	38.29	0.01	0.003		595	222222225
11	697.1	6.328	6.265	27.174	36.160	44.747	34.564	34.564	0.07	73.14	3.31	43.00	0.00			692	222222255
10	795.7	5.659	5.589	27.253	36.271	44.889	34.555	34.562	0.14	81.61	3.34	45.40	0.00			789	222222255
9	996.8	4.661	4.580	27.383	36.450	45.115	34.571	34.565	0.45	98.23	3.36	46.30	0.00			988	222222255
8	1195.5	3.894	3.803	27.474	36.582	45.284	34.582	34.579	0.79	114.35	3.36	45.70	0.00			1185	222222255
7	1396.0	3.352	3.249	27.540	36.677	45.406	34.597	34.597	1.16	126.44	3.22	44.60	0.00			1383	222222255
6	1799.9	2.532	2.405	27.646	36.827	45.598	34.635	34.632	1.80	144.78	3.02	42.30	0.00			1782	222222255
5	2201.8	2.008	1.854	27.709	36.920	45.719	34.658	34.657	2.35	156.87	2.88	40.60	0.00			2177	222222255
4	2601.1	1.840	1.654	27.733	36.954	45.764	34.668	34.667	2.59	159.99	2.81	39.80	0.00	0.005		2570	222222225
3	3002.8	1.831	1.607	27.738	36.962	45.774	34.670	34.670	2.64	160.39	2.80	39.50	0.00	-0.002		2964	222222225
2	3405.9	1.864	1.599	27.737	36.961	45.774	34.668	34.670	2.65	159.89	2.80	39.40	0.00	0.003		3359	222222225
1	3643.2	1.890	1.599	27.738	36.963	45.775	34.670	34.672	2.66	159.69	2.81	39.40	0.00	-0.001		3591	222222225

CRUISE: MW 893 STA: 196 DATE (D/M/Y): 4- 5-89 TIME: 2138 LAT: 9 30.53 N LONG: 99 51.63 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24093E-04 1/S SOUND SPEED= 1496.7 M/S Depth= 3577 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.556	34.143	2.13	29.556	21.237	29.446	37.306	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	29.556	34.143	2.13	29.555	21.237	29.446	37.307	0.020	0.0	-0.49	0.000	0.00	0.000	3.0
20	29.108	34.171	3.22	29.103	21.410	29.629	37.498	0.129	0.1	-17.83	5.483	237.28	5.624	20.0
30	28.488	34.247	3.43	28.481	21.673	29.906	37.788	0.192	0.3	-293.74	12.238	2464.20	18.123	30.0
40	24.428	34.383	3.38	24.419	23.052	31.383	39.358	0.248	0.5	-423.01	13.987	3207.91	20.677	40.0
50	20.858	34.507	1.72	20.849	24.161	32.591	40.659	0.290	0.7	-243.00	8.324	1695.74	15.034	50.0
100	13.479	34.808	0.21	13.465	26.151	34.826	43.122	0.422	1.7	-44.64	2.039	259.74	5.884	99.8
125	12.971	34.827	0.15	12.954	26.269	34.963	43.278	0.468	2.2	-15.30	-0.530	64.97	2.943	124.7
150	12.611	34.814	0.12	12.591	26.330	35.039	43.367	0.512	2.8	-22.01	-0.894	85.06	3.367	149.6
200	11.669	34.762	0.41	11.643	26.472	35.218	43.582	0.594	4.3	-14.67	-0.825	51.00	2.607	199.4
250	11.069	34.736	0.43	11.039	26.563	35.334	43.721	0.672	6.0	-10.68	-0.445	38.75	2.273	249.1
300	10.575	34.718	0.24	10.538	26.639	35.431	43.837	0.747	8.1	-9.35	-0.369	33.41	2.110	298.9
350	10.108	34.696	0.16	10.067	26.703	35.516	43.941	0.819	10.5	-11.24	-0.597	36.32	2.200	348.6
400	9.547	34.664	0.10	9.501	26.774	35.611	44.059	0.888	13.2	-12.16	-0.702	36.76	2.214	398.3
450	8.895	34.628	0.10	8.846	26.851	35.717	44.193	0.954	16.0	-14.73	-0.702	45.46	2.461	448.0
500	8.221	34.600	0.10	8.169	26.935	35.831	44.335	1.016	19.0	-15.62	-0.751	45.61	2.465	497.6
600	7.082	34.572	0.09	7.025	27.078	36.027	44.581	1.129	25.3	-8.39	-0.100	28.19	1.938	596.9
700	6.234	34.571	0.13	6.170	27.192	36.182	44.773	1.231	32.1	-6.74	-0.051	22.26	1.722	696.1
800	5.595	34.566	0.25	5.526	27.269	36.290	44.910	1.324	39.2	-6.28	-0.037	20.24	1.643	795.3
900	5.074	34.561	0.36	4.999	27.327	36.374	45.020	1.411	46.8	-5.14	-0.036	15.98	1.459	894.4
1000	4.601	34.565	0.44	4.520	27.384	36.455	45.123	1.493	54.7	-3.47	0.067	12.36	1.284	993.5
1200	3.862	34.579	0.71	3.770	27.475	36.584	45.288	1.644	71.7	-3.55	0.096	12.79	1.306	1191.5
1400	3.285	34.598	1.17	3.183	27.547	36.687	45.420	1.779	89.5	-2.49	0.097	9.43	1.121	1389.3
1600	2.841	34.616	1.58	2.726	27.603	36.767	45.522	1.902	108.2	-1.91	0.071	7.16	0.977	1586.8
1800	2.523	34.630	1.87	2.396	27.643	36.824	45.596	2.015	127.9	-1.79	0.082	7.04	0.969	1784.2
2000	2.206	34.646	2.15	2.066	27.683	36.882	45.670	2.120	148.2	-1.26	0.065	5.16	0.829	1981.4
2200	1.999	34.658	2.35	1.845	27.710	36.921	45.720	2.219	169.3	-0.84	0.042	3.44	0.677	2178.4
2400	1.882	34.664	2.53	1.713	27.725	36.943	45.750	2.314	191.6	-0.46	0.023	1.91	0.505	2375.3
2600	1.828	34.668	2.63	1.641	27.734	36.956	45.766	2.407	215.5	-0.17	0.011	0.80	0.326	2571.9
2800	1.819	34.670	2.67	1.615	27.737	36.961	45.772	2.501	241.4	-0.08	0.005	0.39	0.229	2768.4
3000	1.829	34.671	2.67	1.605	27.738	36.963	45.775	2.597	269.6	-0.02	0.002	0.13	0.129	2964.6
3200	1.841	34.671	2.69	1.597	27.739	36.964	45.776	2.694	300.3	-0.06	0.004	0.30	0.201	3160.8
3400	1.856	34.672	2.71	1.591	27.740	36.965	45.778	2.792	333.5	-0.01	0.001	0.05	0.081	3356.7
3600	1.876	34.672	2.68	1.590	27.740	36.965	45.778	2.893	369.4	0.00	0.001	0.05	0.000	3552.5
3625	1.879	34.672	2.70	1.590	27.740	36.966	45.778	2.906	374.0	0.00	0.001	0.05	0.000	3576.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.6	29.177	29.175	21.372	29.590	37.458	34.153	34.158	4.97	0.60	0.26	0.09	0.01	1.568	0.850	8	222222222
22	98.9	13.098	13.084	26.219	34.909	43.219	34.797	34.836	0.05	25.19	2.45	32.80	0.00	0.265		98	222222225
21	123.6	12.711	12.694	26.317	35.021	43.345	34.823	34.820	0.05	26.40	2.48	32.13	0.37	0.197	0.126	122	222222222
20	148.7	12.241	12.222	26.398	35.121	43.462	34.808	34.803	0.09	27.10	2.49	33.99	0.01	0.173	0.105	147	222222222
19	173.2	11.954	11.932	26.436	35.170	43.523	34.785	34.785	0.22	27.91	2.48	34.29	0.01	0.169	0.097	172	222222222
18	197.4	11.625	11.600	26.483	35.231	43.596	34.765	34.765	0.35	28.61	2.46	34.09	0.01	0.155	0.094	196	222222222
17	247.4	11.044	11.014	26.570	35.342	43.730	34.738	34.739	0.47	30.02	2.48	34.59	0.01	0.118		245	222222225
16	296.9	10.604	10.569	26.633	35.424	43.830	34.718	34.722	0.31	32.14	2.56	35.48	0.02	0.074	0.042	295	222222222
15	397.4	9.491	9.446	26.778	35.617	44.068	34.658	34.668	0.07	40.50	2.82	35.04	0.56	0.012		394	222222225
14	495.6	8.210	8.158	26.946	35.842	44.347	34.612	34.603	0.07	54.71	3.10	34.41	-0.01	0.007		492	222222225
13	594.4	7.062	7.005	27.081	36.031	44.585	34.571	34.574	0.09	65.69	3.26	38.90	0.00	0.011	0.020	590	222222222
12	693.3	6.200	6.137	27.200	36.191	44.784	34.576	34.573	0.11	73.55	3.32	44.00	0.00			688	222222255
11	794.0	5.594	5.525	27.260	36.281	44.903	34.555	34.567	0.25	81.61	3.37	45.60	0.00			788	222222255
10	991.7	4.616	4.537	27.378	36.449	45.116	34.560	34.564	0.52	97.63	3.37	46.00	0.00			983	222222255
9	1192.1	3.856	3.765	27.478	36.588	45.292	34.583	34.579	0.74	114.05	3.36	45.80	0.00			1181	222222255
8	1391.6	3.284	3.182	27.548	36.688	45.421	34.599	34.599	1.18	126.04	3.24	44.40	0.00			1379	222222255
7	1689.2	2.674	2.555	27.624	36.797	45.560	34.623	34.623	1.73	139.04	3.07	42.60	0.00			1672	222222255
6	1990.1	2.197	2.058	27.684	36.883	45.672	34.646	34.645	2.15	149.51	2.92	41.20	0.00	0.003		1969	222222225
5	2290.5	1.915	1.755	27.719	36.935	45.739	34.661	34.661	2.44	156.16	2.84	40.20	0.00			2265	222222255
4	2591.4	1.830	1.644	27.733	36.956	45.765	34.668	34.667	2.58	157.57	2.81	39.60	0.00			2560	222222255
3	2888.2	1.822	1.609	27.738	36.962	45.774	34.671	34.670	2.65	157.88	2.79	39.50	0.00			2852	222222255
2	3190.0	1.839	1.596	27.739	36.964	45.776	34.671	34.671	2.71	157.98	2.78	39.50	0.00	0.002		3148	222222225
1	3627.1	1.880	1.591	27.738	36.963	45.776	34.669	34.670	2.71	158.08	2.78	39.40	0.00	0.002	0.007	3576	222222222

CRUISE: MW 893 STA: 197 DATE (D/M/Y): 5- 5-89 TIME: 0444 LAT: 9 29.99 N LONG: 98 59.85 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1497.7 M/S Depth= 3669 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.212	33.433	4.76	29.212	20.820	29.044	36.919	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	29.212	33.433	4.76	29.212	20.820	29.045	36.919	0.021	0.0	-0.48	0.000	0.00	0.000	3.0
20	29.241	33.874	5.10	29.237	21.142	29.361	37.231	0.137	0.1	-10.98	33.750	682.45	9.542	20.0
30	28.886	34.219	5.22	28.878	21.521	29.744	37.618	0.202	0.3	-86.49	6.484	789.60	10.263	30.0
40	27.270	34.219	5.61	27.261	22.048	30.310	38.219	0.263	0.5	-211.73	18.976	1928.13	16.038	40.0
50	24.327	34.391	4.41	24.316	23.088	31.422	39.400	0.316	0.8	-347.05	13.710	2662.94	18.848	50.0
100	13.975	34.807	0.17	13.961	26.047	34.703	42.982	0.460	1.8	-61.92	2.114	351.59	6.849	99.9
125	13.039	34.830	0.29	13.022	26.257	34.949	43.261	0.506	2.3	-20.61	-0.598	93.68	3.535	124.8
150	12.563	34.804	0.31	12.543	26.332	35.042	43.372	0.550	3.0	-22.79	-1.091	87.77	3.422	149.7
200	11.864	34.771	0.95	11.838	26.442	35.181	43.537	0.634	4.4	-10.21	-0.269	41.50	2.353	199.4
250	11.310	34.757	0.71	11.279	26.536	35.297	43.675	0.713	6.3	-11.57	-0.462	42.87	2.392	249.2
300	10.823	34.738	0.46	10.787	26.611	35.392	43.789	0.789	8.4	-8.68	-0.351	31.30	2.043	298.9
350	10.358	34.715	0.20	10.316	26.675	35.477	43.892	0.862	10.8	-12.40	-0.769	38.60	2.269	348.6
400	9.647	34.673	0.09	9.602	26.764	35.596	44.041	0.932	13.5	-14.88	-0.785	46.73	2.497	398.3
450	8.892	34.630	0.07	8.843	26.854	35.719	44.195	0.998	16.4	-15.59	-0.825	46.45	2.489	448.0
500	8.162	34.604	0.06	8.110	26.946	35.845	44.352	1.060	19.4	-12.47	-0.135	45.14	2.454	497.7
600	7.124	34.585	0.04	7.066	27.083	36.030	44.582	1.173	25.7	-9.59	-0.248	29.92	1.998	597.0
700	6.287	34.574	0.09	6.223	27.188	36.175	44.764	1.275	32.4	-6.63	-0.063	21.80	1.705	696.2
800	5.710	34.567	0.18	5.640	27.256	36.271	44.887	1.369	39.6	-5.58	-0.103	16.81	1.497	795.4
900	5.212	34.561	0.24	5.136	27.312	36.352	44.991	1.458	47.4	-5.86	-0.038	18.40	1.567	894.5
1000	4.651	34.563	0.44	4.570	27.378	36.446	45.112	1.541	55.4	-4.02	0.067	14.05	1.369	993.5
1200	3.874	34.579	0.76	3.783	27.473	36.582	45.285	1.693	72.4	-3.61	0.098	13.03	1.319	1191.5
1400	3.317	34.596	1.36	3.214	27.543	36.681	45.412	1.828	90.3	-2.16	0.066	7.85	1.023	1389.3
1600	2.927	34.611	1.58	2.812	27.592	36.751	45.502	1.953	109.4	-2.04	0.095	8.02	1.034	1586.9
1800	2.533	34.630	1.86	2.406	27.642	36.823	45.594	2.068	129.3	-1.65	0.075	6.47	0.929	1784.3
2000	2.255	34.644	2.11	2.115	27.677	36.874	45.660	2.174	149.9	-1.43	0.073	5.83	0.882	1981.5
2200	2.017	34.656	2.31	1.864	27.707	36.917	45.716	2.274	171.2	-0.99	0.046	4.03	0.733	2178.5
2400	1.876	34.665	2.55	1.707	27.726	36.945	45.751	2.369	193.5	-0.51	0.025	2.13	0.533	2375.3
2600	1.832	34.668	2.64	1.645	27.733	36.955	45.765	2.463	217.4	-0.20	0.011	0.87	0.341	2572.0
2800	1.826	34.669	2.66	1.621	27.736	36.959	45.770	2.557	243.4	-0.09	0.005	0.40	0.230	2768.4
3000	1.830	34.670	2.68	1.606	27.738	36.962	45.774	2.652	271.6	-0.08	0.005	0.37	0.222	2964.7
3200	1.838	34.671	2.70	1.594	27.739	36.964	45.777	2.749	302.3	-0.04	0.003	0.21	0.166	3160.8
3400	1.854	34.671	2.71	1.590	27.740	36.965	45.778	2.848	335.5	-0.02	0.000	0.06	0.091	3356.8
3600	1.871	34.672	2.74	1.586	27.740	36.966	45.779	2.949	371.3	-0.02	0.001	0.09	0.113	3552.5
3755	1.886	34.672	2.75	1.583	27.741	36.966	45.779	3.028	401.0	-0.01	0.000	0.09	0.000	3704.1

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.0	29.208	29.206	21.210	29.429	37.299	33.951	33.724	5.01	0.50	0.24	0.10	0.00	1.601	0.937	8	222222222
23	49.3	23.425	23.415	23.392	31.750	39.750	34.442	34.423	3.76	2.32	1.14	8.98	1.92	1.692	0.896	49	222222222
22	98.6	13.437	13.423	26.206	34.881	43.179	34.868	34.831	0.06	23.58	2.38	32.90	0.00	0.358	0.229	98	222222222
21	125.0	12.891	12.874	26.284	34.981	43.298	34.826	34.824	0.18	24.18	2.37	33.30	0.00	0.275	0.157	124	222222222
20	148.1	12.576	12.556	26.334	35.043	43.373	34.809	34.817	0.21	26.40	2.37	33.60	0.00	0.227	0.140	147	222222222
19	173.4	12.081	12.058	26.424	35.153	43.501	34.801	34.794	0.32	27.10	2.38	33.10	0.00	0.197		172	222222225
18	198.3	11.835	11.810	26.455	35.194	43.552	34.780	34.777	0.86	27.20	2.21	31.80	0.00	0.259	0.146	197	222222222
17	248.4	11.285	11.254	26.547	35.309	43.687	34.765	34.771	0.61	29.22	2.32	34.10	0.00	0.170		246	222222225
16	296.8	10.781	10.745	26.628	35.412	43.810	34.752	34.744	0.45	32.34	2.45	34.50	0.00	0.114	0.077	294	222222222
15	392.6	9.738	9.693	26.765	35.593	44.034	34.694	34.684	0.05	39.90	2.74	35.00	0.00	0.016		390	222222225
14	495.2	8.149	8.098	26.952	35.851	44.358	34.608	34.605	0.04	56.02	3.09	32.58	0.82	0.004	0.010	491	222222222
13	594.4	7.091	7.034	27.090	36.038	44.591	34.588	34.585	0.04	66.60	3.22	38.80	0.00	0.004	0.008	590	222222222
12	693.6	6.275	6.212	27.193	36.180	44.770	34.578	34.577	0.10	73.95	3.27	43.90	0.00			688	222222255
11	841.7	5.493	5.421	27.280	36.307	44.932	34.564	34.565	0.22	84.43	3.33	45.50	0.00			835	222222255
10	992.5	4.663	4.583	27.380	36.447	45.112	34.567	34.566	0.47	99.14	3.39	45.80	0.00			984	222222255
9	1191.6	3.887	3.796	27.468	36.576	45.279	34.574	34.579	0.76	115.56	3.34	45.40	0.00			1181	222222255
8	1389.6	3.314	3.212	27.547	36.685	45.416	34.601	34.598	1.33	127.55	3.15	43.50	0.00			1377	222222255
7	1591.4	2.917	2.803	27.595	36.755	45.506	34.614	34.612	1.54	137.32	3.07	42.80	0.00			1576	222222255
6	1888.4	2.401	2.269	27.659	36.847	45.625	34.637	34.637	1.97	148.81	2.95	41.60	0.00			1869	222222255
5	2288.2	1.943	1.782	27.719	36.933	45.736	34.663	34.662	2.40	158.98	2.82	40.00	0.00		0.000	2262	222222255
4	2686.7	1.826	1.632	27.735	36.958	45.769	34.669	34.670	2.65	160.09	2.81	39.40	0.00			2654	222222255
3	3090.8	1.831	1.598	27.740	36.964	45.776	34.672	34.670	2.68	161.60	2.79	39.40	0.00	-0.005	-0.002	3051	222222222
2	3490.3	1.861	1.587	27.741	36.966	45.779	34.672	34.672	2.73	160.90	2.76	39.20	0.00	-0.002	-0.001	3442	222222222
1	3755.3	1.886	1.583	27.740	36.966	45.779	34.671	34.672	2.75	161.30	2.76	39.20	0.00	-0.002	-0.001	3701	222222222

CRUISE: MW 893 STA: 198 DATE (D/M/Y): 5- 5-89 TIME: 1144 LAT: 9 29.74 N LONG: 98 9.99 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24060E-04 1/S SOUND SPEED= 1496.5 M/S Depth= 3606 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.889	34.280	4.28	28.889	21.563	29.785	37.658	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.889	34.280	4.28	28.889	21.563	29.786	37.659	0.019	0.0	-0.48	0.000	0.00	0.000	3.0
20	28.938	34.269	5.14	28.934	21.540	29.762	37.634	0.125	0.1	-15.66	9.050	282.51	6.140	20.0
30	28.691	34.352	5.21	28.684	21.685	29.911	37.788	0.187	0.3	-68.42	2.695	579.15	8.792	30.0
40	27.083	34.330	5.33	27.074	22.191	30.456	38.369	0.246	0.5	-304.62	-18.413	1942.63	16.102	40.0
50	24.018	34.287	3.75	24.007	23.101	31.445	39.431	0.299	0.7	-210.80	19.172	1806.09	15.526	50.0
100	13.680	34.874	0.35	13.666	26.160	34.827	43.115	0.435	1.7	-26.96	1.878	168.63	4.744	99.9
125	13.347	34.888	0.69	13.330	26.240	34.919	43.219	0.481	2.2	-23.51	-2.397	69.02	3.035	124.7
150	12.800	34.827	0.81	12.780	26.303	35.004	43.325	0.525	2.9	-8.42	-0.149	34.77	2.154	149.6
200	12.219	34.801	0.80	12.192	26.398	35.122	43.465	0.611	4.4	-10.17	-0.312	41.26	2.347	199.4
250	11.661	34.773	0.86	11.629	26.484	35.230	43.595	0.693	6.3	-10.20	-0.408	38.61	2.270	249.1
300	11.126	34.753	0.47	11.089	26.568	35.337	43.722	0.771	8.5	-13.46	-0.743	45.84	2.474	298.9
350	10.563	34.728	0.18	10.521	26.650	35.442	43.849	0.846	10.9	-13.81	-0.634	47.68	2.523	348.6
400	9.936	34.697	0.09	9.889	26.735	35.554	43.987	0.917	13.7	-11.64	-0.533	38.78	2.275	398.3
450	9.280	34.657	0.05	9.229	26.813	35.662	44.121	0.985	16.6	-11.71	-0.619	35.94	2.190	448.0
500	8.496	34.621	0.04	8.442	26.910	35.793	44.286	1.049	19.7	-15.67	-0.629	49.30	2.565	497.7
600	7.246	34.580	0.03	7.188	27.062	36.003	44.550	1.165	26.2	-11.67	-0.249	37.84	2.247	596.9
700	6.291	34.566	0.02	6.227	27.180	36.167	44.757	1.268	33.0	-7.89	-0.089	25.53	1.846	696.2
800	5.522	34.560	0.17	5.453	27.273	36.297	44.922	1.362	40.2	-6.12	-0.030	19.86	1.628	795.3
900	5.047	34.561	0.49	4.972	27.331	36.379	45.026	1.449	47.7	-4.76	0.027	16.02	1.462	894.5
1000	4.614	34.565	0.76	4.533	27.383	36.454	45.121	1.531	55.7	-4.54	0.065	15.70	1.448	993.5
1200	3.937	34.580	0.99	3.844	27.468	36.574	45.274	1.682	72.6	-3.25	0.086	11.67	1.248	1191.5
1400	3.346	34.599	1.26	3.242	27.542	36.679	45.408	1.818	90.6	-2.26	0.080	8.45	1.062	1389.3
1600	2.932	34.613	1.48	2.817	27.593	36.752	45.502	1.942	109.7	-2.09	0.080	7.91	1.027	1586.9
1800	2.546	34.631	1.83	2.418	27.642	36.822	45.592	2.058	129.6	-1.77	0.086	7.06	0.971	1784.3
2000	2.253	34.646	2.09	2.113	27.679	36.875	45.661	2.164	150.2	-1.37	0.066	5.52	0.858	1981.5
2200	2.017	34.657	2.33	1.863	27.708	36.918	45.717	2.263	171.5	-1.02	0.048	4.18	0.747	2178.5
2400	1.903	34.664	2.49	1.733	27.723	36.941	45.746	2.359	193.9	-0.57	0.029	2.43	0.569	2375.3
2600	1.846	34.668	2.60	1.660	27.732	36.953	45.762	2.453	217.9	-0.19	0.011	0.86	0.338	2571.9
2800	1.828	34.670	2.65	1.623	27.737	36.960	45.771	2.547	243.9	-0.12	0.006	0.52	0.264	2768.4
3000	1.831	34.671	2.68	1.607	27.738	36.963	45.774	2.643	272.2	-0.07	0.004	0.34	0.213	2964.7
3200	1.842	34.672	2.70	1.598	27.740	36.964	45.776	2.740	302.8	-0.05	0.003	0.23	0.175	3160.8
3400	1.855	34.672	2.72	1.590	27.741	36.966	45.778	2.838	336.0	-0.01	0.001	0.06	0.091	3356.7
3535	1.867	34.672	2.72	1.588	27.741	36.966	45.778	2.906	359.9	-0.01	0.001	0.06	0.000	3488.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.5	28.949	28.947	21.538	29.760	37.631	34.273	34.273	5.02	0.60	0.27	0.10	0.00	1.625	0.857	8	222222222
23	50.6	22.413	22.403	23.773	32.158	40.183	34.562	34.396	3.22	6.05	1.29	14.20	1.30	1.616	0.858	50	222222222
22	73.7	14.043	14.032	26.069	34.722	42.999	34.856	34.828	0.63	20.65	2.13	30.60	0.00	0.523	0.297	73	222222222
21	98.3	13.585	13.571	26.199	34.869	43.160	34.899	34.895	0.31	22.37	2.24	32.70	0.00	0.362	0.215	97	222222222
20	124.5	13.099	13.082	26.274	34.963	43.272	34.867	34.879	0.57	23.07	2.18	31.90	0.00	0.342		123	222222225
19	150.0	12.770	12.750	26.314	35.016	43.338	34.833	34.828	0.70	24.48	2.17	31.70	0.00	0.330	0.203	149	222222222
18	172.9	12.443	12.420	26.395	35.109	43.443	34.853	34.810	0.71	25.19	2.19	32.00	0.00	0.290		171	222222225
17	197.4	12.204	12.178	26.410	35.134	43.477	34.812	34.807	0.70	25.79	2.22	32.30	0.00	0.260	0.167	196	222222222
16	247.9	11.599	11.568	26.495	35.244	43.611	34.773	34.773	0.80	27.30	2.23	32.50	0.00	0.225	0.121	246	222222222
15	298.9	11.117	11.080	26.569	35.338	43.723	34.752	34.754	0.48	29.92	2.40	34.10	0.00	0.140	0.089	297	222222222
14	398.1	10.021	9.974	26.723	35.540	43.969	34.701	34.702	0.15	37.58	2.71	34.60	0.00	0.044	0.029	395	222222222
13	495.4	8.665	8.612	26.881	35.758	44.243	34.619	34.632	0.05	49.47	2.98	32.73	0.37	0.010	0.004	492	222222222
12	595.2	7.298	7.240	27.064	36.003	44.547	34.592	34.581	0.06	63.37	3.19	37.88	0.12			590	222222255
11	696.5	6.301	6.237	27.181	36.168	44.756	34.569	34.566	0.08	72.34	3.27	43.10	0.00			691	222222255
10	793.2	5.530	5.462	27.273	36.298	44.921	34.562	34.560	0.24	81.91	3.31	45.30	0.00			787	222222255
9	993.1	4.607	4.528	27.385	36.456	45.124	34.567	34.566	0.77	96.42	3.24	44.80	0.00			985	222222255
8	1241.9	3.810	3.715	27.479	36.591	45.298	34.577	34.584	1.03	113.95	3.20	44.20	0.00			1231	222222255
7	1588.2	2.995	2.880	27.585	36.741	45.488	34.611		1.51	133.29	3.09	43.00	0.00			1573	252222255
6	1990.0	2.259	2.119	27.679	36.875	45.661	34.646	34.644	2.08	150.02	2.91	41.10	0.00			1969	222222255
5	2388.7	1.904	1.735	27.724	36.941	45.746	34.665	34.664	2.48	156.97	2.81	39.60	0.00			2361	222222255
4	2789.7	1.826	1.622	27.737	36.960	45.771	34.671	34.669	2.67	159.18	2.77	39.30	0.00			2755	222222255
3	3089.8	1.834	1.601	27.739	36.964	45.776	34.671	34.670	2.68	159.18	2.75	39.20	0.00	-0.002		3050	222222225
2	3387.5	1.854	1.590	27.741	36.966	45.778	34.672	34.673	2.72	158.78	2.76	39.10	0.00	0.003		3341	222222225
1	3536.2	1.868	1.589	27.740	36.965	45.778	34.672	34.672	2.74	158.68	2.79	39.10	0.00	-0.002	-0.001	3487	222222222

CRUISE: MW 893 STA: 199 DATE (D/M/Y): 5- 5-89 TIME: 1832 LAT: 9 29.92 N LONG: 97 19.86 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24068E-04 1/S SOUND SPEED= 1499.1 M/S Depth= 3942 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.547	34.316	4.63	29.547	21.369	29.577	37.436	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	29.547	34.316	4.63	29.546	21.369	29.577	37.436	0.019	0.0	-0.49	0.000	0.00	0.000	3.0
20	28.431	34.319	5.37	28.426	21.746	29.979	37.861	0.127	0.1	-237.65	-2.870	1778.90	15.406	20.0
30	26.406	34.453	5.22	26.399	22.498	30.778	38.705	0.184	0.3	-131.32	14.844	1231.36	12.818	30.0
40	24.867	34.402	3.98	24.859	22.934	31.254	39.218	0.235	0.5	-253.24	-25.290	1338.68	13.364	40.0
50	22.642	34.391	2.29	22.632	23.579	31.959	39.980	0.281	0.7	-286.92	21.952	2293.43	17.493	50.0
100	14.264	34.790	0.69	14.250	25.973	34.619	42.888	0.421	1.7	-67.46	0.589	354.78	6.880	99.8
125	13.162	34.799	0.66	13.145	26.209	34.896	43.204	0.469	2.2	-23.75	0.792	134.27	4.233	124.7
150	12.806	34.828	0.73	12.786	26.303	35.004	43.325	0.514	2.9	-11.02	0.405	62.02	2.877	149.6
200	12.092	34.801	0.71	12.066	26.422	35.151	43.499	0.599	4.4	-14.59	-1.032	48.21	2.536	199.4
250	11.549	34.773	0.73	11.517	26.504	35.256	43.624	0.679	6.2	-8.01	-0.216	32.01	2.067	249.1
300	11.074	34.746	0.54	11.036	26.572	35.343	43.730	0.757	8.4	-10.66	-0.597	36.03	2.193	298.9
350	10.634	34.722	0.12	10.592	26.633	35.423	43.827	0.832	10.9	-10.31	-0.532	34.71	2.152	348.6
400	9.962	34.688	0.07	9.915	26.723	35.542	43.973	0.904	13.7	-13.28	-0.602	44.53	2.438	398.3
450	9.136	34.650	0.07	9.086	26.830	35.685	44.151	0.972	16.6	-20.15	-0.825	65.61	2.959	448.0
500	8.237	34.613	0.06	8.185	26.942	35.838	44.341	1.035	19.6	-15.75	-0.597	49.34	2.566	497.6
600	7.114	34.580	0.04	7.056	27.081	36.028	44.580	1.148	26.0	-9.92	-0.217	31.80	2.060	596.9
700	6.144	34.564	0.05	6.081	27.198	36.192	44.788	1.250	32.7	-8.12	-0.075	26.68	1.887	696.2
800	5.555	34.559	0.17	5.486	27.269	36.291	44.914	1.344	39.9	-5.82	-0.030	18.83	1.585	795.3
900	5.081	34.558	0.35	5.006	27.325	36.371	45.016	1.431	47.5	-5.31	0.042	17.91	1.546	894.5
1000	4.630	34.564	0.69	4.549	27.380	36.450	45.117	1.513	55.4	-3.72	0.044	12.55	1.294	993.5
1200	3.898	34.580	0.94	3.806	27.472	36.579	45.281	1.664	72.3	-3.62	0.100	13.05	1.320	1191.5
1400	3.283	34.599	1.22	3.181	27.549	36.688	45.421	1.799	90.2	-2.30	0.082	8.57	1.069	1389.3
1600	2.919	34.614	1.64	2.803	27.595	36.754	45.506	1.923	109.1	-1.66	0.068	6.38	0.923	1586.9
1800	2.615	34.627	1.89	2.486	27.633	36.809	45.576	2.039	129.2	-1.51	0.063	5.89	0.886	1784.3
2000	2.335	34.640	2.03	2.193	27.668	36.860	45.642	2.148	150.3	-1.62	0.080	6.57	0.936	1981.5
2200	2.044	34.655	2.31	1.890	27.704	36.913	45.710	2.250	172.1	-1.06	0.053	4.38	0.765	2178.5
2400	1.901	34.663	2.49	1.732	27.723	36.940	45.745	2.346	194.8	-0.65	0.034	2.75	0.606	2375.3
2600	1.844	34.668	2.60	1.657	27.732	36.953	45.762	2.441	218.8	-0.27	0.016	1.20	0.400	2571.9
2800	1.824	34.670	2.67	1.620	27.736	36.960	45.771	2.535	244.8	-0.11	0.006	0.51	0.260	2768.4
3000	1.830	34.671	2.68	1.606	27.738	36.962	45.774	2.630	273.1	-0.06	0.004	0.27	0.190	2964.7
3200	1.841	34.671	2.71	1.597	27.739	36.964	45.776	2.727	303.7	-0.03	0.002	0.17	0.149	3160.8
3400	1.859	34.672	2.72	1.594	27.740	36.965	45.777	2.826	337.0	-0.01	0.000	0.05	0.081	3356.7
3600	1.876	34.672	2.74	1.590	27.740	36.965	45.778	2.927	372.9	-0.02	0.001	0.10	0.114	3552.5
3800	1.891	34.672	2.79	1.583	27.741	36.966	45.779	3.029	411.6	-0.02	0.001	0.11	0.123	3748.1
3991	1.911	34.672	2.78	1.582	27.741	36.967	45.779	3.129	451.1	0.00	0.000	0.11	0.000	3934.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.4	28.686	28.683	21.726	29.952	37.828	34.407	34.335	5.03	1.11	0.27	0.11	-0.01	1.610		10	222222225
23	50.0	20.581	20.572	24.206	32.645	40.721	34.468	34.512	2.05	10.07	1.75	22.30	0.20	1.371		49	222222225
22	99.8	13.664	13.650	26.101	34.769	43.060	34.793	34.789	0.69	21.96	2.14	30.90	0.00	0.501	0.266	99	222222222
21	123.3	13.043	13.026	26.211	34.903	43.216	34.771	34.804	0.64	23.47	2.19	31.80	0.00	0.387	0.205	122	222222222
20	147.8	12.722	12.702	26.313	35.017	43.341	34.819	34.820	0.65	23.98	2.20	32.00	0.00	0.325	0.193	146	222222222
19	171.5	12.461	12.438	26.357	35.071	43.405	34.809	34.818	0.72	24.99	2.21	32.00	0.00	0.304	0.171	170	222222222
18	195.8	12.182	12.156	26.420	35.145	43.489	34.820	34.812	0.63	25.69	2.25	32.50	0.00	0.255		194	222222225
17	248.8	11.601	11.569	26.496	35.245	43.612	34.775	34.776	0.62	27.91	2.29	33.20	0.00	0.194		247	222222225
16	296.3	11.102	11.066	26.572	35.342	43.728	34.754	34.750	0.55	29.92	2.38	34.10	0.00	0.143		294	222222225
15	396.2	9.932	9.885	26.729	35.549	43.982	34.689	34.691	0.03	40.60	2.79	30.59	1.01	0.018		393	222222225
14	495.7	8.202	8.151	26.947	35.844	44.349	34.612	34.619	0.05	56.42	3.09	31.12	1.28	0.012		492	222222225
13	645.3	6.619	6.558	27.143	36.114	44.688	34.574	34.570	0.05	69.52	3.25	41.81	-0.01	0.007	-0.001	640	222222222
12	794.5	5.523	5.455	27.275	36.299	44.924	34.563	34.561	0.18	82.41	3.34	45.60	0.00			788	222222255
11	944.8	4.774	4.698	27.366	36.428	45.088	34.567	34.564	0.61	93.90	3.27	45.40	0.00			937	222222255
10	1093.3	4.254	4.168	27.427	36.516	45.201	34.571	34.571	0.95	104.18	3.22	44.60	0.00			1084	222222255
9	1241.1	3.740	3.646	27.493	36.609	45.318	34.586	34.584	0.94	117.47	3.24	44.90	0.00			1230	222222255
8	1490.3	3.072	2.964	27.578	36.730	45.473	34.612	34.606	1.52	131.08	3.08	43.00	0.00			1476	222222255
7	1841.2	2.542	2.411	27.644	36.825	45.595	34.633		1.93	142.96	2.96	41.80	0.00			1822	252222255
6	2190.6	2.041	1.887	27.706	36.915	45.712	34.657	34.654	2.33	154.75	2.85	40.40	0.00			2166	222222255
4	2890.5	1.825	1.611	27.738	36.962	45.774	34.672	34.670	2.66	159.79	2.76	39.30	0.00			2854	222222255
3	3292.2	1.850	1.596	27.740	36.965	45.777	34.672	34.672	2.70	159.39	2.75	39.30	0.00	-0.001	0.005	3248	222222222
2	3692.6	1.884	1.588	27.741	36.966	45.779	34.672	34.673	2.74	159.18	2.75	39.20	0.00	-0.002	0.005	3640	222222222
1	3993.1	1.912	1.582	27.741	36.967	45.780	34.672	34.673	2.79	158.08	2.73	39.10	0.00	-0.002	-0.001	3933	222222222

CRUISE: MW 893 STA: 200 DATE (D/M/Y): 6- 5-89 TIME: 0141 LAT: 9 29.86 N LONG: 96 29.96 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1498.2 M/S Depth= 3775 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.129	33.972	4.74	29.129	21.252	29.472	37.343	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	29.129	33.972	4.74	29.129	21.252	29.473	37.344	0.020	0.0	-0.48	0.000	0.00	0.000	3.0
20	28.424	34.395	5.46	28.419	21.805	30.037	37.919	0.126	0.1	-142.96	-1.218	1085.23	12.034	20.0
30	26.683	34.372	5.21	26.676	22.350	30.624	38.545	0.184	0.3	-220.81	-2.537	1592.37	14.577	30.0
40	25.022	34.396	4.22	25.014	22.882	31.198	39.159	0.236	0.5	-83.79	14.964	864.14	10.738	40.0
50	23.973	34.548	4.00	23.962	23.312	31.654	39.639	0.284	0.7	-240.94	0.688	1668.02	14.919	50.0
100	13.859	34.837	0.19	13.845	26.094	34.754	43.038	0.425	1.7	-41.26	0.132	209.19	5.283	99.8
125	13.245	34.842	0.44	13.228	26.225	34.908	43.213	0.471	2.2	-10.65	1.741	85.99	3.387	124.7
150	12.856	34.828	0.37	12.836	26.293	34.991	43.311	0.516	2.9	-25.00	-2.775	68.65	3.027	149.6
200	12.092	34.775	1.03	12.065	26.402	35.132	43.480	0.602	4.4	-14.19	-0.507	55.91	2.731	199.4
250	11.428	34.771	0.47	11.396	26.525	35.281	43.654	0.683	6.2	-12.04	-0.599	42.87	2.392	249.1
300	10.925	34.738	0.32	10.888	26.592	35.370	43.762	0.759	8.4	-9.88	-0.328	37.16	2.227	298.9
350	10.398	34.717	0.24	10.356	26.670	35.470	43.884	0.833	10.8	-12.71	-0.579	43.72	2.415	348.6
400	9.549	34.664	0.05	9.504	26.774	35.610	44.059	0.904	13.5	-16.28	-1.081	47.12	2.508	398.3
450	8.908	34.640	0.04	8.859	26.859	35.724	44.199	0.969	16.4	-11.99	-0.568	37.04	2.223	448.0
500	8.291	34.613	0.03	8.238	26.934	35.827	44.328	1.031	19.4	-12.66	-0.270	43.38	2.406	497.6
600	7.145	34.589	0.01	7.086	27.084	36.030	44.580	1.145	25.7	-9.86	-0.262	30.91	2.031	596.9
700	6.260	34.568	0.03	6.197	27.187	36.175	44.765	1.247	32.5	-6.97	-0.101	22.23	1.722	696.2
800	5.651	34.561	0.04	5.582	27.258	36.277	44.895	1.342	39.7	-7.17	-0.033	23.20	1.760	795.3
900	5.011	34.563	0.19	4.937	27.336	36.386	45.035	1.429	47.3	-5.31	0.015	17.37	1.523	894.4
1000	4.552	34.568	0.49	4.472	27.392	36.465	45.136	1.510	55.1	-3.98	0.059	13.67	1.351	993.5
1200	3.842	34.583	0.82	3.751	27.480	36.590	45.295	1.659	71.8	-2.93	0.092	10.77	1.199	1191.5
1400	3.309	34.599	1.27	3.206	27.546	36.684	45.416	1.793	89.6	-2.37	0.080	8.74	1.080	1389.3
1600	2.887	34.616	1.53	2.772	27.599	36.761	45.513	1.917	108.5	-2.02	0.083	7.76	1.018	1586.9
1800	2.576	34.631	1.81	2.448	27.639	36.818	45.587	2.032	128.4	-1.64	0.079	6.56	0.936	1784.2
2000	2.295	34.643	2.09	2.154	27.673	36.868	45.652	2.139	149.3	-1.42	0.062	5.61	0.865	1981.4
2200	2.042	34.656	2.35	1.887	27.705	36.914	45.711	2.240	170.8	-1.01	0.051	4.21	0.750	2178.5
2400	1.923	34.663	2.52	1.753	27.721	36.937	45.742	2.336	193.4	-0.48	0.023	2.02	0.519	2375.3
2600	1.864	34.667	2.64	1.678	27.730	36.950	45.758	2.431	217.6	-0.25	0.013	1.08	0.380	2571.9
2800	1.845	34.670	2.75	1.640	27.735	36.957	45.767	2.526	243.8	-0.15	0.007	0.68	0.301	2768.4
3000	1.840	34.671	2.82	1.615	27.737	36.961	45.772	2.622	272.1	-0.11	0.005	0.49	0.257	2964.7
3200	1.842	34.672	2.86	1.598	27.739	36.964	45.776	2.719	302.8	-0.09	0.003	0.39	0.229	3160.8
3400	1.839	34.673	2.89	1.574	27.742	36.968	45.781	2.818	335.9	-0.12	0.006	0.57	0.276	3356.7
3600	1.843	34.673	2.93	1.557	27.744	36.971	45.785	2.917	371.5	-0.04	0.001	0.19	0.159	3552.5
3800	1.859	34.674	2.94	1.552	27.744	36.972	45.786	3.018	409.7	-0.02	0.001	0.19	0.000	3748.1
3849	1.864	34.674	2.92	1.552	27.744	36.972	45.786	3.044	419.5	-0.03	0.002	0.19	0.000	3796.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.7	29.108	29.106	21.567	29.783	37.651	34.381	34.368	5.20	1.01	0.29	0.11	-0.01	1.647	0.893	8	222222222
23	50.2	22.352	22.342	23.807	32.193	40.219	34.583	34.539	4.04	4.43	1.19	10.51	1.09	1.687	0.927	49	222222222
22	72.1	15.747	15.736	25.631	34.223	42.443	34.769	34.782	0.57	18.44	2.16	29.70	0.00	0.636	0.331	71	222222222
21	98.5	13.562	13.548	26.163	34.834	43.128	34.846	34.833	0.16	23.27	2.33	32.20	0.00	0.379	0.215	97	222222222
20	123.1	13.275	13.258	26.242	34.924	43.227	34.872	34.868	0.42	22.97	2.23	32.30	0.00	0.339	0.187	122	222222222
19	148.8	12.621	12.601	26.323	35.031	43.359	34.807	34.809	0.65	24.58	2.21	32.10	0.00	0.317	0.191	147	222222222
18	174.0	12.177	12.154	26.387	35.113	43.458	34.778	34.787	0.89	25.49	2.17	31.40	0.00	0.307	0.172	172	222222222
17	197.5	11.893	11.868	26.436	35.173	43.528	34.769	34.776	1.04	26.09	2.17	31.30	0.00	0.294		196	222222225
16	245.8	11.341	11.310	26.541	35.301	43.677	34.771	34.772	0.47	29.22	2.39	34.10	0.00	0.159		244	222222225
15	296.0	10.833	10.797	26.614	35.395	43.791	34.745	34.741	0.34	31.43	2.48	34.90	0.00	0.103	0.060	294	222222222
14	396.2	9.778	9.732	26.750	35.576	44.015	34.683	34.687	0.07	40.30	2.77	34.20	0.00	0.024	0.023	393	222222222
13	494.1	8.267	8.215	26.935	35.829	44.332	34.610	34.613	0.05	55.31	3.07	31.22	1.28	0.008	0.018	490	222222222
12	617.6	6.893	6.835	27.127	36.085	44.647	34.601	34.590	0.06	67.70	3.24	40.20	0.00	0.000	0.015	613	222222252
11	794.0	5.576	5.507	27.274	36.296	44.918	34.570	34.562	0.09	84.33	3.37	45.30	0.00			788	222222255
10	991.3	4.574	4.495	27.394	36.466	45.135	34.573	34.568	0.53	99.54	3.33	45.90	0.00			983	222222255
9	1237.9	3.718	3.624	27.496	36.613	45.323	34.587	34.586	0.90	118.08	3.25	45.10	0.00			1227	222222255
8	1488.6	3.072	2.964	27.579	36.730	45.473	34.612	34.606	1.34	131.98	3.14	43.60	0.00			1474	222222255
7	1738.5	2.680	2.556	27.626	36.799	45.562	34.626	34.624	1.81	139.94	3.00	42.20	0.00			1721	222222255
6	1989.2	2.295	2.155	27.675	36.869	45.653	34.645	34.641	2.07	148.91	2.91	41.30	0.00			1968	222222255
5	2388.9	1.919	1.750	27.723	36.939	45.743	34.665	34.665	2.58	156.16	2.78	39.60	0.00			2361	222222255
4	2795.3	1.843	1.638	27.736	36.958	45.768	34.671	34.668	2.72	155.86	2.75	39.20	0.00			2761	222222255
3	3190.3	1.841	1.598	27.740	36.965	45.777	34.673	34.670	2.82	155.56	2.72	39.10	0.00	-0.002	0.001	3148	222222222
2	3591.9	1.842	1.557	27.744	36.971	45.785	34.674	34.671	2.88	154.45	2.72	38.90	0.00			3541	222222255
1	3851.4	1.865	1.552	27.743	36.970	45.785	34.672	34.674	2.89	154.65	2.72	38.80	0.00	-0.002	-0.001	3795	222222222

CRUISE: MW 893 STA: 201 DATE (D/M/Y): 6- 5-89 TIME: 0925 LAT: 9 29.72 N LONG: 95 40.01 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24059E-04 1/S SOUND SPEED= 1497.3 M/S Depth= 3618 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.340	34.301	4.80	29.340	21.428	29.640	37.504	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	29.340	34.301	4.80	29.340	21.428	29.641	37.504	0.019	0.0	-0.49	0.000	0.00	0.000	3.0
20	29.200	34.303	5.04	29.195	21.478	29.694	37.560	0.127	0.1	-93.38	4.306	808.96	10.391	20.0
30	27.989	34.316	5.32	27.982	21.889	30.132	38.024	0.189	0.3	-183.38	-11.691	1192.09	12.614	30.0
40	26.174	34.234	5.01	26.165	22.406	30.694	38.629	0.245	0.5	-210.29	6.446	1644.23	14.814	40.0
50	24.061	34.338	3.40	24.050	23.127	31.469	39.454	0.296	0.7	-145.30	28.115	1506.59	14.180	50.0
100	14.359	34.817	0.88	14.344	25.973	34.615	42.881	0.446	1.8	-56.06	0.005	288.50	6.205	99.9
125	13.600	34.852	0.89	13.583	26.160	34.830	43.122	0.495	2.4	-17.45	1.799	120.60	4.012	124.8
150	13.117	34.846	0.42	13.096	26.255	34.943	43.253	0.541	3.0	-17.22	-0.519	78.02	3.227	149.7
200	12.419	34.813	0.37	12.393	26.369	35.085	43.420	0.628	4.6	-16.74	-0.828	62.94	2.898	199.4
250	11.073	34.774	0.54	11.641	26.482	35.228	43.592	0.710	6.5	-12.52	-0.712	43.65	2.414	249.2
300	11.147	34.754	0.51	11.110	26.565	35.333	43.717	0.789	8.7	-10.93	-0.677	35.81	2.186	298.9
350	10.565	34.720	0.24	10.522	26.643	35.436	43.843	0.864	11.1	-11.51	-0.504	40.30	2.319	348.6
400	9.907	34.689	0.11	9.861	26.733	35.554	43.988	0.936	13.9	-18.12	-0.897	58.95	2.805	398.3
450	8.989	34.641	0.10	8.940	26.847	35.708	44.180	1.003	16.8	-18.67	-0.798	59.49	2.818	448.0
500	8.089	34.611	0.09	8.037	26.963	35.865	44.375	1.064	19.8	-15.56	-0.573	48.33	2.540	497.7
600	6.933	34.586	0.07	6.875	27.110	36.066	44.626	1.175	26.0	-9.19	-0.151	30.14	2.006	597.0
700	6.152	34.565	0.08	6.089	27.198	36.191	44.787	1.275	32.6	-6.77	-0.077	21.76	1.704	696.2
800	5.570	34.563	0.20	5.501	27.270	36.292	44.914	1.368	39.7	-5.99	-0.003	19.86	1.628	795.4
900	5.108	34.564	0.29	5.033	27.326	36.372	45.015	1.456	47.3	-4.10	0.019	13.63	1.349	894.5
1000	4.660	34.565	0.58	4.579	27.378	36.446	45.112	1.538	55.3	-4.09	0.042	13.80	1.357	993.5
1200	3.891	34.582	0.88	3.799	27.474	36.582	45.284	1.690	72.3	-3.18	0.089	11.62	1.245	1191.5
1400	3.390	34.597	1.11	3.286	27.537	36.671	45.399	1.827	90.5	-2.67	0.094	9.97	1.154	1389.3
1600	2.919	34.616	1.52	2.803	27.596	36.756	45.507	1.952	109.6	-2.02	0.082	7.78	1.019	1586.9
1800	2.543	34.632	1.81	2.416	27.643	36.823	45.594	2.068	129.6	-1.86	0.082	7.32	0.988	1784.3
2000	2.271	34.645	2.03	2.130	27.677	36.873	45.658	2.174	150.2	-1.62	0.077	6.53	0.934	1981.5
2200	2.019	34.658	2.26	1.865	27.708	36.918	45.717	2.274	171.6	-1.17	0.054	4.75	0.796	2178.5
2400	1.876	34.666	2.53	1.707	27.727	36.946	45.752	2.369	193.9	-0.42	0.021	1.79	0.489	2375.3
2600	1.838	34.669	2.66	1.652	27.733	36.955	45.764	2.463	217.8	-0.24	0.013	1.03	0.371	2572.0
2800	1.824	34.671	2.69	1.619	27.737	36.961	45.772	2.557	243.7	-0.11	0.006	0.51	0.260	2768.4
3000	1.823	34.672	2.73	1.599	27.740	36.964	45.776	2.652	271.8	-0.09	0.004	0.40	0.231	2964.7
3200	1.828	34.673	2.74	1.584	27.741	36.967	45.780	2.749	302.3	-0.05	0.003	0.24	0.180	3160.8
3400	1.842	34.673	2.76	1.578	27.742	36.968	45.781	2.847	335.3	-0.03	0.001	0.12	0.124	3356.8
3600	1.851	34.673	2.84	1.565	27.743	36.970	45.784	2.946	371.0	-0.06	0.002	0.12	0.000	3552.5
3669	1.850	34.673	2.86	1.558	27.744	36.971	45.785	2.981	383.8	-0.09	0.005	0.12	0.000	3620.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.4	29.352	29.350	21.428	29.640	37.503	34.305	34.311	4.93	0.50	0.21	0.10	0.00	1.548	0.846	10	222222222
23	50.1	21.375	21.365	23.835	32.253	40.309	34.263	34.483	3.65	4.63	1.02	9.80	1.10	1.631	0.863	49	222222222
22	99.4	13.699	13.685	26.138	34.804	43.092	34.850	34.844	0.68	22.06	2.14	31.20	0.00	0.467	0.266	98	222222222
21	124.2	13.141	13.124	26.225	34.913	43.222	34.815	34.874	0.26	23.47	2.27	33.00	0.00	0.326	0.193	123	222222222
20	149.3	12.891	12.871	26.290	34.987	43.305	34.833	34.836	0.38	24.28	2.25	32.80	0.00	0.308	0.181	148	222222222
19	173.1	12.510	12.487	26.354	35.067	43.398	34.818	34.825	0.21	25.89	2.32	33.60	0.00	0.245	0.136	172	222222222
18	199.1	12.132	12.106	26.391	35.119	43.466	34.771	34.808	0.23	26.90	2.36	34.00	0.00	0.209	0.128	197	222222222
17	247.9	11.539	11.508	26.503	35.255	43.624	34.770	34.773	0.63	28.01	2.32	33.40	0.00	0.190	0.109	246	222222222
16	297.6	10.979	10.943	26.585	35.361	43.751	34.742	34.767	0.53	30.02	2.40	34.30	0.00	0.129	0.073	295	222222222
15	395.9	9.920	9.874	26.732	35.553	43.986	34.691	34.693	0.06	40.00	2.70	31.78	0.42	0.020	0.013	393	222222222
14	494.6	8.421	8.369	26.920	35.807	44.302	34.620	34.623	0.06	54.10	2.97	29.94	1.66	0.005	0.005	491	222222222
13	595.7	7.163	7.106	27.087	36.032	44.581	34.597	34.584	0.08	64.08	3.14	37.73	0.27			591	222222255
12	694.8	6.270	6.207	27.182	36.170	44.760	34.564	34.567	0.08	73.14	3.20	43.20	0.00	-0.001	-0.001	689	222222222
11	795.7	5.610	5.541	27.275	36.295	44.915	34.576	34.564	0.21	81.41	3.22	45.30	0.00			789	222222255
10	990.5	4.625	4.546	27.381	36.450	45.117	34.564	34.576	0.58	97.53	3.22	45.60	0.00			982	222222255
9	1240.3	3.774	3.680	27.491	36.605	45.313	34.588	34.587	0.94	116.16	3.18	44.90	0.00			1229	222222255
8	1490.0	3.106	2.998	27.573	36.722	45.464	34.608	34.608	1.38	130.47	3.04	43.30	0.00			1476	222222255
7	1740.1	2.613	2.490	27.633	36.810	45.577	34.628	34.628	1.76	142.66	2.92	42.30	0.00			1723	222222255
6	1990.8	2.247	2.107	27.681	36.878	45.664	34.648		2.07	150.52	2.87	41.20	0.00			1970	252222255
5	2389.0	1.875	1.707	27.727	36.946	45.752	34.666	34.665	2.57	157.17	2.70	39.50	0.00			2362	222222255
4	2787.3	1.823	1.619	27.738	36.961	45.772	34.671	34.673	2.69	157.57	2.68	39.30	0.00			2753	222222255
3	3189.3	1.828	1.585	27.741	36.966	45.779	34.672	34.672	2.74	157.57	2.65	39.00	0.00	-0.002	0.000	3147	222222225
2	3490.4	1.845	1.571	27.742	36.968	45.782	34.672	34.673	2.84	156.16	2.63	39.00	0.00	-0.002	-0.001	3442	222222222
1	3670.7	1.851	1.558	27.743	36.970	45.784	34.673	34.672	2.88	156.46	2.62	38.90	0.00	-0.002	-0.001	3618	222222222

CRUISE: MW 893 STA: 202 DATE (D/M/Y): 6- 5-89 TIME: 1659 LAT: 9 29.57 N LONG: 94 49.71 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24053E-04 1/S SOUND SPEED= 1497.5 M/S Depth= 3723 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	29.382	34.281	4.33	29.382	21.399	29.611	37.473	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	29.382	34.281	4.33	29.382	21.399	29.611	37.473	0.006	0.0	-0.49	0.000	0.00	0.000	1.0
20	29.093	34.272	5.05	29.088	21.491	29.709	37.578	0.127	0.1	-149.39	9.416	1328.91	13.320	20.0
30	26.758	34.311	5.37	26.751	22.280	30.553	38.473	0.186	0.3	-232.71	-15.414	1455.62	13.940	30.0
40	25.128	34.273	4.01	25.119	22.758	31.072	39.031	0.239	0.5	-168.24	2.617	1242.96	12.882	40.0
50	23.110	34.354	2.75	23.100	23.417	31.784	39.793	0.287	0.7	-178.74	19.946	1566.05	14.459	50.0
100	13.895	34.849	0.24	13.881	26.096	34.755	43.036	0.423	1.7	-41.60	0.544	219.74	5.416	99.8
125	13.371	34.843	0.19	13.353	26.201	34.879	43.179	0.470	2.2	-13.42	0.040	65.70	2.962	124.7
150	12.955	34.837	0.19	12.935	26.280	34.975	43.290	0.516	2.8	-18.30	-0.787	74.52	3.154	149.6
200	12.175	34.800	0.13	12.149	26.406	35.132	43.476	0.602	4.4	-16.04	-0.780	59.71	2.823	199.4
250	11.451	34.765	0.08	11.419	26.517	35.272	43.644	0.682	6.2	-14.95	-0.719	53.68	2.677	249.1
300	10.805	34.733	0.07	10.768	26.610	35.392	43.790	0.759	8.4	-11.24	-0.516	39.36	2.292	298.9
350	10.213	34.704	0.07	10.171	26.692	35.500	43.921	0.832	10.8	-17.96	-0.933	58.39	2.792	348.6
400	9.317	34.658	0.06	9.272	26.807	35.653	44.111	0.900	13.4	-18.60	-0.982	56.81	2.754	398.3
450	8.490	34.626	0.06	8.442	26.913	35.797	44.289	0.963	16.1	-12.23	-0.407	39.73	2.303	448.0
500	7.865	34.601	0.05	7.814	26.988	35.901	44.420	1.023	19.0	-10.32	-0.296	33.05	2.100	497.6
600	6.979	34.586	0.04	6.922	27.104	36.057	44.615	1.132	25.2	-7.96	-0.124	26.01	1.863	596.9
700	6.177	34.570	0.05	6.114	27.198	36.190	44.785	1.233	31.8	-6.82	-0.102	21.52	1.695	696.1
800	5.592	34.562	0.07	5.522	27.266	36.287	44.908	1.326	39.0	-5.86	-0.047	18.53	1.573	795.3
900	5.044	34.561	0.16	4.970	27.331	36.380	45.026	1.414	46.5	-5.80	0.041	19.47	1.612	894.4
1000	4.528	34.567	0.38	4.448	27.394	36.469	45.140	1.495	54.4	-3.71	0.053	12.79	1.307	993.5
1200	3.871	34.582	0.84	3.779	27.476	36.585	45.288	1.645	71.2	-3.35	0.093	12.11	1.272	1191.5
1400	3.296	34.601	1.17	3.193	27.548	36.688	45.420	1.780	89.1	-2.45	0.083	9.05	1.099	1389.3
1600	2.895	34.616	1.49	2.780	27.598	36.759	45.512	1.903	108.0	-2.21	0.088	8.41	1.060	1586.8
1800	2.522	34.632	1.83	2.395	27.645	36.826	45.598	2.017	127.7	-1.56	0.067	6.06	0.900	1784.2
2000	2.237	34.646	2.08	2.097	27.680	36.878	45.664	2.123	148.2	-1.64	0.077	6.55	0.935	1981.4
2200	1.966	34.660	2.32	1.813	27.714	36.927	45.728	2.222	169.3	-1.02	0.049	4.19	0.748	2178.4
2400	1.869	34.665	2.52	1.700	27.727	36.946	45.753	2.316	191.4	-0.30	0.016	1.26	0.410	2375.3
2600	1.833	34.668	2.64	1.647	27.733	36.955	45.765	2.410	215.3	-0.23	0.013	1.00	0.366	2571.9
2800	1.826	34.670	2.68	1.621	27.736	36.960	45.771	2.504	241.2	-0.09	0.005	0.41	0.234	2768.4
3000	1.825	34.671	2.72	1.601	27.739	36.963	45.775	2.599	269.5	-0.07	0.004	0.32	0.208	2964.7
3200	1.834	34.672	2.74	1.590	27.740	36.965	45.778	2.696	300.1	-0.05	0.003	0.25	0.181	3160.8
3400	1.846	34.672	2.78	1.581	27.741	36.967	45.780	2.794	333.2	-0.04	0.001	0.17	0.153	3356.7
3600	1.861	34.672	2.81	1.575	27.742	36.968	45.781	2.894	368.9	-0.04	0.002	0.19	0.160	3552.5
3757	1.859	34.673	2.86	1.557	27.743	36.970	45.785	2.974	398.8	-0.17	0.004	0.19	0.000	3706.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.3	29.157	29.155	21.465	29.681	37.549	34.267	34.272	4.78	0.60	0.21	0.10	0.00	1.599	0.901	10	222222222
23	48.6	17.782	17.773	25.276	33.797	41.950	34.931	34.594	2.07	9.57	1.73	21.62	0.08	1.335	0.725	48	222222222
22	74.4	14.686	14.675	25.984	34.612	42.866	34.922	34.836	0.04	21.06	2.34	30.36	0.44	0.506	0.276	73	222222222
21	99.6	13.677	13.663	26.139	34.806	43.095	34.845	34.852	0.14	22.77	2.30	32.69	0.01	0.391	0.223	99	222222222
20	124.0	13.225	13.208	26.239	34.922	43.228	34.854	34.852	0.09	24.18	2.34	32.90	0.00	0.319	0.190	123	222222222
19	149.3	12.733	12.713	26.314	35.017	43.341	34.823	34.832	0.12	25.19	2.37	33.30	0.00	0.266	0.157	148	222222222
18	173.6	12.410	12.387	26.374	35.090	43.425	34.818	34.820	0.12	26.50	2.40	33.58	0.02	0.220	0.142	172	222222222
17	198.3	12.074	12.048	26.429	35.158	43.507	34.805	34.799	0.09	27.81	2.44	33.89	0.01	0.181	0.116	197	222222222
16	246.9	11.528	11.497	26.508	35.261	43.630	34.773	34.777	0.05	30.43	2.51	33.58	0.02	0.126		245	222222225
15	297.6	10.904	10.868	26.600	35.378	43.771	34.743	34.741	0.04	34.05	2.61	30.89	1.01	0.068		295	222222225
14	394.9	9.615	9.570	26.782	35.615	44.061	34.689	34.679	0.04	43.02	2.82	28.82	1.68	0.018		392	222222225
13	494.8	7.972	7.922	26.978	35.886	44.400	34.609	34.608	0.05	57.73	3.11	32.45	1.05	0.009	0.012	491	222222222
12	596.1	6.994	6.936	27.092	36.045	44.603	34.574	34.590	0.04	66.19	3.21	39.51	-0.01	0.005	0.013	591	222222222
11	696.1	6.077	6.015	27.222	36.219	44.818	34.584	34.569	0.09	76.07	3.31	43.61	-0.01			691	222222255
10	793.9	5.509	5.441	27.277	36.302	44.927	34.564	34.562	0.12	84.73	3.46	45.31	-0.01			787	222222255
9	994.0	4.530	4.451	27.395	36.469	45.141	34.568	34.568	0.41		3.36	46.00	0.00			986	222522255
8	1292.1	3.602	3.505	27.511	36.634	45.351	34.591	34.590	1.00	119.79	3.19	44.40	0.00			1280	222222255
7	1589.5	2.909	2.795	27.598	36.758	45.509	34.617	34.615	1.48	135.21	3.07	43.00	0.00			1574	222222255
6	1987.5	2.287	2.148	27.675	36.870	45.654	34.645	34.643	2.04	148.40	2.90	41.00	0.00			1966	222222255
5	2389.9	1.870	1.702	27.727	36.946	45.753	34.666	34.666	2.49	157.47	2.77	39.50	0.00			2362	222222255
4	2788.1	1.824	1.620	27.736	36.960	45.771	34.670	34.671	2.67	157.17	2.71	39.00	0.00			2754	222222255
3	3190.6	1.833	1.590	27.741	36.966	45.778	34.672	34.671	2.73	157.07	2.71	38.80	0.00	0.004	0.003	3148	222222222
2	3592.3	1.860	1.575	27.741	36.967	45.780	34.672	34.672	2.79	156.26	2.71	38.60	0.00			3541	222222255
1	3759.3	1.860	1.557	27.742	36.969	45.784	34.672	34.674	2.87	155.36	2.69	38.60	0.00	0.000	-0.001	3705	222222252

CRUISE: MW 893 STA: 203 DATE (D/M/Y): 7- 5-89 TIME: 0029 LAT: 9 30.07 N LONG: 93 59.98 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24074E-04 1/S SOUND SPEED= 1497.6 M/S Depth= 3774 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.683	34.036	4.49	28.683	21.448	29.678	37.558	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.683	34.036	4.49	28.682	21.448	29.678	37.558	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	26.601	34.423	5.32	26.596	22.414	30.689	38.612	0.121	0.1	-200.95	5.554	1587.93	14.554	20.0
30	23.865	34.514	3.49	23.859	23.316	31.661	39.649	0.171	0.2	-379.55	7.358	2732.50	19.091	30.0
40	19.726	34.670	1.85	19.719	24.585	33.048	41.146	0.211	0.4	-320.66	11.103	2162.49	16.984	40.0
50	16.577	34.785	0.07	16.569	25.451	34.015	42.208	0.240	0.5	-165.92	6.617	1039.99	11.778	50.0
100	13.671	34.895	0.38	13.657	26.179	34.845	43.134	0.342	1.3	-12.32	-0.001	60.61	2.843	99.8
125	13.367	34.890	0.43	13.350	26.238	34.916	43.216	0.388	1.8	-20.61	-0.634	87.16	3.410	124.7
150	12.712	34.827	0.45	12.692	26.321	35.025	43.350	0.432	2.4	-18.66	-1.917	53.79	2.679	149.5
200	12.131	34.797	0.45	12.105	26.412	35.140	43.486	0.517	4.0	-13.25	-0.633	49.52	2.570	199.3
250	11.526	34.771	0.50	11.494	26.507	35.259	43.628	0.598	5.8	-11.05	-0.389	42.50	2.381	249.1
300	10.982	34.741	0.31	10.945	26.584	35.359	43.750	0.676	8.0	-13.77	-0.614	49.07	2.558	298.8
350	10.318	34.711	0.18	10.276	26.679	35.482	43.899	0.749	10.4	-12.10	-0.689	38.75	2.273	348.5
400	9.623	34.676	0.10	9.578	26.770	35.604	44.049	0.819	13.1	-13.33	-0.507	45.44	2.462	398.2
450	8.868	34.639	0.08	8.819	26.864	35.731	44.208	0.885	15.9	-18.74	-0.745	60.08	2.831	447.9
500	8.028	34.612	0.08	7.977	26.973	35.877	44.389	0.946	18.9	-15.54	-0.408	50.97	2.607	497.5
600	6.972	34.586	0.07	6.915	27.105	36.059	44.617	1.055	25.0	-9.51	-0.211	29.78	1.993	596.8
700	6.049	34.568	0.09	5.986	27.213	36.212	44.812	1.155	31.6	-5.97	-0.062	19.09	1.596	696.1
800	5.458	34.562	0.16	5.390	27.283	36.310	44.937	1.247	38.6	-6.11	-0.026	19.62	1.618	795.2
900	4.947	34.564	0.26	4.872	27.345	36.398	45.049	1.332	46.0	-5.21	0.038	17.41	1.524	894.3
1000	4.507	34.567	0.44	4.427	27.397	36.472	45.145	1.412	53.8	-3.90	0.051	13.15	1.324	993.4
1200	3.737	34.586	0.92	3.646	27.493	36.608	45.318	1.558	70.1	-2.97	0.087	10.68	1.194	1191.4
1400	3.231	34.604	1.21	3.129	27.557	36.700	45.435	1.690	87.6	-2.26	0.073	8.27	1.050	1389.2
1600	2.844	34.617	1.62	2.730	27.604	36.768	45.522	1.812	106.2	-1.77	0.074	6.76	0.950	1586.7
1800	2.476	34.634	1.85	2.349	27.650	36.834	45.608	1.925	125.8	-1.94	0.085	7.57	1.005	1784.1
2000	2.184	34.648	2.09	2.044	27.687	36.887	45.676	2.029	146.0	-1.41	0.068	5.67	0.869	1981.3
2200	1.990	34.658	2.29	1.837	27.711	36.922	45.722	2.127	166.9	-0.74	0.036	3.03	0.636	2178.3
2400	1.875	34.665	2.51	1.706	27.726	36.945	45.752	2.222	189.2	-0.53	0.027	2.25	0.547	2375.2
2600	1.829	34.669	2.63	1.643	27.734	36.956	45.766	2.315	213.0	-0.19	0.011	0.84	0.334	2571.8
2800	1.819	34.670	2.67	1.614	27.737	36.961	45.772	2.409	238.9	-0.09	0.005	0.39	0.227	2768.3
3000	1.824	34.671	2.69	1.600	27.739	36.964	45.776	2.504	267.1	-0.06	0.003	0.29	0.195	2964.6
3200	1.835	34.672	2.72	1.591	27.740	36.965	45.778	2.601	297.6	-0.04	0.002	0.19	0.158	3160.7
3400	1.846	34.672	2.75	1.582	27.741	36.967	45.780	2.700	330.7	-0.03	0.001	0.14	0.138	3356.6
3600	1.862	34.672	2.78	1.576	27.742	36.968	45.781	2.800	366.5	-0.03	0.001	0.14	0.138	3552.4
3800	1.881	34.673	2.75	1.573	27.742	36.968	45.782	2.902	404.9	-0.01	0.001	0.14	0.000	3748.0
3823	1.883	34.673	2.75	1.573	27.742	36.968	45.782	2.913	409.6	-0.01	0.001	0.14	0.000	3770.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.0	27.617	27.614	22.108	30.359	38.258	34.450	34.463	5.40	1.31	0.31	0.16	0.04	1.668	0.868	9	222222222
23	48.9	14.436	14.429	26.008	34.646	42.908	34.885	34.843	0.17	19.55	2.35	31.41	0.29	0.556	0.297	48	222222222
22	99.6	13.415	13.401	26.234	34.910	43.208	34.899	34.897	0.43	21.56	2.24	32.49	0.01	0.360	0.210	99	222222222
21	123.6	12.752	12.735	26.326	35.028	43.350	34.844	34.835	0.39	24.28	2.33	32.99	0.01	0.285	0.176	122	222222222
20	148.9	12.405	12.385	26.379	35.095	43.431	34.825	34.817	0.43	25.19	2.34	33.29	0.01	0.259	0.158	148	222222222
19	174.2	12.200	12.177	26.412	35.137	43.480	34.815	34.806	0.36	26.09	2.37	33.70	0.00	0.232	0.138	173	222222222
18	198.0	11.837	11.812	26.469	35.208	43.565	34.799	34.786	0.31	27.40	2.43	34.18	0.02	0.189	0.119	196	222222222
17	247.4	11.336	11.305	26.550	35.309	43.686	34.781	34.764	0.32	29.12	2.47	34.68	0.02	0.147	0.097	245	222222222
16	297.2	10.756	10.720	26.618	35.402	43.801	34.732	34.737	0.19	31.84	2.59	35.10	0.00	0.082	0.052	295	222222222
15	397.0	9.634	9.588	26.766	35.599	44.044	34.673	34.673	0.07	41.01	2.86	33.69	0.01	0.016	0.015	394	222222222
14	495.3	8.054	8.003	26.971	35.874	44.385	34.614	34.615	0.08	56.82	3.19	37.91	1.19	0.013		491	222222225
13	594.3	6.897	6.840	27.111	36.068	44.630	34.581	34.585	0.06	66.50	3.29	40.20	0.00	0.006	0.013	590	222222222
12	693.2	6.091	6.029	27.206	36.203	44.801	34.566	34.568	0.07	75.76	3.36	43.70	0.00			688	222222255
11	793.9	5.524	5.456	27.271	36.295	44.919	34.557	34.564	0.15	82.62	3.41	45.70	0.00			787	222222255
10	992.3	4.561	4.482	27.390	36.463	45.132	34.566	34.565	0.47	99.24	3.44	46.50	0.00			984	222222255
9	1289.7	3.532	3.436	27.521	36.647	45.367	34.595	34.595	1.03	120.30	3.27	44.90	0.00			1278	222222255
8	1591.9	2.883	2.769	27.600	36.761	45.514	34.616	34.618	1.62	132.99	3.10	43.00	0.00			1576	222222255
7	1889.6	2.352	2.220	27.666	36.857	45.637	34.641	34.639	1.97	147.20	2.98	41.90	0.00			1870	222222255
6	2180.0	1.999	1.847	27.710	36.921	45.720	34.658	34.656	2.30	154.45	2.88	40.50	0.00			2156	222222255
5	2488.6	1.843	1.666	27.731	36.952	45.761	34.667	34.668	2.60	155.86	2.80	39.71	-0.01			2459	222222255
4	2790.4	1.817	1.613	27.738	36.962	45.773	34.671	34.673	2.69	156.97	2.84	39.51	-0.01	0.001	-0.004	2756	222222222
3	3090.6	1.828	1.595	27.739	36.964	45.777	34.671	34.670	2.71	157.47	2.79	39.31	-0.01			3050	222222255
2	3493.6	1.853	1.578	27.742	36.968	45.781	34.673	34.670	2.75	153.04	2.77	39.31	-0.01	0.002	0.001	3445	222222222
1	3825.8	1.884	1.573	27.742	36.968	45.782	34.673	34.672	2.77	155.56	2.77	39.11	-0.01	-0.001	-0.001	3770	222222222

CRUISE: MW 893 STA: 204 DATE (D/M/Y): 7- 5-89 TIME: 0740 LAT: 9 29.96 N LONG: 93 9.98 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24069E-04 1/S SOUND SPEED= 1498.2 M/S Depth= 3850 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.387	33.703	4.36	28.387	21.295	29.536	37.426	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.387	33.703	4.36	28.386	21.295	29.536	37.426	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	21.203	34.474	3.06	21.200	24.041	32.461	40.520	0.110	0.1	-323.01	32.280	2660.61	18.840	20.0
30	18.005	34.688	1.99	17.999	25.034	33.551	41.700	0.144	0.2	-307.09	22.148	2180.00	17.054	30.0
40	16.210	34.772	1.40	16.203	25.526	34.103	42.307	0.170	0.3	-120.51	-4.998	561.59	8.656	39.9
50	14.745	34.777	0.70	14.738	25.858	34.486	42.739	0.194	0.4	-93.38	1.461	506.40	8.220	49.9
100	13.385	34.877	1.32	13.371	26:223	34.900	43.200	0.290	1.1	-7.66	0.575	47.58	2.519	99.7
125	13.092	34.856	1.32	13.075	26.267	34.956	43.266	0.335	1.6	-15.60	-0.980	55.19	2.713	124.6
150	12.786	34.855	0.46	12.766	26.328	35.029	43.350	0.378	2.2	-9.03	-0.270	37.31	2.231	149.5
200	12.072	34.800	0.86	12.046	26.426	35.156	43.504	0.463	3.7	-7.50	-0.071	33.26	2.107	199.2
250	11.548	34.778	0.38	11.516	26.508	35.260	43.628	0.544	5.6	-11.36	-0.539	41.26	2.346	249.0
300	11.045	34.753	0.22	11.008	26.582	35.355	43.743	0.621	7.8	-11.90	-0.656	40.35	2.320	298.7
350	10.301	34.715	0.13	10.260	26.685	35.489	43.907	0.695	10.2	-16.18	-0.879	52.69	2.651	348.4
400	9.583	34.680	0.14	9.538	26.781	35.615	44.062	0.765	12.9	-15.58	-0.412	56.43	2.744	398.1
450	8.866	34.648	0.12	8.817	26.872	35.738	44.215	0.830	15.7	-13.46	-0.573	42.54	2.382	447.8
500	8.071	34.615	0.11	8.019	26.969	35.872	44.382	0.891	18.7	-15.57	-0.481	50.06	2.584	497.5
600	6.953	34.589	0.10	6.896	27.110	36.065	44.624	1.001	24.8	-9.35	-0.154	30.54	2.019	596.8
700	6.201	34.577	0.22	6.138	27.201	36.192	44.785	1.101	31.5	-5.97	-0.116	18.40	1.567	696.0
800	5.613	34.564	0.28	5.544	27.265	36.285	44.905	1.195	38.6	-6.02	-0.063	18.85	1.586	795.2
900	5.100	34.564	0.49	5.025	27.327	36.372	45.017	1.282	46.2	-4.98	0.011	16.35	1.477	894.3
1000	4.649	34.569	0.67	4.568	27.383	36.451	45.117	1.365	54.2	-3.86	0.099	14.17	1.375	993.4
1200	3.936	34.581	0.82	3.844	27.469	36.574	45.274	1.516	71.1	-3.09	0.089	11.23	1.224	1191.3
1400	3.375	34.599	1.12	3.271	27.539	36.675	45.403	1.652	89.2	-2.59	0.078	9.43	1.122	1389.1
1600	2.902	34.615	1.59	2.787	27.597	36.758	45.510	1.777	108.2	-2.32	0.090	8.81	1.084	1586.7
1800	2.544	34.631	1.82	2.416	27.642	36.823	45.593	1.891	127.9	-1.48	0.071	5.89	0.887	1784.1
2000	2.298	34.644	2.09	2.156	27.674	36.868	45.652	1.998	148.7	-1.18	0.056	4.74	0.795	1981.3
2200	2.081	34.655	2.26	1.926	27.701	36.908	45.703	2.099	170.4	-1.20	0.056	4.89	0.808	2178.3
2400	1.888	34.665	2.46	1.719	27.725	36.943	45.749	2.195	192.9	-0.56	0.027	2.37	0.562	2375.1
2600	1.837	34.668	2.59	1.650	27.733	36.955	45.764	2.289	216.9	-0.27	0.015	1.20	0.401	2571.8
2800	1.822	34.670	2.67	1.617	27.737	36.961	45.772	2.383	242.8	-0.11	0.007	0.53	0.265	2768.2
3000	1.826	34.671	2.69	1.602	27.739	36.963	45.775	2.479	271.0	-0.06	0.003	0.27	0.190	2964.5
3200	1.835	34.672	2.73	1.592	27.740	36.965	45.778	2.575	301.6	-0.04	0.002	0.19	0.157	3160.6
3400	1.848	34.672	2.77	1.583	27.741	36.967	45.779	2.674	334.7	-0.04	0.002	0.18	0.156	3356.6
3600	1.863	34.673	2.77	1.577	27.742	36.968	45.781	2.774	370.5	-0.03	0.001	0.15	0.140	3552.3
3800	1.881	34.673	2.79	1.573	27.742	36.968	45.782	2.876	409.0	-0.02	0.001	0.15	0.000	3747.9
3893	1.890	34.673	2.76	1.572	27.742	36.969	45.782	2.924	427.8	-0.01	0.002	0.15	0.000	3838.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	0.7	28.367	28.367	21.296	29.537	37.428	33.695	33.697	4.74	1.71	0.32	0.69	0.01	1.511	0.791	0	222222222
23	49.6	14.225	14.218	25.975	34.622	42.893	34.785	34.787	0.79	21.56	2.13	29.91	0.19	0.528	0.273	49	222222222
22	74.6	13.433	13.422	26.194	34.870	43.167	34.853	34.841	1.33	21.56	1.98	28.27	0.03	0.516	0.263	74	222222222
21	95.4	13.287	13.274	26.244	34.925	43.228	34.878	34.881	1.18	21.76	1.99	29.01	-0.01	0.457	0.246	94	222222222
20	116.1	13.014	12.998	26.288	34.980	43.292	34.863	34.859	1.18	22.47	2.03	29.20	0.00	0.424	0.232	115	222222222
19	148.5	12.533	12.513	26.388	35.098	43.429	34.868	34.845	0.43	25.09	2.28	33.10	0.00	0.255	0.158	147	222222222
18	174.1	12.113	12.090	26.413	35.141	43.488	34.794	34.793	1.13	25.49	2.12	30.60	0.00	0.324	0.183	173	222222222
17	197.1	12.057	12.031	26.435	35.165	43.514	34.808	34.807	0.45	27.20	2.34	33.40	0.00	0.221	0.121	195	222222222
16	246.3	11.507	11.476	26.510	35.263	43.633	34.771	34.780	0.34	29.02	2.42	34.50	0.00	0.164		244	222222225
15	295.0	11.106	11.070	26.579	35.349	43.734	34.764	34.761	0.14	31.84	2.54	35.40	0.00	0.107	0.068	293	222222222
14	395.0	9.948	9.902	26.733	35.552	43.984	34.698	34.697	0.09	39.70	2.78	33.98	0.02	0.029		392	222222225
13	493.0	8.172	8.121	26.951	35.849	44.355	34.611	34.615	0.05	56.42	3.11	33.22	0.78	0.002	0.009	489	222222222
12	619.5	6.813	6.754	27.127	36.089	44.654	34.587	34.588	0.06	67.60	3.25	41.90	0.00	0.003	0.006	615	222222222
11	793.6	5.667	5.598	27.268	36.285	44.903	34.576	34.567	0.27	80.60	3.31	45.30	0.00			787	222222255
10	992.3	4.682	4.602	27.377	36.443	45.108	34.566	34.565	0.63	97.22	3.33	45.50	0.00			984	222222255
9	1190.9	3.958	3.866	27.467	36.571	45.271	34.582	34.578	0.78	112.84	3.31	45.40	0.00			1180	222222255
8	1390.7	3.389	3.286	27.538	36.673	45.400	34.599	34.595	1.19	125.64	3.22	44.40	0.00			1378	222222255
7	1788.3	2.561	2.435	27.641	36.820	45.590	34.632	34.630	1.80	144.68	3.01	42.20	0.00			1770	222222255
6	2187.8	2.084	1.930	27.701	36.908	45.703	34.655	34.653	2.24	155.46	2.88	40.59	0.01			2164	222222255
5	2588.2	1.836	1.650	27.733	36.955	45.764	34.668	34.667	2.58	159.69	2.79	39.49	0.01			2557	222222255
4	2989.0	1.825	1.602	27.739	36.964	45.776	34.672	34.671	2.69	159.89	2.79	39.29	0.01	0.000	-0.004	2951	222222252
3	2986.8	1.825	1.602	27.739	36.964	45.775	34.672	34.669	2.67	160.19	2.78	39.29	0.01	0.000	-0.005	2949	222222252
2	3385.1	1.847	1.584	27.741	36.967	45.779	34.672	34.670	2.74	158.58	2.76	39.09	0.01			3339	222222255
1	3896.0	1.891	1.572	27.742	36.968	45.781	34.672	34.670	2.76	158.08	2.76	38.99	0.01	0.001	-0.001	3838	222222222

CRUISE: MW 893 STA: 205 DATE (D/M/Y): 7- 5-89 TIME: 1504 LAT: 9 29.62 N LONG: 92 19.92 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24055E-04 1/S SOUND SPEED= 1497.5 M/S Depth= 3663 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.691	34.499	4.54	28.691	21.793	30.018	37.893	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.691	34.499	4.54	28.691	21.793	30.018	37.893	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	26.290	34.410	4.86	26.285	22.502	30.785	38.715	0.117	0.1	-176.94	-2.299	1260.35	12.971	20.0
30	24.040	34.442	3.21	24.033	23.211	31.552	39.536	0.168	0.2	-449.84	12.859	3298.36	20.983	30.0
40	19.002	34.623	2.43	18.995	24.736	33.222	41.341	0.207	0.4	-233.86	10.562	1599.13	14.611	40.0
50	17.722	34.707	2.14	17.713	25.119	33.645	41.803	0.237	0.5	-140.32	11.730	1012.85	11.628	50.0
100	14.121	34.924	0.88	14.106	26.106	34.756	43.029	0.347	1.3	-21.37	0.008	107.42	3.787	99.8
125	13.692	34.913	0.68	13.674	26.188	34.854	43.142	0.394	1.9	-14.38	-0.919	54.86	2.706	124.7
150	13.364	34.893	0.83	13.343	26.241	34.920	43.220	0.440	2.5	-12.73	-0.604	50.04	2.585	149.5
200	12.785	34.852	0.60	12.758	26.327	35.028	43.350	0.528	4.1	-15.21	-1.022	53.45	2.671	199.3
250	11.969	34.804	0.28	11.937	26.450	35.184	43.536	0.613	6.0	-14.44	-0.805	51.61	2.625	249.1
300	11.341	34.769	0.10	11.303	26.541	35.301	43.677	0.693	8.3	-12.61	-0.704	43.39	2.407	298.8
350	10.586	34.731	0.11	10.543	26.648	35.440	43.846	0.768	10.8	-18.82	-0.867	65.23	2.951	348.5
400	9.866	34.702	0.06	9.820	26.750	35.573	44.008	0.839	13.5	-13.58	-0.687	43.78	2.418	398.2
450	9.067	34.654	0.05	9.017	26.845	35.703	44.171	0.906	16.4	-16.17	-0.787	50.08	2.586	447.9
500	8.204	34.623	0.05	8.152	26.955	35.852	44.356	0.968	19.4	-16.64	-0.660	51.28	2.616	497.6
600	6.985	34.581	0.03	6.928	27.099	36.053	44.611	1.079	25.6	-8.81	-0.195	27.92	1.931	596.9
700	6.203	34.569	0.09	6.140	27.195	36.186	44.779	1.180	32.3	-7.02	-0.076	22.60	1.737	696.1
800	5.635	34.567	0.27	5.565	27.265	36.284	44.903	1.273	39.4	-4.56	-0.009	15.05	1.418	795.3
900	5.147	34.563	0.40	5.072	27.321	36.364	45.006	1.362	47.1	-4.55	0.003	14.99	1.415	894.4
1000	4.775	34.565	0.52	4.693	27.365	36.427	45.087	1.445	55.2	-3.75	0.049	12.95	1.315	993.4
1200	4.099	34.577	0.68	4.005	27.449	36.546	45.239	1.600	72.5	-2.99	0.072	10.73	1.197	1191.4
1400	3.422	34.596	0.89	3.318	27.533	36.666	45.392	1.741	91.1	-3.22	0.110	12.09	1.270	1389.2
1600	2.962	34.614	1.32	2.846	27.591	36.749	45.498	1.866	110.4	-2.17	0.083	8.24	1.049	1586.8
1800	2.593	34.629	1.78	2.465	27.636	36.814	45.582	1.982	130.5	-1.89	0.086	7.46	0.998	1784.2
2000	2.270	34.645	2.10	2.129	27.677	36.873	45.658	2.090	151.3	-1.25	0.058	5.03	0.819	1981.4
2200	2.047	34.657	2.27	1.892	27.705	36.914	45.711	2.191	172.9	-1.19	0.055	4.84	0.804	2178.4
2400	1.899	34.665	2.44	1.730	27.724	36.941	45.747	2.286	195.3	-0.58	0.028	2.43	0.570	2375.2
2600	1.837	34.669	2.56	1.650	27.733	36.955	45.764	2.380	219.3	-0.26	0.015	1.17	0.395	2571.9
2800	1.821	34.671	2.65	1.616	27.737	36.961	45.772	2.474	245.2	-0.10	0.006	0.47	0.251	2768.3
3000	1.826	34.672	2.67	1.602	27.739	36.964	45.776	2.570	273.3	-0.04	0.002	0.19	0.160	2964.6
3200	1.840	34.672	2.68	1.596	27.740	36.965	45.777	2.666	304.0	-0.04	0.002	0.17	0.151	3160.7
3400	1.851	34.672	2.72	1.586	27.741	36.966	45.779	2.765	337.1	-0.06	0.001	0.24	0.180	3356.7
3600	1.863	34.673	2.77	1.578	27.742	36.968	45.781	2.865	372.9	-0.03	0.001	0.14	0.137	3552.4
3715	1.874	34.672	2.74	1.575	27.742	36.968	45.781	2.923	394.7	-0.02	0.002	0.14	0.000	3664.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.1	28.182	28.180	21.942	30.179	38.065	34.473	34.488	5.06	1.11	0.26	0.19	0.01	1.658	0.863	9	222222222
23	49.6	16.003	15.995	25.703	34.284	42.494	34.939	34.863	1.23	15.31	1.94	26.40	0.60	0.765	0.400	49	222222222
22	73.4	14.447	14.436	26.022	34.660	42.922	34.906	34.918	0.35	19.65	2.17	32.02	0.08	0.483	0.269	72	222222222
21	97.3	13.907	13.893	26.153	34.811	43.091	34.926	34.920	0.77	19.65	2.06	30.38	0.02	0.477	0.256	96	222222222
20	122.9	13.527	13.510	26.212	34.884	43.178	34.899	34.900	0.90	21.06	2.06	30.18	0.02	0.425	0.233	122	222222222
19	147.8	13.300	13.279	26.257	34.937	43.240	34.896	34.893	0.78	21.66	2.11	30.88	0.02	0.372	0.205	146	222222222
18	172.3	13.033	13.009	26.288	34.980	43.292	34.867	34.872	0.36	23.78	2.25	32.88	0.02	0.290		171	222222225
17	197.5	12.753	12.726	26.331	35.033	43.356	34.848	34.846	0.71	24.08	2.17	31.78	0.02	0.312	0.172	196	222222222
16	248.2	12.019	11.987	26.450	35.182	43.532	34.817	34.814	0.37	27.30	2.34	33.89	0.01	0.208	0.118	246	222222222
15	297.2	11.412	11.375	26.532	35.289	43.663	34.775	34.771	0.17	30.12	2.47	35.08	0.02	0.134		295	222222225
14	396.6	9.874	9.828	26.752	35.574	44.009	34.706	34.702	0.08	41.41	2.79	34.13	0.07	0.037		393	222222225
13	497.0	8.155	8.104	26.962	35.860	44.367	34.622	34.622	0.04	55.31	3.08	34.32	0.48	0.006	0.014	493	222222222
12	595.6	7.075	7.018	27.091	36.040	44.594	34.586	34.585	0.07	65.08	3.22	40.10	0.00	0.006		591	222222225
11	693.7	6.179	6.116	27.191	36.184	44.778	34.562	34.571	0.14	73.65	3.27	44.40	0.00			688	222222255
10	843.7	5.356	5.284	27.296	36.329	44.961	34.564	34.564	0.38	84.93	3.30	45.70	0.00			837	222222255
9	993.3	4.763	4.682	27.367	36.430	45.090	34.565	34.564	0.56	95.51	3.30	45.70	0.00			985	222222255
8	1390.3	3.427	3.323	27.535	36.667	45.392	34.599	34.595	0.94	125.94	3.26	45.30	0.00			1377	222222255
7	1791.2	2.616	2.489	27.633	36.810	45.577	34.628	34.626	1.77	142.46	3.00	42.40	0.00			1773	222222255
6	2190.0	2.083	1.929	27.700	36.907	45.702	34.654	34.653	2.23	155.05	2.85	40.70	0.00			2166	222222255
5	2588.3	1.843	1.657	27.732	36.954	45.763	34.668		2.55	160.49	2.78	39.81	-0.01			2557	252222255
3	2990.1	1.826	1.603	27.739	36.963	45.775	34.671	34.670	2.64	160.49	2.77	39.41	-0.01	0.000	-0.005	2952	222222252
2	3490.2	1.855	1.581	27.741	36.967	45.780	34.673	34.671	2.72	158.18	2.74	39.31	-0.01	0.004		3442	222222225
1	3717.6	1.874	1.575	27.742	36.968	45.781	34.672	34.671	2.73	159.08	2.74	39.21	-0.01	0.001	-0.001	3664	222222222

CRUISE: MW 893 STA: 206 DATE (D/M/Y): 7- 5-89 TIME: 2325 LAT: 9 30.06 N LONG: 91 27.67 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24073E-04 1/S SOUND SPEED= 1497.4 M/S Depth= 3683 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.604	34.471	4.81	28.604	21.801	30.028	37.905	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.604	34.471	4.81	28.604	21.801	30.028	37.905	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	27.170	34.398	5.13	27.165	22.214	30.476	38.386	0.119	0.1	-268.29	-7.585	1880.46	15.838	20.0
30	24.695	34.426	3.66	24.689	23.004	31.327	39.296	0.171	0.3	-248.11	9.413	1914.72	15.981	30.0
40	21.679	34.556	2.33	21.671	23.974	32.379	40.424	0.216	0.4	-390.35	25.091	2965.30	19.888	40.0
50	17.640	34.764	1.38	17.632	25.182	33.710	41.870	0.249	0.6	-268.02	6.927	1661.50	14.887	50.0
100	13.647	34.882	0.68	13.632	26.173	34.841	43.131	0.355	1.4	-20.35	0.196	104.19	3.728	99.8
125	13.167	34.846	0.97	13.150	26.244	34.930	43.238	0.401	1.9	-28.33	-4.550	54.87	2.705	124.7
150	12.787	34.816	1.17	12.767	26.297	34.999	43.320	0.446	2.5	-13.68	0.053	65.94	2.966	149.6
200	12.358	34.813	0.56	12.331	26.381	35.099	43.437	0.532	4.0	-9.30	-0.602	32.33	2.077	199.3
250	11.757	34.781	0.24	11.724	26.471	35.214	43.575	0.614	5.9	-13.66	-0.741	48.50	2.544	249.1
300	11.056	34.747	0.17	11.019	26.576	35.348	43.735	0.693	8.1	-12.47	-0.634	43.24	2.402	298.8
350	10.376	34.712	0.12	10.334	26.670	35.471	43.885	0.767	10.6	-13.89	-0.727	45.93	2.475	348.5
400	9.800	34.681	0.11	9.754	26.745	35.570	44.008	0.838	13.3	-14.10	-0.635	46.63	2.494	398.2
450	8.833	34.641	0.10	8.784	26.872	35.740	44.218	0.904	16.1	-17.91	-0.775	56.31	2.741	447.9
500	7.940	34.606	0.09	7.889	26.981	35.890	44.406	0.964	19.1	-15.98	-0.575	49.36	2.566	497.6
600	6.834	34.581	0.07	6.777	27.120	36.080	44.645	1.073	25.2	-7.47	-0.129	23.89	1.785	596.8
700	6.172	34.573	0.13	6.109	27.202	36.194	44.789	1.173	31.8	-6.95	-0.029	23.05	1.754	696.1
800	5.512	34.562	0.24	5.443	27.276	36.301	44.926	1.265	38.8	-5.33	-0.058	16.52	1.484	795.2
900	5.046	34.563	0.44	4.972	27.332	36.380	45.027	1.351	46.3	-4.17	0.003	13.51	1.342	894.4
1000	4.659	34.565	0.53	4.578	27.378	36.447	45.112	1.434	54.3	-3.82	0.057	13.11	1.322	993.4
1200	3.927	34.581	0.87	3.835	27.470	36.576	45.277	1.585	71.3	-3.34	0.096	12.18	1.274	1191.4
1400	3.376	34.598	1.11	3.273	27.539	36.674	45.402	1.722	89.3	-2.27	0.080	8.49	1.064	1389.2
1600	2.938	34.614	1.45	2.822	27.593	36.752	45.502	1.847	108.5	-2.26	0.084	8.54	1.068	1586.8
1800	2.540	34.632	1.76	2.413	27.643	36.824	45.594	1.962	128.4	-1.92	0.084	7.54	1.003	1784.2
2000	2.250	34.646	2.06	2.109	27.680	36.876	45.662	2.068	149.0	-1.31	0.063	5.29	0.840	1981.4
2200	2.031	34.658	2.29	1.876	27.707	36.917	45.715	2.168	170.4	-1.08	0.050	4.36	0.763	2178.4
2400	1.884	34.666	2.46	1.715	27.726	36.944	45.750	2.263	192.7	-0.47	0.024	2.00	0.517	2375.2
2600	1.828	34.669	2.56	1.642	27.734	36.957	45.766	2.357	216.6	-0.25	0.011	1.06	0.375	2571.8
2800	1.820	34.670	2.63	1.615	27.737	36.961	45.772	2.451	242.4	-0.07	0.004	0.33	0.209	2768.3
3000	1.828	34.671	2.65	1.604	27.738	36.963	45.775	2.546	270.6	-0.03	0.002	0.16	0.146	2964.6
3200	1.840	34.671	2.67	1.596	27.739	36.964	45.776	2.643	301.3	-0.05	0.002	0.23	0.175	3160.7
3400	1.854	34.671	2.71	1.589	27.740	36.965	45.778	2.742	334.5	-0.03	0.000	0.12	0.129	3356.6
3600	1.868	34.672	2.73	1.582	27.741	36.966	45.779	2.842	370.3	-0.04	0.002	0.18	0.155	3552.4
3733	1.880	34.672	2.71	1.580	27.741	36.967	45.780	2.910	395.7	-0.01	0.001	0.18	0.000	3682.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	10.0	28.503	28.500	21.832	30.062	37.941	34.467	34.470	5.23	1.01	0.24	0.11	-0.01	1.622	0.850	9	222222222
23	49.1	18.714	18.705	25.202	33.691	41.813	35.137	34.731	2.22	9.37	2.01	27.13	0.07	1.384	0.731	48	222222222
22	98.4	13.633	13.619	26.185	34.853	43.143	34.894	34.887	0.55	21.66	2.16	31.48	0.02	0.416	0.223	97	222222222
21	123.0	13.150	13.133	26.267	34.953	43.261	34.871	34.868	0.75	22.17	2.13	31.08	0.02	0.391	0.223	122	222222222
20	147.1	12.712	12.692	26.305	35.009	43.333	34.806	34.822	1.03	23.37	2.10	30.38	0.02	0.378	0.209	146	222222222
19	173.2	12.529	12.506	26.381	35.092	43.423	34.857	34.834	0.59	24.68	2.22	32.39	0.01	0.281	0.174	172	222222222
18	197.9	12.287	12.261	26.395	35.116	43.456	34.813	34.811	0.45	26.09	2.32	33.19	0.01	0.244		196	222222225
17	248.2	11.616	11.585	26.499	35.248	43.614	34.783	34.779	0.19	29.02	2.45	34.49	0.01	0.159	0.090	246	222222222
15	395.4	9.716	9.670	26.760	35.589	44.030	34.682	34.681	0.02	42.42	2.84	29.09	1.71	0.015	0.016	392	222222222
14	495.7	7.849	7.799	26.994	35.907	44.427	34.605	34.601	0.11	59.44	3.17	33.56	1.04	0.013	0.019	492	222222222
13	595.3	6.871	6.814	27.121	36.079	44.642	34.589		0.07					0.013	0.010	591	252555522
12	695.4	6.239	6.176	27.196	36.185	44.777	34.577	34.575	0.15	73.45	3.28	43.89	0.01			690	222222255
11	794.1	5.591	5.522	27.262	36.283	44.905	34.557	34.565	0.26	81.51	3.32	45.49	0.01			788	222222255
10	993.6	4.689	4.609	27.373	36.440	45.104	34.563	34.568	0.51	96.82	3.34	45.80	0.00			985	222222255
9	1241.6	3.839	3.744	27.481	36.592	45.297	34.584	34.583	0.93	114.96	3.26	44.90	0.00			1230	222222255
8	1490.4	3.224	3.114	27.558	36.702	45.437	34.604	34.603	1.18	129.46	3.20	44.10	0.00			1476	222222255
7	1740.1	2.674	2.550	27.627	36.800	45.564	34.626	34.624	1.62	142.06	3.08	42.70	0.00			1723	222222255
6	1989.9	2.269	2.129	27.677	36.873	45.658	34.645	34.643	2.04	150.12	2.94	41.30	0.00			1969	222222255
5	2389.6	1.889	1.720	27.726	36.944	45.749	34.666	34.667	2.46	158.58	2.82	39.90	0.00			2362	222222255
4	2790.9	1.819	1.615	27.737	36.961	45.772	34.670	34.672	2.67	160.29	2.79	39.50	0.00	0.000	-0.004	2756	222222252
3	3189.8	1.839	1.596	27.739	36.964	45.776	34.671	34.670	2.67	159.99	2.78	39.30	0.00	0.008	0.005	3148	222222222
2	3479.2	1.859	1.586	27.741	36.966	45.779	34.672	34.672	2.70	159.69	2.77	39.11	-0.01			3431	222222255
1	3736.1	1.881	1.580	27.740	36.965	45.779	34.670	34.672	2.71	159.39	2.77	39.11	-0.01	0.000	-0.001	3682	222222252

CRUISE: MW 893 STA: 207 DATE (D/M/Y): 8- 5-89 TIME: 0647 LAT: 9 30.44 N LONG: 90 39.97 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24089E-04 1/S SOUND SPEED= 1496.8 M/S Depth= 3642 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.573	34.420	4.04	27.573	22.100	30.351	38.252	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.573	34.420	4.04	27.573	22.100	30.351	38.252	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	19.004	34.696	2.24	19.000	24.790	33.275	41.394	0.098	0.1	-467.09	13.260	3018.37	20.059	20.0
30	15.075	34.836	0.28	15.071	25.831	34.446	42.687	0.124	0.2	-205.69	8.398	1226.56	12.787	30.0
40	14.153	34.859	0.17	14.147	26.048	34.696	42.969	0.145	0.2	-43.77	-1.199	196.80	5.122	39.9
50	13.847	34.865	0.09	13.840	26.117	34.777	43.060	0.164	0.3	-14.76	1.941	108.26	3.799	49.9
100	13.091	34.860	0.14	13.078	26.270	34.958	43.268	0.255	1.0	-9.52	-0.139	43.02	2.395	99.7
125	12.835	34.850	0.14	12.818	26.314	35.013	43.332	0.299	1.5	-10.83	-0.232	47.59	2.519	124.6
150	12.626	34.846	0.11	12.606	26.353	35.060	43.387	0.342	2.1	-14.46	-1.553	37.46	2.235	149.4
200	11.860	34.791	0.08	11.834	26.458	35.197	43.553	0.425	3.6	-11.85	-0.600	39.34	2.290	199.2
250	11.349	34.763	0.03	11.318	26.533	35.293	43.669	0.504	5.4	-14.56	-0.756	50.78	2.602	249.0
300	10.535	34.724	0.01	10.499	26.650	35.444	43.852	0.579	7.5	-17.63	-0.878	59.36	2.813	298.7
350	9.641	34.677	0.01	9.601	26.768	35.600	44.044	0.649	9.8	-19.98	-0.885	65.40	2.953	348.4
400	8.796	34.637	0.00	8.753	26.873	35.743	44.222	0.714	12.3	-13.68	-0.523	44.12	2.425	398.1
450	8.143	34.616	0.01	8.097	26.958	35.858	44.365	0.774	14.9	-12.62	-0.441	39.63	2.298	447.8
500	7.662	34.608	0.01	7.612	27.023	35.945	44.472	0.831	17.7	-9.73	-0.174	32.58	2.084	497.4
600	6.893	34.593	0.01	6.836	27.121	36.078	44.640	0.938	23.7	-7.94	-0.176	24.81	1.818	596.7
700	6.100	34.574	0.07	6.037	27.212	36.207	44.805	1.037	30.2	-6.46	-0.120	19.76	1.623	695.9
800	5.486	34.566	0.09	5.417	27.282	36.308	44.934	1.129	37.3	-5.63	-0.027	18.06	1.552	795.1
900	5.053	34.567	0.28	4.978	27.335	36.383	45.029	1.215	44.7	-3.87	0.019	12.76	1.304	894.2
1000	4.621	34.569	0.41	4.541	27.386	36.456	45.122	1.297	52.6	-4.27	0.063	14.78	1.404	993.3
1200	3.880	34.584	0.76	3.788	27.477	36.585	45.288	1.447	69.5	-3.31	0.080	11.77	1.253	1191.3
1400	3.334	34.601	1.12	3.230	27.545	36.682	45.412	1.583	87.4	-2.53	0.086	9.38	1.118	1389.1
1600	2.880	34.617	1.53	2.765	27.601	36.762	45.515	1.706	106.2	-1.95	0.064	7.19	0.979	1586.6
1800	2.578	34.629	1.87	2.450	27.638	36.816	45.585	1.820	126.1	-1.58	0.073	6.27	0.914	1784.0
2000	2.283	34.644	2.13	2.142	27.675	36.870	45.655	1.928	146.9	-1.39	0.069	5.68	0.870	1981.2
2200	2.047	34.656	2.32	1.893	27.705	36.913	45.710	2.029	168.5	-1.15	0.054	4.72	0.793	2178.2
2400	1.893	34.665	2.46	1.724	27.724	36.942	45.748	2.125	191.1	-0.69	0.033	2.88	0.620	2375.1
2600	1.831	34.669	2.59	1.644	27.734	36.956	45.766	2.219	215.0	-0.23	0.012	1.00	0.365	2571.7
2800	1.818	34.670	2.65	1.613	27.737	36.961	45.773	2.313	240.8	-0.08	0.004	0.38	0.224	2768.2
3000	1.827	34.671	2.67	1.603	27.739	36.963	45.775	2.408	269.0	-0.04	0.002	0.16	0.144	2964.5
3200	1.840	34.672	2.69	1.596	27.740	36.964	45.777	2.505	299.6	-0.03	0.001	0.13	0.134	3160.6
3400	1.856	34.672	2.70	1.591	27.740	36.965	45.778	2.603	332.8	-0.03	0.001	0.12	0.127	3356.5
3600	1.871	34.672	2.71	1.585	27.741	36.966	45.779	2.704	368.7	-0.02	0.002	0.14	0.135	3552.3
3731	1.882	34.673	2.70	1.582	27.741	36.967	45.780	2.770	393.6	-0.03	0.002	0.14	0.000	3680.4

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.2	27.475	27.473	22.121	30.375	38.278	34.406	34.422	4.92	4.94	0.77	5.99	0.11	1.604	0.842	5	222222222
23	49.4	13.720	13.713	26.153	34.817	43.104	34.877	34.882	0.11	22.57	2.30	33.25	0.05	0.394	0.221	49	222222222
22	74.0	13.292	13.282	26.225	34.906	43.209	34.856	34.867	0.14	24.08	2.33	33.29	0.01	0.325	0.198	73	222222222
21	99.4	13.035	13.021	26.289	34.980	43.292	34.871	34.864	0.20	24.48	2.30	33.39	0.01	0.300	0.164	98	222222222
20	123.5	12.774	12.757	26.320	35.022	43.344	34.843	34.832	0.15	25.59	2.33	33.99	0.01	0.253	0.135	122	222222222
19	149.7	12.451	12.431	26.388	35.102	43.435	34.847	34.815	0.14	26.70	2.37	33.98	0.02	0.229	0.131	148	222222222
18	171.9	12.175	12.153	26.415	35.140	43.484	34.813	34.813	0.11	28.01	2.45	33.98	0.02	0.201	0.108	170	222222222
17	195.3	11.874	11.849	26.459	35.197	43.552	34.795	34.793	0.10	28.71	2.46	34.58	0.02	0.167		194	222222225
16	246.8	11.342	11.311	26.534	35.294	43.670	34.763	34.763	0.06	31.33	2.57	34.44	0.06	0.109		245	222222225
15	296.6	10.648	10.613	26.636	35.424	43.828	34.731	34.730	0.04	35.97	2.68	31.50	1.10	0.061		294	222222225
14	396.8	8.932	8.889	26.862	35.726	44.199	34.650	34.648	0.05	49.77	2.98	30.54	1.26	0.014		394	222222225
13	495.8	7.575	7.526	27.038	35.963	44.494	34.610	34.607	0.05	60.85	3.18	37.59	0.01	0.006		492	222222225
12	595.3	6.800	6.744	27.138	36.100	44.666	34.599	34.591	0.09	67.70	3.24	42.10	0.00	0.004		591	222222225
11	694.9	6.032	5.970	27.224	36.223	44.823	34.579	34.575	0.16	76.27	3.29	44.60	0.00	0.002	0.000	689	222222225
10	794.3	5.482	5.414	27.283	36.310	44.936	34.567	34.567	0.17	85.54	3.36	45.59	0.01			788	222222255
9	990.6	4.662	4.582	27.382	36.450	45.115	34.570	34.568	0.42	99.14	3.39	46.20	0.00			982	222222255
8	1192.4	3.933	3.841	27.469	36.575	45.275	34.581	34.581	0.80	113.85	3.30	45.40	0.00			1182	222222255
7	1491.1	3.095	2.987	27.576	36.726	45.468	34.611	34.609	1.32	132.39	3.16	43.80	0.00			1477	222222255
6	1790.7	2.583	2.456	27.637	36.815	45.584	34.629	34.627	1.84	142.56	2.98	42.00	0.00			1773	222222255
5	2189.3	2.058	1.904	27.702	36.910	45.707	34.654	34.655	2.29	155.66	2.86	40.50	0.00			2165	222222255
4	2589.7	1.828	1.642	27.734	36.956	45.766	34.669	34.671	2.56	161.00	2.80	39.60	0.00	-0.002	-0.004	2559	222222222
3	2988.1	1.825	1.602	27.739	36.963	45.775	34.671	34.671	2.64	161.30	2.76	39.40	0.00	0.004	-0.005	2950	222222222
2	3390.3	1.854	1.590	27.741	36.966	45.778	34.672	34.672	2.69	159.79	2.77	39.31	-0.01	-0.001	0.001	3344	222222222
1	3734.0	1.883	1.582	27.740	36.966	45.779	34.671	34.672	2.70	159.99	2.78	39.20	0.00	0.000	0.003	3680	222222252

CRUISE: MW 893 STA: 208 DATE (D/M/Y): 8- 5-89 TIME: 1233 LAT: 9 30.21 N LONG: 89 59.69 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24080E-04 1/S SOUND SPEED= 1496.0 M/S Depth= 3570 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	26.729	34.359	4.93	26.729	22.323	30.596	38.516	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	26.729	34.359	4.93	26.728	22.323	30.596	38.516	0.006	0.0	-0.45	0.000	0.00	0.000	1.0
20	19.402	34.701	1.90	19.398	24.692	33.164	41.271	0.101	0.1	-786.97	24.493	5219.38	26.382	20.0
30	15.301	34.840	0.25	15.296	25.784	34.391	42.624	0.127	0.2	-129.54	2.106	716.14	9.772	30.0
40	14.397	34.882	0.16	14.391	26.013	34.653	42.916	0.147	0.2	-49.47	2.593	296.83	6.292	39.9
50	13.961	34.885	0.16	13.953	26.109	34.764	43.043	0.167	0.3	-47.86	0.418	244.55	5.711	49.9
100	12.927	34.843	0.49	12.913	26.289	34.985	43.301	0.257	1.0	-14.30	-0.860	52.24	2.639	99.7
125	12.584	34.829	0.34	12.567	26.347	35.056	43.385	0.300	1.5	-13.55	-0.980	47.67	2.521	124.6
150	12.361	34.815	0.32	12.341	26.380	35.098	43.435	0.342	2.1	-10.31	-0.552	35.71	2.182	149.4
200	11.761	34.784	0.11	11.735	26.472	35.215	43.575	0.424	3.6	-10.21	-0.286	41.01	2.338	199.2
250	11.184	34.754	0.08	11.153	26.557	35.323	43.705	0.503	5.4	-16.48	-0.894	56.31	2.740	249.0
300	10.500	34.723	0.07	10.464	26.656	35.451	43.860	0.577	7.4	-13.52	-0.726	44.32	2.431	298.7
350	9.634	34.674	0.06	9.594	26.766	35.599	44.043	0.647	9.8	-17.53	-1.011	53.08	2.661	348.4
400	8.868	34.640	0.06	8.824	26.864	35.731	44.207	0.712	12.2	-15.24	-0.440	51.74	2.627	398.1
450	8.109	34.620	0.05	8.063	26.966	35.867	44.375	0.773	14.9	-14.24	-0.332	47.61	2.520	447.8
500	7.615	34.607	0.04	7.565	27.029	35.953	44.482	0.829	17.6	-9.08	-0.209	29.45	1.982	497.4
600	6.768	34.587	0.04	6.711	27.133	36.096	44.664	0.936	23.6	-7.36	-0.111	23.73	1.779	596.7
700	6.018	34.571	0.07	5.956	27.219	36.219	44.820	1.034	30.1	-6.68	-0.106	20.65	1.659	695.9
800	5.474	34.566	0.13	5.406	27.284	36.311	44.937	1.125	37.0	-4.43	-0.017	14.27	1.379	795.1
900	4.971	34.566	0.22	4.897	27.343	36.395	45.045	1.211	44.5	-5.76	0.030	19.06	1.594	894.2
1000	4.483	34.570	0.37	4.403	27.402	36.478	45.152	1.291	52.2	-3.78	0.043	12.73	1.303	993.3
1200	3.793	34.585	0.74	3.702	27.487	36.599	45.306	1.439	68.8	-3.51	0.099	12.68	1.300	1191.3
1400	3.232	34.605	1.18	3.129	27.558	36.700	45.435	1.571	86.3	-2.57	0.090	9.48	1.124	1389.0
1600	2.832	34.620	1.55	2.717	27.608	36.772	45.527	1.691	104.7	-1.64	0.068	6.28	0.915	1586.6
1800	2.485	34.634	1.88	2.358	27.650	36.833	45.606	1.804	124.2	-1.60	0.069	6.25	0.913	1784.0
2000	2.258	34.646	2.10	2.118	27.679	36.875	45.661	1.909	144.7	-1.10	0.050	4.41	0.766	1981.2
2200	2.045	34.657	2.28	1.891	27.705	36.914	45.711	2.010	166.2	-1.08	0.050	4.38	0.764	2178.2
2400	1.874	34.666	2.45	1.705	27.727	36.946	45.752	2.106	188.6	-0.62	0.030	2.59	0.588	2375.0
2600	1.821	34.669	2.57	1.635	27.735	36.958	45.768	2.199	212.4	-0.21	0.010	0.90	0.347	2571.7
2800	1.817	34.671	2.62	1.613	27.738	36.962	45.773	2.293	238.2	-0.09	0.005	0.38	0.227	2768.1
3000	1.826	34.671	2.63	1.602	27.739	36.963	45.775	2.388	266.4	-0.04	0.002	0.18	0.154	2964.4
3200	1.838	34.672	2.65	1.594	27.740	36.965	45.777	2.485	297.0	-0.02	0.001	0.12	0.126	3160.5
3400	1.856	34.672	2.65	1.591	27.740	36.965	45.778	2.583	330.2	0.00	0.000	0.01	0.042	3356.5
3600	1.877	34.672	2.61	1.591	27.740	36.965	45.778	2.684	366.0	-0.01	0.001	0.01	0.000	3552.2
3613	1.878	34.672	2.62	1.590	27.741	36.966	45.778	2.690	368.5	-0.01	0.001	0.01	0.000	3565.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.9	26.226	26.224	22.517	30.802	38.734	34.406	34.367	5.02	3.32	0.21	2.11	0.09	1.502	0.786	9	222222222
23	50.4	13.592	13.585	26.193	34.862	43.154	34.895	34.890	0.09	22.06	2.27	33.39	0.01	0.355	0.176	50	222222222
22	74.6	13.153	13.143	26.259	34.946	43.253	34.864	34.861	0.15	23.58	2.32	33.39	0.01	0.312	0.156	74	222222222
21	98.8	12.812	12.799	26.312	35.012	43.332	34.843	34.840	0.34	23.98	2.25	33.09	0.01	0.285	0.146	98	222222222
20	124.2	12.563	12.546	26.353	35.063	43.392	34.832	34.830	0.20	25.39	2.34	33.90	0.00	0.237	0.117	123	222222222
19	149.1	12.260	12.240	26.399	35.121	43.462	34.814	34.811	0.22	26.50	2.36	34.20	0.00	0.215	0.112	148	222222222
18	174.1	11.975	11.953	26.452	35.185	43.537	34.811	34.807	0.11	28.41	2.43	34.80	0.00	0.173	0.090	173	222222222
17	198.6	11.751	11.726	26.486	35.229	43.589	34.800	34.797	0.07	29.02	2.47	34.90	0.00	0.151	0.086	197	222222222
16	247.6	11.212	11.181	26.554	35.320	43.701	34.758	34.755	0.07	31.43	2.55	33.69	0.01	0.094	0.057	246	222222222
15	295.9	10.572	10.537	26.647	35.439	43.846	34.729	34.728	0.09	35.77	2.68	31.73	0.77	0.051		294	222222225
14	397.0	8.823	8.780	26.873	35.741	44.219	34.641	34.639	0.05	50.78	3.01	26.32	1.88	0.010		394	222222225
13	499.2	7.626	7.576	27.029	35.952	44.482	34.609	34.605	0.06	60.45	3.15	36.66	0.24	0.006	0.008	495	222222222
12	617.4	6.760	6.702	27.136	36.100	44.668	34.589	34.587	0.08	67.50	3.22	42.21	-0.01			613	222222255
11	793.6	5.534	5.466	27.278	36.301	44.925	34.568	34.567	0.16	84.13	3.33	45.51	-0.01			787	222222255
10	992.7	4.538	4.459	27.394	36.468	45.139	34.569	34.570	0.45	100.95	3.37	46.31	-0.01			984	222222255
9	1244.7	3.619	3.526	27.509	36.631	45.346	34.591	34.593	0.90	120.60	3.27	45.11	-0.01			1233	222222255
8	1491.1	3.000	2.893	27.586	36.741	45.487	34.613	34.613	1.36	134.00	3.14	43.71	-0.01	0.008	-0.003	1477	222222222
7	1741.8	2.602	2.479	27.635	36.812	45.580	34.629	34.627	1.80	142.16	3.00	42.21	-0.01			1724	222222255
6	1989.7	2.276	2.137	27.677	36.872	45.657	34.646	34.645	2.10	149.21	2.88	41.11	-0.01			1969	222222255
5	2389.8	1.891	1.722	27.725	36.943	45.748	34.665	34.662	2.43	158.68	2.82	39.91	-0.01			2362	222222255
4	2789.0	1.816	1.612	27.738	36.961	45.773	34.671	34.666	2.53	155.15	2.80	39.61	-0.01			2755	222222255
3	3090.5	1.830	1.597	27.740	36.964	45.777	34.672	34.670	2.65	159.29	2.76	39.42	-0.02	0.001		3050	222222225
2	3392.5	1.855	1.591	27.741	36.966	45.778	34.673	34.670	2.65	159.49	2.78	39.32	-0.02	0.000		3346	222222255
1	3615.3	1.878	1.590	27.740	36.965	45.778	34.672	34.671	2.65	160.19	2.78	39.30	0.00	0.000	-0.001	3564	222222252

CRUISE: MW 893 STA: 209 DATE (D/M/Y): 8- 5-89 TIME: 1800 LAT: 9 29.98 N LONG: 89 19.95 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24070E-04 1/S SOUND SPEED= 1495.9 M/S Depth= 3560 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.460	34.209	4.84	27.460	21.977	30.234	38.139	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.460	34.209	4.84	27.459	21.977	30.234	38.139	0.018	0.0	-0.46	0.000	0.00	0.000	3.0
20	21.284	34.605	2.36	21.280	24.118	32.534	40.589	0.104	0.1	-405.45	22.668	3000.37	20.007	20.0
30	17.224	34.806	0.45	17.219	25.314	33.855	42.027	0.136	0.2	-323.36	10.839	2006.18	16.360	30.0
40	14.895	34.870	0.20	14.889	25.897	34.518	42.765	0.159	0.3	-107.38	0.841	568.07	8.705	39.9
50	14.147	34.872	0.29	14.140	26.059	34.708	42.980	0.179	0.4	-31.44	-1.997	120.91	4.016	49.9
100	13.125	34.873	0.33	13.111	26.273	34.960	43.269	0.271	1.1	-15.30	-0.892	56.85	2.754	99.7
125	12.721	34.839	0.22	12.704	26.328	35.031	43.355	0.315	1.6	-9.63	-0.616	35.42	2.174	124.6
150	12.513	34.831	0.20	12.493	26.363	35.075	43.406	0.358	2.2	-10.26	-0.501	38.02	2.252	149.5
200	11.973	34.794	0.15	11.947	26.440	35.174	43.526	0.441	3.6	-10.03	-0.488	36.83	2.217	199.2
250	11.389	34.765	0.11	11.358	26.528	35.285	43.660	0.520	5.5	-11.71	-0.656	40.14	2.314	249.0
300	10.761	34.735	0.09	10.724	26.619	35.403	43.802	0.596	7.6	-11.89	-0.516	41.99	2.367	298.7
350	10.064	34.701	0.08	10.023	26.715	35.529	43.956	0.669	10.0	-17.63	-0.825	58.63	2.797	348.4
400	9.223	34.666	0.07	9.179	26.828	35.679	44.140	0.736	12.6	-15.58	-0.416	54.89	2.706	398.1
450	8.484	34.629	0.07	8.436	26.917	35.801	44.293	0.799	15.3	-12.82	-0.439	41.44	2.351	447.8
500	7.899	34.611	0.06	7.848	26.991	35.902	44.419	0.858	18.1	-12.11	-0.452	36.94	2.220	497.5
600	6.977	34.591	0.05	6.920	27.108	36.061	44.619	0.967	24.3	-7.92	-0.140	25.76	1.854	596.7
700	6.188	34.573	0.08	6.125	27.199	36.191	44.785	1.067	30.9	-8.00	-0.153	24.63	1.813	696.0
800	5.563	34.566	0.14	5.494	27.273	36.295	44.918	1.160	38.0	-5.01	0.002	16.68	1.492	795.1
900	5.051	34.567	0.35	4.976	27.335	36.383	45.029	1.247	45.5	-5.31	0.030	17.87	1.544	894.3
1000	4.624	34.569	0.43	4.543	27.385	36.455	45.122	1.329	53.5	-4.41	0.052	14.93	1.411	993.3
1200	3.834	34.586	0.92	3.743	27.483	36.593	45.299	1.478	70.2	-3.13	0.106	11.66	1.247	1191.3
1400	3.408	34.603	1.17	3.304	27.540	36.673	45.400	1.612	88.0	-2.01	0.050	7.11	0.974	1389.1
1600	2.920	34.616	1.37	2.805	27.596	36.756	45.507	1.738	107.1	-2.47	0.084	9.19	1.107	1586.7
1800	2.568	34.631	1.77	2.440	27.640	36.819	45.589	1.852	126.9	-1.58	0.066	6.12	0.903	1784.1
2000	2.278	34.645	2.11	2.138	27.676	36.871	45.656	1.959	147.7	-1.30	0.058	5.19	0.832	1981.3
2200	2.057	34.656	2.27	1.902	27.703	36.912	45.708	2.060	169.3	-1.07	0.050	4.38	0.764	2178.3
2400	1.913	34.664	2.41	1.743	27.722	36.939	45.744	2.157	192.0	-0.73	0.036	3.09	0.642	2375.1
2600	1.839	34.668	2.51	1.653	27.733	36.954	45.764	2.251	216.1	-0.29	0.016	1.29	0.415	2571.7
2800	1.826	34.670	2.57	1.621	27.737	36.960	45.771	2.346	242.0	-0.10	0.006	0.45	0.246	2768.2
3000	1.833	34.671	2.59	1.609	27.738	36.962	45.774	2.441	270.3	-0.04	0.003	0.21	0.166	2964.5
3200	1.848	34.671	2.59	1.604	27.739	36.963	45.775	2.538	301.0	-0.01	0.001	0.05	0.078	3160.6
3400	1.867	34.671	2.59	1.602	27.739	36.963	45.775	2.637	334.3	-0.02	0.002	0.10	0.117	3356.5
3543	1.879	34.672	2.57	1.599	27.740	36.964	45.776	2.709	359.8	-0.02	0.002	0.10	0.000	3496.5

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	1.6	27.486	27.486	22.120	30.374	38.277	34.411	34.413	5.17	1.31	0.57	4.19	0.21	1.641	0.850	1	222222222
23	50.2	13.884	13.877	26.114	34.773	43.054	34.871	34.861	0.30	21.76	2.23	32.05	0.05	0.477	0.239	49	222222222
22	99.1	12.937	12.924	26.306	35.001	43.316	34.868	34.859	0.24	24.28	2.30	33.17	0.03	0.298	0.151	98	222222222
21	122.7	12.619	12.602	26.348	35.056	43.383	34.840	34.835	0.19	25.49	2.36	33.88	0.02	0.250	0.126	121	222222222
20	149.7	12.401	12.381	26.378	35.094	43.430	34.822	34.822	0.19	26.40	2.38	33.98	0.02	0.225	0.112	148	222222222
19	174.1	12.174	12.151	26.408	35.134	43.478	34.804	34.801	0.10	27.61	2.43	34.20	0.00	0.198	0.104	173	222222222
18	198.5	12.007	11.981	26.440	35.172	43.523	34.803	34.798	0.10	28.31	2.45	34.28	0.02	0.180	0.097	197	222222222
17	246.9	11.428	11.397	26.522	35.278	43.651	34.767	34.768	0.04	30.83	2.53	34.30	0.00	0.119	0.070	245	222222222
16	297.6	10.717	10.681	26.632	35.418	43.819	34.742	34.739	0.04	34.76	2.63	33.64	0.06	0.062	0.044	295	222222222
15	395.9	9.239	9.195	26.824	35.674	44.135	34.664	34.668	0.04	47.25	2.93	30.81	1.29	0.013	0.013	393	222222222
14	495.8	7.857	7.807	26.998	35.911	44.430	34.612	34.612	0.03	58.13	3.15	35.06	0.64	0.007		492	222222225
13	594.8	6.925	6.869	27.112	36.068	44.629	34.588	34.588	0.05	66.50	3.24	41.00	0.00			590	222222255
12	696.1	6.253	6.189	27.187	36.176	44.767	34.568	34.575	0.10	74.15	3.28	43.80	0.00			691	222222255
11	794.7	5.633	5.564	27.267	36.286	44.905	34.569	34.570	0.16	83.12	3.34	45.40	0.00			788	222222255
10	993.5	4.623	4.543	27.387	36.457	45.123	34.571	34.569	0.43	100.15	3.42	46.20	0.00			985	222222255
9	1192.7	3.856	3.765	27.481	36.590	45.294	34.586	34.585	0.91	114.96	3.26	45.00	0.00			1182	222222255
8	1390.7	3.422	3.319	27.538	36.671	45.396	34.603	34.601	1.18	125.43	3.19	44.10	0.00			1378	222222255
7	1691.7	2.765	2.644	27.617	36.785	45.544	34.624	34.624	1.62	140.24	3.07	42.70	0.00			1675	222222255
6	1991.0	2.290	2.150	27.676	36.870	45.654	34.646	34.644	2.11	148.30	2.92	41.10	0.00			1970	222222255
5	2291.3	1.986	1.824	27.714	36.926	45.727	34.661	34.659	2.34	156.67	2.83	40.20	0.00			2265	222222255
4	2590.4	1.847	1.661	27.733	36.954	45.763	34.669	34.667	2.52	159.89	2.80	39.72	-0.02			2560	222222255
3	2889.3	1.826	1.612	27.739	36.963	45.774	34.672	34.671	2.57	161.60	2.78	39.40	0.00	0.003		2853	222222225
2	3192.0	1.848	1.604	27.739	36.963	45.775	34.672	34.671	2.59	162.01	2.78	39.50	0.00	0.002		3150	222222225
1	3543.2	1.879	1.599	27.739	36.964	45.776	34.672	34.671	2.60	161.91	2.78	39.40	0.00	-0.002	-0.001	3493	222222222

CRUISE: MW 893 STA: 210 DATE (D/M/Y): 8- 5-89 TIME: 2336 LAT: 9 29.85 N LONG: 88 39.99 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24065E-04 1/S SOUND SPEED= 1495.2 M/S Depth= 3399 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.308	34.457	4.74	27.308	22.212	30.470	38.376	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.308	34.457	4.74	27.308	22.212	30.470	38.376	0.006	0.0	-0.46	0.000	0.00	0.000	1.0
20	17.001	34.798	1.53	16.998	25.361	33.909	42.088	0.096	0.1	-469.76	8.881	2848.86	19.497	20.0
30	15.379	34.839	0.29	15.374	25.766	34.370	42.601	0.120	0.1	-104.23	3.412	606.08	8.993	30.0
40	14.226	34.878	0.24	14.220	26.047	34.693	42.962	0.141	0.2	-66.32	1.117	352.90	6.862	39.9
50	13.804	34.883	0.25	13.797	26.140	34.801	43.085	0.160	0.3	-32.09	1.040	176.88	4.858	49.9
100	12.976	34.853	0.24	12.963	26.287	34.980	43.294	0.250	1.0	-12.25	-0.853	42.82	2.390	99.7
125	12.723	34.839	0.25	12.706	26.327	35.030	43.354	0.294	1.5	-13.73	-0.758	50.59	2.598	124.6
150	12.375	34.816	0.35	12.356	26.378	35.096	43.432	0.336	2.1	-13.37	-0.917	45.85	2.474	149.4
200	11.799	34.785	0.20	11.773	26.466	35.207	43.565	0.418	3.6	-13.54	-0.710	48.30	2.539	199.2
250	11.183	34.754	0.13	11.152	26.557	35.324	43.706	0.497	5.4	-13.63	-0.664	47.86	2.527	248.9
300	10.450	34.718	0.11	10.414	26.661	35.458	43.870	0.571	7.4	-14.72	-0.716	49.56	2.572	298.7
350	9.732	34.687	0.10	9.692	26.760	35.588	44.029	0.641	9.7	-12.64	-0.578	41.45	2.352	348.4
400	9.155	34.656	0.10	9.111	26.831	35.685	44.149	0.707	12.3	-15.25	-0.551	50.57	2.598	398.1
450	8.322	34.629	0.09	8.275	26.941	35.832	44.331	0.769	15.0	-13.04	-0.453	41.52	2.354	447.8
500	7.707	34.612	0.09	7.657	27.020	35.939	44.465	0.827	17.8	-10.47	-0.329	32.69	2.089	497.4
600	6.871	34.585	0.18	6.814	27.117	36.076	44.639	0.934	23.8	-6.91	-0.161	21.30	1.686	596.7
700	6.206	34.574	0.19	6.143	27.198	36.189	44.782	1.034	30.4	-5.45	-0.086	17.05	1.508	695.9
800	5.682	34.575	0.38	5.612	27.266	36.282	44.899	1.127	37.5	-5.20	0.046	18.32	1.563	795.1
900	5.213	34.572	0.52	5.137	27.320	36.360	44.999	1.215	45.2	-3.94	-0.006	12.76	1.305	894.2
1000	4.793	34.574	0.70	4.711	27.370	36.432	45.090	1.299	53.3	-4.82	-0.004	15.42	1.434	993.3
1200	4.026	34.581	0.80	3.933	27.460	36.561	45.257	1.452	70.4	-3.10	0.078	11.14	1.219	1191.3
1400	3.395	34.599	1.04	3.292	27.538	36.672	45.399	1.591	88.7	-2.94	0.095	10.85	1.203	1389.1
1600	2.895	34.617	1.52	2.780	27.600	36.761	45.513	1.715	107.7	-2.26	0.082	8.48	1.064	1586.7
1800	2.563	34.632	1.83	2.435	27.641	36.820	45.590	1.829	127.5	-1.37	0.066	5.47	0.854	1784.0
2000	2.325	34.644	2.11	2.183	27.672	36.865	45.647	1.937	148.3	-1.24	0.054	4.90	0.809	1981.2
2200	2.113	34.655	2.27	1.957	27.698	36.903	45.697	2.039	170.2	-1.05	0.049	4.29	0.757	2178.3
2400	1.937	34.663	2.39	1.767	27.720	36.936	45.739	2.136	193.1	-0.79	0.036	3.28	0.662	2375.1
2600	1.845	34.669	2.53	1.658	27.733	36.954	45.763	2.231	217.2	-0.27	0.014	1.18	0.397	2571.7
2800	1.830	34.671	2.56	1.625	27.737	36.960	45.771	2.325	243.2	-0.12	0.007	0.56	0.274	2768.2
3000	1.835	34.671	2.58	1.611	27.738	36.962	45.774	2.421	271.4	-0.04	0.002	0.19	0.160	2964.5
3200	1.849	34.672	2.58	1.605	27.739	36.963	45.775	2.518	302.1	-0.01	0.001	0.08	0.101	3160.6
3400	1.868	34.672	2.53	1.603	27.740	36.964	45.776	2.617	335.4	-0.01	0.003	0.08	0.000	3356.5
3415	1.869	34.672	2.54	1.603	27.740	36.964	45.776	2.624	338.0	-0.01	0.003	0.08	0.000	3371.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.6	26.796	26.794	22.367	30.637	38.555	34.444	34.455	5.29	3.73	0.51	2.84	0.46	1.598	0.851	9	222222222
23	49.2	13.611	13.604	26.187	34.855	43.146	34.892	34.888	0.08	23.07	2.33	33.39	0.01	0.360	0.189	48	222222222
22	73.9	13.169	13.159	26.259	34.945	43.252	34.868	34.884	0.18	23.78	2.30	33.40	0.00	0.311	0.167	73	222222222
21	99.4	12.829	12.816	26.309	35.008	43.328	34.844	34.848	0.18	25.39	2.35	33.60	0.00	0.277	0.150	98	222222222
20	125.3	12.561	12.544	26.352	35.062	43.392	34.830	34.831	0.16	26.40	2.38	34.10	0.00	0.239	0.136	124	222222222
19	148.9	12.202	12.182	26.408	35.133	43.476	34.812	34.811	0.19	27.10	2.40	34.29	0.01	0.216	0.124	148	222222222
18	173.7	11.949	11.927	26.452	35.187	43.540	34.805	34.800	0.16	28.51	2.43	34.59	0.01	0.180	0.111	172	222222222
17	196.3	11.696	11.671	26.480	35.225	43.587	34.779	34.780	0.15	29.42	2.46	34.59	0.01	0.158	0.099	195	222222222
16	249.8	11.099	11.068	26.571	35.341	43.727	34.753	34.754	0.08	33.05	2.59	34.26	0.04	0.084		248	222222225
15	296.7	10.378	10.343	26.678	35.478	43.892	34.724	34.721	0.04	37.68	2.71	31.41	0.79	0.042	0.031	294	222222222
14	396.7	9.049	9.005	26.844	35.702	44.171	34.650	34.651	0.06	49.07	2.96	30.00	1.30	0.012	0.016	394	222222222
13	494.9	7.758	7.708	27.027	35.943	44.467	34.630	34.615	0.10	58.44	3.16	37.01	-0.01	0.008	0.010	491	222222222
12	621.1	6.727	6.668	27.137	36.102	44.671	34.584	34.582	0.06	65.59	3.22	43.11	-0.01			616	222222255
11	792.8	5.693	5.624	27.260	36.276	44.893	34.570	34.569	0.33	79.49	3.28	45.21	-0.01			786	222222255
10	994.2	4.820	4.739	27.367	36.427	45.084	34.573	34.574	0.66	93.80	3.27	45.11	-0.01			986	222222255
9	1242.9	3.834	3.739	27.478	36.589	45.294	34.579	34.584	0.79	115.06	3.31	45.50	0.00			1232	222222255
8	1491.9	3.169	3.060	27.565	36.711	45.450	34.606	34.607	1.33	130.17	3.16	43.70	0.00			1478	222222255
7	1736.2	2.658	2.535	27.628	36.802	45.566	34.626	34.630	1.77	140.95	3.01	42.42	-0.02			1719	222222255
6	1989.3	2.320	2.180	27.673	36.866	45.648	34.645	34.642	2.13	147.80	2.92	41.11	-0.01			1968	222222255
5	2288.6	2.009	1.847	27.711	36.922	45.722	34.660	34.659	2.36	155.76	2.84	40.21	-0.01	0.001		2263	222222225
4	2588.5	1.846	1.660	27.732	36.954	45.763	34.669	34.666	2.51	159.39	2.79	39.61	-0.01	0.000		2558	222222255
3	2884.0	1.828	1.615	27.737	36.961	45.772	34.670	34.672	2.58	160.49	2.78	39.51	-0.01	-0.001	-0.005	2848	222222222
2	3191.8	1.849	1.605	27.739	36.963	45.775	34.672	34.672	2.58	160.49	2.78	39.41	-0.01			3149	222222255
1	3418.7	1.870	1.603	27.739	36.963	45.775	34.671	34.671	2.59	162.21	2.78	39.41	-0.01	-0.001	0.002	3372	222222222

CRUISE: MW 893 STA: 211 DATE (D/M/Y): 9- 5-89 TIME: 0517 LAT: 9 30.08 N LONG: 87 59.78 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24074E-04 1/S SOUND SPEED= 1494.8 M/S Depth= 3273 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.248	34.225	5.02	28.248	21.734	29.972	37.859	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.248	34.225	5.02	28.247	21.734	29.972	37.859	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	21.210	34.603	2.52	21.206	24.137	32.556	40.613	0.106	0.1	-431.85	19.854	3081.15	20.273	20.0
30	16.873	34.778	0.45	16.868	25.376	33.929	42.112	0.137	0.2	-287.65	11.489	1799.66	15.493	30.0
40	14.489	34.850	0.15	14.483	25.969	34.606	42.867	0.160	0.3	-136.58	1.876	727.31	9.850	39.9
50	13.843	34.864	0.16	13.836	26.117	34.777	43.060	0.180	0.3	-16.24	1.683	110.81	3.844	49.9
100	13.017	34.872	0.18	13.003	26.294	34.985	43.298	0.270	1.0	-17.73	-1.208	62.57	2.889	99.7
125	12.631	34.836	0.23	12.614	26.343	35.050	43.377	0.314	1.5	-14.26	-1.024	48.60	2.546	124.6
150	12.319	34.811	0.11	12.299	26.385	35.105	43.444	0.356	2.1	-6.86	-0.269	27.77	1.924	149.5
200	11.858	34.796	0.16	11.832	26.463	35.201	43.558	0.438	3.6	-12.69	-0.776	43.49	2.408	199.2
250	11.344	34.768	0.22	11.313	26.538	35.298	43.674	0.517	5.4	-7.21	-0.317	26.23	1.870	249.0
300	10.850	34.742	0.17	10.814	26.609	35.389	43.785	0.593	7.5	-11.95	-0.550	41.87	2.363	298.7
350	10.248	34.712	0.09	10.206	26.692	35.498	43.918	0.666	9.9	-11.66	-0.607	38.26	2.259	348.4
400	9.368	34.671	0.03	9.323	26.808	35.653	44.108	0.735	12.6	-18.21	-0.663	61.68	2.868	398.1
450	8.678	34.651	0.02	8.629	26.904	35.779	44.263	0.798	15.3	-11.23	-0.387	36.82	2.216	447.8
500	8.105	34.630	0.02	8.053	26.975	35.877	44.385	0.858	18.2	-13.64	-0.444	43.54	2.410	497.5
600	7.172	34.602	0.09	7.114	27.089	36.034	44.583	0.969	24.5	-8.10	-0.215	25.22	1.834	596.7
700	6.486	34.588	0.21	6.421	27.173	36.150	44.730	1.072	31.2	-5.71	-0.101	17.86	1.544	696.0
800	5.784	34.567	0.18	5.714	27.247	36.258	44.871	1.168	38.6	-6.47	-0.078	20.38	1.649	795.2
900	5.251	34.567	0.30	5.175	27.311	36.350	44.987	1.257	46.3	-4.15	0.018	13.91	1.362	894.3
1000	4.828	34.569	0.43	4.746	27.362	36.422	45.079	1.342	54.5	-4.28	0.035	14.50	1.391	993.3
1200	4.012	34.581	0.63	3.919	27.461	36.563	45.259	1.496	71.9	-3.76	0.102	13.71	1.352	1191.3
1400	3.445	34.600	1.17	3.341	27.534	36.665	45.390	1.634	90.1	-2.47	0.062	8.84	1.086	1389.1
1600	3.013	34.615	1.43	2.896	27.587	36.742	45.488	1.762	109.6	-2.40	0.117	9.63	1.133	1586.7
1800	2.566	34.633	1.82	2.438	27.641	36.821	45.590	1.877	129.6	-2.00	0.078	7.67	1.012	1784.1
2000	2.303	34.645	2.11	2.162	27.674	36.868	45.652	1.985	150.4	-1.12	0.049	4.43	0.769	1981.3
2200	2.089	34.655	2.26	1.934	27.701	36.907	45.702	2.087	172.2	-1.28	0.057	5.17	0.830	2178.3
2400	1.910	34.664	2.40	1.741	27.723	36.940	45.745	2.183	194.9	-0.70	0.036	2.99	0.632	2375.1
2600	1.833	34.669	2.52	1.647	27.734	36.956	45.765	2.277	218.9	-0.32	0.018	1.42	0.435	2571.8
2800	1.822	34.671	2.57	1.617	27.738	36.961	45.772	2.371	244.8	-0.08	0.004	0.37	0.221	2768.2
3000	1.831	34.672	2.57	1.607	27.739	36.963	45.775	2.467	273.0	-0.03	0.001	0.12	0.129	2964.5
3200	1.848	34.672	2.54	1.604	27.739	36.964	45.775	2.564	303.6	-0.01	0.002	0.12	0.000	3160.6
3291	1.857	34.672	2.52	1.604	27.739	36.964	45.776	2.608	318.5	0.00	0.002	0.12	0.000	3249.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.1	28.027	28.026	21.747	29.991	37.884	34.146	34.224	5.33	2.82	0.30	0.26	0.04	1.587	0.844	4	222222222
23	48.5	13.853	13.846	26.116	34.775	43.058	34.865	34.859	0.10	23.17	2.35	33.27	0.03	0.414	0.213	48	222222222
22	99.6	12.996	12.982	26.295	34.987	43.301	34.868	34.867	0.13	25.29	2.38	33.69	0.01	0.268	0.138	99	222222222
21	123.2	12.637	12.620	26.342	35.049	43.376	34.836	34.832	0.20	25.99	2.36	33.89	0.01	0.251	0.128	122	222222222
20	148.1	12.323	12.304	26.388	35.107	43.446	34.815	34.812	0.10	27.50	2.43	33.99	0.01	0.207	0.106	147	222222222
19	172.1	12.214	12.191	26.414	35.138	43.481	34.822	34.817	0.20	27.50	2.39	34.39	0.01	0.206	0.106	171	222222222
18	198.2	11.929	11.903	26.455	35.191	43.544	34.804	34.803	0.14	28.61	2.43	34.79	0.01	0.171	0.096	196	222222222
17	235.2	11.533	11.503	26.514	35.265	43.634	34.782	34.776	0.20	29.72	2.45	34.79	0.01	0.147	0.090	233	222222222
16	294.5	10.916	10.880	26.601	35.378	43.771	34.747	34.750	0.20	32.54	2.52	35.29	0.01	0.096	0.063	292	222222222
15	395.4	9.184	9.140	26.836	35.688	44.151	34.668	34.665	0.03	47.86	2.93	31.17	1.13	0.011	0.003	392	222222222
14	495.5	7.970	7.919	26.996	35.903	44.417	34.631	34.628	0.07	54.91	3.08	39.00	0.00	0.005	0.001	492	222222222
13	593.3	7.119	7.062	27.095	36.042	44.593	34.599	34.597	0.15	61.16	3.17	42.20	0.00			589	222222255
12	695.1	6.454	6.390	27.177	36.156	44.737	34.588	34.589	0.24	69.52	3.19	43.70	0.00			690	222222255
11	793.4	5.833	5.763	27.244	36.253	44.863	34.571	34.569	0.21	78.48	3.28	45.30	0.00			787	222222255
10	992.5	4.835	4.754	27.363	36.422	45.079	34.570	34.569	0.48	94.71	3.32	45.90	0.00			984	222222255
9	1242.2	3.890	3.794	27.476	36.584	45.287	34.583	34.584	0.73	115.06	3.30	45.70	0.00			1231	222222255
8	1491.6	3.279	3.169	27.552	36.693	45.426	34.603	34.601	1.28	127.25	3.15	43.90	0.00			1477	222222255
7	1739.6	2.750	2.625	27.620	36.789	45.549	34.626	34.624	1.66	139.74	3.05	42.70	0.00			1722	222222255
6	1989.2	2.333	2.193	27.671	36.863	45.645	34.644	34.643	2.09	147.50	2.90	41.20	0.00			1968	222222255
5	2236.4	2.055	1.897	27.705	36.913	45.710	34.657	34.656	2.28	155.05	2.85	40.60	0.00			2211	222222255
4	2488.6	1.874	1.697	27.728	36.947	45.754	34.666	34.665	2.46	158.78	2.81	39.90	0.00			2459	222222255
3	2790.2	1.822	1.618	27.737	36.961	45.772	34.671	34.670	2.56	160.60	2.78	39.60	0.00	-0.002		2756	222222225
2	3090.5	1.839	1.606	27.739	36.963	45.775	34.672	34.672	2.56	161.70	2.76	39.50	0.00	0.002		3050	222222225
1	3294.4	1.858	1.604	27.739	36.963	45.775	34.672	34.672	2.56	162.71	2.78	39.50	0.00	-0.001	-0.001	3250	222222222

CRUISE: MW 893 STA: 212 DATE (D/M/Y): 9- 5-89 TIME: 1046 LAT: 9 29.89 N LONG: 87 19.93 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24066E-04 1/S SOUND SPEED= 1494.9 M/S Depth= 3204 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.991	34.346	5.05	27.991	21.908	30.151	38.042	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
1	27.991	34.346	5.05	27.991	21.908	30.151	38.043	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	19.754	34.657	1.64	19.751	24.567	33.028	41.126	0.093	0.1	-346.77	7.547	2258.14	17.358	20.0
30	16.079	34.792	0.47	16.074	25.571	34.152	42.360	0.122	0.2	-227.97	15.617	1518.04	14.232	30.0
40	15.148	34.898	0.87	15.142	25.863	34.475	42.713	0.144	0.2	-71.00	-2.661	319.23	6.526	39.9
50	14.280	34.870	0.69	14.273	26.029	34.673	42.941	0.165	0.3	-44.93	2.211	265.81	5.955	49.9
100	13.574	34.904	0.39	13.560	26.205	34.875	43.167	0.259	1.0	-9.91	-0.580	37.95	2.250	99.7
125	13.299	34.886	0.40	13.282	26.248	34.929	43.231	0.304	1.6	-14.94	-1.195	50.62	2.599	124.6
150	12.992	34.866	0.29	12.972	26.295	34.988	43.302	0.348	2.2	-10.73	-0.640	38.97	2.280	149.5
200	12.464	34.836	0.20	12.437	26.378	35.092	43.425	0.435	3.7	-13.17	-0.792	47.05	2.505	199.2
250	11.879	34.801	0.16	11.846	26.464	35.202	43.558	0.517	5.6	-9.22	-0.393	34.86	2.157	249.0
300	11.154	34.760	0.41	11.117	26.568	35.336	43.719	0.596	7.8	-13.05	-0.735	44.39	2.434	298.7
350	10.540	34.728	0.23	10.498	26.653	35.447	43.855	0.671	10.3	-13.23	-0.615	45.71	2.470	348.4
400	9.902	34.706	0.11	9.855	26.747	35.568	44.002	0.742	13.0	-13.71	-0.303	51.63	2.625	398.1
450	9.180	34.680	0.11	9.130	26.847	35.700	44.163	0.809	15.9	-11.15	-0.475	36.30	2.201	447.8
500	8.553	34.649	0.09	8.500	26.922	35.803	44.293	0.872	19.0	-14.40	-0.596	45.24	2.457	497.5
600	7.440	34.605	0.09	7.381	27.055	35.987	44.524	0.988	25.5	-8.66	-0.232	27.76	1.924	596.8
700	6.668	34.587	0.12	6.602	27.148	36.117	44.689	1.094	32.5	-7.57	-0.125	24.46	1.807	696.0
800	5.960	34.574	0.24	5.888	27.230	36.233	44.838	1.192	40.0	-5.95	-0.131	17.96	1.548	795.2
900	5.422	34.567	0.26	5.345	27.292	36.322	44.951	1.284	47.9	-6.82	-0.026	22.22	1.722	894.3
1000	4.749	34.568	0.38	4.667	27.371	36.435	45.095	1.368	56.1	-5.54	0.081	19.41	1.609	993.4
1200	4.056	34.582	0.77	3.963	27.458	36.557	45.252	1.522	73.4	-3.34	0.065	11.71	1.250	1191.4
1400	3.448	34.599	0.98	3.343	27.532	36.664	45.388	1.661	91.8	-2.93	0.101	10.98	1.211	1389.1
1600	2.946	34.617	1.42	2.830	27.595	36.753	45.503	1.787	111.1	-2.30	0.073	8.48	1.064	1586.7
1800	2.581	34.632	1.75	2.453	27.640	36.818	45.587	1.903	131.0	-1.74	0.073	6.76	0.949	1784.1
2000	2.314	34.644	2.05	2.173	27.672	36.866	45.649	2.010	151.9	-1.32	0.056	5.20	0.833	1981.3
2200	2.047	34.656	2.27	1.892	27.705	36.913	45.710	2.112	173.6	-1.24	0.057	5.05	0.821	2178.3
2400	1.898	34.665	2.45	1.728	27.724	36.942	45.747	2.207	196.1	-0.55	0.028	2.35	0.560	2375.1
2600	1.828	34.669	2.57	1.642	27.734	36.956	45.766	2.301	220.0	-0.27	0.016	1.21	0.402	2571.8
2800	1.818	34.671	2.61	1.614	27.738	36.962	45.773	2.395	245.8	-0.09	0.006	0.41	0.234	2768.3
3000	1.827	34.672	2.60	1.603	27.739	36.964	45.776	2.490	274.0	-0.03	0.001	0.14	0.134	2964.5
3200	1.844	34.672	2.59	1.600	27.740	36.964	45.776	2.587	304.6	-0.01	0.001	0.14	0.000	3160.7
3245	1.849	34.672	2.57	1.600	27.740	36.964	45.776	2.609	311.8	0.00	0.001	0.14	0.000	3204.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	8.5	22.240	22.238	23.833	32.222	40.252	34.580	34.679	3.83	4.53	1.45	24.60		1.444	0.771	8	222222522
23	50.6	14.007	14.000	26.088	34.742	43.019	34.871	34.865	0.96	18.94	2.01	38.60		0.531	0.274	50	222222522
22	74.8	13.746	13.735	26.175	34.838	43.124	34.912	34.914	0.59	19.65	2.15	40.40		0.409	0.219	74	222222522
21	100.2	13.475	13.461	26.225	34.899	43.195	34.903	34.900	0.36	20.75	2.25	41.70		0.341	0.191	99	222222522
20	124.0	13.140	13.123	26.271	34.957	43.266	34.873	34.877	0.22	22.47	2.33	33.24	0.16	0.283	0.153	123	222222222
19	148.4	12.880	12.860	26.313	35.010	43.328	34.860	34.860	0.20	23.58	2.32	33.64	0.06	0.260	0.136	147	222222222
18	174.0	12.648	12.625	26.353	35.059	43.385	34.851	34.848	0.21	24.38	2.37	33.94	0.06	0.233	0.118	172	222222222
17	199.3	12.363	12.337	26.395	35.112	43.450	34.832	34.827	0.15	25.79	2.40	34.57	0.03	0.193	0.105	198	222222222
16	248.0	11.753	11.721	26.491	35.233	43.594	34.805	34.802	0.12	28.21	2.49	34.88	0.02	0.153	0.097	246	222222222
15	297.6	11.040	11.003	26.588	35.361	43.749	34.760	34.754	0.43	29.92	2.45	34.48	0.02	0.133	0.077	295	222222222
14	396.8	9.844	9.798	26.758	35.581	44.017	34.707	34.704	0.07	40.70	2.81	33.89	0.31	0.037	0.028	394	222222222
13	495.8	8.417	8.365	26.938	35.825	44.320	34.643	34.646	0.09	50.17	3.02	37.49	0.01	0.008	-0.003	492	222222222
12	619.6	7.152	7.092	27.090	36.035	44.586	34.598	34.600	0.13	61.66	3.19	41.69	0.01			615	222222255
11	795.0	5.893	5.822	27.229	36.236	44.843	34.562	34.574	0.25	76.27	3.29	44.89	0.01			789	222222255
10	991.9	4.849	4.768	27.359	36.418	45.074	34.568	34.568	0.35	94.60	3.36	46.18	0.02			983	222222255
9	1241.3	3.947	3.851	27.471	36.576	45.276	34.584	34.584	0.80	113.14	3.29	45.39	0.01			1230	222222255
8	1491.9	3.236	3.126	27.560	36.703	45.438	34.607	34.608	1.24	129.46	3.18	43.99	0.01			1478	222222255
7	1739.5	2.688	2.564	27.628	36.800	45.563	34.629	34.627	1.68	141.96	3.02	42.60	0.00			1722	222222255
6	1990.9	2.318	2.177	27.671	36.865	45.647	34.643	34.645	2.04	149.41	2.94	41.38	0.02			1970	222222255
5	2290.8	1.956	1.795	27.716	36.930	45.732	34.661	34.661	2.39	158.08	2.83	40.18	0.02			2265	222222255
4	2590.1	1.829	1.643	27.735	36.957	45.767	34.670	34.668	2.55	161.20	2.80	39.79	0.01			2559	222222255
3	2789.0	1.818	1.614	27.738	36.961	45.773	34.671	34.669	2.59	161.30	2.76	39.58	0.02	0.000		2755	222222255
2	2990.6	1.827	1.604	27.739	36.963	45.775	34.671	34.670	2.57	162.01	2.79	39.59	0.01	-0.001	-0.001	2952	222222222
1	3247.5	1.849	1.600	27.739	36.964	45.776	34.671	34.672	2.58	161.80	2.80	39.58	0.02	0.005	-0.001	3204	222222222

CRUISE: MW 893 STA: 213 DATE (D/M/Y): 9- 5-89 TIME: 1616 LAT: 9 29.11 N LONG: 86 40.38 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24034E-04 1/S SOUND SPEED= 1494.8 M/S Depth= 3144 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	27.853	34.227	4.24	27.853	21.864	30.111	38.007	0.000	0.0	-0.23	0.000	0.00	0.000	0.0
3	27.853	34.227	4.24	27.852	21.864	30.111	38.008	0.018	0.0	-0.47	0.000	0.00	0.000	3.0
20	19.296	34.721	2.01	19.293	24.734	33.209	41.319	0.103	0.1	-567.52	10.755	3648.43	22.079	20.0
30	16.560	34.806	0.44	16.555	25.471	34.034	42.227	0.131	0.2	-240.64	9.582	1481.43	14.069	30.0
40	15.119	34.860	0.40	15.113	25.840	34.454	42.693	0.153	0.2	-39.64	2.719	255.01	5.837	39.9
50	14.778	34.884	0.51	14.771	25.933	34.559	42.810	0.175	0.3	-21.41	1.173	130.99	4.184	49.9
100	13.756	34.905	0.41	13.741	26.168	34.831	43.117	0.273	1.1	-14.13	-0.067	68.75	3.031	99.7
125	13.592	34.902	0.32	13.575	26.200	34.870	43.162	0.319	1.6	-2.47	-0.044	11.62	1.246	124.6
150	13.520	34.897	0.33	13.499	26.213	34.885	43.179	0.365	2.3	-8.74	-0.399	34.83	2.157	149.5
200	13.043	34.878	0.21	13.015	26.296	34.987	43.299	0.456	3.9	-8.63	-0.483	32.84	2.095	199.2
250	12.389	34.826	0.48	12.355	26.386	35.103	43.440	0.543	5.9	-13.09	-0.955	44.12	2.428	249.0
300	11.829	34.796	0.46	11.791	26.471	35.211	43.568	0.626	8.2	-13.19	-0.690	47.61	2.522	298.7
350	11.052	34.753	0.03	11.009	26.582	35.355	43.742	0.706	10.8	-16.91	-0.904	58.21	2.789	348.5
400	10.049	34.701	0.07	10.002	26.718	35.533	43.961	0.779	13.7	-16.23	-0.755	54.90	2.708	398.2
450	9.366	34.670	0.06	9.315	26.809	35.654	44.110	0.848	16.6	-16.61	-0.662	55.35	2.719	447.8
500	8.701	34.646	0.06	8.647	26.897	35.771	44.255	0.912	19.7	-16.34	-0.610	52.71	2.654	497.5
600	7.391	34.604	0.04	7.332	27.060	35.995	44.534	1.029	26.3	-10.06	-0.327	31.18	2.041	596.8
700	6.530	34.577	0.04	6.465	27.158	36.133	44.712	1.134	33.3	-8.18	-0.158	25.78	1.856	696.0
800	5.873	34.571	0.12	5.802	27.239	36.246	44.855	1.231	40.6	-5.41	-0.044	17.37	1.524	795.2
900	5.310	34.567	0.15	5.234	27.305	36.340	44.975	1.321	48.5	-3.87	0.069	14.10	1.373	894.3
1000	4.859	34.570	0.33	4.777	27.360	36.418	45.073	1.407	56.7	-6.18	0.061	21.09	1.679	993.4
1200	4.044	34.582	0.73	3.951	27.459	36.559	45.254	1.560	73.9	-3.29	0.067	11.53	1.241	1191.4
1400	3.447	34.598	1.06	3.342	27.532	36.664	45.388	1.698	92.3	-2.24	0.072	8.27	1.051	1389.2
1600	3.032	34.616	1.48	2.915	27.586	36.740	45.485	1.826	111.7	-2.25	0.083	8.52	1.067	1586.8
1800	2.624	34.631	1.83	2.495	27.636	36.812	45.578	1.943	132.0	-1.78	0.066	6.76	0.950	1784.2
2000	2.308	34.644	2.09	2.167	27.673	36.867	45.650	2.051	152.9	-1.38	0.054	5.35	0.846	1981.4
2200	2.087	34.654	2.25	1.932	27.700	36.906	45.701	2.153	174.7	-1.22	0.052	4.89	0.809	2178.4
2400	1.882	34.665	2.45	1.713	27.725	36.944	45.750	2.249	197.3	-0.68	0.035	2.88	0.620	2375.2
2600	1.819	34.669	2.58	1.633	27.735	36.958	45.768	2.343	221.2	-0.22	0.013	0.96	0.358	2571.8
2800	1.817	34.670	2.59	1.613	27.737	36.961	45.773	2.436	247.0	-0.06	0.003	0.25	0.182	2768.3
3000	1.831	34.671	2.60	1.607	27.738	36.962	45.774	2.532	275.2	-0.02	0.001	0.09	0.107	2964.6
3175	1.846	34.671	2.55	1.604	27.738	36.963	45.775	2.617	301.9	-0.02	0.003	0.09	0.000	3136.2

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	5.1	25.261	25.260	22.960	31.267	39.219	34.598	34.315	4.80	5.24	0.70	15.20		1.407	0.814	5	222222522
23	50.0	14.773	14.765	25.937	34.563	42.814	34.888	34.883	0.47	20.55	2.15	39.10		0.513	0.267	49	222222522
22	99.8	13.838	13.824	26.158	34.818	43.101	34.913	34.905	0.32	22.47	2.20	40.90		0.397	0.200	99	222222522
21	123.9	13.641	13.623	26.196	34.863	43.153	34.909	34.904	0.33	22.67	2.18	41.10		0.364	0.188	123	222222522
20	149.8	13.564	13.543	26.210	34.881	43.174	34.906	34.903	0.30	23.27	2.22	41.30		0.351	0.185	148	222222522
19	172.7	13.383	13.359	26.241	34.919	43.218	34.897	34.893	0.28	23.78	2.22	41.60		0.326	0.179	171	222222522
18	197.8	13.120	13.093	26.287	34.975	43.284	34.886	34.887	0.19	24.58	2.27	42.00		0.288	0.155	196	222222522
17	249.7	12.569	12.535	26.289	35.001	43.331	34.746	34.845	0.18	26.30	2.33	42.90		0.226	0.126	248	222222522
16	297.4	11.909	11.870	26.467	35.204	43.559	34.811	34.810	0.47	28.01	2.29	42.20		0.211	0.109	295	222222522
15	397.3	10.054	10.007	26.698	35.513	43.941	34.676	34.709	0.04	39.39	2.70	41.80		0.035	0.022	394	222222522
14	495.4	8.720	8.666	26.900	35.773	44.256	34.653	34.649	0.04	52.89	2.99	42.20		0.015	0.015	492	222222522
13	595.5	7.351	7.293	27.065	36.001	44.542	34.602	34.603	0.05	62.77	3.13	48.40				591	222222555
12	694.8	6.440	6.376	27.172	36.151	44.734	34.579	34.577	0.05	72.74	3.26	51.30				689	222222555
11	793.9	5.800	5.730	27.246	36.257	44.869	34.569	34.570	0.15	80.90	3.28	53.90				787	222222555
10	993.4	4.724	4.644	27.373	36.438	45.100	34.568	34.577	0.46	98.94	3.28	54.80				985	222222555
9	1239.6	3.781	3.687	27.489	36.603	45.311	34.586	34.586	0.88	117.07	3.24	54.10				1228	222222555
8	1490.6	3.187	3.078	27.569	36.714	45.451	34.613	34.612	1.34	130.87	3.12	52.50				1476	222222555
7	1738.7	2.666	2.542	27.629	36.803	45.567	34.628	34.630	1.76	141.15	2.98	51.10				1721	222222555
6	1988.8	2.287	2.148	27.676	36.870	45.654	34.645	34.645	2.08	149.61	2.89	50.10				1968	222222555
5	2239.5	2.010	1.852	27.709	36.920	45.719	34.658	34.659	2.26	157.27	2.84	49.40				2215	222222555
4	2488.6	1.841	1.664	27.731	36.952	45.761	34.667	34.667	2.40	160.60	2.76	48.80				2459	222222555
3	2739.0	1.815	1.616	27.738	36.962	45.773	34.672	34.670	2.56	161.40	2.75	48.40				2705	222222555
2	2989.8	1.830	1.607	27.739	36.963	45.775	34.672	34.672	2.58	161.70	2.75	48.40		0.001	-0.001	2951	222222522
1	3175.8	1.847	1.605	27.738	36.962	45.774	34.670		2.58	162.71	2.76	48.40		0.001	-0.001	3134	252222522

CRUISE: MW 893 STA: 214 DATE (D/M/Y): 9- 5-89 TIME: 2019 LAT: 9 29.84 N LONG: 86 19.87 W

GRAVITY= 9.7817 M/S CORIOLIS= 0.24064E-04 1/S SOUND SPEED= 1496.0 M/S Depth= 3445 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.933	34.282	4.96	28.933	21.550	29.771	37.643	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
3	28.933	34.282	4.96	28.932	21.550	29.772	37.644	0.019	0.0	-0.48	0.000	0.00	0.000	3.0
20	24.159	34.430	4.16	24.155	23.166	31.504	39.485	0.117	0.1	-659.73	29.218	5054.31	25.970	20.0
30	18.634	34.741	2.13	18.628	24.919	33.415	41.544	0.155	0.2	-320.32	15.731	2165.39	16.999	30.0
40	16.224	34.832	1.19	16.218	25.570	34.145	42.348	0.182	0.3	-75.64	2.653	460.29	7.837	40.0
50	15.537	34.854	0.75	15.530	25.743	34.342	42.567	0.205	0.4	-70.21	3.656	437.99	7.645	49.9
100	13.870	34.905	0.44	13.856	26.145	34.804	43.086	0.306	1.2	-15.09	-0.087	73.33	3.128	99.7
125	13.564	34.904	0.33	13.546	26.208	34.879	43.171	0.352	1.7	-9.78	-0.243	42.69	2.387	124.6
150	13.345	34.897	0.30	13.324	26.248	34.927	43.228	0.398	2.3	-8.39	-0.320	35.69	2.182	149.5
200	12.880	34.873	0.20	12.852	26.325	35.022	43.340	0.487	3.9	-8.88	-0.484	33.73	2.122	199.3
250	12.380	34.846	0.13	12.347	26.403	35.120	43.457	0.573	5.9	-10.74	-0.796	35.82	2.186	249.0
300	11.672	34.785	0.09	11.634	26.492	35.238	43.602	0.655	8.2	-14.24	-0.787	50.26	2.590	298.8
350	10.971	34.747	0.10	10.928	26.592	35.368	43.759	0.734	10.8	-12.03	-0.591	42.21	2.373	348.5
400	10.299	34.727	0.08	10.252	26.696	35.500	43.917	0.807	13.6	-14.22	-0.325	54.80	2.704	398.2
450	9.557	34.695	0.07	9.506	26.797	35.633	44.081	0.877	16.6	-20.52	-1.198	61.92	2.874	447.9
500	8.745	34.650	0.07	8.691	26.893	35.766	44.247	0.941	19.7	-11.88	-0.453	38.35	2.262	497.5
600	7.254	34.603	0.06	7.196	27.079	36.019	44.565	1.057	26.2	-12.76	-0.393	39.25	2.288	596.8
700	6.116	34.575	0.09	6.053	27.210	36.205	44.802	1.158	32.9	-8.76	-0.185	26.37	1.876	696.1
800	5.410	34.567	0.14	5.342	27.292	36.322	44.951	1.249	39.9	-5.22	0.006	17.16	1.513	795.2
900	5.038	34.569	0.32	4.963	27.338	36.387	45.034	1.334	47.3	-3.53	-0.005	11.17	1.221	894.4
1000	4.623	34.574	0.55	4.543	27.389	36.459	45.126	1.416	55.2	-4.13	0.082	14.72	1.402	993.4
1200	3.991	34.585	0.84	3.898	27.466	36.569	45.266	1.567	72.1	-3.21	0.075	11.43	1.235	1191.4
1400	3.401	34.602	1.21	3.297	27.540	36.674	45.400	1.705	90.3	-2.55	0.097	9.69	1.137	1389.2
1600	2.968	34.620	1.57	2.852	27.595	36.752	45.501	1.830	109.5	-2.16	0.071	8.00	1.033	1586.8
1800	2.598	34.633	1.89	2.470	27.639	36.817	45.584	1.945	129.4	-1.48	0.057	5.64	0.868	1784.2
2000	2.322	34.644	2.10	2.181	27.672	36.865	45.648	2.053	150.4	-1.35	0.053	5.25	0.837	1981.4
2200	2.069	34.655	2.23	1.914	27.702	36.910	45.706	2.155	172.2	-1.37	0.061	5.53	0.859	2178.4
2400	1.894	34.664	2.43	1.725	27.724	36.942	45.747	2.251	194.7	-0.54	0.029	2.33	0.557	2375.2
2600	1.834	34.669	2.55	1.648	27.733	36.955	45.765	2.345	218.6	-0.19	0.010	0.83	0.332	2571.8
2800	1.827	34.671	2.59	1.622	27.737	36.960	45.771	2.439	244.6	-0.08	0.004	0.36	0.218	2768.3
3000	1.836	34.671	2.60	1.612	27.738	36.962	45.773	2.534	272.8	-0.04	0.003	0.18	0.155	2964.6
3200	1.851	34.671	2.59	1.607	27.739	36.963	45.775	2.632	303.5	-0.02	0.002	0.10	0.118	3160.7
3400	1.869	34.672	2.54	1.604	27.739	36.964	45.775	2.731	336.9	-0.02	0.002	0.10	0.000	3356.6
3451	1.873	34.672	2.54	1.602	27.739	36.964	45.776	2.756	345.8	-0.02	0.003	0.10	0.000	3406.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	4.1	26.529	26.528	22.377	30.655	38.580	34.347	34.289	5.01	5.74	0.47	2.74	0.06	1.478		4	222222225
23	48.2	14.873	14.866	25.915	34.537	42.784	34.887	34.876	0.54	22.57	2.18	29.58	0.02	0.546	0.309	47	222222222
22	100.9	13.674	13.660	26.191	34.857	43.146	34.912	34.908	0.41	24.38	2.21	31.86	0.04	0.388	0.217	100	222222222
21	125.0	13.366	13.348	26.261	34.939	43.238	34.920	34.901	0.30	25.79	2.27	32.56	0.04	0.320	0.170	124	222222222
20	148.4	13.234	13.213	26.270	34.953	43.258	34.896	34.899	0.22	26.70	2.32	32.96	0.04	0.293	0.152	147	222222222
19	173.4	12.960	12.936	26.315	35.009	43.323	34.882	34.878	0.22	27.71	2.35	33.26	0.04	0.258	0.130	172	222222222
18	198.4	12.825	12.798	26.339	35.038	43.358	34.877	34.871	0.16	28.61	2.38	33.46	0.04	0.243	0.130	197	222222222
17	249.6	12.241	12.208	26.422	35.145	43.487	34.836	34.832	0.19	27.81	2.42	34.11	-0.01	0.194	0.111	248	222222222
16	298.5	11.645	11.607	26.501	35.248	43.613	34.790	34.788	0.15	29.42	2.48	34.81	-0.01	0.151	0.089	296	222222222
15	396.5	10.377	10.329	26.682	35.483	43.897	34.726	34.730	0.05	38.89	2.74	33.22	0.18	0.055	0.036	393	222222222
14	496.5	8.700	8.646	26.898	35.773	44.256	34.647	34.652	0.05	52.09	3.04	32.72	0.68	0.010	0.012	493	222222222
13	594.6	7.180	7.123	27.094	36.038	44.587	34.609	34.600	0.09	65.39	3.25	39.71	-0.01			590	222222255
12	692.3	6.141	6.078	27.210	36.203	44.799	34.578	34.574	0.13	76.37	3.33	43.41	-0.01			687	222222255
11	794.1	5.467	5.399	27.287	36.315	44.941	34.570	34.566	0.17	86.54	3.40	45.11	-0.01			788	222222255
10	992.7	4.617	4.537	27.392	36.462	45.129	34.576	34.573	0.57	99.64	3.34	45.26	0.04			984	222222255
9	1192.7	4.007	3.914	27.465	36.567	45.263	34.585	34.583	0.84	112.13	3.30	44.86	0.04			1182	222222255
8	1390.1	3.447	3.343	27.531	36.663	45.387	34.597	34.601	1.25	124.12	3.19	43.26	0.04			1377	222222255
7	1689.9	2.802	2.681	27.614	36.780	45.537	34.625	34.624	1.68	139.34	3.07	42.05	0.05			1673	222222255
6	1990.4	2.338	2.197	27.671	36.863	45.645	34.645	34.645	2.10	148.40	2.94	40.55	0.05			1969	222222255
5	2291.3	1.954	1.793	27.717	36.931	45.733	34.662	34.659	2.33	158.08	2.88	39.85	0.05			2265	222222255
4	2590.4	1.833	1.647	27.734	36.956	45.765	34.669	34.667	2.52	159.49	2.81	39.35	0.05			2560	222222255
3	2890.3	1.830	1.616	27.738	36.961	45.773	34.671	34.671	2.59	161.50	2.80	39.00	0.00			2854	222222255
2	3191.4	1.850	1.606	27.739	36.964	45.775	34.672	34.671	2.59	161.40	2.79	39.10	0.00	0.001	-0.001	3149	222222222
1	3454.0	1.873	1.602	27.739	36.964	45.776	34.672	34.668	2.59	161.91	2.80	39.00	0.00	0.002	-0.001	3406	222222222

CRUISE: MW 893 STA: 217 DATE (D/M/Y): 10- 5-89 TIME: 0530 LAT: 9 37.23 N LONG: 86 15.75 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24373E-04 1/S SOUND SPEED= 1499.2 M/S Depth= 3957 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.545	33.984	3.81	28.545	21.454	29.688	37.572	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.545	33.984	3.81	28.545	21.454	29.688	37.572	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	26.653	34.032	3.35	26.648	22.102	30.381	38.306	0.125	0.1	-459.71	39.985	4104.86	23.255	20.0
30	21.525	34.541	2.37	21.519	24.004	32.415	40.464	0.172	0.2	-541.02	34.849	4124.44	23.311	30.0
40	17.124	34.754	0.81	17.117	25.299	33.844	42.020	0.204	0.4	-158.82	4.459	989.24	11.416	40.0
50	16.314	34.832	0.76	16.306	25.549	34.121	42.321	0.230	0.5	-59.52	8.227	479.58	7.949	49.9
100	14.193	34.912	0.40	14.179	26.082	34.729	43.000	0.337	1.3	-25.32	0.428	136.97	4.248	99.8
125	13.639	34.907	0.35	13.622	26.195	34.862	43.152	0.384	1.8	-15.51	-0.189	76.78	3.181	124.6
150	13.353	34.897	0.30	13.332	26.247	34.925	43.226	0.430	2.5	-9.90	-0.463	41.36	2.334	149.5
200	12.859	34.872	0.27	12.832	26.328	35.026	43.344	0.519	4.1	-9.83	-0.571	36.98	2.207	199.3
250	12.316	34.830	0.35	12.283	26.403	35.123	43.463	0.605	6.0	-15.49	-1.496	45.53	2.449	249.1
300	11.627	34.783	0.16	11.589	26.499	35.247	43.612	0.687	8.3	-10.30	-0.451	39.11	2.270	298.8
350	11.202	34.759	0.15	11.159	26.560	35.326	43.708	0.766	10.9	-12.85	-0.616	46.41	2.473	348.5
400	10.567	34.738	0.12	10.519	26.657	35.450	43.857	0.841	13.8	-17.51	-0.892	59.72	2.805	398.2
450	9.546	34.692	0.11	9.494	26.797	35.633	44.082	0.911	16.8	-17.77	-1.058	54.31	2.675	447.9
500	8.757	34.653	0.09	8.703	26.894	35.766	44.247	0.975	20.0	-12.01	-0.501	38.56	2.254	497.6
600	7.451	34.603	0.06	7.391	27.051	35.983	44.520	1.093	26.5	-12.05	-0.309	38.83	2.262	596.9
700	6.332	34.579	0.06	6.268	27.186	36.170	44.758	1.196	33.4	-9.29	-0.192	28.75	1.946	696.1
800	5.442	34.567	0.11	5.374	27.288	36.316	44.944	1.289	40.5	-6.55	0.003	22.08	1.706	795.3
900	4.966	34.569	0.25	4.892	27.346	36.398	45.049	1.374	47.8	-3.86	0.011	12.73	1.295	894.4
1000	4.615	34.571	0.42	4.535	27.388	36.458	45.125	1.455	55.7	-3.68	0.040	12.59	1.288	993.5
1200	3.931	34.587	0.83	3.839	27.474	36.580	45.280	1.606	72.6	-2.94	0.086	10.90	1.199	1191.4
1400	3.441	34.602	1.16	3.337	27.536	36.668	45.392	1.743	90.7	-2.73	0.076	9.96	1.146	1389.2
1600	2.960	34.618	1.49	2.844	27.594	36.752	45.501	1.868	109.8	-2.05	0.082	7.95	1.023	1586.8
1800	2.578	34.632	1.85	2.450	27.640	36.818	45.587	1.983	129.8	-1.59	0.065	6.24	0.907	1784.2
2000	2.333	34.644	2.04	2.192	27.671	36.863	45.645	2.091	150.8	-1.48	0.055	5.78	0.873	1981.4
2200	2.063	34.656	2.21	1.908	27.703	36.911	45.707	2.193	172.6	-1.34	0.059	5.47	0.849	2178.4
2400	1.881	34.665	2.44	1.712	27.726	36.944	45.750	2.289	195.1	-0.63	0.033	2.73	0.599	2375.2
2600	1.824	34.669	2.58	1.638	27.735	36.957	45.767	2.382	218.9	-0.21	0.012	0.93	0.351	2571.9
2800	1.820	34.671	2.61	1.615	27.737	36.961	45.773	2.476	244.7	-0.07	0.004	0.33	0.210	2768.3
3000	1.830	34.671	2.61	1.606	27.739	36.963	45.775	2.571	272.9	-0.03	0.001	0.15	0.139	2964.6
3200	1.847	34.672	2.60	1.602	27.739	36.964	45.775	2.668	303.6	-0.02	0.000	0.09	0.111	3160.7
3400	1.862	34.672	2.62	1.597	27.740	36.964	45.777	2.767	336.8	-0.02	0.000	0.08	0.105	3356.7
3600	1.881	34.672	2.61	1.595	27.740	36.965	45.777	2.868	372.8	-0.01	0.000	0.02	0.056	3552.4
3800	1.902	34.672	2.60	1.594	27.740	36.965	45.777	2.971	411.5	0.00	0.000	0.02	0.052	3748.0
3983	1.922	34.672	2.56	1.594	27.740	36.965	45.777	3.066	449.6	0.00	0.001	0.02	0.000	3926.8

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.7	24.333	24.331	22.971	31.307	39.286	34.243	34.222	4.46							9	222555555
23	48.7	15.633	15.625	25.704	34.300	42.523	34.832	34.846	0.83							48	222555555
22	75.6	14.774	14.762	25.940	34.566	42.817	34.890	34.888	0.41							75	222555555
21	98.5	14.207	14.193	26.070	34.717	42.987	34.900	34.912	0.47							97	222555555
20	122.4	13.676	13.658	26.185	34.851	43.140	34.904	34.901	0.27							121	222555555
19	147.8	13.348	13.327	26.247	34.925	43.226	34.896	34.895	0.22							146	222555555
18	173.5	13.071	13.047	26.297	34.987	43.298	34.888	34.884	0.17							172	222555555
17	197.8	12.724	12.697	26.350	35.053	43.377	34.865	34.865	0.14							196	222555555
15	298.9	11.581	11.543	26.506	35.256	43.624	34.782	34.783	0.08							296	222555555
14	394.2	10.553	10.506	26.661	35.454	43.862	34.739	34.743	0.05							391	222555555
13	496.4	8.922	8.868	26.876	35.740	44.214	34.663	34.661	0.03							493	222555555
12	618.9	7.333	7.272	27.077	36.014	44.556	34.615	34.605	0.05							614	222555555
11	793.7	5.522	5.454	27.279	36.303	44.927	34.568	34.569	0.15							787	222555555
10	989.7	4.655	4.576	27.386	36.454	45.119	34.575	34.574	0.56							981	222555555
9	1240.9	3.856	3.761	27.487	36.596	45.300	34.592	34.590	0.98							1230	222555555
8	1490.9	3.181	3.072	27.566	36.711	45.449	34.608	34.608	1.31							1477	222555555
7	1737.1	2.705	2.581	27.625	36.797	45.559	34.628	34.627	1.74							1720	222555555
6	1989.3	2.364	2.222	27.667	36.858	45.638	34.642	34.645	2.04							1968	222555555
5	2386.8	1.893	1.724	27.723	36.941	45.746	34.663	34.666	2.42							2359	222555555
4	2788.1	1.819	1.615	27.737	36.961	45.772	34.670	34.672	2.57							2754	222555555
3	3190.6	1.846	1.602	27.738	36.963	45.775	34.671	34.671	2.59							3148	222555555
2	3591.7	1.880	1.594	27.739	36.964	45.777	34.671	34.672	2.62							3541	222555555
1	3985.1	1.923	1.594	27.739	36.964	45.777	34.671	34.672	2.60							3925	222555555

CRUISE: MW 893 STA: 218 DATE (D/M/Y): 10- 5-89 TIME: 0852 LAT: 9 38.02 N LONG: 86 5.95 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24406E-04 1/S SOUND SPEED= 1496.2 M/S Depth= 0476 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.175	33.867	5.10	28.175	21.488	29.731	37.624	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.175	33.867	5.10	28.175	21.488	29.732	37.624	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	24.778	34.119	4.13	24.774	22.746	31.071	39.040	0.122	0.1	-674.15	69.107	6015.24	28.132	20.0
30	19.218	34.700	2.36	19.213	24.739	33.217	41.329	0.162	0.2	-277.15	17.458	2030.38	16.344	30.0
40	17.735	34.765	1.80	17.729	25.160	33.685	41.841	0.192	0.3	-258.28	10.923	1680.61	14.870	40.0
50	15.581	34.855	1.18	15.573	25.734	34.331	42.555	0.217	0.4	-100.08	5.153	631.68	9.117	49.9
100	14.051	34.896	0.48	14.036	26.100	34.752	43.028	0.318	1.2	-19.39	-0.120	95.58	3.546	99.7
125	13.455	34.891	0.31	13.438	26.220	34.895	43.192	0.365	1.8	-16.28	-0.224	80.74	3.259	124.6
150	13.226	34.884	0.30	13.205	26.263	34.946	43.251	0.411	2.4	-11.68	-0.525	45.42	2.445	149.5
200	12.605	34.851	0.20	12.578	26.362	35.070	43.398	0.498	3.9	-10.07	-0.736	34.41	2.128	199.3
250	12.066	34.804	0.72	12.033	26.431	35.161	43.510	0.582	5.9	-9.87	-0.499	36.87	2.203	249.0
300	11.497	34.782	0.10	11.459	26.522	35.276	43.646	0.663	8.1	-18.30	-0.894	66.58	2.960	298.8
350	10.629	34.738	0.09	10.587	26.646	35.436	43.840	0.738	10.6	-12.80	-0.278	50.91	2.588	348.5
400	10.025	34.717	0.08	9.979	26.735	35.550	43.979	0.810	13.4	-17.90	-1.219	53.15	2.644	398.2
450	9.155	34.664	0.06	9.105	26.839	35.693	44.157	0.877	16.3	-15.11	-0.621	49.87	2.561	447.9
500	8.400	34.640	0.05	8.347	26.939	35.826	44.323	0.939	19.3	-12.14	-0.464	38.86	2.261	497.5
600	7.242	34.603	0.06	7.184	27.080	36.022	44.568	1.053	25.6	-9.56	-0.262	30.54	2.004	596.8
700	6.420	34.584	0.11	6.356	27.178	36.159	44.742	1.156	32.5	-11.18	-0.219	35.25	2.154	696.1
800	5.523	34.570	0.17	5.454	27.281	36.305	44.930	1.248	39.5	-6.00	0.007	20.27	1.633	795.2
900	5.036	34.574	0.46	4.961	27.342	36.391	45.038	1.334	47.0	-3.50	-0.015	11.24	1.216	894.3
1000	4.709	34.576	0.60	4.628	27.382	36.447	45.110	1.416	54.9	-3.51	0.063	12.57	1.286	993.4
1200	4.068	34.587	0.96	3.975	27.460	36.559	45.253	1.568	72.0	-3.51	0.058	12.27	1.271	1191.4
1400	3.440	34.603	1.20	3.336	27.537	36.668	45.393	1.706	90.3	-2.90	0.075	10.51	1.176	1389.2
1600	2.938	34.619	1.54	2.822	27.597	36.756	45.506	1.831	109.4	-2.06	0.076	7.88	1.018	1586.8
1800	2.605	34.632	1.83	2.477	27.638	36.815	45.582	1.947	129.4	-1.55	0.056	5.96	0.886	1784.2
2000	2.353	34.643	2.08	2.211	27.669	36.860	45.641	2.055	150.4	-1.63	0.067	6.47	0.923	1981.4
2200	2.034	34.657	2.30	1.880	27.707	36.916	45.714	2.156	172.0	-1.33	0.056	5.39	0.842	2178.4
2400	1.866	34.666	2.50	1.697	27.728	36.947	45.754	2.251	194.3	-0.59	0.031	2.57	0.582	2375.2
2600	1.821	34.669	2.58	1.635	27.735	36.957	45.768	2.344	218.0	-0.17	0.010	0.76	0.316	2571.8
2800	1.820	34.670	2.61	1.615	27.737	36.961	45.772	2.438	243.9	-0.06	0.004	0.28	0.193	2768.3
3000	1.829	34.671	2.62	1.605	27.738	36.963	45.774	2.533	272.1	-0.04	0.002	0.17	0.148	2964.6
3200	1.844	34.671	2.63	1.600	27.739	36.964	45.776	2.630	302.7	-0.02	0.001	0.08	0.101	3160.7
3400	1.863	34.672	2.62	1.598	27.739	36.964	45.776	2.729	336.0	-0.02	0.001	0.08	0.000	3356.6
3491	1.871	34.672	2.57	1.596	27.740	36.965	45.777	2.775	352.0	-0.02	0.001	0.08	0.000	3445.7

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
24	9.6	27.428	27.426	21.770	30.031	37.939	33.919	33.949	4.89	3.53	0.47	2.56	0.04	1.461	0.785	9	222222222
23	48.6	15.288	15.280	25.786	34.394	42.628	34.838	34.869	1.35	18.24	1.93	25.92	0.68	0.629	0.361	48	222222222
22	74.5	14.270	14.259	26.056	34.700	42.968	34.901	34.900	0.48	21.26	2.20	31.31	0.09	0.457	0.249	74	222222222
21	99.1	13.929	13.915	26.096	34.753	43.034	34.858	34.899	0.33	23.37	2.28	31.80	0.00	0.403	0.220	98	222222222
20	123.9	13.310	13.293	26.247	34.927	43.229	34.887	34.895	0.21	24.68	2.34	32.90	0.00	0.314	0.172	123	222222222
19	149.4	13.031	13.010	26.302	34.993	43.305	34.885	34.881	0.19	25.39	2.37	33.21	-0.01	0.288	0.155	148	222222222
18	173.3	12.641	12.618	26.351	35.058	43.384	34.847	34.850	0.35	25.99	2.34	33.19	0.01			172	222222255
17	198.6	12.514	12.487	26.381	35.093	43.424	34.853	34.850	0.14	27.40	2.43	34.16	0.04	0.215	0.121	197	222222222
16	248.0	11.974	11.942	26.454	35.188	43.540	34.811	34.803	0.35	28.51	2.39	33.96	0.04	0.202	0.110	246	222222222
15	297.2	11.121	11.084	26.539	35.309	43.694	34.716	34.766	0.05	33.65	2.60	34.75	0.05			295	222222255
14	396.9	9.803	9.757	26.778	35.603	44.040	34.724	34.706	0.02	43.02	2.82	34.04	0.26	0.034	0.028	394	222222222
13	494.8	8.313	8.261	26.951	35.843	44.342	34.639	34.640	0.05	55.21	3.08	35.86	0.04			491	222222255
12	595.7	7.211	7.153	27.104	36.046	44.594	34.627	34.599	0.06	64.88	3.22	40.36	0.04	0.003	-0.001	591	222222222
11	694.0	6.345	6.281	27.195	36.179	44.765	34.593	34.584	0.14	74.15	3.28	43.36	0.04			688	222222255
10	794.6	5.547	5.479	27.280	36.303	44.926	34.572	34.572	0.27	85.74	3.35	45.36	0.04			788	222222255
9	993.3	4.694	4.614	27.382	36.448	45.111	34.574	34.578	0.65	99.84	3.31	45.36	0.04			985	222222255
8	1241.6	3.875	3.780	27.483	36.591	45.295	34.590	34.590	0.98	116.06	3.24	44.66	0.04			1230	222222255
7	1490.5	3.170	3.061	27.569	36.715	45.454	34.611	34.611	1.37	132.49	3.16	43.56	0.04			1476	222222255
6	1740.7	2.667	2.543	27.632	36.806	45.570	34.632	34.630	1.81	143.47	3.01	42.16	0.04			1723	222222255
5	1988.8	2.364	2.222	27.668	36.859	45.639	34.644	34.644	2.08	149.92	2.93	41.46	0.04			1968	222222255
4	2390.6	1.866	1.698	27.728	36.947	45.754	34.666	34.667	2.45	160.90	2.84	40.06	0.04			2363	222222255
3	2789.3	1.819	1.615	27.738	36.961	45.773	34.671	34.671	2.60	162.51	2.80	39.66	0.04			2755	222222255
2	3190.8	1.843	1.600	27.739	36.964	45.776	34.671	34.672	2.62	162.51	2.78	39.56	0.04	0.000	-0.001	3148	222222252
1	3492.3	1.871	1.596	27.740	36.964	45.777	34.672	34.671	2.63	162.01	2.79	39.56	0.04	-0.001	-0.001	3444	222222222

CRUISE: MW 893 STA: 219 DATE (D/M/Y): 10- 5-89 TIME: 1143 LAT: 9 42.24 N LONG: 85 59.04 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24583E-04 1/S SOUND SPEED= 1491.9 M/S Depth= 2411 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.106	33.696	5.23	28.106	21.382	29.629	37.525	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.106	33.696	5.23	28.106	21.382	29.629	37.525	0.006	0.0	-0.47	0.000	0.00	0.000	1.0
20	24.934	34.054	4.29	24.930	22.650	30.971	38.938	0.121	0.1	-475.65	36.781	4059.39	23.027	20.0
30	20.792	34.492	2.93	20.787	24.166	32.599	40.669	0.165	0.2	-225.70	32.945	2056.38	16.390	30.0
40	19.029	34.727	2.64	19.022	24.808	33.292	41.410	0.199	0.4	-151.68	8.952	1089.53	11.930	40.0
50	17.058	34.792	1.90	17.050	25.344	33.891	42.068	0.228	0.5	-261.88	9.637	1670.94	14.774	49.9
100	13.942	34.892	0.74	13.927	26.120	34.776	43.056	0.332	1.3	-17.10	0.102	89.33	3.416	99.8
125	13.737	34.905	0.43	13.720	26.173	34.837	43.124	0.379	1.8	-7.68	-0.049	35.63	2.157	124.6
150	13.488	34.902	0.44	13.467	26.223	34.896	43.192	0.426	2.5	-6.88	-0.191	31.52	2.029	149.5
200	12.886	34.871	0.23	12.859	26.322	35.019	43.336	0.515	4.1	-17.61	-1.090	65.34	2.921	199.3
250	12.007	34.811	0.41	11.974	26.448	35.180	43.531	0.600	6.0	-15.37	-0.863	56.06	2.706	249.1
300	11.122	34.763	0.11	11.084	26.576	35.345	43.730	0.679	8.2	-13.85	-0.681	49.86	2.552	298.8
350	10.617	34.750	0.09	10.575	26.658	35.448	43.853	0.753	10.7	-11.91	-0.373	45.24	2.431	348.5
400	9.854	34.711	0.07	9.808	26.759	35.582	44.018	0.823	13.4	-14.92	-0.842	47.57	2.493	398.2
450	9.030	34.661	0.06	8.981	26.856	35.715	44.185	0.890	16.2	-14.43	-0.544	48.64	2.521	447.9
500	8.358	34.638	0.05	8.305	26.944	35.833	44.331	0.952	19.2	-8.99	-0.293	29.95	1.978	497.5
600	7.298	34.604	0.04	7.239	27.074	36.012	44.556	1.066	25.6	-9.31	-0.264	29.94	1.978	596.8
700	6.470	34.585	0.11	6.406	27.173	36.151	44.732	1.169	32.5	-9.92	-0.167	32.42	2.058	696.1
800	5.672	34.572	0.20	5.602	27.265	36.282	44.899	1.263	39.7	-6.91	-0.049	22.65	1.720	795.2
900	5.128	34.574	0.53	5.052	27.332	36.376	45.019	1.350	47.2	-4.04	0.007	13.55	1.330	894.4
1000	4.671	34.575	0.51	4.590	27.384	36.452	45.116	1.433	55.2	-4.06	0.016	13.63	1.334	993.4
1200	4.022	34.591	1.08	3.929	27.468	36.569	45.265	1.585	72.2	-3.67	0.065	12.91	1.298	1191.4
1400	3.341	34.606	1.30	3.238	27.549	36.686	45.415	1.720	90.2	-2.65	0.084	9.93	1.139	1389.2
1600	2.920	34.620	1.62	2.805	27.599	36.759	45.510	1.844	109.0	-1.95	0.077	7.59	0.996	1586.8
1800	2.581	34.634	1.92	2.453	27.641	36.820	45.588	1.959	128.9	-1.65	0.060	6.39	0.914	1784.2
2000	2.345	34.643	2.11	2.203	27.670	36.861	45.643	2.067	149.8	-1.08	0.046	4.39	0.757	1981.4
2200	2.145	34.653	2.24	1.989	27.694	36.898	45.690	2.170	172.0	-1.36	0.058	5.55	0.851	2178.4
2400	1.851	34.667	2.48	1.682	27.729	36.950	45.757	2.267	194.6	-1.23	0.061	5.55	0.000	2375.2
2411	1.851	34.667	2.48	1.681	27.730	36.950	45.758	2.272	195.9	-1.15	0.058	5.55	0.000	2386.0

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
20	10.6	28.043	28.040	21.420	29.669	37.566	33.718	33.714	5.10	0.50	0.30	0.28	0.02	1.555	0.861	10	222222222
19	48.8	16.780	16.772	25.421	33.978	42.164	34.808	34.805	1.94	13.80	1.73	22.29	0.51	0.768	0.435	48	222222222
18	74.2	14.491	14.480	26.010	34.646	42.906	34.902	34.903	0.96	18.14	2.02	28.63	0.47	0.540	0.298	73	222222222
17	100.0	13.923	13.908	26.127	34.784	43.064	34.897	34.897	0.66	19.75	2.13	30.93	0.07	0.459	0.253	99	222222222
16	124.2	13.747	13.729	26.174	34.837	43.123	34.908	34.906	0.34	20.75	2.23	32.38	0.02	0.375	0.206	123	222222222
15	150.0	13.491	13.470	26.224	34.897	43.192	34.904	34.902	0.33	21.46	2.27	32.58	0.02	0.327	0.187	149	222222222
14	172.4	13.200	13.176	26.273	34.957	43.263	34.890	34.895	0.19	22.87	2.34	33.18	0.02	0.292	0.175	171	222222222
13	198.8	12.783	12.756	26.343	35.044	43.365	34.872	34.868	0.10	24.68	2.40	34.00	0.00	0.236	0.134	197	222222222
12	247.5	12.016	11.984	26.447	35.179	43.529	34.812	34.810	0.22	27.20	2.42	34.30	0.00	0.184	0.097	245	222222222
10	396.6	9.902	9.856	26.753	35.574	44.007	34.713	34.715	0.02	40.70	2.80	35.28	0.02	0.045	0.026	393	222222222
9	494.5	8.452	8.400	26.932	35.817	44.311	34.642	34.641	0.02	53.10	3.06	34.57	0.33	0.005	-0.001	491	222222222
8	593.3	7.374	7.316	27.067	36.002	44.543	34.610	34.609	0.05	61.36	3.17	40.30	0.00			589	222222255
7	794.6	5.669	5.600	27.266	36.283	44.900	34.574	34.574	0.26	82.01	3.31	45.10	0.00			788	222222255
6	993.1	4.670	4.590	27.383	36.450	45.115	34.572	34.573	0.53	99.24	3.33	45.70	0.00			985	222222255
5	1290.3	3.659	3.562	27.511	36.630	45.344	34.598	34.594	1.08	119.99	3.23	44.60	0.00			1279	222222255
4	1589.7	2.936	2.822	27.596	36.755	45.505	34.618	34.619		136.62	3.09	42.90	0.00			1574	225222255
3	1887.8	2.479	2.345	27.653	36.837	45.611	34.637	34.638	1.96	145.89	2.96	41.60	0.00			1868	222222255
2	2188.2	2.148	1.993	27.693	36.897	45.689	34.652	34.652	2.23	154.45	2.89	40.80	0.00	0.000	-0.001	2164	222222252
1	2413.6	1.852	1.682	27.730	36.950	45.758	34.668	34.666	2.50	161.20	2.82	39.80	0.00	0.000	-0.001	2386	222222252

CRUISE: MW 893 STA: 220 DATE (D/M/Y): 10- 5-89 TIME: 1359 LAT: 9 46.20 N LONG: 85 52.07 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24748E-04 1/S SOUND SPEED= 1491.5 M/S Depth= 1755 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.493	33.745	5.01	28.493	21.292	29.530	37.417	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.493	33.745	5.01	28.493	21.292	29.530	37.417	0.006	0.0	-0.48	0.000	0.00	0.000	1.0
20	25.782	34.020	4.49	25.778	22.365	30.665	38.611	0.126	0.1	-410.52	31.979	3610.33	21.644	20.0
30	20.615	34.531	2.79	20.609	24.244	32.681	40.755	0.172	0.2	-352.23	34.581	2931.68	19.504	30.0
40	18.301	34.719	2.08	18.295	24.985	33.492	41.632	0.205	0.4	-155.11	9.103	1099.73	11.945	40.0
50	16.899	34.803	1.65	16.891	25.390	33.942	42.125	0.232	0.5	-139.97	7.041	928.27	10.975	49.9
100	13.882	34.908	0.43	13.867	26.144	34.803	43.084	0.336	1.3	-15.31	-0.134	76.06	3.142	99.8
125	13.687	34.903	0.39	13.669	26.182	34.847	43.136	0.383	1.8	-5.86	-0.058	28.94	1.938	124.6
150	13.427	34.895	0.40	13.406	26.230	34.905	43.203	0.429	2.5	-13.10	-0.512	53.99	2.647	149.5
200	12.794	34.852	0.51	12.767	26.325	35.026	43.347	0.518	4.0	-9.95	-0.384	41.65	2.325	199.3
250	12.424	34.843	0.17	12.391	26.392	35.108	43.443	0.604	6.0	-8.90	-0.466	34.19	2.106	249.1
300	11.367	34.775	0.11	11.329	26.540	35.299	43.675	0.687	8.3	-25.17	-1.196	94.22	3.496	298.8
350	10.643	34.756	0.05	10.601	26.657	35.446	43.850	0.762	10.8	-14.97	-0.723	52.84	2.618	348.5
400	9.982	34.718	0.03	9.935	26.743	35.561	43.991	0.833	13.5	-19.83	-1.130	63.42	2.869	398.2
450	8.812	34.662	0.02	8.764	26.891	35.760	44.239	0.898	16.3	-17.51	-0.614	59.12	2.770	447.9
500	8.074	34.632	0.01	8.023	26.981	35.884	44.394	0.958	19.2	-9.19	-0.344	29.36	1.952	497.6
600	7.140	34.600	0.01	7.082	27.092	36.038	44.589	1.070	25.5	-7.29	-0.194	23.80	1.757	596.8
700	6.576	34.587	0.08	6.511	27.160	36.133	44.709	1.173	32.4	-8.68	-0.171	28.21	1.913	696.1
800	5.779	34.576	0.17	5.708	27.255	36.267	44.879	1.269	39.7	-6.98	-0.103	22.42	1.706	795.2
900	5.214	34.571	0.36	5.138	27.319	36.359	44.998	1.358	47.4	-4.76	0.001	16.28	1.454	894.4
1000	4.855	34.575	0.53	4.773	27.364	36.422	45.078	1.442	55.5	-4.46	0.005	14.97	1.394	993.4
1200	3.929	34.590	0.96	3.836	27.477	36.583	45.283	1.595	72.7	-3.26	0.081	12.10	1.253	1191.4
1400	3.381	34.605	1.23	3.277	27.544	36.678	45.406	1.732	90.8	-2.75	0.093	10.56	1.171	1389.2
1600	2.911	34.621	1.62	2.795	27.601	36.761	45.513	1.855	109.7	-2.30	0.080	8.82	1.070	1586.8
1765	2.656	34.631	1.84	2.530	27.632	36.807	45.571	1.950	126.0	-1.04	0.042	8.82	0.000	1749.6

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
22	3.9	28.500	28.499	21.288	29.525	37.412	33.742	33.754	5.03	3.43	0.22	0.19	0.01	1.561	0.837	3	222222222
21	49.7	16.902	16.893	25.394	33.946	42.128	34.809	34.820	1.82	17.63	1.74	23.11	0.59	0.759	0.400	49	222222222
20	75.4	14.261	14.250	26.072	34.716	42.984	34.918	34.907	0.68	22.17	2.09	30.63	0.17	0.494	0.269	74	222222222
19	98.9	13.808	13.794	26.159	34.820	43.104	34.906	34.911	0.35	24.08	2.20	32.28	0.02	0.397	0.220	98	222222222
18	123.6	13.609	13.591	26.200	34.869	43.160	34.906	34.903	0.31	24.99	2.24	32.49	0.01	0.355	0.198	122	222222222
17	150.3	13.377	13.356	26.243	34.921	43.220	34.899	34.892	0.30	26.09	2.26	32.79	0.01	0.318	0.174	149	222222222
16	173.9	13.015	12.991	26.295	34.987	43.299	34.870	34.880	0.43	26.70	2.20	32.59	0.01	0.305	0.177	172	222222222
15	199.1	12.772	12.745	26.334	35.035	43.357	34.857	34.855	0.39	27.40	2.24	33.09	0.01	0.267	0.146	197	222222222
14	248.3	12.438	12.405	26.393	35.108	43.442	34.847	34.845	0.15	29.92	2.39	34.10	0.00	0.218	0.126	246	222222222
13	299.0	11.481	11.443	26.526	35.280	43.651	34.783	34.786	0.17	33.35	2.47	34.90	0.00	0.136	0.066	297	222222222
12	397.3	10.156	10.109	26.723	35.533	43.956	34.730	34.731	0.05	42.21	2.71	35.80	0.00	0.054	0.034	394	222222222
11	495.2	8.213	8.161	26.964	35.860	44.364	34.636	34.637	0.04	55.31	3.01	37.20	0.00			491	222222255
10	593.8	7.194	7.137	27.089	36.032	44.580	34.605	34.603	0.08	63.37	3.16	40.70	0.00			589	222222255
9	695.2	6.597	6.532	27.154	36.126	44.701	34.583	34.589	0.15	69.72	3.21	43.30	0.00			690	222222255
8	793.1	5.794	5.724	27.258	36.269	44.880	34.583	34.581	0.26	81.31	3.25	44.40	0.00			787	222222255
7	892.9	5.236	5.161	27.320	36.359	44.997	34.576	34.576	0.44	88.36	3.26	45.50	0.00			885	222222255
6	991.8	4.882	4.800	27.354	36.411	45.066	34.566	34.574	0.55	95.31	3.26	45.30	0.00			983	222222255
5	1142.1	4.238	4.148	27.438	36.528	45.213	34.582	34.584	0.80	108.51	3.27	45.10	0.00			1132	222222255
4	1289.8	3.799	3.700	27.493	36.606	45.313	34.593	34.594	1.10	117.58	3.17	44.30	0.00			1278	222222255
3	1489.3	3.163	3.054	27.571	36.717	45.456	34.612	34.615	1.40	132.28	3.09	43.30	0.00			1475	222222255
2	1688.3	2.714	2.594	27.625	36.796	45.557	34.629	34.628	1.79	141.45	2.99	42.34	-0.04	0.002	0.003	1672	222222222
1	1765.7	2.658	2.532	27.631	36.805	45.570	34.630		1.83	143.07	3.00	42.04	-0.04	0.000	-0.001	1748	252222252

CRUISE: MW 893 STA: 221 DATE (D/M/Y): 10- 5-89 TIME: 1558 LAT: 9 50.29 N LONG: 85 44.96 W

GRAVITY= 9.7818 M/S CORIOLIS= 0.24919E-04 1/S SOUND SPEED= 1508.8 M/S Depth= 311 Cor Meters

PRES DBAR	TMP IPTS68	SALT PSS78	OXYG ML/L	PTMP IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	DYN-HT DYNAMIC METERS	PE J/M2 10-5	GRD-PT C/DB 10-3	GRD-S 1/DB 10-3	POT-V (m s)-1 10-12	B-V CPH	DEPTH METERS
0	28.923	33.636	4.99	28.923	21.068	29.297	37.176	0.000	0.0	-0.24	0.000	0.00	0.000	0.0
1	28.923	33.636	4.99	28.923	21.068	29.297	37.176	0.007	0.0	-0.48	0.000	0.00	0.000	1.0
20	27.626	33.650	4.99	27.621	21.504	29.764	37.671	0.131	0.1	-409.51	30.894	3728.83	21.920	20.0
30	23.022	34.183	3.40	23.016	23.311	31.683	39.696	0.186	0.3	-462.10	60.076	4302.84	23.547	30.0
40	18.888	34.614	1.57	18.881	24.758	33.247	41.371	0.224	0.4	-215.54	15.626	1620.97	14.453	40.0
50	17.234	34.756	1.21	17.225	25.274	33.816	41.988	0.253	0.5	-116.55	8.791	843.09	10.423	50.0
100	14.419	34.880	0.43	14.404	26.009	34.648	42.911	0.364	1.4	-20.35	0.073	107.94	3.730	99.8
125	13.829	34.885	0.38	13.811	26.138	34.799	43.083	0.413	1.9	-27.78	0.185	146.78	4.349	124.7
150	13.278	34.884	0.34	13.257	26.252	34.933	43.237	0.458	2.6	-7.95	-0.212	39.97	2.270	149.6
200	12.928	34.868	0.27	12.900	26.311	35.007	43.323	0.548	4.2	-4.81	-0.271	18.79	1.556	199.3
250	12.294	34.832	0.24	12.261	26.409	35.130	43.470	0.634	6.1	-16.84	-1.024	61.85	2.823	249.1
291	11.759	34.804	0.22	11.721	26.490	35.233	43.593	0.701	8.0	-9.37	-0.373	61.85	0.000	289.9

BOTL NO.	PRES DBAR	CTDTMP IPTS68	THETA IPTS68	SIG-TH KG/M3	SIG-2 KG/M3	SIG-4 KG/M3	** CTDSAL PSS78	** SALNTY PSS78	** OXYGEN ML/L	** SILCAT UMOL/L	** PHSPHT UMOL/L	** NITRAT UMOL/L	** NITRIT UMOL/L	** CFC-11 PM/KG	** CFC-12 PM/KG	DEPTH METERS	QUALT1
15	7.3	28.626	28.624	21.185	29.420	37.305	33.660	33.666	5.06	0.10	0.23	0.22	-0.02	1.550		7	222222225
14	25.3	24.868	24.862	22.578	30.903	38.872	33.933	33.976	4.58	2.72	0.67	5.71	0.29	1.310		25	222222225
13	50.5	17.697	17.688	25.023	33.552	41.712	34.574	34.727	1.58	14.31	1.82	23.74	0.46	0.814		50	222222225
12	74.7	15.708	15.696	25.727	34.320	42.540	34.883	34.865	1.03	16.93	1.97	27.39	0.51	0.608	0.326	74	222222222
11	98.7	14.434	14.419	25.999	34.637	42.900	34.870	34.881	0.45	21.46	2.18	30.35	0.05	0.446	0.238	98	222222222
10	124.4	13.868	13.850	26.128	34.788	43.070	34.882	34.886	0.35	21.76	2.20	31.58	0.02			123	222222255
9	150.1	13.272	13.251	26.252	34.934	43.238	34.883	34.885	0.29	22.77	2.24	32.70	0.00	0.315	0.163	149	222222222
8	174.0	13.252	13.228	26.256	34.939	43.243	34.882	34.882	0.30	22.77	2.26	32.69	0.01			172	222222255
3	199.8	13.041	13.013	26.291	34.982	43.294	34.871	34.876	0.24	23.58	2.30	33.09	0.01			198	222222255
2	248.3	12.481	12.448	26.383	35.096	43.429	34.845	34.846	0.17	25.49	2.36	34.01	-0.01	0.215	0.115	246	222222222
1	294.9	11.756	11.718	26.488	35.231	43.591	34.800	34.801	0.18	29.52	2.46	34.19	0.01	0.165	0.083	293	222222222

DOCUMENT LIBRARY

March 11, 1991

Distribution List for Technical Report Exchange

Attn: Stella Sanchez-Wade
Documents Section
Scripps Institution of Oceanography
Library, Mail Code C-075C
La Jolla, CA 92093

Hancock Library of Biology &
Oceanography
Alan Hancock Laboratory
University of Southern California
University Park
Los Angeles, CA 90089-0371

Gifts & Exchanges
Library
Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, NS, B2Y 4A2, CANADA

Office of the International
Ice Patrol
c/o Coast Guard R & D Center
Avery Point
Groton, CT 06340

NOAA/EDIS Miami Library Center
4301 Rickenbacker Causeway
Miami, FL 33149

Library
Skidaway Institute of Oceanography
P.O. Box 13687
Savannah, GA 31416

Institute of Geophysics
University of Hawaii
Library Room 252
2525 Correa Road
Honolulu, HI 96822

Marine Resources Information Center
Building E38-320
MIT
Cambridge, MA 02139

Library
Lamont-Doherty Geological
Observatory
Columbia University
Palisades, NY 10964

Library
Serials Department
Oregon State University
Corvallis, OR 97331

Pell Marine Science Library
University of Rhode Island
Narragansett Bay Campus
Narragansett, RI 02882

Working Collection
Texas A&M University
Dept. of Oceanography
College Station, TX 77843

Library
Virginia Institute of Marine Science
Gloucester Point, VA 23062

Fisheries-Oceanography Library
151 Oceanography Teaching Bldg.
University of Washington
Seattle, WA 98195

Library
R.S.M.A.S.
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149

Maury Oceanographic Library
Naval Oceanographic Office
Stennis Space Center
NSTL, MS 39522-5001

Marine Sciences Collection
Mayaguez Campus Library
University of Puerto Rico
Mayaguez, Puerto Rico 00708

Library
Institute of Oceanographic Sciences
Deacon Laboratory
Wormley, Godalming
Surrey GU8 5UB
UNITED KINGDOM

The Librarian
CSIRO Marine Laboratories
G.P.O. Box 1538
Hobart, Tasmania
AUSTRALIA 7001

Library
Proudman Oceanographic Laboratory
Bidston Observatory
Birkenhead
Merseyside L43 7 RA
UNITED KINGDOM

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. WHOI-91-32	2.	3. Recipient's Accession No.

4. Title and Subtitle

Hydrographic Data From the 10°N Transpacific Cruise R/V *Moana Wave* Cruise #89-3, -4, -6

5. Report Date
September, 1991

6.

7. Author(s)
EPIC Voyageurs

8. Performing Organization Rept. No.
WHOI 91-32

9. Performing Organization Name and Address

The Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C) OCE87-16910
(G) OCE88-12576

12. Sponsoring Organization Name and Address

National Science Foundation

13. Type of Report & Period Covered
Technical Report

14.

15. Supplementary Notes

This report should be cited as: Woods Hole Oceanog. Inst. Tech. Rept., WHOI-91-32.

16. Abstract (Limit: 200 words)

A trans-Pacific hydrographic section along approximate latitude 10°N was occupied in February-May, 1989, from the R/V *Moana Wave*. A description of the instrumentation employed and data reduction techniques is given. Listings of the observations and plates of contoured sections of the water property distributions are presented, along with statements of data accuracies and uncertainties.

17. Document Analysis a. Descriptors

1. hydrographic section across 10°N in the Pacific
2. Pacific water mass survey
3. equatorial Pacific circulation

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement

Approved for publication; distribution unlimited.

19. Security Class (This Report)
UNCLASSIFIED

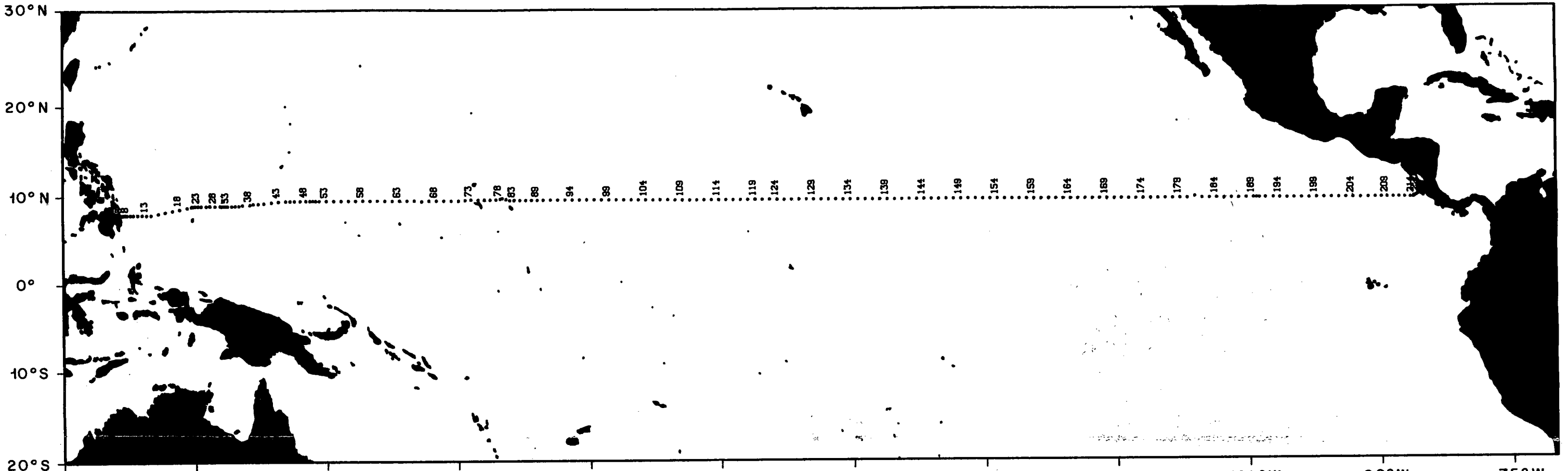
21. No. of Pages
287

20. Security Class (This Page)

22. Price

(See ANSI-Z39.18) *See Instructions on Reverse* OPTIONAL FORM 272 (4-77)

Station Positions



Potential Density Anomaly (kg/m^3)

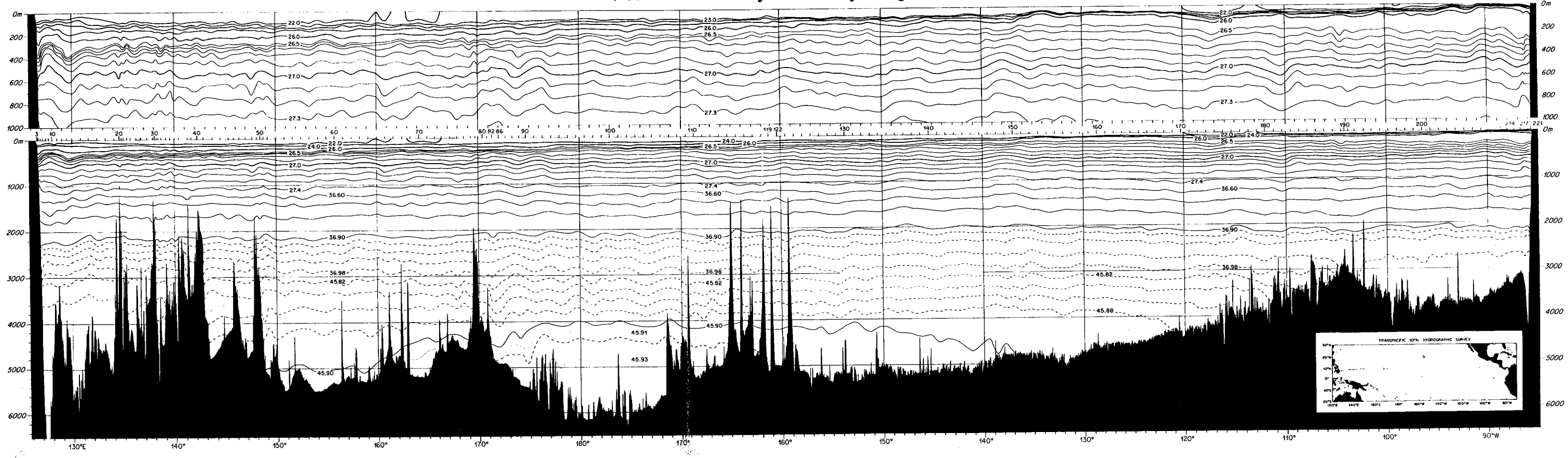
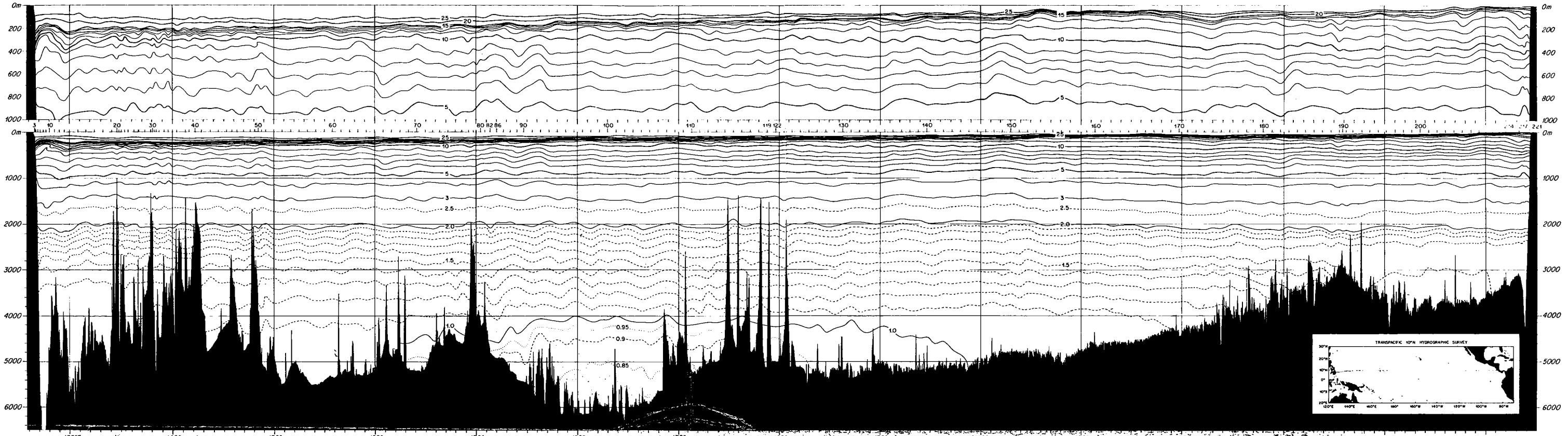


PLATE 1

Potential Temperature (°C)



Salinity

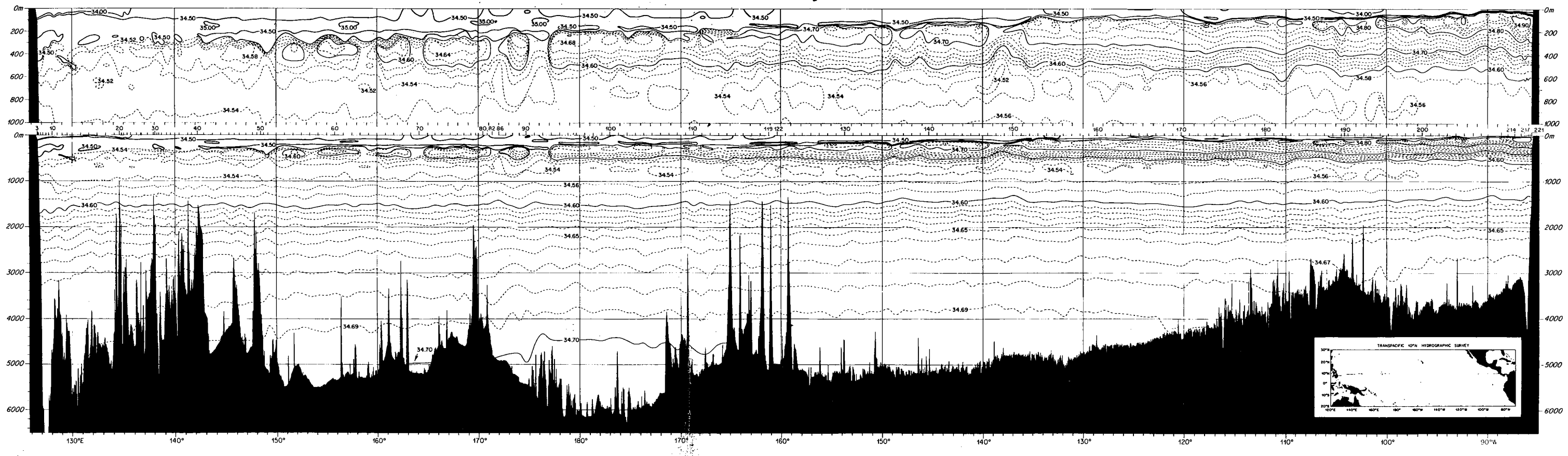
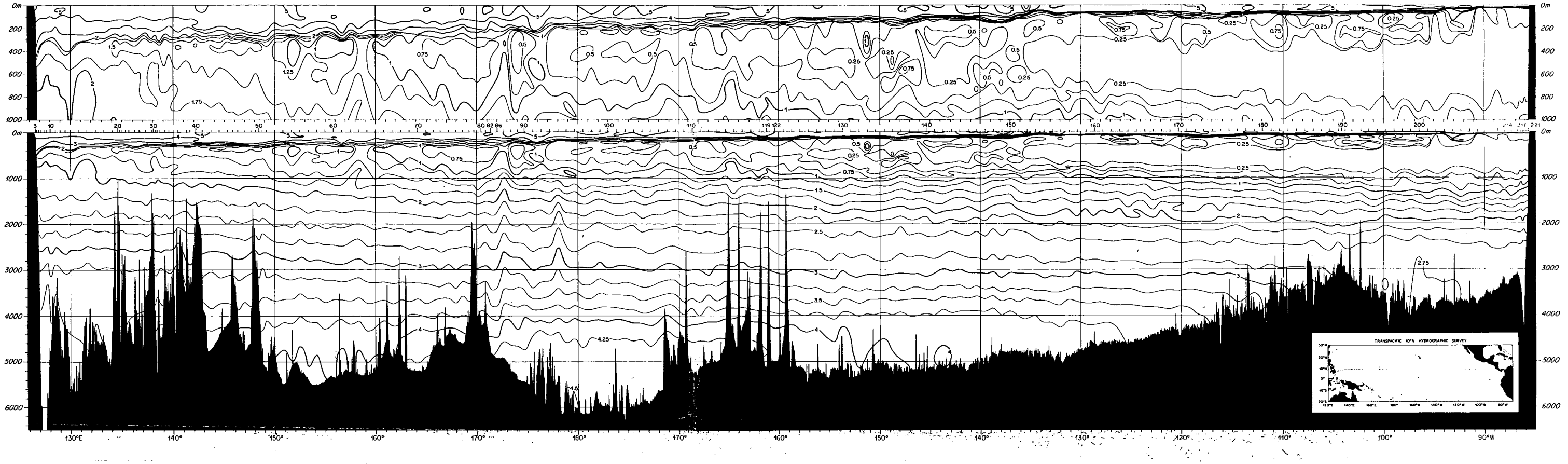


PLATE 2

Oxygen (ml/l)



Silica (μmol/l)

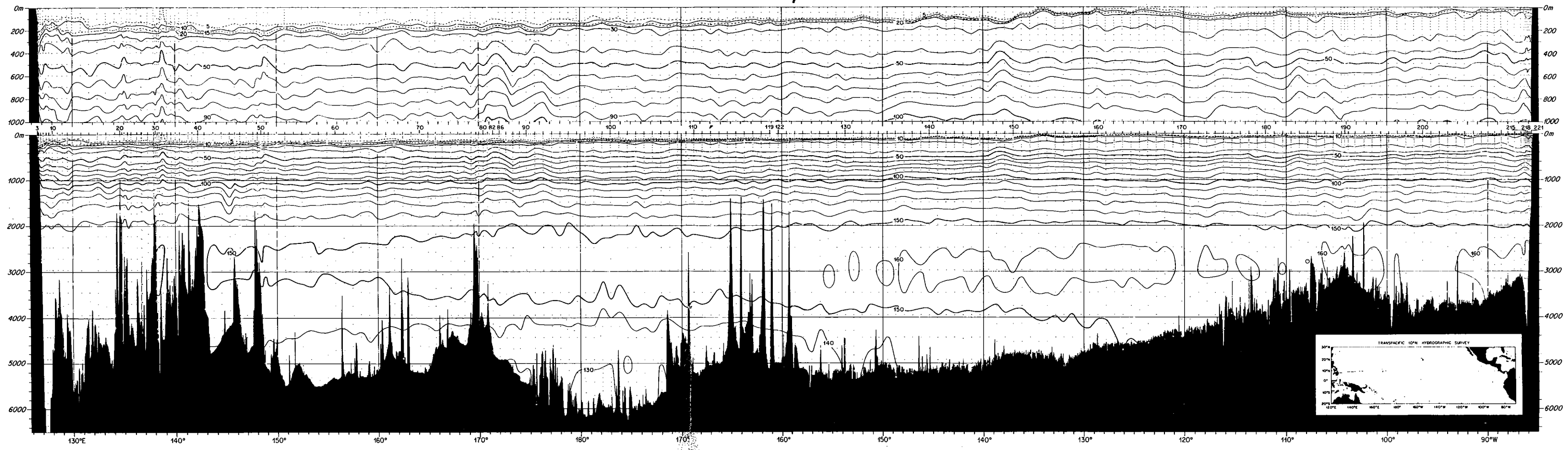
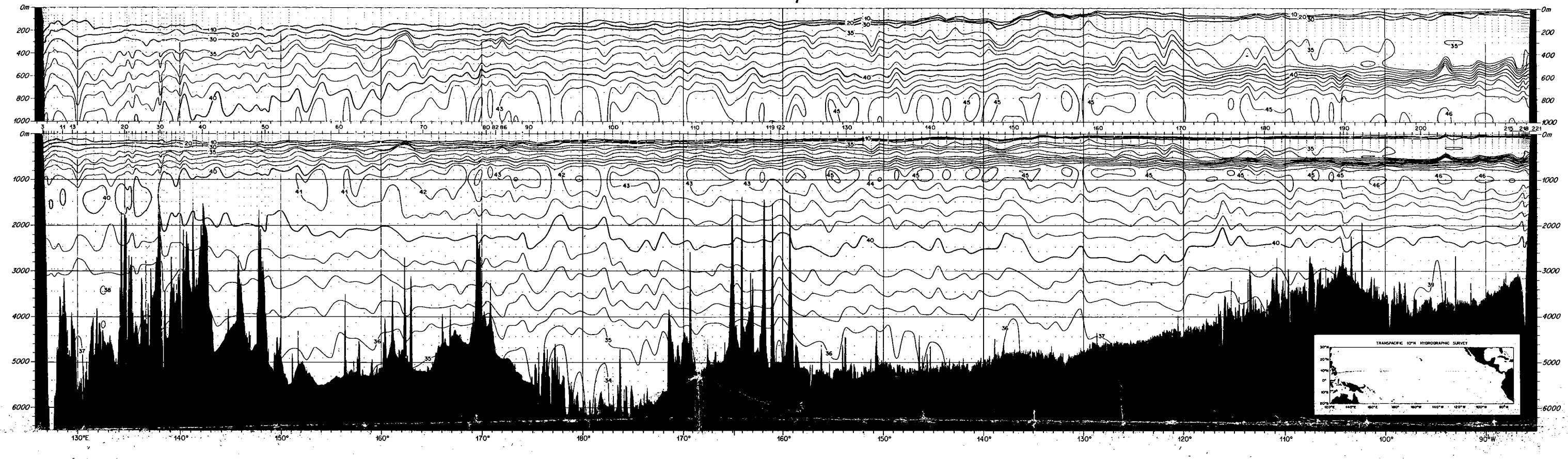


PLATE 3

Nitrate (μmol/l)



Phosphate (μmol/l)

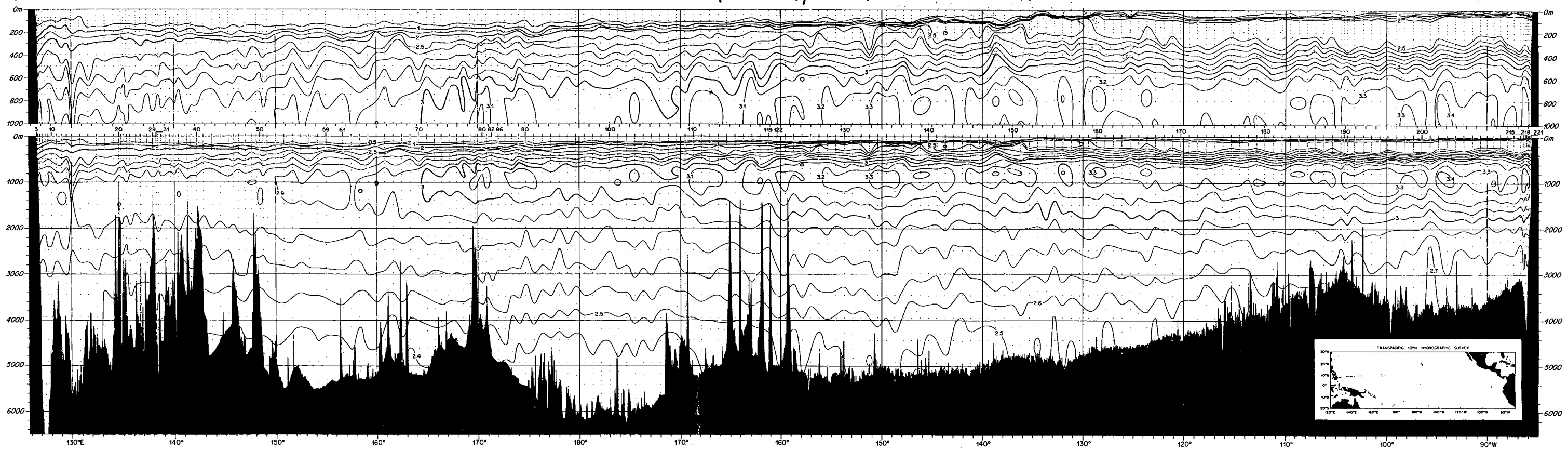


PLATE 4